



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 07:32 AM GMT

PDB ID : 3AOI  
Title : RNA polymerase-Gfh1 complex (Crystal type 2)  
Authors : Tagami, S.; Sekine, S.; Kumarevel, T.; Yamamoto, M.; Yokoyama, S.; RIKEN  
Structural Genomics/Proteomics Initiative (RSGI)  
Deposited on : 2010-09-30  
Resolution : 4.30 Å(reported)

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

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

MolProbity : 4.02b-467  
Mogul : 1.7 (RC4), CSD as536be (2015)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20026688  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk26865

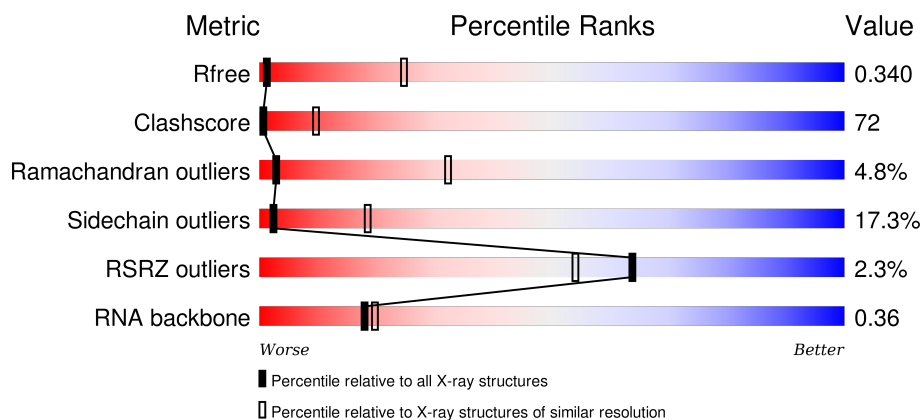
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 4.30 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	91344	1059 (5.00-3.60)
Clashscore	102246	1166 (5.00-3.60)
Ramachandran outliers	100387	1106 (5.00-3.60)
Sidechain outliers	100360	1089 (5.00-3.60)
RSRZ outliers	91569	1062 (5.00-3.60)
RNA backbone	2183	1087 (5.60-2.80)

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

Mol	Chain	Length	Quality of chain
1	A	315	<div> <div>19%</div> <div>44%</div> <div>8%</div> <div>29%</div> </div>
1	B	315	<div> <div>21%</div> <div>42%</div> <div>8%</div> <div>29%</div> </div>
1	F	315	<div> <div>%</div> <div>20%</div> <div>43%</div> <div>9%</div> <div>29%</div> </div>
1	G	315	<div> <div>22%</div> <div>39%</div> <div>10%</div> <div>29%</div> </div>

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Mol	Chain	Length	Quality of chain
1	K	315	
1	L	315	
2	C	1119	
2	H	1119	
2	M	1119	
3	D	1524	
3	I	1524	
3	N	1524	
4	E	99	
4	J	99	
4	O	99	
5	P	27	
5	R	27	
5	T	27	
6	Q	32	
6	S	32	
6	U	32	
7	X	156	
7	Y	156	
7	Z	156	

## 2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 73646 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	B	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	F	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	G	224	Total	C	N	O	S	0	0	0
			1764	1126	307	329	2			
1	K	225	Total	C	N	O	S	0	0	0
			1769	1129	308	330	2			
1	L	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1083	Total	C	N	O	S	0	0	0
			8550	5413	1525	1588	24			
2	H	1080	Total	C	N	O	S	0	0	0
			8524	5395	1521	1584	24			
2	M	1084	Total	C	N	O	S	0	0	0
			8555	5413	1528	1590	24			

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1316	Total	C	N	O	S	0	0	0
			10384	6574	1840	1941	29			
3	I	1262	Total	C	N	O	S	0	0	0
			9965	6314	1765	1858	28			
3	N	1327	Total	C	N	O	S	0	0	0
			10475	6634	1852	1961	28			

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit omega.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			
4	J	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			
4	O	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			

- Molecule 5 is a DNA chain called DNA (5'-D(\*GP\*GP\*TP\*CP\*TP\*GP\*TP\*AP\*TP\*CP\*AP\*CP\*GP\*AP\*GP\*CP\*CP\*A\*CP\*CP\*GP\*CP\*CP\*GP\*CP\*AP\*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	P	7	Total	C	N	O	P	0	0	0
			136	65	25	40	6			
5	R	6	Total	C	N	O	P	0	0	0
			119	57	24	33	5			
5	T	5	Total	C	N	O	P	0	0	0
			98	47	19	28	4			

- Molecule 6 is a RNA chain called RNA (5'-R(\*CP\*CP\*CP\*GP\*GP\*AP\*AP\*GP\*AP\*UP\*CP\*AP\*UP\*CP\*UP\*UP\*CP\*CP\*GP\*GP\*GP\*GP\*GP\*AP\*U\*GP\*CP\*GP\*GP\*CP\*GP\*G)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	Q	7	Total	C	N	O	P	0	0	0
			152	68	31	47	6			
6	S	8	Total	C	N	O	P	0	0	0
			172	77	33	55	7			
6	U	7	Total	C	N	O	P	0	0	0
			152	68	31	47	6			

- Molecule 7 is a protein called Anti-cleavage anti-GreA transcription factor Gfh1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	X	154	Total	C	N	O	S	0	0	0
			1189	730	212	243	4			
7	Y	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			
7	Z	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			

- Molecule 8 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	I	1	Total 1	Zn 1	0	0
8	D	1	Total 1	Zn 1	0	0
8	N	1	Total 1	Zn 1	0	0

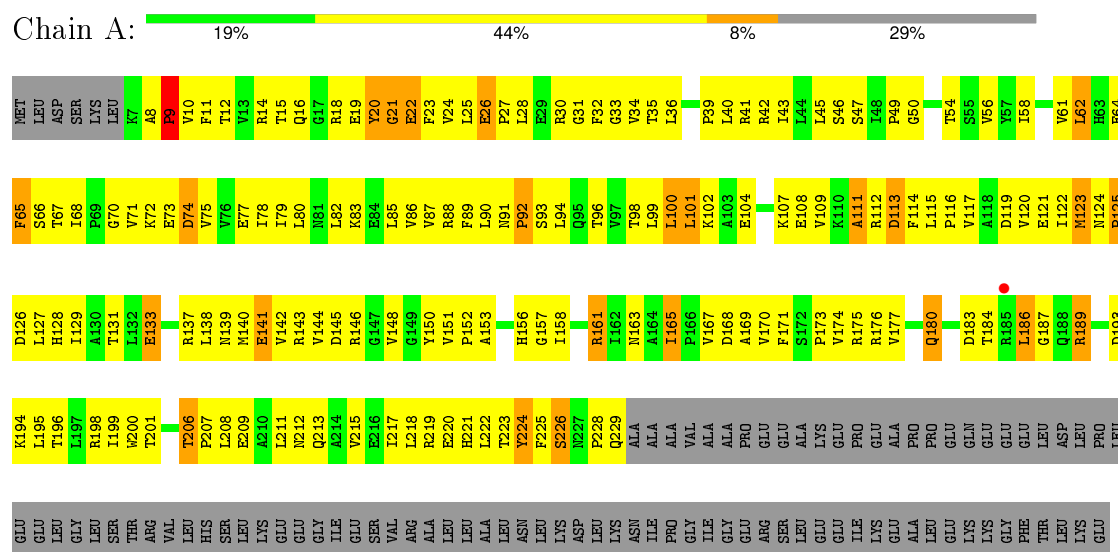
- Molecule 9 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	D	1	Total 1	Mg 1	0	0
9	S	1	Total 1	Mg 1	0	0
9	N	1	Total 1	Mg 1	0	0

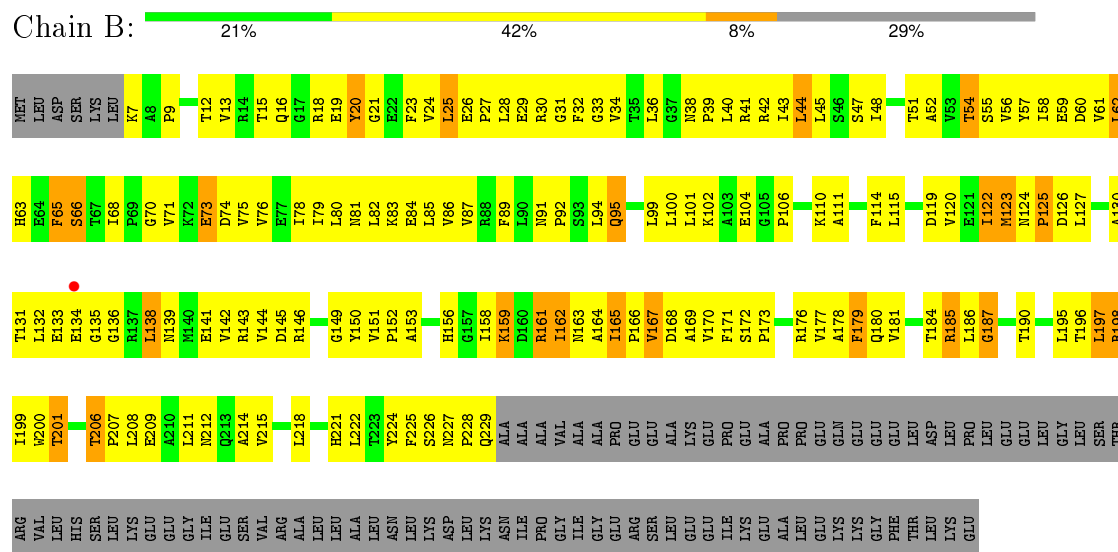
### 3 Residue-property plots

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

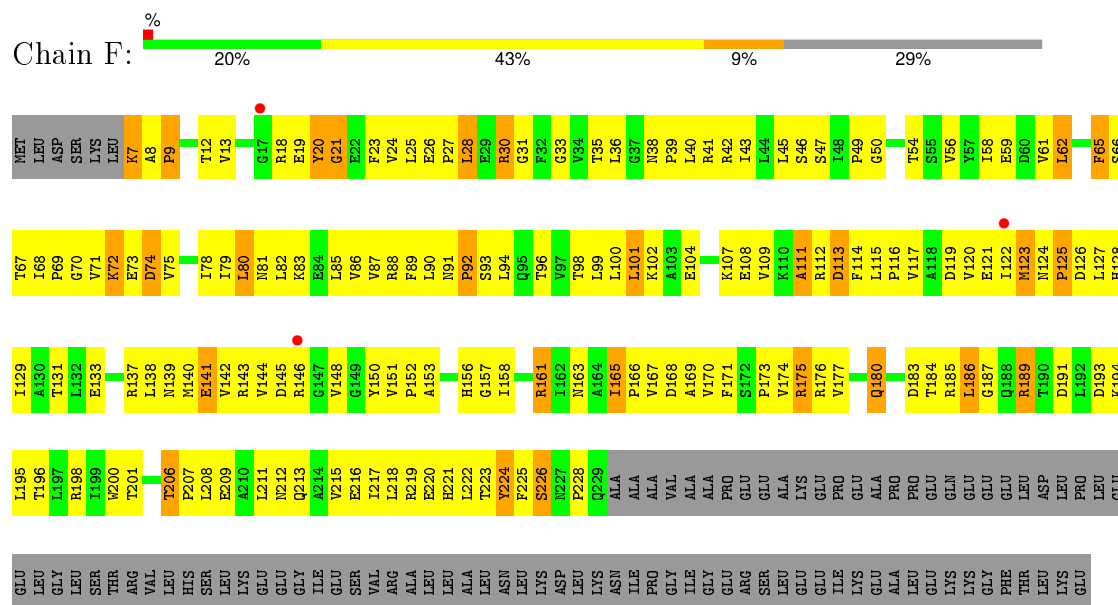
#### • Molecule 1: DNA-directed RNA polymerase subunit alpha



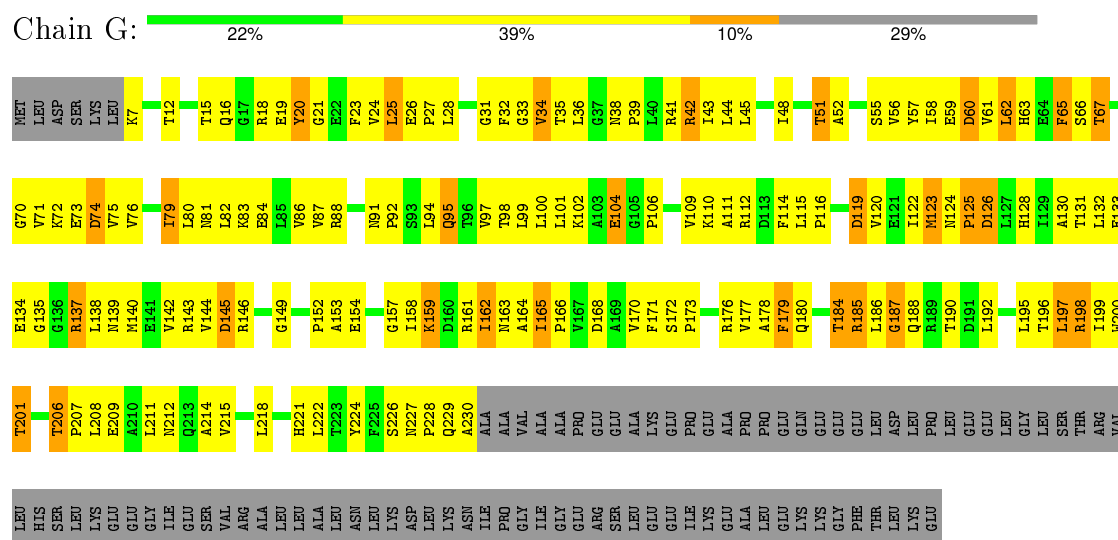
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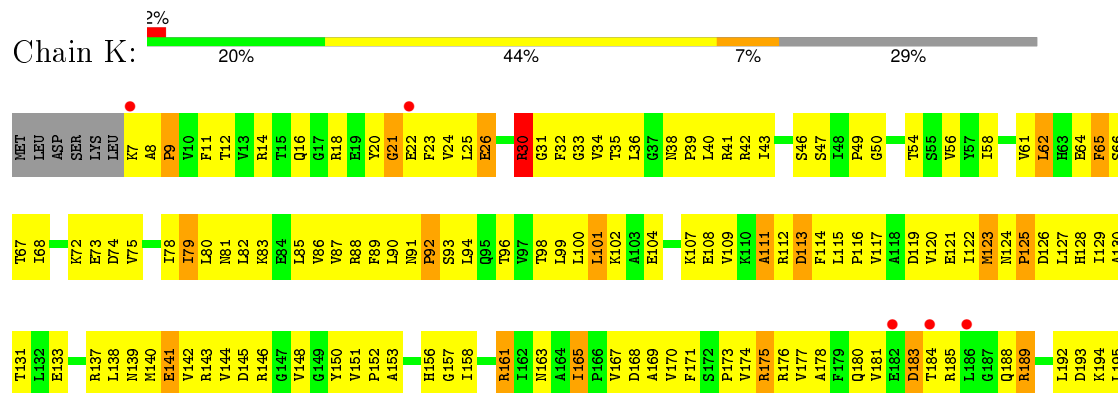
#### • Molecule 1: DNA-directed RNA polymerase subunit alpha



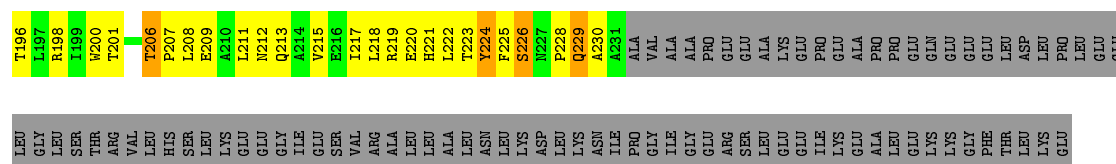
- Molecule 1: DNA-directed RNA polymerase subunit alpha



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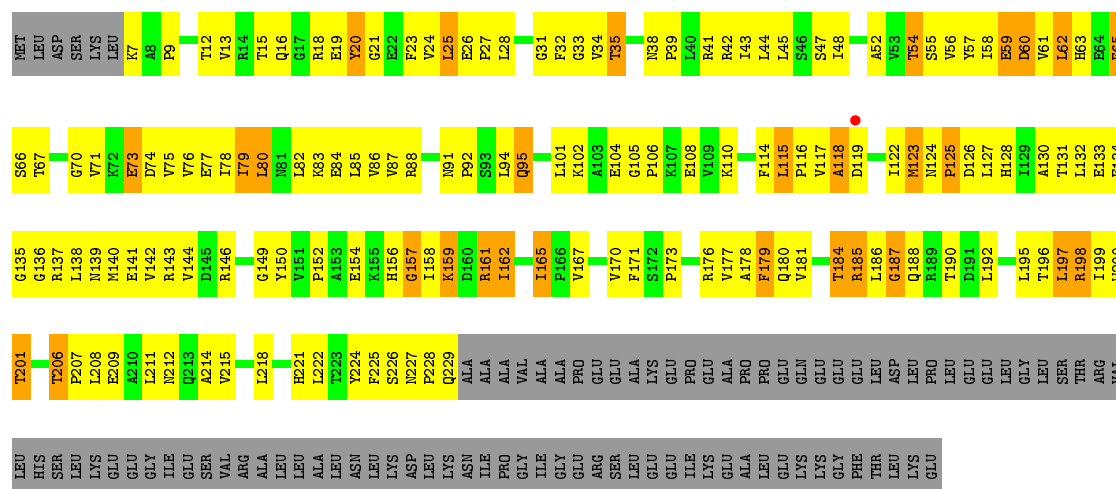






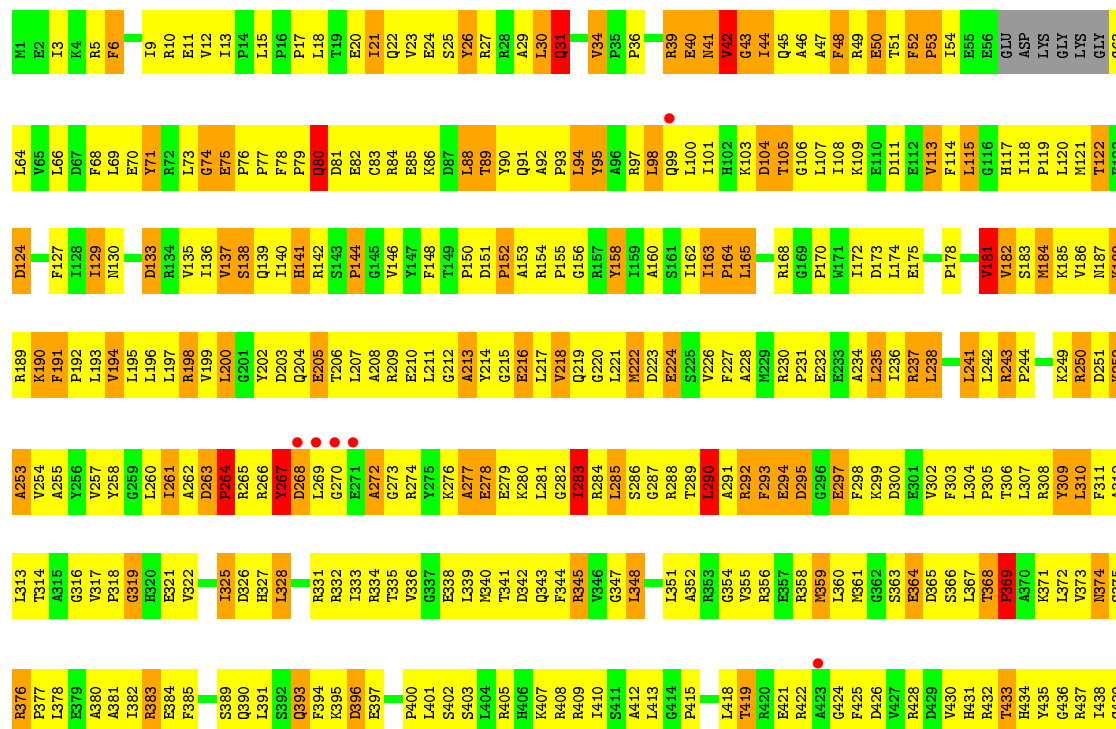
• Molecule 1: DNA-directed RNA polymerase subunit alpha

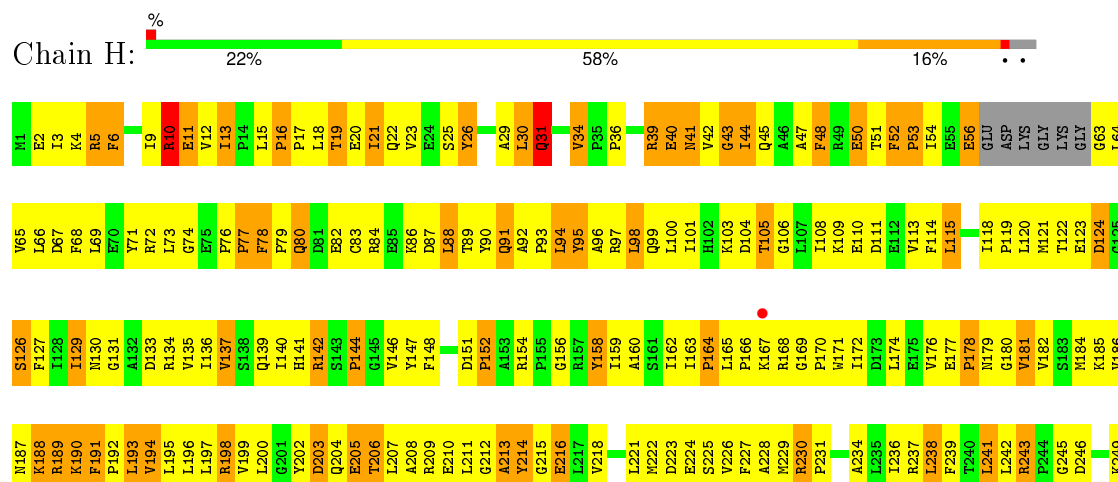
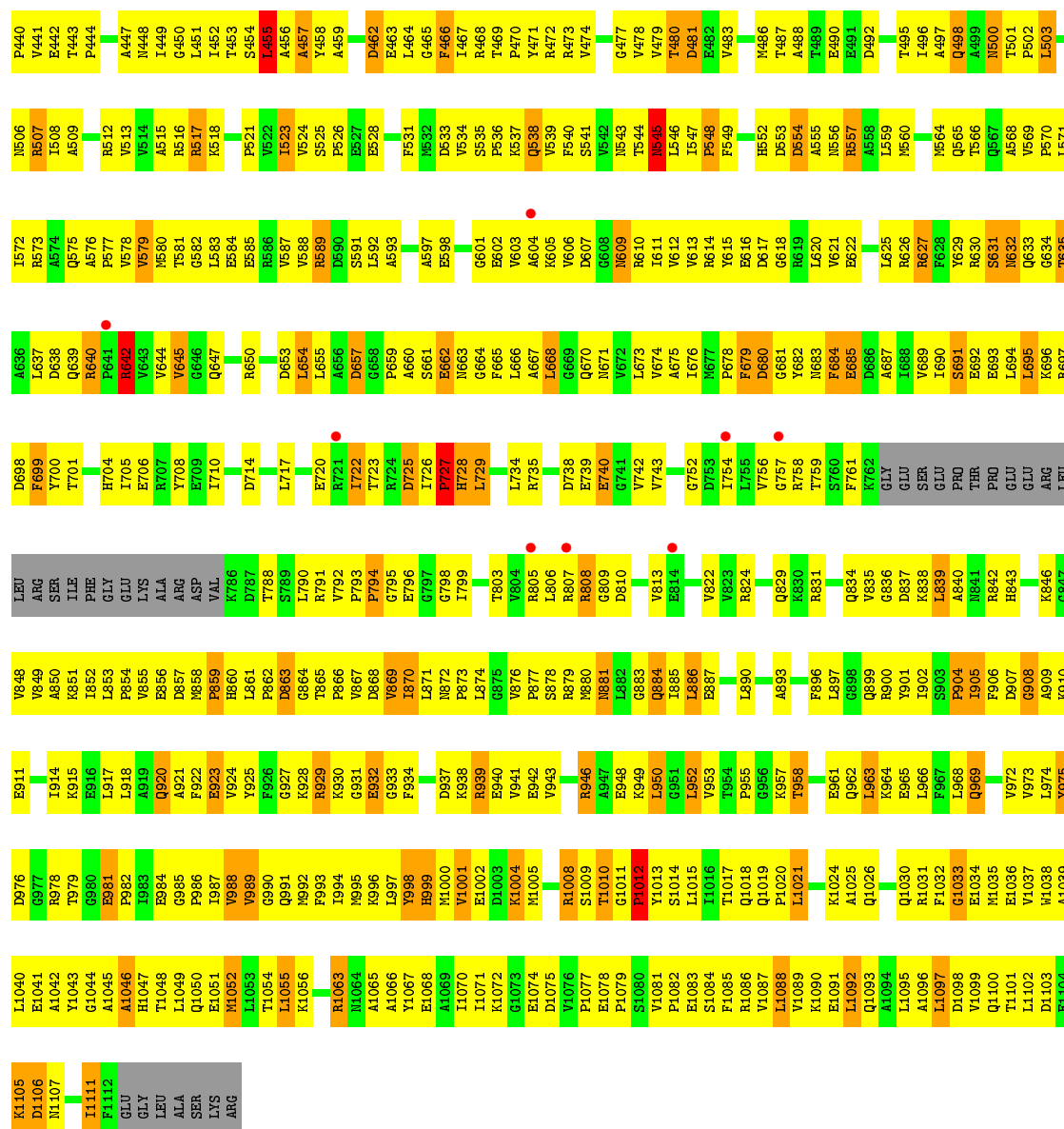
Chain L: 22% 39% 9% 29%



• Molecule 2: DNA-directed RNA polymerase subunit beta

Chain C: 25% 55% 16%



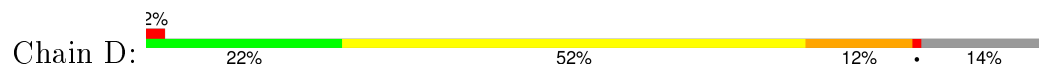




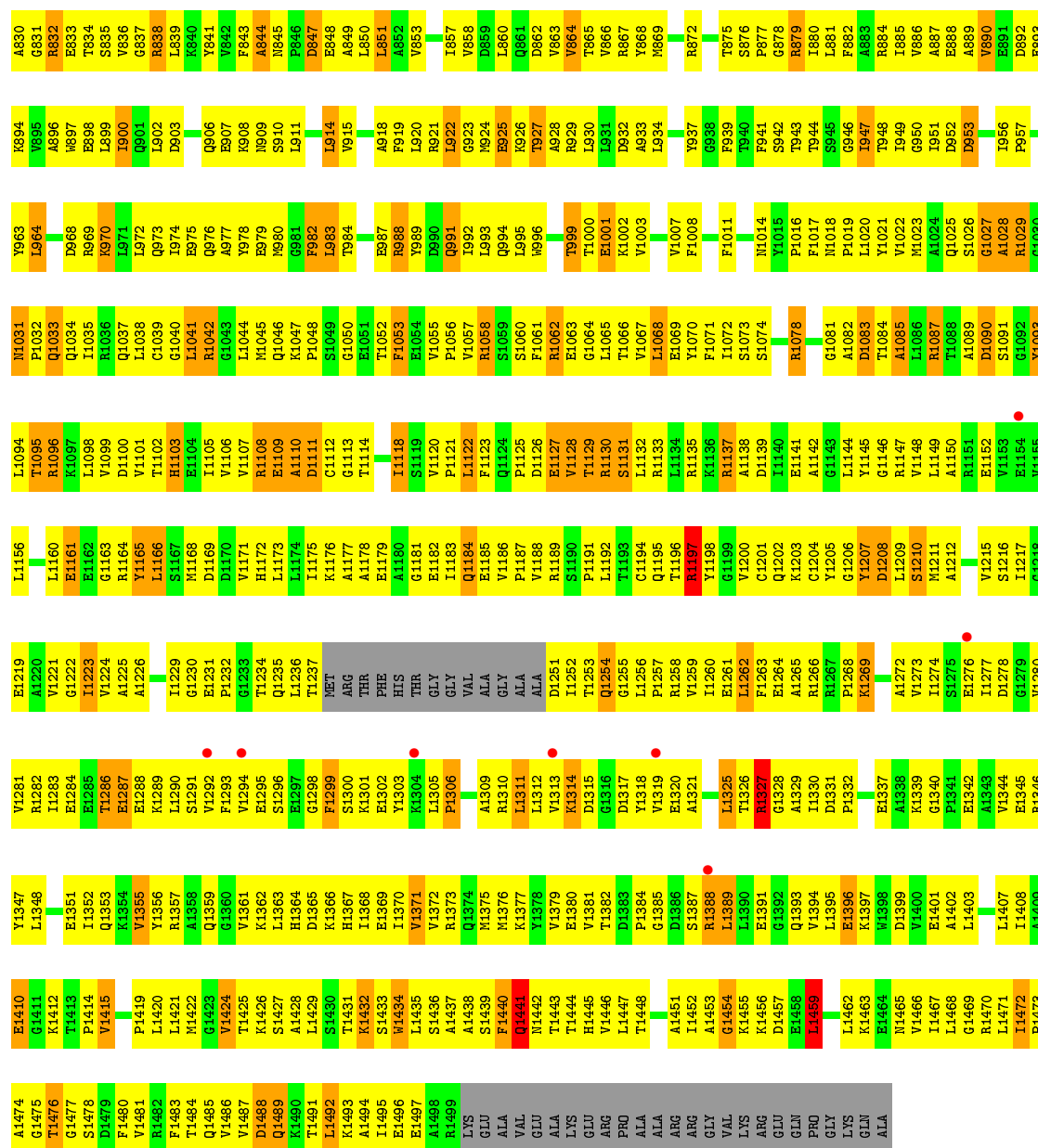
G1028	L966	I902	L839	THR	E692	S631	Q565	A497	H434	R369	R308	P247	K185	D124	G63
G1029	F967	S903	A840	PRU	E693	M632	T566	Q498	Y435	A370	T309	P248	K186	G125	L64
G1030	L968	P904	M841	GLU	L694	Q633	Q567	A499	G436	K371	T310	K249	M187	G126	V65
R1031	Q969	I905	M842	GLU	L695	Q634	A568	N500	R437	L372	F311	R250	K188	F127	L66
F1032	F1032	F906	M843	ARG	K696	T635	V569	T501	I438	V373	T312	D251	R189	I128	D67
G1033	V972	D907	L843	LEU	K697	M636	P570	P502	C439	M374	T313	K252	K190	I129	F68
E1034	R973	G908	K846	LEU	D698	L637	L571	L503	R440	S375	T314	A253	F191	N130	L69
M1035	L974	A909	G847	ARG	F699	D638	I572		V441	K376	T315	V284	P192	G131	E70
E1036	Y975	K910	M848	SER	K910	Q639	R573	N506	A442	P377	G316	A255	L193	A132	Y71
M1037	Q976	E911	M849	ILE	T701	R640	A574	R507	E442	K377	G317	V256	L194	R133	R72
G1038	G977	L918	A850	PHE	S702	P641	Q575	L508	P444	E379	T318	V257	L195	R134	L73
A1039	R978	I914	K851	GLY	I703	M642	A576	A509		A380	G319	Y258	L196	V135	G74
L1040	T979	M704	M852	GLU	H704	M643	P577		A447	A381	G320	G259	L197	I136	E75
E1041	G980	K915	L853	LYS	I705	V644	V578	R512	M448	I382	E321	L260	R198	V137	P76
A1042	P981	E916	M854		E706	V645	V579	V513	G450	R383	V322	I261	V199	S138	F77
Y1043	E982	L917	M855		E707	G646	M580	M514	D323	E384	V323	A262	V199	Q139	F78
G1044	E983	R918	D856		Y708	G647	T581	A515	L451	R385	G324	D264	G201	I140	P79
A1045	E984	Q920	D857			M648	G582	R516	I452	R391	T325	P263	Y202	H141	Q80
E1046	G985	A921	M858			M649	T583	R517	T453	K396	G326	R265	D203	R142	D81
H1047	P986	F922	M859			M650	E584	K518	S454	L391	H327	R266	Q204	S143	E82
T1048	E987	E923	M860				E585		R455	S392	L328	Y267	E205	P144	C83
L1049	P988	R924	L861			D653	R586	P521	A456	Q393	G329	D268	T206	G145	R84
Q1050	P989	Y925	P862			L654	V587	V522	A457	F394	G330	L269	G329	V146	E85
A1051	G990	F926	D863			L655	V588	I523	Y458	K395	T331	G270	A208	Y147	K86
M1052	Q991	G927	G864			M656	R589	M524	A459	R396	G332	E271	R209		D87
L1053	M992	K928	T865			D657	D590	S525	R460	E397	T333	A272	E210	P150	L88
T1054	F993	R929	P866			G658	S591		V461	T398	G334	G273	L211	D151	T89
L1055	P994	K930	M867			P659	L592	E528	T469	N399	T335	R274	G212	P152	Y90
K1056	M995	G931	D868			A660	A593		E463	P400	G336	Y275	A213	A153	Q91
S1057	K996	E932	M869			S661		F531	L464	L401	G337	K276	Y214	R154	A92
D1058	L997	G933	M870			P662	A597	M532	G465	S402	E338	A277	G215	P155	P93
I1059	E998	F934	L871			M663		D533	F466	S403	L339	E278	E216	G156	L94
E1060	H999	D937	M872			G664	D600	V534	L467	L404	G340	E279	L217	G157	A96
G1061	M1000	L873	P873			F665	E601	S535	R468	H405	T342	K280	V218	Y158	R97
G1062	V1001	K938	L874			L666	G802	P536	T469	E406	G343	G282	Q219	A159	L98
R1063	E1002	G875	M875			A667	V603	K537	P470	R407	G344	I283	G220	A160	L98
M1064	D1003	V876	R807			L668	A604	O538	Y471	R408	F344	R284	L221	S161	Q99
A1065	K1004	P877	R808			G669	M605	V539	R472	E409	R345	R284	M222	I182	L100
A1066	M1005	E942	S878			Q670	V606	F540	G475	I410	G346	L285	M223	I163	L101
Y1067	H1006	V943	M879			M671	D607	S541	V474	S411	G347		E224	P164	H102
E1068	A1007	R946	M880			V672	G808	N543	V475	L413	L348	T289	S225	L165	K103
A1069	R1008	A947	L881			L673	G809	N543	G476	L413	G349	L290	V226	P166	D104
I1070	S1009	E948	L882			V674	R610	T544	G477	G414	R350	A291	A228	K167	L107
L1071	T1010	K949	G883			A675	I611	M545	V478	P415	L351	R292	M229	G168	L108
K1072	G1011	V822	Q884			L676	V612	L546	V479	L418	A352	F293	R230	P170	K109
E1073	P1012	V825	L885			M677	E616	P548	D480	T419	R353	E294	P231	M171	D110
E1074	Y1013	L754	P678			F679	E617	F549	E482	T419	R356	D295	E232	I172	D111
D1075	S1014	L755	M678			M680	D617		V483	R422	R357	G296	L235	D173	V113
G1076	T954	V756	V756			G681	L620	H552	V484	A423	R359	E297	I236	L174	V113
P1077	P955	G829	G757			M682	V621	D553	V485	G424	R359	F298	I236	E175	F114
E1078	Q1018	R831	T759			M683	E622	D554	M486	P425	L360	R299	R237	V176	L115
V1081	Q1019	K832	PHI			F684	E622	A555	T487	D426	R361	D300	L238	E177	G116
P1082	L1021	K832	LYS			E685		N556	A488	V427	G362	E301	F239	P178	H117
E1083	G1022	L833	GLY			M686	L625	A558	T489	D428	S363	V302	T240	M179	I118
S1084	G1023	Q834	GLY			A687	R626	A568	E490	M429	E364	F303	L241	G180	P119
F1085	K1024	V835	GLU			L688	R627	L559	E491	V430	D365	L304	L242	V181	L120
R1086	A1025	G836	SER			M689	F628	M560	D492	H431	S366	L304	R243	V182	M121
Q1087	Q1026	R900	GLU			I690	V629	M560	D492	R432	L367	T306	P244	S183	T122
L1088	F1027	E965	PRU			S691	R630	M564	I496	T433	T368	L307		M184	E123

V1089
K1090
E1091
L1092
Q1093
A1094
L1095
A1096
L1097
Q1100
T1101
L1102
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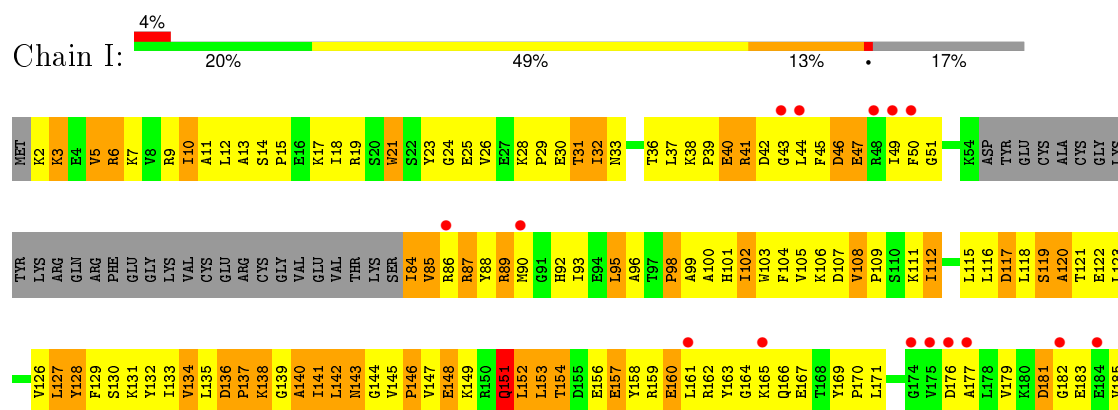
• Molecule 3: DNA-directed RNA polymerase subunit beta'



A766	A767	L770	S771	P772	A773	S774	L778	L779	A780	P781	S782	L783	D784	L785	L786	L788	L789	L790	L791	L792	L793	L794	L795	L796	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	L1046	L1047	L1048	L1049	L1050	L1051	L1052	L1053	L1054	L1055	L1056	L1057	L1058	L1059	L1060	L1061	L1062	L1063	L1064	L1065	L1066	L1067	L1068	L1069	L1070	L1071	L1072	L1073	L1074	L1075	L1076	L1077	L1078	L1079	L1080	L1081	L1082	L1083	L1084	L1085	L1086	L1087	L1088	L1089	L1090	L1091	L1092	L1093	L1094	L1095	L1096	L1097	L1098	L1099	L1100	L1101	L1102	L1103	L1104	L1105	L1106	L1107	L1108	L1109	L1110	L1111	L1112	L1113	L1114	L1115	L1116	L1117	L1118	L1119	L1120	L1121	L1122	L1123	L1124	L1125	L1126	L1127	L1128	L1129	L1130	L1131	L1132	L1133	L1134	L1135	L1136	L1137	L1138	L1139	L1140	L1141	L1142	L1143	L1144	L1145	L1146	L1147	L1148	L1149	L1150	L1151	L1152	L1153	L1154	L1155	L1156	L1157	L1158	L1159	L1160	L1161	L1162	L1163	L1164	L1165	L1166	L1167	L1168	L1169	L1170	L1171	L1172	L1173	L1174	L1175	L1176	L1177	L1178	L1179	L1180	L1181	L1182	L1183	L1184	L1185	L1186	L1187	L1188	L1189	L1190	L1191	L1192	L1193	L1194	L1195	L1196	L1197	L1198	L1199	L1200	L1201	L1202	L1203	L1204	L1205	L1206	L1207	L1208	L1209	L1210	L1211	L1212	L1213	L1214	L1215	L1216	L1217	L1218	L1219	L1220	L1221	L1222	L1223	L1224	L1225	L1226	L1227	L1228	L1229	L1230	L1231	L1232	L1233	L1234	L1235	L1236	L1237	L1238	L1239	L1240	L1241	L1242	L1243	L1244	L1245	L1246	L1247	L1248	L1249	L1250	L1251	L1252	L1253	L1254	L1255	L1256	L1257	L1258	L1259	L1260	L1261	L1262	L1263	L1264	L1265	L1266	L1267	L1268	L1269	L1270	L1271	L1272	L1273	L1274	L1275	L1276	L1277	L1278	L1279	L1280	L1281	L1282	L1283	L1284	L1285	L1286	L1287	L1288	L1289	L1290	L1291	L1292	L1293	L1294	L1295	L1296	L1297	L1298	L1299	L1300	L1301	L1302	L1303	L1304	L1305	L1306	L1307	L1308	L1309	L1310	L1311	L1312	L1313	L1314	L1315	L1316	L1317	L1318	L1319	L1320	L1321	L1322	L1323	L1324	L1325	L1326	L1327	L1328	L1329	L1330	L1331	L1332	L1333	L1334	L1335	L1336	L1337	L1338	L1339	L1340	L1341	L1342	L1343	L1344	L1345	L1346	L1347	L1348	L1349	L1350	L1351	L1352	L1353	L1354	L1355	L1356	L1357	L1358	L1359	L1360	L1361	L1362	L1363	L1364	L1365	L1366	L1367	L1368	L1369	L1370	L1371	L1372	L1373	L1374	L1375	L1376	L1377	L1378	L1379	L1380	L1381	L1382	L1383	L1384	L1385	L1386	L1387	L1388	L1389	L1390	L1391	L1392	L1393	L1394	L1395	L1396	L1397	L1398	L1399	L1400	L1401	L1402	L1403	L1404	L1405	L1406	L1407	L1408	L1409	L1410	L1411	L1412	L1413	L1414	L1415	L1416	L1417	L1418	L1419	L1420	L1421	L1422	L1423	L1424	L1425	L1426	L1427	L1428	L1429	L1430	L1431	L1432	L1433	L1434	L1435	L1436	L1437	L1438	L1439	L1440	L1441	L1442	L1443	L1444	L1445	L1446	L1447	L1448	L1449	L1450	L1451	L1452	L1453	L1454	L1455	L1456	L1457	L1458	L1459	L1460	L1461	L1462	L1463	L1464	L1465	L1466	L1467	L1468	L1469	L1470	L1471	L1472	L1473	L1474	L1475	L1476	L1477	L1478	L1479	L1480	L1481	L1482	L1483	L1484	L1485	L1486	L1487	L1488	L1489	L1490	L1491	L1492	L1493	L1494	L1495	L1496	L1497	L1498	L1499	L1500	L1501	L1502	L1503	L1504	L1505	L1506	L1507	L1508	L1509	L1510	L1511	L1512	L1513	L1514	L1515	L1516	L1517	L1518	L1519	L1520	L1521	L1522	L1523	L1524	L1525	L1526	L1527	L1528	L1529	L1530	L1531	L1532	L1533	L1534	L1535	L1536	L1537	L1538	L1539	L1540	L1541	L1542	L1543	L1544	L1545	L1546	L1547	L1548	L1549	L1550	L1551	L1552	L1553	L1554	L1555	L1556	L1557	L1558	L1559	L1560	L1561	L1562	L1563	L1564	L1565	L1566	L1567	L1568	L1569	L1570	L1571	L1572	L1573	L1574	L1575	L1576	L1577	L1578	L1579	L1580	L1581	L1582	L1583	L1584	L1585	L1586	L1587	L1588	L1589	L1590	L1591	L1592	L1593	L1594	L1595	L1596	L1597	L1598	L1599	L1600	L1601	L1602	L1603	L1604	L1605	L1606	L1607	L1608	L1609	L1610	L1611	L1612	L1613	L1614	L1615	L1616	L1617	L1618	L1619	L1620	L1621	L1622	L1623	L1624	L1625	L1626	L1627	L1628	L1629	L1630	L1631	L1632	L1633	L1634	L1635	L1636	L1637	L1638	L1639	L1640	L1641	L1642	L1643	L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• Molecule 3: DNA-directed RNA polymerase subunit beta'

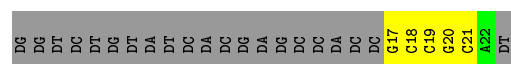






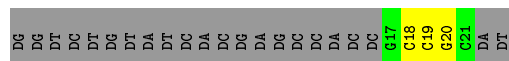






- Molecule 5: DNA (5'-D(\*GP\*GP\*TP\*CP\*TP\*GP\*TP\*AP\*TP\*CP\*AP\*CP\*GP\*AP\*GP\*CP\*CP\*A\*CP\*CP\*GP\*CP\*CP\*GP\*CP\*AP\*T)-3')

Chain T: 



- Molecule 6: RNA (5'-R(\*CP\*CP\*CP\*GP\*GP\*AP\*AP\*GP\*AP\*UP\*CP\*AP\*UP\*CP\*UP\*UP\*CP\*CP\*GP\*GP\*GP\*GP\*GP\*AP\*U\*GP\*CP\*GP\*GP\*CP\*GP\*G)-3')

Chain Q: 



- Molecule 6: RNA (5'-R(\*CP\*CP\*CP\*GP\*GP\*AP\*AP\*GP\*AP\*UP\*CP\*AP\*UP\*CP\*UP\*UP\*CP\*CP\*GP\*GP\*GP\*GP\*GP\*AP\*U\*GP\*CP\*GP\*GP\*CP\*GP\*G)-3')

Chain S: 



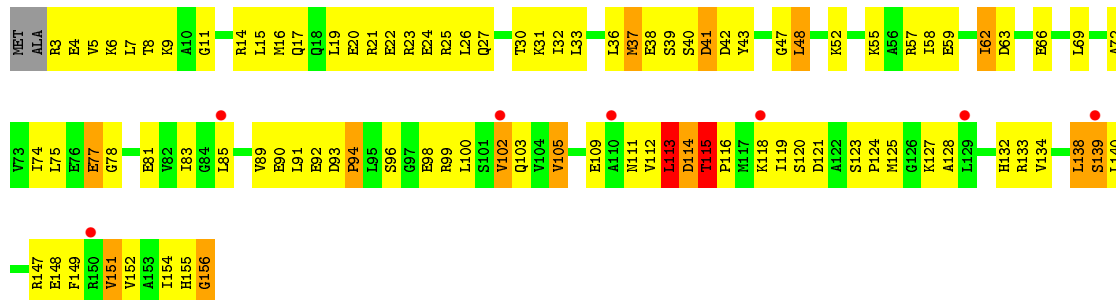
- Molecule 6: RNA (5'-R(\*CP\*CP\*CP\*GP\*GP\*AP\*AP\*GP\*AP\*UP\*CP\*AP\*UP\*CP\*UP\*UP\*CP\*CP\*GP\*GP\*GP\*GP\*GP\*AP\*U\*GP\*CP\*GP\*GP\*CP\*GP\*G)-3')

Chain U: 



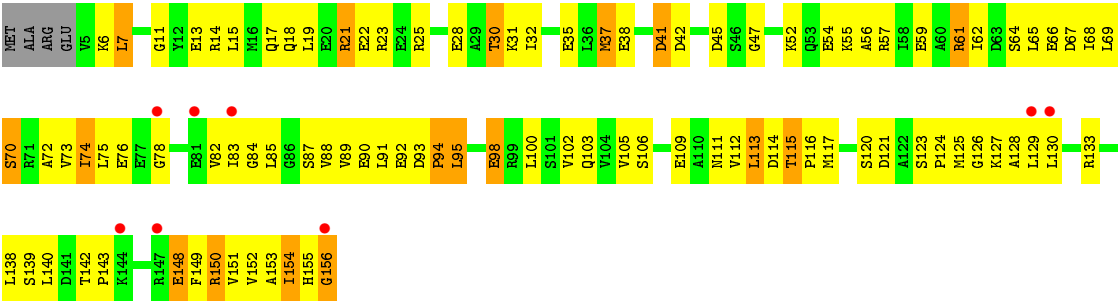
- Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1

Chain X: 

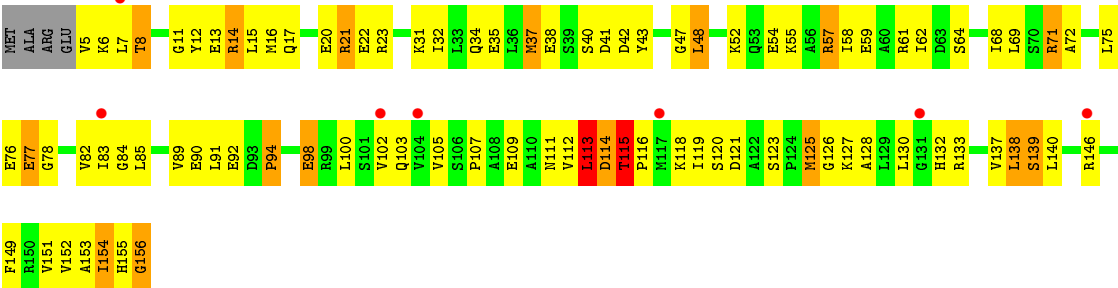


- Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1

Chain Y: 



● Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	189.23Å 264.51Å 193.93Å 90.00° 116.68° 90.00°	Depositor
Resolution (Å)	47.57 – 4.30 47.57 – 4.30	Depositor EDS
% Data completeness (in resolution range)	97.6 (47.57-4.30) 97.7 (47.57-4.30)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.68 (at 4.29Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, $R_{free}$	0.317 , 0.338 0.320 , 0.340	Depositor DCC
$R_{free}$ test set	3392 reflections (3.01%)	DCC
Wilson B-factor (Å <sup>2</sup> )	128.7	Xtriage
Anisotropy	0.299	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.26 , 107.1	EDS
Estimated twinning fraction	0.054 for l,-k,h	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.24$	Xtriage
Outliers	0 of 112834 reflections	Xtriage
$F_o, F_c$ correlation	0.81	EDS
Total number of atoms	73646	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	160.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.76% of the height of the origin peak. No significant pseudotranslation is detected.*

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

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

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 5$	RMSZ	# $ Z  > 5$
1	A	0.48	0/1791	0.76	0/2436
1	B	0.47	0/1791	0.71	1/2436 (0.0%)
1	F	0.48	0/1791	0.75	0/2436
1	G	0.47	0/1796	0.70	1/2443 (0.0%)
1	K	0.50	0/1801	0.76	0/2450
1	L	0.48	0/1791	0.70	1/2436 (0.0%)
2	C	0.49	0/8713	0.78	5/11785 (0.0%)
2	H	0.51	0/8686	0.78	3/11750 (0.0%)
2	M	0.51	0/8717	0.81	6/11792 (0.1%)
3	D	0.50	0/10559	0.77	5/14272 (0.0%)
3	I	0.50	0/10131	0.79	6/13685 (0.0%)
3	N	0.49	0/10653	0.79	8/14403 (0.1%)
4	E	0.47	0/768	0.72	1/1035 (0.1%)
4	J	0.47	0/768	0.73	1/1035 (0.1%)
4	O	0.49	0/768	0.77	1/1035 (0.1%)
5	P	0.89	0/151	1.70	3/230 (1.3%)
5	R	0.81	0/133	1.04	0/203
5	T	0.84	0/109	0.89	0/166
6	Q	1.05	0/170	1.04	0/265
6	S	1.02	0/192	0.92	0/299
6	U	0.94	0/170	0.97	2/265 (0.8%)
7	X	0.56	1/1198 (0.1%)	0.70	1/1608 (0.1%)
7	Y	0.64	1/1178 (0.1%)	0.66	0/1582
7	Z	0.65	1/1178 (0.1%)	0.68	1/1582 (0.1%)
All	All	0.51	3/75003 (0.0%)	0.78	46/101629 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	5
2	H	0	1
2	M	0	3
3	D	0	2
3	I	0	4
3	N	0	5
6	Q	0	1
6	S	0	1
All	All	0	22

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Z	156	GLY	C-OXT	16.27	1.54	1.23
7	Y	156	GLY	C-OXT	16.19	1.54	1.23
7	X	156	GLY	C-OXT	11.06	1.44	1.23

All (46) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	20	DG	N9-C1'-C2'	9.98	131.56	112.60
5	P	20	DG	O4'-C1'-C2'	8.43	112.64	105.90
3	I	1209	LEU	N-CA-C	-8.04	89.28	111.00
3	N	1209	LEU	N-CA-C	-7.97	89.49	111.00
3	N	142	LEU	CA-CB-CG	7.29	132.07	115.30
2	C	163	ILE	C-N-CD	-6.96	105.28	120.60
3	N	1314	LYS	CD-CE-NZ	-6.86	95.93	111.70
3	I	1314	LYS	CD-CE-NZ	-6.85	95.94	111.70
3	D	1314	LYS	CD-CE-NZ	-6.81	96.03	111.70
3	D	28	LYS	C-N-CD	-6.61	106.06	120.60
5	P	19	DC	O4'-C1'-N1	6.48	112.54	108.00
2	M	795	GLY	N-CA-C	-6.31	97.32	113.10
3	N	143	ASN	N-CA-C	-6.28	94.06	111.00
2	M	243	ARG	C-N-CD	-6.26	106.82	120.60
2	C	455	LEU	CA-CB-CG	6.15	129.46	115.30
7	Z	113	LEU	CA-CB-CG	6.14	129.43	115.30
7	X	113	LEU	CA-CB-CG	6.14	129.42	115.30
2	H	455	LEU	CA-CB-CG	6.10	129.32	115.30
2	M	455	LEU	CA-CB-CG	6.10	129.33	115.30
3	N	211	VAL	CB-CA-C	-5.91	100.18	111.40
2	C	795	GLY	N-CA-C	-5.88	98.41	113.10
4	J	49	GLN	N-CA-C	5.84	126.77	111.00
2	M	372	LEU	CA-CB-CG	5.84	128.72	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	795	GLY	N-CA-C	-5.83	98.53	113.10
3	N	1110	ALA	N-CA-C	-5.82	95.29	111.00
3	I	46	ASP	O-C-N	-5.69	113.60	122.70
3	D	1110	ALA	N-CA-C	-5.63	95.81	111.00
2	M	304	LEU	CA-CB-CG	5.48	127.89	115.30
6	U	15	G	N9-C1'-C2'	-5.47	105.98	112.00
4	E	49	GLN	N-CA-C	5.39	125.56	111.00
3	I	1110	ALA	N-CA-C	-5.32	96.63	111.00
4	O	49	GLN	N-CA-C	5.31	125.35	111.00
3	D	166	GLN	N-CA-C	-5.30	96.69	111.00
3	N	166	GLN	N-CA-C	-5.27	96.78	111.00
2	C	319	GLY	N-CA-C	-5.24	100.00	113.10
3	D	851	LEU	CA-CB-CG	-5.23	103.28	115.30
3	N	851	LEU	CA-CB-CG	-5.22	103.30	115.30
3	I	543	LEU	CA-CB-CG	-5.19	103.36	115.30
1	B	135	GLY	N-CA-C	-5.18	100.16	113.10
1	G	135	GLY	N-CA-C	-5.17	100.18	113.10
3	I	851	LEU	CA-CB-CG	-5.17	103.42	115.30
1	L	135	GLY	N-CA-C	-5.16	100.19	113.10
2	H	322	VAL	N-CA-C	-5.08	97.28	111.00
6	U	16	G	C2'-C3'-O3'	5.08	121.83	113.70
2	C	886	LEU	CA-CB-CG	-5.06	103.66	115.30
2	M	886	LEU	CA-CB-CG	-5.01	103.78	115.30

There are no chirality outliers.

All (22) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	267	TYR	Sidechain
2	C	589	ARG	Sidechain
2	C	642	ARG	Sidechain
2	C	71	TYR	Sidechain
2	C	735	ARG	Sidechain
3	D	1058	ARG	Sidechain
3	D	1327	ARG	Sidechain
2	H	642	ARG	Sidechain
3	I	1029	ARG	Sidechain
3	I	1058	ARG	Sidechain
3	I	1327	ARG	Sidechain
3	I	783	ARG	Sidechain
2	M	202	TYR	Sidechain
2	M	642	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	M	84	ARG	Sidechain
3	N	1058	ARG	Sidechain
3	N	1327	ARG	Sidechain
3	N	215	TYR	Sidechain
3	N	56	TYR	Sidechain
3	N	783	ARG	Sidechain
6	Q	12	G	Sidechain
6	S	9	U	Sidechain

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1759	0	1805	209	3
1	B	1759	0	1805	263	2
1	F	1759	0	1805	195	3
1	G	1764	0	1810	253	3
1	K	1769	0	1815	202	0
1	L	1759	0	1805	220	0
2	C	8550	0	8654	1412	1
2	H	8524	0	8626	1521	0
2	M	8555	0	8658	1519	1
3	D	10384	0	10615	1752	3
3	I	9965	0	10206	1707	1
3	N	10475	0	10699	1791	3
4	E	754	0	769	94	0
4	J	754	0	769	116	0
4	O	754	0	769	111	0
5	P	136	0	79	3	0
5	R	119	0	68	12	0
5	T	98	0	57	8	0
6	Q	152	0	78	10	0
6	S	172	0	88	12	0
6	U	152	0	79	12	0
7	X	1189	0	1205	141	0
7	Y	1169	0	1186	151	0
7	Z	1169	0	1186	146	0
8	D	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	I	1	0	0	0	0
8	N	1	0	0	0	0
9	D	1	0	0	0	0
9	N	1	0	0	0	0
9	S	1	0	0	0	0
All	All	73646	0	74636	10729	10

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 72.

All (10729) 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)
3:N:50:PHE:CD2	3:N:522:PRO:HD3	1.20	1.62
2:H:182:VAL:HG11	2:H:193:LEU:CD2	1.09	1.56
2:H:1090:LYS:HE3	3:I:90:MET:SD	1.45	1.55
2:H:182:VAL:CG1	2:H:193:LEU:HD21	1.13	1.55
3:I:783:ARG:NH1	7:Y:41:ASP:CB	1.67	1.53
2:C:193:LEU:CD2	2:C:307:LEU:HD22	1.36	1.52
3:I:131:LYS:HG3	3:I:568:ARG:CD	1.35	1.51
3:N:50:PHE:CD2	3:N:522:PRO:CD	1.92	1.50
2:H:1019:GLN:NE2	3:I:621:LYS:CG	1.71	1.47
2:H:1019:GLN:CD	3:I:621:LYS:HG3	1.35	1.46
3:I:50:PHE:O	3:I:89:ARG:CD	1.65	1.44
3:I:131:LYS:CG	3:I:568:ARG:HD3	1.43	1.44
3:I:783:ARG:NH1	7:Y:41:ASP:HB3	1.20	1.42
2:C:1004:LYS:HD2	3:D:744:GLN:NE2	1.29	1.42
3:N:970:LYS:NZ	7:Z:113:LEU:HD23	1.11	1.41
1:B:187:GLY:HA3	3:D:685:ASP:CB	1.50	1.40
1:G:185:ARG:CZ	3:I:692:GLU:HG2	1.49	1.40
3:N:970:LYS:NZ	7:Z:113:LEU:CD2	1.84	1.39
2:M:39:ARG:HE	2:M:45:GLN:NE2	1.13	1.38
3:N:783:ARG:CD	7:Z:41:ASP:OD2	1.71	1.38
3:D:136:ASP:CG	3:D:137:PRO:HD3	1.43	1.38
3:D:127:LEU:O	3:D:457:GLY:HA2	1.20	1.36
3:N:783:ARG:HH11	7:Z:41:ASP:CB	1.35	1.36
2:H:1090:LYS:CE	3:I:90:MET:SD	2.12	1.35
3:D:87:ARG:HB3	3:D:523:ASP:CB	1.58	1.33
2:H:1086:ARG:NH1	3:I:88:TYR:CE2	1.96	1.33
2:M:911:GLU:OE1	3:N:951:ILE:CD1	1.76	1.32
2:M:911:GLU:OE1	3:N:951:ILE:HD11	1.14	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:87:ARG:CB	3:D:523:ASP:HB2	1.61	1.30
3:D:50:PHE:CD2	3:D:522:PRO:HD3	1.64	1.30
3:N:783:ARG:NH1	7:Z:41:ASP:CB	1.90	1.30
3:I:131:LYS:CG	3:I:568:ARG:CD	2.02	1.29
2:M:39:ARG:HG2	2:M:45:GLN:CD	1.52	1.29
1:G:185:ARG:NE	3:I:692:GLU:HG2	1.46	1.29
2:H:1004:LYS:HD2	3:I:744:GLN:NE2	1.45	1.29
3:N:783:ARG:NH1	7:Z:41:ASP:HB2	1.41	1.29
2:H:122:THR:CG2	2:H:124:ASP:OD1	1.81	1.29
2:M:1090:LYS:HE3	3:N:90:MET:CG	1.63	1.29
3:N:50:PHE:CG	3:N:522:PRO:HG2	1.68	1.28
2:M:39:ARG:CG	2:M:45:GLN:OE1	1.80	1.28
2:C:685:GLU:HG3	7:X:41:ASP:OD1	1.20	1.28
3:N:970:LYS:CE	7:Z:113:LEU:HD23	1.60	1.28
3:I:12:LEU:HD21	3:I:104:PHE:CE1	1.70	1.27
2:M:122:THR:CG2	2:M:124:ASP:OD1	1.81	1.26
2:C:185:LYS:CD	2:C:190:LYS:HG2	1.64	1.26
3:N:50:PHE:CG	3:N:522:PRO:CG	2.17	1.25
2:M:41:ASN:O	2:M:46:ALA:HB2	1.12	1.25
3:N:675:ARG:O	3:N:679:ARG:HB2	1.37	1.24
2:M:84:ARG:NH2	2:M:133:ASP:OD2	1.71	1.23
2:M:39:ARG:NE	2:M:45:GLN:NE2	1.85	1.23
2:H:309:TYR:O	2:H:313:LEU:HD13	1.36	1.23
2:H:1103:ASP:OD2	3:I:2:LYS:HA	1.33	1.22
3:I:131:LYS:CB	3:I:568:ARG:HD2	1.69	1.22
3:N:86:ARG:CG	3:N:523:ASP:OD2	1.86	1.22
3:D:124:GLU:HG3	3:D:128:TYR:CE1	1.75	1.21
2:H:1086:ARG:CZ	3:I:88:TYR:CE2	2.23	1.21
2:M:30:LEU:HD12	2:M:30:LEU:O	1.40	1.21
2:C:879:ARG:NH2	7:X:42:ASP:OD1	1.73	1.21
2:M:217:LEU:HB2	2:M:311:PHE:CE1	1.74	1.21
3:N:86:ARG:HG2	3:N:523:ASP:OD2	1.34	1.21
2:M:1093:GLN:HB3	3:N:21:TRP:CZ3	1.76	1.20
2:H:1019:GLN:CD	3:I:621:LYS:CD	2.09	1.20
2:H:1019:GLN:CD	3:I:621:LYS:CG	1.98	1.20
3:N:970:LYS:HZ1	7:Z:113:LEU:CG	1.54	1.20
2:C:1097:LEU:HD11	3:D:1451:ALA:CB	1.71	1.20
2:H:122:THR:HG22	2:H:124:ASP:OD1	1.42	1.20
2:M:140:ILE:CD1	2:M:331:ARG:HH21	1.54	1.20
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	1.56	1.20
2:H:1030:GLN:NE2	3:I:628:ARG:HD3	1.57	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:970:LYS:HZ3	7:Z:113:LEU:CD2	1.43	1.19
3:D:157:GLU:O	3:D:161:LEU:CD1	1.89	1.19
2:M:1030:GLN:NE2	3:N:628:ARG:HD3	1.56	1.19
2:H:1019:GLN:NE2	3:I:621:LYS:HG3	0.87	1.19
3:N:452:ILE:HD13	3:N:452:ILE:O	1.39	1.19
3:I:131:LYS:HB2	3:I:568:ARG:CD	1.72	1.18
3:I:131:LYS:CB	3:I:568:ARG:CD	2.19	1.18
2:H:1019:GLN:CD	3:I:621:LYS:HD2	1.63	1.18
3:N:131:LYS:HG3	3:N:568:ARG:HD3	1.25	1.18
2:H:185:LYS:HD2	2:H:190:LYS:HG2	1.24	1.18
1:L:185:ARG:CZ	3:N:692:GLU:HG2	1.72	1.18
3:N:432:TYR:CD2	3:N:450:TYR:CD2	2.31	1.17
2:C:224:GLU:CB	2:C:228:ALA:HB2	1.73	1.17
2:M:122:THR:HG22	2:M:124:ASP:OD1	1.41	1.17
2:C:685:GLU:CG	7:X:41:ASP:OD1	1.92	1.16
3:N:50:PHE:CD2	3:N:522:PRO:CG	2.28	1.16
2:H:182:VAL:HB	2:H:193:LEU:HD13	1.27	1.16
1:B:187:GLY:CA	3:D:685:ASP:HA	1.75	1.16
3:D:136:ASP:OD2	3:D:137:PRO:HD3	1.45	1.16
1:G:76:VAL:HB	3:I:872:ARG:NH1	1.58	1.16
2:C:1097:LEU:HD11	3:D:1451:ALA:HB2	1.23	1.15
3:I:1254:GLN:HG2	3:I:1255:GLY:H	1.02	1.15
2:M:660:ALA:HB1	2:M:667:ALA:O	1.46	1.15
2:M:564:MET:HE1	2:M:846:LYS:HE2	1.24	1.15
2:M:84:ARG:NE	2:M:133:ASP:OD1	1.79	1.15
3:D:480:GLU:O	3:D:484:PRO:HD2	1.43	1.15
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.27	1.15
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	1.80	1.15
3:N:783:ARG:HD2	7:Z:41:ASP:OD2	1.40	1.15
3:I:126:VAL:O	3:I:130:SER:HB3	1.45	1.14
2:C:175:GLU:HG2	2:C:183:SER:HB3	1.22	1.14
2:H:603:VAL:HA	2:H:613:VAL:HG12	1.25	1.14
7:X:57:ARG:HB2	7:X:57:ARG:HH21	1.12	1.14
2:H:267:TYR:HB2	2:H:272:ALA:HB1	1.29	1.14
3:D:161:LEU:HD12	3:D:161:LEU:N	1.55	1.14
3:D:134:VAL:HG21	3:D:460:ALA:CB	1.77	1.14
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.20	1.14
3:D:28:LYS:O	3:D:43:GLY:HA2	1.47	1.14
7:Z:6:LYS:HD2	7:Z:85:LEU:HD12	1.30	1.14
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.27	1.14
2:M:111:ASP:CB	2:M:369:PRO:HG2	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:313:LEU:HG	2:H:320:HIS:CE1	1.83	1.14
1:G:187:GLY:O	3:I:688:TRP:HD1	1.28	1.14
3:I:116:LEU:HD22	3:I:118:LEU:HG	1.30	1.13
2:M:676:ILE:CG2	2:M:988:VAL:HG13	1.78	1.13
2:H:660:ALA:HB1	2:H:667:ALA:O	1.46	1.13
2:C:660:ALA:HB1	2:C:667:ALA:O	1.46	1.13
2:H:1092:LEU:HD13	2:H:1099:VAL:HG21	1.20	1.13
3:D:28:LYS:HD2	3:D:29:PRO:HD2	1.29	1.13
3:D:762:GLN:HE21	4:E:20:THR:CG2	1.60	1.13
2:M:243:ARG:HB3	2:M:244:PRO:HD2	1.31	1.13
1:G:112:ARG:HD3	1:G:125:PRO:HB3	1.31	1.13
3:D:172:PRO:HG2	3:D:175:VAL:HG21	1.23	1.12
2:M:129:ILE:HG22	2:M:130:ASN:H	0.96	1.12
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.27	1.12
2:M:70:GLU:HB2	2:M:97:ARG:HH21	1.12	1.12
2:C:185:LYS:CG	2:C:190:LYS:HG2	1.79	1.12
3:D:991:GLN:NE2	7:X:112:VAL:HB	1.62	1.12
3:I:871:LYS:NZ	1:L:60:ASP:HA	1.64	1.12
3:I:50:PHE:O	3:I:89:ARG:HD3	1.37	1.12
3:I:142:LEU:HB3	3:I:145:VAL:O	1.46	1.12
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.24	1.12
3:N:680:GLN:HG3	3:N:682:ASP:O	1.50	1.12
2:M:834:GLN:HE22	3:N:724:GLN:HG3	1.06	1.12
1:K:25:LEU:HD22	1:L:225:PHE:CE2	1.83	1.12
2:C:193:LEU:CD2	2:C:307:LEU:CD2	2.27	1.12
3:N:28:LYS:O	3:N:43:GLY:HA2	1.47	1.12
2:H:181:VAL:HG12	2:H:182:VAL:H	1.03	1.11
2:H:1097:LEU:HD11	3:I:1451:ALA:HB2	1.23	1.11
3:I:611:GLN:HE22	6:S:9:U:H4'	1.09	1.11
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.29	1.11
3:I:408:GLU:HG3	3:I:409:VAL:H	1.08	1.11
2:C:193:LEU:HD23	2:C:307:LEU:CD2	1.81	1.11
3:N:1211:MET:HG2	3:N:1212:ALA:H	1.15	1.11
3:N:116:LEU:HD22	3:N:118:LEU:HG	1.30	1.11
2:H:111:ASP:CB	2:H:369:PRO:HG2	1.79	1.11
3:N:86:ARG:CD	3:N:523:ASP:OD2	1.99	1.11
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.20	1.10
2:M:84:ARG:HE	2:M:133:ASP:CG	1.53	1.10
3:N:970:LYS:HZ1	7:Z:113:LEU:CB	1.64	1.10
2:H:685:GLU:HG3	7:Y:41:ASP:OD1	1.50	1.10
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.32	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:193:LEU:HD21	2:C:307:LEU:HD22	1.18	1.10
3:N:28:LYS:HD2	3:N:29:PRO:HD2	1.33	1.10
2:H:987:ILE:HG23	3:I:948:THR:HG21	1.32	1.10
3:D:116:LEU:HD22	3:D:118:LEU:HG	1.22	1.10
3:D:139:GLY:HA3	3:D:162:ARG:HH22	0.94	1.10
2:H:565:GLN:HE21	2:H:842:ARG:HG2	1.17	1.10
2:H:1090:LYS:HE3	3:I:90:MET:CG	1.79	1.10
2:C:196:LEU:HD23	2:C:200:LEU:HD11	1.18	1.10
2:H:878:SER:HA	3:I:1034:GLN:HE22	1.09	1.09
1:L:41:ARG:HG3	1:L:177:VAL:HG21	1.34	1.09
3:N:1362:LYS:HD2	7:Z:34:GLN:NE2	1.67	1.09
3:I:783:ARG:NH1	7:Y:41:ASP:HB2	1.52	1.09
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.29	1.09
1:L:74:ASP:HB2	3:N:872:ARG:HH22	1.05	1.09
1:B:187:GLY:HA3	3:D:685:ASP:CA	1.80	1.09
1:G:112:ARG:HH11	1:G:125:PRO:HB2	0.96	1.09
2:H:1052:MET:SD	3:I:623:VAL:HG11	1.92	1.09
3:D:1359:GLN:HE22	7:X:52:LYS:HE2	1.01	1.09
2:H:193:LEU:H	2:H:193:LEU:CD1	1.64	1.09
2:H:182:VAL:HG12	2:H:193:LEU:HD11	1.35	1.09
1:B:187:GLY:HA3	3:D:685:ASP:HB3	1.32	1.09
3:D:785:ILE:HD12	3:D:785:ILE:H	1.00	1.09
2:M:1074:GLU:HG2	2:M:1075:ASP:H	1.18	1.09
3:I:520:LEU:HD11	3:I:524:LEU:HD22	1.20	1.09
2:M:217:LEU:HB2	2:M:311:PHE:CD1	1.88	1.09
2:H:266:ARG:HA	2:H:288:ARG:HD3	1.30	1.08
3:D:1211:MET:HG2	3:D:1212:ALA:H	1.15	1.08
3:D:160:GLU:HA	3:D:165:LYS:HB2	1.35	1.08
3:D:136:ASP:CG	3:D:137:PRO:CD	2.21	1.08
3:D:126:VAL:HG13	3:D:132:TYR:CD2	1.88	1.08
3:N:397:LYS:HE2	3:N:448:GLU:HB3	1.31	1.08
2:H:188:LYS:HB2	2:H:188:LYS:NZ	1.60	1.08
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.18	1.08
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.09	1.08
3:I:119:SER:HB2	3:I:123:LEU:HB2	1.33	1.08
2:C:564:MET:HE1	2:C:846:LYS:HE2	1.35	1.08
2:M:1097:LEU:HD11	3:N:1451:ALA:HB2	1.33	1.08
2:C:1065:ALA:HB1	2:C:1077:PRO:HG2	1.27	1.08
2:M:1004:LYS:HD2	3:N:744:GLN:HE22	1.12	1.08
2:C:911:GLU:OE1	3:D:951:ILE:HD13	1.51	1.08
2:H:1019:GLN:CG	3:I:621:LYS:HD2	1.84	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:224:GLU:HB3	2:C:228:ALA:HB2	1.36	1.07
3:I:131:LYS:HB2	3:I:568:ARG:HD2	1.14	1.07
2:C:1099:VAL:HG22	3:D:10:ILE:HG12	1.34	1.07
2:H:260:LEU:HB2	2:H:291:ALA:HB1	1.36	1.07
3:D:762:GLN:NE2	4:E:20:THR:HG21	1.68	1.07
3:I:1211:MET:HG2	3:I:1212:ALA:H	1.15	1.07
3:N:1257:PRO:HA	3:N:1260:ILE:HD12	1.30	1.07
2:H:1081:VAL:HG21	2:H:1111:ILE:HG22	1.29	1.07
2:H:1084:SER:HB3	3:I:617:ASN:OD1	1.51	1.07
2:M:328:LEU:HD13	2:M:433:THR:HB	1.36	1.07
3:N:131:LYS:CG	3:N:568:ARG:HD3	1.60	1.07
2:H:165:LEU:O	2:H:265:ARG:HD2	1.54	1.07
2:M:6:PHE:HZ	2:M:901:TYR:CD2	1.70	1.07
2:M:170:PRO:HD3	2:M:263:ASP:HB3	1.17	1.07
2:H:328:LEU:HD13	2:H:433:THR:HB	1.33	1.07
3:D:161:LEU:H	3:D:161:LEU:HD12	1.09	1.07
3:D:136:ASP:CB	3:D:137:PRO:CD	2.32	1.07
3:N:1362:LYS:HD2	7:Z:34:GLN:HE22	1.19	1.07
2:H:576:ALA:HB3	2:H:900:ARG:NH1	1.69	1.07
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.36	1.07
2:C:193:LEU:HD23	2:C:307:LEU:HD22	1.16	1.07
2:M:140:ILE:HD13	2:M:331:ARG:HH21	1.19	1.07
2:M:334:ARG:HH12	2:M:415:PRO:HG2	1.19	1.07
2:H:309:TYR:O	2:H:313:LEU:CD1	2.03	1.07
2:C:111:ASP:CB	2:C:369:PRO:HG2	1.85	1.07
2:M:217:LEU:HD12	2:M:311:PHE:CD1	1.89	1.07
2:H:245:GLY:O	2:H:246:ASP:CG	1.93	1.07
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.31	1.07
2:H:160:ALA:HB3	2:H:174:LEU:HB2	1.32	1.07
2:H:182:VAL:HB	2:H:193:LEU:CD1	1.83	1.06
2:H:685:GLU:CG	7:Y:41:ASP:OD1	2.03	1.06
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.36	1.06
3:N:432:TYR:HD2	3:N:450:TYR:CE2	1.73	1.06
1:B:74:ASP:HB2	3:D:872:ARG:HH22	1.15	1.06
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	1.90	1.06
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.34	1.06
3:N:15:PRO:HB3	3:N:515:GLU:OE1	1.53	1.06
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.07	1.06
2:H:267:TYR:HB2	2:H:272:ALA:CB	1.85	1.06
7:X:24:GLU:HA	7:X:27:GLN:HE21	1.16	1.06
3:I:134:VAL:HG21	3:I:460:ALA:HB1	1.30	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:39:ARG:HG2	2:M:45:GLN:OE1	0.88	1.06
2:C:185:LYS:HD2	2:C:190:LYS:HG2	1.11	1.06
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.33	1.06
3:D:1258:ARG:HH12	3:D:1262:LEU:HD13	1.16	1.06
2:H:290:LEU:HB3	2:H:302:VAL:HG11	1.34	1.06
1:B:185:ARG:CZ	3:D:692:GLU:HG2	1.85	1.06
3:N:996:TRP:CG	3:N:1056:PRO:HG2	1.89	1.05
2:M:188:LYS:HZ3	2:M:188:LYS:HB2	0.90	1.05
3:I:89:ARG:O	3:I:521:PRO:HG3	1.56	1.05
2:C:565:GLN:HE21	2:C:842:ARG:HG2	1.21	1.05
3:I:204:LEU:HB3	3:I:394:LEU:HG	1.39	1.05
3:I:785:ILE:HD12	3:I:785:ILE:H	1.20	1.05
3:I:28:LYS:HD2	3:I:29:PRO:HD2	1.33	1.05
3:D:176:ASP:HB3	3:D:389:GLU:HG2	1.39	1.05
1:G:185:ARG:CZ	3:I:692:GLU:CG	2.34	1.05
3:N:81:THR:CG2	3:N:82:LYS:H	1.68	1.05
2:C:879:ARG:NH2	7:X:42:ASP:CG	2.10	1.05
2:C:111:ASP:HB3	2:C:369:PRO:HG2	1.06	1.05
3:D:1121:PRO:HB2	3:D:1135:ARG:HH12	1.13	1.05
3:I:762:GLN:HE21	4:J:20:THR:HG21	0.89	1.05
2:M:109:LYS:HD3	2:M:368:THR:CG2	1.87	1.05
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	0.97	1.05
2:M:157:ARG:HD3	2:M:314:THR:OG1	1.56	1.05
2:M:1099:VAL:HG22	3:N:10:ILE:HG12	1.38	1.05
2:C:129:ILE:HG22	2:C:130:ASN:H	1.22	1.05
2:M:129:ILE:HD13	2:M:134:ARG:HG3	1.08	1.04
1:K:90:LEU:HD13	1:K:119:ASP:O	1.57	1.04
1:F:90:LEU:HD13	1:F:119:ASP:O	1.57	1.04
2:H:193:LEU:N	2:H:193:LEU:HD12	1.68	1.04
3:N:783:ARG:NH1	7:Z:41:ASP:HB3	1.69	1.04
2:M:41:ASN:O	2:M:46:ALA:CB	2.05	1.04
2:H:265:ARG:HB3	2:H:267:TYR:CE2	1.91	1.04
1:K:226:SER:O	1:K:228:PRO:HD3	1.56	1.04
2:M:39:ARG:CG	2:M:45:GLN:CD	2.24	1.04
2:M:200:LEU:HD13	2:M:300:ASP:OD2	1.58	1.04
3:D:139:GLY:HA3	3:D:162:ARG:NH2	1.73	1.04
2:H:196:LEU:HD23	2:H:200:LEU:HD11	1.40	1.04
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.39	1.04
1:F:42:ARG:NH1	1:G:34:VAL:HB	1.73	1.04
2:H:1005:MET:SD	3:I:724:GLN:OE1	2.15	1.04
2:C:1099:VAL:HG22	3:D:10:ILE:CG1	1.88	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:187:LYS:HB2	3:N:200:ASP:HB2	1.34	1.04
3:I:50:PHE:O	3:I:89:ARG:CG	2.06	1.03
3:N:81:THR:HG22	3:N:82:LYS:N	1.68	1.03
3:N:785:ILE:HD12	3:N:785:ILE:H	1.20	1.03
3:D:129:PHE:CZ	3:D:587:ARG:NE	2.25	1.03
3:I:136:ASP:HB3	3:I:137:PRO:HD3	1.34	1.03
3:I:762:GLN:NE2	4:J:20:THR:HG21	1.72	1.03
2:H:1104:GLU:OE2	3:I:3:LYS:NZ	1.91	1.03
3:D:165:LYS:HD3	3:D:167:GLU:HB2	1.39	1.03
3:I:162:ARG:HD2	3:I:452:ILE:HG21	1.36	1.03
2:M:217:LEU:HD12	2:M:311:PHE:CG	1.92	1.03
2:H:111:ASP:HB2	2:H:369:PRO:CG	1.89	1.03
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.37	1.03
2:H:1074:GLU:HG2	2:H:1075:ASP:H	1.18	1.03
1:A:90:LEU:HD13	1:A:119:ASP:O	1.57	1.03
2:M:565:GLN:HE21	2:M:842:ARG:HG2	1.22	1.03
2:M:432:ARG:HH22	3:N:1047:LYS:CD	1.71	1.03
2:H:109:LYS:HD3	2:H:368:THR:HG23	1.40	1.03
1:A:56:VAL:HG13	1:A:142:VAL:HG12	1.40	1.03
2:C:383:ARG:HH11	2:C:383:ARG:HB2	1.21	1.03
3:I:991:GLN:HE22	7:Y:112:VAL:CG2	1.71	1.03
2:M:564:MET:HE1	2:M:846:LYS:CE	1.88	1.02
2:M:122:THR:HG21	2:M:124:ASP:OD1	1.55	1.02
3:N:131:LYS:CG	3:N:568:ARG:CD	2.26	1.02
2:H:21:ILE:H	2:H:21:ILE:HD12	1.16	1.02
2:C:224:GLU:HB3	2:C:228:ALA:CB	1.88	1.02
2:C:211:LEU:HD23	2:C:221:LEU:CD2	1.88	1.02
3:D:124:GLU:HG3	3:D:128:TYR:CD1	1.94	1.02
7:Z:119:ILE:HG13	7:Z:125:MET:HE1	1.04	1.02
3:N:1305:LEU:HD12	3:N:1311:LEU:HD22	1.42	1.02
3:D:159:ARG:NH2	2:H:218:VAL:HG11	1.75	1.02
2:H:1090:LYS:CD	3:I:90:MET:SD	2.47	1.02
1:G:112:ARG:HH11	1:G:125:PRO:CB	1.73	1.02
1:A:24:VAL:HG13	1:A:196:THR:HG22	1.42	1.02
2:M:129:ILE:HG22	2:M:130:ASN:N	1.74	1.02
3:D:762:GLN:HE21	4:E:20:THR:HG21	0.85	1.02
3:N:1256:LEU:O	3:N:1260:ILE:HG13	1.59	1.02
1:B:62:LEU:HD13	1:B:63:HIS:H	1.24	1.02
2:M:1090:LYS:HE3	3:N:90:MET:HG2	1.42	1.01
3:N:432:TYR:HD2	3:N:450:TYR:CD2	1.73	1.01
3:N:214:GLU:HG2	3:N:342:PRO:HB3	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:407:VAL:HG22	3:N:408:GLU:H	1.21	1.01
3:D:166:GLN:HG2	3:D:396:VAL:HG12	1.42	1.01
2:H:1093:GLN:HB3	3:I:21:TRP:CZ3	1.94	1.01
2:C:224:GLU:HB2	2:C:228:ALA:HB2	1.43	1.01
2:H:332:ARG:HG3	2:H:465:GLY:HA3	1.41	1.01
3:D:1359:GLN:NE2	7:X:52:LYS:HE2	1.74	1.01
2:M:1004:LYS:HD2	3:N:744:GLN:NE2	1.75	1.01
1:B:62:LEU:HD12	1:B:62:LEU:H	1.21	1.01
2:H:36:PRO:O	2:H:39:ARG:HG3	1.59	1.01
3:N:1031:ASN:HD21	7:Z:32:ILE:HG23	1.23	1.01
2:C:115:LEU:HA	2:C:375:SER:OG	1.59	1.01
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.36	1.01
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.40	1.01
1:F:56:VAL:HG13	1:F:142:VAL:HG12	1.40	1.01
3:D:1106:VAL:HB	3:D:1108:ARG:HE	1.21	1.01
3:D:677:LEU:HD23	3:D:683:ILE:HD11	1.42	1.01
3:N:783:ARG:HD2	7:Z:41:ASP:CG	1.81	1.01
3:D:136:ASP:HB3	3:D:137:PRO:HD2	1.41	1.01
3:D:119:SER:CB	3:D:123:LEU:HB2	1.90	1.01
2:M:265:ARG:HH12	2:M:332:ARG:HH12	1.02	1.01
3:N:81:THR:HG22	3:N:82:LYS:H	1.19	1.01
2:H:564:MET:HE1	2:H:846:LYS:HE2	1.43	1.01
2:C:325:ILE:HD12	2:C:325:ILE:H	1.20	1.01
2:M:676:ILE:HG21	2:M:988:VAL:HG13	1.38	1.00
3:N:783:ARG:HD3	7:Z:41:ASP:OD2	1.55	1.00
3:D:50:PHE:CD2	3:D:522:PRO:CD	2.42	1.00
2:M:129:ILE:HD13	2:M:134:ARG:CG	1.91	1.00
2:M:172:ILE:HG23	2:M:186:VAL:HG12	1.40	1.00
1:G:185:ARG:NH1	3:I:692:GLU:HB3	1.77	1.00
3:D:136:ASP:HB3	3:D:137:PRO:CD	1.92	1.00
2:C:175:GLU:HG2	2:C:183:SER:CB	1.91	1.00
2:H:1056:LYS:HD3	3:I:623:VAL:CG1	1.91	1.00
1:B:185:ARG:NE	3:D:692:GLU:HG2	1.76	1.00
2:C:576:ALA:HB3	2:C:900:ARG:NH1	1.76	1.00
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.24	1.00
3:I:36:THR:OG1	3:I:40:GLU:OE2	1.77	1.00
2:H:182:VAL:CG1	2:H:193:LEU:CD2	1.91	1.00
3:D:28:LYS:CD	3:D:29:PRO:HD2	1.91	1.00
3:N:1256:LEU:HG	3:N:1260:ILE:HD11	1.42	1.00
3:D:15:PRO:HB3	3:D:515:GLU:OE1	1.59	1.00
7:Z:14:ARG:HB3	7:Z:14:ARG:HH11	1.21	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:267:TYR:HB2	2:M:272:ALA:CB	1.91	1.00
3:I:1254:GLN:HG2	3:I:1255:GLY:N	1.75	1.00
3:N:1233:GLY:HA2	3:N:1236:LEU:HD12	1.43	1.00
2:C:1081:VAL:HG21	2:C:1111:ILE:CG2	1.91	1.00
2:M:84:ARG:HH11	2:M:84:ARG:HG3	1.27	1.00
2:H:675:ALA:HA	2:H:989:VAL:HG12	1.43	1.00
2:H:122:THR:HG21	2:H:124:ASP:OD1	1.55	0.99
2:M:80:GLN:CG	2:M:90:TYR:CE2	2.44	0.99
7:X:57:ARG:HB2	7:X:57:ARG:NH2	1.75	0.99
2:M:6:PHE:CZ	2:M:901:TYR:HD2	1.79	0.99
2:M:6:PHE:HE1	2:M:901:TYR:HB3	1.25	0.99
2:H:432:ARG:HH22	3:I:1047:LYS:HD3	1.25	0.99
4:J:6:ILE:HA	4:J:9:LEU:HD12	1.42	0.99
2:C:1011:GLY:HA3	2:C:1026:GLN:HG2	1.44	0.99
2:H:451:LEU:C	2:H:452:ILE:HD12	1.81	0.99
1:G:112:ARG:NH1	1:G:125:PRO:HB2	1.77	0.99
2:M:211:LEU:HD23	2:M:221:LEU:HD21	1.42	0.99
2:H:111:ASP:HB2	2:H:369:PRO:HG2	1.00	0.99
3:I:40:GLU:OE1	3:I:40:GLU:HA	1.61	0.99
1:K:56:VAL:HG13	1:K:142:VAL:HG12	1.40	0.99
2:C:1004:LYS:CD	3:D:744:GLN:NE2	2.25	0.99
3:N:387:LEU:H	3:N:387:LEU:HD12	1.27	0.99
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.41	0.99
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.44	0.99
1:K:42:ARG:NH1	1:L:34:VAL:HB	1.78	0.99
2:M:1093:GLN:HB3	3:N:21:TRP:HZ3	1.16	0.99
2:C:1090:LYS:HE3	3:D:90:MET:CG	1.92	0.99
3:D:31:THR:HG23	3:D:545:ARG:HD3	1.42	0.99
2:M:52:PHE:CZ	2:M:98:LEU:HG	1.98	0.99
3:D:126:VAL:HG13	3:D:132:TYR:CG	1.96	0.99
3:N:141:ILE:HD13	3:N:142:LEU:N	1.78	0.99
1:L:185:ARG:NE	3:N:692:GLU:HG2	1.76	0.99
2:M:188:LYS:NZ	2:M:188:LYS:HB2	1.63	0.99
3:N:639:LEU:HD13	3:N:766:ALA:HB2	1.44	0.99
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.45	0.98
3:N:133:ILE:O	3:N:152:LEU:HB2	1.63	0.98
2:C:111:ASP:HB3	2:C:369:PRO:CG	1.92	0.98
5:T:18:DC:H2''	5:T:19:DC:H5'	1.43	0.98
3:D:119:SER:HB2	3:D:123:LEU:CB	1.93	0.98
2:M:1085:PHE:HE2	3:N:1468:LEU:HG	1.29	0.98
2:C:185:LYS:CG	2:C:190:LYS:CG	2.40	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:74:ASP:HB2	3:N:872:ARG:NH2	1.76	0.98
2:C:267:TYR:HB2	2:C:272:ALA:CB	1.93	0.98
3:D:116:LEU:CD2	3:D:118:LEU:HG	1.91	0.98
7:Z:57:ARG:HB2	7:Z:57:ARG:HH21	1.27	0.98
1:G:76:VAL:HB	3:I:872:ARG:HH12	1.15	0.98
3:I:404:GLU:N	3:I:423:ASP:OD2	1.97	0.98
2:M:115:LEU:H	2:M:115:LEU:HD23	1.26	0.98
2:H:1086:ARG:NH1	3:I:88:TYR:CD2	2.31	0.98
2:C:1086:ARG:HD3	3:D:88:TYR:CE1	1.97	0.98
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.42	0.98
1:B:187:GLY:CA	3:D:685:ASP:CA	2.41	0.98
2:M:1095:LEU:HD11	2:M:1097:LEU:HB2	1.45	0.98
3:N:1484:THR:HG21	4:O:22:VAL:HG22	1.45	0.98
3:D:162:ARG:HG3	3:D:452:ILE:HG13	1.45	0.98
2:M:52:PHE:HZ	2:M:98:LEU:HG	1.26	0.98
3:D:991:GLN:HE22	7:X:112:VAL:CB	1.75	0.98
3:I:809:PRO:HB2	3:I:812:ALA:HB2	1.42	0.98
2:M:293:PHE:HD1	2:M:293:PHE:H	1.05	0.98
2:M:1065:ALA:HB1	2:M:1077:PRO:HG2	1.43	0.98
3:N:141:ILE:HG13	3:N:448:GLU:CD	1.84	0.98
3:N:432:TYR:CD2	3:N:450:TYR:CE2	2.52	0.98
1:F:58:ILE:HD13	1:F:140:MET:HB3	1.45	0.98
3:I:177:ALA:HB2	3:I:390:PRO:HG3	1.41	0.98
3:I:1305:LEU:HD12	3:I:1311:LEU:HD22	1.42	0.98
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.45	0.98
2:C:185:LYS:HG2	2:C:190:LYS:CG	1.93	0.97
2:H:1085:PHE:HE2	3:I:1468:LEU:HG	1.25	0.97
3:I:87:ARG:O	3:I:88:TYR:CD2	2.16	0.97
2:H:313:LEU:HA	2:H:320:HIS:ND1	1.78	0.97
2:H:136:ILE:HG21	2:H:336:VAL:HG13	1.46	0.97
3:I:1465:ASN:HD21	3:I:1470:ARG:NH2	1.63	0.97
3:D:677:LEU:HD23	3:D:683:ILE:CD1	1.95	0.97
3:D:785:ILE:H	3:D:785:ILE:CD1	1.75	0.97
1:G:187:GLY:O	3:I:688:TRP:CD1	2.18	0.97
3:D:170:PRO:HD2	2:H:318:PRO:HB3	1.46	0.97
2:H:676:ILE:CG2	2:H:988:VAL:HG13	1.94	0.97
2:H:1095:LEU:HD11	2:H:1097:LEU:HB2	1.45	0.97
3:D:116:LEU:HD22	3:D:118:LEU:CG	1.93	0.97
2:M:6:PHE:CE1	2:M:901:TYR:HB3	1.98	0.97
3:D:134:VAL:HG21	3:D:460:ALA:HB1	1.44	0.97
2:H:1029:GLY:O	3:I:622:ARG:HD3	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:290:LEU:CB	2:M:302:VAL:HG11	1.94	0.97
2:C:1103:ASP:OD1	3:D:3:LYS:HB2	1.62	0.97
3:D:806:PHE:CE1	3:D:813:LEU:HB3	1.99	0.97
3:I:50:PHE:O	3:I:89:ARG:HD2	1.65	0.97
1:G:112:ARG:CD	1:G:125:PRO:HB3	1.94	0.97
3:I:41:ARG:HA	3:I:46:ASP:OD1	1.63	0.97
1:K:42:ARG:HH12	1:L:34:VAL:HB	1.29	0.97
3:I:540:LEU:HA	3:I:543:LEU:HD12	1.44	0.96
3:D:991:GLN:HE22	7:X:112:VAL:HB	0.82	0.96
2:C:199:VAL:HG21	2:C:238:LEU:HD12	1.44	0.96
3:D:785:ILE:HD12	3:D:785:ILE:N	1.78	0.96
3:D:411:THR:HG23	3:D:436:GLU:HA	1.44	0.96
2:M:129:ILE:CG2	2:M:130:ASN:H	1.78	0.96
2:M:170:PRO:CD	2:M:263:ASP:HB3	1.94	0.96
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.42	0.96
3:I:991:GLN:NE2	7:Y:112:VAL:CG2	2.27	0.96
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.47	0.96
2:M:71:TYR:HA	2:M:96:ALA:HB2	1.47	0.96
2:M:565:GLN:NE2	2:M:842:ARG:HG2	1.78	0.96
2:H:182:VAL:CG1	2:H:193:LEU:HD11	1.95	0.96
2:M:101:ILE:HA	2:M:108:ILE:HG12	1.47	0.96
2:C:1095:LEU:HD11	2:C:1097:LEU:HB2	1.45	0.96
1:A:42:ARG:HH12	1:B:34:VAL:CG1	1.79	0.96
3:N:970:LYS:CE	7:Z:113:LEU:CD2	2.33	0.96
3:N:432:TYR:CD2	3:N:450:TYR:HD2	1.74	0.96
2:H:1097:LEU:HD11	3:I:1451:ALA:CB	1.94	0.96
3:I:160:GLU:HG2	3:I:165:LYS:HG3	1.48	0.96
3:D:139:GLY:O	3:D:147:VAL:HG11	1.65	0.96
3:I:639:LEU:HD13	3:I:766:ALA:HB2	1.44	0.96
1:G:41:ARG:HH11	1:G:177:VAL:HG23	1.26	0.96
2:M:109:LYS:HD3	2:M:368:THR:HG23	1.45	0.96
2:M:235:LEU:HD11	2:M:298:PHE:CZ	2.01	0.96
2:M:317:VAL:HG13	2:M:320:HIS:NE2	1.79	0.96
3:N:50:PHE:CG	3:N:522:PRO:CD	2.46	0.96
3:D:407:VAL:HG22	3:D:408:GLU:H	1.31	0.96
2:H:1019:GLN:HG3	3:I:621:LYS:HD2	1.48	0.96
1:G:76:VAL:CB	3:I:872:ARG:HH12	1.78	0.96
3:I:407:VAL:HG22	3:I:408:GLU:H	1.28	0.96
3:I:762:GLN:HE21	4:J:20:THR:CG2	1.77	0.96
2:H:560:MET:O	2:H:564:MET:HG2	1.66	0.96
1:A:58:ILE:HD13	1:A:140:MET:HB3	1.45	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:939:ARG:HA	2:C:939:ARG:HE	1.30	0.96
3:N:103:TRP:HE1	3:N:604:THR:HG1	1.03	0.95
2:H:451:LEU:O	2:H:452:ILE:HD12	1.65	0.95
2:H:195:LEU:CD1	2:H:234:ALA:HB1	1.96	0.95
1:B:122:ILE:H	1:B:122:ILE:HD12	1.29	0.95
3:I:947:ILE:O	3:I:947:ILE:HD12	1.66	0.95
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.47	0.95
2:M:140:ILE:HD13	2:M:331:ARG:NH2	1.80	0.95
1:L:41:ARG:HH11	1:L:177:VAL:HG23	1.32	0.95
2:M:1011:GLY:HA3	2:M:1026:GLN:HG2	1.47	0.95
2:C:305:PRO:HG3	2:C:308:ARG:HH21	1.31	0.95
3:N:347:VAL:HG13	3:N:351:MET:HB2	1.49	0.95
3:I:1161:GLU:OE2	3:I:1164:ARG:HD2	1.67	0.95
2:H:304:LEU:HG	2:H:305:PRO:HD3	1.45	0.95
3:D:639:LEU:HD13	3:D:766:ALA:HB2	1.44	0.95
3:N:603:LEU:O	3:N:606:ILE:HG22	1.64	0.95
2:M:242:LEU:CD1	2:M:254:VAL:HG11	1.96	0.95
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.45	0.95
3:D:1052:THR:HG22	7:X:57:ARG:HH11	1.31	0.95
1:K:161:ARG:NH1	1:K:161:ARG:HB2	1.81	0.95
2:M:74:GLY:O	2:M:76:PRO:HD3	1.66	0.95
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.30	0.95
2:H:170:PRO:HD3	2:H:263:ASP:HB3	1.48	0.95
1:A:161:ARG:HB2	1:A:161:ARG:NH1	1.81	0.95
3:D:160:GLU:HG2	3:D:165:LYS:CB	1.97	0.95
2:M:437:ARG:NH2	2:M:488:ALA:HA	1.82	0.95
3:I:871:LYS:HZ2	1:L:60:ASP:HA	1.23	0.95
2:H:170:PRO:CD	2:H:263:ASP:HB3	1.95	0.95
2:H:172:ILE:HG13	2:H:186:VAL:HG12	1.49	0.95
3:D:161:LEU:CD1	3:D:161:LEU:N	2.30	0.95
1:K:86:VAL:HG12	1:K:124:ASN:HB2	1.49	0.95
3:N:970:LYS:NZ	7:Z:113:LEU:CG	2.20	0.95
2:C:1097:LEU:CD1	3:D:1451:ALA:CB	2.44	0.95
3:N:997:THR:HG21	7:Z:61:ARG:CZ	1.97	0.95
1:F:161:ARG:HB2	1:F:161:ARG:NH1	1.81	0.95
2:H:1004:LYS:HD2	3:I:744:GLN:HE22	1.27	0.94
2:M:129:ILE:CD1	2:M:134:ARG:HG3	1.96	0.94
2:M:861:LEU:HG	2:M:862:PRO:HD2	1.49	0.94
3:I:615:ARG:HG3	3:I:619:LEU:CG	1.97	0.94
2:H:313:LEU:HG	2:H:320:HIS:ND1	1.83	0.94
1:A:109:VAL:HG12	1:A:129:ILE:HD12	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:363:SER:HB3	3:I:1130:ARG:O	1.67	0.94
1:F:86:VAL:HG12	1:F:124:ASN:HB2	1.49	0.94
2:H:182:VAL:CB	2:H:193:LEU:CD1	2.45	0.94
3:D:349:PRO:HB3	2:H:274:ARG:NH1	1.81	0.94
3:N:214:GLU:HA	3:N:342:PRO:HA	1.49	0.94
2:M:140:ILE:CD1	2:M:331:ARG:NH2	2.30	0.94
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.49	0.94
2:H:408:ARG:HH21	2:H:455:LEU:CD1	1.79	0.94
5:R:20:DG:H1	6:S:11:C:N4	1.64	0.94
2:C:182:VAL:HG11	2:C:193:LEU:CD2	1.97	0.94
2:M:560:MET:O	2:M:564:MET:HG2	1.66	0.94
2:M:80:GLN:HG2	2:M:90:TYR:CE2	2.03	0.94
2:H:293:PHE:HD1	2:H:293:PHE:H	1.12	0.94
2:M:939:ARG:HA	2:M:939:ARG:HE	1.30	0.94
3:D:161:LEU:CD1	3:D:161:LEU:H	1.79	0.94
2:M:118:ILE:HG22	2:M:382:ILE:HD13	1.48	0.94
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.48	0.94
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.49	0.94
7:Y:13:GLU:HG2	7:Y:17:GLN:HE21	1.31	0.94
3:D:1052:THR:CG2	7:X:57:ARG:HH11	1.81	0.94
7:Z:119:ILE:HG13	7:Z:125:MET:CE	1.97	0.94
1:K:109:VAL:HG12	1:K:129:ILE:HD12	1.49	0.94
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.49	0.94
2:H:794:PRO:HD2	2:H:1024:LYS:O	1.68	0.94
2:C:478:VAL:HA	2:C:506:ASN:O	1.68	0.94
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.50	0.94
2:H:182:VAL:HG11	2:H:193:LEU:HD22	1.50	0.94
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.03	0.94
2:M:188:LYS:CB	2:M:188:LYS:HZ3	1.79	0.94
2:H:1110:ASP:OD1	2:H:1112:PHE:CD1	2.20	0.93
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.03	0.93
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.49	0.93
3:I:1481:VAL:HG11	4:J:18:ARG:HA	1.47	0.93
1:L:187:GLY:O	3:N:688:TRP:HD1	1.51	0.93
2:H:355:VAL:HG23	2:H:372:LEU:HG	1.50	0.93
2:H:313:LEU:CG	2:H:320:HIS:CE1	2.51	0.93
2:M:408:ARG:HH21	2:M:455:LEU:CD1	1.80	0.93
3:N:970:LYS:CD	7:Z:113:LEU:HD23	1.97	0.93
2:M:572:ILE:HD12	2:M:573:ARG:H	1.32	0.93
2:C:560:MET:O	2:C:564:MET:HG2	1.67	0.93
3:D:1112:CYS:HB2	3:D:1195:GLN:HG2	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:603:LEU:O	3:I:606:ILE:HG22	1.68	0.93
2:M:564:MET:CE	2:M:846:LYS:HD2	1.98	0.93
2:C:676:ILE:CG2	2:C:988:VAL:HG13	1.99	0.93
2:M:101:ILE:HD12	2:M:108:ILE:HD11	1.50	0.93
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.49	0.93
2:H:939:ARG:HE	2:H:939:ARG:HA	1.30	0.93
3:D:563:PRO:HA	2:H:223:ASP:HB2	1.48	0.93
2:M:111:ASP:CG	2:M:369:PRO:HG2	1.88	0.93
3:D:127:LEU:CD2	3:D:134:VAL:HG13	1.97	0.93
3:D:480:GLU:O	3:D:484:PRO:CD	2.16	0.93
2:M:200:LEU:HD22	2:M:300:ASP:CG	1.89	0.93
2:H:565:GLN:NE2	2:H:842:ARG:HG2	1.83	0.93
3:D:1254:GLN:HA	3:D:1258:ARG:HB2	1.50	0.93
3:D:1106:VAL:HB	3:D:1108:ARG:NE	1.82	0.93
3:N:631:ILE:HD12	3:N:743:ASP:O	1.68	0.93
3:D:631:ILE:HD12	3:D:743:ASP:O	1.69	0.93
2:H:64:LEU:HB2	2:H:359:MET:HG3	1.50	0.93
3:D:134:VAL:HG21	3:D:460:ALA:HB2	1.49	0.93
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.51	0.93
1:L:75:VAL:O	1:L:79:ILE:HG23	1.67	0.93
1:F:42:ARG:HH12	1:G:34:VAL:HB	1.25	0.93
2:C:477:GLY:O	2:C:507:ARG:HA	1.69	0.93
1:G:170:VAL:HG11	3:I:848:GLU:OE2	1.69	0.93
3:N:166:GLN:HE22	3:N:394:LEU:HB2	1.31	0.93
2:M:80:GLN:HG3	2:M:90:TYR:CE2	2.02	0.93
3:I:631:ILE:HD12	3:I:743:ASP:O	1.69	0.93
2:H:10:ARG:HA	2:H:10:ARG:HH11	1.34	0.93
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.31	0.93
3:I:142:LEU:HD23	3:I:146:PRO:HA	1.51	0.93
3:I:783:ARG:HH12	7:Y:41:ASP:HB3	1.31	0.92
3:N:131:LYS:O	3:N:132:TYR:C	2.08	0.92
3:N:809:PRO:HB2	3:N:812:ALA:CB	1.97	0.92
2:C:572:ILE:HD12	2:C:573:ARG:H	1.32	0.92
2:H:1011:GLY:HA3	2:H:1026:GLN:HG2	1.51	0.92
1:G:41:ARG:NH1	1:G:177:VAL:HG23	1.83	0.92
1:F:221:HIS:HE2	1:G:32:PHE:HE2	0.95	0.92
2:M:325:ILE:HD12	2:M:325:ILE:H	1.32	0.92
2:M:836:GLY:HA3	2:M:1001:VAL:HG21	1.49	0.92
3:I:486:ARG:HA	3:I:489:ARG:HG2	1.51	0.92
3:I:107:ASP:OD1	3:I:1444:THR:HG22	1.68	0.92
1:F:109:VAL:HG12	1:F:129:ILE:HD12	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1046:ALA:HB1	3:I:1471:LEU:HD11	1.52	0.92
2:H:188:LYS:HB2	2:H:188:LYS:HZ2	1.14	0.92
2:H:432:ARG:NH2	3:I:1047:LYS:HD3	1.84	0.92
2:C:36:PRO:O	2:C:39:ARG:HG3	1.68	0.92
2:M:36:PRO:HA	2:M:39:ARG:HB2	1.52	0.92
2:H:1106:ASP:OD1	3:I:7:LYS:CD	2.17	0.92
3:N:87:ARG:O	3:N:521:PRO:HB3	1.69	0.92
2:H:572:ILE:HD12	2:H:573:ARG:H	1.32	0.92
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.70	0.92
7:Y:7:LEU:HD21	7:Y:72:ALA:HB1	1.51	0.92
3:D:127:LEU:HD23	3:D:134:VAL:HG13	1.52	0.92
1:G:80:LEU:HG	3:I:844:ALA:HA	1.52	0.92
2:C:565:GLN:NE2	2:C:842:ARG:HG2	1.85	0.92
1:F:112:ARG:HH21	1:F:125:PRO:HB2	1.35	0.92
3:I:1112:CYS:HB2	3:I:1195:GLN:HG2	1.51	0.92
3:I:1263:PHE:CE2	3:I:1371:VAL:HG11	2.03	0.92
2:H:1019:GLN:OE1	3:I:621:LYS:CG	2.17	0.92
3:I:28:LYS:O	3:I:43:GLY:HA2	1.69	0.92
3:I:41:ARG:CB	3:I:46:ASP:OD1	2.17	0.92
2:M:21:ILE:HD12	2:M:21:ILE:H	1.34	0.92
3:I:615:ARG:O	3:I:619:LEU:HG	1.69	0.92
2:M:129:ILE:HG12	2:M:134:ARG:HD3	1.52	0.92
3:I:406:ASP:O	3:I:422:ALA:HB1	1.68	0.92
2:M:48:PHE:CD1	2:M:348:LEU:HD21	2.05	0.92
2:C:879:ARG:NH2	7:X:42:ASP:CB	2.31	0.92
2:H:288:ARG:HH11	2:H:288:ARG:HB2	1.33	0.92
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	1.85	0.92
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.52	0.92
3:I:398:ALA:HB2	3:I:447:VAL:HA	1.51	0.92
2:C:182:VAL:HG21	2:C:193:LEU:HB3	1.50	0.92
2:C:685:GLU:OE2	7:X:41:ASP:HB2	1.69	0.92
2:M:834:GLN:NE2	3:N:724:GLN:HG3	1.85	0.92
5:R:20:DG:H1	6:S:11:C:H42	0.94	0.92
1:L:212:ASN:O	1:L:215:VAL:HG22	1.70	0.92
2:H:181:VAL:HG12	2:H:182:VAL:N	1.84	0.91
2:H:1106:ASP:OD1	3:I:7:LYS:HD2	1.69	0.91
2:C:834:GLN:HE22	3:D:724:GLN:HG3	1.34	0.91
3:I:908:LYS:HB2	3:I:1027:GLY:HA3	1.52	0.91
3:I:554:LEU:O	3:I:558:LEU:HG	1.70	0.91
3:D:50:PHE:CG	3:D:522:PRO:HG2	2.04	0.91
3:N:162:ARG:HB3	3:N:452:ILE:HG21	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:40:GLU:HG3	2:H:41:ASN:H	1.35	0.91
2:H:861:LEU:HG	2:H:862:PRO:HD2	1.49	0.91
3:I:41:ARG:HB3	3:I:46:ASP:OD1	1.69	0.91
3:N:373:PRO:HA	3:N:376:GLU:OE2	1.70	0.91
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.51	0.91
2:H:1093:GLN:HB3	3:I:21:TRP:HZ3	1.33	0.91
3:D:158:TYR:O	3:D:162:ARG:HB2	1.71	0.91
3:N:997:THR:HG21	7:Z:61:ARG:NH2	1.85	0.91
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.49	0.91
2:H:1065:ALA:HB1	2:H:1077:PRO:HG2	1.51	0.91
2:M:689:VAL:HB	2:M:870:ILE:HG12	1.49	0.91
2:H:99:GLN:HE21	2:H:101:ILE:HD11	1.33	0.91
1:B:212:ASN:O	1:B:215:VAL:HG22	1.70	0.91
2:C:943:VAL:HG23	2:C:985:GLY:H	1.36	0.91
2:C:374:ASN:H	2:C:374:ASN:HD22	1.18	0.91
3:N:50:PHE:CD1	3:N:522:PRO:HG2	2.04	0.91
3:I:141:ILE:HD13	3:I:142:LEU:N	1.85	0.91
2:M:6:PHE:CZ	2:M:901:TYR:CD2	2.55	0.91
3:I:654:LYS:HB3	3:I:655:PRO:HD3	1.49	0.91
2:H:943:VAL:HG23	2:H:985:GLY:H	1.36	0.91
2:H:1086:ARG:CZ	3:I:88:TYR:HE2	1.70	0.91
3:I:12:LEU:CD2	3:I:104:PHE:HE1	1.84	0.91
1:K:112:ARG:HH21	1:K:125:PRO:HB2	1.35	0.91
1:G:212:ASN:O	1:G:215:VAL:HG22	1.70	0.91
3:I:1412:LYS:O	3:I:1414:PRO:HD3	1.69	0.91
1:B:187:GLY:O	3:D:688:TRP:HD1	1.54	0.91
2:M:39:ARG:CD	2:M:45:GLN:CD	2.39	0.91
2:C:564:MET:HE1	2:C:846:LYS:CE	2.01	0.91
3:D:28:LYS:O	3:D:43:GLY:CA	2.19	0.91
3:D:139:GLY:O	3:D:147:VAL:CG1	2.18	0.91
3:D:134:VAL:O	3:D:454:ALA:HB1	1.70	0.91
3:I:615:ARG:HG3	3:I:619:LEU:HG	1.53	0.91
2:H:834:GLN:HE22	3:I:724:GLN:HG3	1.34	0.91
1:F:218:LEU:HD23	1:G:222:LEU:HD21	1.52	0.91
3:I:1111:ASP:OD1	3:I:1203:LYS:HD2	1.70	0.91
1:L:165:ILE:H	1:L:165:ILE:HD13	1.36	0.91
3:N:783:ARG:HH11	7:Z:41:ASP:HB2	0.75	0.91
3:I:12:LEU:HD21	3:I:104:PHE:HE1	1.02	0.91
2:H:1075:ASP:OD1	4:J:31:LEU:HD11	1.71	0.91
3:N:676:MET:HE1	3:N:684:LYS:HE3	1.52	0.90
2:H:21:ILE:H	2:H:21:ILE:CD1	1.82	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:36:LEU:O	1:F:39:PRO:HD2	1.71	0.90
2:H:958:THR:HG23	2:H:961:GLU:HG3	1.51	0.90
2:C:958:THR:HG23	2:C:961:GLU:HG3	1.52	0.90
2:M:242:LEU:HD11	2:M:254:VAL:HG11	1.52	0.90
3:I:764:LEU:HD12	3:I:765:SER:H	1.36	0.90
1:A:36:LEU:O	1:A:39:PRO:HD2	1.71	0.90
2:H:1030:GLN:NE2	3:I:628:ARG:CD	2.34	0.90
3:D:1258:ARG:NH1	3:D:1262:LEU:HD13	1.85	0.90
3:I:1257:PRO:HA	3:I:1260:ILE:HD12	1.54	0.90
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.53	0.90
2:H:1083:GLU:OE2	2:H:1086:ARG:HD2	1.71	0.90
3:N:86:ARG:CZ	3:N:523:ASP:OD1	2.19	0.90
3:N:373:PRO:HA	3:N:376:GLU:CD	1.91	0.90
7:X:81:GLU:O	7:X:154:ILE:HD12	1.69	0.90
3:N:486:ARG:HA	3:N:489:ARG:HG2	1.51	0.90
3:D:683:ILE:HD13	3:D:687:VAL:HG21	1.52	0.90
2:H:140:ILE:HD11	2:H:412:ALA:HA	1.54	0.90
2:H:129:ILE:HG12	2:H:386:PHE:HB3	1.53	0.90
2:C:221:LEU:HD12	2:C:222:MET:N	1.86	0.90
3:N:137:PRO:HD3	3:N:453:ASP:HB2	1.53	0.90
2:C:1083:GLU:OE2	2:C:1086:ARG:HD2	1.71	0.90
3:D:1286:THR:HG22	3:D:1287:GLU:H	1.36	0.90
1:K:36:LEU:O	1:K:39:PRO:HD2	1.71	0.90
2:C:854:PRO:HB2	2:C:856:GLU:HG3	1.54	0.90
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.70	0.90
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.06	0.90
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.02	0.90
3:D:50:PHE:CG	3:D:522:PRO:CG	2.54	0.90
2:M:1083:GLU:OE2	2:M:1086:ARG:HD2	1.71	0.90
1:G:41:ARG:HG3	1:G:177:VAL:HG21	1.53	0.90
1:G:67:THR:OG1	1:L:159:LYS:HG3	1.72	0.90
2:H:676:ILE:HG21	2:H:988:VAL:HG13	1.53	0.90
3:D:127:LEU:O	3:D:457:GLY:CA	2.16	0.90
2:M:943:VAL:HG23	2:M:985:GLY:H	1.36	0.90
2:H:292:ARG:HG2	2:H:299:LYS:HB3	1.51	0.90
1:A:67:THR:HG21	2:C:609:ASN:ND2	1.87	0.90
2:M:188:LYS:NZ	2:M:188:LYS:CB	2.35	0.90
3:I:482:LYS:HE2	3:I:1388:ARG:NH2	1.87	0.90
2:M:111:ASP:OD2	2:M:369:PRO:CB	2.19	0.89
3:I:87:ARG:CG	3:I:523:ASP:HB2	2.01	0.89
2:M:1030:GLN:NE2	3:N:628:ARG:CD	2.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:ASP:CB	3:D:872:ARG:HH22	1.85	0.89
3:I:181:ASP:HA	3:I:205:TYR:CD2	2.06	0.89
2:H:54:ILE:HG22	2:H:66:LEU:H	1.37	0.89
3:D:392:SER:C	3:D:393:ILE:HD12	1.91	0.89
2:C:208:ALA:CB	2:C:222:MET:SD	2.60	0.89
2:C:1097:LEU:CD1	3:D:1451:ALA:HB2	2.03	0.89
3:I:204:LEU:O	3:I:393:ILE:HA	1.72	0.89
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.08	0.89
3:N:764:LEU:HD12	3:N:765:SER:H	1.36	0.89
1:L:228:PRO:O	1:L:229:GLN:HG3	1.72	0.89
3:D:102:ILE:HB	3:D:579:ASP:OD1	1.72	0.89
2:H:182:VAL:CG1	2:H:193:LEU:CD1	2.49	0.89
2:M:1099:VAL:HG22	3:N:10:ILE:CG1	2.02	0.89
3:D:153:LEU:CD1	3:D:158:TYR:HB2	2.02	0.89
2:H:878:SER:CA	3:I:1034:GLN:HE22	1.84	0.89
3:D:982:PHE:CE1	7:X:100:LEU:HD21	2.07	0.89
2:M:854:PRO:HB2	2:M:856:GLU:HG3	1.54	0.89
2:M:564:MET:SD	2:M:846:LYS:HD2	2.13	0.89
3:N:28:LYS:O	3:N:43:GLY:CA	2.19	0.89
2:H:878:SER:HA	3:I:1034:GLN:NE2	1.87	0.89
2:M:958:THR:HG23	2:M:961:GLU:HG3	1.52	0.89
3:I:774:SER:HB3	3:I:1362:LYS:O	1.72	0.89
2:H:1019:GLN:OE1	3:I:621:LYS:CD	2.19	0.89
1:B:187:GLY:CA	3:D:685:ASP:CB	2.46	0.89
3:D:1263:PHE:HE2	3:D:1371:VAL:HG11	1.38	0.89
2:H:576:ALA:HB3	2:H:900:ARG:HH11	1.33	0.89
2:H:601:GLY:HA2	2:H:616:GLU:HG2	1.55	0.89
2:C:193:LEU:HD21	2:C:307:LEU:CD2	1.99	0.89
3:I:131:LYS:HG3	3:I:568:ARG:NE	1.85	0.89
3:I:615:ARG:CD	3:I:619:LEU:HD21	2.02	0.89
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.07	0.89
2:M:140:ILE:HD11	2:M:331:ARG:HH21	1.34	0.89
2:C:455:LEU:HD13	2:C:459:ALA:HB3	1.54	0.89
3:I:154:THR:HG23	3:I:157:GLU:HB2	1.54	0.89
3:D:124:GLU:CG	3:D:128:TYR:CE1	2.56	0.89
2:C:185:LYS:HD2	2:C:190:LYS:CG	2.02	0.89
3:D:139:GLY:O	3:D:147:VAL:CB	2.21	0.89
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.55	0.89
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.50	0.89
4:O:18:ARG:HB2	4:O:18:ARG:HH21	1.37	0.89
2:C:1093:GLN:HB3	3:D:21:TRP:HZ3	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:195:LEU:O	2:H:199:VAL:HG23	1.72	0.89
3:I:1256:LEU:HB3	3:I:1257:PRO:HD3	1.55	0.89
2:M:654:LEU:HD23	2:M:654:LEU:H	1.38	0.89
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.55	0.89
3:N:1468:LEU:HD13	3:N:1470:ARG:HE	1.35	0.89
3:N:81:THR:CG2	3:N:82:LYS:N	2.30	0.89
2:M:697:ARG:HD2	2:M:699:PHE:CD1	2.08	0.89
1:B:41:ARG:NH1	1:B:177:VAL:HG23	1.88	0.89
3:D:387:LEU:H	3:D:387:LEU:HD12	1.38	0.89
1:G:76:VAL:CB	3:I:872:ARG:NH1	2.35	0.89
3:I:408:GLU:CG	3:I:409:VAL:H	1.85	0.89
2:C:911:GLU:OE1	3:D:951:ILE:CD1	2.19	0.89
2:M:794:PRO:HD2	2:M:1024:LYS:O	1.72	0.89
2:C:215:GLY:O	2:C:216:GLU:HB3	1.72	0.89
3:N:356:PRO:HG2	3:N:359:ALA:HB2	1.55	0.88
1:A:112:ARG:HH21	1:A:125:PRO:HB2	1.35	0.88
1:B:54:THR:O	1:B:167:VAL:HG23	1.73	0.88
2:M:368:THR:O	2:M:372:LEU:HD12	1.72	0.88
1:A:42:ARG:NH1	1:B:34:VAL:CG1	2.35	0.88
1:A:42:ARG:HH12	1:B:34:VAL:CB	1.86	0.88
3:I:1292:VAL:HG11	3:I:1325:LEU:HG	1.54	0.88
3:D:764:LEU:HD12	3:D:765:SER:H	1.35	0.88
3:D:1066:THR:HG22	3:D:1069:GLU:HB2	1.55	0.88
3:N:44:LEU:O	3:N:50:PHE:CE1	2.27	0.88
1:L:74:ASP:CB	3:N:872:ARG:HH22	1.86	0.88
3:N:1031:ASN:ND2	7:Z:32:ILE:HG23	1.88	0.88
2:H:455:LEU:HD13	2:H:459:ALA:HB3	1.54	0.88
2:C:642:ARG:HD3	2:C:642:ARG:O	1.74	0.88
3:N:868:TYR:CD1	3:N:869:MET:HG3	2.09	0.88
2:M:457:ALA:HB3	2:M:538:GLN:HA	1.56	0.88
2:M:69:LEU:HD11	2:M:99:GLN:HG2	1.56	0.88
4:J:54:LEU:HG	4:J:58:PRO:HG2	1.55	0.88
3:N:15:PRO:CB	3:N:515:GLU:OE1	2.21	0.88
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.54	0.88
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.55	0.88
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.03	0.88
3:D:164:GLY:HA3	3:D:449:SER:HB3	1.54	0.88
2:C:265:ARG:H	2:C:289:THR:HG21	1.36	0.88
3:N:1266:ARG:O	3:N:1268:PRO:HD3	1.73	0.88
2:H:642:ARG:HD3	2:H:642:ARG:O	1.74	0.88
2:C:1081:VAL:CG2	2:C:1111:ILE:HG22	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:98:LEU:HD12	2:H:98:LEU:N	1.89	0.88
3:D:142:LEU:HB3	3:D:145:VAL:O	1.73	0.88
2:C:198:ARG:HD3	2:C:228:ALA:HA	1.56	0.88
2:M:113:VAL:HG21	2:M:373:VAL:HG11	1.56	0.88
2:H:73:LEU:HD22	2:H:118:ILE:HD11	1.56	0.88
3:D:868:TYR:CD1	3:D:869:MET:HG3	2.09	0.88
2:H:457:ALA:HB3	2:H:538:GLN:HA	1.56	0.88
2:M:100:LEU:O	2:M:108:ILE:HG23	1.73	0.88
1:B:228:PRO:O	1:B:229:GLN:HG3	1.72	0.88
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.04	0.88
1:B:75:VAL:O	1:B:79:ILE:HG23	1.74	0.88
2:C:129:ILE:HG22	2:C:130:ASN:N	1.89	0.88
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.56	0.88
1:G:165:ILE:H	1:G:165:ILE:HD13	1.37	0.87
3:I:982:PHE:CD1	7:Y:125:MET:SD	2.66	0.87
2:H:21:ILE:N	2:H:21:ILE:HD12	1.88	0.87
3:I:661:MET:O	3:I:664:LYS:O	1.92	0.87
2:H:654:LEU:HD23	2:H:654:LEU:H	1.39	0.87
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.55	0.87
2:M:174:LEU:HD22	2:M:193:LEU:HD21	1.56	0.87
2:M:282:GLY:O	2:M:283:ILE:HG12	1.73	0.87
3:I:13:ALA:HB1	3:I:18:ILE:HD11	1.56	0.87
2:H:469:THR:HG23	2:H:470:PRO:HD2	1.56	0.87
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.73	0.87
2:C:21:ILE:HD12	2:C:21:ILE:H	1.40	0.87
3:D:152:LEU:H	3:D:152:LEU:HD23	1.40	0.87
2:H:854:PRO:HB2	2:H:856:GLU:HG3	1.54	0.87
2:M:165:LEU:HG	2:M:166:PRO:HA	1.56	0.87
2:C:185:LYS:HG3	2:C:190:LYS:HB3	1.56	0.87
3:N:675:ARG:O	3:N:679:ARG:CB	2.21	0.87
2:M:129:ILE:HG12	2:M:134:ARG:CD	2.04	0.87
3:I:41:ARG:CA	3:I:46:ASP:OD1	2.22	0.87
3:D:661:MET:O	3:D:664:LYS:O	1.92	0.87
3:N:166:GLN:HG2	3:N:396:VAL:HG12	1.53	0.87
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.75	0.87
3:D:206:ARG:HD3	3:D:394:LEU:HD21	1.56	0.87
3:D:166:GLN:HE22	3:D:394:LEU:HB2	1.37	0.87
2:H:182:VAL:HG12	2:H:193:LEU:CD1	2.05	0.87
3:I:119:SER:CB	3:I:123:LEU:HB2	2.05	0.87
3:D:89:ARG:O	3:D:521:PRO:HG3	1.75	0.87
3:D:706:PRO:HD3	6:Q:16:G:H21	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:661:MET:O	3:N:664:LYS:O	1.92	0.87
3:I:1066:THR:HG22	3:I:1069:GLU:HB2	1.56	0.87
3:D:157:GLU:O	3:D:161:LEU:HD13	1.74	0.87
3:D:353:VAL:HA	3:D:368:VAL:HG22	1.54	0.87
2:H:1085:PHE:CE2	3:I:1468:LEU:HG	2.09	0.87
2:C:208:ALA:HB2	2:C:222:MET:SD	2.15	0.87
7:X:24:GLU:HA	7:X:27:GLN:NE2	1.89	0.87
2:M:642:ARG:HD3	2:M:642:ARG:O	1.74	0.87
4:O:54:LEU:HD23	4:O:58:PRO:HD2	1.56	0.87
2:H:15:LEU:HD12	2:H:15:LEU:H	1.39	0.87
2:C:170:PRO:HG2	2:C:258:TYR:CD1	2.10	0.87
3:N:970:LYS:NZ	7:Z:113:LEU:CB	2.34	0.87
2:M:399:ASN:HD22	2:M:568:ALA:HB3	1.39	0.87
3:I:115:LEU:HD12	3:I:502:PHE:HE1	1.40	0.87
2:M:235:LEU:HD11	2:M:298:PHE:HZ	1.39	0.87
3:I:606:ILE:O	3:I:613:ARG:HG2	1.73	0.87
3:I:1266:ARG:O	3:I:1268:PRO:HD3	1.73	0.87
1:K:91:ASN:OD1	1:K:92:PRO:HD2	1.75	0.87
1:F:156:HIS:HD2	1:F:157:GLY:H	1.23	0.87
3:I:868:TYR:CD1	3:I:869:MET:HG3	2.09	0.87
1:F:91:ASN:OD1	1:F:92:PRO:HD2	1.75	0.87
7:X:59:GLU:O	7:X:62:ILE:HG22	1.74	0.87
2:H:69:LEU:HD12	2:H:97:ARG:HB3	1.56	0.87
2:C:113:VAL:O	2:C:115:LEU:HD23	1.73	0.87
1:B:74:ASP:HB2	3:D:872:ARG:NH2	1.89	0.87
2:H:1014:SER:HB2	2:H:1021:LEU:HD13	1.56	0.87
2:C:276:LYS:HA	2:C:280:LYS:HD2	1.56	0.87
2:H:1081:VAL:HG21	2:H:1111:ILE:CG2	2.05	0.86
2:H:185:LYS:HD2	2:H:190:LYS:CG	2.03	0.86
1:L:76:VAL:HB	3:N:872:ARG:HH12	1.38	0.86
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.56	0.86
1:F:54:THR:HG22	1:F:158:ILE:CD1	2.05	0.86
3:N:1066:THR:HG22	3:N:1069:GLU:HB2	1.56	0.86
2:C:879:ARG:CZ	7:X:42:ASP:CG	2.44	0.86
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.56	0.86
2:C:182:VAL:HG11	2:C:193:LEU:HD22	1.54	0.86
3:I:141:ILE:HD13	3:I:142:LEU:H	1.39	0.86
3:I:131:LYS:HB2	3:I:568:ARG:NE	1.90	0.86
2:M:564:MET:CE	2:M:846:LYS:CE	2.53	0.86
2:C:878:SER:OG	3:D:1029:ARG:NE	2.07	0.86
2:M:831:ARG:HD2	2:M:1000:MET:SD	2.15	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.04	0.86
3:N:50:PHE:CE2	3:N:522:PRO:HD3	2.08	0.86
3:D:186:VAL:HA	3:D:200:ASP:OD1	1.74	0.86
2:M:172:ILE:N	2:M:172:ILE:HD12	1.90	0.86
2:M:88:LEU:HD22	2:M:814:GLU:HG2	1.57	0.86
3:I:991:GLN:NE2	7:Y:112:VAL:HG23	1.88	0.86
3:N:676:MET:O	3:N:680:GLN:CB	2.24	0.86
2:C:654:LEU:HD23	2:C:654:LEU:H	1.38	0.86
3:N:1384:PRO:HG3	3:N:1389:LEU:HB3	1.57	0.86
1:A:54:THR:HG22	1:A:158:ILE:CD1	2.05	0.86
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.01	0.86
3:N:203:ALA:HB1	3:N:393:ILE:HG21	1.57	0.86
3:N:135:LEU:HD13	3:N:148:GLU:O	1.75	0.86
2:C:408:ARG:HH21	2:C:455:LEU:CD1	1.88	0.86
2:H:18:LEU:HD13	2:H:590:ASP:OD2	1.75	0.86
2:M:1105:LYS:NZ	2:M:1107:ASN:HB2	1.90	0.86
2:H:200:LEU:HD13	2:H:300:ASP:CG	1.95	0.86
3:I:23:TYR:O	3:I:49:ILE:HG23	1.75	0.86
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.58	0.86
3:N:1263:PHE:HE2	3:N:1371:VAL:HG11	1.38	0.86
2:H:245:GLY:O	2:H:246:ASP:OD1	1.93	0.86
3:I:202:VAL:O	3:I:395:VAL:HA	1.75	0.86
3:I:1263:PHE:HE2	3:I:1371:VAL:HG11	1.38	0.86
3:N:625:TYR:HB3	3:N:749:VAL:HG23	1.56	0.86
3:I:421:LEU:HD22	3:I:444:VAL:HG11	1.58	0.86
2:M:1088:LEU:HD23	2:M:1092:LEU:HD12	1.56	0.86
3:I:813:LEU:O	3:I:817:GLU:HB2	1.76	0.86
1:K:54:THR:HG22	1:K:158:ILE:CD1	2.05	0.86
3:I:127:LEU:HD12	3:I:127:LEU:O	1.76	0.86
2:C:879:ARG:NH2	7:X:42:ASP:HB2	1.90	0.86
2:M:569:VAL:HG12	2:M:996:LYS:O	1.76	0.86
2:C:831:ARG:HD2	2:C:1000:MET:SD	2.15	0.86
3:I:181:ASP:HA	3:I:205:TYR:HD2	1.39	0.86
2:H:879:ARG:NH2	7:Y:42:ASP:HB2	1.90	0.86
2:C:316:GLY:C	2:C:318:PRO:HD3	1.96	0.86
3:D:1102:THR:HA	3:D:1105:ILE:HD13	1.58	0.85
3:I:1211:MET:HG2	3:I:1212:ALA:N	1.91	0.85
1:A:42:ARG:HH12	1:B:34:VAL:HB	1.38	0.85
1:A:156:HIS:HD2	1:A:157:GLY:H	1.23	0.85
3:N:1288:GLU:O	3:N:1289:LYS:HG3	1.76	0.85
2:C:473:ARG:HB2	2:C:531:PHE:CE1	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:979:THR:HG23	2:C:981:GLU:H	1.41	0.85
3:N:1359:GLN:HE22	7:Z:52:LYS:HD3	1.41	0.85
3:N:119:SER:CB	3:N:123:LEU:HB2	2.05	0.85
2:H:1097:LEU:CD1	3:I:1451:ALA:HB2	2.06	0.85
1:G:112:ARG:CG	1:G:125:PRO:HB3	2.06	0.85
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.56	0.85
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.56	0.85
2:C:1088:LEU:HD23	2:C:1092:LEU:HD12	1.56	0.85
2:H:1105:LYS:NZ	2:H:1107:ASN:HB2	1.90	0.85
2:M:157:ARG:HH12	2:M:217:LEU:HD22	1.41	0.85
2:M:184:MET:SD	2:M:303:PHE:HE2	2.00	0.85
3:N:764:LEU:HD12	3:N:765:SER:N	1.91	0.85
2:M:1046:ALA:HA	3:N:1472:ILE:HD11	1.58	0.85
2:M:64:LEU:HD22	2:M:359:MET:HB2	1.54	0.85
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.75	0.85
2:H:181:VAL:CG1	2:H:182:VAL:H	1.86	0.85
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.07	0.85
4:J:54:LEU:HD23	4:J:58:PRO:HD2	1.58	0.85
3:D:1211:MET:HG2	3:D:1212:ALA:N	1.91	0.85
2:M:31:GLN:HG3	2:M:34:VAL:HG22	1.57	0.85
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.59	0.85
2:M:188:LYS:HG3	2:M:188:LYS:O	1.73	0.85
3:I:182:GLY:HA3	3:I:441:ARG:HH11	1.41	0.85
2:C:1105:LYS:NZ	2:C:1107:ASN:HB2	1.90	0.85
1:G:62:LEU:HD12	1:G:63:HIS:H	1.42	0.85
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.57	0.85
2:H:265:ARG:HG2	2:H:267:TYR:CG	2.10	0.85
2:H:1088:LEU:HD23	2:H:1092:LEU:HD12	1.56	0.85
3:I:611:GLN:NE2	6:S:9:U:H4'	1.92	0.85
1:A:73:GLU:HB2	1:A:78:ILE:HD11	1.57	0.85
3:D:355:VAL:HG11	3:D:385:VAL:HG21	1.57	0.85
3:D:50:PHE:HD2	3:D:522:PRO:HD3	1.40	0.85
3:N:1211:MET:HG2	3:N:1212:ALA:N	1.91	0.85
2:H:408:ARG:HH21	2:H:455:LEU:HD11	1.39	0.85
2:M:408:ARG:HH21	2:M:455:LEU:HD11	1.39	0.85
2:M:979:THR:HG23	2:M:981:GLU:H	1.41	0.85
3:D:1133:ARG:HH12	7:X:23:ARG:HH12	1.24	0.85
3:I:131:LYS:CG	3:I:568:ARG:NE	2.39	0.85
3:I:764:LEU:HD12	3:I:765:SER:N	1.91	0.85
3:N:481:MET:HE3	3:N:493:ARG:HA	1.59	0.85
2:M:958:THR:HG23	2:M:961:GLU:CG	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:771:SER:HB2	3:I:778:LEU:HD13	1.59	0.85
4:E:25:LYS:HA	4:E:28:GLN:NE2	1.92	0.85
3:I:1122:LEU:HD11	3:I:1186:VAL:HG23	1.58	0.85
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.55	0.85
3:D:172:PRO:CG	3:D:175:VAL:HG21	2.07	0.85
3:I:1468:LEU:HD22	3:I:1470:ARG:HB2	1.57	0.85
3:N:813:LEU:O	3:N:817:GLU:HB2	1.77	0.85
2:H:342:ASP:O	2:H:345:ARG:HG2	1.77	0.85
3:N:1031:ASN:HD21	7:Z:32:ILE:CG2	1.90	0.85
3:I:813:LEU:HD12	3:I:814:ALA:N	1.92	0.85
2:M:317:VAL:CG1	2:M:320:HIS:NE2	2.39	0.85
1:K:156:HIS:HD2	1:K:157:GLY:H	1.23	0.85
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.11	0.85
2:C:170:PRO:CD	2:C:263:ASP:HB3	2.07	0.85
3:N:87:ARG:O	3:N:521:PRO:CB	2.24	0.85
3:D:139:GLY:CA	3:D:162:ARG:HH22	1.85	0.85
3:I:483:HIS:HB2	3:I:484:PRO:HD3	1.59	0.85
2:C:1056:LYS:HD3	3:D:623:VAL:CG1	2.07	0.85
2:C:676:ILE:HG21	2:C:988:VAL:HG13	1.58	0.84
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.58	0.84
3:N:1037:GLN:HG2	3:N:1042:ARG:HB3	1.59	0.84
3:D:157:GLU:O	3:D:161:LEU:HD11	1.76	0.84
2:H:678:PRO:HG2	3:I:947:ILE:HD11	1.58	0.84
2:C:170:PRO:HD2	2:C:263:ASP:HB3	1.59	0.84
2:M:564:MET:CE	2:M:846:LYS:CD	2.55	0.84
2:M:399:ASN:ND2	2:M:568:ALA:HB3	1.93	0.84
2:M:305:PRO:HA	2:M:308:ARG:HB3	1.58	0.84
7:Z:119:ILE:CG1	7:Z:125:MET:HE1	2.00	0.84
3:I:810:GLU:O	3:I:813:LEU:HG	1.77	0.84
2:C:958:THR:HG23	2:C:961:GLU:CG	2.07	0.84
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.58	0.84
2:H:242:LEU:O	2:H:243:ARG:HG3	1.77	0.84
2:H:197:LEU:HD13	2:H:207:LEU:HD11	1.58	0.84
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.58	0.84
3:N:169:TYR:OH	3:N:198:ARG:HG3	1.76	0.84
2:H:572:ILE:HD12	2:H:573:ARG:N	1.92	0.84
3:I:465:LEU:HD13	3:I:510:GLU:HA	1.59	0.84
1:A:39:PRO:HG3	1:B:39:PRO:CG	2.08	0.84
2:H:383:ARG:HH11	2:H:383:ARG:HB2	1.41	0.84
2:M:383:ARG:HH11	2:M:383:ARG:HB2	1.42	0.84
1:L:27:PRO:O	1:L:28:LEU:HD23	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1288:GLU:O	3:I:1289:LYS:HG3	1.76	0.84
2:C:305:PRO:HG3	2:C:308:ARG:NH2	1.91	0.84
1:B:187:GLY:HA3	3:D:685:ASP:HB2	1.58	0.84
2:M:139:GLN:OE1	2:M:418:LEU:HD22	1.77	0.84
3:I:1037:GLN:HG2	3:I:1042:ARG:HB3	1.59	0.84
3:I:1209:LEU:HD21	4:J:16:LYS:NZ	1.90	0.84
3:D:764:LEU:HD12	3:D:765:SER:N	1.91	0.84
2:H:979:THR:HG23	2:H:981:GLU:H	1.41	0.84
2:H:571:LEU:HD11	2:H:701:THR:N	1.92	0.84
3:D:160:GLU:OE2	3:D:397:LYS:HD2	1.78	0.84
3:D:174:GLY:H	3:D:209:ARG:NH1	1.76	0.84
3:I:643:GLY:HA3	3:I:727:GLN:HB2	1.57	0.84
2:C:304:LEU:CD2	2:C:305:PRO:HD3	2.06	0.84
2:M:576:ALA:HB3	2:M:900:ARG:NH1	1.92	0.84
1:K:42:ARG:HH12	1:L:34:VAL:CB	1.89	0.84
4:O:6:ILE:HD11	4:O:10:PHE:CZ	2.12	0.84
2:M:503:LEU:HD23	2:M:507:ARG:O	1.76	0.84
1:G:27:PRO:O	1:G:28:LEU:HD23	1.76	0.84
2:C:198:ARG:NH1	2:C:228:ALA:O	2.10	0.84
3:I:554:LEU:HD11	3:I:558:LEU:HD21	1.58	0.84
3:I:108:VAL:HB	3:I:109:PRO:HD3	1.58	0.84
3:D:813:LEU:HD12	3:D:814:ALA:N	1.92	0.84
3:D:31:THR:CG2	3:D:545:ARG:HD3	2.08	0.84
3:I:1114:THR:CG2	3:I:1195:GLN:HB3	2.08	0.84
3:N:1103:HIS:HD2	3:N:1463:LYS:HB2	1.41	0.84
3:D:771:SER:HB2	3:D:778:LEU:HD13	1.59	0.84
2:C:1098:ASP:HB3	3:D:11:ALA:O	1.76	0.84
3:I:809:PRO:HB2	3:I:812:ALA:CB	2.08	0.84
2:H:958:THR:HG23	2:H:961:GLU:CG	2.07	0.84
1:A:153:ALA:HA	1:A:156:HIS:NE2	1.93	0.84
2:H:395:LYS:O	2:H:397:GLU:HG3	1.78	0.84
3:D:96:ALA:HB3	3:D:554:LEU:HD23	1.59	0.84
2:H:182:VAL:CG1	2:H:193:LEU:CG	2.56	0.84
2:M:1089:VAL:O	2:M:1093:GLN:HG2	1.78	0.84
2:H:261:ILE:CD1	2:H:262:ALA:H	1.90	0.84
3:D:813:LEU:O	3:D:817:GLU:HB2	1.77	0.84
3:I:14:SER:O	3:I:18:ILE:HG12	1.76	0.84
7:X:111:ASN:OD1	7:X:113:LEU:HD12	1.76	0.84
3:D:987:GLU:OE1	7:X:120:SER:HB2	1.78	0.84
3:N:465:LEU:HD13	3:N:510:GLU:HA	1.59	0.84
2:H:218:VAL:HG13	2:H:221:LEU:HD11	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:142:LEU:CB	3:I:145:VAL:O	2.24	0.84
2:M:334:ARG:HH21	2:M:339:LEU:HD23	1.42	0.84
3:N:813:LEU:HD12	3:N:814:ALA:N	1.92	0.84
1:K:25:LEU:CD2	1:L:225:PHE:CE2	2.61	0.84
2:M:675:ALA:CA	2:M:989:VAL:HG12	2.07	0.84
1:F:221:HIS:NE2	1:G:32:PHE:CE2	2.46	0.84
2:H:950:LEU:HB3	2:H:952:LEU:HD23	1.57	0.84
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.58	0.84
3:D:181:ASP:HA	3:D:205:TYR:CD2	2.13	0.83
3:N:1029:ARG:CB	3:N:1029:ARG:HH11	1.90	0.83
2:M:1005:MET:SD	3:N:724:GLN:OE1	2.36	0.83
3:N:956:ILE:HD11	3:N:1062:ARG:CB	2.08	0.83
3:D:465:LEU:HD13	3:D:510:GLU:HA	1.59	0.83
3:I:28:LYS:CD	3:I:29:PRO:HD2	2.08	0.83
1:F:153:ALA:HA	1:F:156:HIS:NE2	1.93	0.83
2:C:501:THR:HG22	2:C:513:VAL:HG13	1.61	0.83
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.07	0.83
2:H:1052:MET:SD	3:I:623:VAL:CG1	2.66	0.83
3:I:1209:LEU:HD21	4:J:16:LYS:CE	2.07	0.83
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.59	0.83
3:I:1359:GLN:HE22	7:Y:52:LYS:HD3	1.43	0.83
1:B:27:PRO:O	1:B:28:LEU:HD23	1.76	0.83
7:Z:111:ASN:OD1	7:Z:113:LEU:HD12	1.76	0.83
2:M:111:ASP:HB3	2:M:369:PRO:CG	2.07	0.83
2:H:572:ILE:HG23	2:H:703:ILE:HD11	1.60	0.83
3:I:101:HIS:HD1	3:I:103:TRP:HB2	1.42	0.83
3:D:810:GLU:O	3:D:813:LEU:HG	1.77	0.83
3:N:1359:GLN:O	7:Z:37:MET:SD	2.36	0.83
2:H:831:ARG:HD2	2:H:1000:MET:SD	2.19	0.83
3:I:1235:GLN:NE2	7:Y:37:MET:HG3	1.93	0.83
3:N:984:THR:HG22	3:N:987:GLU:CG	2.08	0.83
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.59	0.83
2:M:368:THR:HB	2:M:369:PRO:HD2	1.60	0.83
2:C:557:ARG:NH1	2:C:560:MET:HG3	1.93	0.83
3:D:153:LEU:HD13	3:D:158:TYR:HB2	1.60	0.83
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.44	0.83
2:H:557:ARG:NH1	2:H:560:MET:HG3	1.93	0.83
3:I:160:GLU:HG2	3:I:165:LYS:CG	2.08	0.83
2:C:122:THR:HB	2:C:124:ASP:OD1	1.78	0.83
3:D:1387:SER:HB3	3:D:1391:GLU:OE2	1.77	0.83
3:I:997:THR:HG21	7:Y:61:ARG:CZ	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:166:GLN:HB3	2:H:210:GLU:HG3	1.60	0.83
1:F:42:ARG:HH12	1:G:34:VAL:CB	1.90	0.83
3:N:421:LEU:HD22	3:N:444:VAL:HG11	1.58	0.83
3:I:1256:LEU:O	3:I:1260:ILE:HG13	1.79	0.83
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.08	0.83
3:N:581:LEU:H	3:N:581:LEU:HD23	1.43	0.83
3:I:1025:GLN:HA	3:I:1025:GLN:HE21	1.43	0.83
2:C:195:LEU:O	2:C:199:VAL:HG23	1.79	0.83
2:C:1004:LYS:HD2	3:D:744:GLN:HE22	1.04	0.83
2:C:572:ILE:HD12	2:C:573:ARG:N	1.92	0.83
3:N:1007:VAL:HG11	3:N:1039:CYS:HB2	1.59	0.83
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.61	0.83
1:B:44:LEU:HA	1:B:48:ILE:HD13	1.61	0.83
3:D:207:PHE:O	3:D:390:PRO:HA	1.79	0.83
2:H:193:LEU:N	2:H:193:LEU:CD1	2.30	0.83
2:H:196:LEU:O	2:H:200:LEU:HG	1.78	0.83
3:I:991:GLN:HE22	7:Y:112:VAL:CB	1.91	0.83
1:L:133:GLU:HG3	1:L:134:GLU:H	1.40	0.83
2:H:182:VAL:CB	2:H:193:LEU:HD11	2.08	0.83
2:M:557:ARG:NH1	2:M:560:MET:HG3	1.94	0.83
2:M:172:ILE:H	2:M:172:ILE:HD12	1.43	0.83
2:M:572:ILE:HD12	2:M:573:ARG:N	1.92	0.83
3:N:810:GLU:O	3:N:813:LEU:HG	1.77	0.83
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.60	0.83
2:H:170:PRO:HD3	2:H:263:ASP:CB	2.08	0.83
2:H:258:TYR:CE2	2:H:290:LEU:HD11	2.14	0.83
1:G:185:ARG:HD3	3:I:692:GLU:OE2	1.79	0.83
2:M:69:LEU:HD11	2:M:99:GLN:CG	2.09	0.83
2:C:1099:VAL:CG2	3:D:10:ILE:HG12	2.09	0.83
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.59	0.83
7:Y:57:ARG:HB2	7:Y:57:ARG:NH2	1.94	0.83
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.44	0.83
2:H:502:PRO:HB2	2:H:509:ALA:HB3	1.59	0.83
7:Z:115:THR:HB	7:Z:116:PRO:HD3	1.60	0.83
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.44	0.83
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.61	0.83
3:N:28:LYS:CD	3:N:29:PRO:HD2	2.08	0.82
3:D:1099:VAL:O	3:D:1103:HIS:HB3	1.78	0.82
3:D:481:MET:SD	3:D:1388:ARG:HD3	2.19	0.82
3:I:432:TYR:HB3	3:I:450:TYR:HB2	1.59	0.82
3:N:189:GLN:NE2	3:N:190:GLU:H	1.77	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1097:LEU:HD11	3:N:1451:ALA:CB	2.07	0.82
2:M:675:ALA:HA	2:M:989:VAL:CG1	2.09	0.82
2:H:92:ALA:HB2	2:H:120:LEU:HD11	1.60	0.82
3:I:997:THR:HG21	7:Y:61:ARG:NH2	1.94	0.82
3:N:1106:VAL:HG12	3:N:1107:VAL:H	1.43	0.82
7:X:115:THR:HB	7:X:116:PRO:HD3	1.60	0.82
2:H:1081:VAL:CG1	2:H:1085:PHE:HB3	2.10	0.82
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.09	0.82
1:G:133:GLU:HG3	1:G:134:GLU:H	1.45	0.82
3:I:513:ILE:HD12	3:I:513:ILE:O	1.80	0.82
2:C:1081:VAL:CG1	2:C:1085:PHE:HB3	2.09	0.82
3:I:1476:THR:HG23	4:J:21:VAL:HG22	1.59	0.82
3:D:984:THR:HG22	3:D:987:GLU:CG	2.08	0.82
3:D:620:GLY:O	3:D:621:LYS:HG2	1.78	0.82
2:H:500:ASN:HD22	2:H:500:ASN:N	1.76	0.82
3:N:970:LYS:HD3	7:Z:113:LEU:CD2	2.09	0.82
2:M:1090:LYS:HE3	3:N:90:MET:HG3	1.57	0.82
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.61	0.82
2:M:333:ILE:N	2:M:333:ILE:HD12	1.95	0.82
2:M:1030:GLN:HE21	3:N:628:ARG:HD3	1.44	0.82
3:N:107:ASP:OD1	3:N:1444:THR:HG22	1.79	0.82
3:I:581:LEU:H	3:I:581:LEU:HD23	1.43	0.82
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.59	0.82
3:D:1037:GLN:HG2	3:D:1042:ARG:HB3	1.59	0.82
3:D:164:GLY:CA	3:D:449:SER:HB3	2.09	0.82
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.62	0.82
2:M:111:ASP:CB	2:M:369:PRO:CG	2.56	0.82
3:I:584:ASN:ND2	3:I:590:PRO:HD2	1.94	0.82
2:M:52:PHE:HZ	2:M:98:LEU:CG	1.93	0.82
3:N:977:ALA:HB1	3:N:983:LEU:HD21	1.62	0.82
3:N:1292:VAL:HG23	3:N:1305:LEU:HG	1.60	0.82
1:B:62:LEU:CD1	1:B:63:HIS:H	1.91	0.82
1:A:39:PRO:HG3	1:B:39:PRO:HG2	1.60	0.82
1:F:73:GLU:HB2	1:F:78:ILE:HD11	1.61	0.82
2:H:1072:LYS:O	3:I:659:LYS:HE2	1.80	0.82
3:I:984:THR:HG22	3:I:987:GLU:CG	2.08	0.82
2:H:274:ARG:HD2	2:H:285:LEU:HD22	1.59	0.82
2:H:1089:VAL:O	2:H:1093:GLN:HG2	1.79	0.82
2:H:1103:ASP:OD2	3:I:2:LYS:CA	2.22	0.82
3:D:1137:ARG:HH11	3:D:1137:ARG:HB2	1.45	0.82
2:H:351:LEU:HD12	2:H:374:ASN:ND2	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:637:LEU:HD21	3:I:642:CYS:HA	1.61	0.82
2:H:265:ARG:HB3	2:H:267:TYR:CZ	2.15	0.82
2:H:1095:LEU:HD12	2:H:1097:LEU:H	1.45	0.82
2:H:579:VAL:HG11	2:H:887:GLU:HG3	1.62	0.82
2:C:1089:VAL:O	2:C:1093:GLN:HG2	1.78	0.82
2:C:88:LEU:HD13	2:C:89:THR:N	1.95	0.82
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.10	0.82
3:N:133:ILE:HG22	3:N:134:VAL:H	1.45	0.82
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.62	0.82
2:M:274:ARG:CD	2:M:285:LEU:HD22	2.10	0.82
2:M:317:VAL:HG13	2:M:320:HIS:CE1	2.15	0.82
7:X:134:VAL:HG23	7:X:154:ILE:HG13	1.61	0.82
2:M:111:ASP:HB3	2:M:369:PRO:HG2	1.62	0.81
2:M:557:ARG:HG2	2:M:881:ASN:ND2	1.94	0.81
3:N:142:LEU:HB3	3:N:144:GLY:H	1.45	0.81
3:N:814:ALA:HB1	3:N:818:ARG:HH21	1.45	0.81
3:N:111:LYS:HG2	3:N:1452:ILE:HD11	1.61	0.81
2:H:578:VAL:HG23	2:H:579:VAL:HG12	1.62	0.81
1:B:133:GLU:HG3	1:B:134:GLU:H	1.44	0.81
2:M:71:TYR:HA	2:M:96:ALA:CB	2.10	0.81
2:H:188:LYS:NZ	2:H:188:LYS:CB	2.43	0.81
2:M:1004:LYS:O	3:N:629:SER:HA	1.80	0.81
2:H:182:VAL:C	2:H:193:LEU:HD11	1.99	0.81
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.43	0.81
1:B:187:GLY:HA2	3:D:685:ASP:HA	1.62	0.81
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.59	0.81
2:M:1081:VAL:CG1	2:M:1085:PHE:HB3	2.09	0.81
2:H:148:PHE:CE1	2:H:309:TYR:HD1	1.98	0.81
3:N:520:LEU:HD23	3:N:525:ARG:HD2	1.62	0.81
1:L:76:VAL:HB	3:N:872:ARG:NH1	1.94	0.81
3:I:166:GLN:HE22	3:I:394:LEU:HD12	1.46	0.81
3:I:1106:VAL:HG12	3:I:1107:VAL:H	1.43	0.81
3:I:977:ALA:HB1	3:I:983:LEU:HD21	1.62	0.81
2:C:282:GLY:O	2:C:283:ILE:HD13	1.80	0.81
1:K:153:ALA:HA	1:K:156:HIS:NE2	1.93	0.81
3:D:513:ILE:O	3:D:513:ILE:HD12	1.80	0.81
2:M:516:ARG:NE	3:N:1068:LEU:HD22	1.95	0.81
3:I:205:TYR:HB2	3:I:393:ILE:HG13	1.62	0.81
2:M:12:VAL:HG11	2:M:472:ARG:HD3	1.61	0.81
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.16	0.81
4:E:54:LEU:HD23	4:E:58:PRO:HD2	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:59:GLU:HG3	1:L:60:ASP:H	1.45	0.81
2:C:98:LEU:HD11	2:C:113:VAL:HG22	1.63	0.81
3:I:1264:GLU:OE2	3:I:1424:VAL:HG13	1.81	0.81
3:D:982:PHE:HE1	7:X:100:LEU:HD21	1.43	0.81
1:K:156:HIS:CD2	1:K:157:GLY:H	1.99	0.81
3:N:1288:GLU:O	3:N:1307:LYS:HE2	1.79	0.81
3:N:1283:ILE:HD12	3:N:1315:ASP:OD2	1.80	0.81
1:G:190:THR:CB	3:I:722:GLU:OE1	2.29	0.81
3:N:1297:GLU:HG2	3:N:1298:GLY:N	1.94	0.81
2:M:70:GLU:HB2	2:M:97:ARG:NH2	1.94	0.81
2:C:1074:GLU:HG2	2:C:1075:ASP:N	1.96	0.81
2:H:3:ILE:HA	2:H:900:ARG:O	1.81	0.81
1:F:156:HIS:CD2	1:F:157:GLY:H	1.98	0.81
2:M:193:LEU:O	2:M:197:LEU:HG	1.80	0.81
4:J:54:LEU:CG	4:J:58:PRO:HG2	2.11	0.81
2:C:576:ALA:HB3	2:C:900:ARG:HH11	1.43	0.81
2:C:473:ARG:HH11	2:C:473:ARG:HG2	1.45	0.81
2:C:24:GLU:OE2	2:C:27:ARG:HD3	1.81	0.81
3:I:99:ALA:O	3:I:514:LEU:N	2.14	0.81
1:K:206:THR:HG22	1:K:209:GLU:H	1.46	0.81
3:N:1264:GLU:OE2	3:N:1424:VAL:HG13	1.80	0.81
3:D:18:ILE:CG2	3:D:518:PRO:HG3	2.11	0.81
1:G:42:ARG:HH11	1:G:42:ARG:HG2	1.43	0.81
3:D:160:GLU:HG2	3:D:165:LYS:HB3	1.61	0.81
2:H:1004:LYS:CD	3:I:744:GLN:NE2	2.37	0.81
3:N:86:ARG:NE	3:N:523:ASP:OD2	2.12	0.81
3:I:408:GLU:HG3	3:I:409:VAL:N	1.92	0.81
2:H:109:LYS:HD3	2:H:368:THR:CG2	2.10	0.81
3:I:176:ASP:HA	3:I:390:PRO:HD2	1.61	0.81
2:C:408:ARG:HH21	2:C:455:LEU:HD11	1.45	0.81
2:M:1032:PHE:O	2:M:1036:GLU:HB2	1.80	0.81
3:N:1443:THR:O	3:N:1447:LEU:HD13	1.80	0.81
3:D:482:LYS:HE2	3:D:1388:ARG:NH2	1.96	0.81
3:D:170:PRO:HB2	2:H:318:PRO:O	1.80	0.81
3:N:996:TRP:O	3:N:1000:THR:HG22	1.81	0.81
2:C:588:VAL:HG21	2:C:664:GLY:O	1.81	0.81
2:M:1012:PRO:HD2	2:M:1026:GLN:HG2	1.63	0.81
1:A:39:PRO:O	1:A:43:ILE:HG13	1.81	0.81
2:H:364:GLU:O	2:H:367:LEU:HG	1.81	0.81
3:I:1137:ARG:O	3:I:1141:GLU:HG3	1.81	0.81
1:B:24:VAL:HG22	1:B:196:THR:HG22	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1000:THR:O	3:N:1003:VAL:HG12	1.81	0.80
3:D:28:LYS:CG	3:D:29:PRO:HD2	2.10	0.80
7:Z:83:ILE:HD11	7:Z:151:VAL:HG11	1.61	0.80
2:C:325:ILE:HD12	2:C:325:ILE:N	1.95	0.80
1:A:206:THR:HG22	1:A:209:GLU:H	1.46	0.80
3:N:513:ILE:HD12	3:N:513:ILE:O	1.80	0.80
7:X:139:SER:HB3	7:X:148:GLU:HG3	1.62	0.80
3:I:680:GLN:O	3:I:683:ILE:HD12	1.80	0.80
2:H:689:VAL:HB	2:H:870:ILE:HG12	1.63	0.80
3:D:15:PRO:CB	3:D:515:GLU:OE1	2.29	0.80
2:H:404:LEU:HA	2:H:407:LYS:HD3	1.63	0.80
2:H:309:TYR:CD1	2:H:313:LEU:HD11	2.16	0.80
2:M:1095:LEU:HD12	2:M:1097:LEU:H	1.45	0.80
2:H:668:LEU:N	2:H:668:LEU:HD12	1.96	0.80
1:G:112:ARG:HD3	1:G:125:PRO:CB	2.12	0.80
3:D:1264:GLU:OE2	3:D:1424:VAL:HG13	1.80	0.80
1:G:80:LEU:HD21	3:I:867:ARG:HB2	1.62	0.80
1:K:39:PRO:O	1:K:43:ILE:HG13	1.81	0.80
2:H:135:VAL:HG11	2:H:407:LYS:HA	1.61	0.80
2:H:726:ILE:HG13	2:H:734:LEU:HD11	1.62	0.80
1:L:44:LEU:HA	1:L:48:ILE:HD13	1.63	0.80
2:M:70:GLU:CB	2:M:97:ARG:HH21	1.92	0.80
1:K:25:LEU:HD22	1:L:225:PHE:CD2	2.17	0.80
2:H:2:GLU:O	2:H:899:GLN:HB2	1.80	0.80
2:M:274:ARG:HD2	2:M:285:LEU:CD2	2.11	0.80
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.47	0.80
1:A:156:HIS:CD2	1:A:157:GLY:H	1.98	0.80
2:C:1082:PRO:HG2	3:D:1469:GLY:HA3	1.61	0.80
3:N:434:ARG:O	3:N:447:VAL:HG22	1.79	0.80
2:M:545:ASN:HB3	2:M:583:LEU:HD22	1.64	0.80
2:M:676:ILE:HG22	2:M:988:VAL:O	1.80	0.80
2:C:571:LEU:HD11	2:C:701:THR:N	1.96	0.80
3:I:1256:LEU:HG	3:I:1260:ILE:HD11	1.63	0.80
2:H:657:ASP:OD1	2:H:662:GLU:HA	1.82	0.80
2:M:292:ARG:HG2	2:M:299:LYS:HB2	1.64	0.80
2:C:758:ARG:HB3	2:C:788:THR:O	1.82	0.80
2:M:1031:ARG:HH21	3:N:621:LYS:HZ2	1.27	0.80
3:N:989:TYR:CE2	3:N:993:LEU:HD11	2.16	0.80
3:I:989:TYR:CE2	3:I:993:LEU:HD11	2.16	0.80
2:M:399:ASN:OD1	2:M:402:SER:HB2	1.81	0.80
2:C:657:ASP:OD1	2:C:662:GLU:HA	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:668:LEU:HD12	2:C:668:LEU:N	1.96	0.80
2:M:243:ARG:CB	2:M:244:PRO:HD2	1.98	0.80
2:H:188:LYS:HG3	2:H:188:LYS:O	1.79	0.80
2:M:657:ASP:OD1	2:M:662:GLU:HA	1.82	0.80
3:D:209:ARG:HB3	3:D:389:GLU:HB3	1.63	0.80
3:I:1468:LEU:HD13	3:I:1470:ARG:HE	1.46	0.80
3:I:89:ARG:O	3:I:521:PRO:CG	2.30	0.80
3:D:9:ARG:HD2	3:D:1456:LYS:HE2	1.64	0.80
3:I:204:LEU:HD11	3:I:441:ARG:HH22	1.46	0.80
3:I:400:VAL:HG13	3:I:443:VAL:HG21	1.64	0.80
3:N:1112:CYS:HB2	3:N:1195:GLN:HG2	1.64	0.80
3:I:877:PRO:O	3:I:880:ILE:HG22	1.81	0.80
2:H:758:ARG:HB3	2:H:788:THR:O	1.82	0.80
3:I:134:VAL:HG21	3:I:460:ALA:CB	2.12	0.80
2:M:334:ARG:NH2	2:M:339:LEU:HD23	1.97	0.80
2:M:668:LEU:HD12	2:M:668:LEU:N	1.96	0.80
2:C:73:LEU:HB2	2:C:93:PRO:O	1.81	0.80
2:M:115:LEU:H	2:M:115:LEU:CD2	1.94	0.80
3:I:1472:ILE:H	3:I:1472:ILE:HD12	1.47	0.80
3:D:877:PRO:O	3:D:880:ILE:HG22	1.81	0.80
3:D:1133:ARG:HH12	7:X:23:ARG:NH1	1.80	0.80
3:N:877:PRO:O	3:N:880:ILE:HG22	1.81	0.80
1:L:24:VAL:HG22	1:L:196:THR:HG22	1.61	0.80
3:I:996:TRP:O	3:I:1000:THR:HG22	1.81	0.80
3:D:172:PRO:HG2	3:D:175:VAL:CG2	2.07	0.80
2:H:193:LEU:H	2:H:193:LEU:HD12	1.25	0.80
2:M:84:ARG:NE	2:M:133:ASP:CG	2.31	0.80
3:D:158:TYR:HD1	3:D:162:ARG:HG2	1.46	0.80
3:D:814:ALA:HB1	3:D:818:ARG:HH21	1.45	0.80
3:I:814:ALA:HB1	3:I:818:ARG:HH21	1.45	0.80
3:I:996:TRP:CD2	3:I:1056:PRO:HG2	2.17	0.80
1:F:206:THR:HG22	1:F:209:GLU:H	1.46	0.79
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.62	0.79
2:H:1037:VAL:HG13	2:H:1049:LEU:HD11	1.65	0.79
2:C:471:TYR:O	2:C:483:VAL:HG13	1.83	0.79
2:M:564:MET:HE2	2:M:846:LYS:HD2	1.62	0.79
3:N:676:MET:O	3:N:680:GLN:HB3	1.81	0.79
1:B:41:ARG:HH11	1:B:177:VAL:HG23	1.45	0.79
2:M:316:GLY:C	2:M:318:PRO:HD3	2.02	0.79
3:D:970:LYS:NZ	7:X:113:LEU:HD23	1.96	0.79
3:N:554:LEU:O	3:N:558:LEU:HG	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:404:LEU:HA	2:M:407:LYS:HD3	1.63	0.79
3:N:1494:ALA:HA	3:N:1497:GLU:HG3	1.65	0.79
3:D:1494:ALA:HA	3:D:1497:GLU:HG3	1.64	0.79
3:D:358:GLY:HA2	3:D:385:VAL:O	1.82	0.79
2:H:203:ASP:HB2	2:H:205:GLU:OE2	1.82	0.79
3:N:365:ASP:O	3:N:379:ALA:HB2	1.81	0.79
3:I:1000:THR:O	3:I:1003:VAL:HG12	1.81	0.79
1:G:24:VAL:HG22	1:G:196:THR:HG22	1.62	0.79
2:M:374:ASN:HD22	2:M:374:ASN:H	1.30	0.79
3:D:139:GLY:O	3:D:147:VAL:HB	1.80	0.79
7:X:24:GLU:CA	7:X:27:GLN:HE21	1.96	0.79
2:M:31:GLN:CG	2:M:34:VAL:HG22	2.13	0.79
2:C:545:ASN:HB3	2:C:583:LEU:HD22	1.64	0.79
3:N:1301:LYS:HG3	3:N:1303:TYR:CE1	2.18	0.79
2:H:545:ASN:HB3	2:H:583:LEU:HD22	1.64	0.79
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.64	0.79
2:H:1095:LEU:HB2	3:I:101:HIS:CE1	2.18	0.79
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.64	0.79
2:H:98:LEU:HD12	2:H:98:LEU:H	1.46	0.79
1:F:39:PRO:O	1:F:43:ILE:HG13	1.81	0.79
3:N:166:GLN:NE2	3:N:394:LEU:HD12	1.97	0.79
2:H:317:VAL:N	2:H:318:PRO:HD3	1.96	0.79
2:C:437:ARG:NH2	2:C:488:ALA:HA	1.98	0.79
3:N:387:LEU:N	3:N:387:LEU:HD12	1.97	0.79
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.46	0.79
4:J:18:ARG:HB2	4:J:18:ARG:HH21	1.48	0.79
3:D:977:ALA:HB1	3:D:983:LEU:HD21	1.62	0.79
3:I:1288:GLU:HG2	3:I:1307:LYS:HE2	1.64	0.79
3:I:1235:GLN:HE21	7:Y:37:MET:HG3	1.46	0.79
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.64	0.79
3:D:207:PHE:CE1	2:H:283:ILE:HB	2.18	0.79
2:M:66:LEU:HD22	2:M:372:LEU:HD22	1.65	0.79
2:C:1095:LEU:HD12	2:C:1097:LEU:H	1.45	0.79
3:D:520:LEU:HD23	3:D:525:ARG:HD2	1.62	0.79
3:D:1330:ILE:HD13	3:D:1347:TYR:OH	1.83	0.79
3:I:1209:LEU:HD21	4:J:16:LYS:HE3	1.64	0.79
1:F:211:LEU:O	1:F:215:VAL:HG23	1.82	0.79
3:N:1330:ILE:HD13	3:N:1347:TYR:OH	1.83	0.79
2:C:1095:LEU:CD1	2:C:1097:LEU:HB2	2.13	0.79
1:K:211:LEU:O	1:K:215:VAL:HG23	1.82	0.79
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:213:VAL:HG13	3:N:384:VAL:O	1.82	0.79
1:A:211:LEU:O	1:A:215:VAL:HG23	1.82	0.79
1:L:57:TYR:CE2	1:L:161:ARG:HG2	2.18	0.79
3:D:33:ASN:HD21	3:D:35:ARG:NH2	1.80	0.79
3:I:1301:LYS:HG3	3:I:1303:TYR:CE1	2.18	0.79
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.47	0.79
2:M:70:GLU:O	2:M:96:ALA:HB1	1.81	0.79
2:M:996:LYS:NZ	2:M:1000:MET:SD	2.55	0.79
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.48	0.79
3:D:996:TRP:O	3:D:1000:THR:HG22	1.81	0.79
2:H:1032:PHE:O	2:H:1036:GLU:HB2	1.82	0.79
2:C:537:LYS:HG3	2:C:545:ASN:OD1	1.83	0.79
3:I:9:ARG:HD3	3:I:1456:LYS:HE2	1.64	0.79
3:N:1496:GLU:HA	3:N:1499:ARG:NE	1.97	0.79
3:D:204:LEU:O	3:D:393:ILE:HG23	1.81	0.79
3:D:1000:THR:O	3:D:1003:VAL:HG12	1.81	0.79
2:C:395:LYS:HG2	2:C:397:GLU:HG3	1.65	0.79
2:C:30:LEU:HD12	2:C:30:LEU:O	1.83	0.79
2:C:603:VAL:HA	2:C:613:VAL:HG12	1.64	0.79
3:N:137:PRO:CD	3:N:453:ASP:HB2	2.13	0.78
3:N:128:TYR:HE2	3:N:458:ALA:HA	1.47	0.78
3:D:413:ASP:O	3:D:435:VAL:HG23	1.82	0.78
3:N:857:ILE:HG22	3:N:858:VAL:HG13	1.65	0.78
2:H:632:ASN:HB3	2:H:633:GLN:HE21	1.48	0.78
3:I:177:ALA:H	3:I:390:PRO:HD3	1.46	0.78
3:N:1035:ILE:HA	3:N:1038:LEU:HD12	1.65	0.78
2:C:1012:PRO:HD2	2:C:1026:GLN:HG2	1.65	0.78
2:H:1029:GLY:O	3:I:622:ARG:CD	2.31	0.78
2:C:861:LEU:HD23	2:C:863:ASP:H	1.49	0.78
3:N:792:ILE:HD11	3:N:881:LEU:HD23	1.65	0.78
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.65	0.78
3:I:1485:GLN:HE21	4:J:79:LEU:H	1.31	0.78
3:N:11:ALA:HB1	3:N:507:ASN:ND2	1.98	0.78
3:N:1156:LEU:CD1	3:N:1176:LYS:HE3	2.12	0.78
3:I:50:PHE:HA	3:I:89:ARG:HB3	1.64	0.78
3:I:142:LEU:HB3	3:I:145:VAL:C	2.02	0.78
2:H:267:TYR:CB	2:H:272:ALA:HB1	2.12	0.78
2:H:437:ARG:NH2	2:H:488:ALA:HA	1.98	0.78
2:H:305:PRO:HA	2:H:308:ARG:HB3	1.65	0.78
3:I:481:MET:CE	3:I:493:ARG:HA	2.13	0.78
3:D:481:MET:CE	3:D:493:ARG:HA	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:792:ILE:HD11	3:I:881:LEU:HD23	1.65	0.78
2:H:537:LYS:HG3	2:H:545:ASN:OD1	1.83	0.78
2:C:185:LYS:CG	2:C:190:LYS:CB	2.62	0.78
3:D:1209:LEU:HD22	3:D:1211:MET:HB3	1.65	0.78
3:N:211:VAL:HG12	3:N:213:VAL:CG2	2.12	0.78
3:D:704:ARG:NH2	6:Q:16:G:O2'	2.16	0.78
2:M:260:LEU:O	2:M:260:LEU:HD23	1.84	0.78
3:D:857:ILE:HG22	3:D:858:VAL:HG13	1.65	0.78
2:H:218:VAL:O	2:H:221:LEU:HG	1.83	0.78
2:C:211:LEU:HD23	2:C:221:LEU:HD21	1.65	0.78
1:G:79:ILE:HA	1:G:82:LEU:HD12	1.65	0.78
2:H:344:PHE:HE2	2:H:378:LEU:HD21	1.49	0.78
3:N:1209:LEU:HD21	4:O:16:LYS:CE	2.12	0.78
2:M:1074:GLU:HG2	2:M:1075:ASP:N	1.96	0.78
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.46	0.78
2:C:374:ASN:N	2:C:374:ASN:HD22	1.79	0.78
2:H:508:ILE:HD12	2:H:526:PRO:HB3	1.65	0.78
3:D:171:LEU:HD23	3:D:172:PRO:HD2	1.63	0.78
2:M:364:GLU:O	2:M:367:LEU:HG	1.82	0.78
3:I:1209:LEU:HD23	3:I:1211:MET:H	1.48	0.78
3:N:481:MET:CE	3:N:493:ARG:HA	2.13	0.78
2:C:266:ARG:O	2:C:266:ARG:HD3	1.84	0.78
3:D:365:ASP:O	3:D:379:ALA:CB	2.32	0.78
3:I:1330:ILE:HD13	3:I:1347:TYR:OH	1.83	0.78
7:X:6:LYS:HD3	7:X:75:LEU:HD21	1.63	0.78
2:M:129:ILE:HD12	2:M:129:ILE:N	1.98	0.78
2:H:334:ARG:HA	2:H:338:GLU:OE2	1.83	0.78
3:I:160:GLU:HA	3:I:165:LYS:HB2	1.66	0.78
3:N:838:ARG:HB3	3:N:865:THR:HG23	1.66	0.78
3:I:857:ILE:HG22	3:I:858:VAL:HG13	1.65	0.78
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.65	0.78
3:D:160:GLU:CA	3:D:165:LYS:HB2	2.14	0.78
3:N:82:LYS:O	3:N:85:VAL:HG22	1.84	0.78
2:M:1095:LEU:CD1	2:M:1097:LEU:HB2	2.13	0.78
2:M:861:LEU:HD23	2:M:863:ASP:H	1.49	0.78
1:F:128:HIS:CE1	1:F:131:THR:HG23	2.19	0.78
2:C:144:PRO:HB3	2:C:164:PRO:HA	1.66	0.78
3:D:95:LEU:HA	3:D:551:ASN:OD1	1.84	0.78
3:N:956:ILE:CD1	3:N:1062:ARG:HG3	2.14	0.78
2:M:537:LYS:HG3	2:M:545:ASN:OD1	1.83	0.78
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:50:PHE:CD1	3:N:522:PRO:CG	2.63	0.78
2:H:1090:LYS:HE3	3:I:90:MET:HG3	1.63	0.78
3:D:99:ALA:HB1	3:D:575:GLN:OE1	1.82	0.78
2:M:127:PHE:CE1	2:M:136:ILE:HD13	2.18	0.78
2:H:288:ARG:HB2	2:H:288:ARG:NH1	1.98	0.78
7:Z:57:ARG:HH21	7:Z:57:ARG:CB	1.97	0.78
2:H:474:VAL:CG2	2:H:479:VAL:HG12	2.14	0.78
3:I:39:PRO:HB3	3:I:45:PHE:HB2	1.66	0.78
2:H:182:VAL:HG12	2:H:193:LEU:HD21	1.56	0.78
2:H:679:PHE:HB2	2:H:683:ASN:HD21	1.48	0.78
2:H:1052:MET:SD	3:I:623:VAL:HG21	2.24	0.78
2:C:325:ILE:H	2:C:325:ILE:CD1	1.93	0.78
3:N:1084:THR:HA	3:N:1087:ARG:HD2	1.64	0.78
2:C:1105:LYS:HD2	2:C:1107:ASN:HD22	1.49	0.78
3:N:347:VAL:HG13	3:N:351:MET:CB	2.14	0.78
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.13	0.78
3:N:510:GLU:O	3:N:513:ILE:HG13	1.84	0.78
2:C:632:ASN:HB3	2:C:633:GLN:HE21	1.48	0.78
2:C:679:PHE:HB2	2:C:683:ASN:HD21	1.49	0.77
1:G:74:ASP:HB3	3:I:872:ARG:HH22	1.48	0.77
3:I:510:GLU:O	3:I:513:ILE:HG13	1.84	0.77
2:H:304:LEU:CG	2:H:305:PRO:HD3	2.14	0.77
3:N:1361:VAL:HG23	7:Z:37:MET:SD	2.24	0.77
2:C:1097:LEU:HD11	3:D:1451:ALA:CA	2.14	0.77
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.64	0.77
7:Z:14:ARG:HB3	7:Z:14:ARG:NH1	1.99	0.77
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.19	0.77
2:C:148:PHE:HE1	2:C:309:TYR:HD2	1.31	0.77
2:H:118:ILE:HG22	2:H:382:ILE:HD13	1.65	0.77
2:H:95:TYR:HB3	2:H:114:PHE:HA	1.65	0.77
2:H:1103:ASP:CG	3:I:2:LYS:HA	2.04	0.77
2:M:157:ARG:CZ	2:M:314:THR:HG21	2.14	0.77
2:H:1095:LEU:CD1	2:H:1097:LEU:HB2	2.13	0.77
2:H:290:LEU:CB	2:H:302:VAL:HG11	2.14	0.77
2:H:564:MET:HE1	2:H:846:LYS:CE	2.13	0.77
1:K:79:ILE:HG13	1:K:80:LEU:N	1.97	0.77
2:H:794:PRO:CG	2:H:1025:ALA:HA	2.14	0.77
3:D:838:ARG:HB3	3:D:865:THR:HG23	1.66	0.77
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.64	0.77
1:B:44:LEU:HA	1:B:48:ILE:CD1	2.14	0.77
3:I:25:GLU:HG3	3:I:92:HIS:O	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.66	0.77
2:H:391:LEU:O	2:H:391:LEU:HD23	1.83	0.77
3:D:367:ILE:HB	3:D:377:VAL:HG12	1.65	0.77
3:I:584:ASN:HB2	3:I:602:SER:OG	1.84	0.77
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.47	0.77
2:M:141:HIS:NE2	2:M:332:ARG:HB3	1.99	0.77
2:M:334:ARG:HH11	2:M:418:LEU:HD21	1.48	0.77
3:N:501:ALA:CB	3:N:1452:ILE:HG22	2.13	0.77
2:H:1012:PRO:HD2	2:H:1026:GLN:HG2	1.65	0.77
4:E:36:LYS:HA	4:E:36:LYS:HZ3	1.46	0.77
4:E:36:LYS:NZ	4:E:36:LYS:HA	1.99	0.77
3:I:991:GLN:HE22	7:Y:112:VAL:HB	1.48	0.77
2:H:52:PHE:CD2	2:H:68:PHE:HB2	2.19	0.77
3:I:555:LYS:HA	3:I:558:LEU:HD12	1.67	0.77
2:M:794:PRO:HG2	2:M:1025:ALA:HA	1.66	0.77
3:D:804:LEU:HD23	3:D:804:LEU:N	1.99	0.77
3:I:838:ARG:HB3	3:I:865:THR:HG23	1.66	0.77
1:G:94:LEU:HD11	1:G:119:ASP:HB2	1.67	0.77
2:C:1009:SER:HB3	3:D:651:GLU:O	1.85	0.77
2:H:754:ILE:HG13	2:H:791:ARG:NH1	2.00	0.77
3:I:1061:PHE:HE1	3:I:1065:LEU:HD22	1.50	0.77
3:D:398:ALA:HB2	3:D:447:VAL:HA	1.67	0.77
3:I:1326:THR:HG22	3:I:1327:ARG:H	1.47	0.77
1:K:128:HIS:CE1	1:K:131:THR:HG23	2.19	0.77
3:I:398:ALA:CB	3:I:447:VAL:HA	2.13	0.77
3:N:1442:ASN:ND2	3:N:1445:HIS:H	1.82	0.77
3:N:676:MET:CE	3:N:684:LYS:HE3	2.15	0.77
3:I:650:LEU:HD13	3:I:688:TRP:HZ3	1.47	0.77
3:I:204:LEU:O	3:I:393:ILE:CA	2.33	0.77
2:H:1004:LYS:O	3:I:629:SER:HA	1.85	0.77
2:M:834:GLN:HE22	3:N:724:GLN:CG	1.93	0.77
3:I:1254:GLN:CG	3:I:1255:GLY:H	1.92	0.77
2:H:202:TYR:CE2	2:H:304:LEU:HD22	2.20	0.77
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.65	0.77
3:D:984:THR:HG22	3:D:987:GLU:CD	2.05	0.77
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.65	0.77
3:N:1061:PHE:HE1	3:N:1065:LEU:HD22	1.50	0.77
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.48	0.77
3:D:25:GLU:HG3	3:D:92:HIS:O	1.85	0.77
2:H:5:ARG:HB2	2:H:902:ILE:HB	1.67	0.77
2:H:218:VAL:HG22	2:H:221:LEU:HD21	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:267:TYR:CB	2:C:272:ALA:HB1	2.15	0.77
2:H:1019:GLN:OE1	3:I:621:LYS:HG3	1.81	0.77
2:M:109:LYS:HD3	2:M:368:THR:HG22	1.65	0.77
2:M:30:LEU:CD1	2:M:30:LEU:O	2.30	0.77
1:G:83:LYS:HD3	3:I:844:ALA:HB2	1.65	0.77
2:H:1074:GLU:HG2	2:H:1075:ASP:N	1.96	0.77
4:J:25:LYS:HA	4:J:28:GLN:HG3	1.67	0.77
3:I:482:LYS:HE2	3:I:1388:ARG:HH22	1.46	0.77
1:G:165:ILE:HD13	1:G:165:ILE:N	1.99	0.77
2:C:473:ARG:HA	2:C:531:PHE:CD1	2.19	0.77
3:N:956:ILE:HD11	3:N:1062:ARG:HB3	1.66	0.77
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.85	0.77
3:D:365:ASP:O	3:D:379:ALA:HB2	1.85	0.77
3:D:207:PHE:CZ	2:H:284:ARG:HB2	2.20	0.77
3:D:112:ILE:C	3:D:112:ILE:HD13	2.05	0.77
2:C:874:LEU:O	3:D:1029:ARG:HD2	1.85	0.77
4:O:28:GLN:O	4:O:31:LEU:HD12	1.85	0.77
1:B:86:VAL:HG12	1:B:124:ASN:HB2	1.65	0.77
3:N:1152:GLU:HG2	3:N:1161:GLU:HA	1.67	0.77
2:M:157:ARG:CZ	2:M:314:THR:CG2	2.63	0.77
3:I:138:LYS:H	3:I:138:LYS:HD3	1.50	0.77
3:I:1288:GLU:HG2	3:I:1307:LYS:CE	2.15	0.77
3:D:510:GLU:O	3:D:513:ILE:HG13	1.84	0.77
2:M:18:LEU:H	2:M:18:LEU:HD12	1.48	0.77
1:L:190:THR:CB	3:N:722:GLU:OE1	2.33	0.77
3:D:208:PRO:O	3:D:347:VAL:HB	1.85	0.76
2:C:196:LEU:CD2	2:C:200:LEU:HD11	2.09	0.76
3:N:970:LYS:CD	7:Z:113:LEU:CD2	2.60	0.76
3:I:112:ILE:C	3:I:112:ILE:HD13	2.05	0.76
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.67	0.76
2:C:1085:PHE:CE2	3:D:1468:LEU:HG	2.19	0.76
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.65	0.76
2:H:136:ILE:CG2	2:H:336:VAL:HG13	2.15	0.76
1:A:42:ARG:NH1	1:B:34:VAL:HB	1.98	0.76
2:M:436:GLY:HA2	2:M:538:GLN:O	1.85	0.76
1:F:74:ASP:O	1:F:78:ILE:HG12	1.85	0.76
2:H:754:ILE:HD12	2:H:754:ILE:N	2.00	0.76
3:D:1061:PHE:HE1	3:D:1065:LEU:HD22	1.50	0.76
3:I:1035:ILE:HA	3:I:1038:LEU:HD12	1.65	0.76
2:H:274:ARG:HH11	2:H:274:ARG:HG2	1.48	0.76
2:M:679:PHE:HB2	2:M:683:ASN:HD21	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1042:ARG:O	3:I:1057:VAL:HB	1.85	0.76
3:N:1101:VAL:HG23	3:N:1102:THR:HG23	1.67	0.76
2:M:189:ARG:NE	2:M:189:ARG:HA	2.00	0.76
3:I:984:THR:HG22	3:I:987:GLU:CD	2.05	0.76
2:H:474:VAL:HG23	2:H:478:VAL:O	1.84	0.76
2:M:261:ILE:H	2:M:261:ILE:HD12	1.48	0.76
3:I:470:LEU:HB2	3:I:503:LEU:HD21	1.67	0.76
4:O:41:GLU:O	4:O:45:ARG:HD2	1.86	0.76
3:N:25:GLU:HG3	3:N:92:HIS:O	1.85	0.76
2:M:54:ILE:HG13	2:M:356:ARG:NH2	1.99	0.76
2:M:1086:ARG:NH1	3:N:88:TYR:CD1	2.53	0.76
2:M:200:LEU:CD1	2:M:300:ASP:OD2	2.32	0.76
3:I:203:ALA:HB1	3:I:393:ILE:HG21	1.67	0.76
7:Y:13:GLU:HG2	7:Y:17:GLN:NE2	2.01	0.76
3:I:1384:PRO:HG3	3:I:1389:LEU:HB3	1.67	0.76
2:M:79:PRO:HG2	2:M:82:GLU:CB	2.14	0.76
2:H:857:ASP:HB2	2:H:978:ARG:HG2	1.68	0.76
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.00	0.76
2:M:39:ARG:HE	2:M:45:GLN:HE21	1.25	0.76
1:G:80:LEU:HG	3:I:844:ALA:CA	2.14	0.76
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.67	0.76
3:I:1481:VAL:HG13	4:J:18:ARG:HD3	1.67	0.76
2:C:274:ARG:HH11	2:C:274:ARG:HG2	1.51	0.76
3:D:603:LEU:O	3:D:606:ILE:HG22	1.85	0.76
2:M:754:ILE:HD12	2:M:754:ILE:N	2.00	0.76
3:I:1395:LEU:HD23	3:I:1396:GLU:N	2.00	0.76
3:D:581:LEU:HD23	3:D:582:LEU:N	2.01	0.76
2:C:754:ILE:N	2:C:754:ILE:HD12	2.00	0.76
3:N:134:VAL:HG22	3:N:455:ARG:O	1.85	0.76
2:C:175:GLU:CG	2:C:183:SER:HB3	2.12	0.76
2:H:144:PRO:HG2	2:H:265:ARG:NH1	2.01	0.76
3:D:728:LEU:HD12	3:D:729:HIS:H	1.51	0.76
3:I:398:ALA:HB2	3:I:447:VAL:CG1	2.16	0.76
3:D:800:LYS:HD3	3:D:830:ALA:HB3	1.67	0.76
2:H:18:LEU:H	2:H:18:LEU:HD12	1.51	0.76
2:M:79:PRO:HG2	2:M:82:GLU:HG3	1.67	0.76
3:N:984:THR:HG22	3:N:987:GLU:CD	2.05	0.76
2:C:12:VAL:HG11	2:C:472:ARG:HD3	1.68	0.76
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.20	0.76
2:M:39:ARG:NE	2:M:45:GLN:CD	2.39	0.76
3:D:614:PHE:CD2	3:D:1438:ALA:HB1	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:87:ARG:HG2	3:I:523:ASP:HB2	1.68	0.76
2:H:1105:LYS:HD2	2:H:1107:ASN:HD22	1.50	0.76
3:I:1161:GLU:HG2	3:I:1164:ARG:HB2	1.67	0.76
2:H:304:LEU:H	2:H:304:LEU:HD23	1.50	0.76
7:Y:7:LEU:HD21	7:Y:72:ALA:CB	2.14	0.76
2:M:1105:LYS:HD2	2:M:1107:ASN:HD22	1.50	0.76
3:N:1288:GLU:HG2	3:N:1307:LYS:HE2	1.68	0.76
1:B:71:VAL:HG13	1:B:132:LEU:HD12	1.68	0.76
2:M:707:ARG:HG3	2:M:826:TYR:CE1	2.21	0.76
2:M:48:PHE:HD1	2:M:348:LEU:HD21	1.47	0.76
3:I:105:VAL:HG21	3:I:128:TYR:HE1	1.50	0.76
3:N:116:LEU:HD22	3:N:118:LEU:CG	2.15	0.76
3:I:728:LEU:HD12	3:I:729:HIS:H	1.51	0.76
2:H:436:GLY:HA2	2:H:538:GLN:O	1.86	0.76
2:M:1056:LYS:HD3	3:N:623:VAL:HG13	1.66	0.76
1:F:87:VAL:HG21	1:F:144:VAL:HG11	1.65	0.76
2:C:101:ILE:HD12	2:C:108:ILE:HD13	1.68	0.76
3:D:192:ALA:HB1	3:D:193:PRO:HD2	1.68	0.76
2:C:165:LEU:HB2	2:C:265:ARG:NH1	2.01	0.76
3:N:178:LEU:HD13	3:N:179:VAL:HG23	1.68	0.76
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.67	0.76
3:D:800:LYS:HG3	3:D:829:VAL:CG1	2.16	0.76
2:M:632:ASN:HB3	2:M:633:GLN:HE21	1.48	0.76
3:N:470:LEU:HB2	3:N:503:LEU:HD21	1.67	0.76
1:A:226:SER:O	1:A:228:PRO:HD3	1.86	0.76
4:J:59:ASN:OD1	4:J:61:VAL:HG22	1.86	0.76
2:H:165:LEU:O	2:H:265:ARG:CD	2.33	0.76
3:N:1362:LYS:CD	7:Z:34:GLN:NE2	2.47	0.76
3:D:1359:GLN:O	7:X:37:MET:HE1	1.85	0.76
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.51	0.76
1:A:66:SER:O	1:A:75:VAL:HG23	1.86	0.76
3:N:357:GLU:HG2	3:N:441:ARG:HG2	1.68	0.76
2:H:794:PRO:HG2	2:H:1025:ALA:HA	1.67	0.76
2:H:294:GLU:HG2	2:H:295:ASP:CG	2.06	0.76
3:N:984:THR:HG23	3:N:987:GLU:H	1.51	0.76
2:C:754:ILE:HG13	2:C:791:ARG:NH1	2.00	0.76
3:N:112:ILE:HD13	3:N:112:ILE:C	2.05	0.76
3:N:1078:ARG:HG2	3:N:1078:ARG:NH1	2.00	0.76
2:C:412:ALA:O	2:C:419:THR:HG23	1.86	0.76
2:M:557:ARG:HH11	2:M:560:MET:HG3	1.51	0.76
2:C:564:MET:CE	2:C:846:LYS:CE	2.63	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:342:ASP:HA	2:H:345:ARG:HD3	1.67	0.76
3:N:100:ALA:HB2	3:N:128:TYR:OH	1.86	0.76
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.66	0.76
2:H:15:LEU:N	2:H:15:LEU:HD12	2.00	0.76
3:D:984:THR:HG23	3:D:987:GLU:H	1.51	0.76
3:D:127:LEU:CD2	3:D:134:VAL:CG1	2.64	0.75
7:X:33:LEU:HD11	7:X:52:LYS:HG3	1.67	0.75
3:N:1264:GLU:OE2	3:N:1424:VAL:CG1	2.34	0.75
3:D:618:LEU:CD2	3:D:1463:LYS:HE2	2.16	0.75
3:D:1123:PHE:HD2	3:D:1184:GLN:HG3	1.52	0.75
7:Z:7:LEU:HA	7:Z:109:GLU:OE2	1.86	0.75
3:D:347:VAL:HG13	3:D:351:MET:CB	2.16	0.75
3:N:1468:LEU:HD13	3:N:1470:ARG:NE	2.01	0.75
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.50	0.75
1:B:62:LEU:HD12	1:B:62:LEU:N	2.01	0.75
3:I:571:LYS:O	3:I:574:LEU:HB3	1.86	0.75
3:I:543:LEU:HD21	3:I:600:LEU:HB2	1.69	0.75
3:I:131:LYS:CB	3:I:568:ARG:NE	2.46	0.75
2:H:1095:LEU:HD11	2:H:1097:LEU:CD2	2.17	0.75
2:C:436:GLY:HA2	2:C:538:GLN:O	1.86	0.75
1:L:106:PRO:HG3	1:L:134:GLU:HA	1.68	0.75
5:R:17:DG:H2''	5:R:18:DC:H5'	1.69	0.75
3:D:347:VAL:HG13	3:D:351:MET:HB3	1.66	0.75
3:D:176:ASP:CB	3:D:389:GLU:HG2	2.16	0.75
2:C:196:LEU:HD22	2:C:303:PHE:CE2	2.21	0.75
2:C:265:ARG:HB3	2:C:267:TYR:CE1	2.22	0.75
2:M:678:PRO:HG2	3:N:947:ILE:HD11	1.67	0.75
3:I:87:ARG:HG2	3:I:523:ASP:CB	2.15	0.75
2:H:69:LEU:HD21	2:H:99:GLN:HG2	1.67	0.75
2:M:63:GLY:HA3	2:M:103:LYS:CE	2.17	0.75
3:N:1042:ARG:O	3:N:1057:VAL:HB	1.85	0.75
3:N:890:VAL:HG11	3:N:922:LEU:HD12	1.69	0.75
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.68	0.75
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.67	0.75
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.16	0.75
2:M:65:VAL:HB	2:M:101:ILE:O	1.87	0.75
2:M:1090:LYS:HE3	3:N:90:MET:SD	2.27	0.75
2:M:304:LEU:HG	2:M:305:PRO:HD3	1.67	0.75
3:I:1078:ARG:HG2	3:I:1078:ARG:NH1	2.00	0.75
1:G:38:ASN:HB3	1:G:39:PRO:HD3	1.68	0.75
3:D:969:ARG:HG3	3:D:970:LYS:N	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:123:MET:C	1:B:125:PRO:HD3	2.06	0.75
3:D:169:TYR:CE2	3:D:197:SER:HA	2.21	0.75
2:C:181:VAL:HG11	2:C:223:ASP:OD2	1.87	0.75
3:D:677:LEU:CD2	3:D:683:ILE:CD1	2.65	0.75
2:M:265:ARG:HH12	2:M:332:ARG:NH1	1.80	0.75
2:H:165:LEU:HD12	2:H:166:PRO:C	2.06	0.75
2:H:265:ARG:HB3	2:H:267:TYR:CD2	2.21	0.75
2:M:1095:LEU:HD11	2:M:1097:LEU:CD2	2.17	0.75
3:I:871:LYS:HZ1	1:L:60:ASP:HA	1.47	0.75
3:I:166:GLN:HE21	3:I:396:VAL:CG1	1.99	0.75
1:A:18:ARG:O	1:A:207:PRO:HD3	1.86	0.75
2:H:242:LEU:O	2:H:243:ARG:CG	2.34	0.75
3:I:1379:VAL:HG12	3:I:1419:PRO:HA	1.69	0.75
7:Y:19:LEU:HD21	7:Y:23:ARG:NH2	2.02	0.75
7:Z:11:GLY:O	7:Z:15:LEU:HG	1.87	0.75
2:M:850:ALA:HA	3:N:632:VAL:HG11	1.68	0.75
1:A:75:VAL:O	1:A:79:ILE:HG23	1.86	0.75
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.86	0.75
3:I:690:ALA:O	3:I:694:VAL:HG23	1.86	0.75
3:N:1384:PRO:CG	3:N:1389:LEU:HB3	2.17	0.75
3:I:143:ASN:HA	3:I:161:LEU:HD11	1.69	0.75
2:H:730:SER:O	2:H:734:LEU:HD13	1.86	0.75
2:H:442:GLU:HG2	2:H:454:SER:CB	2.17	0.75
1:A:102:LYS:HD3	1:A:139:ASN:ND2	2.01	0.75
2:H:965:GLU:HA	2:H:968:LEU:HD12	1.69	0.75
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.07	0.75
1:G:44:LEU:HA	1:G:48:ILE:HD13	1.67	0.75
3:I:123:LEU:HD21	3:I:151:GLN:NE2	2.00	0.75
3:I:1095:THR:O	3:I:1099:VAL:HG23	1.86	0.75
2:M:129:ILE:HD11	2:M:134:ARG:HB2	1.69	0.75
2:C:73:LEU:HD22	2:C:118:ILE:HD11	1.68	0.75
2:H:89:THR:O	2:H:91:GLN:HG3	1.87	0.75
1:B:152:PRO:HG2	3:D:857:ILE:HD11	1.69	0.75
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.17	0.75
1:K:102:LYS:HD3	1:K:139:ASN:ND2	2.01	0.75
3:D:190:GLU:HG2	3:D:196:VAL:HG22	1.69	0.75
1:F:102:LYS:HD3	1:F:139:ASN:ND2	2.01	0.75
1:G:185:ARG:NE	3:I:692:GLU:CG	2.39	0.75
2:M:1086:ARG:HD3	3:N:88:TYR:CE2	2.21	0.75
2:H:1097:LEU:CD1	3:I:1451:ALA:CB	2.64	0.75
1:G:178:ALA:HB3	1:G:198:ARG:HG3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1105:LYS:HD2	2:M:1107:ASN:ND2	2.02	0.75
3:D:481:MET:O	3:D:489:ARG:HB2	1.87	0.75
2:H:363:SER:HB2	2:H:366:SER:HB2	1.68	0.75
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.22	0.75
3:D:890:VAL:HG11	3:D:922:LEU:HD12	1.68	0.75
7:X:3:ARG:O	7:X:4:GLU:HG3	1.86	0.75
2:M:129:ILE:CD1	2:M:134:ARG:CG	2.61	0.74
3:N:571:LYS:O	3:N:574:LEU:HB3	1.86	0.74
3:D:1264:GLU:OE2	3:D:1424:VAL:CG1	2.35	0.74
1:K:220:GLU:O	1:K:223:THR:HG22	1.87	0.74
2:C:965:GLU:HA	2:C:968:LEU:HD12	1.69	0.74
2:M:114:PHE:O	2:M:114:PHE:CD2	2.40	0.74
3:N:950:GLY:O	3:N:953:ASP:HB2	1.87	0.74
3:N:899:LEU:HD12	3:N:900:ILE:HG22	1.69	0.74
1:B:150:TYR:HE1	1:B:170:VAL:HG12	1.51	0.74
2:C:207:LEU:CD2	2:C:221:LEU:HD22	2.17	0.74
3:I:135:LEU:HD13	3:I:148:GLU:O	1.85	0.74
2:C:1095:LEU:HD11	2:C:1097:LEU:CD2	2.17	0.74
3:D:124:GLU:HG3	3:D:128:TYR:HE1	1.51	0.74
3:D:134:VAL:HG23	3:D:455:ARG:O	1.87	0.74
3:I:202:VAL:HG11	3:I:445:ARG:HE	1.52	0.74
3:D:706:PRO:HG3	5:P:15:DC:O2	1.86	0.74
3:I:1109:GLU:HG2	3:I:1201:CYS:HA	1.69	0.74
2:C:1046:ALA:HA	3:D:1472:ILE:HD11	1.69	0.74
2:C:185:LYS:HG2	2:C:190:LYS:CB	2.17	0.74
3:N:432:TYR:HB3	3:N:450:TYR:HB2	1.69	0.74
3:N:1257:PRO:HA	3:N:1260:ILE:CD1	2.13	0.74
3:I:1264:GLU:OE2	3:I:1424:VAL:CG1	2.35	0.74
2:H:861:LEU:HD23	2:H:863:ASP:H	1.49	0.74
3:I:480:GLU:O	3:I:484:PRO:HD2	1.88	0.74
2:C:395:LYS:HG2	2:C:397:GLU:CG	2.17	0.74
1:G:190:THR:HB	3:I:722:GLU:OE1	1.87	0.74
3:I:970:LYS:NZ	7:Y:113:LEU:HD23	2.01	0.74
2:H:26:TYR:CD2	2:H:30:LEU:HD11	2.22	0.74
3:D:1078:ARG:HG2	3:D:1078:ARG:NH1	2.00	0.74
2:H:836:GLY:HA3	2:H:1001:VAL:HG21	1.68	0.74
2:H:151:ASP:CG	2:H:152:PRO:HD2	2.08	0.74
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.69	0.74
2:M:1009:SER:HB3	3:N:651:GLU:O	1.88	0.74
3:I:131:LYS:HB2	3:I:568:ARG:CZ	2.16	0.74
1:B:187:GLY:C	3:D:685:ASP:HA	2.08	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:557:ARG:HH11	2:C:560:MET:HG3	1.51	0.74
2:H:603:VAL:CA	2:H:613:VAL:HG12	2.13	0.74
2:C:1032:PHE:O	2:C:1036:GLU:HB2	1.88	0.74
2:C:1105:LYS:HD2	2:C:1107:ASN:ND2	2.01	0.74
1:F:124:ASN:HD21	1:F:127:LEU:HD22	1.53	0.74
2:C:31:GLN:OE1	2:C:39:ARG:HA	1.87	0.74
3:I:1286:THR:HG22	3:I:1287:GLU:H	1.51	0.74
3:D:1312:LEU:HD11	3:D:1327:ARG:NH2	2.03	0.74
2:H:946:ARG:HB3	2:H:946:ARG:HH11	1.52	0.74
2:C:211:LEU:HD23	2:C:221:LEU:HD23	1.69	0.74
3:D:1442:ASN:HD21	3:D:1444:THR:HB	1.50	0.74
3:N:1459:LEU:HB3	3:N:1465:ASN:OD1	1.87	0.74
3:I:872:ARG:NE	1:L:162:ILE:HG21	2.02	0.74
2:H:412:ALA:O	2:H:419:THR:HG23	1.87	0.74
2:H:557:ARG:HH11	2:H:560:MET:HG3	1.51	0.74
3:D:690:ALA:O	3:D:694:VAL:HG23	1.86	0.74
1:L:165:ILE:N	1:L:165:ILE:HD13	2.03	0.74
1:F:220:GLU:O	1:F:223:THR:HG22	1.87	0.74
1:F:226:SER:O	1:F:228:PRO:HD3	1.86	0.74
3:D:86:ARG:HB3	3:D:86:ARG:CZ	2.15	0.74
2:H:1105:LYS:HZ3	2:H:1107:ASN:HB2	1.52	0.74
7:X:24:GLU:O	7:X:27:GLN:HG2	1.87	0.74
3:N:728:LEU:HD12	3:N:729:HIS:H	1.50	0.74
1:K:86:VAL:CG1	1:K:124:ASN:HB2	2.16	0.74
7:Y:89:VAL:CG1	7:Y:91:LEU:HD21	2.16	0.74
3:I:890:VAL:HG11	3:I:922:LEU:HD12	1.68	0.74
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.69	0.74
2:C:442:GLU:HG2	2:C:454:SER:CB	2.17	0.74
4:J:33:HIS:CD2	4:J:89:MET:HG2	2.23	0.74
7:Z:114:ASP:OD2	7:Z:118:LYS:HE3	1.88	0.74
2:C:140:ILE:HD12	2:C:140:ILE:O	1.88	0.74
2:M:368:THR:HB	2:M:369:PRO:CD	2.17	0.74
1:G:134:GLU:HG3	3:N:821:VAL:CG1	2.18	0.74
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.02	0.74
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.16	0.74
3:I:606:ILE:O	3:I:613:ARG:CG	2.36	0.74
2:C:144:PRO:HA	2:C:163:ILE:O	1.88	0.74
3:I:1288:GLU:O	3:I:1307:LYS:HG2	1.86	0.74
3:I:1205:TYR:CD2	3:I:1215:VAL:HG21	2.23	0.74
4:J:37:ASN:HD22	4:J:37:ASN:N	1.85	0.74
3:N:690:ALA:O	3:N:694:VAL:HG23	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:442:GLU:HG2	2:M:454:SER:CB	2.17	0.74
3:I:520:LEU:HD23	3:I:525:ARG:HD2	1.69	0.74
3:I:521:PRO:O	3:I:524:LEU:HB2	1.87	0.74
2:H:313:LEU:CB	2:H:320:HIS:CE1	2.69	0.74
2:H:1105:LYS:HD2	2:H:1107:ASN:ND2	2.02	0.74
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.68	0.74
3:N:115:LEU:HD12	3:N:502:PHE:HE1	1.51	0.74
3:I:984:THR:HG23	3:I:987:GLU:H	1.51	0.74
3:D:899:LEU:HD12	3:D:900:ILE:HG22	1.69	0.74
2:M:984:GLU:HG2	3:N:944:THR:O	1.88	0.74
3:I:899:LEU:HD12	3:I:900:ILE:HG22	1.70	0.74
3:I:139:GLY:HA3	3:I:162:ARG:CZ	2.17	0.74
2:M:48:PHE:O	2:M:52:PHE:HB2	1.88	0.74
3:I:1254:GLN:CG	3:I:1255:GLY:N	2.50	0.74
2:H:144:PRO:HA	2:H:163:ILE:O	1.88	0.74
3:I:95:LEU:HB2	3:I:515:GLU:O	1.88	0.74
3:N:1078:ARG:HH11	3:N:1078:ARG:HG2	1.53	0.74
2:H:707:ARG:HG3	2:H:826:TYR:CE1	2.23	0.74
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.17	0.74
3:D:159:ARG:NH2	2:H:218:VAL:CG1	2.50	0.74
2:H:676:ILE:HG22	2:H:988:VAL:O	1.86	0.74
3:N:178:LEU:H	3:N:178:LEU:HD12	1.53	0.74
3:I:554:LEU:CD1	3:I:558:LEU:HD21	2.17	0.74
4:O:6:ILE:HA	4:O:9:LEU:HD12	1.69	0.74
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.02	0.74
3:I:187:LYS:HG3	3:I:198:ARG:O	1.88	0.74
7:X:103:GLN:HE21	7:X:105:VAL:HG13	1.50	0.74
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.23	0.74
3:N:44:LEU:O	3:N:50:PHE:HE1	1.70	0.73
2:M:988:VAL:HG12	3:N:948:THR:OG1	1.88	0.73
3:D:52:PRO:O	3:D:86:ARG:HD3	1.88	0.73
2:C:185:LYS:CD	2:C:190:LYS:CG	2.58	0.73
2:M:334:ARG:NH1	2:M:415:PRO:HG2	2.00	0.73
2:H:144:PRO:HG2	2:H:265:ARG:HH11	1.53	0.73
3:N:1209:LEU:HD21	4:O:16:LYS:HE3	1.68	0.73
3:I:405:ASP:H	3:I:423:ASP:CG	1.92	0.73
1:K:124:ASN:HD21	1:K:127:LEU:HD22	1.53	0.73
1:F:86:VAL:CG1	1:F:124:ASN:HB2	2.16	0.73
1:L:56:VAL:HG22	1:L:142:VAL:HG12	1.70	0.73
1:L:58:ILE:N	1:L:58:ILE:HD12	2.03	0.73
3:D:804:LEU:HD23	3:D:804:LEU:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.68	0.73
2:M:86:LYS:O	2:M:87:ASP:HB2	1.86	0.73
3:I:525:ARG:HB2	3:I:538:SER:HB3	1.68	0.73
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.70	0.73
2:H:1019:GLN:NE2	3:I:621:LYS:HG2	1.99	0.73
2:M:109:LYS:NZ	2:M:367:LEU:O	2.21	0.73
1:B:178:ALA:HB3	1:B:198:ARG:HG3	1.69	0.73
2:C:516:ARG:HG3	3:D:1068:LEU:HD11	1.70	0.73
2:C:516:ARG:HG3	3:D:1068:LEU:CD1	2.18	0.73
3:N:1235:GLN:HG2	7:Z:48:LEU:CD1	2.18	0.73
2:H:1067:TYR:CZ	2:H:1071:ILE:HD11	2.23	0.73
2:C:199:VAL:HG21	2:C:238:LEU:CD1	2.17	0.73
3:D:682:ASP:O	3:D:683:ILE:HB	1.88	0.73
3:D:126:VAL:CG1	3:D:132:TYR:CG	2.72	0.73
3:I:87:ARG:HG3	3:I:523:ASP:HB2	1.69	0.73
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.23	0.73
3:I:1312:LEU:HD11	3:I:1327:ARG:NH2	2.02	0.73
3:I:1326:THR:HG22	3:I:1327:ARG:N	2.02	0.73
3:N:356:PRO:HB3	3:N:441:ARG:HA	1.70	0.73
3:I:1114:THR:HG21	3:I:1195:GLN:HB3	1.68	0.73
3:I:997:THR:HG21	7:Y:61:ARG:NH1	2.03	0.73
2:H:9:ILE:HG12	2:H:907:ASP:HB2	1.70	0.73
3:N:480:GLU:O	3:N:484:PRO:HD2	1.87	0.73
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.70	0.73
3:D:142:LEU:HD23	3:D:146:PRO:HA	1.70	0.73
2:C:1092:LEU:HD13	2:C:1099:VAL:CG2	2.10	0.73
2:C:872:ASN:HD21	2:C:874:LEU:HB2	1.54	0.73
3:N:392:SER:C	3:N:393:ILE:HD12	2.08	0.73
3:N:141:ILE:HG21	3:N:448:GLU:OE1	1.89	0.73
2:H:172:ILE:N	2:H:172:ILE:HD12	2.03	0.73
2:M:187:ASN:O	2:M:188:LYS:HB3	1.87	0.73
3:D:1122:LEU:HD13	3:D:1185:GLU:HA	1.69	0.73
2:C:91:GLN:HE22	2:C:383:ARG:HH12	1.36	0.73
3:I:143:ASN:HB3	3:I:161:LEU:CD1	2.19	0.73
2:C:21:ILE:H	2:C:21:ILE:CD1	2.01	0.73
3:I:969:ARG:HG3	3:I:970:LYS:N	2.02	0.73
1:L:190:THR:HB	3:N:722:GLU:OE1	1.88	0.73
1:B:94:LEU:HD11	1:B:119:ASP:HB2	1.68	0.73
3:D:957:PRO:HG2	3:D:1007:VAL:HG22	1.70	0.73
3:I:957:PRO:HG2	3:I:1007:VAL:HG22	1.70	0.73
1:F:186:LEU:HD23	1:F:187:GLY:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:449:ILE:HG21	3:N:1082:ALA:HA	1.70	0.73
2:C:1004:LYS:CD	3:D:744:GLN:HE22	1.92	0.73
2:H:1110:ASP:OD1	2:H:1112:PHE:CE1	2.41	0.73
3:I:407:VAL:HA	3:I:422:ALA:HA	1.71	0.73
3:N:1312:LEU:HD11	3:N:1327:ARG:NH2	2.03	0.73
2:M:957:LYS:HD3	2:M:961:GLU:HB3	1.70	0.73
3:N:957:PRO:HG2	3:N:1007:VAL:HG22	1.70	0.73
3:I:1369:GLU:O	3:I:1372:VAL:HG12	1.89	0.73
1:A:220:GLU:O	1:A:223:THR:HG22	1.87	0.73
2:M:681:GLY:C	3:N:635:PRO:HG3	2.08	0.73
2:H:182:VAL:CB	2:H:193:LEU:CD2	2.65	0.73
2:C:260:LEU:CB	2:C:291:ALA:HB1	2.16	0.73
2:C:302:VAL:O	2:C:305:PRO:HD2	1.87	0.73
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.70	0.73
1:K:18:ARG:O	1:K:207:PRO:HD3	1.88	0.73
2:H:1008:ARG:NH1	2:H:1010:THR:HA	2.04	0.73
1:B:66:SER:OG	1:B:75:VAL:HG21	1.89	0.73
3:D:17:LYS:HG2	3:D:21:TRP:HE1	1.53	0.73
2:H:879:ARG:NH2	7:Y:42:ASP:CB	2.51	0.73
2:M:1094:ALA:HB1	3:N:603:LEU:HD11	1.68	0.73
7:Y:82:VAL:CG2	7:Y:133:ARG:HH21	2.02	0.73
3:D:165:LYS:NZ	3:D:199:LEU:HD22	2.04	0.73
3:N:996:TRP:CG	3:N:1056:PRO:CG	2.72	0.73
2:M:84:ARG:CZ	2:M:133:ASP:OD2	2.37	0.73
2:C:676:ILE:HG23	3:D:948:THR:HB	1.71	0.73
1:L:178:ALA:HB3	1:L:198:ARG:HG3	1.69	0.73
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.54	0.73
2:C:36:PRO:HA	2:C:39:ARG:HG3	1.71	0.73
7:X:134:VAL:CG2	7:X:154:ILE:HG13	2.19	0.73
2:M:1056:LYS:HD3	3:N:623:VAL:CG1	2.18	0.73
3:I:1098:LEU:O	3:I:1102:THR:HG23	1.87	0.73
7:X:114:ASP:OD2	7:X:118:LYS:HE3	1.88	0.73
1:G:86:VAL:HG12	1:G:124:ASN:ND2	2.03	0.73
2:M:1067:TYR:CZ	2:M:1071:ILE:HD11	2.24	0.73
3:D:187:LYS:HE2	3:D:199:LEU:HD12	1.69	0.73
2:H:675:ALA:CA	2:H:989:VAL:HG12	2.18	0.73
2:H:794:PRO:HG2	2:H:1025:ALA:O	1.88	0.73
2:M:31:GLN:CG	2:M:34:VAL:CG2	2.67	0.73
2:M:1031:ARG:HH21	3:N:621:LYS:NZ	1.86	0.73
3:D:1146:GLY:HA2	3:D:1207:TYR:HB2	1.70	0.73
3:D:827:ILE:H	3:D:827:ILE:HD12	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.23	0.73
3:I:477:LEU:HD22	3:I:492:ALA:HB1	1.71	0.73
3:D:908:LYS:HB2	3:D:1027:GLY:HA3	1.69	0.73
1:A:186:LEU:HD23	1:A:187:GLY:N	2.03	0.73
3:N:50:PHE:CD2	3:N:522:PRO:HG3	2.24	0.73
3:D:205:TYR:OH	3:D:208:PRO:HB3	1.88	0.73
3:D:207:PHE:HE1	2:H:283:ILE:HG13	1.54	0.73
3:I:12:LEU:CD2	3:I:104:PHE:CE1	2.61	0.73
3:N:187:LYS:HG3	3:N:199:LEU:HA	1.71	0.73
2:H:144:PRO:HB3	2:H:164:PRO:HA	1.71	0.73
2:H:47:ALA:O	2:H:50:GLU:HB3	1.88	0.73
3:N:704:ARG:HD3	3:N:738:ALA:HB2	1.71	0.73
2:H:195:LEU:HD12	2:H:234:ALA:HB1	1.68	0.73
3:I:908:LYS:CB	3:I:1027:GLY:HA3	2.17	0.73
3:D:982:PHE:N	3:D:982:PHE:HD2	1.87	0.73
1:L:85:LEU:HD12	1:L:86:VAL:N	2.03	0.73
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.23	0.73
2:C:47:ALA:O	2:C:50:GLU:HB3	1.88	0.73
3:N:165:LYS:HD3	3:N:165:LYS:O	1.88	0.73
2:H:1092:LEU:HD13	2:H:1099:VAL:CG2	2.10	0.73
2:H:1056:LYS:HD3	3:I:623:VAL:HG12	1.68	0.73
3:D:1263:PHE:O	3:D:1424:VAL:HG12	1.89	0.73
3:N:1369:GLU:O	3:N:1372:VAL:HG12	1.89	0.73
7:Y:115:THR:CB	7:Y:116:PRO:HD3	2.19	0.73
3:N:477:LEU:HD22	3:N:492:ALA:HB1	1.71	0.73
2:M:412:ALA:O	2:M:419:THR:HG23	1.89	0.73
3:N:17:LYS:HG2	3:N:21:TRP:HE1	1.53	0.72
3:N:190:GLU:HG2	3:N:196:VAL:HG22	1.70	0.72
3:N:456:MET:CE	3:N:568:ARG:NH2	2.52	0.72
1:K:73:GLU:OE1	1:K:130:ALA:HA	1.88	0.72
2:H:74:GLY:O	2:H:76:PRO:HD3	1.89	0.72
3:I:982:PHE:N	3:I:982:PHE:HD2	1.87	0.72
1:F:54:THR:O	1:F:158:ILE:HD13	1.89	0.72
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.53	0.72
2:H:632:ASN:HB3	2:H:633:GLN:NE2	2.03	0.72
2:M:9:ILE:HG13	2:M:9:ILE:O	1.88	0.72
2:C:1100:GLN:N	3:D:9:ARG:O	2.21	0.72
2:M:217:LEU:CB	2:M:311:PHE:CD1	2.71	0.72
3:D:1101:VAL:HG11	3:D:1424:VAL:HG23	1.69	0.72
3:D:1369:GLU:O	3:D:1372:VAL:HG12	1.89	0.72
3:I:203:ALA:HB1	3:I:393:ILE:CG2	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:41:ARG:O	3:I:42:ASP:HB2	1.87	0.72
2:H:957:LYS:HD3	2:H:961:GLU:HB3	1.71	0.72
3:I:143:ASN:HB3	3:I:161:LEU:HD11	1.71	0.72
2:H:1037:VAL:HG13	2:H:1049:LEU:CD1	2.19	0.72
3:D:1078:ARG:HG2	3:D:1078:ARG:HH11	1.53	0.72
3:N:827:ILE:H	3:N:827:ILE:HD12	1.54	0.72
2:H:872:ASN:HD21	2:H:874:LEU:HB2	1.54	0.72
2:C:432:ARG:HH22	3:D:1047:LYS:HD3	1.53	0.72
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.54	0.72
1:G:106:PRO:HG3	1:G:134:GLU:HA	1.70	0.72
1:G:39:PRO:O	1:G:43:ILE:HG12	1.89	0.72
1:A:58:ILE:HD13	1:A:140:MET:CB	2.19	0.72
3:D:800:LYS:NZ	3:D:804:LEU:HD22	2.04	0.72
1:K:54:THR:O	1:K:158:ILE:HD13	1.89	0.72
1:G:137:ARG:NH1	1:G:137:ARG:HB3	2.03	0.72
2:H:498:GLN:NE2	2:H:498:GLN:HA	2.04	0.72
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.72	0.72
2:M:576:ALA:HB3	2:M:900:ARG:HH11	1.53	0.72
2:H:432:ARG:HH22	3:I:1047:LYS:CD	2.01	0.72
1:B:73:GLU:OE1	1:B:130:ALA:HA	1.88	0.72
1:F:18:ARG:HH22	1:F:88:ARG:HH21	1.37	0.72
3:D:1114:THR:HG21	3:D:1195:GLN:HB3	1.70	0.72
2:C:957:LYS:HD3	2:C:961:GLU:HB3	1.71	0.72
3:I:982:PHE:HA	7:Y:125:MET:HB2	1.72	0.72
3:D:1280:VAL:HA	3:D:1318:TYR:HA	1.71	0.72
1:F:24:VAL:HG22	1:F:196:THR:CG2	2.18	0.72
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.69	0.72
3:I:17:LYS:HG2	3:I:21:TRP:HE1	1.53	0.72
3:D:687:VAL:HG13	3:D:688:TRP:CE3	2.25	0.72
2:M:557:ARG:HH21	2:M:879:ARG:HE	1.37	0.72
3:D:432:TYR:HB3	3:D:450:TYR:HB2	1.71	0.72
2:H:1008:ARG:HH12	2:H:1010:THR:HA	1.52	0.72
2:M:859:PRO:O	2:M:867:VAL:HG22	1.89	0.72
1:A:124:ASN:HD21	1:A:127:LEU:HD22	1.53	0.72
2:M:946:ARG:HB3	2:M:946:ARG:HH11	1.52	0.72
2:M:758:ARG:HB3	2:M:788:THR:O	1.89	0.72
1:G:20:TYR:HD2	1:G:21:GLY:H	1.36	0.72
3:D:205:TYR:HD1	3:D:390:PRO:HG3	1.54	0.72
2:C:165:LEU:CB	2:C:265:ARG:NH1	2.52	0.72
2:C:332:ARG:HG3	2:C:465:GLY:HA3	1.71	0.72
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:683:ILE:O	3:D:687:VAL:HG12	1.88	0.72
1:G:185:ARG:NH1	3:I:692:GLU:CB	2.53	0.72
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.23	0.72
3:D:52:PRO:N	3:D:86:ARG:HD3	2.05	0.72
2:M:265:ARG:HD3	2:M:267:TYR:CD1	2.25	0.72
2:H:266:ARG:CA	2:H:288:ARG:HD3	2.14	0.72
2:M:221:LEU:C	2:M:223:ASP:H	1.91	0.72
3:N:982:PHE:HD2	3:N:982:PHE:N	1.86	0.72
3:N:1236:LEU:O	3:N:1237:THR:HG23	1.89	0.72
1:K:161:ARG:CZ	1:K:161:ARG:HB2	2.20	0.72
2:M:260:LEU:CB	2:M:291:ALA:HB1	2.18	0.72
2:C:632:ASN:HB3	2:C:633:GLN:NE2	2.04	0.72
2:M:984:GLU:CG	3:N:944:THR:O	2.38	0.72
2:H:56:GLU:HG2	2:H:356:ARG:HG2	1.72	0.72
1:B:58:ILE:HD12	1:B:58:ILE:N	2.04	0.72
2:H:681:GLY:C	3:I:635:PRO:HG3	2.09	0.72
7:Z:12:TYR:CZ	7:Z:16:MET:HE3	2.24	0.72
3:I:162:ARG:CD	3:I:452:ILE:HG21	2.17	0.72
2:M:69:LEU:HD21	2:M:99:GLN:NE2	2.05	0.72
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.20	0.72
2:C:879:ARG:CZ	7:X:42:ASP:OD1	2.37	0.72
3:N:176:ASP:HA	3:N:389:GLU:HA	1.72	0.72
1:G:112:ARG:NH1	1:G:126:ASP:OD1	2.22	0.72
2:H:170:PRO:HD2	2:H:263:ASP:HB3	1.72	0.72
3:I:1109:GLU:HG3	3:I:1217:ILE:HD12	1.71	0.72
3:D:1137:ARG:NH2	3:D:1172:HIS:CD2	2.58	0.72
7:Z:8:THR:HG23	7:Z:109:GLU:OE1	1.88	0.72
3:I:827:ILE:HD12	3:I:827:ILE:H	1.54	0.72
1:F:13:VAL:HG22	1:F:23:PHE:CD1	2.24	0.72
2:H:196:LEU:CD2	2:H:200:LEU:HD11	2.17	0.72
2:C:988:VAL:HG12	3:D:948:THR:OG1	1.88	0.72
3:N:187:LYS:CB	3:N:200:ASP:HB2	2.17	0.72
2:M:200:LEU:HD22	2:M:300:ASP:OD1	1.89	0.72
2:C:657:ASP:OD1	2:C:662:GLU:CA	2.38	0.72
2:H:564:MET:CE	2:H:846:LYS:HE2	2.19	0.72
1:F:221:HIS:NE2	1:G:32:PHE:HE2	1.78	0.72
2:M:632:ASN:HB3	2:M:633:GLN:NE2	2.03	0.72
3:D:520:LEU:CD1	3:D:521:PRO:HD2	2.20	0.72
3:N:671:LYS:O	3:N:675:ARG:HG3	1.89	0.72
2:M:217:LEU:CD1	2:M:311:PHE:CD1	2.70	0.72
3:N:181:ASP:HA	3:N:205:TYR:CD2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:697:ARG:HD2	2:M:699:PHE:HD1	1.53	0.72
3:I:1047:LYS:HB3	3:I:1048:PRO:CD	2.19	0.72
2:H:657:ASP:OD1	2:H:662:GLU:CA	2.38	0.72
1:L:54:THR:HG22	1:L:156:HIS:CE1	2.24	0.72
2:H:524:VAL:HG12	2:H:525:SER:N	2.05	0.72
3:D:179:VAL:HG22	3:D:183:GLU:OE2	1.89	0.72
2:H:193:LEU:H	2:H:193:LEU:HD13	1.53	0.72
3:D:159:ARG:HH22	2:H:218:VAL:HG11	1.51	0.72
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.72	0.72
3:N:131:LYS:HG3	3:N:568:ARG:CD	2.09	0.72
3:I:704:ARG:HD3	3:I:738:ALA:HB2	1.71	0.72
3:N:365:ASP:H	3:N:379:ALA:HB3	1.54	0.72
2:H:408:ARG:HH21	2:H:455:LEU:HD12	1.54	0.72
3:I:1106:VAL:HG12	3:I:1107:VAL:N	2.04	0.72
1:F:218:LEU:HD23	1:G:222:LEU:CD2	2.20	0.72
2:M:79:PRO:HG2	2:M:82:GLU:CG	2.19	0.72
2:H:474:VAL:HG21	2:H:479:VAL:HG12	1.72	0.72
3:I:495:ARG:O	3:I:499:VAL:HG23	1.90	0.72
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.72	0.72
1:K:62:LEU:N	1:K:62:LEU:HD12	2.04	0.72
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.70	0.72
3:N:970:LYS:HZ1	7:Z:113:LEU:HG	1.54	0.71
2:M:99:GLN:OE1	2:M:110:GLU:HG3	1.90	0.71
2:M:22:GLN:NE2	2:M:336:VAL:HG22	2.05	0.71
3:N:452:ILE:CD1	3:N:452:ILE:O	2.30	0.71
2:H:859:PRO:O	2:H:867:VAL:HG22	1.89	0.71
3:I:160:GLU:HG2	3:I:165:LYS:HB2	1.71	0.71
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.05	0.71
1:A:54:THR:O	1:A:158:ILE:HD13	1.89	0.71
1:F:62:LEU:N	1:F:62:LEU:HD12	2.04	0.71
2:C:946:ARG:HB3	2:C:946:ARG:HH11	1.53	0.71
2:C:524:VAL:HG12	2:C:525:SER:N	2.04	0.71
2:H:1090:LYS:HD2	3:I:90:MET:SD	2.29	0.71
2:H:988:VAL:HG11	3:I:949:ILE:O	1.89	0.71
2:M:1099:VAL:CG2	3:N:10:ILE:HG12	2.19	0.71
3:D:158:TYR:CD1	3:D:162:ARG:CB	2.74	0.71
3:I:204:LEU:CD1	3:I:441:ARG:HH22	2.01	0.71
3:I:1263:PHE:O	3:I:1424:VAL:HG12	1.90	0.71
3:N:1103:HIS:CD2	3:N:1463:LYS:HB2	2.25	0.71
3:I:843:PHE:HE1	3:I:864:VAL:HG11	1.55	0.71
3:N:495:ARG:O	3:N:499:VAL:HG23	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y:14:ARG:NH1	7:Y:14:ARG:HB3	2.04	0.71
1:B:20:TYR:HD2	1:B:21:GLY:H	1.36	0.71
2:M:1090:LYS:HA	2:M:1093:GLN:HG3	1.72	0.71
3:D:645:PRO:HD3	3:D:726:ILE:HG12	1.72	0.71
3:N:432:TYR:HB3	3:N:450:TYR:CD2	2.24	0.71
3:N:1263:PHE:O	3:N:1424:VAL:HG12	1.89	0.71
3:I:1078:ARG:HG2	3:I:1078:ARG:HH11	1.52	0.71
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.71	0.71
1:F:98:THR:CG2	1:F:141:GLU:HG3	2.20	0.71
2:C:148:PHE:HE1	2:C:309:TYR:CD2	2.07	0.71
3:I:1101:VAL:HG21	3:I:1424:VAL:HG23	1.72	0.71
1:A:23:PHE:CD2	1:A:211:LEU:HD22	2.25	0.71
2:C:689:VAL:HB	2:C:870:ILE:HG12	1.72	0.71
2:M:722:ILE:HD13	2:M:722:ILE:O	1.89	0.71
3:D:1041:LEU:HD23	3:D:1041:LEU:O	1.90	0.71
3:D:159:ARG:CZ	2:H:222:MET:HE2	2.21	0.71
1:G:185:ARG:CD	3:I:692:GLU:HG2	2.20	0.71
3:D:783:ARG:HG2	3:D:784:ASP:H	1.55	0.71
2:C:987:ILE:HD12	3:D:948:THR:CG2	2.19	0.71
3:N:817:GLU:O	3:N:821:VAL:HG23	1.90	0.71
7:Z:6:LYS:CD	7:Z:85:LEU:HD12	2.17	0.71
1:F:18:ARG:O	1:F:207:PRO:HD3	1.91	0.71
2:H:42:VAL:HG23	2:H:43:GLY:N	2.04	0.71
2:C:859:PRO:O	2:C:867:VAL:HG22	1.89	0.71
1:G:59:GLU:HG3	1:G:60:ASP:H	1.54	0.71
3:I:1286:THR:O	3:I:1287:GLU:HB2	1.90	0.71
2:H:597:ALA:HB2	2:H:655:LEU:HD21	1.72	0.71
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.71	0.71
3:D:87:ARG:HB2	3:D:524:LEU:HD12	1.72	0.71
3:N:452:ILE:HD13	3:N:452:ILE:C	2.11	0.71
3:N:151:GLN:HG3	3:N:152:LEU:H	1.53	0.71
2:C:1090:LYS:HA	2:C:1093:GLN:HG3	1.72	0.71
2:H:675:ALA:HA	2:H:989:VAL:CG1	2.21	0.71
1:L:42:ARG:HH11	1:L:42:ARG:HG2	1.55	0.71
2:C:501:THR:CG2	2:C:513:VAL:HG13	2.20	0.71
3:D:1384:PRO:HG3	3:D:1389:LEU:HB3	1.72	0.71
3:N:1111:ASP:OD1	3:N:1203:LYS:HD2	1.90	0.71
2:C:492:ASP:OD2	2:C:518:LYS:HG3	1.90	0.71
3:I:1147:ARG:HB3	3:I:1188:VAL:HG21	1.73	0.71
2:H:1090:LYS:HA	2:H:1093:GLN:HG3	1.72	0.71
3:N:1041:LEU:O	3:N:1041:LEU:HD23	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:124:GLU:CG	3:D:128:TYR:HE1	2.02	0.71
1:G:75:VAL:O	1:G:79:ILE:HG23	1.90	0.71
1:B:122:ILE:HD12	1:B:122:ILE:N	2.02	0.71
2:C:273:GLY:HA2	2:C:276:LYS:NZ	2.05	0.71
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.70	0.71
2:H:193:LEU:HD23	2:H:307:LEU:HD22	1.72	0.71
3:D:116:LEU:HD22	3:D:118:LEU:CD1	2.20	0.71
2:M:265:ARG:HB3	2:M:267:TYR:CE2	2.25	0.71
3:I:872:ARG:HE	1:L:162:ILE:HG21	1.56	0.71
2:H:897:LEU:HB3	2:H:899:GLN:HE21	1.53	0.71
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.56	0.71
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.72	0.71
3:N:211:VAL:O	3:N:213:VAL:HG23	1.91	0.71
1:K:98:THR:CG2	1:K:141:GLU:HG3	2.21	0.71
3:I:398:ALA:HB2	3:I:447:VAL:HG12	1.71	0.71
3:N:623:VAL:HG12	3:N:624:ASP:O	1.90	0.71
3:I:1025:GLN:HA	3:I:1025:GLN:NE2	2.03	0.71
1:B:132:LEU:HD21	1:B:138:LEU:HB3	1.72	0.71
1:G:71:VAL:HG21	1:G:138:LEU:HD12	1.73	0.71
3:D:168:THR:HG22	3:D:169:TYR:N	2.05	0.71
2:H:221:LEU:C	2:H:223:ASP:H	1.93	0.71
3:I:139:GLY:O	3:I:147:VAL:HB	1.90	0.71
3:I:615:ARG:NE	3:I:619:LEU:HD21	2.05	0.71
3:N:676:MET:SD	3:N:684:LYS:CE	2.78	0.71
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.17	0.71
3:N:1211:MET:CG	3:N:1212:ALA:H	2.00	0.71
1:L:41:ARG:NH1	1:L:177:VAL:HG23	2.03	0.71
3:I:817:GLU:O	3:I:821:VAL:HG23	1.91	0.71
3:N:1156:LEU:HD12	3:N:1176:LYS:HE3	1.71	0.71
2:C:64:LEU:HB2	2:C:359:MET:CG	2.20	0.71
3:I:26:VAL:CG2	3:I:93:ILE:HG12	2.21	0.71
3:D:174:GLY:H	3:D:209:ARG:HH11	1.36	0.71
3:D:159:ARG:HH22	2:H:218:VAL:CB	2.04	0.71
3:I:645:PRO:HD3	3:I:726:ILE:HG12	1.72	0.71
2:C:182:VAL:CG2	2:C:193:LEU:HB3	2.20	0.71
2:C:195:LEU:HG	2:C:238:LEU:HG	1.73	0.71
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.25	0.71
2:M:141:HIS:HB3	2:M:418:LEU:HB3	1.71	0.71
2:H:313:LEU:CA	2:H:320:HIS:ND1	2.54	0.71
2:C:564:MET:CE	2:C:846:LYS:HD2	2.20	0.71
3:N:26:VAL:CG2	3:N:93:ILE:HG12	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:408:GLU:OE2	3:I:409:VAL:HG23	1.91	0.71
3:D:817:GLU:O	3:D:821:VAL:HG23	1.91	0.71
1:F:58:ILE:HD13	1:F:140:MET:CB	2.19	0.71
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.55	0.71
3:I:1453:ALA:O	3:I:1455:LYS:N	2.23	0.71
1:A:170:VAL:O	1:A:170:VAL:HG23	1.91	0.71
1:A:62:LEU:HD12	1:A:62:LEU:N	2.04	0.71
3:I:734:GLU:OE1	7:Y:38:GLU:O	2.09	0.71
1:A:26:GLU:OE2	1:A:194:LYS:HE3	1.90	0.71
3:D:181:ASP:O	3:D:204:LEU:HA	1.91	0.71
2:H:1081:VAL:CG2	2:H:1111:ILE:HG22	2.15	0.71
2:C:224:GLU:CB	2:C:228:ALA:CB	2.53	0.71
2:M:66:LEU:HD22	2:M:372:LEU:CD2	2.20	0.71
3:N:1029:ARG:HB3	3:N:1029:ARG:HH11	1.56	0.71
3:N:165:LYS:HZ2	3:N:199:LEU:HD22	1.55	0.71
1:G:74:ASP:HB2	3:I:872:ARG:NH2	2.04	0.71
1:L:187:GLY:O	3:N:688:TRP:CD1	2.41	0.71
3:I:606:ILE:HD11	3:I:613:ARG:HE	1.54	0.71
2:M:1105:LYS:HZ3	2:M:1107:ASN:HB2	1.54	0.71
1:F:80:LEU:HD23	1:F:81:ASN:N	2.05	0.71
1:F:170:VAL:HG23	1:F:170:VAL:O	1.91	0.71
3:I:561:GLY:O	3:I:563:PRO:HD3	1.90	0.71
2:M:1045:ALA:HB1	2:M:1048:THR:HB	1.72	0.71
3:D:54:LYS:HD2	3:D:55:ASP:H	1.54	0.71
1:L:20:TYR:HD2	1:L:21:GLY:H	1.36	0.71
2:C:512:ARG:HA	2:C:523:ILE:HD11	1.72	0.71
3:I:127:LEU:HD12	3:I:457:GLY:HA2	1.72	0.70
2:H:167:LYS:HD2	2:H:415:PRO:O	1.90	0.70
2:M:270:GLY:O	2:M:274:ARG:HD3	1.91	0.70
3:D:26:VAL:CG2	3:D:93:ILE:HG12	2.21	0.70
2:H:358:ARG:HH22	2:H:374:ASN:CG	1.94	0.70
2:C:292:ARG:HG2	2:C:299:LYS:HB3	1.73	0.70
2:M:1008:ARG:HH12	2:M:1010:THR:HA	1.56	0.70
2:C:720:GLU:HA	2:C:759:THR:O	1.91	0.70
2:C:347:GLY:HA3	2:C:378:LEU:HD12	1.73	0.70
3:I:939:PHE:O	3:I:942:SER:HB3	1.91	0.70
3:D:23:TYR:O	3:D:49:ILE:HG23	1.90	0.70
2:M:172:ILE:HG23	2:M:186:VAL:CG1	2.20	0.70
3:D:414:ARG:HB3	3:D:450:TYR:CE1	2.26	0.70
2:M:242:LEU:HD12	2:M:254:VAL:HG11	1.73	0.70
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:166:GLN:NE2	3:N:394:LEU:HB2	2.06	0.70
7:Y:89:VAL:HG11	7:Y:91:LEU:HD21	1.73	0.70
3:N:617:ASN:ND2	3:N:1467:ILE:HA	2.05	0.70
2:M:498:GLN:OE1	3:N:1068:LEU:HD12	1.90	0.70
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.71	0.70
3:N:1487:VAL:HG12	3:N:1488:ASP:N	2.04	0.70
1:K:183:ASP:O	1:K:192:LEU:O	2.09	0.70
2:M:253:ALA:O	2:M:256:TYR:HB3	1.91	0.70
3:D:181:ASP:HA	3:D:205:TYR:HD2	1.56	0.70
2:M:39:ARG:HE	2:M:45:GLN:HE22	1.31	0.70
2:M:52:PHE:O	2:M:54:ILE:N	2.24	0.70
3:D:127:LEU:CD1	3:D:461:ILE:HD11	2.21	0.70
2:H:1106:ASP:OD1	3:I:7:LYS:HD3	1.90	0.70
2:H:260:LEU:CB	2:H:291:ALA:HB1	2.19	0.70
2:M:657:ASP:OD1	2:M:662:GLU:CA	2.38	0.70
3:N:762:GLN:NE2	4:O:20:THR:OG1	2.24	0.70
2:M:524:VAL:HG12	2:M:525:SER:N	2.04	0.70
2:M:496:ILE:HD12	2:M:496:ILE:N	2.06	0.70
3:D:141:ILE:HG13	3:D:448:GLU:CD	2.12	0.70
2:H:1082:PRO:HG2	3:I:1469:GLY:HA3	1.73	0.70
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.03	0.70
2:C:141:HIS:HB3	2:C:418:LEU:HD23	1.73	0.70
3:I:116:LEU:HD22	3:I:118:LEU:CG	2.15	0.70
3:N:949:ILE:N	3:N:949:ILE:HD12	2.05	0.70
3:N:205:TYR:HD1	3:N:390:PRO:HB3	1.55	0.70
1:G:74:ASP:HB2	1:L:162:ILE:HB	1.72	0.70
3:I:115:LEU:HD12	3:I:502:PHE:CE1	2.24	0.70
3:I:1438:ALA:O	3:I:1443:THR:HG22	1.90	0.70
3:I:166:GLN:HG2	3:I:396:VAL:HG12	1.72	0.70
2:C:148:PHE:CE1	2:C:309:TYR:HD2	2.09	0.70
2:C:36:PRO:C	2:C:39:ARG:HG3	2.12	0.70
2:H:73:LEU:HB2	2:H:93:PRO:O	1.92	0.70
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.07	0.70
2:C:12:VAL:HG22	2:C:13:ILE:HG23	1.74	0.70
7:Z:13:GLU:HG2	7:Z:17:GLN:HE21	1.56	0.70
1:B:165:ILE:N	1:B:165:ILE:HD13	2.06	0.70
2:C:1004:LYS:O	3:D:629:SER:HA	1.90	0.70
2:M:571:LEU:HD11	2:M:701:THR:N	2.06	0.70
3:N:809:PRO:O	3:N:812:ALA:HB3	1.90	0.70
2:H:261:ILE:HD13	2:H:262:ALA:H	1.56	0.70
2:H:1015:LEU:N	2:H:1015:LEU:HD12	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1105:LYS:HZ3	2:C:1107:ASN:HB2	1.56	0.70
2:M:1012:PRO:HD2	2:M:1026:GLN:CG	2.21	0.70
2:H:64:LEU:HB2	2:H:359:MET:CG	2.20	0.70
2:H:996:LYS:NZ	2:H:1000:MET:SD	2.62	0.70
2:M:516:ARG:HG3	3:N:1068:LEU:HD11	1.74	0.70
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.20	0.70
1:F:13:VAL:HG22	1:F:23:PHE:HD1	1.57	0.70
3:I:1156:LEU:HD12	3:I:1176:LYS:HE3	1.73	0.70
2:C:447:ALA:O	2:C:448:ASN:HB2	1.91	0.70
2:H:496:ILE:H	2:H:496:ILE:HD12	1.57	0.70
2:M:154:ARG:NH1	2:M:178:PRO:HD3	2.05	0.70
4:E:73:LEU:H	4:E:73:LEU:HD12	1.55	0.70
3:D:781:PRO:HB2	3:D:786:ILE:HD11	1.73	0.70
2:M:100:LEU:HD12	2:M:100:LEU:O	1.92	0.70
3:N:1468:LEU:CD1	3:N:1470:ARG:HE	2.05	0.70
3:N:362:GLU:O	3:N:379:ALA:HB1	1.91	0.70
3:D:631:ILE:HD13	3:D:631:ILE:O	1.92	0.70
2:H:15:LEU:CD1	2:H:15:LEU:H	2.05	0.70
2:H:512:ARG:HA	2:H:523:ILE:HD11	1.72	0.70
3:I:1041:LEU:O	3:I:1041:LEU:HD23	1.90	0.70
2:C:191:PHE:HZ	2:C:196:LEU:HB2	1.57	0.70
3:N:992:ILE:HD12	3:N:1054:GLU:OE2	1.91	0.70
2:H:1084:SER:CB	3:I:617:ASN:OD1	2.37	0.70
3:N:680:GLN:CG	3:N:682:ASP:O	2.36	0.70
2:C:676:ILE:HG22	2:C:988:VAL:O	1.92	0.70
2:H:344:PHE:CE2	2:H:378:LEU:HD21	2.26	0.70
2:C:1090:LYS:HE3	3:D:90:MET:HG2	1.74	0.70
3:N:982:PHE:CD2	3:N:982:PHE:N	2.60	0.70
3:N:631:ILE:HD13	3:N:631:ILE:O	1.92	0.70
3:I:1472:ILE:HG22	3:I:1473:PRO:HD2	1.74	0.70
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.72	0.70
1:B:55:SER:OG	1:B:158:ILE:HB	1.90	0.70
1:K:54:THR:HG22	1:K:158:ILE:HD11	1.73	0.70
1:B:106:PRO:HG3	1:B:134:GLU:HA	1.74	0.70
3:N:1122:LEU:N	3:N:1122:LEU:HD12	2.06	0.70
2:C:949:LYS:HD3	3:D:796:ARG:NH2	2.07	0.70
1:A:150:TYR:HB2	2:C:696:LYS:HE2	1.73	0.70
2:C:593:ALA:HB1	2:C:659:PRO:HD2	1.74	0.70
2:H:472:ARG:HD2	2:H:480:THR:O	1.91	0.70
3:D:141:ILE:HD13	3:D:142:LEU:N	2.06	0.70
3:D:685:ASP:O	3:D:689:ASP:CG	2.30	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:564:MET:CE	2:M:846:LYS:HE2	2.10	0.70
3:N:643:GLY:O	3:N:726:ILE:HG23	1.92	0.70
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.21	0.70
2:M:911:GLU:OE1	3:N:951:ILE:CG1	2.39	0.70
3:D:158:TYR:HD1	3:D:162:ARG:CG	2.04	0.70
3:N:347:VAL:HG22	3:N:368:VAL:HG11	1.72	0.70
3:I:906:GLN:HB3	3:I:911:LEU:HD11	1.74	0.70
1:K:170:VAL:HG23	1:K:170:VAL:O	1.91	0.70
1:G:173:PRO:O	1:G:201:THR:HG22	1.92	0.70
3:I:126:VAL:O	3:I:130:SER:CB	2.32	0.70
2:M:101:ILE:CA	2:M:108:ILE:HG12	2.22	0.70
3:N:645:PRO:HD3	3:N:726:ILE:HG12	1.72	0.70
3:D:484:PRO:HB3	3:D:488:ARG:HE	1.56	0.70
2:M:1092:LEU:HD13	2:M:1099:VAL:CG2	2.10	0.70
3:N:561:GLY:O	3:N:563:PRO:HD2	1.91	0.70
3:N:18:ILE:CG2	3:N:518:PRO:HG3	2.21	0.70
2:C:89:THR:HG21	2:C:383:ARG:NH2	2.05	0.70
3:N:1312:LEU:CD1	3:N:1327:ARG:NH2	2.55	0.70
7:Z:14:ARG:HH11	7:Z:14:ARG:CB	2.00	0.70
1:A:98:THR:CG2	1:A:141:GLU:HG3	2.21	0.70
7:Y:102:VAL:HG21	7:Y:125:MET:CE	2.22	0.70
3:D:1312:LEU:CD1	3:D:1327:ARG:NH2	2.55	0.70
2:C:136:ILE:N	2:C:136:ILE:HD12	2.06	0.70
3:D:50:PHE:CD2	3:D:522:PRO:CG	2.75	0.70
3:N:676:MET:SD	3:N:684:LYS:HE3	2.32	0.70
2:M:1111:ILE:HG12	2:M:1112:PHE:N	2.05	0.70
3:D:643:GLY:O	3:D:726:ILE:HG23	1.92	0.70
2:H:185:LYS:CD	2:H:190:LYS:HG2	2.15	0.70
3:D:484:PRO:HB3	3:D:488:ARG:HG3	1.74	0.70
3:N:774:SER:HB3	3:N:1362:LYS:O	1.91	0.70
3:I:696:HIS:CD2	4:J:58:PRO:HB3	2.26	0.70
2:H:258:TYR:CD2	2:H:290:LEU:HD11	2.26	0.70
3:D:843:PHE:HE1	3:D:864:VAL:HG11	1.56	0.70
2:C:516:ARG:HE	3:D:1068:LEU:HD13	1.57	0.70
2:H:906:PHE:CE1	3:I:1067:VAL:HA	2.27	0.70
2:M:1014:SER:HB2	2:M:1021:LEU:HD13	1.73	0.70
1:L:33:GLY:O	1:L:195:LEU:HD22	1.92	0.70
2:C:11:GLU:HG2	2:C:537:LYS:HZ1	1.56	0.70
2:C:611:ILE:CD1	2:C:625:LEU:HD21	2.22	0.70
2:C:729:LEU:HG	2:C:729:LEU:O	1.92	0.70
2:H:322:VAL:HG23	2:H:322:VAL:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.74	0.70
3:D:154:THR:HG23	3:D:157:GLU:OE2	1.92	0.69
3:N:939:PHE:O	3:N:942:SER:HB3	1.92	0.69
3:D:87:ARG:HB3	3:D:523:ASP:HB2	0.78	0.69
3:N:126:VAL:O	3:N:130:SER:HB3	1.91	0.69
1:L:185:ARG:CZ	3:N:692:GLU:CG	2.62	0.69
3:I:166:GLN:NE2	3:I:394:LEU:HD12	2.07	0.69
3:N:1292:VAL:HG11	3:N:1325:LEU:HG	1.74	0.69
3:N:108:VAL:CB	3:N:109:PRO:HD3	2.22	0.69
1:B:173:PRO:O	1:B:201:THR:HG22	1.92	0.69
3:I:804:LEU:HB2	3:I:831:GLY:HA2	1.73	0.69
2:C:64:LEU:HB2	2:C:359:MET:HG3	1.74	0.69
3:I:44:LEU:O	3:I:522:PRO:HG2	1.90	0.69
1:G:185:ARG:HH11	3:I:692:GLU:HB3	1.54	0.69
3:D:44:LEU:O	3:D:50:PHE:CE1	2.45	0.69
2:H:1091:GLU:HB3	3:I:607:LEU:HD21	1.72	0.69
2:M:191:PHE:HD2	2:M:195:LEU:HD23	1.57	0.69
4:E:36:LYS:NZ	4:E:36:LYS:CA	2.55	0.69
1:K:58:ILE:HD13	1:K:140:MET:CB	2.19	0.69
2:M:408:ARG:HH21	2:M:455:LEU:HD12	1.55	0.69
3:D:980:MET:HB3	3:D:982:PHE:CE2	2.27	0.69
2:H:18:LEU:HD13	2:H:590:ASP:CG	2.13	0.69
3:I:1277:ILE:HD13	3:I:1301:LYS:HB2	1.74	0.69
2:H:442:GLU:HG2	2:H:454:SER:HB2	1.74	0.69
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.57	0.69
2:C:1030:GLN:NE2	3:D:628:ARG:HG2	2.07	0.69
1:G:122:ILE:HD12	1:G:122:ILE:N	2.07	0.69
3:D:734:GLU:OE1	7:X:38:GLU:O	2.09	0.69
2:M:447:ALA:O	2:M:448:ASN:HB2	1.91	0.69
3:D:1442:ASN:ND2	3:D:1444:THR:HB	2.07	0.69
1:G:80:LEU:CD2	3:I:867:ARG:HB2	2.21	0.69
3:D:484:PRO:CB	3:D:488:ARG:HG3	2.23	0.69
2:H:101:ILE:HD13	2:H:108:ILE:HG23	1.73	0.69
2:M:588:VAL:HG21	2:M:664:GLY:O	1.92	0.69
1:F:54:THR:HG22	1:F:158:ILE:HD11	1.74	0.69
2:H:9:ILE:HG12	2:H:907:ASP:CB	2.21	0.69
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.92	0.69
3:D:1453:ALA:O	3:D:1455:LYS:N	2.25	0.69
3:D:159:ARG:HH22	2:H:218:VAL:CG1	2.06	0.69
2:M:80:GLN:HG2	2:M:90:TYR:CD2	2.27	0.69
2:C:885:ILE:HG13	3:D:949:ILE:CG2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:134:VAL:O	3:N:454:ALA:HB1	1.92	0.69
1:L:185:ARG:NH1	3:N:692:GLU:HB3	2.07	0.69
3:I:465:LEU:HD21	3:I:509:PRO:HB2	1.75	0.69
3:D:1102:THR:OG1	3:D:1226:ALA:HB2	1.92	0.69
2:C:1036:GLU:HG3	3:D:707:THR:OG1	1.92	0.69
3:N:639:LEU:CD1	3:N:766:ALA:HB2	2.22	0.69
3:I:1273:VAL:HG22	3:I:1326:THR:OG1	1.92	0.69
3:N:394:LEU:H	3:N:394:LEU:HD23	1.56	0.69
1:B:152:PRO:HG2	3:D:857:ILE:CD1	2.22	0.69
2:H:242:LEU:CD1	2:H:254:VAL:HG11	2.22	0.69
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.74	0.69
3:D:495:ARG:O	3:D:499:VAL:HG23	1.90	0.69
3:D:111:LYS:HG2	3:D:1452:ILE:CD1	2.23	0.69
2:C:15:LEU:HD12	2:C:15:LEU:H	1.57	0.69
4:J:41:GLU:O	4:J:45:ARG:HD2	1.93	0.69
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.13	0.69
3:N:50:PHE:CE2	3:N:522:PRO:HG3	2.27	0.69
2:C:182:VAL:HG11	2:C:193:LEU:CB	2.23	0.69
2:M:69:LEU:HD21	2:M:99:GLN:HE21	1.57	0.69
3:D:133:ILE:HG22	3:D:134:VAL:N	2.06	0.69
3:N:681:ARG:HG3	3:N:682:ASP:N	2.07	0.69
2:H:1102:LEU:N	3:I:7:LYS:O	2.25	0.69
2:M:1095:LEU:HB2	3:N:101:HIS:CE1	2.27	0.69
2:M:211:LEU:HD23	2:M:221:LEU:CD2	2.22	0.69
2:M:243:ARG:HB3	2:M:244:PRO:CD	2.16	0.69
3:N:1256:LEU:HG	3:N:1260:ILE:CD1	2.21	0.69
2:H:564:MET:CE	2:H:846:LYS:CE	2.70	0.69
3:I:160:GLU:HG2	3:I:165:LYS:CB	2.21	0.69
3:I:982:PHE:N	3:I:982:PHE:CD2	2.60	0.69
3:N:465:LEU:HD21	3:N:509:PRO:HB2	1.75	0.69
1:L:173:PRO:O	1:L:201:THR:HG22	1.92	0.69
2:H:1036:GLU:OE1	2:H:1036:GLU:N	2.25	0.69
1:F:24:VAL:HG22	1:F:196:THR:HG22	1.73	0.69
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.75	0.69
4:E:41:GLU:O	4:E:45:ARG:HD2	1.93	0.69
3:D:352:ASN:OD1	2:H:284:ARG:NH2	2.25	0.69
3:I:119:SER:HB2	3:I:123:LEU:CB	2.19	0.69
2:C:877:PRO:HG3	3:D:1023:MET:SD	2.32	0.69
1:G:74:ASP:CB	3:I:872:ARG:HH22	2.04	0.69
4:J:54:LEU:HA	4:J:58:PRO:HG2	1.74	0.69
3:N:407:VAL:HG22	3:N:408:GLU:N	2.02	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1012:PRO:HD2	2:C:1026:GLN:CG	2.22	0.69
3:I:980:MET:HB3	3:I:982:PHE:CE2	2.27	0.69
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.22	0.69
3:I:415:VAL:HG13	3:I:419:ASP:HB2	1.75	0.69
2:H:906:PHE:CZ	3:I:1067:VAL:HA	2.28	0.69
2:C:364:GLU:O	2:C:367:LEU:HG	1.91	0.69
3:N:1025:GLN:HE21	3:N:1025:GLN:HA	1.55	0.69
2:M:512:ARG:HA	2:M:523:ILE:HD11	1.72	0.69
2:M:723:THR:HG23	2:M:725:ASP:H	1.58	0.69
3:D:939:PHE:O	3:D:942:SER:HB3	1.92	0.69
4:J:54:LEU:HD23	4:J:58:PRO:CD	2.23	0.69
3:N:980:MET:HB3	3:N:982:PHE:CE2	2.27	0.69
3:N:171:LEU:HD21	3:N:175:VAL:HB	1.72	0.69
2:M:31:GLN:HG3	2:M:34:VAL:CG2	2.22	0.69
7:Y:57:ARG:HB2	7:Y:57:ARG:HH21	1.56	0.69
2:C:603:VAL:HG13	2:C:613:VAL:HG12	1.74	0.69
3:D:1146:GLY:CA	3:D:1207:TYR:CB	2.69	0.69
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.13	0.69
2:H:987:ILE:HD11	3:I:946:GLY:CA	2.22	0.69
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.93	0.69
3:N:415:VAL:HG13	3:N:419:ASP:HB2	1.75	0.69
3:N:432:TYR:CG	3:N:450:TYR:HD2	2.11	0.69
2:M:571:LEU:HD21	2:M:699:PHE:O	1.92	0.69
2:H:276:LYS:HA	2:H:280:LYS:HD2	1.75	0.69
3:I:1442:ASN:ND2	3:I:1445:HIS:H	1.91	0.69
1:K:11:PHE:HB2	1:K:25:LEU:HD13	1.75	0.69
3:N:116:LEU:CD2	3:N:118:LEU:HG	2.18	0.69
3:D:1211:MET:CG	3:D:1212:ALA:H	2.00	0.69
2:H:187:ASN:O	2:H:188:LYS:HB3	1.90	0.69
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.92	0.69
1:K:75:VAL:O	1:K:79:ILE:HG23	1.92	0.69
3:I:1462:LEU:HD22	3:I:1472:ILE:CG2	2.23	0.69
2:H:129:ILE:HG22	2:H:130:ASN:N	2.07	0.69
3:I:982:PHE:CG	7:Y:125:MET:SD	2.86	0.69
3:N:1359:GLN:HE22	7:Z:52:LYS:CD	2.06	0.69
2:H:374:ASN:H	2:H:374:ASN:HD22	1.40	0.69
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.75	0.69
2:M:135:VAL:HG11	2:M:407:LYS:HA	1.75	0.69
3:N:1489:GLN:O	3:N:1493:LYS:HG2	1.93	0.69
2:M:754:ILE:H	2:M:754:ILE:HD12	1.57	0.69
3:N:1124:GLN:OE1	3:N:1135:ARG:HA	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.57	0.69
3:I:452:ILE:HD13	3:I:452:ILE:O	1.93	0.69
2:M:52:PHE:CZ	2:M:98:LEU:CG	2.73	0.69
2:M:987:ILE:CG2	3:N:948:THR:HG21	2.13	0.69
2:C:885:ILE:HG13	3:D:949:ILE:HG22	1.75	0.69
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.74	0.69
1:A:42:ARG:NH1	1:B:34:VAL:HG12	2.07	0.69
3:N:379:ALA:O	3:N:380:GLU:HG3	1.92	0.69
2:H:89:THR:HA	2:H:129:ILE:O	1.92	0.69
1:B:153:ALA:HA	1:B:156:HIS:HE2	1.58	0.69
7:Y:83:ILE:HD13	7:Y:89:VAL:HG21	1.75	0.69
2:H:580:MET:SD	2:H:584:GLU:HG3	2.33	0.69
3:I:1123:PHE:HE2	3:I:1184:GLN:HA	1.58	0.69
3:I:643:GLY:O	3:I:726:ILE:HG23	1.92	0.69
2:H:987:ILE:HD11	3:I:946:GLY:HA2	1.73	0.69
3:I:127:LEU:O	3:I:457:GLY:HA2	1.92	0.69
3:D:116:LEU:O	3:D:117:ASP:HB3	1.93	0.69
2:H:565:GLN:HE21	2:H:842:ARG:CG	2.02	0.69
3:N:1261:GLU:OE1	3:N:1268:PRO:HA	1.93	0.69
1:G:41:ARG:HG3	1:G:177:VAL:CG2	2.22	0.69
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.75	0.69
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.20	0.69
2:H:863:ASP:OD1	2:H:865:THR:HG22	1.93	0.69
1:F:218:LEU:CD2	1:G:222:LEU:HD21	2.23	0.69
2:C:124:ASP:HB2	2:C:407:LYS:HZ1	1.58	0.69
3:D:481:MET:HE3	3:D:493:ARG:HA	1.74	0.69
2:C:1019:GLN:NE2	3:D:621:LYS:HG3	2.08	0.69
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.57	0.69
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.74	0.69
1:F:62:LEU:HD12	1:F:62:LEU:H	1.58	0.69
1:F:7:LYS:HE2	1:F:7:LYS:O	1.92	0.69
3:D:403:PHE:HB2	3:D:423:ASP:OD1	1.93	0.69
3:I:1280:VAL:HA	3:I:1318:TYR:HA	1.74	0.69
1:L:62:LEU:H	1:L:62:LEU:HD12	1.57	0.69
1:A:31:GLY:N	1:A:193:ASP:OD1	2.23	0.69
2:H:316:GLY:C	2:H:318:PRO:HD3	2.14	0.68
3:I:1026:SER:C	3:I:1028:ALA:H	1.96	0.68
2:M:129:ILE:O	2:M:131:GLY:N	2.26	0.68
2:M:309:TYR:O	2:M:313:LEU:HB2	1.92	0.68
2:H:309:TYR:C	2:H:313:LEU:HD13	2.11	0.68
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.17	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:11:PHE:HE1	1:K:23:PHE:HB3	1.58	0.68
3:D:1288:GLU:O	3:D:1289:LYS:HG3	1.93	0.68
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.28	0.68
2:H:395:LYS:HD3	2:H:397:GLU:OE2	1.93	0.68
2:M:261:ILE:CD1	2:M:261:ILE:H	2.04	0.68
4:O:33:HIS:CG	4:O:89:MET:HG2	2.28	0.68
2:C:101:ILE:HG23	2:C:108:ILE:HG12	1.75	0.68
1:G:87:VAL:HG21	1:G:144:VAL:HG11	1.76	0.68
2:H:497:ALA:HA	2:H:515:ALA:HA	1.75	0.68
3:I:153:LEU:HD13	3:I:158:TYR:HB2	1.75	0.68
3:D:783:ARG:NH1	7:X:41:ASP:HB2	2.09	0.68
2:H:113:VAL:O	2:H:115:LEU:HD23	1.93	0.68
2:M:184:MET:HB2	2:M:193:LEU:HG	1.73	0.68
2:M:224:GLU:O	2:M:228:ALA:HB3	1.93	0.68
2:C:996:LYS:NZ	2:C:1000:MET:SD	2.64	0.68
3:I:1312:LEU:CD1	3:I:1327:ARG:NH2	2.55	0.68
3:I:631:ILE:HD13	3:I:631:ILE:O	1.92	0.68
1:F:161:ARG:HB2	1:F:161:ARG:CZ	2.20	0.68
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.57	0.68
3:I:799:LYS:HD3	3:I:826:PRO:HG2	1.74	0.68
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.28	0.68
3:D:1276:GLU:C	3:D:1277:ILE:HD12	2.13	0.68
2:C:984:GLU:HG2	3:D:944:THR:O	1.94	0.68
2:H:1045:ALA:HB1	2:H:1048:THR:HB	1.75	0.68
2:M:357:GLU:O	2:M:360:LEU:HD23	1.93	0.68
2:H:1060:ILE:HD11	3:I:85:VAL:H	1.56	0.68
3:N:780:LYS:NZ	7:Z:38:GLU:HB3	2.08	0.68
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.56	0.68
3:N:81:THR:HG21	3:N:85:VAL:HG11	1.76	0.68
3:N:406:ASP:O	3:N:422:ALA:HB1	1.93	0.68
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.74	0.68
2:C:408:ARG:NH2	2:C:455:LEU:HD11	2.08	0.68
7:Y:102:VAL:HG21	7:Y:125:MET:HE1	1.75	0.68
2:C:950:LEU:HD12	2:C:952:LEU:HD21	1.75	0.68
1:B:33:GLY:O	1:B:195:LEU:HD22	1.93	0.68
1:F:24:VAL:HG13	1:F:196:THR:HG22	1.76	0.68
2:C:580:MET:SD	2:C:584:GLU:HG3	2.33	0.68
3:D:1111:ASP:OD1	3:D:1203:LYS:HD2	1.93	0.68
2:C:258:TYR:CE2	2:C:290:LEU:HD11	2.29	0.68
3:I:615:ARG:HG3	3:I:619:LEU:CD2	2.23	0.68
3:N:520:LEU:CD1	3:N:521:PRO:HD2	2.20	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:128:TYR:CE2	3:N:458:ALA:HA	2.28	0.68
3:D:1105:ILE:HD12	3:D:1105:ILE:N	2.09	0.68
3:D:1101:VAL:CG1	3:D:1424:VAL:O	2.41	0.68
2:C:673:LEU:HD22	2:C:867:VAL:HG12	1.75	0.68
2:M:854:PRO:HB2	2:M:856:GLU:CG	2.24	0.68
3:I:143:ASN:CA	3:I:161:LEU:HD11	2.24	0.68
3:D:881:LEU:HD21	3:D:941:PHE:CZ	2.28	0.68
3:I:799:LYS:HD3	3:I:799:LYS:O	1.93	0.68
2:M:580:MET:SD	2:M:584:GLU:HG3	2.34	0.68
3:I:1166:LEU:HD23	3:I:1166:LEU:H	1.59	0.68
2:H:274:ARG:NH1	2:H:274:ARG:HG2	2.09	0.68
2:C:432:ARG:NH2	3:D:1047:LYS:HD3	2.08	0.68
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.07	0.68
2:M:22:GLN:HE21	2:M:336:VAL:HG22	1.59	0.68
3:N:187:LYS:HE2	3:N:199:LEU:HG	1.75	0.68
2:M:666:LEU:HG	2:M:668:LEU:HD11	1.75	0.68
3:N:501:ALA:HB3	3:N:1452:ILE:HG22	1.73	0.68
2:C:473:ARG:HB2	2:C:531:PHE:HE1	1.56	0.68
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.74	0.68
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.28	0.68
3:D:166:GLN:HE21	3:D:396:VAL:HG12	1.58	0.68
2:C:294:GLU:O	2:C:295:ASP:HB2	1.94	0.68
2:M:111:ASP:OD2	2:M:369:PRO:HB3	1.91	0.68
3:N:781:PRO:HB2	3:N:786:ILE:HD11	1.74	0.68
3:D:458:ALA:HB2	3:D:575:GLN:NE2	2.09	0.68
2:M:334:ARG:HG2	2:M:338:GLU:CD	2.14	0.68
2:M:84:ARG:NH1	2:M:84:ARG:HG3	2.01	0.68
3:N:88:TYR:N	3:N:88:TYR:CD2	2.58	0.68
2:C:878:SER:HB3	3:D:1029:ARG:NH1	2.07	0.68
2:H:39:ARG:HB2	2:H:45:GLN:NE2	2.07	0.68
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.75	0.68
2:M:611:ILE:HG13	2:M:625:LEU:HD21	1.74	0.68
3:I:1261:GLU:OE1	3:I:1268:PRO:HA	1.93	0.68
1:A:218:LEU:HD23	1:B:222:LEU:CD2	2.22	0.68
3:N:115:LEU:HD12	3:N:502:PHE:CE1	2.28	0.68
1:L:152:PRO:HG2	3:N:857:ILE:CD1	2.23	0.68
1:A:186:LEU:HD23	1:A:186:LEU:C	2.14	0.68
1:L:206:THR:HG22	1:L:209:GLU:H	1.58	0.68
2:H:705:ILE:HG12	2:H:828:ALA:HB2	1.74	0.68
2:H:570:PRO:HD2	2:H:635:THR:HG21	1.76	0.68
2:H:1081:VAL:HG13	2:H:1085:PHE:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:781:PRO:HB2	3:I:786:ILE:HD11	1.74	0.68
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.24	0.68
2:M:1081:VAL:HG13	2:M:1085:PHE:HB3	1.75	0.68
3:N:180:LYS:HZ1	3:N:386:HIS:CA	2.06	0.68
1:G:74:ASP:CB	3:I:872:ARG:NH2	2.57	0.68
2:C:1081:VAL:HG13	2:C:1085:PHE:HB3	1.76	0.68
3:I:1101:VAL:HG13	3:I:1428:ALA:HB2	1.76	0.68
2:M:1036:GLU:HG3	3:N:707:THR:OG1	1.92	0.68
3:I:881:LEU:HD21	3:I:941:PHE:CZ	2.28	0.68
3:N:1277:ILE:HD13	3:N:1301:LYS:HB2	1.74	0.68
1:K:62:LEU:H	1:K:62:LEU:HD12	1.59	0.68
2:M:236:ILE:HD12	2:M:236:ILE:N	2.08	0.68
2:M:570:PRO:HD2	2:M:635:THR:HG21	1.76	0.68
2:C:1055:LEU:HD22	2:C:1066:ALA:HB2	1.75	0.68
3:D:205:TYR:CD1	3:D:390:PRO:HG3	2.29	0.68
3:N:1003:VAL:HG11	3:N:1041:LEU:HD22	1.76	0.68
3:D:126:VAL:CG1	3:D:132:TYR:CB	2.71	0.68
3:I:108:VAL:CB	3:I:109:PRO:HD3	2.22	0.68
7:Z:102:VAL:HG11	7:Z:125:MET:CE	2.24	0.68
2:M:1012:PRO:HD2	2:M:1026:GLN:CB	2.24	0.68
3:N:361:VAL:HG11	3:N:367:ILE:HD11	1.75	0.68
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.29	0.68
1:A:128:HIS:HE1	1:A:131:THR:HG23	1.58	0.68
2:M:661:SER:HA	2:M:665:PHE:O	1.94	0.68
1:A:54:THR:HG22	1:A:158:ILE:HD11	1.73	0.68
1:L:123:MET:C	1:L:125:PRO:HD3	2.14	0.68
1:B:19:GLU:HG3	1:B:201:THR:O	1.94	0.68
3:I:843:PHE:CE1	3:I:864:VAL:HG11	2.29	0.68
2:C:754:ILE:H	2:C:754:ILE:HD12	1.57	0.68
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.74	0.68
1:A:62:LEU:HD12	1:A:62:LEU:H	1.58	0.68
3:D:1128:VAL:HG13	3:D:1129:THR:HG22	1.76	0.68
2:H:224:GLU:O	2:H:228:ALA:HB3	1.94	0.68
3:I:590:PRO:HB2	3:I:600:LEU:CD1	2.24	0.68
2:C:257:VAL:HG12	2:C:263:ASP:OD1	1.94	0.68
2:H:666:LEU:HG	2:H:668:LEU:HD11	1.76	0.68
1:G:88:ARG:HD2	1:G:123:MET:SD	2.33	0.68
2:H:879:ARG:NH2	7:Y:42:ASP:OD1	2.27	0.68
1:K:58:ILE:CD1	1:K:140:MET:HB3	2.23	0.68
2:C:1105:LYS:HZ1	2:C:1107:ASN:HB2	1.59	0.68
2:H:195:LEU:HD11	2:H:234:ALA:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:148:PHE:CE1	2:C:309:TYR:HB3	2.29	0.68
3:D:987:GLU:OE1	7:X:120:SER:CB	2.42	0.68
3:D:465:LEU:HD21	3:D:509:PRO:HB2	1.74	0.68
3:N:881:LEU:HD21	3:N:941:PHE:HZ	1.58	0.68
3:N:1485:GLN:O	4:O:75:PHE:HA	1.93	0.68
2:H:503:LEU:HD23	2:H:507:ARG:O	1.93	0.68
4:J:64:ALA:O	4:J:68:LEU:HD13	1.94	0.68
2:M:97:ARG:N	2:M:97:ARG:HD3	2.07	0.68
2:M:418:LEU:HD12	2:M:418:LEU:N	2.08	0.68
2:C:666:LEU:HG	2:C:668:LEU:HD11	1.76	0.68
3:I:115:LEU:CD1	3:I:502:PHE:CE1	2.77	0.68
3:D:158:TYR:CD1	3:D:162:ARG:CG	2.77	0.68
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.28	0.68
3:I:481:MET:HE3	3:I:493:ARG:HA	1.76	0.68
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.75	0.68
2:H:950:LEU:HD12	2:H:952:LEU:HD21	1.75	0.68
2:H:754:ILE:H	2:H:754:ILE:HD12	1.57	0.68
3:N:991:GLN:HE22	7:Z:112:VAL:HB	1.59	0.67
3:N:190:GLU:HA	3:N:196:VAL:HA	1.76	0.67
4:O:18:ARG:NH2	4:O:18:ARG:HB2	2.09	0.67
3:D:1101:VAL:HG11	3:D:1424:VAL:O	1.93	0.67
2:H:171:TRP:CH2	2:H:417:GLY:O	2.47	0.67
1:K:161:ARG:HH11	1:K:161:ARG:HB2	1.57	0.67
1:F:161:ARG:HB2	1:F:161:ARG:HH11	1.57	0.67
2:M:863:ASP:OD1	2:M:865:THR:HG22	1.93	0.67
2:C:863:ASP:OD1	2:C:865:THR:HG22	1.93	0.67
3:I:398:ALA:HB2	3:I:447:VAL:CA	2.24	0.67
1:G:19:GLU:HG3	1:G:201:THR:O	1.94	0.67
2:H:471:TYR:O	2:H:483:VAL:HG13	1.93	0.67
2:H:1098:ASP:N	3:I:11:ALA:O	2.27	0.67
2:M:1034:GLU:OE1	3:N:1096:ARG:NH2	2.26	0.67
3:D:393:ILE:N	3:D:393:ILE:HD12	2.08	0.67
1:B:187:GLY:O	3:D:688:TRP:CD1	2.42	0.67
3:N:169:TYR:CE1	3:N:198:ARG:HG3	2.30	0.67
3:N:119:SER:HB2	3:N:123:LEU:H	1.58	0.67
2:M:571:LEU:HD11	2:M:700:TYR:HA	1.74	0.67
2:M:211:LEU:CD2	2:M:221:LEU:HD21	2.20	0.67
3:I:715:ALA:HB3	3:I:764:LEU:HA	1.75	0.67
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.57	0.67
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.76	0.67
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:512:ARG:CB	2:H:523:ILE:HD11	2.24	0.67
2:C:154:ARG:NH1	2:C:178:PRO:HD3	2.09	0.67
3:D:179:VAL:HG13	3:D:183:GLU:HB3	1.76	0.67
2:C:211:LEU:HD11	2:C:311:PHE:CD1	2.30	0.67
2:M:676:ILE:HG21	2:M:988:VAL:CG1	2.21	0.67
3:D:521:PRO:HB2	3:D:524:LEU:HD13	1.76	0.67
2:C:988:VAL:HG11	3:D:949:ILE:O	1.94	0.67
2:H:1056:LYS:CD	3:I:623:VAL:CG1	2.70	0.67
3:I:785:ILE:HD12	3:I:785:ILE:N	2.02	0.67
1:A:42:ARG:NH1	1:B:34:VAL:CB	2.56	0.67
2:M:63:GLY:HA3	2:M:103:LYS:HE2	1.74	0.67
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.09	0.67
2:C:611:ILE:HG13	2:C:625:LEU:HD21	1.76	0.67
7:X:155:HIS:O	7:X:156:GLY:C	2.32	0.67
2:M:1043:TYR:CE2	3:N:710:ARG:HD2	2.29	0.67
7:Y:139:SER:HB3	7:Y:148:GLU:HG3	1.76	0.67
1:B:206:THR:HG22	1:B:209:GLU:H	1.58	0.67
2:C:272:ALA:HA	2:C:464:LEU:HD22	1.76	0.67
3:N:970:LYS:HD3	7:Z:113:LEU:HD21	1.76	0.67
2:M:98:LEU:N	2:M:98:LEU:HD12	2.09	0.67
3:N:1257:PRO:CA	3:N:1260:ILE:HD12	2.15	0.67
3:I:205:TYR:CB	3:I:393:ILE:HG13	2.24	0.67
3:D:982:PHE:N	3:D:982:PHE:CD2	2.60	0.67
3:N:1367:HIS:HA	3:N:1370:ILE:HD12	1.77	0.67
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.74	0.67
2:C:54:ILE:CG2	2:C:66:LEU:HB3	2.24	0.67
7:Y:22:GLU:HB3	7:Y:62:ILE:HD11	1.77	0.67
3:D:1321:ALA:O	3:D:1339:LYS:HD2	1.95	0.67
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.75	0.67
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.76	0.67
2:M:99:GLN:HA	2:M:109:LYS:O	1.95	0.67
2:M:47:ALA:O	2:M:50:GLU:HB3	1.94	0.67
2:M:140:ILE:HG22	2:M:333:ILE:HG13	1.76	0.67
2:C:661:SER:HA	2:C:665:PHE:O	1.94	0.67
2:H:838:LYS:O	2:H:838:LYS:HG3	1.94	0.67
1:F:128:HIS:HE1	1:F:131:THR:HG23	1.59	0.67
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.29	0.67
1:L:19:GLU:HG3	1:L:201:THR:O	1.93	0.67
3:D:890:VAL:HG11	3:D:922:LEU:CD1	2.25	0.67
3:I:1459:LEU:HB3	3:I:1465:ASN:OD1	1.95	0.67
2:H:678:PRO:HG3	2:H:873:PRO:HD2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:783:ARG:CZ	7:Z:41:ASP:HB3	2.23	0.67
7:X:57:ARG:CB	7:X:57:ARG:HH21	2.00	0.67
2:H:289:THR:O	2:H:291:ALA:N	2.26	0.67
3:D:139:GLY:N	3:D:147:VAL:HG21	2.10	0.67
2:H:878:SER:O	3:I:1034:GLN:NE2	2.27	0.67
3:N:1102:THR:HA	3:N:1105:ILE:HD13	1.76	0.67
2:C:80:GLN:HB2	2:C:84:ARG:HH12	1.60	0.67
3:I:639:LEU:CD1	3:I:766:ALA:HB2	2.21	0.67
1:F:176:ARG:HG3	1:F:200:TRP:CE3	2.29	0.67
1:G:33:GLY:O	1:G:195:LEU:HD22	1.94	0.67
3:N:1321:ALA:O	3:N:1339:LYS:HD2	1.95	0.67
3:N:1094:LEU:HG	3:N:1098:LEU:CD2	2.25	0.67
2:C:3:ILE:N	2:C:3:ILE:HD12	2.10	0.67
3:N:600:LEU:HD12	3:N:600:LEU:H	1.59	0.67
3:D:1197:ARG:HB3	3:D:1396:GLU:CD	2.15	0.67
2:H:428:ARG:HA	2:H:450:GLY:O	1.95	0.67
3:D:367:ILE:HG22	3:D:368:VAL:HG23	1.77	0.67
3:D:368:VAL:HB	3:D:377:VAL:CG2	2.24	0.67
2:H:676:ILE:O	3:I:948:THR:HG22	1.95	0.67
3:I:134:VAL:CG2	3:I:460:ALA:HB1	2.18	0.67
2:M:101:ILE:CD1	2:M:108:ILE:HD11	2.22	0.67
2:M:1086:ARG:CZ	3:N:88:TYR:CZ	2.77	0.67
2:C:878:SER:HA	3:D:1034:GLN:NE2	2.09	0.67
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.29	0.67
2:C:273:GLY:HA2	2:C:276:LYS:HZ2	1.59	0.67
3:I:800:LYS:HD2	3:I:804:LEU:HB3	1.77	0.67
3:I:881:LEU:HD21	3:I:941:PHE:HZ	1.58	0.67
3:N:860:LEU:O	3:N:877:PRO:HD2	1.95	0.67
1:B:86:VAL:CG1	1:B:124:ASN:HB2	2.24	0.67
2:C:512:ARG:CB	2:C:523:ILE:HD11	2.24	0.67
2:M:512:ARG:CB	2:M:523:ILE:HD11	2.24	0.67
2:M:391:LEU:O	2:M:393:GLN:NE2	2.28	0.67
3:I:131:LYS:HG3	3:I:568:ARG:HD3	0.68	0.67
2:C:185:LYS:CG	2:C:190:LYS:HB3	2.24	0.67
2:M:163:ILE:HD12	2:M:171:TRP:CH2	2.29	0.67
3:I:115:LEU:CD1	3:I:502:PHE:HE1	2.08	0.67
3:D:991:GLN:NE2	7:X:112:VAL:CB	2.46	0.67
2:C:368:THR:HB	2:C:369:PRO:HD2	1.75	0.67
3:D:618:LEU:HD21	3:D:1463:LYS:HE2	1.75	0.67
3:D:408:GLU:CG	3:D:409:VAL:H	2.07	0.67
3:I:1462:LEU:HD22	3:I:1472:ILE:HG22	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:881:LEU:HD21	3:D:941:PHE:HZ	1.58	0.67
1:A:74:ASP:O	1:A:78:ILE:HG12	1.95	0.67
7:X:19:LEU:O	7:X:23:ARG:HG3	1.93	0.67
2:M:480:THR:HB	2:M:482:GLU:H	1.60	0.67
3:I:860:LEU:O	3:I:877:PRO:HD2	1.95	0.67
3:D:1311:LEU:HD23	3:D:1311:LEU:N	2.10	0.67
3:I:1485:GLN:HE21	4:J:79:LEU:N	1.92	0.67
3:I:890:VAL:HG11	3:I:922:LEU:CD1	2.25	0.67
6:Q:12:G:H2'	6:Q:13:G:C8	2.30	0.67
2:M:77:PRO:HD2	2:M:91:GLN:O	1.94	0.67
3:D:1283:ILE:HG22	3:D:1284:GLU:H	1.58	0.67
1:G:162:ILE:HG13	1:G:163:ASN:N	2.10	0.67
2:M:1086:ARG:NH1	3:N:88:TYR:CE1	2.63	0.67
2:C:878:SER:OG	3:D:1029:ARG:CD	2.42	0.67
2:H:260:LEU:C	2:H:260:LEU:HD23	2.15	0.67
2:C:570:PRO:HD2	2:C:635:THR:HG21	1.75	0.67
3:N:26:VAL:HG23	3:N:26:VAL:O	1.95	0.67
3:D:860:LEU:O	3:D:877:PRO:HD2	1.95	0.67
2:H:697:ARG:HD2	2:H:699:PHE:CE1	2.30	0.67
3:I:996:TRP:CE3	3:I:999:THR:HG21	2.30	0.67
2:M:1070:ILE:HG23	3:N:656:PHE:CD1	2.29	0.67
7:Z:16:MET:HE2	7:Z:69:LEU:HD13	1.77	0.67
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.76	0.67
3:N:1403:LEU:O	3:N:1407:LEU:HB2	1.94	0.67
3:I:1403:LEU:O	3:I:1407:LEU:HB2	1.94	0.67
2:C:685:GLU:OE2	7:X:41:ASP:CB	2.43	0.67
3:I:1437:ALA:HB1	3:I:1446:VAL:HG22	1.77	0.67
3:I:625:TYR:HB3	3:I:749:VAL:HG23	1.76	0.67
2:C:95:TYR:HD2	2:C:114:PHE:CB	2.07	0.67
1:A:56:VAL:HG13	1:A:142:VAL:CG1	2.23	0.67
3:N:407:VAL:HA	3:N:422:ALA:HB2	1.77	0.67
2:C:1086:ARG:HD3	3:D:88:TYR:CD1	2.30	0.67
2:H:854:PRO:HB2	2:H:856:GLU:CG	2.24	0.67
3:I:26:VAL:HG23	3:I:26:VAL:O	1.95	0.67
3:N:1197:ARG:HB3	3:N:1396:GLU:CD	2.15	0.67
3:D:1299:PHE:H	3:D:1299:PHE:HD2	1.41	0.67
2:H:997:LEU:C	2:H:999:HIS:H	1.99	0.67
1:A:22:GLU:OE2	1:A:198:ARG:HB3	1.95	0.67
3:I:141:ILE:HG13	3:I:448:GLU:CG	2.25	0.66
2:M:838:LYS:O	2:M:838:LYS:HG3	1.94	0.66
3:N:521:PRO:HB2	3:N:524:LEU:HD13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.26	0.66
3:N:139:GLY:O	3:N:147:VAL:HB	1.95	0.66
2:H:139:GLN:HE22	2:H:415:PRO:HD3	1.60	0.66
3:N:743:ASP:OD1	6:U:16:G:O3'	2.09	0.66
2:C:473:ARG:HG2	2:C:473:ARG:NH1	2.09	0.66
2:H:713:ARG:HB3	2:H:720:GLU:OE2	1.95	0.66
2:H:137:VAL:O	2:H:391:LEU:HD21	1.95	0.66
2:M:236:ILE:CD1	2:M:236:ILE:N	2.58	0.66
2:M:137:VAL:O	2:M:391:LEU:HD21	1.95	0.66
2:H:987:ILE:HD12	3:I:948:THR:HG23	1.76	0.66
3:I:145:VAL:HG22	3:I:146:PRO:HD2	1.77	0.66
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.30	0.66
2:M:879:ARG:NH2	7:Z:42:ASP:OD1	2.28	0.66
3:D:119:SER:HB2	3:D:123:LEU:H	1.58	0.66
3:I:1466:VAL:HG12	3:I:1467:ILE:HD13	1.76	0.66
2:M:144:PRO:HA	2:M:163:ILE:O	1.94	0.66
3:D:28:LYS:HD2	3:D:29:PRO:CD	2.17	0.66
2:C:657:ASP:OD1	2:C:663:ASN:N	2.28	0.66
4:E:32:ARG:HB2	4:E:32:ARG:HH11	1.61	0.66
4:E:31:LEU:HB3	4:E:35:PHE:HE1	1.60	0.66
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.26	0.66
2:M:142:ARG:NE	2:M:325:ILE:HG23	2.11	0.66
2:H:661:SER:HA	2:H:665:PHE:O	1.94	0.66
1:A:156:HIS:HD2	1:A:157:GLY:N	1.92	0.66
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.77	0.66
2:M:1098:ASP:HB3	3:N:11:ALA:O	1.95	0.66
3:D:470:LEU:H	3:D:470:LEU:HD23	1.60	0.66
3:D:774:SER:HB3	3:D:1362:LYS:O	1.95	0.66
3:D:1403:LEU:O	3:D:1407:LEU:HB2	1.94	0.66
3:N:669:ASN:HD21	3:N:671:LYS:HB2	1.59	0.66
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.29	0.66
2:M:83:CYS:SG	2:M:90:TYR:HD2	2.18	0.66
3:N:520:LEU:O	3:N:525:ARG:NH1	2.29	0.66
3:N:1481:VAL:HG13	4:O:18:ARG:HD3	1.76	0.66
3:D:1101:VAL:HG21	3:D:1424:VAL:HG23	1.78	0.66
3:I:179:VAL:HG21	3:I:189:GLN:HE22	1.58	0.66
3:N:1311:LEU:N	3:N:1311:LEU:HD23	2.10	0.66
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.25	0.66
2:C:316:GLY:O	2:C:318:PRO:HD3	1.95	0.66
2:C:950:LEU:HD12	2:C:952:LEU:CD2	2.25	0.66
2:M:64:LEU:CD2	2:M:359:MET:HB2	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z:115:THR:CB	7:Z:116:PRO:HD3	2.26	0.66
4:E:54:LEU:HD23	4:E:58:PRO:CD	2.24	0.66
1:B:24:VAL:HG22	1:B:196:THR:CG2	2.26	0.66
3:I:970:LYS:CE	7:Y:113:LEU:HD23	2.25	0.66
3:I:1367:HIS:HA	3:I:1370:ILE:HD12	1.76	0.66
2:M:473:ARG:HD3	2:M:531:PHE:CE1	2.29	0.66
1:G:206:THR:HG22	1:G:209:GLU:H	1.58	0.66
3:I:1321:ALA:O	3:I:1339:LYS:HD2	1.95	0.66
2:M:997:LEU:C	2:M:999:HIS:H	1.99	0.66
3:I:705:ALA:CB	3:I:706:PRO:HD3	2.25	0.66
3:D:179:VAL:HG13	3:D:183:GLU:CD	2.15	0.66
3:I:119:SER:HB2	3:I:123:LEU:H	1.58	0.66
2:M:987:ILE:HD12	3:N:948:THR:HG23	1.78	0.66
1:K:206:THR:HG22	1:K:209:GLU:CG	2.25	0.66
2:H:188:LYS:O	2:H:188:LYS:CG	2.43	0.66
3:I:204:LEU:N	3:I:394:LEU:O	2.23	0.66
2:H:673:LEU:HD22	2:H:867:VAL:HG12	1.78	0.66
3:I:160:GLU:OE2	3:I:165:LYS:HD2	1.95	0.66
1:K:128:HIS:HE1	1:K:131:THR:HG23	1.59	0.66
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.78	0.66
2:H:657:ASP:OD1	2:H:663:ASN:N	2.28	0.66
1:F:156:HIS:HD2	1:F:157:GLY:N	1.92	0.66
2:H:950:LEU:HD12	2:H:952:LEU:CD2	2.25	0.66
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.76	0.66
3:N:412:GLY:HA2	3:N:434:ARG:HD3	1.77	0.66
2:M:374:ASN:HD22	2:M:374:ASN:N	1.93	0.66
2:C:997:LEU:C	2:C:999:HIS:H	1.98	0.66
3:N:546:ARG:HG2	3:N:546:ARG:HH11	1.60	0.66
2:C:726:ILE:HG13	2:C:734:LEU:HD11	1.78	0.66
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.76	0.66
3:N:1425:THR:O	3:N:1429:LEU:HD13	1.96	0.66
2:C:258:TYR:CD2	2:C:290:LEU:HD11	2.31	0.66
3:D:520:LEU:O	3:D:525:ARG:NH1	2.29	0.66
2:C:878:SER:HA	3:D:1034:GLN:HE22	1.60	0.66
4:E:36:LYS:HZ3	4:E:36:LYS:CA	2.08	0.66
3:I:1311:LEU:N	3:I:1311:LEU:HD23	2.11	0.66
7:X:133:ARG:HA	7:X:154:ILE:HD11	1.75	0.66
1:K:156:HIS:HD2	1:K:157:GLY:N	1.92	0.66
1:A:91:ASN:ND2	1:A:93:SER:HB2	2.10	0.66
3:N:890:VAL:HG11	3:N:922:LEU:CD1	2.25	0.66
2:H:850:ALA:HA	3:I:632:VAL:CG1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:191:PHE:HD2	2:C:195:LEU:HD23	1.61	0.66
2:C:196:LEU:O	2:C:199:VAL:HB	1.96	0.66
2:M:36:PRO:O	2:M:39:ARG:HB3	1.96	0.66
3:D:47:GLU:O	3:D:51:GLY:N	2.29	0.66
2:C:569:VAL:HG12	2:C:996:LYS:O	1.95	0.66
3:D:809:PRO:O	3:D:812:ALA:HB3	1.96	0.66
1:F:206:THR:HG22	1:F:209:GLU:CG	2.26	0.66
2:M:1094:ALA:HB1	3:N:603:LEU:CD1	2.25	0.66
3:I:1472:ILE:O	3:I:1477:GLY:HA3	1.96	0.66
2:C:36:PRO:CA	2:C:39:ARG:HG3	2.26	0.66
2:C:854:PRO:HB2	2:C:856:GLU:CG	2.24	0.66
7:Z:127:LYS:HD3	7:Z:127:LYS:C	2.16	0.66
2:H:137:VAL:HG23	2:H:391:LEU:CD2	2.25	0.66
3:I:470:LEU:HD23	3:I:470:LEU:H	1.61	0.66
3:D:1146:GLY:HA2	3:D:1207:TYR:CB	2.25	0.66
2:C:838:LYS:O	2:C:838:LYS:HG3	1.94	0.66
2:H:63:GLY:HA3	2:H:103:LYS:HE2	1.76	0.66
2:H:218:VAL:HG13	2:H:221:LEU:CD1	2.25	0.66
2:C:26:TYR:HE1	2:C:340:MET:HE2	1.60	0.66
2:M:564:MET:HE2	2:M:846:LYS:CD	2.21	0.66
3:D:452:ILE:N	3:D:452:ILE:HD13	2.10	0.66
3:N:658:LEU:O	3:N:661:MET:HB2	1.96	0.66
7:Y:90:GLU:C	7:Y:91:LEU:HD23	2.16	0.66
2:C:282:GLY:C	2:C:283:ILE:HD13	2.15	0.66
3:N:1491:THR:O	3:N:1494:ALA:HB3	1.95	0.66
2:C:512:ARG:CA	2:C:523:ILE:HD11	2.26	0.66
7:Z:54:GLU:O	7:Z:58:ILE:HG12	1.96	0.66
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.31	0.66
3:I:1425:THR:O	3:I:1429:LEU:HD13	1.96	0.66
3:D:154:THR:CG2	3:D:157:GLU:OE2	2.44	0.66
3:D:50:PHE:CG	3:D:522:PRO:CD	2.78	0.66
3:I:86:ARG:NH2	3:I:88:TYR:CE1	2.64	0.66
3:D:947:ILE:H	3:D:947:ILE:HD12	1.61	0.66
2:M:151:ASP:HB2	2:M:157:ARG:O	1.96	0.66
3:N:1434:TRP:NE1	3:N:1435:LEU:HD12	2.10	0.66
3:D:1223:ILE:HD11	3:D:1462:LEU:HD12	1.77	0.66
3:I:1272:ALA:HA	3:I:1326:THR:HB	1.77	0.66
3:D:639:LEU:CD1	3:D:766:ALA:HB2	2.21	0.66
2:M:861:LEU:CG	2:M:862:PRO:HD2	2.25	0.66
3:N:172:PRO:HD3	3:N:195:VAL:CG2	2.26	0.66
1:A:206:THR:HG22	1:A:209:GLU:CG	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.60	0.66
1:A:150:TYR:OH	2:C:695:LEU:HD22	1.96	0.66
2:H:428:ARG:NH1	2:H:449:ILE:O	2.29	0.66
2:M:554:ASP:OD2	2:M:556:ASN:HB3	1.96	0.66
3:I:159:ARG:O	3:I:164:GLY:O	2.13	0.66
2:M:174:LEU:CD2	2:M:193:LEU:HD21	2.25	0.66
3:D:1105:ILE:HB	3:D:1222:GLY:HA3	1.77	0.66
3:D:1367:HIS:HA	3:D:1370:ILE:HD12	1.76	0.66
3:I:658:LEU:O	3:I:661:MET:HB2	1.95	0.66
4:E:25:LYS:HA	4:E:28:GLN:CD	2.16	0.66
2:M:950:LEU:HD12	2:M:952:LEU:CD2	2.26	0.66
2:C:524:VAL:CG1	2:C:528:GLU:HB2	2.26	0.66
2:H:65:VAL:O	2:H:100:LEU:HD12	1.96	0.66
3:N:593:ASN:HB3	3:N:594:PRO:HD2	1.77	0.66
2:H:142:ARG:HE	2:H:325:ILE:HG13	1.59	0.66
2:H:554:ASP:OD2	2:H:556:ASN:HB3	1.95	0.66
3:I:783:ARG:HH12	7:Y:41:ASP:CB	1.90	0.66
3:D:686:GLU:HA	3:D:689:ASP:OD2	1.96	0.66
2:C:564:MET:HE2	2:C:846:LYS:HD2	1.78	0.66
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.76	0.66
3:D:139:GLY:CA	3:D:147:VAL:HG21	2.26	0.66
3:I:1211:MET:CG	3:I:1212:ALA:H	2.00	0.66
4:J:31:LEU:HD12	4:J:32:ARG:N	2.10	0.66
3:D:1123:PHE:CD2	3:D:1184:GLN:HG3	2.30	0.66
4:J:9:LEU:HB3	4:J:19:LEU:HD21	1.78	0.66
7:Z:57:ARG:NH2	7:Z:57:ARG:HB2	2.05	0.66
3:N:347:VAL:CG2	3:N:368:VAL:HG11	2.24	0.66
2:M:289:THR:O	2:M:291:ALA:N	2.28	0.66
2:M:1105:LYS:HZ1	2:M:1107:ASN:HB2	1.61	0.66
1:A:73:GLU:HB2	1:A:78:ILE:CD1	2.23	0.66
1:L:27:PRO:C	1:L:28:LEU:HD23	2.17	0.66
3:N:767:HIS:CE1	4:O:6:ILE:HG21	2.29	0.66
2:H:906:PHE:CE1	3:I:1067:VAL:HG13	2.31	0.66
2:M:497:ALA:HA	2:M:515:ALA:HA	1.77	0.66
2:H:524:VAL:CG1	2:H:528:GLU:HB2	2.26	0.66
7:Z:64:SER:O	7:Z:68:ILE:HG12	1.96	0.66
3:D:157:GLU:O	3:D:161:LEU:HD12	1.94	0.65
2:C:138:SER:HB2	2:C:410:ILE:HG12	1.78	0.65
3:I:162:ARG:HD2	3:I:452:ILE:CG2	2.20	0.65
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.79	0.65
2:C:681:GLY:C	3:D:635:PRO:HG3	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:GLU:HG3	3:N:821:VAL:HG11	1.78	0.65
2:H:338:GLU:O	2:H:341:THR:HG22	1.95	0.65
3:D:1459:LEU:HD21	3:D:1468:LEU:HD12	1.78	0.65
2:H:1020:PRO:HD2	3:I:622:ARG:HB2	1.77	0.65
2:M:142:ARG:HH11	2:M:142:ARG:HB3	1.61	0.65
2:H:129:ILE:CG1	2:H:386:PHE:HB3	2.27	0.65
1:F:91:ASN:ND2	1:F:93:SER:HB2	2.10	0.65
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.30	0.65
3:N:470:LEU:HD23	3:N:470:LEU:H	1.61	0.65
1:F:186:LEU:C	1:F:186:LEU:HD23	2.14	0.65
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.31	0.65
2:M:630:ARG:HD3	2:M:705:ILE:HB	1.78	0.65
2:H:224:GLU:CB	2:H:228:ALA:HB2	2.26	0.65
3:D:1261:GLU:OE1	3:D:1268:PRO:HA	1.96	0.65
2:H:564:MET:SD	2:H:846:LYS:HD2	2.36	0.65
2:C:508:ILE:HD12	2:C:526:PRO:HB3	1.77	0.65
2:C:374:ASN:O	2:C:377:PRO:HD2	1.96	0.65
2:M:657:ASP:OD1	2:M:663:ASN:N	2.29	0.65
2:M:1036:GLU:O	2:M:1039:ALA:HB3	1.95	0.65
1:K:91:ASN:ND2	1:K:93:SER:HB2	2.11	0.65
2:M:63:GLY:N	2:M:103:LYS:HG2	2.12	0.65
2:H:976:ASP:CB	2:H:979:THR:HG22	2.26	0.65
2:H:512:ARG:CA	2:H:523:ILE:HD11	2.26	0.65
3:I:1397:LYS:NZ	3:I:1432:LYS:NZ	2.45	0.65
3:N:402:PRO:HA	3:N:443:VAL:HG23	1.78	0.65
3:D:170:PRO:HD2	2:H:318:PRO:CB	2.24	0.65
3:I:50:PHE:CD2	3:I:522:PRO:HD2	2.30	0.65
3:I:50:PHE:HA	3:I:89:ARG:CB	2.26	0.65
2:M:36:PRO:CA	2:M:39:ARG:HB2	2.24	0.65
2:M:22:GLN:HB3	2:M:121:MET:HE1	1.78	0.65
3:N:180:LYS:HG2	3:N:183:GLU:OE1	1.96	0.65
3:I:1258:ARG:NH2	3:I:1262:LEU:HD11	2.10	0.65
2:H:141:HIS:HB3	2:H:418:LEU:HD23	1.76	0.65
3:D:153:LEU:HD11	3:D:158:TYR:HB2	1.76	0.65
3:D:1209:LEU:CD2	3:D:1211:MET:H	2.05	0.65
2:C:383:ARG:HH11	2:C:383:ARG:CB	2.03	0.65
3:D:969:ARG:HG3	3:D:970:LYS:H	1.62	0.65
1:B:27:PRO:C	1:B:28:LEU:HD23	2.17	0.65
3:I:1197:ARG:HB3	3:I:1396:GLU:CD	2.15	0.65
2:M:205:GLU:HA	2:M:209:ARG:CZ	2.26	0.65
3:N:17:LYS:HG2	3:N:21:TRP:NE1	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1090:LYS:CE	3:N:90:MET:SD	2.85	0.65
3:N:23:TYR:CD1	3:N:89:ARG:HG2	2.31	0.65
1:K:56:VAL:HG13	1:K:142:VAL:CG1	2.23	0.65
3:D:658:LEU:O	3:D:661:MET:HB2	1.95	0.65
1:A:9:PRO:HB3	1:A:25:LEU:HD11	1.78	0.65
1:B:124:ASN:N	1:B:125:PRO:HD3	2.12	0.65
2:C:554:ASP:OD2	2:C:556:ASN:HB3	1.96	0.65
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.77	0.65
2:H:723:THR:HG23	2:H:725:ASP:H	1.61	0.65
3:N:122:GLU:O	3:N:126:VAL:HG23	1.96	0.65
3:N:148:GLU:HG2	3:N:151:GLN:HB3	1.77	0.65
2:M:263:ASP:HB2	2:M:264:PRO:CD	2.19	0.65
2:C:31:GLN:NE2	2:C:71:TYR:OH	2.28	0.65
3:D:800:LYS:HG3	3:D:829:VAL:HG13	1.78	0.65
3:D:26:VAL:HG23	3:D:26:VAL:O	1.95	0.65
1:G:24:VAL:HG22	1:G:196:THR:CG2	2.26	0.65
2:C:52:PHE:HB3	2:C:53:PRO:HD3	1.78	0.65
3:I:6:ARG:HH21	3:I:1482:ARG:NH2	1.95	0.65
2:M:218:VAL:HG22	2:M:222:MET:HG3	1.78	0.65
2:M:343:GLN:HE21	2:M:343:GLN:HA	1.61	0.65
3:D:191:LEU:HD11	3:D:197:SER:OG	1.97	0.65
2:H:676:ILE:O	3:I:948:THR:CG2	2.44	0.65
2:C:196:LEU:O	2:C:200:LEU:HG	1.97	0.65
2:C:199:VAL:CG2	2:C:238:LEU:HD12	2.24	0.65
2:C:140:ILE:HG22	2:C:333:ILE:CD1	2.27	0.65
3:N:1029:ARG:NH1	3:N:1030:GLY:H	1.94	0.65
2:H:267:TYR:HE2	2:H:289:THR:HG23	1.60	0.65
3:D:1208:ASP:HB2	3:D:1366:LYS:HE3	1.78	0.65
3:I:177:ALA:CB	3:I:390:PRO:HG3	2.20	0.65
3:I:676:MET:SD	3:I:684:LYS:HE3	2.36	0.65
3:I:484:PRO:HB3	3:I:488:ARG:HE	1.62	0.65
1:L:24:VAL:HG22	1:L:196:THR:CG2	2.26	0.65
3:N:96:ALA:HB3	3:N:554:LEU:HD23	1.77	0.65
3:N:577:ALA:O	3:N:580:ALA:HB3	1.97	0.65
7:Y:93:ASP:OD1	7:Y:94:PRO:HD2	1.96	0.65
2:M:620:LEU:O	2:M:620:LEU:HD12	1.95	0.65
2:M:368:THR:CB	2:M:369:PRO:CD	2.75	0.65
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.32	0.65
2:H:1012:PRO:HD2	2:H:1026:GLN:CG	2.26	0.65
3:I:136:ASP:CB	3:I:137:PRO:HD3	2.20	0.65
3:I:817:GLU:HG3	3:I:839:LEU:HD23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.79	0.65
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.27	0.65
3:I:1066:THR:CG2	3:I:1069:GLU:HB2	2.26	0.65
2:H:571:LEU:HD11	2:H:701:THR:H	1.59	0.65
7:X:115:THR:CB	7:X:116:PRO:HD3	2.26	0.65
3:N:804:LEU:HB2	3:N:831:GLY:HA2	1.79	0.65
2:C:154:ARG:CZ	2:C:178:PRO:HD3	2.26	0.65
2:M:342:ASP:O	2:M:346:VAL:HG23	1.97	0.65
3:D:1168:MET:HE3	3:D:1171:VAL:HB	1.78	0.65
3:D:600:LEU:HD12	3:D:600:LEU:H	1.61	0.65
3:I:894:LYS:O	3:I:898:GLU:HG3	1.97	0.65
3:D:159:ARG:HH21	2:H:208:ALA:HB1	1.61	0.65
2:M:50:GLU:HG2	2:M:51:THR:HG23	1.78	0.65
2:C:1097:LEU:CD1	3:D:1451:ALA:HB1	2.26	0.65
3:I:1095:THR:OG1	3:I:1230:GLY:HA3	1.97	0.65
2:M:113:VAL:CG2	2:M:373:VAL:HG11	2.27	0.65
3:I:808:THR:OG1	3:I:809:PRO:HD3	1.97	0.65
1:A:218:LEU:CD2	1:B:222:LEU:HD21	2.24	0.65
2:M:957:LYS:CD	2:M:961:GLU:HB3	2.26	0.65
3:D:1066:THR:CG2	3:D:1069:GLU:HB2	2.26	0.65
2:C:52:PHE:O	2:C:54:ILE:N	2.30	0.65
1:B:206:THR:HG23	1:B:208:LEU:H	1.62	0.65
1:A:171:PHE:O	1:A:173:PRO:HD3	1.97	0.65
3:D:176:ASP:HB2	3:D:388:HIS:O	1.97	0.65
2:C:289:THR:O	2:C:291:ALA:N	2.27	0.65
2:M:987:ILE:HD11	3:N:946:GLY:HA2	1.79	0.65
2:M:22:GLN:HB3	2:M:121:MET:CE	2.27	0.65
2:C:564:MET:SD	2:C:846:LYS:HD2	2.37	0.65
2:C:878:SER:CB	3:D:1029:ARG:CZ	2.75	0.65
3:N:119:SER:HB2	3:N:123:LEU:CB	2.19	0.65
3:D:480:GLU:O	3:D:484:PRO:CG	2.44	0.65
3:D:1459:LEU:CD2	3:D:1468:LEU:HD12	2.27	0.65
1:B:185:ARG:CD	3:D:692:GLU:HG2	2.27	0.65
3:N:408:GLU:HB2	3:N:421:LEU:O	1.97	0.65
3:I:1223:ILE:HD11	3:I:1462:LEU:HD12	1.78	0.65
3:N:956:ILE:HD11	3:N:1062:ARG:CG	2.26	0.65
3:N:581:LEU:N	3:N:581:LEU:HD23	2.11	0.65
3:I:581:LEU:N	3:I:581:LEU:HD23	2.12	0.65
3:N:484:PRO:HB3	3:N:488:ARG:HE	1.62	0.65
3:I:680:GLN:O	3:I:683:ILE:CD1	2.44	0.65
1:G:44:LEU:HA	1:G:48:ILE:CD1	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1072:LYS:O	3:N:659:LYS:HE2	1.97	0.65
3:I:1435:LEU:HB2	3:I:1457:ASP:OD2	1.97	0.65
3:I:1097:LYS:O	3:I:1100:ASP:HB2	1.97	0.65
7:Y:127:LYS:HD3	7:Y:127:LYS:C	2.18	0.65
4:E:59:ASN:HB3	4:E:62:THR:OG1	1.96	0.65
3:D:166:GLN:NE2	3:D:394:LEU:HB2	2.10	0.65
3:D:354:VAL:HB	3:D:367:ILE:O	1.96	0.65
2:H:211:LEU:HG	2:H:218:VAL:CG2	2.26	0.65
2:C:26:TYR:HD2	2:C:121:MET:HB2	1.61	0.65
2:M:265:ARG:NH1	2:M:332:ARG:HH12	1.84	0.65
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.77	0.65
2:H:40:GLU:HG3	2:H:41:ASN:N	2.09	0.65
2:H:564:MET:CE	2:H:846:LYS:HD2	2.27	0.65
2:M:293:PHE:N	2:M:293:PHE:CD1	2.59	0.65
3:N:441:ARG:NH1	3:N:445:ARG:NH2	2.45	0.65
2:H:957:LYS:CD	2:H:961:GLU:HB3	2.26	0.65
2:H:18:LEU:H	2:H:18:LEU:CD1	2.10	0.65
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.26	0.65
3:N:826:PRO:O	3:N:829:VAL:HG23	1.97	0.65
4:O:24:ALA:O	4:O:27:ALA:N	2.30	0.65
3:I:102:ILE:O	3:I:102:ILE:HD13	1.97	0.65
3:I:206:ARG:HB3	3:I:207:PHE:CE1	2.31	0.65
3:I:577:ALA:O	3:I:580:ALA:HB3	1.97	0.65
2:M:714:ASP:OD1	2:M:719:PRO:HG3	1.97	0.65
3:N:50:PHE:HD2	3:N:522:PRO:HD3	0.84	0.64
2:C:265:ARG:HB3	2:C:267:TYR:CZ	2.31	0.64
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.27	0.64
3:I:148:GLU:HB3	3:I:151:GLN:HB2	1.78	0.64
2:M:109:LYS:CD	2:M:368:THR:HG23	2.24	0.64
3:D:23:TYR:CD1	3:D:89:ARG:HG2	2.32	0.64
3:N:139:GLY:O	3:N:162:ARG:NH2	2.31	0.64
1:L:185:ARG:HD3	3:N:692:GLU:OE2	1.97	0.64
2:H:50:GLU:HG2	2:H:51:THR:HG23	1.79	0.64
2:C:1090:LYS:HE3	3:D:90:MET:HG3	1.76	0.64
1:F:56:VAL:HG13	1:F:142:VAL:CG1	2.23	0.64
2:H:557:ARG:HG2	2:H:881:ASN:ND2	2.12	0.64
3:I:704:ARG:NH2	6:S:16:G:O2'	2.29	0.64
3:D:655:PRO:HA	3:D:658:LEU:HD12	1.79	0.64
3:I:655:PRO:HA	3:I:658:LEU:HD12	1.79	0.64
3:D:102:ILE:O	3:D:102:ILE:HD13	1.98	0.64
1:G:59:GLU:OE2	1:G:139:ASN:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:25:LEU:O	1:G:28:LEU:HD21	1.97	0.64
1:L:124:ASN:OD1	1:L:127:LEU:HB2	1.97	0.64
3:I:1025:GLN:CA	3:I:1025:GLN:HE21	2.06	0.64
3:N:860:LEU:HD22	3:N:878:GLY:HA2	1.79	0.64
2:H:836:GLY:HA3	2:H:1001:VAL:CG2	2.27	0.64
1:L:20:TYR:HD2	1:L:21:GLY:N	1.95	0.64
1:L:206:THR:HG23	1:L:208:LEU:H	1.62	0.64
3:D:894:LYS:O	3:D:898:GLU:HG3	1.97	0.64
1:F:150:TYR:CE2	1:F:152:PRO:HG3	2.31	0.64
2:H:204:GLN:NE2	2:H:228:ALA:HB1	2.13	0.64
2:H:317:VAL:HG12	2:H:317:VAL:O	1.95	0.64
2:M:50:GLU:HG2	2:M:51:THR:N	2.12	0.64
2:M:676:ILE:HG23	3:N:948:THR:HB	1.78	0.64
3:I:618:LEU:HD23	3:I:619:LEU:HD23	1.80	0.64
2:C:879:ARG:NE	7:X:42:ASP:CG	2.51	0.64
2:M:217:LEU:HB2	2:M:311:PHE:HE1	1.56	0.64
3:D:158:TYR:CD1	3:D:162:ARG:HG2	2.31	0.64
3:D:817:GLU:HG3	3:D:839:LEU:HD23	1.78	0.64
3:D:17:LYS:HG2	3:D:21:TRP:NE1	2.12	0.64
2:H:170:PRO:HD3	2:H:263:ASP:CG	2.17	0.64
2:C:861:LEU:HG	2:C:862:PRO:CD	2.26	0.64
3:N:376:GLU:O	3:N:378:ILE:HG13	1.97	0.64
3:D:826:PRO:O	3:D:829:VAL:HG23	1.97	0.64
2:M:976:ASP:CB	2:M:979:THR:HG22	2.26	0.64
3:D:1317:ASP:OD1	3:D:1318:TYR:N	2.30	0.64
3:D:187:LYS:HG3	3:D:198:ARG:O	1.97	0.64
3:D:368:VAL:HB	3:D:377:VAL:HG21	1.77	0.64
3:I:116:LEU:CD2	3:I:118:LEU:HG	2.18	0.64
1:G:76:VAL:CG2	3:I:872:ARG:HH12	2.10	0.64
1:G:42:ARG:CG	1:G:42:ARG:HH11	2.08	0.64
1:A:64:GLU:O	1:A:75:VAL:HB	1.97	0.64
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.79	0.64
3:I:1109:GLU:HG2	3:I:1201:CYS:CA	2.26	0.64
3:I:433:GLY:HA2	3:I:449:SER:H	1.61	0.64
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.79	0.64
3:N:1283:ILE:HD12	3:N:1315:ASP:CG	2.17	0.64
3:N:398:ALA:HB2	3:N:447:VAL:HA	1.80	0.64
2:M:512:ARG:CA	2:M:523:ILE:HD11	2.26	0.64
2:M:1017:THR:O	2:M:1018:GLN:HB2	1.97	0.64
3:N:53:ILE:O	3:N:53:ILE:HG13	1.96	0.64
2:H:191:PHE:CE2	2:H:192:PRO:O	2.49	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:86:ARG:O	3:I:87:ARG:CZ	2.45	0.64
2:M:911:GLU:OE1	3:N:951:ILE:HD13	1.93	0.64
2:C:564:MET:CE	2:C:846:LYS:CD	2.76	0.64
2:C:564:MET:CE	2:C:846:LYS:HE2	2.16	0.64
3:N:817:GLU:HG3	3:N:839:LEU:HD23	1.78	0.64
2:H:169:GLY:HA2	2:H:263:ASP:HB3	1.78	0.64
3:D:1122:LEU:HD13	3:D:1185:GLU:CA	2.27	0.64
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.79	0.64
1:G:27:PRO:C	1:G:28:LEU:HD23	2.17	0.64
3:D:95:LEU:HD23	3:D:551:ASN:OD1	1.98	0.64
3:D:625:TYR:HB3	3:D:749:VAL:HG23	1.80	0.64
3:N:800:LYS:HD2	3:N:804:LEU:HB3	1.78	0.64
7:X:6:LYS:HB3	7:X:75:LEU:HD11	1.79	0.64
2:C:101:ILE:HG23	2:C:108:ILE:CD1	2.27	0.64
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.26	0.64
1:G:58:ILE:HB	1:G:61:VAL:HB	1.78	0.64
2:M:73:LEU:HB2	2:M:93:PRO:O	1.98	0.64
2:H:1017:THR:O	2:H:1018:GLN:HB2	1.96	0.64
2:H:317:VAL:N	2:H:318:PRO:CD	2.60	0.64
2:H:678:PRO:CG	3:I:947:ILE:HD11	2.27	0.64
3:I:134:VAL:O	3:I:454:ALA:HB1	1.97	0.64
2:M:440:PRO:HB2	3:N:1074:SER:OG	1.97	0.64
2:H:6:PHE:CZ	2:H:917:LEU:HD11	2.33	0.64
2:H:171:TRP:HH2	2:H:417:GLY:O	1.78	0.64
4:J:27:ALA:HA	4:J:30:LEU:HD12	1.78	0.64
3:N:956:ILE:HD11	3:N:1062:ARG:HG3	1.78	0.64
2:H:1036:GLU:HG3	3:I:707:THR:OG1	1.97	0.64
3:D:1312:LEU:CD1	3:D:1327:ARG:HH21	2.10	0.64
1:L:152:PRO:HG2	3:N:857:ILE:HD11	1.79	0.64
3:I:780:LYS:NZ	7:Y:38:GLU:HB3	2.13	0.64
2:H:496:ILE:N	2:H:496:ILE:HD12	2.12	0.64
1:G:206:THR:HG23	1:G:208:LEU:H	1.62	0.64
4:J:38:THR:OG1	4:J:39:VAL:N	2.28	0.64
3:D:355:VAL:CG2	3:D:367:ILE:HG23	2.28	0.64
2:H:196:LEU:HD23	2:H:200:LEU:CD1	2.22	0.64
3:I:17:LYS:HG2	3:I:21:TRP:NE1	2.12	0.64
2:M:313:LEU:HD13	2:M:321:GLU:HG3	1.79	0.64
2:M:140:ILE:HD13	2:M:331:ARG:CZ	2.27	0.64
2:M:80:GLN:HG3	2:M:90:TYR:HE2	1.60	0.64
2:C:987:ILE:HD11	3:D:946:GLY:CA	2.28	0.64
2:M:317:VAL:HG13	2:M:320:HIS:CD2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:ILE:CD1	1:A:140:MET:HB3	2.23	0.64
2:M:862:PRO:HB3	2:M:929:ARG:HH22	1.63	0.64
3:N:1107:VAL:HG23	3:N:1219:GLU:O	1.98	0.64
1:B:20:TYR:HD2	1:B:21:GLY:N	1.95	0.64
3:N:102:ILE:HD13	3:N:102:ILE:O	1.98	0.64
3:I:660:LYS:HA	3:I:660:LYS:HZ1	1.61	0.64
2:H:329:GLY:HA3	2:H:489:THR:HG23	1.79	0.64
1:A:49:PRO:HB3	1:A:148:VAL:HG22	1.80	0.64
2:H:148:PHE:CE1	2:H:309:TYR:CD1	2.86	0.64
3:N:89:ARG:O	3:N:521:PRO:HG3	1.97	0.64
2:M:258:TYR:CE2	2:M:290:LEU:HD11	2.32	0.64
2:M:170:PRO:HD3	2:M:263:ASP:CB	2.11	0.64
2:M:257:VAL:HG12	2:M:263:ASP:OD2	1.98	0.64
3:I:785:ILE:CD1	3:I:785:ILE:H	2.01	0.64
3:D:638:LYS:HA	3:D:932:ASP:OD1	1.97	0.64
2:H:862:PRO:HB3	2:H:929:ARG:HH22	1.63	0.64
2:H:129:ILE:HD11	2:H:386:PHE:HD2	1.62	0.64
3:N:411:THR:HG23	3:N:436:GLU:HA	1.80	0.64
2:H:964:LYS:O	2:H:968:LEU:HG	1.97	0.64
1:G:20:TYR:HD2	1:G:21:GLY:N	1.95	0.64
2:C:498:GLN:HE21	2:C:498:GLN:HA	1.63	0.64
3:D:166:GLN:HG2	3:D:396:VAL:CG1	2.24	0.64
3:D:52:PRO:C	3:D:86:ARG:HD3	2.18	0.64
3:N:178:LEU:N	3:N:178:LEU:HD12	2.11	0.64
1:G:80:LEU:HG	3:I:844:ALA:CB	2.27	0.64
1:G:112:ARG:HG3	1:G:125:PRO:CA	2.28	0.64
2:M:565:GLN:HE21	2:M:842:ARG:CG	2.04	0.64
2:H:64:LEU:CB	2:H:359:MET:HG3	2.25	0.64
2:C:976:ASP:CB	2:C:979:THR:HG22	2.26	0.64
2:H:569:VAL:HG12	2:H:996:LYS:O	1.98	0.64
2:C:101:ILE:HA	2:C:108:ILE:HG12	1.80	0.64
3:I:1123:PHE:CE2	3:I:1184:GLN:HG3	2.33	0.64
1:F:171:PHE:O	1:F:173:PRO:HD3	1.97	0.64
3:D:166:GLN:CG	3:D:396:VAL:HG12	2.21	0.64
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.27	0.64
1:B:187:GLY:CA	3:D:685:ASP:HB3	2.21	0.64
2:M:100:LEU:C	2:M:108:ILE:HG23	2.18	0.64
2:M:144:PRO:HB3	2:M:164:PRO:HA	1.79	0.64
2:M:217:LEU:HD12	2:M:311:PHE:CB	2.27	0.64
3:N:161:LEU:HA	3:N:397:LYS:HZ2	1.63	0.64
3:N:191:LEU:O	3:N:192:ALA:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:80:LEU:CG	3:I:844:ALA:HA	2.27	0.64
2:C:697:ARG:HG3	2:C:699:PHE:CD1	2.32	0.64
3:I:111:LYS:HD3	3:I:1448:THR:HG22	1.79	0.64
1:L:74:ASP:CB	3:N:872:ARG:NH2	2.54	0.64
3:N:638:LYS:HA	3:N:932:ASP:OD1	1.97	0.64
3:I:1107:VAL:HG12	3:I:1217:ILE:HA	1.80	0.64
2:C:957:LYS:CD	2:C:961:GLU:HB3	2.26	0.64
3:D:554:LEU:O	3:D:558:LEU:HG	1.98	0.64
1:F:49:PRO:HB3	1:F:148:VAL:HG22	1.80	0.64
2:M:500:ASN:OD1	3:N:1067:VAL:HG23	1.98	0.64
3:D:367:ILE:HB	3:D:377:VAL:CG1	2.28	0.64
2:C:224:GLU:HB3	2:C:228:ALA:N	2.13	0.64
2:M:1093:GLN:OE1	3:N:21:TRP:CE3	2.51	0.64
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.80	0.64
2:H:342:ASP:O	2:H:346:VAL:HG23	1.98	0.64
2:M:184:MET:SD	2:M:303:PHE:CE2	2.88	0.64
2:M:1004:LYS:CD	3:N:744:GLN:NE2	2.57	0.64
3:I:1216:SER:HB3	4:J:15:SER:OG	1.98	0.64
3:N:358:GLY:HA2	3:N:385:VAL:O	1.98	0.64
2:M:325:ILE:CD1	2:M:325:ILE:H	2.08	0.64
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.78	0.64
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.80	0.64
3:I:826:PRO:O	3:I:829:VAL:HG23	1.97	0.64
3:D:1146:GLY:HA3	3:D:1207:TYR:HB3	1.80	0.64
7:Y:19:LEU:HD21	7:Y:23:ARG:HH21	1.62	0.64
2:C:964:LYS:O	2:C:968:LEU:HG	1.97	0.64
2:M:964:LYS:O	2:M:968:LEU:HG	1.97	0.64
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.80	0.64
2:M:216:GLU:OE2	2:M:219:GLN:NE2	2.31	0.64
1:K:171:PHE:O	1:K:173:PRO:HD3	1.97	0.64
7:Y:88:VAL:HG13	7:Y:103:GLN:HB2	1.79	0.64
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.79	0.64
3:N:50:PHE:CE2	3:N:522:PRO:CG	2.81	0.63
3:N:169:TYR:CZ	3:N:198:ARG:HG3	2.32	0.63
3:I:115:LEU:HD23	3:I:115:LEU:C	2.18	0.63
4:E:35:PHE:C	4:E:36:LYS:HZ3	2.00	0.63
3:N:1099:VAL:O	3:N:1103:HIS:HB3	1.98	0.63
3:N:711:LEU:HD12	3:N:778:LEU:HD23	1.79	0.63
2:M:583:LEU:O	2:M:587:VAL:HG23	1.99	0.63
3:N:1114:THR:HG21	3:N:1195:GLN:HB3	1.79	0.63
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1317:ASP:OD1	3:I:1318:TYR:N	2.31	0.63
2:M:343:GLN:O	2:M:346:VAL:HB	1.98	0.63
7:Z:55:LYS:O	7:Z:59:GLU:HG3	1.98	0.63
3:N:1317:ASP:OD1	3:N:1318:TYR:N	2.30	0.63
2:C:224:GLU:HA	2:C:224:GLU:OE1	1.98	0.63
3:I:127:LEU:C	3:I:127:LEU:HD12	2.18	0.63
2:H:122:THR:HG22	2:H:124:ASP:H	1.63	0.63
2:M:122:THR:HG22	2:M:124:ASP:H	1.63	0.63
2:M:284:ARG:HG2	2:M:285:LEU:H	1.62	0.63
1:K:42:ARG:NH1	1:L:34:VAL:CB	2.54	0.63
3:I:1161:GLU:CG	3:I:1164:ARG:HB2	2.28	0.63
2:C:276:LYS:O	2:C:280:LYS:HB2	1.98	0.63
2:H:571:LEU:HD21	2:H:700:TYR:HA	1.80	0.63
2:M:503:LEU:HD23	2:M:507:ARG:C	2.18	0.63
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.79	0.63
3:I:860:LEU:HD22	3:I:878:GLY:HA2	1.79	0.63
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.81	0.63
2:C:1030:GLN:HE21	3:D:628:ARG:HD3	1.63	0.63
7:Y:139:SER:HB3	7:Y:148:GLU:CD	2.18	0.63
3:N:894:LYS:O	3:N:898:GLU:HG3	1.97	0.63
3:D:142:LEU:HB3	3:D:145:VAL:C	2.18	0.63
3:I:50:PHE:CE2	3:I:522:PRO:HD2	2.33	0.63
3:I:50:PHE:O	3:I:89:ARG:CB	2.45	0.63
2:C:1092:LEU:O	2:C:1097:LEU:O	2.16	0.63
3:N:1465:ASN:HD21	3:N:1470:ARG:NH2	1.96	0.63
2:M:1112:PHE:O	2:M:1112:PHE:CD2	2.51	0.63
3:I:650:LEU:HD13	3:I:688:TRP:CZ3	2.32	0.63
2:C:113:VAL:HG21	2:C:373:VAL:HG21	1.80	0.63
4:J:25:LYS:CA	4:J:28:GLN:HG3	2.27	0.63
2:C:80:GLN:HA	2:C:90:TYR:HD2	1.63	0.63
3:I:991:GLN:NE2	7:Y:112:VAL:HG21	2.13	0.63
3:N:1312:LEU:CD1	3:N:1327:ARG:HH21	2.10	0.63
2:C:862:PRO:HB3	2:C:929:ARG:HH22	1.62	0.63
3:N:115:LEU:C	3:N:115:LEU:HD23	2.19	0.63
3:I:414:ARG:HB3	3:I:450:TYR:HE1	1.63	0.63
3:I:969:ARG:HG3	3:I:970:LYS:H	1.62	0.63
4:O:64:ALA:O	4:O:68:LEU:HD13	1.98	0.63
2:H:512:ARG:CG	2:H:523:ILE:HD11	2.28	0.63
2:M:73:LEU:HD12	2:M:73:LEU:C	2.19	0.63
2:C:717:LEU:HB3	2:C:761:PHE:CG	2.33	0.63
2:C:1015:LEU:N	2:C:1015:LEU:HD12	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:589:ARG:HG3	2:H:596:TYR:CE2	2.33	0.63
2:C:794:PRO:HG2	2:C:1025:ALA:O	1.98	0.63
3:I:1231:GLU:HB3	3:I:1232:PRO:HD3	1.78	0.63
2:H:182:VAL:O	2:H:193:LEU:CD1	2.47	0.63
2:H:211:LEU:HD11	2:H:311:PHE:CD1	2.34	0.63
3:D:133:ILE:CG2	3:D:134:VAL:N	2.61	0.63
3:D:51:GLY:C	3:D:86:ARG:CD	2.67	0.63
3:N:86:ARG:NE	3:N:523:ASP:CG	2.51	0.63
2:C:876:VAL:O	2:C:879:ARG:O	2.17	0.63
2:H:464:LEU:HG	2:H:464:LEU:O	1.99	0.63
2:C:115:LEU:HA	2:C:375:SER:HG	1.63	0.63
3:I:179:VAL:HG13	3:I:183:GLU:HB3	1.79	0.63
3:N:1083:ASP:O	3:N:1087:ARG:HB3	1.99	0.63
3:D:881:LEU:CD1	3:D:885:ILE:HD11	2.29	0.63
3:I:711:LEU:HD12	3:I:778:LEU:HD23	1.79	0.63
3:D:115:LEU:C	3:D:115:LEU:HD23	2.19	0.63
1:B:25:LEU:O	1:B:28:LEU:HD21	1.98	0.63
1:G:86:VAL:HG12	1:G:124:ASN:HD22	1.63	0.63
2:C:512:ARG:CG	2:C:523:ILE:HD11	2.29	0.63
2:H:1043:TYR:CE1	3:I:710:ARG:O	2.52	0.63
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.32	0.63
3:D:677:LEU:CD2	3:D:683:ILE:HD13	2.28	0.63
3:N:133:ILE:HG22	3:N:134:VAL:N	2.12	0.63
2:H:1092:LEU:O	2:H:1097:LEU:O	2.16	0.63
3:D:1148:VAL:HG13	3:D:1163:GLY:O	1.99	0.63
4:J:26:ARG:HH11	4:J:73:LEU:HD21	1.63	0.63
3:I:40:GLU:CA	3:I:40:GLU:OE1	2.42	0.63
1:F:58:ILE:CD1	1:F:140:MET:HB3	2.23	0.63
3:N:211:VAL:HG12	3:N:213:VAL:HG23	1.79	0.63
1:A:11:PHE:HE1	1:A:23:PHE:HB3	1.63	0.63
3:N:171:LEU:HD23	3:N:172:PRO:N	2.14	0.63
3:N:1286:THR:HG22	3:N:1287:GLU:H	1.63	0.63
2:C:897:LEU:HD21	2:C:921:ALA:HA	1.81	0.63
3:I:800:LYS:CE	3:I:804:LEU:HD22	2.28	0.63
3:D:189:GLN:O	3:D:196:VAL:HG13	1.99	0.63
3:D:1078:ARG:CG	3:D:1078:ARG:HH11	2.12	0.63
3:I:794:GLN:HG2	3:I:1017:PHE:HE2	1.62	0.63
2:H:512:ARG:HD3	2:H:523:ILE:HG13	1.80	0.63
6:Q:12:G:H2'	6:Q:13:G:H8	1.62	0.63
3:I:1397:LYS:HZ1	3:I:1432:LYS:HZ2	1.47	0.63
3:D:1421:LEU:O	3:D:1421:LEU:HG	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1493:LYS:O	3:I:1497:GLU:HG2	1.97	0.63
2:M:266:ARG:NH1	2:M:288:ARG:NH2	2.47	0.63
2:H:182:VAL:HG12	2:H:193:LEU:CG	2.27	0.63
3:I:127:LEU:HD22	3:I:134:VAL:HG13	1.81	0.63
3:I:141:ILE:HG13	3:I:448:GLU:HG3	1.79	0.63
2:M:850:ALA:HA	3:N:632:VAL:HG13	1.80	0.63
3:I:12:LEU:HD21	3:I:104:PHE:CZ	2.30	0.63
3:N:456:MET:HE1	3:N:568:ARG:NH2	2.14	0.63
3:I:1262:LEU:HB3	3:I:1352:ILE:HD11	1.81	0.63
3:I:465:LEU:HD11	3:I:509:PRO:O	1.99	0.63
3:I:407:VAL:HG22	3:I:408:GLU:N	2.09	0.63
3:D:158:TYR:CD1	3:D:162:ARG:HB2	2.33	0.63
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.81	0.63
3:I:41:ARG:HD2	3:I:41:ARG:O	1.97	0.63
1:F:123:MET:O	1:F:125:PRO:HD3	1.99	0.63
2:C:1086:ARG:CD	3:D:88:TYR:CE1	2.78	0.63
2:M:861:LEU:HG	2:M:862:PRO:CD	2.26	0.63
2:H:861:LEU:CG	2:H:862:PRO:HD2	2.25	0.63
2:M:794:PRO:HG2	2:M:1025:ALA:O	1.98	0.63
3:N:1288:GLU:O	3:N:1307:LYS:HG2	1.99	0.63
2:M:498:GLN:OE1	3:N:1068:LEU:CD1	2.47	0.63
3:I:796:ARG:HD3	3:I:1017:PHE:CE1	2.33	0.63
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.29	0.63
2:C:361:MET:CE	3:I:1317:ASP:HB2	2.28	0.63
3:I:1397:LYS:HZ3	3:I:1432:LYS:HZ3	1.46	0.63
3:D:646:LYS:HG3	3:D:647:ARG:H	1.64	0.63
2:C:1088:LEU:HD21	3:D:614:PHE:CE1	2.33	0.63
2:M:195:LEU:HD21	2:M:238:LEU:HG	1.79	0.63
3:N:13:ALA:HB1	3:N:18:ILE:HD11	1.81	0.63
2:H:258:TYR:CE2	2:H:290:LEU:HD21	2.34	0.63
3:I:1312:LEU:CD1	3:I:1327:ARG:HH21	2.10	0.63
2:M:408:ARG:NH2	2:M:455:LEU:HD11	2.13	0.63
2:C:21:ILE:HD12	2:C:21:ILE:N	2.07	0.63
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.99	0.63
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.81	0.63
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	2.11	0.63
3:I:1421:LEU:HG	3:I:1421:LEU:O	1.98	0.63
3:N:1094:LEU:HG	3:N:1098:LEU:HD22	1.81	0.63
3:D:660:LYS:HA	3:D:660:LYS:HZ1	1.62	0.63
3:D:168:THR:CG2	3:D:169:TYR:N	2.62	0.63
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1092:LEU:O	2:M:1097:LEU:O	2.16	0.63
3:N:501:ALA:HB1	3:N:1452:ILE:HG22	1.79	0.63
3:I:1078:ARG:HH11	3:I:1078:ARG:CG	2.12	0.63
1:A:42:ARG:HH12	1:B:34:VAL:HG11	1.64	0.63
3:D:736:PHE:O	3:D:738:ALA:N	2.32	0.63
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.79	0.63
2:H:571:LEU:HD11	2:H:700:TYR:HA	1.81	0.63
3:I:984:THR:HG22	3:I:987:GLU:HG3	1.80	0.63
3:N:881:LEU:CD1	3:N:885:ILE:HD11	2.29	0.63
2:C:409:ARG:HA	2:C:454:SER:HA	1.81	0.63
1:G:132:LEU:HD11	1:G:138:LEU:HD13	1.81	0.63
2:C:512:ARG:HD3	2:C:523:ILE:HG13	1.80	0.63
3:I:1434:TRP:CZ3	3:I:1457:ASP:HB2	2.34	0.63
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.80	0.63
1:L:94:LEU:HD11	1:L:119:ASP:HB2	1.79	0.63
3:I:646:LYS:HG3	3:I:647:ARG:H	1.64	0.63
3:I:678:GLU:HG3	3:I:679:ARG:HG3	1.81	0.63
3:D:163:TYR:O	2:H:209:ARG:CZ	2.47	0.63
3:I:620:GLY:O	3:I:621:LYS:NZ	2.30	0.63
2:C:1092:LEU:CD1	2:C:1099:VAL:HG21	2.14	0.63
3:D:520:LEU:HD11	3:D:524:LEU:HD22	1.81	0.63
4:J:47:LYS:HA	4:J:54:LEU:HB3	1.81	0.63
3:I:1209:LEU:HD11	4:J:16:LYS:HD2	1.79	0.63
2:C:1035:MET:HB3	2:C:1036:GLU:OE1	1.99	0.63
2:H:840:ALA:HB2	2:H:846:LYS:HA	1.80	0.63
3:D:1109:GLU:CG	3:D:1201:CYS:HB2	2.29	0.63
3:D:1286:THR:O	3:D:1287:GLU:HB2	1.99	0.63
1:A:158:ILE:HD12	1:A:158:ILE:H	1.64	0.63
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.79	0.63
3:I:414:ARG:HB3	3:I:450:TYR:CE1	2.34	0.63
3:N:11:ALA:HB1	3:N:507:ASN:HD22	1.64	0.63
2:C:48:PHE:O	2:C:52:PHE:HB2	1.99	0.63
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.28	0.63
3:D:1495:ILE:CD1	4:E:88:GLU:HG3	2.29	0.63
7:X:17:GLN:O	7:X:21:ARG:HD3	1.98	0.63
2:M:876:VAL:O	2:M:879:ARG:O	2.17	0.62
3:D:123:LEU:HD21	3:D:151:GLN:NE2	2.14	0.62
3:N:179:VAL:HA	3:N:183:GLU:OE2	1.99	0.62
2:M:666:LEU:HD12	2:M:667:ALA:N	2.13	0.62
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.33	0.62
2:H:666:LEU:HD12	2:H:667:ALA:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1105:ILE:HD12	3:N:1105:ILE:N	2.14	0.62
3:N:1256:LEU:C	3:N:1260:ILE:HG13	2.18	0.62
2:M:199:VAL:HG11	2:M:235:LEU:HG	1.79	0.62
2:C:861:LEU:CG	2:C:862:PRO:HD2	2.25	0.62
2:M:260:LEU:HD23	2:M:260:LEU:C	2.18	0.62
1:L:25:LEU:O	1:L:28:LEU:HD21	1.98	0.62
1:B:26:GLU:HB2	1:B:27:PRO:HA	1.81	0.62
2:H:474:VAL:HG23	2:H:478:VAL:C	2.19	0.62
2:H:154:ARG:NH1	2:H:178:PRO:HD2	2.13	0.62
2:M:730:SER:O	2:M:734:LEU:HD13	1.99	0.62
2:H:316:GLY:C	2:H:318:PRO:CD	2.68	0.62
3:I:600:LEU:HD12	3:I:600:LEU:H	1.64	0.62
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.33	0.62
3:D:51:GLY:C	3:D:86:ARG:NE	2.52	0.62
2:H:1058:ASP:OD2	2:H:1083:GLU:HB2	1.98	0.62
1:L:79:ILE:HD12	1:L:167:VAL:HG13	1.81	0.62
3:I:789:LEU:HD13	3:I:911:LEU:HD21	1.81	0.62
3:D:800:LYS:HZ2	3:D:804:LEU:HD22	1.64	0.62
1:F:46:SER:HB3	2:H:856:GLU:HG2	1.80	0.62
3:N:1462:LEU:O	3:N:1466:VAL:HG23	1.98	0.62
3:D:93:ILE:HD13	3:D:547:LEU:HD23	1.81	0.62
2:H:1032:PHE:O	2:H:1033:GLY:O	2.16	0.62
3:N:1330:ILE:N	3:N:1330:ILE:HD12	2.14	0.62
3:D:789:LEU:HD13	3:D:911:LEU:HD21	1.81	0.62
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	1.99	0.62
2:H:516:ARG:HE	3:I:1068:LEU:HD13	1.62	0.62
3:N:1033:GLN:NE2	7:Z:54:GLU:OE2	2.32	0.62
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.80	0.62
2:H:159:ILE:O	2:H:159:ILE:HD12	1.99	0.62
1:K:31:GLY:N	1:K:193:ASP:OD1	2.26	0.62
3:D:1487:VAL:HG11	3:D:1492:LEU:HD23	1.81	0.62
2:C:253:ALA:O	2:C:257:VAL:HG23	1.99	0.62
3:N:1041:LEU:HD12	3:N:1058:ARG:O	1.99	0.62
2:H:1086:ARG:NE	3:I:88:TYR:HE2	1.97	0.62
2:M:127:PHE:CD1	2:M:136:ILE:HD13	2.34	0.62
2:C:676:ILE:O	2:C:676:ILE:HG23	2.00	0.62
2:C:557:ARG:HG2	2:C:881:ASN:ND2	2.13	0.62
3:D:1359:GLN:O	7:X:37:MET:SD	2.56	0.62
2:H:408:ARG:NH2	2:H:455:LEU:HD11	2.12	0.62
3:D:547:LEU:CD1	3:D:578:VAL:HG22	2.29	0.62
3:N:465:LEU:HD11	3:N:509:PRO:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:391:LEU:O	2:M:391:LEU:HD23	1.99	0.62
7:Y:155:HIS:O	7:Y:156:GLY:C	2.38	0.62
1:B:101:LEU:C	1:B:101:LEU:HD23	2.20	0.62
3:N:1421:LEU:O	3:N:1421:LEU:HG	1.98	0.62
3:D:561:GLY:O	3:D:563:PRO:HD2	2.00	0.62
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.80	0.62
3:I:152:LEU:N	3:I:152:LEU:HD23	2.15	0.62
3:D:50:PHE:CD1	3:D:522:PRO:HG2	2.34	0.62
3:I:618:LEU:HD13	3:I:1463:LYS:HE2	1.80	0.62
1:K:123:MET:O	1:K:125:PRO:HD3	1.99	0.62
2:C:73:LEU:C	2:C:73:LEU:HD12	2.19	0.62
2:C:939:ARG:CA	2:C:939:ARG:HE	2.06	0.62
2:C:503:LEU:HD23	2:C:507:ARG:O	1.99	0.62
3:I:1114:THR:O	3:I:1114:THR:HG23	1.99	0.62
2:C:1005:MET:SD	3:D:724:GLN:OE1	2.57	0.62
3:N:171:LEU:HA	3:N:195:VAL:HG21	1.80	0.62
3:N:868:TYR:CE1	3:N:869:MET:HG3	2.34	0.62
3:D:868:TYR:CE1	3:D:869:MET:HG3	2.34	0.62
3:D:152:LEU:CD2	3:D:152:LEU:H	2.13	0.62
2:M:1046:ALA:HB2	3:N:1476:THR:CB	2.29	0.62
2:C:101:ILE:HD13	2:C:108:ILE:HG23	1.81	0.62
5:R:17:DG:H2'	5:R:18:DC:C6	2.34	0.62
1:F:102:LYS:HD3	1:F:139:ASN:HD21	1.64	0.62
2:M:512:ARG:HD3	2:M:523:ILE:HG13	1.80	0.62
3:D:1495:ILE:HD13	4:E:88:GLU:HG3	1.80	0.62
3:D:767:HIS:HA	3:D:924:MET:SD	2.39	0.62
3:D:210:ARG:HB3	3:D:389:GLU:HG3	1.81	0.62
2:C:217:LEU:O	2:C:219:GLN:N	2.31	0.62
2:H:660:ALA:O	2:H:667:ALA:HB3	2.00	0.62
3:D:1366:LYS:O	3:D:1369:GLU:HB2	1.99	0.62
4:E:35:PHE:C	4:E:36:LYS:HE2	2.19	0.62
3:I:202:VAL:HG11	3:I:445:ARG:HH21	1.64	0.62
3:N:650:LEU:HD13	3:N:688:TRP:CZ3	2.31	0.62
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.80	0.62
2:M:516:ARG:HG3	3:N:1068:LEU:CD1	2.30	0.62
1:L:12:THR:OG1	1:L:24:VAL:HB	1.99	0.62
3:N:1252:ILE:HG13	3:N:1253:THR:H	1.64	0.62
3:I:1041:LEU:HD12	3:I:1058:ARG:O	1.99	0.62
4:J:51:LEU:HG	4:J:53:GLY:H	1.62	0.62
1:L:101:LEU:HD23	1:L:101:LEU:C	2.20	0.62
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:683:ASN:HB2	2:M:872:ASN:HB2	1.81	0.62
3:D:116:LEU:O	3:D:117:ASP:CB	2.47	0.62
3:I:111:LYS:HD3	3:I:1448:THR:CG2	2.29	0.62
3:D:1330:ILE:HD12	3:D:1330:ILE:N	2.15	0.62
3:I:1047:LYS:HB3	3:I:1048:PRO:HD2	1.80	0.62
2:H:263:ASP:HB2	2:H:264:PRO:HD3	1.81	0.62
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.29	0.62
1:K:42:ARG:HH12	1:L:34:VAL:CG1	2.12	0.62
1:L:34:VAL:HG11	2:M:978:ARG:HB3	1.82	0.62
3:N:736:PHE:O	3:N:738:ALA:N	2.32	0.62
1:K:64:GLU:OE1	2:M:830:LYS:HE2	2.00	0.62
2:H:794:PRO:CD	2:H:1024:LYS:O	2.47	0.62
2:C:497:ALA:HA	2:C:515:ALA:HA	1.82	0.62
3:D:108:VAL:HB	3:D:109:PRO:CD	2.29	0.62
3:D:465:LEU:HD11	3:D:509:PRO:O	1.99	0.62
3:I:838:ARG:HB3	3:I:865:THR:CG2	2.30	0.62
3:D:54:LYS:CD	3:D:55:ASP:H	2.12	0.62
3:I:1487:VAL:HG12	3:I:1488:ASP:N	2.14	0.62
1:B:102:LYS:HB2	1:B:139:ASN:OD1	1.99	0.62
2:C:212:GLY:C	2:C:214:TYR:H	2.01	0.62
3:I:133:ILE:HD12	3:I:158:TYR:CD2	2.34	0.62
3:I:142:LEU:HD23	3:I:146:PRO:CA	2.28	0.62
3:N:783:ARG:NE	7:Z:41:ASP:OD2	2.31	0.62
2:M:432:ARG:HH12	3:N:1047:LYS:HG2	1.65	0.62
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.80	0.62
3:N:205:TYR:HD1	3:N:390:PRO:CB	2.13	0.62
2:M:660:ALA:CB	2:M:667:ALA:O	2.37	0.62
3:D:1262:LEU:HB3	3:D:1352:ILE:HD11	1.81	0.62
3:D:1145:TYR:O	3:D:1147:ARG:HG2	2.00	0.62
2:H:22:GLN:HB3	2:H:121:MET:HE1	1.81	0.62
3:D:408:GLU:HG3	3:D:409:VAL:H	1.64	0.62
3:D:1114:THR:O	3:D:1114:THR:HG23	2.00	0.62
3:D:1114:THR:HG22	3:D:1195:GLN:HB3	1.81	0.62
2:C:216:GLU:HG3	2:C:216:GLU:O	2.00	0.62
2:M:1038:TRP:HA	2:M:1041:GLU:HG3	1.82	0.62
2:C:124:ASP:HB2	2:C:407:LYS:NZ	2.15	0.62
3:I:1330:ILE:N	3:I:1330:ILE:HD12	2.14	0.62
1:G:226:SER:O	1:G:228:PRO:HD3	1.99	0.62
1:A:31:GLY:H	1:A:193:ASP:CG	2.02	0.62
7:X:99:ARG:HG3	7:X:99:ARG:HH11	1.63	0.62
1:B:115:LEU:O	1:B:115:LEU:HD12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:141:ILE:CG1	3:N:448:GLU:CD	2.66	0.62
3:N:456:MET:SD	3:N:568:ARG:NE	2.73	0.62
2:H:140:ILE:CD1	2:H:412:ALA:HA	2.28	0.62
3:D:1372:VAL:HA	3:D:1375:MET:HE2	1.82	0.62
1:B:185:ARG:CZ	3:D:692:GLU:CG	2.72	0.62
3:I:202:VAL:HG11	3:I:445:ARG:NE	2.14	0.62
2:M:1012:PRO:HD2	2:M:1026:GLN:HB2	1.82	0.62
2:C:479:VAL:HG22	2:C:506:ASN:HA	1.81	0.62
2:M:600:ASP:OD1	2:M:650:ARG:HA	2.00	0.62
1:B:54:THR:HG22	1:B:156:HIS:CE1	2.34	0.62
3:I:881:LEU:CD1	3:I:885:ILE:HD11	2.29	0.62
2:M:536:PRO:HB3	2:M:906:PHE:HD1	1.65	0.62
3:D:406:ASP:O	3:D:422:ALA:HB1	1.99	0.62
2:M:759:THR:HB	2:M:785:VAL:CG2	2.29	0.62
2:M:693:GLU:OE1	2:M:696:LYS:HD2	2.00	0.62
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.34	0.62
2:H:447:ALA:O	2:H:448:ASN:HB2	2.00	0.62
2:M:111:ASP:HB3	2:M:369:PRO:HG3	1.80	0.62
2:M:680:ASP:O	3:N:939:PHE:HB3	2.00	0.62
3:N:131:LYS:O	3:N:133:ILE:N	2.32	0.62
1:G:134:GLU:HG3	3:N:821:VAL:HG12	1.82	0.62
3:D:758:GLU:HA	4:E:20:THR:CG2	2.29	0.62
2:M:284:ARG:HG2	2:M:285:LEU:N	2.15	0.62
2:C:508:ILE:CD1	2:C:526:PRO:HB3	2.30	0.62
3:I:754:PHE:HZ	4:J:21:VAL:HG13	1.65	0.62
3:D:1112:CYS:HB2	3:D:1195:GLN:CG	2.24	0.62
1:A:123:MET:O	1:A:125:PRO:HD3	1.99	0.62
2:H:242:LEU:O	2:H:243:ARG:CB	2.46	0.62
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.30	0.62
3:D:482:LYS:HE2	3:D:1388:ARG:HH22	1.64	0.62
3:I:642:CYS:HB3	3:I:716:PHE:CB	2.29	0.62
1:B:12:THR:OG1	1:B:24:VAL:HB	1.99	0.62
2:M:154:ARG:NH1	2:M:178:PRO:CD	2.62	0.62
2:H:327:HIS:CE1	2:H:489:THR:HA	2.35	0.62
3:N:646:LYS:HG3	3:N:647:ARG:H	1.64	0.62
3:I:171:LEU:HB2	3:I:391:ALA:O	2.00	0.62
3:I:546:ARG:HH12	3:I:550:ARG:NH2	1.97	0.62
7:Z:155:HIS:O	7:Z:156:GLY:C	2.38	0.62
3:N:1155:VAL:HG12	3:N:1177:ALA:HB1	1.82	0.62
2:M:56:GLU:CD	2:M:56:GLU:C	2.59	0.62
1:G:73:GLU:HG3	1:G:130:ALA:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:703:ILE:N	2:H:703:ILE:HD12	2.14	0.62
3:I:204:LEU:CB	3:I:394:LEU:HG	2.21	0.62
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.35	0.62
2:H:293:PHE:N	2:H:293:PHE:CD1	2.65	0.62
3:I:555:LYS:HA	3:I:558:LEU:CD1	2.29	0.62
3:N:171:LEU:HD23	3:N:172:PRO:O	1.99	0.62
2:M:1046:ALA:CB	3:N:1476:THR:OG1	2.47	0.62
3:N:1156:LEU:HD13	3:N:1176:LYS:HE3	1.81	0.62
2:M:261:ILE:N	2:M:261:ILE:HD12	2.14	0.62
2:M:443:THR:HG21	3:N:1078:ARG:HD2	1.82	0.62
3:I:1007:VAL:HG11	3:I:1039:CYS:HB2	1.81	0.62
3:N:102:ILE:HD12	3:N:586:ARG:HG3	1.81	0.62
3:N:39:PRO:HG2	3:N:47:GLU:OE2	2.00	0.62
7:Z:84:GLY:HA2	7:Z:130:LEU:HD12	1.80	0.62
2:C:307:LEU:HD11	2:C:311:PHE:CE2	2.34	0.61
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.82	0.61
3:I:457:GLY:O	3:I:459:GLU:N	2.33	0.61
3:D:1433:SER:OG	3:D:1457:ASP:OD2	2.18	0.61
3:D:47:GLU:O	3:D:51:GLY:CA	2.48	0.61
2:M:1061:GLU:HB2	3:N:84:ILE:HD13	1.80	0.61
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.81	0.61
2:H:443:THR:HG21	3:I:1078:ARG:NE	2.15	0.61
3:I:736:PHE:O	3:I:738:ALA:N	2.32	0.61
2:M:794:PRO:CG	2:M:1025:ALA:HA	2.29	0.61
7:Y:89:VAL:HG12	7:Y:91:LEU:CD2	2.29	0.61
1:A:156:HIS:CD2	1:A:157:GLY:N	2.66	0.61
3:N:398:ALA:HB2	3:N:447:VAL:HG12	1.80	0.61
3:N:841:TYR:HB2	3:N:864:VAL:CG1	2.30	0.61
3:N:1366:LYS:O	3:N:1369:GLU:HB2	1.99	0.61
2:M:580:MET:HB3	2:M:584:GLU:CD	2.21	0.61
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.30	0.61
1:A:189:ARG:HH11	1:A:189:ARG:CG	2.13	0.61
2:C:690:ILE:HG13	2:C:694:LEU:HD12	1.82	0.61
2:H:676:ILE:O	2:H:676:ILE:HG23	1.99	0.61
3:N:389:GLU:N	3:N:390:PRO:HD3	2.15	0.61
3:I:202:VAL:HB	3:I:396:VAL:HG22	1.82	0.61
3:I:205:TYR:HA	3:I:392:SER:O	2.00	0.61
2:H:40:GLU:HG2	2:H:42:VAL:HG22	1.83	0.61
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.82	0.61
3:I:1107:VAL:CG1	3:I:1217:ILE:HA	2.29	0.61
3:D:834:THR:HB	3:D:838:ARG:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:850:LEU:HD12	3:D:850:LEU:H	1.65	0.61
2:M:64:LEU:HD22	2:M:359:MET:CB	2.29	0.61
3:N:581:LEU:CD2	3:N:581:LEU:H	2.14	0.61
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.29	0.61
1:L:133:GLU:HG3	1:L:134:GLU:N	2.14	0.61
3:N:642:CYS:HB3	3:N:716:PHE:CB	2.29	0.61
1:F:73:GLU:HB2	1:F:78:ILE:CD1	2.29	0.61
3:I:841:TYR:HB2	3:I:864:VAL:CG1	2.30	0.61
3:N:860:LEU:HD23	3:N:877:PRO:HB2	1.82	0.61
3:N:1078:ARG:CG	3:N:1078:ARG:HH11	2.12	0.61
4:O:59:ASN:OD1	4:O:61:VAL:HG22	1.99	0.61
3:N:519:VAL:HA	3:N:544:TYR:OH	2.00	0.61
2:C:260:LEU:HB3	2:C:293:PHE:CE2	2.35	0.61
2:M:56:GLU:HG2	2:M:356:ARG:HG3	1.82	0.61
2:M:889:HIS:CD2	3:N:951:ILE:HG22	2.34	0.61
2:M:334:ARG:HG2	2:M:338:GLU:OE1	2.01	0.61
3:N:692:GLU:OE1	3:N:720:LEU:HD13	2.00	0.61
3:D:1359:GLN:O	7:X:37:MET:CE	2.48	0.61
3:D:1257:PRO:HA	3:D:1260:ILE:HD12	1.82	0.61
3:D:1261:GLU:O	3:D:1264:GLU:O	2.18	0.61
2:C:1081:VAL:HG21	2:C:1111:ILE:HG23	1.82	0.61
3:N:785:ILE:CD1	3:N:785:ILE:H	2.01	0.61
3:N:1273:VAL:O	3:N:1273:VAL:HG23	2.00	0.61
2:C:408:ARG:HH21	2:C:455:LEU:HD12	1.64	0.61
4:O:54:LEU:O	4:O:54:LEU:HD23	1.99	0.61
2:H:17:PRO:HB2	2:H:20:GLU:HB3	1.82	0.61
3:N:864:VAL:HG12	3:N:865:THR:H	1.65	0.61
3:N:1262:LEU:HB3	3:N:1352:ILE:HD11	1.81	0.61
3:I:477:LEU:HD11	3:I:495:ARG:HG2	1.83	0.61
3:D:1041:LEU:HD12	3:D:1058:ARG:O	2.00	0.61
1:L:32:PHE:HA	1:L:35:THR:OG1	2.00	0.61
2:H:808:ARG:O	2:H:810:ASP:N	2.34	0.61
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.80	0.61
1:B:185:ARG:HD3	3:D:692:GLU:OE2	2.01	0.61
2:H:876:VAL:O	2:H:879:ARG:O	2.17	0.61
3:I:875:THR:HG22	3:I:879:ARG:HB2	1.83	0.61
2:H:292:ARG:HB2	2:H:299:LYS:HE2	1.81	0.61
3:D:841:TYR:HB2	3:D:864:VAL:CG1	2.30	0.61
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.82	0.61
3:N:1251:ASP:O	3:N:1252:ILE:HB	2.00	0.61
3:N:1252:ILE:HG13	3:N:1253:THR:N	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:99:GLN:HA	2:C:109:LYS:O	1.99	0.61
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.82	0.61
3:N:789:LEU:HD13	3:N:911:LEU:HD21	1.82	0.61
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.29	0.61
3:D:580:ALA:HA	3:D:584:ASN:OD1	2.00	0.61
2:C:498:GLN:OE1	3:D:1067:VAL:HB	2.00	0.61
3:N:350:HIS:HD2	3:N:371:ILE:HG12	1.65	0.61
1:G:101:LEU:C	1:G:101:LEU:HD23	2.20	0.61
3:D:30:GLU:HA	3:D:30:GLU:OE1	2.00	0.61
7:Y:55:LYS:O	7:Y:59:GLU:HG3	2.00	0.61
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.83	0.61
2:C:297:GLU:HG2	2:C:298:PHE:N	2.16	0.61
3:I:118:LEU:O	3:I:120:ALA:N	2.34	0.61
2:C:585:GLU:OE2	2:C:589:ARG:HD2	2.00	0.61
2:C:662:GLU:CD	2:C:662:GLU:O	2.39	0.61
2:H:897:LEU:HD21	2:H:921:ALA:HA	1.81	0.61
3:I:137:PRO:HD3	3:I:453:ASP:HB2	1.82	0.61
1:K:42:ARG:NH2	1:L:31:GLY:O	2.33	0.61
3:I:405:ASP:N	3:I:423:ASP:OD1	2.33	0.61
3:I:481:MET:HE2	3:I:493:ARG:HA	1.83	0.61
3:I:1257:PRO:HA	3:I:1260:ILE:CD1	2.27	0.61
1:L:56:VAL:O	1:L:165:ILE:HD13	2.01	0.61
2:H:73:LEU:C	2:H:73:LEU:HD12	2.21	0.61
1:B:55:SER:HA	1:B:167:VAL:HG23	1.81	0.61
3:I:868:TYR:CE1	3:I:869:MET:HG3	2.34	0.61
1:G:26:GLU:HB2	1:G:27:PRO:HA	1.81	0.61
3:I:581:LEU:CD2	3:I:581:LEU:H	2.13	0.61
3:D:802:ALA:O	3:D:803:GLY:O	2.18	0.61
3:N:30:GLU:HA	3:N:30:GLU:OE1	2.00	0.61
1:G:188:GLN:HG2	3:I:685:ASP:OD1	2.00	0.61
4:J:69:LEU:HD23	4:J:70:THR:HG22	1.82	0.61
2:H:191:PHE:CD2	2:H:192:PRO:O	2.54	0.61
2:C:170:PRO:HD3	2:C:263:ASP:HB3	1.80	0.61
3:I:139:GLY:HA3	3:I:162:ARG:NH2	2.15	0.61
3:N:1003:VAL:HG11	3:N:1041:LEU:CD2	2.31	0.61
3:D:683:ILE:O	3:D:683:ILE:HG22	1.99	0.61
3:N:154:THR:HG23	3:N:157:GLU:HB2	1.83	0.61
2:H:343:GLN:O	2:H:346:VAL:HB	2.01	0.61
2:C:660:ALA:O	2:C:667:ALA:HB3	2.00	0.61
3:D:1102:THR:CA	3:D:1105:ILE:HD13	2.28	0.61
2:H:188:LYS:HB2	2:H:188:LYS:HZ3	1.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:202:VAL:O	3:I:396:VAL:N	2.32	0.61
4:J:28:GLN:HB3	4:J:32:ARG:HH12	1.66	0.61
2:C:81:ASP:HA	2:C:84:ARG:HH11	1.64	0.61
2:C:92:ALA:HB2	2:C:120:LEU:HD11	1.83	0.61
2:H:675:ALA:HB2	2:H:867:VAL:HG11	1.81	0.61
3:I:1112:CYS:HB2	3:I:1195:GLN:CG	2.28	0.61
2:H:662:GLU:CD	2:H:662:GLU:O	2.39	0.61
3:I:1122:LEU:CD1	3:I:1186:VAL:HG23	2.30	0.61
4:O:6:ILE:HD11	4:O:10:PHE:CE1	2.36	0.61
3:N:956:ILE:HD13	3:N:1062:ARG:HH21	1.66	0.61
3:I:1359:GLN:O	7:Y:37:MET:HE1	1.99	0.61
1:G:12:THR:OG1	1:G:24:VAL:HB	1.99	0.61
3:I:957:PRO:CG	3:I:1007:VAL:HA	2.31	0.61
2:M:759:THR:HB	2:M:785:VAL:HG22	1.81	0.61
3:I:693:GLU:HG3	4:J:48:MET:HE1	1.81	0.61
3:D:159:ARG:HH12	2:H:218:VAL:HB	1.66	0.61
3:I:615:ARG:HD2	3:I:619:LEU:HD21	1.82	0.61
3:N:520:LEU:HD11	3:N:524:LEU:HD22	1.81	0.61
3:N:181:ASP:O	3:N:204:LEU:HA	1.99	0.61
3:N:567:ILE:O	3:N:571:LYS:HG2	2.01	0.61
2:M:673:LEU:HD22	2:M:867:VAL:HG12	1.83	0.61
3:I:182:GLY:CA	3:I:441:ARG:HH11	2.13	0.61
7:Z:89:VAL:CG1	7:Z:151:VAL:HG13	2.31	0.61
2:C:1032:PHE:O	2:C:1033:GLY:O	2.18	0.61
3:D:704:ARG:CB	3:D:736:PHE:HB3	2.31	0.61
1:F:156:HIS:CD2	1:F:157:GLY:N	2.66	0.61
2:H:19:THR:HG23	2:H:404:LEU:HD11	1.81	0.61
3:D:554:LEU:HD22	3:D:574:LEU:HD22	1.82	0.61
7:X:139:SER:CB	7:X:148:GLU:HG3	2.30	0.61
3:N:922:LEU:N	3:N:922:LEU:HD23	2.16	0.61
3:D:922:LEU:N	3:D:922:LEU:HD23	2.15	0.61
2:H:30:LEU:HB3	2:H:44:ILE:HG13	1.82	0.61
3:N:477:LEU:HD11	3:N:495:ARG:HG2	1.82	0.61
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.64	0.61
3:N:1353:GLN:O	3:N:1357:ARG:HG3	2.00	0.61
3:I:123:LEU:HD11	3:I:152:LEU:HD21	1.82	0.61
2:M:109:LYS:NZ	2:M:367:LEU:C	2.54	0.61
2:M:676:ILE:O	2:M:676:ILE:HG23	2.00	0.61
3:D:457:GLY:O	3:D:459:GLU:N	2.33	0.61
3:N:432:TYR:CD2	3:N:450:TYR:HE2	2.17	0.61
2:H:418:LEU:HD12	2:H:418:LEU:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:195:LEU:O	2:M:198:ARG:HB2	2.00	0.61
2:C:544:THR:O	2:C:547:ILE:CD1	2.49	0.61
3:D:1121:PRO:HB2	3:D:1135:ARG:NH1	1.98	0.61
2:M:544:THR:O	2:M:547:ILE:CD1	2.49	0.61
2:C:1035:MET:HA	2:C:1038:TRP:CE3	2.35	0.61
3:D:1123:PHE:CZ	3:D:1178:ALA:HB1	2.35	0.61
3:N:997:THR:HG21	7:Z:61:ARG:NH1	2.15	0.61
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.36	0.61
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.83	0.61
1:F:158:ILE:HD12	1:F:158:ILE:H	1.64	0.61
3:N:1066:THR:CG2	3:N:1069:GLU:HB2	2.26	0.61
1:L:26:GLU:HB2	1:L:27:PRO:HA	1.81	0.61
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.83	0.61
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.81	0.61
2:C:108:ILE:HG22	2:C:109:LYS:N	2.15	0.61
2:C:451:LEU:C	2:C:452:ILE:HD12	2.21	0.61
2:M:808:ARG:O	2:M:810:ASP:N	2.34	0.61
2:M:451:LEU:C	2:M:452:ILE:HD12	2.21	0.61
2:C:342:ASP:O	2:C:345:ARG:HG2	2.01	0.61
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.21	0.61
4:E:41:GLU:OE1	4:E:42:PRO:HD3	2.01	0.61
3:I:847:ASP:O	3:I:851:LEU:HG	2.01	0.61
1:L:102:LYS:HZ1	1:L:137:ARG:HH12	1.47	0.61
3:N:1041:LEU:HD12	3:N:1058:ARG:C	2.21	0.61
3:N:203:ALA:HB1	3:N:393:ILE:CG2	2.30	0.61
3:N:133:ILE:HG23	3:N:455:ARG:O	1.99	0.61
2:C:666:LEU:HD12	2:C:667:ALA:N	2.14	0.61
2:H:544:THR:O	2:H:547:ILE:CD1	2.49	0.61
2:M:577:PRO:HG3	2:M:993:PHE:CE1	2.35	0.61
6:U:14:C:H2'	6:U:15:G:C8	2.35	0.61
3:I:704:ARG:CB	3:I:736:PHE:HB3	2.31	0.61
7:Y:7:LEU:HA	7:Y:109:GLU:OE2	2.01	0.61
3:N:168:THR:HG22	3:N:170:PRO:CD	2.29	0.61
3:D:826:PRO:HD2	3:D:829:VAL:HG22	1.82	0.61
3:N:617:ASN:HD22	3:N:1466:VAL:HG12	1.65	0.61
2:H:9:ILE:O	2:H:9:ILE:HG13	2.01	0.61
3:N:1112:CYS:HB2	3:N:1195:GLN:CG	2.31	0.61
3:N:907:GLU:HG2	3:N:909:ASN:H	1.66	0.61
3:I:1041:LEU:HD12	3:I:1058:ARG:C	2.21	0.61
3:D:801:GLY:O	3:D:802:ALA:HB2	1.99	0.61
2:C:808:ARG:O	2:C:810:ASP:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.82	0.61
2:H:272:ALA:HA	2:H:464:LEU:HD22	1.82	0.61
2:C:697:ARG:HD2	2:C:699:PHE:CE1	2.36	0.61
3:D:762:GLN:NE2	4:E:20:THR:CG2	2.42	0.61
2:C:1065:ALA:HB1	2:C:1077:PRO:CG	2.18	0.61
2:C:1084:SER:HB3	3:D:617:ASN:OD1	2.00	0.61
1:K:80:LEU:HD23	1:K:81:ASN:N	2.16	0.61
1:G:52:ALA:HB2	1:G:170:VAL:C	2.22	0.61
7:Y:11:GLY:HA3	7:Y:109:GLU:OE1	2.01	0.61
3:I:907:GLU:HG2	3:I:909:ASN:H	1.66	0.61
3:I:684:LYS:O	3:I:687:VAL:HG23	2.01	0.61
3:D:152:LEU:HD23	3:D:152:LEU:N	2.10	0.61
2:C:144:PRO:O	2:C:276:LYS:NZ	2.34	0.61
2:H:126:SER:HB3	2:H:395:LYS:HZ1	1.66	0.61
3:I:864:VAL:HG12	3:I:865:THR:H	1.65	0.61
3:N:1025:GLN:NE2	3:N:1025:GLN:HA	2.16	0.61
3:I:1397:LYS:HZ1	3:I:1432:LYS:NZ	1.99	0.61
3:I:679:ARG:HB2	3:I:682:ASP:OD1	2.01	0.61
3:I:1487:VAL:HG12	3:I:1488:ASP:H	1.65	0.61
3:I:1353:GLN:O	3:I:1357:ARG:HG3	2.01	0.61
2:C:430:VAL:HG13	2:C:430:VAL:O	2.01	0.61
1:L:52:ALA:HB2	1:L:170:VAL:C	2.22	0.61
3:I:956:ILE:HD11	3:I:1062:ARG:CB	2.31	0.61
2:H:682:TYR:CE1	2:H:851:LYS:HD3	2.36	0.60
2:C:202:TYR:HB3	2:C:207:LEU:HD12	1.81	0.60
2:C:300:ASP:OD2	2:C:303:PHE:HB2	2.00	0.60
2:H:313:LEU:CB	2:H:320:HIS:HE1	2.14	0.60
2:H:1105:LYS:HZ1	2:H:1107:ASN:HB2	1.63	0.60
2:M:184:MET:HB2	2:M:193:LEU:CG	2.31	0.60
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.83	0.60
3:D:1264:GLU:HG2	3:D:1266:ARG:HH21	1.66	0.60
2:C:1081:VAL:CB	2:C:1111:ILE:HG22	2.30	0.60
2:C:91:GLN:HA	2:C:119:PRO:HA	1.83	0.60
2:H:54:ILE:O	2:H:54:ILE:CG2	2.50	0.60
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.29	0.60
3:I:567:ILE:O	3:I:571:LYS:HG2	2.01	0.60
2:H:1070:ILE:HG21	3:I:655:PRO:HB2	1.81	0.60
3:I:23:TYR:O	3:I:49:ILE:CG2	2.49	0.60
2:M:63:GLY:N	2:M:103:LYS:CG	2.63	0.60
3:D:988:ARG:O	3:D:992:ILE:HG13	2.01	0.60
1:L:86:VAL:HG13	1:L:124:ASN:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:850:LEU:H	3:I:850:LEU:HD12	1.65	0.60
1:B:132:LEU:HD21	1:B:138:LEU:CB	2.30	0.60
3:I:198:ARG:HH11	3:I:198:ARG:HG3	1.66	0.60
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.31	0.60
7:Y:14:ARG:HH11	7:Y:14:ARG:HB3	1.64	0.60
2:M:690:ILE:HG13	2:M:694:LEU:HD12	1.82	0.60
4:E:24:ALA:O	4:E:27:ALA:N	2.34	0.60
3:D:564:GLU:H	2:H:223:ASP:HA	1.66	0.60
3:I:692:GLU:OE1	3:I:720:LEU:HD13	2.01	0.60
3:D:458:ALA:HB2	3:D:575:GLN:HE22	1.66	0.60
3:I:615:ARG:CG	3:I:619:LEU:HD21	2.31	0.60
3:N:675:ARG:NH1	3:N:679:ARG:HH11	1.99	0.60
2:M:143:SER:O	2:M:147:TYR:OH	2.19	0.60
2:M:333:ILE:N	2:M:333:ILE:CD1	2.65	0.60
2:M:660:ALA:O	2:M:667:ALA:HB3	2.00	0.60
2:H:1095:LEU:HB2	3:I:101:HIS:HE1	1.66	0.60
2:M:897:LEU:HD21	2:M:921:ALA:HA	1.81	0.60
1:F:206:THR:HG22	1:F:209:GLU:HG3	1.83	0.60
3:N:785:ILE:HD12	3:N:785:ILE:N	2.03	0.60
2:M:282:GLY:C	2:M:283:ILE:HG12	2.20	0.60
2:H:939:ARG:HE	2:H:939:ARG:CA	2.06	0.60
3:I:1264:GLU:HG2	3:I:1266:ARG:HH21	1.66	0.60
2:M:662:GLU:CD	2:M:662:GLU:O	2.39	0.60
3:I:1018:ASN:HB3	3:I:1021:TYR:HB3	1.83	0.60
3:D:1273:VAL:O	3:D:1273:VAL:HG23	2.00	0.60
3:N:850:LEU:H	3:N:850:LEU:HD12	1.65	0.60
2:H:580:MET:HB3	2:H:584:GLU:CD	2.21	0.60
2:C:101:ILE:HG23	2:C:108:ILE:CG1	2.31	0.60
3:I:561:GLY:C	3:I:563:PRO:HD3	2.20	0.60
7:Z:17:GLN:O	7:Z:21:ARG:HD3	2.01	0.60
1:F:189:ARG:CG	1:F:189:ARG:HH11	2.13	0.60
2:C:146:VAL:HB	2:C:281:LEU:HD21	1.82	0.60
2:H:430:VAL:O	2:H:430:VAL:HG13	2.01	0.60
2:C:22:GLN:HB3	2:C:121:MET:CE	2.31	0.60
2:C:307:LEU:HD12	2:C:310:LEU:HB3	1.82	0.60
3:N:991:GLN:OE1	7:Z:111:ASN:HA	2.01	0.60
2:M:127:PHE:O	2:M:133:ASP:HA	2.01	0.60
3:N:153:LEU:CD1	3:N:158:TYR:HB2	2.31	0.60
2:M:666:LEU:HD12	2:M:667:ALA:H	1.65	0.60
2:M:185:LYS:HG2	2:M:190:LYS:HG3	1.83	0.60
2:C:571:LEU:HD11	2:C:700:TYR:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1486:VAL:HG12	4:O:22:VAL:HG13	1.84	0.60
3:I:656:PHE:HB3	3:I:694:VAL:HG11	1.82	0.60
3:N:1388:ARG:NH1	3:N:1388:ARG:HA	2.16	0.60
3:D:152:LEU:CD2	3:D:152:LEU:N	2.64	0.60
2:H:18:LEU:CD1	2:H:586:ARG:NH1	2.65	0.60
2:C:473:ARG:NE	2:C:531:PHE:CZ	2.69	0.60
2:H:571:LEU:CD1	2:H:701:THR:N	2.65	0.60
2:H:697:ARG:HB2	2:H:699:PHE:HD1	1.67	0.60
3:I:1205:TYR:HD2	3:I:1215:VAL:HG21	1.67	0.60
3:I:1366:LYS:O	3:I:1369:GLU:HB2	2.00	0.60
5:R:18:DC:H2'	5:R:19:DC:C6	2.36	0.60
1:B:52:ALA:HB2	1:B:170:VAL:C	2.21	0.60
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.36	0.60
1:L:170:VAL:HG11	3:N:848:GLU:OE2	2.01	0.60
2:H:212:GLY:C	2:H:214:TYR:H	2.04	0.60
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.32	0.60
2:H:690:ILE:HG13	2:H:694:LEU:HD12	1.82	0.60
3:D:160:GLU:CG	3:D:165:LYS:HE3	2.31	0.60
2:H:204:GLN:NE2	2:H:228:ALA:CB	2.64	0.60
3:I:947:ILE:O	3:I:947:ILE:CD1	2.46	0.60
3:D:677:LEU:HD23	3:D:683:ILE:HD13	1.79	0.60
3:N:179:VAL:HG13	3:N:183:GLU:CG	2.31	0.60
3:N:982:PHE:HB3	7:Z:119:ILE:HD12	1.83	0.60
2:H:52:PHE:HZ	2:H:98:LEU:HB3	1.67	0.60
3:N:704:ARG:CB	3:N:736:PHE:HB3	2.31	0.60
3:I:1273:VAL:O	3:I:1273:VAL:HG23	2.00	0.60
3:I:729:HIS:CE1	3:I:731:LEU:HB2	2.36	0.60
2:M:235:LEU:CD1	2:M:298:PHE:CZ	2.81	0.60
2:H:794:PRO:HG2	2:H:1025:ALA:C	2.21	0.60
2:H:861:LEU:HG	2:H:862:PRO:CD	2.26	0.60
2:M:654:LEU:CD2	2:M:654:LEU:H	2.13	0.60
1:G:62:LEU:CD1	1:G:63:HIS:H	2.11	0.60
2:H:94:LEU:HD12	2:H:95:TYR:N	2.16	0.60
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.01	0.60
3:N:400:VAL:HG22	3:N:443:VAL:HG21	1.82	0.60
1:K:31:GLY:H	1:K:193:ASP:CG	2.05	0.60
3:N:847:ASP:O	3:N:851:LEU:HG	2.01	0.60
2:H:679:PHE:CE2	2:H:853:LEU:HD21	2.37	0.60
2:M:100:LEU:O	2:M:108:ILE:HA	2.01	0.60
2:H:333:ILE:HD12	2:H:333:ILE:N	2.16	0.60
3:N:770:LEU:HB2	3:N:1210:SER:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:254:VAL:C	2:M:257:VAL:HG23	2.21	0.60
1:K:156:HIS:CD2	1:K:157:GLY:N	2.66	0.60
1:K:158:ILE:HD12	1:K:158:ILE:H	1.64	0.60
3:I:860:LEU:HD23	3:I:877:PRO:HB2	1.82	0.60
3:N:908:LYS:HB2	3:N:1027:GLY:HA3	1.83	0.60
3:D:477:LEU:HD11	3:D:495:ARG:HG2	1.83	0.60
2:M:1034:GLU:OE2	3:N:1096:ARG:NH1	2.35	0.60
3:D:847:ASP:O	3:D:851:LEU:HG	2.02	0.60
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.82	0.60
3:I:119:SER:HB2	3:I:123:LEU:N	2.17	0.60
2:H:660:ALA:CB	2:H:667:ALA:O	2.37	0.60
3:I:108:VAL:HB	3:I:109:PRO:CD	2.29	0.60
3:I:1441:GLN:HG2	3:I:1442:ASN:N	2.16	0.60
3:D:1102:THR:HG21	3:D:1371:VAL:HG22	1.83	0.60
2:C:98:LEU:H	2:C:98:LEU:HD12	1.66	0.60
2:M:674:VAL:HG12	2:M:990:GLY:O	2.01	0.60
7:Z:102:VAL:HG11	7:Z:125:MET:HE1	1.83	0.60
3:I:1114:THR:HG22	3:I:1195:GLN:HB3	1.83	0.60
1:A:9:PRO:HB2	1:B:224:TYR:HB3	1.84	0.60
3:D:792:ILE:O	3:D:878:GLY:HA3	2.01	0.60
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.01	0.60
3:I:792:ILE:O	3:I:878:GLY:HA3	2.01	0.60
3:N:792:ILE:O	3:N:878:GLY:HA3	2.01	0.60
3:N:838:ARG:HB3	3:N:865:THR:CG2	2.30	0.60
3:N:1149:LEU:HG	3:N:1166:LEU:CD2	2.32	0.60
2:C:449:ILE:HG21	3:D:1082:ALA:HA	1.84	0.60
3:I:922:LEU:N	3:I:922:LEU:HD23	2.16	0.60
3:D:907:GLU:HG2	3:D:909:ASN:H	1.66	0.60
2:C:580:MET:HB3	2:C:584:GLU:CD	2.21	0.60
2:H:705:ILE:HG23	2:H:827:VAL:O	2.02	0.60
3:I:1397:LYS:NZ	3:I:1432:LYS:HZ3	2.00	0.60
2:M:458:TYR:N	2:M:458:TYR:CD1	2.70	0.60
2:C:706:GLU:HG2	2:C:708:TYR:CZ	2.36	0.60
3:D:1149:LEU:HD23	3:D:1187:PRO:O	2.00	0.60
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.32	0.60
2:M:144:PRO:O	2:M:276:LYS:NZ	2.34	0.60
2:H:666:LEU:HD12	2:H:667:ALA:H	1.66	0.60
3:N:1264:GLU:HG2	3:N:1266:ARG:HH21	1.66	0.60
3:D:692:GLU:OE1	3:D:720:LEU:HD13	2.00	0.60
2:M:188:LYS:CG	2:M:188:LYS:O	2.47	0.60
3:I:204:LEU:O	3:I:394:LEU:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:729:HIS:CE1	3:N:731:LEU:HB2	2.36	0.60
1:G:42:ARG:CZ	1:G:42:ARG:HB3	2.31	0.60
3:D:729:HIS:CE1	3:D:731:LEU:HB2	2.36	0.60
2:M:939:ARG:CA	2:M:939:ARG:HE	2.06	0.60
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.28	0.60
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.31	0.60
3:I:143:ASN:CB	3:I:161:LEU:HD11	2.31	0.60
2:M:657:ASP:OD1	2:M:661:SER:O	2.20	0.60
3:D:864:VAL:HG12	3:D:865:THR:H	1.65	0.60
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.36	0.60
2:C:269:LEU:HD23	2:C:270:GLY:N	2.16	0.60
3:I:834:THR:HB	3:I:838:ARG:HB2	1.82	0.60
3:I:885:ILE:N	3:I:885:ILE:HD13	2.16	0.60
3:N:907:GLU:HG2	3:N:908:LYS:N	2.17	0.60
3:I:957:PRO:HG2	3:I:1007:VAL:HA	1.84	0.60
1:F:150:TYR:HE2	1:F:152:PRO:HG3	1.67	0.60
3:N:1280:VAL:HA	3:N:1318:TYR:HA	1.83	0.60
1:B:59:GLU:OE2	1:B:139:ASN:HB3	2.02	0.60
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.82	0.60
3:I:30:GLU:OE1	3:I:30:GLU:HA	2.00	0.60
3:D:1353:GLN:O	3:D:1357:ARG:HG3	2.00	0.60
2:H:966:LEU:HD21	2:H:986:PRO:CG	2.32	0.60
1:B:92:PRO:HA	1:B:146:ARG:NH1	2.17	0.60
2:C:1043:TYR:CE2	3:D:710:ARG:HD2	2.36	0.60
2:H:904:PRO:HD2	2:H:908:GLY:HA2	1.83	0.60
3:N:50:PHE:CZ	3:N:522:PRO:HG3	2.37	0.60
3:I:615:ARG:HE	3:I:619:LEU:HD21	1.66	0.60
2:M:129:ILE:CD1	2:M:129:ILE:N	2.65	0.60
2:M:1086:ARG:CZ	3:N:88:TYR:CE1	2.84	0.60
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.83	0.60
3:N:124:GLU:O	3:N:127:LEU:HD12	2.01	0.60
3:D:758:GLU:HA	4:E:20:THR:HG21	1.83	0.60
3:D:1107:VAL:HG23	3:D:1219:GLU:O	2.02	0.60
3:D:977:ALA:CB	3:D:983:LEU:HD21	2.31	0.60
2:M:946:ARG:NH1	3:N:796:ARG:HH22	1.99	0.60
2:C:15:LEU:HD12	2:C:15:LEU:N	2.16	0.60
3:N:1025:GLN:HE21	3:N:1025:GLN:CA	2.14	0.60
2:H:1043:TYR:HE1	3:I:710:ARG:O	1.85	0.60
2:M:1044:GLY:HA3	4:O:17:TYR:CE1	2.37	0.60
2:C:63:GLY:N	2:C:103:LYS:HD3	2.17	0.60
3:D:179:VAL:CG1	3:D:183:GLU:HB3	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:302:VAL:C	2:C:305:PRO:HD2	2.21	0.60
2:M:987:ILE:HD11	3:N:946:GLY:CA	2.32	0.60
2:M:988:VAL:HG11	3:N:949:ILE:O	2.02	0.60
3:I:615:ARG:HG3	3:I:619:LEU:HD21	1.83	0.60
2:H:1102:LEU:HB2	3:I:7:LYS:O	2.01	0.60
2:M:157:ARG:CZ	2:M:314:THR:HG23	2.31	0.60
1:G:74:ASP:N	1:L:162:ILE:HD13	2.17	0.60
3:D:452:ILE:H	3:D:452:ILE:HD13	1.66	0.60
3:D:1105:ILE:HB	3:D:1222:GLY:CA	2.31	0.60
2:H:304:LEU:HG	2:H:305:PRO:CD	2.25	0.60
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.82	0.60
3:N:108:VAL:HB	3:N:109:PRO:CD	2.29	0.60
3:I:997:THR:CG2	7:Y:61:ARG:NH1	2.63	0.60
1:A:34:VAL:HG11	1:B:42:ARG:HH21	1.66	0.60
3:I:826:PRO:HD2	3:I:829:VAL:HG22	1.82	0.60
2:M:395:LYS:O	2:M:397:GLU:HG3	2.01	0.60
3:D:544:TYR:CE2	3:D:581:LEU:HD12	2.37	0.60
3:N:1235:GLN:NE2	7:Z:43:TYR:HE1	2.00	0.60
2:C:47:ALA:O	2:C:348:LEU:HD23	2.02	0.60
3:N:372:ASP:C	3:N:374:GLU:H	2.05	0.60
2:H:376:ARG:HB3	2:H:377:PRO:HD3	1.84	0.60
2:H:458:TYR:N	2:H:458:TYR:CD1	2.70	0.60
4:E:43:GLU:O	4:E:44:GLU:HB2	2.01	0.60
2:C:243:ARG:HB2	2:C:244:PRO:HD3	1.84	0.60
2:M:129:ILE:CG1	2:M:134:ARG:CD	2.79	0.60
2:H:6:PHE:CE2	2:H:917:LEU:HD11	2.37	0.60
3:D:814:ALA:HB1	3:D:818:ARG:HE	1.67	0.60
2:H:52:PHE:O	2:H:54:ILE:N	2.35	0.60
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.02	0.60
3:D:838:ARG:HB3	3:D:865:THR:CG2	2.29	0.60
2:H:657:ASP:OD1	2:H:661:SER:O	2.20	0.60
3:I:984:THR:CG2	3:I:987:GLU:H	2.14	0.60
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.37	0.60
4:O:51:LEU:HD12	4:O:53:GLY:N	2.17	0.60
3:D:907:GLU:HG2	3:D:908:LYS:N	2.17	0.60
2:M:236:ILE:H	2:M:236:ILE:CD1	2.15	0.60
1:B:190:THR:CB	3:D:722:GLU:OE1	2.49	0.60
4:E:19:LEU:O	4:E:23:VAL:HG23	2.02	0.60
3:I:1040:GLY:O	3:I:1060:SER:HB3	2.02	0.60
3:D:191:LEU:HD12	3:D:195:VAL:HG12	1.83	0.59
3:N:970:LYS:NZ	7:Z:113:LEU:HB3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:313:LEU:CG	2:H:320:HIS:ND1	2.60	0.59
3:N:189:GLN:HE22	3:N:191:LEU:H	1.49	0.59
2:H:260:LEU:HD23	2:H:261:ILE:N	2.17	0.59
3:N:118:LEU:O	3:N:120:ALA:N	2.34	0.59
2:H:1008:ARG:NH1	3:I:624:ASP:OD1	2.34	0.59
3:I:1047:LYS:NZ	3:I:1053:PHE:HA	2.17	0.59
3:N:977:ALA:CB	3:N:983:LEU:HD21	2.31	0.59
2:C:1034:GLU:HG3	2:C:1038:TRP:CZ2	2.37	0.59
1:K:39:PRO:HG3	1:L:39:PRO:HG2	1.84	0.59
2:M:1046:ALA:CB	3:N:1476:THR:CB	2.79	0.59
2:M:516:ARG:CD	3:N:1068:LEU:HD22	2.32	0.59
3:I:799:LYS:HD3	3:I:826:PRO:CG	2.32	0.59
3:I:988:ARG:O	3:I:992:ILE:HG13	2.01	0.59
3:I:992:ILE:O	3:I:995:LEU:HB3	2.02	0.59
3:I:25:GLU:HB2	3:I:92:HIS:CE1	2.37	0.59
7:X:26:LEU:HD13	7:X:58:ILE:CG2	2.32	0.59
3:D:1422:MET:CE	3:D:1427:SER:HA	2.32	0.59
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.84	0.59
4:O:70:THR:OG1	4:O:72:ARG:HG2	2.02	0.59
3:D:1031:ASN:OD1	3:D:1033:GLN:HB3	2.02	0.59
3:I:1071:PHE:O	3:I:1074:SER:HB3	2.02	0.59
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.83	0.59
3:I:991:GLN:HE22	7:Y:112:VAL:HG21	1.65	0.59
2:C:317:VAL:HG12	2:C:317:VAL:O	2.01	0.59
2:C:274:ARG:NH1	2:C:274:ARG:HG2	2.13	0.59
3:D:992:ILE:O	3:D:995:LEU:HB3	2.03	0.59
3:D:1037:GLN:OE1	3:D:1042:ARG:NH1	2.35	0.59
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.17	0.59
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.83	0.59
2:C:1014:SER:HB2	2:C:1021:LEU:HD13	1.83	0.59
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.02	0.59
2:C:257:VAL:HG12	2:C:263:ASP:CG	2.22	0.59
2:C:332:ARG:NH1	2:C:464:LEU:HD21	2.17	0.59
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.17	0.59
3:I:131:LYS:CA	3:I:568:ARG:HD2	2.31	0.59
2:M:557:ARG:NH1	2:M:560:MET:CG	2.65	0.59
3:N:100:ALA:CB	3:N:128:TYR:OH	2.51	0.59
3:D:1463:LYS:O	3:D:1466:VAL:HB	2.01	0.59
2:H:564:MET:HE2	2:H:846:LYS:HD2	1.84	0.59
2:M:274:ARG:NH2	2:M:278:GLU:OE2	2.36	0.59
7:X:81:GLU:O	7:X:154:ILE:CD1	2.48	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:80:GLN:HG3	2:H:90:TYR:CE2	2.37	0.59
2:H:292:ARG:CG	2:H:299:LYS:HB3	2.27	0.59
2:H:12:VAL:HG13	2:H:13:ILE:H	1.65	0.59
3:D:984:THR:CG2	3:D:987:GLU:H	2.14	0.59
3:D:1489:GLN:O	3:D:1493:LYS:HG3	2.02	0.59
2:H:442:GLU:OE2	2:H:543:ASN:HB3	2.02	0.59
3:N:972:LEU:O	3:N:976:GLN:HG3	2.02	0.59
3:D:972:LEU:O	3:D:976:GLN:HG3	2.02	0.59
3:D:171:LEU:HB3	3:D:391:ALA:O	2.01	0.59
3:D:171:LEU:HD23	3:D:172:PRO:CD	2.33	0.59
3:N:988:ARG:O	3:N:992:ILE:HG13	2.01	0.59
3:N:992:ILE:O	3:N:995:LEU:HB3	2.02	0.59
2:M:267:TYR:CB	2:M:272:ALA:HB1	2.26	0.59
3:N:814:ALA:HB1	3:N:818:ARG:HE	1.67	0.59
2:C:585:GLU:O	2:C:588:VAL:HG22	2.02	0.59
2:H:1052:MET:SD	3:I:623:VAL:CG2	2.91	0.59
7:X:32:ILE:O	7:X:36:LEU:HG	2.03	0.59
2:M:118:ILE:HD12	2:M:118:ILE:C	2.23	0.59
1:G:211:LEU:O	1:G:215:VAL:HG13	2.02	0.59
3:N:1359:GLN:NE2	7:Z:52:LYS:HD3	2.17	0.59
3:I:1288:GLU:HG2	3:I:1307:LYS:NZ	2.17	0.59
7:X:115:THR:HB	7:X:116:PRO:CD	2.32	0.59
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.84	0.59
2:M:1098:ASP:N	3:N:11:ALA:O	2.34	0.59
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.85	0.59
1:B:190:THR:HB	3:D:722:GLU:OE1	2.02	0.59
2:C:458:TYR:CD1	2:C:458:TYR:N	2.70	0.59
3:I:972:LEU:O	3:I:976:GLN:HG3	2.02	0.59
2:H:1004:LYS:CD	3:I:744:GLN:HE22	2.07	0.59
2:M:1095:LEU:HD11	2:M:1097:LEU:CB	2.28	0.59
3:I:977:ALA:CB	3:I:983:LEU:HD21	2.31	0.59
2:H:500:ASN:ND2	2:H:500:ASN:N	2.45	0.59
2:C:603:VAL:HG13	2:C:613:VAL:CG1	2.32	0.59
1:K:102:LYS:HD3	1:K:139:ASN:HD21	1.64	0.59
2:M:442:GLU:OE2	2:M:543:ASN:HB3	2.02	0.59
3:D:584:ASN:ND2	3:D:590:PRO:HG2	2.16	0.59
3:N:1040:GLY:O	3:N:1060:SER:HB3	2.02	0.59
2:H:486:MET:HG3	2:H:490:GLU:HB2	1.84	0.59
3:I:520:LEU:CD1	3:I:524:LEU:HD22	2.14	0.59
3:I:127:LEU:CD1	3:I:457:GLY:HA2	2.32	0.59
3:D:126:VAL:O	3:D:132:TYR:HD2	1.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:397:LYS:O	3:N:397:LYS:HG3	2.01	0.59
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.67	0.59
3:D:1255:GLY:O	3:D:1259:VAL:HG23	2.02	0.59
3:N:983:LEU:HD23	3:N:983:LEU:N	2.18	0.59
2:H:654:LEU:CD2	2:H:654:LEU:H	2.13	0.59
1:A:54:THR:HG22	1:A:158:ILE:HD13	1.83	0.59
2:H:126:SER:HB3	2:H:395:LYS:NZ	2.17	0.59
2:M:1031:ARG:NH2	3:N:621:LYS:NZ	2.50	0.59
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.66	0.59
2:H:474:VAL:HG13	2:H:529:VAL:O	2.02	0.59
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.17	0.59
2:M:154:ARG:HH12	2:M:178:PRO:CD	2.15	0.59
7:X:16:MET:CE	7:X:69:LEU:HD13	2.33	0.59
3:D:1018:ASN:HB3	3:D:1021:TYR:HB3	1.83	0.59
3:D:205:TYR:HD1	3:D:390:PRO:CG	2.16	0.59
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.17	0.59
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.36	0.59
2:C:557:ARG:NH1	2:C:560:MET:CG	2.64	0.59
2:M:157:ARG:NH1	2:M:314:THR:HG21	2.17	0.59
3:N:179:VAL:HG22	3:N:183:GLU:OE2	2.02	0.59
3:N:119:SER:HB2	3:N:123:LEU:N	2.17	0.59
3:N:137:PRO:CG	3:N:453:ASP:HB2	2.31	0.59
2:M:204:GLN:NE2	2:M:228:ALA:HB1	2.17	0.59
3:D:1225:ALA:O	3:D:1229:ILE:HG13	2.03	0.59
3:D:1101:VAL:CG1	3:D:1424:VAL:HG23	2.32	0.59
3:I:1216:SER:CB	4:J:16:LYS:H	2.15	0.59
2:C:129:ILE:N	2:C:129:ILE:HD12	2.17	0.59
5:T:18:DC:H2''	5:T:19:DC:C5'	2.27	0.59
3:D:407:VAL:HG22	3:D:408:GLU:N	2.10	0.59
3:N:351:MET:HG3	3:N:370:ALA:HB2	1.83	0.59
2:M:142:ARG:NE	2:M:325:ILE:CG2	2.66	0.59
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.84	0.59
1:F:54:THR:HG22	1:F:158:ILE:HD13	1.83	0.59
3:I:1122:LEU:HD11	3:I:1186:VAL:CG2	2.29	0.59
3:I:1288:GLU:O	3:I:1307:LYS:HE2	2.03	0.59
2:H:363:SER:HB2	2:H:366:SER:CB	2.31	0.59
3:N:834:THR:HB	3:N:838:ARG:HB2	1.82	0.59
2:M:18:LEU:N	2:M:18:LEU:HD12	2.16	0.59
3:N:875:THR:HG22	3:N:879:ARG:HB2	1.83	0.59
2:M:212:GLY:C	2:M:214:TYR:H	2.06	0.59
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:380:ALA:O	2:C:384:GLU:HB2	2.03	0.59
3:D:208:PRO:HG3	3:D:353:VAL:CG1	2.33	0.59
3:I:131:LYS:NZ	3:I:133:ILE:HD11	2.18	0.59
2:H:313:LEU:HB3	2:H:320:HIS:HE1	1.68	0.59
2:M:1059:ASP:OD1	2:M:1062:GLY:N	2.34	0.59
1:G:133:GLU:HG3	1:G:134:GLU:N	2.16	0.59
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.22	0.59
1:B:185:ARG:NH1	3:D:692:GLU:HB3	2.18	0.59
1:F:42:ARG:HH12	1:G:34:VAL:CG1	2.16	0.59
7:Z:102:VAL:HG13	7:Z:119:ILE:HG12	1.84	0.59
2:C:1091:GLU:OE2	3:D:613:ARG:HG3	2.03	0.59
3:I:814:ALA:HB1	3:I:818:ARG:NH2	2.17	0.59
2:C:953:VAL:HG11	2:C:962:GLN:HB3	1.85	0.59
3:D:983:LEU:N	3:D:983:LEU:HD23	2.18	0.59
3:N:1442:ASN:HD21	3:N:1444:THR:HB	1.66	0.59
2:H:571:LEU:CD1	2:H:701:THR:H	2.16	0.59
3:N:885:ILE:N	3:N:885:ILE:HD13	2.16	0.59
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.84	0.59
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.37	0.59
4:O:59:ASN:HD21	4:O:61:VAL:CG2	2.16	0.59
3:D:160:GLU:OE1	3:D:161:LEU:HG	2.03	0.59
3:D:171:LEU:CD2	3:D:175:VAL:HB	2.32	0.59
3:D:206:ARG:CD	3:D:394:LEU:HD21	2.31	0.59
3:D:170:PRO:CD	2:H:318:PRO:HB3	2.28	0.59
3:I:525:ARG:HD3	3:I:525:ARG:H	1.67	0.59
2:H:851:LYS:HG2	2:H:853:LEU:HD12	1.85	0.59
2:M:272:ALA:HA	2:M:464:LEU:CD2	2.33	0.59
3:D:480:GLU:O	3:D:484:PRO:HG2	2.01	0.59
2:C:657:ASP:OD1	2:C:661:SER:O	2.20	0.59
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.02	0.59
2:H:557:ARG:NH1	2:H:560:MET:CG	2.64	0.59
1:L:211:LEU:O	1:L:215:VAL:HG13	2.02	0.59
3:I:907:GLU:HG2	3:I:908:LYS:N	2.17	0.59
2:M:662:GLU:O	2:M:663:ASN:HB2	2.03	0.59
3:D:800:LYS:HD2	3:D:804:LEU:HD13	1.85	0.59
1:G:102:LYS:HG3	1:G:139:ASN:HB2	1.85	0.59
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.37	0.59
3:N:1152:GLU:CG	3:N:1161:GLU:HA	2.31	0.59
7:Z:5:VAL:HB	7:Z:72:ALA:HA	1.84	0.59
3:I:963:TYR:CD2	3:I:1002:LYS:HD3	2.38	0.59
3:I:1233:GLY:HA2	3:I:1236:LEU:HG	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:347:VAL:HG22	3:D:368:VAL:HG11	1.83	0.59
2:H:683:ASN:HA	2:H:687:ALA:HB3	1.83	0.59
2:M:111:ASP:OD2	2:M:369:PRO:CG	2.50	0.59
2:M:141:HIS:O	2:M:331:ARG:HA	2.02	0.59
2:M:415:PRO:HB2	2:M:418:LEU:CD1	2.33	0.59
3:N:23:TYR:O	3:N:49:ILE:HG23	2.03	0.59
3:D:173:PRO:HB3	2:H:279:GLU:OE1	2.03	0.59
2:C:666:LEU:HD12	2:C:667:ALA:H	1.66	0.59
4:J:54:LEU:HA	4:J:58:PRO:CG	2.33	0.59
2:M:254:VAL:O	2:M:257:VAL:HG23	2.02	0.59
6:U:15:G:C2'	6:U:16:G:H5'	2.32	0.59
2:C:319:GLY:O	2:C:321:GLU:OE2	2.21	0.59
2:H:292:ARG:HD2	2:H:299:LYS:HE2	1.85	0.59
2:C:496:ILE:HA	2:C:531:PHE:O	2.02	0.59
2:H:697:ARG:HB2	2:H:699:PHE:CD1	2.37	0.59
3:I:996:TRP:CE2	3:I:1056:PRO:HG2	2.37	0.59
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.17	0.59
3:D:365:ASP:O	3:D:379:ALA:HB3	2.03	0.59
2:M:707:ARG:HG3	2:M:826:TYR:CD1	2.38	0.59
2:C:442:GLU:OE2	2:C:543:ASN:HB3	2.02	0.59
2:C:64:LEU:HD22	2:C:359:MET:CG	2.33	0.59
3:D:403:PHE:CD2	3:D:444:VAL:HG23	2.36	0.59
7:Y:139:SER:HB3	7:Y:148:GLU:CG	2.33	0.59
3:I:153:LEU:CD1	3:I:158:TYR:HB2	2.32	0.58
2:H:1086:ARG:CZ	3:I:88:TYR:CZ	2.85	0.58
3:N:1047:LYS:NZ	3:N:1053:PHE:HA	2.17	0.58
3:N:205:TYR:CD1	3:N:390:PRO:HB3	2.38	0.58
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.17	0.58
3:D:139:GLY:CA	3:D:162:ARG:NH2	2.53	0.58
2:C:80:GLN:OE1	2:C:90:TYR:CE2	2.56	0.58
2:C:1012:PRO:HD2	2:C:1026:GLN:CB	2.33	0.58
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.84	0.58
3:N:368:VAL:HB	3:N:377:VAL:CG2	2.33	0.58
2:H:305:PRO:HG3	2:H:308:ARG:HH21	1.68	0.58
3:D:102:ILE:CD1	3:D:106:LYS:HB2	2.34	0.58
2:H:662:GLU:O	2:H:663:ASN:HB2	2.03	0.58
3:N:1037:GLN:OE1	3:N:1042:ARG:NH1	2.35	0.58
1:L:124:ASN:N	1:L:125:PRO:HD3	2.18	0.58
2:H:906:PHE:CD1	3:I:1067:VAL:HG13	2.38	0.58
2:H:351:LEU:HD12	2:H:374:ASN:HD22	1.68	0.58
1:F:75:VAL:O	1:F:79:ILE:HG12	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1189:ARG:HG3	3:N:1189:ARG:HH11	1.68	0.58
2:C:500:ASN:ND2	2:C:500:ASN:N	2.51	0.58
2:H:360:LEU:HD23	2:H:360:LEU:H	1.68	0.58
2:H:553:ASP:OD1	2:H:843:HIS:ND1	2.33	0.58
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.32	0.58
2:M:564:MET:SD	2:M:846:LYS:CD	2.89	0.58
3:N:148:GLU:HG2	3:N:151:GLN:CB	2.33	0.58
2:C:175:GLU:O	2:C:183:SER:N	2.36	0.58
2:M:173:ASP:O	2:M:174:LEU:HD23	2.02	0.58
2:H:1097:LEU:HD21	3:I:1447:LEU:HB3	1.85	0.58
2:H:99:GLN:HA	2:H:109:LYS:O	2.03	0.58
3:D:1264:GLU:O	3:D:1266:ARG:HG3	2.03	0.58
2:H:6:PHE:HB2	2:H:909:ALA:HA	1.85	0.58
3:N:1292:VAL:CG2	3:N:1311:LEU:HD13	2.33	0.58
3:N:211:VAL:O	3:N:211:VAL:HG12	2.02	0.58
3:D:881:LEU:HD11	3:D:885:ILE:HD11	1.85	0.58
3:N:881:LEU:HD11	3:N:885:ILE:HD11	1.85	0.58
1:A:102:LYS:HD3	1:A:139:ASN:HD21	1.64	0.58
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.01	0.58
2:C:338:GLU:HA	2:C:341:THR:HG22	1.85	0.58
2:H:498:GLN:O	2:H:501:THR:HG23	2.02	0.58
2:H:516:ARG:NE	3:I:1068:LEU:HD22	2.18	0.58
1:L:188:GLN:HG2	3:N:685:ASP:OD1	2.02	0.58
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.86	0.58
7:Y:84:GLY:HA2	7:Y:130:LEU:CD1	2.32	0.58
2:M:430:VAL:HG13	2:M:430:VAL:O	2.01	0.58
3:D:355:VAL:HG21	3:D:367:ILE:HG23	1.85	0.58
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.03	0.58
3:I:1463:LYS:O	3:I:1466:VAL:HB	2.03	0.58
2:H:185:LYS:HG2	2:H:189:ARG:O	2.02	0.58
3:N:140:ALA:HB3	3:N:432:TYR:CE1	2.38	0.58
3:N:812:ALA:O	3:N:816:HIS:HB2	2.03	0.58
2:M:184:MET:HB3	2:M:191:PHE:CE1	2.39	0.58
2:M:204:GLN:CD	2:M:228:ALA:HB1	2.24	0.58
1:K:25:LEU:HD22	1:L:225:PHE:HE2	1.60	0.58
3:N:563:PRO:O	3:N:567:ILE:HG12	2.03	0.58
3:D:139:GLY:H	3:D:147:VAL:HG21	1.66	0.58
2:H:174:LEU:HD12	2:H:306:THR:HG22	1.84	0.58
3:N:515:GLU:HG3	3:N:516:ALA:N	2.19	0.58
3:I:411:THR:HG23	3:I:436:GLU:HA	1.85	0.58
3:I:1264:GLU:O	3:I:1266:ARG:HG3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:984:THR:CG2	3:N:987:GLU:H	2.14	0.58
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.03	0.58
3:N:789:LEU:HD13	3:N:934:LEU:HD22	1.86	0.58
4:E:73:LEU:N	4:E:73:LEU:HD12	2.18	0.58
3:D:1293:PHE:HZ	3:D:1302:GLU:OE1	1.86	0.58
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.37	0.58
3:D:1253:THR:O	3:D:1258:ARG:HD3	2.04	0.58
3:D:1481:VAL:HG13	4:E:18:ARG:HD3	1.86	0.58
2:H:36:PRO:C	2:H:39:ARG:HG3	2.21	0.58
2:C:939:ARG:HD3	2:C:982:PRO:HD3	1.86	0.58
2:M:627:ARG:O	2:M:638:ASP:HB3	2.03	0.58
7:Y:11:GLY:O	7:Y:15:LEU:HG	2.04	0.58
3:I:654:LYS:HB3	3:I:655:PRO:CD	2.29	0.58
3:D:1287:GLU:OE1	3:D:1287:GLU:HA	2.04	0.58
1:K:54:THR:HG22	1:K:158:ILE:HD13	1.83	0.58
1:F:175:ARG:HH22	2:H:697:ARG:NH2	2.01	0.58
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.86	0.58
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.86	0.58
3:I:1189:ARG:HG3	3:I:1189:ARG:HH11	1.68	0.58
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.83	0.58
3:D:1156:LEU:CD1	3:D:1176:LYS:HE3	2.33	0.58
3:D:209:ARG:HB3	3:D:389:GLU:CB	2.33	0.58
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	1.86	0.58
2:C:872:ASN:ND2	2:C:874:LEU:HB2	2.19	0.58
3:D:484:PRO:HB3	3:D:488:ARG:NE	2.17	0.58
2:H:332:ARG:HG3	2:H:464:LEU:O	2.03	0.58
2:H:572:ILE:CG2	2:H:703:ILE:HD11	2.32	0.58
3:I:1037:GLN:OE1	3:I:1042:ARG:NH1	2.35	0.58
3:D:1425:THR:O	3:D:1429:LEU:HD13	2.02	0.58
2:H:879:ARG:CZ	7:Y:42:ASP:HB2	2.33	0.58
3:N:728:LEU:HD12	3:N:729:HIS:N	2.18	0.58
2:H:304:LEU:N	2:H:304:LEU:HD23	2.18	0.58
3:D:728:LEU:HD12	3:D:729:HIS:N	2.19	0.58
3:I:1481:VAL:CG1	4:J:18:ARG:HD3	2.33	0.58
7:Y:6:LYS:O	7:Y:106:SER:HB2	2.03	0.58
2:H:12:VAL:HG22	2:H:13:ILE:CG2	2.33	0.58
3:D:115:LEU:HD12	3:D:502:PHE:HE1	1.68	0.58
3:I:1225:ALA:O	3:I:1229:ILE:HG13	2.03	0.58
3:I:853:VAL:HG22	3:I:858:VAL:HG23	1.85	0.58
2:M:18:LEU:CD1	2:M:18:LEU:H	2.15	0.58
2:C:50:GLU:HG2	2:C:51:THR:HG23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.67	0.58
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.86	0.58
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.85	0.58
3:I:889:ALA:HB1	3:I:930:LEU:HA	1.86	0.58
2:H:1078:GLU:HA	2:H:1078:GLU:OE1	2.04	0.58
3:D:208:PRO:HG3	3:D:353:VAL:HG13	1.84	0.58
2:C:127:PHE:CD1	2:C:136:ILE:HD13	2.39	0.58
2:C:242:LEU:HD11	2:C:254:VAL:HB	1.86	0.58
1:G:185:ARG:NH1	3:I:692:GLU:CG	2.66	0.58
2:M:437:ARG:NH2	2:M:488:ALA:CA	2.64	0.58
3:N:189:GLN:HE21	3:N:190:GLU:H	1.51	0.58
3:N:178:LEU:HD11	3:N:191:LEU:CA	2.33	0.58
3:N:204:LEU:HD12	3:N:205:TYR:H	1.69	0.58
3:N:805:GLU:O	3:N:809:PRO:HD2	2.03	0.58
3:D:515:GLU:HG3	3:D:516:ALA:N	2.18	0.58
1:K:79:ILE:HG13	1:K:80:LEU:H	1.68	0.58
1:G:36:LEU:O	1:G:39:PRO:HD2	2.04	0.58
2:C:1070:ILE:HG21	3:D:655:PRO:HB2	1.86	0.58
3:I:1109:GLU:CG	3:I:1201:CYS:HB2	2.33	0.58
1:L:39:PRO:O	1:L:43:ILE:HG12	2.02	0.58
2:M:508:ILE:HG22	2:M:509:ALA:N	2.18	0.58
3:I:983:LEU:HD23	3:I:983:LEU:N	2.18	0.58
2:C:442:GLU:HG2	2:C:454:SER:OG	2.03	0.58
3:D:899:LEU:HD12	3:D:900:ILE:CG2	2.34	0.58
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.85	0.58
7:Y:31:LYS:O	7:Y:35:GLU:HG2	2.04	0.58
2:C:469:THR:OG1	2:C:470:PRO:HD2	2.04	0.58
1:L:115:LEU:HD12	1:L:116:PRO:O	2.03	0.58
1:A:221:HIS:HA	1:A:224:TYR:HD2	1.69	0.58
2:H:224:GLU:HB2	2:H:228:ALA:HB2	1.86	0.58
2:H:872:ASN:ND2	2:H:874:LEU:HB2	2.18	0.58
2:C:191:PHE:CZ	2:C:196:LEU:HB2	2.36	0.58
2:C:26:TYR:HB2	2:C:121:MET:SD	2.44	0.58
3:N:81:THR:HG23	3:N:82:LYS:H	1.62	0.58
3:N:142:LEU:HD22	3:N:145:VAL:C	2.23	0.58
3:N:165:LYS:NZ	3:N:199:LEU:HD22	2.18	0.58
3:N:178:LEU:H	3:N:178:LEU:CD1	2.10	0.58
2:M:1097:LEU:CD1	3:N:1451:ALA:HB2	2.23	0.58
2:C:662:GLU:O	2:C:663:ASN:HB2	2.02	0.58
3:N:1264:GLU:O	3:N:1266:ARG:HG3	2.04	0.58
3:D:814:ALA:HB1	3:D:818:ARG:NH2	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:814:ALA:HB1	3:I:818:ARG:HE	1.67	0.58
1:F:221:HIS:HA	1:F:224:TYR:HD2	1.69	0.58
3:I:515:GLU:HG3	3:I:516:ALA:N	2.18	0.58
3:I:18:ILE:HG23	3:I:518:PRO:HG3	1.85	0.58
3:D:885:ILE:HD13	3:D:885:ILE:N	2.16	0.58
1:G:59:GLU:HG3	1:G:60:ASP:N	2.18	0.58
3:D:970:LYS:HZ2	7:X:113:LEU:HD23	1.67	0.58
3:I:885:ILE:HG23	3:I:937:TYR:CE1	2.39	0.58
3:N:885:ILE:HG23	3:N:937:TYR:CE1	2.39	0.58
3:N:400:VAL:CG2	3:N:443:VAL:HG21	2.34	0.58
2:C:966:LEU:HD21	2:C:986:PRO:HG3	1.85	0.58
3:D:1156:LEU:HD13	3:D:1176:LYS:HE3	1.86	0.58
3:I:1087:ARG:HB2	3:I:1237:THR:HG23	1.86	0.58
3:N:963:TYR:CD2	3:N:1002:LYS:HD3	2.38	0.58
3:N:184:GLU:HA	3:N:184:GLU:OE1	2.02	0.58
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.85	0.58
2:H:627:ARG:O	2:H:638:ASP:HB3	2.04	0.58
3:D:884:ARG:HD3	3:D:888:GLU:OE2	2.04	0.58
2:H:224:GLU:HB3	2:H:228:ALA:HB2	1.85	0.58
2:H:1090:LYS:NZ	3:I:90:MET:SD	2.74	0.58
2:C:140:ILE:HD11	2:C:412:ALA:CA	2.33	0.58
2:M:333:ILE:HG12	2:M:410:ILE:HD11	1.85	0.58
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.84	0.58
2:C:1090:LYS:HE3	3:D:90:MET:SD	2.43	0.58
3:I:205:TYR:HD1	3:I:390:PRO:HB3	1.68	0.58
3:I:136:ASP:HB3	3:I:137:PRO:CD	2.23	0.58
2:M:836:GLY:HA3	2:M:1001:VAL:CG2	2.28	0.58
3:I:470:LEU:HD23	3:I:470:LEU:N	2.18	0.58
1:B:70:GLY:O	1:B:132:LEU:HA	2.03	0.58
3:D:470:LEU:N	3:D:470:LEU:HD23	2.18	0.58
2:M:442:GLU:HG2	2:M:454:SER:OG	2.03	0.58
3:N:879:ARG:HH21	3:N:903:ASP:C	2.07	0.58
3:I:899:LEU:HD12	3:I:900:ILE:CG2	2.34	0.58
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.84	0.58
2:C:984:GLU:CG	3:D:944:THR:O	2.51	0.58
3:I:1148:VAL:O	3:I:1188:VAL:HG23	2.03	0.58
7:Y:128:ALA:HB2	7:Y:140:LEU:HD11	1.86	0.58
3:D:1189:ARG:HH11	3:D:1189:ARG:HG3	1.68	0.58
3:I:702:LEU:O	3:I:713:ILE:HG23	2.04	0.58
2:C:263:ASP:O	2:C:264:PRO:O	2.22	0.58
2:M:851:LYS:HG2	2:M:853:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1468:LEU:HD22	3:N:1470:ARG:CB	2.29	0.58
2:M:273:GLY:HA2	2:M:276:LYS:HD2	1.84	0.58
3:N:1071:PHE:O	3:N:1074:SER:HB3	2.02	0.58
2:H:139:GLN:HE22	2:H:414:GLY:HA3	1.69	0.58
2:C:98:LEU:HD12	2:C:111:ASP:O	2.04	0.58
4:E:15:SER:O	4:E:18:ARG:HB3	2.02	0.58
3:I:638:LYS:HA	3:I:932:ASP:OD1	2.04	0.58
1:A:218:LEU:O	1:A:222:LEU:HD13	2.04	0.58
3:D:885:ILE:HG23	3:D:937:TYR:CE1	2.39	0.58
2:M:63:GLY:CA	2:M:103:LYS:HG2	2.34	0.58
7:X:127:LYS:C	7:X:127:LYS:HD3	2.24	0.58
3:N:987:GLU:OE1	7:Z:120:SER:HB2	2.03	0.58
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.67	0.58
2:M:691:SER:HB2	2:M:858:MET:SD	2.44	0.58
7:Y:30:THR:HG22	7:Y:31:LYS:N	2.18	0.58
2:C:261:ILE:CD1	2:C:262:ALA:H	2.17	0.58
2:M:937:ASP:O	2:M:941:VAL:HG23	2.04	0.58
3:N:474:GLU:O	3:N:478:LEU:HG	2.03	0.58
3:D:1071:PHE:O	3:D:1074:SER:HB3	2.02	0.58
7:Z:137:VAL:C	7:Z:138:LEU:HD23	2.23	0.58
2:C:937:ASP:O	2:C:941:VAL:HG23	2.04	0.58
2:M:25:SER:O	2:M:29:ALA:HB2	2.04	0.58
2:C:211:LEU:CD2	2:C:221:LEU:HD23	2.34	0.58
2:C:328:LEU:HA	2:C:331:ARG:HB2	1.84	0.58
2:M:39:ARG:CG	2:M:45:GLN:NE2	2.67	0.58
3:N:87:ARG:HB2	3:N:524:LEU:CD1	2.33	0.58
2:C:850:ALA:HA	3:D:632:VAL:HG13	1.86	0.58
3:I:412:GLY:HA2	3:I:434:ARG:HD3	1.86	0.58
3:I:795:VAL:HG22	3:I:879:ARG:HH12	1.68	0.58
2:C:374:ASN:N	2:C:374:ASN:ND2	2.51	0.58
1:F:218:LEU:O	1:F:222:LEU:HD13	2.04	0.58
2:H:351:LEU:CD1	2:H:374:ASN:HD22	2.16	0.58
3:I:1137:ARG:HG2	3:I:1141:GLU:OE1	2.04	0.58
2:C:101:ILE:HG23	2:C:108:ILE:HD11	1.84	0.58
2:M:9:ILE:HD13	2:M:907:ASP:HB2	1.86	0.58
3:D:789:LEU:HD13	3:D:934:LEU:HD22	1.86	0.58
3:N:1148:VAL:O	3:N:1188:VAL:HG23	2.04	0.58
2:M:343:GLN:HE21	2:M:346:VAL:HG21	1.69	0.58
1:A:213:GLN:O	1:A:217:ILE:HG13	2.04	0.58
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.34	0.58
2:H:620:LEU:O	2:H:620:LEU:HD12	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:884:ARG:HD3	3:N:888:GLU:OE2	2.04	0.58
3:N:50:PHE:CE2	3:N:522:PRO:CD	2.73	0.57
2:C:1098:ASP:N	3:D:11:ALA:O	2.36	0.57
3:D:134:VAL:CG2	3:D:455:ARG:O	2.51	0.57
3:I:615:ARG:O	3:I:619:LEU:CG	2.47	0.57
2:H:1030:GLN:CD	3:I:628:ARG:HD3	2.20	0.57
3:N:1101:VAL:HG12	3:N:1428:ALA:HB2	1.86	0.57
3:D:618:LEU:HD22	3:D:1463:LYS:HE2	1.85	0.57
3:D:706:PRO:CD	6:Q:16:G:H21	2.12	0.57
2:C:834:GLN:HE22	3:D:724:GLN:CG	2.14	0.57
1:B:211:LEU:O	1:B:215:VAL:HG13	2.02	0.57
2:C:948:GLU:HG2	2:C:955:PRO:HG3	1.85	0.57
1:B:42:ARG:NH1	1:B:42:ARG:HG2	2.17	0.57
2:H:1034:GLU:HG3	2:H:1038:TRP:CZ2	2.38	0.57
2:C:611:ILE:CG1	2:C:625:LEU:HD21	2.34	0.57
2:M:391:LEU:C	2:M:393:GLN:NE2	2.57	0.57
3:N:402:PRO:CA	3:N:443:VAL:HG23	2.33	0.57
2:M:342:ASP:HA	2:M:345:ARG:HD3	1.86	0.57
3:D:1171:VAL:O	3:D:1175:ILE:HG13	2.04	0.57
1:F:50:GLY:O	1:F:146:ARG:HA	2.04	0.57
1:K:50:GLY:O	1:K:146:ARG:HA	2.04	0.57
3:N:55:ASP:O	3:N:56:TYR:HB2	2.04	0.57
3:D:963:TYR:CD2	3:D:1002:LYS:HD3	2.38	0.57
3:D:474:GLU:O	3:D:478:LEU:HG	2.04	0.57
3:D:563:PRO:CA	2:H:223:ASP:HB2	2.29	0.57
3:I:1468:LEU:CD1	3:I:1470:ARG:HE	2.16	0.57
2:H:680:ASP:O	3:I:939:PHE:HB3	2.04	0.57
2:C:194:VAL:HG11	2:C:221:LEU:O	2.04	0.57
2:M:136:ILE:HD12	2:M:136:ILE:N	2.20	0.57
2:C:571:LEU:HD21	2:C:700:TYR:HA	1.85	0.57
3:N:516:ALA:O	3:N:518:PRO:HD3	2.04	0.57
2:M:285:LEU:O	2:M:285:LEU:HD23	2.04	0.57
3:N:631:ILE:HG12	3:N:740:PHE:CE2	2.39	0.57
3:I:812:ALA:O	3:I:816:HIS:HB2	2.04	0.57
3:I:728:LEU:HD12	3:I:729:HIS:N	2.19	0.57
2:H:939:ARG:HD3	2:H:982:PRO:HD3	1.86	0.57
7:Y:6:LYS:C	7:Y:7:LEU:HD23	2.25	0.57
3:I:879:ARG:HH21	3:I:903:ASP:C	2.07	0.57
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.86	0.57
2:H:953:VAL:HG11	2:H:962:GLN:HB3	1.85	0.57
2:M:953:VAL:HG11	2:M:962:GLN:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1032:PHE:O	2:M:1033:GLY:O	2.22	0.57
2:H:242:LEU:HD13	2:H:254:VAL:HG11	1.86	0.57
2:H:442:GLU:HG2	2:H:454:SER:OG	2.03	0.57
3:I:1041:LEU:HD12	3:I:1058:ARG:HA	1.85	0.57
2:M:580:MET:HE2	2:M:902:ILE:HG12	1.86	0.57
3:I:102:ILE:CD1	3:I:106:LYS:HB2	2.33	0.57
3:D:1021:TYR:CE2	3:D:1025:GLN:HG2	2.39	0.57
3:N:1171:VAL:O	3:N:1175:ILE:HG13	2.04	0.57
2:H:873:PRO:HB3	3:I:949:ILE:CD1	2.33	0.57
2:C:418:LEU:HD12	2:C:418:LEU:N	2.18	0.57
2:M:328:LEU:C	2:M:330:ASN:H	2.07	0.57
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.85	0.57
3:N:1481:VAL:CG1	4:O:18:ARG:HD3	2.35	0.57
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.39	0.57
2:H:328:LEU:H	2:H:433:THR:HG21	1.70	0.57
3:N:705:ALA:HB2	6:U:16:G:O2'	2.03	0.57
3:D:631:ILE:HG12	3:D:740:PHE:CE2	2.39	0.57
1:B:39:PRO:O	1:B:43:ILE:HG12	2.05	0.57
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.86	0.57
1:L:38:ASN:O	1:L:42:ARG:HG3	2.04	0.57
7:Z:115:THR:HB	7:Z:116:PRO:CD	2.32	0.57
3:I:1344:VAL:O	3:I:1348:LEU:HD13	2.04	0.57
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.34	0.57
3:N:55:ASP:OD1	3:N:55:ASP:N	2.37	0.57
2:H:221:LEU:C	2:H:223:ASP:N	2.57	0.57
3:N:153:LEU:HD13	3:N:158:TYR:HB2	1.85	0.57
2:M:575:GLN:NE2	2:M:670:GLN:OE1	2.38	0.57
2:C:660:ALA:CB	2:C:667:ALA:O	2.37	0.57
3:I:465:LEU:HD22	3:I:510:GLU:HA	1.86	0.57
3:N:982:PHE:HD2	3:N:982:PHE:H	1.52	0.57
3:I:806:PHE:CE1	3:I:813:LEU:HB3	2.39	0.57
2:H:948:GLU:HG2	2:H:955:PRO:HG3	1.85	0.57
2:M:1056:LYS:HB3	3:N:623:VAL:HG13	1.86	0.57
3:N:433:GLY:CA	3:N:447:VAL:O	2.53	0.57
4:O:36:LYS:NZ	4:O:45:ARG:HH22	2.03	0.57
3:D:111:LYS:CG	3:D:1452:ILE:HG12	2.35	0.57
1:K:221:HIS:HA	1:K:224:TYR:HD2	1.69	0.57
2:H:966:LEU:HD21	2:H:986:PRO:HG3	1.85	0.57
1:F:213:GLN:O	1:F:217:ILE:HG13	2.04	0.57
3:D:832:ARG:HA	3:D:832:ARG:CZ	2.34	0.57
3:N:832:ARG:HA	3:N:832:ARG:CZ	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:836:GLY:HA3	2:C:1001:VAL:HG21	1.86	0.57
2:M:24:GLU:OE2	2:M:27:ARG:HD2	2.05	0.57
1:F:31:GLY:H	1:F:193:ASP:CG	2.07	0.57
3:D:355:VAL:CG1	3:D:359:ALA:HB3	2.34	0.57
2:H:687:ALA:HB1	2:H:850:ALA:HB2	1.85	0.57
2:C:212:GLY:O	2:C:214:TYR:N	2.38	0.57
2:M:368:THR:HG22	2:M:369:PRO:HD3	1.86	0.57
3:I:87:ARG:HA	3:I:87:ARG:NH1	2.19	0.57
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.05	0.57
3:N:156:GLU:O	3:N:160:GLU:HB2	2.05	0.57
3:N:387:LEU:H	3:N:387:LEU:CD1	2.08	0.57
1:B:197:LEU:O	1:B:197:LEU:HD23	2.05	0.57
2:C:1008:ARG:HH22	2:C:1011:GLY:C	2.07	0.57
6:U:15:G:H2'	6:U:16:G:H5'	1.85	0.57
1:A:215:VAL:HG13	1:B:222:LEU:HD22	1.84	0.57
3:I:400:VAL:HG12	3:I:402:PRO:HD3	1.87	0.57
3:N:433:GLY:HA3	3:N:447:VAL:O	2.04	0.57
2:M:94:LEU:HD12	2:M:94:LEU:C	2.25	0.57
2:C:627:ARG:O	2:C:638:ASP:HB3	2.03	0.57
3:I:832:ARG:CZ	3:I:832:ARG:HA	2.35	0.57
1:K:32:PHE:HZ	1:L:47:SER:HB2	1.70	0.57
3:N:1422:MET:CE	3:N:1427:SER:HA	2.34	0.57
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.04	0.57
3:D:165:LYS:HZ2	3:D:199:LEU:HD22	1.69	0.57
3:D:355:VAL:HG13	3:D:359:ALA:HB3	1.85	0.57
2:H:207:LEU:HD22	2:H:221:LEU:HD13	1.87	0.57
2:M:367:LEU:CB	2:M:371:LYS:HG2	2.33	0.57
2:M:39:ARG:HG2	2:M:45:GLN:NE2	2.16	0.57
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.05	0.57
2:M:332:ARG:C	2:M:333:ILE:HD12	2.25	0.57
2:M:83:CYS:SG	2:M:90:TYR:CD2	2.98	0.57
3:D:1052:THR:HG22	7:X:57:ARG:NH1	2.11	0.57
1:G:112:ARG:CG	1:G:125:PRO:CB	2.80	0.57
3:D:158:TYR:CE1	3:D:162:ARG:HB3	2.40	0.57
3:D:1205:TYR:HD2	3:D:1215:VAL:HG21	1.67	0.57
3:D:1256:LEU:O	3:D:1260:ILE:HG13	2.04	0.57
2:C:80:GLN:HA	2:C:90:TYR:CD2	2.40	0.57
3:N:1292:VAL:CG2	3:N:1305:LEU:HG	2.31	0.57
3:N:1312:LEU:HD11	3:N:1327:ARG:HH21	1.67	0.57
2:H:52:PHE:CG	2:H:68:PHE:HB2	2.40	0.57
3:D:516:ALA:O	3:D:518:PRO:HD3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:638:LYS:HD3	3:N:932:ASP:HB3	1.85	0.57
1:A:68:ILE:O	1:A:71:VAL:HB	2.03	0.57
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.86	0.57
3:D:1109:GLU:HG3	3:D:1217:ILE:HD12	1.87	0.57
1:L:85:LEU:HD12	1:L:86:VAL:H	1.70	0.57
3:I:1372:VAL:HA	3:I:1375:MET:CE	2.34	0.57
3:D:1277:ILE:O	3:D:1294:VAL:HG11	2.04	0.57
2:H:595:LEU:HD23	2:H:655:LEU:HB2	1.87	0.57
3:I:1147:ARG:O	3:I:1165:TYR:HA	2.05	0.57
2:M:1008:ARG:NH1	2:M:1010:THR:HA	2.19	0.57
2:C:9:ILE:HG13	2:C:9:ILE:O	2.04	0.57
2:H:516:ARG:HG3	3:I:1068:LEU:HD11	1.87	0.57
2:M:1043:TYR:CE1	3:N:710:ARG:O	2.57	0.57
1:A:50:GLY:O	1:A:146:ARG:HA	2.04	0.57
4:J:70:THR:OG1	4:J:72:ARG:HG2	2.05	0.57
3:D:1291:SER:HB2	3:D:1293:PHE:CE1	2.39	0.57
3:D:702:LEU:O	3:D:713:ILE:HG23	2.04	0.57
3:N:702:LEU:O	3:N:713:ILE:HG23	2.04	0.57
1:K:213:GLN:O	1:K:217:ILE:HG13	2.04	0.57
2:H:200:LEU:HD13	2:H:300:ASP:OD1	2.04	0.57
2:M:111:ASP:CG	2:M:369:PRO:CG	2.70	0.57
2:M:144:PRO:O	2:M:276:LYS:HD3	2.04	0.57
3:N:199:LEU:HD23	3:N:200:ASP:N	2.19	0.57
4:J:24:ALA:O	4:J:27:ALA:N	2.38	0.57
1:B:62:LEU:CD1	1:B:62:LEU:H	1.97	0.57
2:H:29:ALA:O	2:H:43:GLY:HA3	2.05	0.57
2:M:118:ILE:HD12	2:M:118:ILE:O	2.05	0.57
2:C:36:PRO:HA	2:C:39:ARG:CG	2.33	0.57
3:I:1384:PRO:CG	3:I:1389:LEU:HB3	2.33	0.57
3:I:980:MET:CB	3:I:982:PHE:CE2	2.88	0.57
2:M:1038:TRP:NE1	3:N:1099:VAL:HG11	2.20	0.57
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.85	0.57
3:N:102:ILE:CD1	3:N:106:LYS:HB2	2.34	0.57
2:C:172:ILE:HD12	2:C:172:ILE:N	2.20	0.57
2:C:1078:GLU:HA	2:C:1078:GLU:OE1	2.04	0.57
2:M:1042:ALA:HB2	3:N:1223:ILE:CG2	2.34	0.57
2:H:674:VAL:HG12	2:H:990:GLY:O	2.04	0.57
3:I:1198:TYR:OH	3:I:1394:VAL:HG11	2.05	0.57
2:M:728:HIS:O	2:M:729:LEU:HD22	2.04	0.57
3:I:884:ARG:HD3	3:I:888:GLU:OE2	2.04	0.57
3:I:1169:ASP:O	3:I:1172:HIS:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:204:LEU:HD13	3:D:441:ARG:NH1	2.20	0.57
3:D:351:MET:HA	3:D:370:ALA:HB2	1.87	0.57
2:H:204:GLN:CD	2:H:228:ALA:HB1	2.25	0.57
2:H:685:GLU:OE2	7:Y:41:ASP:HB2	2.05	0.57
2:M:129:ILE:CD1	2:M:134:ARG:HB2	2.35	0.57
3:N:88:TYR:N	3:N:88:TYR:HD2	2.01	0.57
2:C:851:LYS:HG2	2:C:853:LEU:HD12	1.85	0.57
3:I:438:ASP:CG	3:I:441:ARG:NH2	2.58	0.57
3:D:1144:LEU:HD22	3:D:1166:LEU:HD11	1.87	0.57
3:D:129:PHE:CZ	3:D:587:ARG:CD	2.87	0.57
2:H:52:PHE:HB3	2:H:53:PRO:HD3	1.86	0.57
2:H:443:THR:HG21	3:I:1078:ARG:CD	2.35	0.57
3:I:631:ILE:HG12	3:I:740:PHE:CE2	2.39	0.57
3:I:729:HIS:CE1	3:I:730:PRO:HG2	2.40	0.57
3:I:1106:VAL:CG1	3:I:1107:VAL:H	2.15	0.57
1:L:57:TYR:CD2	1:L:161:ARG:HG2	2.39	0.57
3:I:982:PHE:H	3:I:982:PHE:HD2	1.52	0.57
3:N:625:TYR:HB3	3:N:749:VAL:CG2	2.30	0.57
3:D:481:MET:HE2	3:D:493:ARG:HA	1.85	0.57
2:H:374:ASN:N	2:H:374:ASN:HD22	1.99	0.57
2:C:338:GLU:HA	2:C:341:THR:CG2	2.35	0.57
3:N:1110:ALA:O	3:N:1111:ASP:C	2.42	0.57
1:B:206:THR:HG23	1:B:208:LEU:N	2.20	0.57
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.18	0.57
1:K:218:LEU:O	1:K:222:LEU:HD13	2.04	0.57
3:N:138:LYS:H	3:N:138:LYS:HD3	1.69	0.57
3:I:474:GLU:O	3:I:478:LEU:HG	2.03	0.57
3:D:671:LYS:O	3:D:675:ARG:HG3	2.05	0.57
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.87	0.57
2:M:186:VAL:O	2:M:186:VAL:HG23	2.04	0.57
2:M:22:GLN:NE2	2:M:336:VAL:CG2	2.68	0.57
2:H:309:TYR:O	2:H:313:LEU:HD12	2.01	0.57
3:N:167:GLU:OE2	3:N:198:ARG:HB2	2.04	0.57
3:N:178:LEU:HD11	3:N:191:LEU:HA	1.86	0.57
2:H:265:ARG:HG2	2:H:267:TYR:CD1	2.38	0.57
2:C:575:GLN:NE2	2:C:670:GLN:OE1	2.38	0.57
2:H:579:VAL:HB	2:H:890:LEU:HD22	1.87	0.57
3:D:812:ALA:O	3:D:816:HIS:HB2	2.04	0.57
3:I:41:ARG:O	3:I:42:ASP:CB	2.53	0.57
3:N:1326:THR:CG2	3:N:1327:ARG:H	2.18	0.57
3:N:729:HIS:CE1	3:N:730:PRO:HG2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1029:GLY:O	3:I:622:ARG:NE	2.37	0.57
2:C:675:ALA:HA	2:C:989:VAL:CG1	2.29	0.57
3:I:140:ALA:HB3	3:I:432:TYR:CE1	2.39	0.57
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.19	0.57
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.39	0.57
2:H:555:ALA:HA	3:I:1070:TYR:OH	2.04	0.57
3:D:111:LYS:HG3	3:D:1452:ILE:HG12	1.87	0.57
7:X:91:LEU:HB3	7:X:149:PHE:HB3	1.87	0.57
3:N:1169:ASP:O	3:N:1172:HIS:HB2	2.05	0.57
7:Z:91:LEU:HB3	7:Z:149:PHE:HB3	1.87	0.57
3:N:1498:ALA:HB2	4:O:88:GLU:OE1	2.05	0.57
3:D:166:GLN:NE2	3:D:396:VAL:HG12	2.19	0.57
3:D:52:PRO:CA	3:D:86:ARG:HD3	2.35	0.57
3:N:671:LYS:O	3:N:675:ARG:CG	2.52	0.57
2:M:334:ARG:HA	2:M:338:GLU:OE2	2.04	0.57
2:H:334:ARG:HG2	2:H:338:GLU:OE1	2.05	0.57
3:N:1453:ALA:O	3:N:1455:LYS:N	2.38	0.57
3:I:1437:ALA:HB1	3:I:1446:VAL:CG2	2.34	0.57
3:I:624:ASP:O	3:I:625:TYR:HB2	2.04	0.57
3:I:696:HIS:NE2	4:J:54:LEU:HD11	2.20	0.57
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.05	0.57
2:M:274:ARG:HD2	2:M:285:LEU:HD13	1.87	0.57
1:G:197:LEU:HD23	1:G:197:LEU:O	2.05	0.57
3:N:368:VAL:HB	3:N:377:VAL:HB	1.85	0.57
3:I:789:LEU:HD13	3:I:934:LEU:HD22	1.85	0.57
2:H:862:PRO:HG2	2:H:925:TYR:OH	2.05	0.57
2:M:948:GLU:HG2	2:M:955:PRO:HG3	1.85	0.57
2:H:12:VAL:HG22	2:H:13:ILE:HG22	1.87	0.57
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.70	0.57
2:H:397:GLU:HG2	2:H:403:SER:HB3	1.87	0.57
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.20	0.57
7:Z:107:PRO:HA	7:Z:120:SER:OG	2.04	0.57
3:I:881:LEU:HD11	3:I:885:ILE:HD11	1.86	0.57
3:N:1344:VAL:O	3:N:1348:LEU:HD13	2.04	0.57
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.34	0.57
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.87	0.57
1:B:71:VAL:HG13	1:B:132:LEU:CD1	2.35	0.57
2:M:443:THR:HG21	3:N:1078:ARG:CD	2.35	0.57
2:M:95:TYR:HB3	2:M:114:PHE:HA	1.87	0.57
3:N:899:LEU:HD12	3:N:900:ILE:CG2	2.34	0.57
1:B:150:TYR:CE1	1:B:170:VAL:HG12	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:103:GLN:NE2	7:X:105:VAL:HG13	2.18	0.57
3:D:879:ARG:HH21	3:D:903:ASP:C	2.07	0.57
3:D:1041:LEU:HD12	3:D:1058:ARG:HA	1.85	0.57
2:C:9:ILE:HD13	2:C:907:ASP:HB2	1.86	0.57
4:J:22:VAL:HG12	4:J:68:LEU:HD21	1.87	0.57
1:F:151:VAL:HB	1:F:169:ALA:HB3	1.86	0.57
3:D:538:SER:HB3	3:D:541:ASN:HD22	1.70	0.57
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.87	0.57
3:I:1402:ALA:HB2	3:I:1415:VAL:CG2	2.35	0.57
1:F:26:GLU:OE2	1:F:194:LYS:HE3	2.05	0.57
3:D:349:PRO:HB3	2:H:274:ARG:CZ	2.35	0.56
3:D:159:ARG:NH2	2:H:208:ALA:HB1	2.21	0.56
2:C:332:ARG:C	2:C:333:ILE:HD12	2.25	0.56
3:I:131:LYS:HB2	3:I:568:ARG:NH1	2.20	0.56
3:N:970:LYS:HZ1	7:Z:113:LEU:CA	2.15	0.56
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.19	0.56
3:N:86:ARG:HD3	3:N:523:ASP:OD2	2.02	0.56
3:N:393:ILE:N	3:N:393:ILE:HD12	2.20	0.56
2:C:588:VAL:CG1	2:C:661:SER:HB3	2.35	0.56
2:M:579:VAL:HB	2:M:890:LEU:HD22	1.87	0.56
3:N:980:MET:CB	3:N:982:PHE:CE2	2.88	0.56
2:H:564:MET:CE	2:H:846:LYS:CD	2.82	0.56
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.29	0.56
1:B:56:VAL:HG21	1:B:82:LEU:CD1	2.34	0.56
2:M:654:LEU:N	2:M:654:LEU:HD23	2.17	0.56
3:N:465:LEU:HD22	3:N:510:GLU:HA	1.86	0.56
2:M:473:ARG:HD3	2:M:531:PHE:CZ	2.40	0.56
3:N:1280:VAL:HG22	3:N:1295:GLU:O	2.04	0.56
7:Z:5:VAL:HG23	7:Z:71:ARG:NH1	2.19	0.56
1:B:179:PHE:H	1:B:179:PHE:HD2	1.53	0.56
3:N:693:GLU:HA	4:O:48:MET:HE1	1.87	0.56
2:H:937:ASP:O	2:H:941:VAL:HG23	2.04	0.56
2:M:593:ALA:HB1	2:M:659:PRO:HD2	1.87	0.56
3:I:123:LEU:HD12	3:I:152:LEU:HD11	1.86	0.56
2:M:22:GLN:NE2	2:M:136:ILE:O	2.38	0.56
3:D:1235:GLN:HB3	7:X:52:LYS:HZ1	1.70	0.56
3:D:1094:LEU:HG	3:D:1098:LEU:CD1	2.35	0.56
2:C:77:PRO:HD3	2:C:93:PRO:HD3	1.86	0.56
2:H:445:GLU:HG3	2:H:560:MET:CE	2.34	0.56
3:D:574:LEU:O	3:D:578:VAL:HG23	2.05	0.56
2:M:545:ASN:OD1	2:M:905:ILE:HG13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:59:ASN:HB3	4:J:62:THR:OG1	2.05	0.56
2:H:1060:ILE:O	2:H:1060:ILE:HG13	2.04	0.56
2:M:26:TYR:HA	2:M:29:ALA:HB3	1.88	0.56
1:F:31:GLY:N	1:F:193:ASP:OD1	2.29	0.56
2:C:742:VAL:HG12	2:C:743:VAL:N	2.21	0.56
3:I:671:LYS:O	3:I:675:ARG:HG3	2.05	0.56
2:H:559:LEU:C	2:H:559:LEU:HD23	2.25	0.56
3:D:441:ARG:NH1	3:D:445:ARG:NH1	2.53	0.56
3:D:441:ARG:HB2	3:D:443:VAL:HG12	1.87	0.56
3:D:165:LYS:HD2	3:D:165:LYS:O	2.05	0.56
3:D:180:LYS:HG2	3:D:183:GLU:OE1	2.04	0.56
3:N:970:LYS:HZ3	7:Z:113:LEU:HD23	0.74	0.56
3:N:996:TRP:HA	3:N:999:THR:HG22	1.87	0.56
2:M:52:PHE:CE1	2:M:67:ASP:C	2.79	0.56
3:D:520:LEU:HD12	3:D:521:PRO:CD	2.31	0.56
3:N:676:MET:O	3:N:680:GLN:HB2	2.03	0.56
2:M:140:ILE:HD11	2:M:331:ARG:NH2	2.11	0.56
2:M:140:ILE:HD13	2:M:331:ARG:NE	2.20	0.56
2:H:313:LEU:CG	2:H:320:HIS:HE1	2.12	0.56
2:H:267:TYR:CE2	2:H:289:THR:HG23	2.40	0.56
3:D:452:ILE:CD1	3:D:452:ILE:N	2.68	0.56
1:L:79:ILE:HD12	1:L:83:LYS:HE2	1.87	0.56
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.34	0.56
3:D:1344:VAL:O	3:D:1348:LEU:HD13	2.04	0.56
3:I:1209:LEU:HD21	4:J:16:LYS:HZ1	1.69	0.56
2:H:2:GLU:O	2:H:899:GLN:CB	2.53	0.56
4:E:10:PHE:CE1	4:E:16:LYS:HG3	2.41	0.56
2:H:171:TRP:C	2:H:172:ILE:HD12	2.25	0.56
2:M:565:GLN:NE2	2:M:842:ARG:CG	2.61	0.56
2:C:73:LEU:CD2	2:C:118:ILE:HD11	2.36	0.56
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.06	0.56
2:M:317:VAL:CG1	2:M:320:HIS:CE1	2.85	0.56
3:D:704:ARG:HH12	3:D:743:ASP:CG	2.09	0.56
2:H:455:LEU:CD1	2:H:456:ALA:O	2.54	0.56
7:Y:7:LEU:CD2	7:Y:72:ALA:HB1	2.32	0.56
3:I:1109:GLU:HG2	3:I:1201:CYS:HB2	1.86	0.56
1:K:35:THR:HG23	1:L:39:PRO:HA	1.87	0.56
3:D:102:ILE:HD12	3:D:586:ARG:HG3	1.88	0.56
2:C:455:LEU:CD1	2:C:456:ALA:O	2.54	0.56
1:B:56:VAL:CG2	1:B:142:VAL:HG12	2.32	0.56
4:O:47:LYS:N	4:O:54:LEU:HD13	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:285:LEU:HD21	2:C:287:GLY:O	2.05	0.56
3:I:970:LYS:HG2	3:I:995:LEU:HD13	1.87	0.56
3:I:1485:GLN:NE2	4:J:80:VAL:H	2.03	0.56
2:C:443:THR:HG21	3:D:1078:ARG:NE	2.20	0.56
2:C:342:ASP:HA	2:C:345:ARG:HD3	1.86	0.56
2:M:175:GLU:O	2:M:183:SER:N	2.36	0.56
2:H:516:ARG:NH1	2:H:521:PRO:HB3	2.20	0.56
3:N:546:ARG:HG2	3:N:546:ARG:NH1	2.20	0.56
3:I:1171:VAL:O	3:I:1175:ILE:HG13	2.04	0.56
4:J:40:LEU:O	4:J:40:LEU:HD12	2.06	0.56
4:O:37:ASN:HD22	4:O:37:ASN:N	2.02	0.56
1:K:117:VAL:HG12	1:K:120:VAL:HG12	1.88	0.56
2:H:742:VAL:HG12	2:H:743:VAL:N	2.20	0.56
1:A:115:LEU:HD12	1:A:116:PRO:HD2	1.87	0.56
3:I:1299:PHE:HD2	3:I:1299:PHE:H	1.53	0.56
3:I:1422:MET:CE	3:I:1427:SER:HA	2.35	0.56
3:I:50:PHE:HA	3:I:89:ARG:HG2	1.86	0.56
3:I:521:PRO:HD2	3:I:524:LEU:HD13	1.87	0.56
2:C:267:TYR:OH	2:C:289:THR:HG22	2.05	0.56
2:C:332:ARG:CZ	2:C:464:LEU:HG	2.35	0.56
2:M:52:PHE:CE2	2:M:98:LEU:HG	2.40	0.56
2:M:689:VAL:HB	2:M:870:ILE:CG1	2.28	0.56
3:N:783:ARG:CZ	7:Z:41:ASP:CB	2.78	0.56
3:N:179:VAL:HG13	3:N:183:GLU:HB3	1.88	0.56
3:N:432:TYR:HB3	3:N:450:TYR:CB	2.36	0.56
2:H:139:GLN:OE1	2:H:334:ARG:NH1	2.35	0.56
2:H:139:GLN:HB3	2:H:334:ARG:HD3	1.87	0.56
2:H:1088:LEU:HD21	3:I:614:PHE:CE1	2.39	0.56
3:N:26:VAL:HG23	3:N:93:ILE:HG12	1.86	0.56
1:L:197:LEU:HD23	1:L:197:LEU:O	2.05	0.56
2:M:579:VAL:CG1	2:M:887:GLU:HG3	2.31	0.56
7:Z:89:VAL:HG22	7:Z:154:ILE:HG23	1.88	0.56
2:M:115:LEU:CD2	2:M:115:LEU:N	2.65	0.56
1:K:66:SER:O	1:K:75:VAL:HG23	2.05	0.56
2:M:1054:THR:O	2:M:1056:LYS:N	2.38	0.56
3:D:550:ARG:HD3	3:D:573:MET:HB3	1.88	0.56
3:I:1364:HIS:CE1	3:I:1366:LYS:HG3	2.39	0.56
2:H:580:MET:HE2	2:H:902:ILE:HG12	1.87	0.56
4:J:37:ASN:ND2	4:J:37:ASN:N	2.53	0.56
2:C:50:GLU:HG2	2:C:51:THR:N	2.20	0.56
3:I:1140:ILE:CG2	3:I:1144:LEU:HD12	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:HG23	1:L:208:LEU:N	2.20	0.56
7:Y:103:GLN:HE21	7:Y:105:VAL:CG1	2.19	0.56
2:H:178:PRO:O	2:H:180:GLY:N	2.37	0.56
2:H:722:ILE:HG23	2:H:722:ILE:O	2.06	0.56
2:M:1063:ARG:HD2	2:M:1063:ARG:O	2.06	0.56
4:O:85:LEU:HD23	4:O:85:LEU:C	2.26	0.56
2:M:559:LEU:C	2:M:559:LEU:HD23	2.26	0.56
2:H:253:ALA:O	2:H:256:TYR:HB3	2.06	0.56
2:M:279:GLU:HG3	2:M:280:LYS:N	2.20	0.56
3:D:685:ASP:O	3:D:689:ASP:N	2.35	0.56
2:C:1095:LEU:HD11	2:C:1097:LEU:CB	2.28	0.56
2:C:1097:LEU:HD11	3:D:1451:ALA:HA	1.87	0.56
3:D:118:LEU:O	3:D:119:SER:C	2.43	0.56
3:D:1443:THR:O	3:D:1447:LEU:HD13	2.05	0.56
3:D:632:VAL:HG23	3:D:725:SER:HB2	1.87	0.56
2:C:680:ASP:O	3:D:939:PHE:HB3	2.05	0.56
3:N:454:ALA:O	3:N:455:ARG:HG2	2.06	0.56
2:H:266:ARG:HA	2:H:288:ARG:CD	2.18	0.56
3:N:111:LYS:HD3	3:N:1448:THR:CG2	2.35	0.56
2:C:654:LEU:HD13	2:C:663:ASN:C	2.26	0.56
3:I:137:PRO:CD	3:I:453:ASP:HB2	2.36	0.56
4:J:26:ARG:NH1	4:J:73:LEU:HD21	2.19	0.56
2:H:31:GLN:NE2	2:H:71:TYR:OH	2.38	0.56
3:I:639:LEU:HD12	3:I:640:HIS:N	2.20	0.56
3:I:743:ASP:OD1	6:S:16:G:O3'	2.24	0.56
3:D:731:LEU:HD22	3:D:779:ALA:O	2.05	0.56
2:H:88:LEU:HD13	2:H:89:THR:H	1.69	0.56
3:I:421:LEU:HB2	3:I:427:VAL:HG12	1.87	0.56
4:O:6:ILE:HD11	4:O:10:PHE:CE2	2.40	0.56
3:N:798:GLU:HG2	3:N:799:LYS:H	1.69	0.56
3:N:1493:LYS:HA	3:N:1493:LYS:NZ	2.21	0.56
1:G:48:ILE:HD12	1:G:48:ILE:N	2.20	0.56
7:X:7:LEU:HD13	7:X:15:LEU:HD12	1.85	0.56
3:I:564:GLU:C	3:I:566:ILE:N	2.57	0.56
4:E:37:ASN:HD22	4:E:37:ASN:N	2.03	0.56
1:F:117:VAL:HG12	1:F:120:VAL:HG12	1.88	0.56
5:R:21:DC:N3	6:S:10:G:O6	2.38	0.56
3:D:168:THR:CG2	3:D:169:TYR:H	2.16	0.56
3:N:127:LEU:HD23	3:N:134:VAL:CG1	2.36	0.56
2:M:831:ARG:HH12	2:M:1002:GLU:CB	2.19	0.56
3:D:1102:THR:HA	3:D:1105:ILE:CD1	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.87	0.56
3:N:639:LEU:HD12	3:N:640:HIS:N	2.21	0.56
2:H:794:PRO:HG2	2:H:1025:ALA:CA	2.34	0.56
3:I:606:ILE:HG13	3:I:613:ARG:CG	2.35	0.56
2:M:79:PRO:CG	2:M:82:GLU:HG3	2.35	0.56
2:C:516:ARG:NH1	2:C:521:PRO:HB3	2.19	0.56
3:D:970:LYS:HG2	3:D:995:LEU:HD13	1.87	0.56
3:D:911:LEU:O	3:D:915:VAL:HG23	2.06	0.56
2:C:524:VAL:HG12	2:C:525:SER:H	1.69	0.56
2:H:1048:THR:HG21	3:I:763:MET:HE3	1.87	0.56
7:Z:58:ILE:HG22	7:Z:62:ILE:HD13	1.86	0.56
2:H:298:PHE:N	2:H:298:PHE:CD1	2.73	0.56
2:M:742:VAL:HG12	2:M:743:VAL:N	2.20	0.56
3:D:165:LYS:HZ1	3:D:199:LEU:HD22	1.70	0.56
3:I:520:LEU:HD12	3:I:521:PRO:HD2	1.87	0.56
2:C:224:GLU:HB3	2:C:228:ALA:H	1.70	0.56
3:N:678:GLU:OE1	3:N:679:ARG:N	2.39	0.56
3:N:87:ARG:HB2	3:N:524:LEU:HD11	1.87	0.56
2:M:1097:LEU:CD1	3:N:1451:ALA:CB	2.83	0.56
2:M:1095:LEU:HD11	2:M:1097:LEU:HD23	1.87	0.56
2:H:1095:LEU:HD11	2:H:1097:LEU:HD23	1.88	0.56
3:D:1083:ASP:O	3:D:1087:ARG:HB3	2.05	0.56
2:H:328:LEU:HB2	2:H:488:ALA:CB	2.36	0.56
2:H:897:LEU:HD21	2:H:921:ALA:CA	2.36	0.56
4:E:18:ARG:O	4:E:22:VAL:HG23	2.06	0.56
7:Z:89:VAL:HG12	7:Z:90:GLU:N	2.19	0.56
3:N:731:LEU:HD22	3:N:779:ALA:O	2.05	0.56
1:A:42:ARG:NH2	1:B:31:GLY:O	2.38	0.56
1:G:177:VAL:HG12	1:G:199:ILE:HD12	1.88	0.56
3:I:1161:GLU:OE2	3:I:1164:ARG:CD	2.50	0.56
3:D:729:HIS:CE1	3:D:730:PRO:HG2	2.40	0.56
2:C:503:LEU:HD23	2:C:507:ARG:C	2.26	0.56
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.05	0.56
3:I:516:ALA:O	3:I:518:PRO:HD3	2.05	0.56
1:B:152:PRO:HG3	3:D:857:ILE:HG13	1.88	0.56
7:Y:91:LEU:HD11	7:Y:129:LEU:HD21	1.88	0.56
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.88	0.56
3:N:470:LEU:N	3:N:470:LEU:HD23	2.18	0.56
1:G:48:ILE:HD12	1:G:48:ILE:H	1.70	0.56
3:D:1007:VAL:HG11	3:D:1039:CYS:HB2	1.86	0.56
3:I:1166:LEU:N	3:I:1166:LEU:HD23	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1043:TYR:CD2	3:N:710:ARG:HD2	2.40	0.56
3:I:705:ALA:HB1	3:I:706:PRO:HD3	1.88	0.56
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.20	0.56
2:C:559:LEU:C	2:C:559:LEU:HD23	2.26	0.56
3:N:1402:ALA:HB2	3:N:1415:VAL:CG2	2.35	0.56
3:N:215:TYR:HE2	3:N:343:LYS:HB2	1.70	0.56
3:D:160:GLU:HG2	3:D:165:LYS:HB2	1.85	0.56
2:C:136:ILE:CD1	2:C:136:ILE:N	2.68	0.56
2:C:139:GLN:HB3	2:C:334:ARG:HB2	1.88	0.56
3:D:119:SER:CB	3:D:123:LEU:H	2.18	0.56
2:H:313:LEU:HB3	2:H:320:HIS:CE1	2.41	0.56
2:M:30:LEU:C	2:M:30:LEU:HD12	2.20	0.56
3:N:141:ILE:HG13	3:N:448:GLU:OE2	2.06	0.56
2:M:701:THR:HG23	2:M:832:LYS:HA	1.88	0.56
2:H:1095:LEU:HD11	2:H:1097:LEU:CB	2.28	0.56
3:D:158:TYR:CE1	3:D:162:ARG:CB	2.89	0.56
3:D:1468:LEU:CD2	3:D:1470:ARG:HD3	2.36	0.56
2:M:544:THR:O	2:M:547:ILE:HD13	2.06	0.56
7:Z:83:ILE:HG13	7:Z:154:ILE:HD13	1.87	0.56
3:N:421:LEU:HB2	3:N:427:VAL:HG12	1.87	0.56
1:K:42:ARG:NH1	1:L:34:VAL:CG1	2.69	0.56
3:D:638:LYS:HD3	3:D:932:ASP:HB3	1.87	0.56
3:I:18:ILE:CG2	3:I:518:PRO:HG3	2.36	0.56
3:I:1111:ASP:CG	3:I:1203:LYS:HD2	2.26	0.56
3:D:980:MET:CB	3:D:982:PHE:CE2	2.88	0.56
3:D:26:VAL:HG23	3:D:93:ILE:HG12	1.86	0.56
3:I:862:ASP:O	3:I:877:PRO:HD3	2.06	0.56
2:C:64:LEU:CB	2:C:359:MET:HG3	2.35	0.56
1:B:20:TYR:CD2	1:B:21:GLY:N	2.74	0.56
3:I:1140:ILE:HG22	3:I:1144:LEU:HD12	1.86	0.56
3:I:26:VAL:HG23	3:I:93:ILE:HG12	1.86	0.56
3:N:1487:VAL:HG12	3:N:1488:ASP:H	1.69	0.56
3:D:1168:MET:HA	3:D:1168:MET:HE3	1.87	0.56
2:M:500:ASN:HD22	2:M:500:ASN:N	2.02	0.56
7:Z:78:GLY:O	7:Z:156:GLY:HA2	2.06	0.56
1:B:92:PRO:HA	1:B:146:ARG:HH12	1.70	0.56
2:M:1078:GLU:HA	2:M:1078:GLU:OE1	2.04	0.56
3:D:160:GLU:HG3	3:D:165:LYS:HE3	1.88	0.56
2:C:196:LEU:HD22	2:C:303:PHE:CD2	2.39	0.56
2:M:111:ASP:HB2	2:M:369:PRO:HG2	1.78	0.56
2:M:36:PRO:HG2	2:M:70:GLU:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:180:LYS:HZ1	3:N:386:HIS:HA	1.71	0.56
3:N:167:GLU:CD	3:N:198:ARG:HB2	2.26	0.56
2:H:332:ARG:C	2:H:333:ILE:HD12	2.27	0.56
3:N:501:ALA:HB3	3:N:1452:ILE:CG2	2.36	0.56
2:H:575:GLN:NE2	2:H:670:GLN:OE1	2.38	0.56
1:L:177:VAL:HG12	1:L:199:ILE:HD12	1.88	0.56
2:M:897:LEU:HD22	2:M:920:GLN:HG2	1.88	0.56
2:H:22:GLN:HB3	2:H:121:MET:CE	2.36	0.56
3:I:638:LYS:HD3	3:I:932:ASP:HB3	1.87	0.56
3:D:408:GLU:OE2	3:D:409:VAL:HG23	2.06	0.56
1:B:57:TYR:HE1	1:B:163:ASN:HD21	1.54	0.56
3:D:996:TRP:HA	3:D:999:THR:HG22	1.87	0.56
2:M:12:VAL:HG21	2:M:472:ARG:HH11	1.70	0.56
1:F:107:LYS:NZ	1:F:113:ASP:OD2	2.37	0.56
4:J:33:HIS:CG	4:J:89:MET:HG2	2.40	0.56
2:M:806:LEU:HD13	2:M:813:VAL:HG21	1.88	0.56
1:G:20:TYR:CD2	1:G:21:GLY:N	2.74	0.56
2:C:292:ARG:CG	2:C:299:LYS:HB3	2.35	0.56
2:H:480:THR:HB	2:H:482:GLU:H	1.71	0.56
7:Y:120:SER:O	7:Y:123:SER:HB3	2.06	0.56
2:M:1042:ALA:HB2	3:N:1223:ILE:HG21	1.87	0.56
3:D:1408:ILE:HD12	3:D:1408:ILE:N	2.21	0.56
3:D:165:LYS:HD3	3:D:167:GLU:CB	2.25	0.56
3:D:86:ARG:CB	3:D:523:ASP:OD2	2.54	0.56
3:N:185:VAL:HG12	3:N:186:VAL:N	2.21	0.56
3:N:127:LEU:H	3:N:127:LEU:HD12	1.71	0.56
2:H:185:LYS:CD	2:H:190:LYS:CG	2.80	0.56
3:I:696:HIS:CD2	4:J:58:PRO:CB	2.89	0.56
3:D:1234:THR:HB	3:D:1235:GLN:OE1	2.06	0.56
2:H:437:ARG:NH1	2:H:491:GLU:OE2	2.37	0.56
1:B:76:VAL:O	1:B:79:ILE:HG13	2.06	0.56
4:J:25:LYS:O	4:J:29:GLN:HG3	2.05	0.56
2:H:54:ILE:O	2:H:54:ILE:HG23	2.05	0.56
3:N:355:VAL:CG2	3:N:367:ILE:HG23	2.36	0.56
3:D:639:LEU:HD12	3:D:640:HIS:N	2.21	0.56
7:Y:17:GLN:O	7:Y:21:ARG:HD3	2.06	0.56
2:H:295:ASP:O	2:H:297:GLU:N	2.38	0.56
3:D:982:PHE:CE1	7:X:100:LEU:CD2	2.87	0.56
2:M:654:LEU:HD13	2:M:663:ASN:C	2.27	0.56
3:D:862:ASP:O	3:D:877:PRO:HD3	2.06	0.56
3:D:465:LEU:HD22	3:D:510:GLU:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1312:LEU:HD11	3:D:1327:ARG:HH21	1.68	0.56
2:M:707:ARG:HG3	2:M:826:TYR:HE1	1.67	0.56
2:H:1071:ILE:HD12	3:I:670:VAL:HG11	1.88	0.56
1:G:137:ARG:HH11	1:G:137:ARG:HB3	1.71	0.56
1:L:20:TYR:CD2	1:L:21:GLY:N	2.74	0.56
2:M:524:VAL:CG1	2:M:525:SER:N	2.69	0.56
1:L:102:LYS:NZ	1:L:137:ARG:NH1	2.54	0.56
2:C:806:LEU:HD13	2:C:813:VAL:HG21	1.88	0.56
1:A:117:VAL:HG12	1:A:120:VAL:HG12	1.88	0.56
3:D:36:THR:C	3:D:38:LYS:N	2.59	0.56
3:N:538:SER:O	3:N:540:LEU:N	2.39	0.56
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.35	0.56
3:D:347:VAL:HG13	3:D:351:MET:HB2	1.88	0.55
2:M:1088:LEU:CD2	2:M:1092:LEU:HD12	2.33	0.55
2:C:571:LEU:HD11	2:C:701:THR:H	1.70	0.55
2:H:578:VAL:HG11	2:H:991:GLN:HB3	1.88	0.55
2:H:170:PRO:HD3	2:H:263:ASP:OD1	2.06	0.55
1:B:177:VAL:HG12	1:B:199:ILE:HD12	1.87	0.55
1:G:197:LEU:HD21	1:G:199:ILE:HD11	1.88	0.55
3:N:348:GLN:H	3:N:351:MET:HE2	1.71	0.55
3:I:606:ILE:HG13	3:I:613:ARG:HG3	1.87	0.55
7:Y:89:VAL:HG12	7:Y:91:LEU:HD21	1.85	0.55
2:C:496:ILE:HD12	2:C:496:ILE:N	2.21	0.55
3:D:490:ALA:O	3:D:493:ARG:HG3	2.06	0.55
3:N:862:ASP:O	3:N:877:PRO:HD3	2.06	0.55
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.88	0.55
3:D:1472:ILE:O	3:D:1477:GLY:HA3	2.06	0.55
1:A:198:ARG:NH2	2:C:934:PHE:CD1	2.74	0.55
2:H:690:ILE:HG23	2:H:852:ILE:HA	1.88	0.55
1:G:179:PHE:HD2	1:G:179:PHE:H	1.53	0.55
3:I:1491:THR:O	3:I:1494:ALA:HB3	2.06	0.55
2:C:221:LEU:HD12	2:C:222:MET:CA	2.37	0.55
3:N:156:GLU:HB2	3:N:157:GLU:OE2	2.06	0.55
3:N:456:MET:SD	3:N:568:ARG:NH2	2.79	0.55
2:M:181:VAL:HG12	2:M:223:ASP:OD2	2.07	0.55
2:M:290:LEU:O	2:M:290:LEU:HD12	2.06	0.55
4:E:30:LEU:O	4:E:35:PHE:HA	2.06	0.55
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.06	0.55
2:M:862:PRO:HG2	2:M:925:TYR:OH	2.05	0.55
2:H:456:ALA:HB3	2:H:459:ALA:HB2	1.88	0.55
7:X:90:GLU:HA	7:X:100:LEU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:401:TYR:OH	3:I:430:ASP:HB2	2.06	0.55
3:N:800:LYS:HD3	3:N:830:ALA:O	2.06	0.55
3:D:33:ASN:ND2	3:D:35:ARG:NH2	2.53	0.55
3:N:762:GLN:HE21	4:O:20:THR:CB	2.18	0.55
2:M:496:ILE:N	2:M:496:ILE:CD1	2.69	0.55
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.06	0.55
3:N:590:PRO:O	3:N:600:LEU:HD12	2.05	0.55
2:M:441:VAL:HG12	2:M:559:LEU:HA	1.88	0.55
2:H:252:LYS:O	2:H:255:ALA:N	2.36	0.55
1:F:115:LEU:HD12	1:F:116:PRO:HD2	1.87	0.55
3:N:1408:ILE:HD12	3:N:1408:ILE:N	2.21	0.55
3:D:149:LYS:CE	3:D:149:LYS:H	2.18	0.55
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.88	0.55
2:H:685:GLU:HG2	7:Y:41:ASP:OD1	1.99	0.55
3:I:119:SER:O	3:I:121:THR:N	2.40	0.55
3:D:134:VAL:O	3:D:454:ALA:CB	2.49	0.55
2:M:162:ILE:HG22	2:M:172:ILE:HD13	1.88	0.55
2:M:272:ALA:HA	2:M:464:LEU:HD21	1.88	0.55
2:M:431:HIS:H	2:M:434:HIS:CE1	2.24	0.55
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.41	0.55
3:N:189:GLN:NE2	3:N:191:LEU:H	2.03	0.55
2:H:332:ARG:HD2	2:H:464:LEU:HG	1.89	0.55
3:N:93:ILE:HG12	3:N:548:ILE:HD11	1.89	0.55
2:H:1075:ASP:HB2	4:J:31:LEU:HD13	1.88	0.55
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.06	0.55
1:B:45:LEU:HD11	1:B:177:VAL:HG22	1.87	0.55
3:N:704:ARG:HH12	3:N:743:ASP:CG	2.08	0.55
3:D:704:ARG:HH22	6:Q:16:G:HO2'	1.53	0.55
3:D:1286:THR:HG22	3:D:1287:GLU:N	2.16	0.55
3:I:24:GLY:HA3	3:I:49:ILE:HG12	1.89	0.55
2:H:242:LEU:HD11	2:H:254:VAL:HG11	1.87	0.55
3:D:553:ARG:HD2	3:D:570:GLU:OE1	2.07	0.55
3:N:1329:ALA:C	3:N:1330:ILE:HD12	2.26	0.55
2:C:12:VAL:HB	2:C:472:ARG:NH1	2.22	0.55
3:N:470:LEU:HD12	3:N:503:LEU:CD2	2.37	0.55
1:A:107:LYS:NZ	1:A:113:ASP:OD2	2.37	0.55
2:M:86:LYS:HD2	2:M:813:VAL:HB	1.88	0.55
3:D:882:PHE:O	3:D:886:VAL:HG23	2.07	0.55
3:I:1123:PHE:CE2	3:I:1184:GLN:HA	2.40	0.55
1:G:206:THR:HG23	1:G:208:LEU:N	2.20	0.55
3:I:550:ARG:NH1	3:I:573:MET:HB3	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:690:ILE:HG23	2:C:852:ILE:HA	1.87	0.55
3:I:956:ILE:CD1	3:I:1062:ARG:HG3	2.36	0.55
3:D:702:LEU:O	3:D:713:ILE:HA	2.07	0.55
2:H:441:VAL:HG12	2:H:559:LEU:HA	1.88	0.55
3:I:1460:ILE:O	3:I:1460:ILE:HD12	2.06	0.55
2:C:553:ASP:OD1	2:C:843:HIS:ND1	2.37	0.55
2:M:540:PHE:HZ	3:N:1070:TYR:HD1	1.54	0.55
1:K:115:LEU:HD12	1:K:116:PRO:HD2	1.87	0.55
2:H:850:ALA:HA	3:I:632:VAL:HG11	1.88	0.55
3:I:632:VAL:HG23	3:I:725:SER:HB2	1.87	0.55
2:H:1084:SER:O	2:H:1087:VAL:HG12	2.06	0.55
3:I:615:ARG:HG3	3:I:619:LEU:CD1	2.37	0.55
2:M:1086:ARG:HD3	3:N:88:TYR:CD2	2.41	0.55
2:M:1084:SER:O	2:M:1087:VAL:HG12	2.06	0.55
2:M:834:GLN:NE2	3:N:724:GLN:CG	2.61	0.55
3:I:1442:ASN:HD21	3:I:1444:THR:HB	1.71	0.55
3:D:1329:ALA:C	3:D:1330:ILE:HD12	2.26	0.55
3:I:202:VAL:HG11	3:I:445:ARG:NH2	2.21	0.55
3:I:177:ALA:N	3:I:390:PRO:HD3	2.16	0.55
3:N:982:PHE:HB2	3:N:983:LEU:HD23	1.88	0.55
3:N:980:MET:HB3	3:N:982:PHE:HE2	1.72	0.55
3:I:704:ARG:HH12	3:I:743:ASP:CG	2.09	0.55
3:D:705:ALA:HB1	3:D:706:PRO:HD3	1.88	0.55
1:A:86:VAL:HG13	1:A:86:VAL:O	2.07	0.55
2:C:363:SER:OG	2:C:366:SER:HB2	2.07	0.55
2:M:455:LEU:CD1	2:M:456:ALA:O	2.54	0.55
1:F:222:LEU:HD21	1:G:218:LEU:HD23	1.88	0.55
7:Y:90:GLU:HA	7:Y:100:LEU:O	2.06	0.55
2:H:654:LEU:HD13	2:H:663:ASN:C	2.26	0.55
3:N:699:VAL:HG22	3:N:756:GLN:OE1	2.06	0.55
4:O:6:ILE:O	4:O:6:ILE:HD12	2.07	0.55
2:M:524:VAL:HG12	2:M:525:SER:H	1.69	0.55
2:M:726:ILE:HG13	2:M:734:LEU:HD11	1.88	0.55
3:N:350:HIS:CD2	3:N:371:ILE:HG12	2.41	0.55
3:D:802:ALA:O	3:D:803:GLY:C	2.44	0.55
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.87	0.55
1:L:52:ALA:HB2	1:L:170:VAL:O	2.06	0.55
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.89	0.55
2:M:158:TYR:O	2:M:310:LEU:HD11	2.06	0.55
3:I:47:GLU:O	3:I:51:GLY:N	2.38	0.55
1:K:33:GLY:O	1:K:195:LEU:HD13	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:728:HIS:O	2:H:729:LEU:HB3	2.06	0.55
2:C:202:TYR:OH	2:C:304:LEU:HD22	2.07	0.55
2:C:221:LEU:C	2:C:221:LEU:HD12	2.26	0.55
3:D:1047:LYS:HZ1	3:D:1053:PHE:HA	1.71	0.55
3:D:614:PHE:CE2	3:D:1438:ALA:HB1	2.42	0.55
3:D:942:SER:O	3:D:947:ILE:HD11	2.06	0.55
3:N:141:ILE:O	3:N:162:ARG:NH2	2.39	0.55
3:D:1209:LEU:HD22	3:D:1211:MET:CB	2.36	0.55
2:H:39:ARG:O	2:H:39:ARG:HD2	2.07	0.55
3:I:731:LEU:HD22	3:I:779:ALA:O	2.05	0.55
3:I:911:LEU:O	3:I:915:VAL:HG23	2.06	0.55
2:M:64:LEU:HB2	2:M:359:MET:CG	2.36	0.55
2:H:976:ASP:HB3	2:H:979:THR:HG22	1.88	0.55
2:C:897:LEU:HD21	2:C:921:ALA:CA	2.36	0.55
1:B:124:ASN:ND2	1:B:127:LEU:HD22	2.21	0.55
3:N:796:ARG:HB2	3:N:828:LYS:HD3	1.89	0.55
3:N:911:LEU:O	3:N:915:VAL:HG23	2.06	0.55
2:M:212:GLY:O	2:M:214:TYR:N	2.40	0.55
7:X:26:LEU:HD13	7:X:58:ILE:HG22	1.88	0.55
1:B:59:GLU:HG3	1:B:60:ASP:H	1.71	0.55
1:L:179:PHE:HD2	1:L:179:PHE:H	1.54	0.55
3:D:1282:ARG:HD2	3:D:1315:ASP:HB3	1.87	0.55
3:D:1301:LYS:HG3	3:D:1303:TYR:CZ	2.42	0.55
2:H:1085:PHE:O	2:H:1089:VAL:HG23	2.05	0.55
2:C:391:LEU:HD23	2:C:391:LEU:O	2.07	0.55
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.87	0.55
3:N:970:LYS:HG2	3:N:995:LEU:HD13	1.87	0.55
2:C:1095:LEU:HB2	3:D:101:HIS:CE1	2.41	0.55
2:M:140:ILE:HD13	2:M:331:ARG:HE	1.71	0.55
3:N:84:ILE:HG13	3:N:85:VAL:N	2.21	0.55
2:H:139:GLN:HE22	2:H:415:PRO:CD	2.19	0.55
2:H:332:ARG:HE	2:H:464:LEU:CD1	2.20	0.55
1:G:112:ARG:NH1	1:G:126:ASP:N	2.55	0.55
2:H:544:THR:O	2:H:547:ILE:HD13	2.06	0.55
2:C:544:THR:O	2:C:547:ILE:HD13	2.06	0.55
3:I:191:LEU:HD22	3:I:393:ILE:HG21	1.87	0.55
3:N:705:ALA:HB1	3:N:706:PRO:HD3	1.88	0.55
3:N:729:HIS:CE1	3:N:731:LEU:H	2.24	0.55
3:I:729:HIS:CE1	3:I:731:LEU:H	2.24	0.55
3:D:729:HIS:CE1	3:D:731:LEU:H	2.24	0.55
3:D:982:PHE:HD2	3:D:982:PHE:H	1.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1034:GLU:OE1	3:I:1096:ARG:NH2	2.35	0.55
2:C:11:GLU:CD	2:C:537:LYS:HZ2	2.09	0.55
2:H:498:GLN:HE21	2:H:498:GLN:HA	1.71	0.55
3:I:780:LYS:HZ1	7:Y:38:GLU:HB3	1.70	0.55
2:H:468:ARG:HB3	2:H:485:TYR:HB3	1.87	0.55
3:D:1152:GLU:HG3	3:D:1161:GLU:HA	1.88	0.55
3:I:17:LYS:CG	3:I:21:TRP:HE1	2.20	0.55
2:C:415:PRO:HB2	2:C:418:LEU:HD13	1.88	0.55
2:M:39:ARG:CD	2:M:45:GLN:NE2	2.59	0.55
3:N:17:LYS:CG	3:N:21:TRP:HE1	2.20	0.55
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.37	0.55
2:C:987:ILE:HD12	3:D:948:THR:HG23	1.88	0.55
3:N:119:SER:H	3:N:123:LEU:CD2	2.20	0.55
3:I:1258:ARG:HH21	3:I:1262:LEU:HD11	1.70	0.55
2:M:192:PRO:O	2:M:195:LEU:HB3	2.06	0.55
2:M:206:THR:HG23	2:M:207:LEU:N	2.22	0.55
2:M:221:LEU:C	2:M:223:ASP:N	2.53	0.55
1:F:35:THR:HG21	1:G:43:ILE:HD11	1.88	0.55
3:I:15:PRO:HB3	3:I:515:GLU:OE1	2.06	0.55
3:D:804:LEU:CD2	3:D:804:LEU:N	2.70	0.55
1:G:56:VAL:HG12	1:G:57:TYR:N	2.22	0.55
3:I:982:PHE:HB2	3:I:983:LEU:HD23	1.88	0.55
3:I:400:VAL:HG13	3:I:443:VAL:CG2	2.36	0.55
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.88	0.55
3:I:636:GLN:HG2	3:I:637:LEU:N	2.22	0.55
3:N:1205:TYR:CZ	3:N:1366:LYS:HD3	2.42	0.55
3:I:1329:ALA:C	3:I:1330:ILE:HD12	2.26	0.55
3:I:470:LEU:HD12	3:I:503:LEU:CD2	2.37	0.55
3:I:563:PRO:O	3:I:566:ILE:N	2.36	0.55
3:N:780:LYS:HZ3	7:Z:38:GLU:HB3	1.70	0.55
3:D:1110:ALA:O	3:D:1111:ASP:C	2.45	0.55
2:M:75:GLU:OE1	2:M:75:GLU:HA	2.06	0.55
3:I:956:ILE:HD11	3:I:1062:ARG:HB3	1.89	0.55
3:I:702:LEU:O	3:I:713:ILE:HA	2.07	0.55
2:M:1029:GLY:O	3:N:622:ARG:HG2	2.06	0.55
2:H:205:GLU:OE2	2:H:206:THR:HG22	2.06	0.55
2:C:165:LEU:HB3	2:C:265:ARG:NH1	2.20	0.55
3:N:632:VAL:HG23	3:N:725:SER:HB2	1.87	0.55
3:N:205:TYR:O	3:N:205:TYR:CD2	2.60	0.55
1:G:80:LEU:HD23	3:I:867:ARG:HG3	1.89	0.55
3:N:1486:VAL:CG1	4:O:22:VAL:HG13	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:18:DC:C2'	5:T:19:DC:H5'	2.28	0.55
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.89	0.55
1:F:221:HIS:NE2	1:G:32:PHE:CD2	2.75	0.55
3:N:1388:ARG:HH11	3:N:1388:ARG:HA	1.69	0.55
2:H:18:LEU:HD11	2:H:586:ARG:NH1	2.21	0.55
1:B:44:LEU:CA	1:B:48:ILE:HD13	2.35	0.55
1:A:34:VAL:CG1	1:B:42:ARG:HH21	2.19	0.55
3:N:1107:VAL:HG13	3:N:1200:VAL:O	2.07	0.55
3:N:1149:LEU:HG	3:N:1166:LEU:HD22	1.88	0.55
2:C:64:LEU:HD12	2:C:100:LEU:HD11	1.89	0.55
2:M:810:ASP:HB3	2:M:813:VAL:HG12	1.89	0.55
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.89	0.55
2:M:500:ASN:OD1	3:N:1067:VAL:CG2	2.55	0.55
2:C:717:LEU:HD13	2:C:761:PHE:HD2	1.70	0.55
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	1.89	0.55
2:M:1006:HIS:CD2	2:M:1027:PHE:HB3	2.42	0.55
3:I:1150:ALA:HB3	3:I:1187:PRO:HB2	1.89	0.55
3:I:1108:ARG:HD3	3:I:1108:ARG:N	2.21	0.55
3:N:660:LYS:HA	3:N:660:LYS:NZ	2.22	0.55
3:D:181:ASP:O	3:D:205:TYR:N	2.40	0.55
3:D:1053:PHE:CZ	3:D:1072:ILE:HD12	2.42	0.55
3:N:948:THR:C	3:N:949:ILE:HD12	2.27	0.55
3:D:457:GLY:O	3:D:460:ALA:N	2.39	0.55
2:M:327:HIS:O	2:M:330:ASN:N	2.35	0.55
1:G:74:ASP:HB2	3:I:872:ARG:HH21	1.71	0.55
3:N:814:ALA:HB1	3:N:818:ARG:NH2	2.17	0.55
3:N:1209:LEU:HD21	4:O:16:LYS:HZ1	1.68	0.55
3:D:1205:TYR:CZ	3:D:1366:LYS:HD3	2.42	0.55
2:M:897:LEU:HD21	2:M:921:ALA:CA	2.36	0.55
1:B:79:ILE:HD12	1:B:83:LYS:HE3	1.89	0.55
2:H:162:ILE:HB	2:H:172:ILE:HB	1.87	0.55
1:A:56:VAL:CG1	1:A:142:VAL:HG12	2.27	0.55
2:H:71:TYR:HD2	2:H:71:TYR:H	1.53	0.55
3:N:355:VAL:HG11	3:N:385:VAL:HG21	1.89	0.55
2:H:948:GLU:CD	2:H:955:PRO:HA	2.27	0.55
2:M:948:GLU:CD	2:M:955:PRO:HA	2.28	0.55
2:H:351:LEU:CD1	2:H:374:ASN:ND2	2.68	0.55
4:E:54:LEU:HA	4:E:58:PRO:CG	2.36	0.55
3:I:800:LYS:HG3	3:I:829:VAL:CG1	2.37	0.55
2:H:1037:VAL:O	2:H:1041:GLU:HG3	2.06	0.55
3:N:1205:TYR:CE2	3:N:1366:LYS:HD3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:190:GLU:HG2	3:D:196:VAL:CG2	2.36	0.55
7:Y:115:THR:OG1	7:Y:116:PRO:HD3	2.06	0.55
2:H:524:VAL:CG1	2:H:525:SER:N	2.69	0.55
3:I:660:LYS:NZ	3:I:660:LYS:HA	2.22	0.55
3:N:1460:ILE:O	3:N:1460:ILE:HD12	2.07	0.55
3:N:1380:GLU:HB2	3:N:1420:LEU:HD11	1.89	0.55
3:D:159:ARG:HD2	2:H:222:MET:HE1	1.89	0.55
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.07	0.55
3:N:808:THR:OG1	3:N:809:PRO:HD3	2.07	0.55
2:H:165:LEU:HA	2:H:166:PRO:O	2.07	0.55
2:M:200:LEU:CD2	2:M:300:ASP:CG	2.72	0.55
2:C:571:LEU:CD1	2:C:701:THR:N	2.69	0.55
3:D:1426:LYS:HA	3:D:1429:LEU:HD22	1.89	0.55
7:Z:90:GLU:HA	7:Z:100:LEU:O	2.07	0.55
3:N:348:GLN:HB2	3:N:351:MET:SD	2.47	0.55
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.88	0.55
1:A:35:THR:HG21	1:B:43:ILE:CG1	2.36	0.55
1:A:23:PHE:HE2	1:A:199:ILE:HD12	1.72	0.55
3:I:789:LEU:CD1	3:I:911:LEU:HD21	2.37	0.55
3:N:1463:LYS:O	3:N:1466:VAL:HB	2.07	0.55
2:M:1046:ALA:HB2	3:N:1476:THR:HB	1.89	0.55
2:M:1046:ALA:HB2	3:N:1476:THR:OG1	2.05	0.55
1:B:42:ARG:CG	1:B:42:ARG:HH11	2.19	0.55
3:D:699:VAL:HG22	3:D:756:GLN:OE1	2.06	0.55
3:I:1205:TYR:CE2	3:I:1366:LYS:HD3	2.42	0.55
7:X:7:LEU:CD2	7:X:109:GLU:HB2	2.36	0.55
1:B:58:ILE:CD1	1:B:58:ILE:N	2.70	0.55
3:D:584:ASN:CG	3:D:590:PRO:HG2	2.27	0.55
2:H:1043:TYR:HE2	3:I:768:ASN:ND2	2.04	0.55
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.88	0.55
3:I:1408:ILE:HD12	3:I:1408:ILE:N	2.21	0.55
2:H:1009:SER:HB3	3:I:651:GLU:O	2.07	0.55
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.42	0.55
3:I:1118:ILE:HG13	3:I:1192:LEU:HD12	1.88	0.55
3:N:1097:LYS:O	3:N:1100:ASP:HB2	2.07	0.55
2:C:22:GLN:HB3	2:C:121:MET:HE1	1.88	0.54
3:I:1466:VAL:HG12	3:I:1467:ILE:N	2.22	0.54
3:N:1053:PHE:CE1	3:N:1072:ILE:HG23	2.42	0.54
3:N:86:ARG:NE	3:N:523:ASP:OD1	2.40	0.54
3:N:186:VAL:HA	3:N:200:ASP:OD2	2.07	0.54
2:M:302:VAL:O	2:M:305:PRO:HD2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:368:THR:HG22	2:H:369:PRO:HD3	1.89	0.54
2:H:547:ILE:HD12	2:H:547:ILE:N	2.22	0.54
3:I:204:LEU:O	3:I:393:ILE:HG23	2.08	0.54
2:M:547:ILE:N	2:M:547:ILE:HD12	2.23	0.54
2:H:54:ILE:HG22	2:H:66:LEU:N	2.16	0.54
3:N:394:LEU:HD23	3:N:394:LEU:N	2.22	0.54
2:C:31:GLN:HG2	2:C:34:VAL:HG23	1.88	0.54
3:I:882:PHE:O	3:I:886:VAL:HG23	2.07	0.54
1:L:56:VAL:HG12	1:L:57:TYR:N	2.22	0.54
3:D:982:PHE:HB2	3:D:983:LEU:HD23	1.88	0.54
1:B:56:VAL:HG12	1:B:57:TYR:N	2.22	0.54
3:D:804:LEU:HB3	3:D:830:ALA:O	2.07	0.54
3:D:636:GLN:HG2	3:D:637:LEU:N	2.22	0.54
3:N:636:GLN:HG2	3:N:637:LEU:N	2.22	0.54
3:N:433:GLY:HA3	3:N:446:VAL:HG12	1.87	0.54
2:M:1014:SER:HB3	2:M:1019:GLN:H	1.71	0.54
3:I:996:TRP:HA	3:I:999:THR:HG22	1.87	0.54
4:J:37:ASN:HD22	4:J:37:ASN:H	1.53	0.54
3:N:875:THR:CG2	3:N:879:ARG:HB2	2.38	0.54
2:M:500:ASN:ND2	2:M:500:ASN:N	2.54	0.54
2:H:178:PRO:C	2:H:180:GLY:H	2.10	0.54
2:C:162:ILE:HB	2:C:172:ILE:HB	1.89	0.54
3:D:418:GLY:O	3:D:428:LYS:HD2	2.07	0.54
3:D:160:GLU:O	3:D:165:LYS:N	2.41	0.54
3:D:181:ASP:HA	3:D:205:TYR:HB3	1.88	0.54
3:D:441:ARG:HD2	3:D:445:ARG:HH22	1.72	0.54
3:D:398:ALA:CB	3:D:447:VAL:HA	2.35	0.54
2:H:218:VAL:CG1	2:H:222:MET:HG3	2.37	0.54
2:C:165:LEU:HB2	2:C:265:ARG:HH12	1.69	0.54
2:C:437:ARG:HG2	2:C:467:ILE:O	2.07	0.54
2:M:689:VAL:HG11	2:M:853:LEU:HD22	1.89	0.54
2:H:122:THR:HG22	2:H:123:GLU:N	2.23	0.54
3:N:205:TYR:HD1	3:N:390:PRO:CG	2.20	0.54
2:M:571:LEU:HD11	2:M:701:THR:H	1.70	0.54
3:N:1434:TRP:CE3	3:N:1455:LYS:HB3	2.42	0.54
1:B:74:ASP:CB	3:D:872:ARG:NH2	2.58	0.54
1:F:18:ARG:HH11	1:F:123:MET:CE	2.20	0.54
2:C:1036:GLU:OE1	2:C:1036:GLU:N	2.41	0.54
2:C:1041:GLU:OE1	3:D:1462:LEU:HB3	2.08	0.54
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.21	0.54
3:D:866:VAL:HG11	3:D:880:ILE:CD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:62:ILE:CG2	7:X:63:ASP:N	2.71	0.54
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.89	0.54
3:I:997:THR:HG21	7:Y:61:ARG:HH22	1.70	0.54
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.21	0.54
2:H:512:ARG:HG2	2:H:523:ILE:HD11	1.89	0.54
3:D:584:ASN:OD1	3:D:590:PRO:HG2	2.08	0.54
2:C:606:VAL:CG2	2:C:645:VAL:HG22	2.36	0.54
3:N:1118:ILE:HD11	3:N:1193:THR:HG23	1.88	0.54
3:D:116:LEU:HD13	3:D:118:LEU:HD12	1.89	0.54
2:H:1112:PHE:HB3	3:I:88:TYR:CD1	2.42	0.54
3:N:1053:PHE:CZ	3:N:1072:ILE:HD12	2.42	0.54
3:N:119:SER:O	3:N:121:THR:N	2.40	0.54
2:M:668:LEU:CD1	2:M:668:LEU:N	2.66	0.54
2:M:701:THR:HA	2:M:831:ARG:O	2.08	0.54
2:H:279:GLU:HG3	2:H:280:LYS:N	2.21	0.54
3:I:1053:PHE:CE1	3:I:1072:ILE:HG23	2.42	0.54
1:B:80:LEU:HG	3:D:844:ALA:CA	2.37	0.54
2:M:188:LYS:HA	2:M:188:LYS:HZ2	1.73	0.54
2:C:547:ILE:HD12	2:C:547:ILE:N	2.23	0.54
3:I:185:VAL:HG13	3:I:189:GLN:NE2	2.22	0.54
1:B:197:LEU:HD21	1:B:199:ILE:HD11	1.88	0.54
3:N:367:ILE:HG22	3:N:368:VAL:HG23	1.90	0.54
3:I:1109:GLU:HG3	3:I:1217:ILE:CD1	2.36	0.54
2:C:948:GLU:CD	2:C:955:PRO:HA	2.27	0.54
1:G:165:ILE:N	1:G:165:ILE:CD1	2.66	0.54
2:C:890:LEU:HD21	2:C:901:TYR:CD1	2.43	0.54
2:H:367:LEU:HD12	2:H:367:LEU:O	2.07	0.54
3:N:1221:VAL:CG1	3:N:1370:ILE:HD13	2.37	0.54
3:I:1372:VAL:HA	3:I:1375:MET:HE2	1.90	0.54
1:L:190:THR:OG1	3:N:722:GLU:OE1	2.25	0.54
2:C:292:ARG:HD2	2:C:299:LYS:NZ	2.22	0.54
1:B:165:ILE:H	1:B:165:ILE:HD13	1.70	0.54
3:D:660:LYS:NZ	3:D:660:LYS:HA	2.22	0.54
2:M:230:ARG:HH11	2:M:230:ARG:HG2	1.72	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.07	0.54
2:C:224:GLU:O	2:C:228:ALA:HB3	2.08	0.54
3:D:1053:PHE:CE1	3:D:1072:ILE:HG23	2.43	0.54
3:N:1029:ARG:CA	3:N:1029:ARG:HH11	2.19	0.54
2:C:1095:LEU:HD11	2:C:1097:LEU:HD23	1.88	0.54
3:N:186:VAL:HG12	3:N:187:LYS:H	1.71	0.54
3:I:510:GLU:HB2	3:I:511:TRP:CZ3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1056:LYS:HD3	3:I:623:VAL:HG13	1.87	0.54
2:H:258:TYR:CZ	2:H:290:LEU:HD21	2.42	0.54
1:F:58:ILE:HG21	1:F:68:ILE:HD11	1.89	0.54
3:I:160:GLU:CA	3:I:165:LYS:HB2	2.36	0.54
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.89	0.54
5:R:20:DG:H22	6:S:11:C:N4	2.03	0.54
3:I:875:THR:CG2	3:I:879:ARG:HB2	2.37	0.54
2:M:657:ASP:CG	2:M:662:GLU:HA	2.28	0.54
2:H:654:LEU:N	2:H:654:LEU:HD23	2.17	0.54
4:O:10:PHE:CE2	4:O:19:LEU:HD23	2.42	0.54
1:B:86:VAL:O	1:B:86:VAL:HG13	2.07	0.54
3:D:789:LEU:CD1	3:D:911:LEU:HD21	2.37	0.54
2:C:512:ARG:HG2	2:C:523:ILE:HD11	1.90	0.54
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.20	0.54
1:F:67:THR:CG2	2:H:627:ARG:NH2	2.71	0.54
3:D:434:ARG:HB3	3:D:447:VAL:CG2	2.38	0.54
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.89	0.54
2:H:185:LYS:HG2	2:H:190:LYS:HA	1.90	0.54
2:C:175:GLU:O	2:C:183:SER:HB3	2.06	0.54
3:N:1216:SER:CB	4:O:16:LYS:H	2.21	0.54
3:I:699:VAL:HG22	3:I:756:GLN:OE1	2.06	0.54
2:H:431:HIS:H	2:H:434:HIS:CE1	2.25	0.54
2:C:368:THR:HB	2:C:369:PRO:CD	2.38	0.54
2:C:1081:VAL:HG13	2:C:1085:PHE:CB	2.38	0.54
4:J:6:ILE:O	4:J:9:LEU:HB2	2.07	0.54
3:N:766:ALA:HB1	4:O:2:ALA:HB2	1.89	0.54
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.89	0.54
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.38	0.54
2:H:91:GLN:HA	2:H:119:PRO:HA	1.90	0.54
1:A:19:GLU:CD	1:A:19:GLU:H	2.10	0.54
3:D:481:MET:CE	3:D:496:LEU:HD23	2.38	0.54
2:H:545:ASN:HA	2:H:905:ILE:HD11	1.90	0.54
3:I:1221:VAL:CG1	3:I:1370:ILE:HD13	2.38	0.54
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.06	0.54
4:O:36:LYS:HZ1	4:O:45:ARG:HH22	1.56	0.54
2:H:63:GLY:HA3	2:H:103:LYS:CE	2.37	0.54
3:N:702:LEU:O	3:N:713:ILE:HA	2.07	0.54
3:I:1283:ILE:HG22	3:I:1284:GLU:N	2.22	0.54
3:I:540:LEU:H	3:I:540:LEU:HD12	1.73	0.54
2:C:431:HIS:H	2:C:434:HIS:CE1	2.25	0.54
3:I:122:GLU:O	3:I:126:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:787:LEU:HD21	3:N:947:ILE:HD13	1.90	0.54
3:D:52:PRO:N	3:D:86:ARG:CD	2.71	0.54
3:N:179:VAL:CG1	3:N:183:GLU:HB3	2.37	0.54
2:C:657:ASP:CG	2:C:662:GLU:HA	2.28	0.54
3:I:101:HIS:ND1	3:I:103:TRP:HB2	2.17	0.54
3:I:1053:PHE:CZ	3:I:1072:ILE:HD12	2.42	0.54
2:H:897:LEU:HB3	2:H:899:GLN:NE2	2.20	0.54
2:H:890:LEU:HD21	2:H:901:TYR:CD1	2.43	0.54
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.21	0.54
2:H:879:ARG:NH2	7:Y:42:ASP:CG	2.61	0.54
1:K:56:VAL:CG1	1:K:142:VAL:HG12	2.27	0.54
3:I:809:PRO:O	3:I:812:ALA:HB3	2.07	0.54
3:I:1326:THR:CG2	3:I:1327:ARG:H	2.18	0.54
2:M:958:THR:HG23	2:M:961:GLU:HG2	1.89	0.54
2:C:456:ALA:HB3	2:C:459:ALA:HB2	1.89	0.54
4:E:47:LYS:HA	4:E:54:LEU:CB	2.38	0.54
3:D:1326:THR:CG2	3:D:1327:ARG:H	2.18	0.54
3:I:697:GLY:C	4:J:59:ASN:HD22	2.10	0.54
3:D:470:LEU:HD12	3:D:503:LEU:CD2	2.37	0.54
2:C:524:VAL:CG1	2:C:525:SER:N	2.69	0.54
2:C:523:ILE:HG23	2:C:523:ILE:O	2.08	0.54
3:N:1358:ALA:O	7:Z:55:LYS:NZ	2.40	0.54
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.43	0.54
3:N:1401:GLU:CD	3:N:1415:VAL:HG11	2.28	0.54
3:D:1401:GLU:CD	3:D:1415:VAL:HG11	2.28	0.54
3:I:541:ASN:O	3:I:545:ARG:HG3	2.08	0.54
2:C:1017:THR:O	2:C:1018:GLN:HB2	2.07	0.54
3:D:87:ARG:O	3:D:524:LEU:HD11	2.07	0.54
1:L:197:LEU:HD21	1:L:199:ILE:HD11	1.88	0.54
3:D:1352:ILE:O	3:D:1355:VAL:HG23	2.08	0.54
3:I:138:LYS:HD3	3:I:138:LYS:N	2.19	0.54
4:J:25:LYS:HA	4:J:28:GLN:CG	2.36	0.54
2:H:1015:LEU:N	2:H:1015:LEU:CD1	2.71	0.54
2:M:199:VAL:HG13	2:M:235:LEU:HD12	1.88	0.54
2:M:625:LEU:HB3	2:M:639:GLN:HB2	1.90	0.54
2:H:957:LYS:O	2:H:962:GLN:NE2	2.25	0.54
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.89	0.54
3:I:866:VAL:HG11	3:I:880:ILE:CD1	2.38	0.54
3:I:1205:TYR:CZ	3:I:1366:LYS:HD3	2.42	0.54
3:I:1395:LEU:HD23	3:I:1395:LEU:C	2.27	0.54
2:M:443:THR:HG21	3:N:1078:ARG:NE	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:796:ARG:NH2	3:I:859:ASP:OD1	2.41	0.54
3:N:789:LEU:CD1	3:N:911:LEU:HD21	2.37	0.54
7:Y:115:THR:HB	7:Y:116:PRO:HD3	1.90	0.54
4:E:61:VAL:HG23	4:E:62:THR:N	2.22	0.54
2:H:810:ASP:HB3	2:H:813:VAL:HG12	1.89	0.54
1:L:132:LEU:HD23	1:L:136:GLY:O	2.08	0.54
2:M:603:VAL:HG22	2:M:613:VAL:HG12	1.90	0.54
3:I:1380:GLU:HB2	3:I:1420:LEU:HD11	1.89	0.54
3:D:176:ASP:HB3	3:D:389:GLU:CG	2.26	0.54
3:I:119:SER:H	3:I:123:LEU:CD2	2.20	0.54
3:I:99:ALA:O	3:I:514:LEU:HB2	2.08	0.54
3:D:1437:ALA:HB3	3:D:1446:VAL:CG1	2.38	0.54
2:H:148:PHE:CZ	2:H:309:TYR:HB3	2.42	0.54
2:C:878:SER:OG	3:D:1029:ARG:CZ	2.56	0.54
3:N:157:GLU:N	3:N:157:GLU:OE2	2.40	0.54
3:N:132:TYR:HD1	3:N:132:TYR:H	1.54	0.54
3:N:813:LEU:HD12	3:N:814:ALA:CA	2.38	0.54
2:H:140:ILE:O	2:H:140:ILE:HD12	2.07	0.54
2:H:1099:VAL:HG22	3:I:10:ILE:HG13	1.90	0.54
3:I:111:LYS:CD	3:I:1448:THR:HG22	2.38	0.54
3:I:700:VAL:HG22	3:I:718:PRO:HG3	1.88	0.54
3:D:1205:TYR:CE2	3:D:1366:LYS:HD3	2.42	0.54
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.21	0.54
2:M:188:LYS:O	2:M:189:ARG:NE	2.26	0.54
3:I:179:VAL:HG21	3:I:189:GLN:NE2	2.23	0.54
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.23	0.54
3:I:137:PRO:HB2	3:I:138:LYS:HD3	1.89	0.54
2:C:81:ASP:N	2:C:84:ARG:NH1	2.56	0.54
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.90	0.54
1:G:38:ASN:O	1:G:42:ARG:HG3	2.08	0.54
1:K:86:VAL:HG13	1:K:86:VAL:O	2.07	0.54
3:I:1112:CYS:SG	3:I:1112:CYS:O	2.65	0.54
2:H:958:THR:HG23	2:H:961:GLU:HG2	1.89	0.54
3:N:481:MET:CE	3:N:496:LEU:HD23	2.38	0.54
1:L:88:ARG:HD2	1:L:123:MET:CE	2.38	0.54
3:N:1114:THR:HG23	3:N:1114:THR:O	2.08	0.54
1:L:55:SER:OG	1:L:158:ILE:HB	2.07	0.54
2:H:1071:ILE:HG23	3:I:670:VAL:HG11	1.89	0.54
2:M:398:THR:O	2:M:570:PRO:HD3	2.08	0.54
3:D:590:PRO:O	3:D:600:LEU:HD12	2.08	0.54
2:H:806:LEU:HD13	2:H:813:VAL:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1161:GLU:HG2	3:D:1164:ARG:HB2	1.90	0.54
1:B:16:GLN:HE21	1:B:16:GLN:HA	1.73	0.54
3:D:376:GLU:O	3:D:378:ILE:HG13	2.07	0.54
2:M:28:ARG:HG2	2:M:42:VAL:HG21	1.90	0.54
3:I:133:ILE:HG22	3:I:134:VAL:H	1.72	0.54
3:I:141:ILE:HG22	3:I:162:ARG:NH1	2.23	0.54
3:N:996:TRP:CD1	3:N:1056:PRO:HG2	2.40	0.54
2:M:39:ARG:NE	2:M:45:GLN:HE21	1.88	0.54
2:M:1111:ILE:O	2:M:1112:PHE:C	2.46	0.54
3:I:1352:ILE:O	3:I:1355:VAL:HG23	2.08	0.54
2:M:697:ARG:O	2:M:698:ASP:HB2	2.08	0.54
2:H:6:PHE:CD1	2:H:6:PHE:N	2.75	0.54
2:C:74:GLY:O	2:C:76:PRO:HD3	2.08	0.54
3:N:407:VAL:HA	3:N:422:ALA:CB	2.37	0.54
2:M:274:ARG:HG3	2:M:285:LEU:HB3	1.89	0.54
3:N:356:PRO:HG2	3:N:359:ALA:CB	2.33	0.54
1:L:58:ILE:N	1:L:58:ILE:CD1	2.68	0.54
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.22	0.54
2:C:269:LEU:HD23	2:C:269:LEU:C	2.29	0.54
1:G:190:THR:OG1	3:I:722:GLU:OE1	2.26	0.54
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.73	0.54
1:K:107:LYS:NZ	1:K:113:ASP:OD2	2.37	0.54
2:C:1044:GLY:HA2	3:D:1475:GLY:HA3	1.89	0.54
3:D:875:THR:CG2	3:D:879:ARG:HB2	2.37	0.54
2:H:523:ILE:O	2:H:523:ILE:HG23	2.07	0.54
2:M:523:ILE:HG23	2:M:523:ILE:O	2.07	0.54
2:H:516:ARG:NE	3:I:1068:LEU:HD13	2.22	0.54
2:C:997:LEU:O	2:C:999:HIS:N	2.41	0.54
2:M:586:ARG:NH1	2:M:590:ASP:OD2	2.41	0.54
1:G:16:GLN:HE21	1:G:16:GLN:HA	1.73	0.54
3:D:348:GLN:HB2	3:D:351:MET:SD	2.48	0.54
3:D:562:ALA:O	2:H:223:ASP:O	2.25	0.54
2:H:182:VAL:C	2:H:193:LEU:CD1	2.75	0.54
3:D:207:PHE:CE2	2:H:284:ARG:HB2	2.42	0.54
2:M:676:ILE:HG23	2:M:988:VAL:HG13	1.84	0.54
3:D:506:GLY:O	3:D:507:ASN:C	2.46	0.54
2:C:185:LYS:HD2	2:C:190:LYS:HE2	1.90	0.54
2:M:140:ILE:CG2	2:M:333:ILE:HG13	2.38	0.54
3:N:185:VAL:CG1	3:N:186:VAL:N	2.71	0.54
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.38	0.54
3:I:107:ASP:O	3:I:108:VAL:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1221:VAL:CG1	3:D:1370:ILE:HD13	2.38	0.54
2:H:897:LEU:HD22	2:H:920:GLN:HG2	1.88	0.54
2:M:957:LYS:O	2:M:962:GLN:NE2	2.26	0.54
2:M:588:VAL:CG1	2:M:661:SER:HB3	2.39	0.54
7:Y:89:VAL:HG12	7:Y:90:GLU:N	2.23	0.54
3:I:788:GLY:O	3:I:792:ILE:HG22	2.09	0.54
3:I:835:SER:H	3:I:838:ARG:CD	2.21	0.54
3:N:866:VAL:HG11	3:N:880:ILE:CD1	2.38	0.54
1:G:23:PHE:O	1:G:196:THR:HA	2.08	0.54
3:D:1326:THR:CG2	3:D:1327:ARG:N	2.71	0.54
3:I:1098:LEU:CD2	3:I:1229:ILE:HB	2.37	0.54
2:M:16:PRO:O	2:M:18:LEU:HD12	2.07	0.54
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.89	0.54
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.90	0.54
2:H:678:PRO:O	3:I:943:THR:HA	2.07	0.53
2:C:182:VAL:CB	2:C:193:LEU:HB3	2.38	0.53
1:G:185:ARG:CD	3:I:692:GLU:CG	2.85	0.53
2:M:678:PRO:HG3	2:M:873:PRO:HD2	1.90	0.53
2:H:1092:LEU:CD1	2:H:1099:VAL:HG21	2.14	0.53
1:B:74:ASP:CG	3:D:872:ARG:NH2	2.61	0.53
3:I:177:ALA:H	3:I:390:PRO:CD	2.20	0.53
3:I:396:VAL:HG21	3:I:445:ARG:HD3	1.89	0.53
3:I:1326:THR:CG2	3:I:1327:ARG:N	2.71	0.53
1:A:124:ASN:ND2	1:A:127:LEU:HD22	2.22	0.53
3:I:481:MET:CE	3:I:496:LEU:HD23	2.38	0.53
3:N:171:LEU:CD2	3:N:172:PRO:O	2.55	0.53
3:D:788:GLY:O	3:D:792:ILE:HG22	2.08	0.53
2:H:830:LYS:HD2	2:H:832:LYS:HE3	1.89	0.53
2:C:897:LEU:HD22	2:C:920:GLN:HG2	1.88	0.53
2:C:582:GLY:C	2:C:583:LEU:HD12	2.29	0.53
3:N:1352:ILE:O	3:N:1355:VAL:HG23	2.08	0.53
2:M:114:PHE:CG	2:M:114:PHE:O	2.60	0.53
3:N:882:PHE:O	3:N:886:VAL:HG23	2.07	0.53
7:X:105:VAL:HB	7:X:109:GLU:HB3	1.90	0.53
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.71	0.53
3:N:1108:ARG:HG2	3:N:1108:ARG:O	2.07	0.53
2:C:158:TYR:CD1	2:C:158:TYR:N	2.70	0.53
1:L:102:LYS:NZ	1:L:137:ARG:HH12	2.05	0.53
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.43	0.53
2:M:757:GLY:HA2	2:M:789:SER:OG	2.08	0.53
2:C:487:THR:HB	2:C:490:GLU:HG3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:506:GLY:O	3:I:507:ASN:C	2.46	0.53
2:M:97:ARG:CD	2:M:97:ARG:N	2.71	0.53
2:C:1088:LEU:CD2	2:C:1092:LEU:HD12	2.34	0.53
2:C:879:ARG:HH21	7:X:42:ASP:CG	1.80	0.53
3:N:810:GLU:C	3:N:812:ALA:H	2.11	0.53
2:H:165:LEU:HB3	2:H:265:ARG:NH1	2.23	0.53
3:N:501:ALA:HB1	3:N:1453:ALA:HB2	1.90	0.53
2:C:654:LEU:CD2	2:C:654:LEU:H	2.13	0.53
2:H:108:ILE:HG22	2:H:109:LYS:N	2.23	0.53
3:D:1120:VAL:HG23	3:D:1188:VAL:CG1	2.38	0.53
2:C:81:ASP:N	2:C:84:ARG:HH12	2.07	0.53
3:I:766:ALA:HB1	4:J:2:ALA:HB2	1.90	0.53
1:G:170:VAL:CG1	3:I:848:GLU:OE2	2.49	0.53
1:F:221:HIS:HA	1:F:224:TYR:CD2	2.43	0.53
1:K:36:LEU:C	1:K:39:PRO:HD2	2.28	0.53
2:C:473:ARG:CB	2:C:531:PHE:CE1	2.88	0.53
3:D:107:ASP:O	3:D:108:VAL:C	2.46	0.53
2:M:1070:ILE:CG2	3:N:656:PHE:CD1	2.91	0.53
3:I:198:ARG:NH1	3:I:198:ARG:HG3	2.23	0.53
3:D:1128:VAL:O	3:D:1129:THR:HB	2.08	0.53
7:Y:84:GLY:HA2	7:Y:130:LEU:HD11	1.89	0.53
4:E:52:GLU:N	4:E:52:GLU:CD	2.62	0.53
1:K:104:GLU:OE1	1:K:137:ARG:HG2	2.09	0.53
3:I:521:PRO:HB2	3:I:524:LEU:CD1	2.38	0.53
2:C:328:LEU:HD22	2:C:433:THR:O	2.08	0.53
2:M:36:PRO:O	2:M:39:ARG:CB	2.56	0.53
3:D:608:SER:HA	3:D:1443:THR:HG21	1.90	0.53
3:I:86:ARG:O	3:I:87:ARG:NE	2.40	0.53
2:H:1096:ALA:HB1	3:I:12:LEU:HD22	1.90	0.53
2:M:437:ARG:HG2	2:M:467:ILE:O	2.06	0.53
2:M:1086:ARG:NH1	3:N:88:TYR:CG	2.76	0.53
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.31	0.53
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.89	0.53
2:M:572:ILE:HD11	2:M:698:ASP:O	2.08	0.53
2:H:261:ILE:HD12	2:H:262:ALA:H	1.70	0.53
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.24	0.53
2:H:368:THR:HG22	2:H:369:PRO:CD	2.39	0.53
2:C:1075:ASP:OD1	4:E:31:LEU:HD11	2.07	0.53
3:I:1209:LEU:HD23	3:I:1210:SER:N	2.24	0.53
3:I:182:GLY:HA3	3:I:441:ARG:HD3	1.89	0.53
3:I:813:LEU:HD12	3:I:814:ALA:CA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:86:VAL:HG13	1:F:86:VAL:O	2.07	0.53
2:H:18:LEU:N	2:H:18:LEU:HD12	2.20	0.53
2:C:279:GLU:HG3	2:C:280:LYS:N	2.22	0.53
7:Y:57:ARG:O	7:Y:61:ARG:HD3	2.08	0.53
3:N:788:GLY:O	3:N:792:ILE:HG22	2.09	0.53
3:I:9:ARG:HG3	3:I:1456:LYS:HG2	1.90	0.53
2:C:1047:HIS:HA	2:C:1050:GLN:HB3	1.90	0.53
2:H:151:ASP:CG	2:H:152:PRO:CD	2.76	0.53
3:I:1280:VAL:O	3:I:1294:VAL:HA	2.08	0.53
3:I:1295:GLU:CB	3:I:1300:SER:HB3	2.37	0.53
2:H:516:ARG:CZ	3:I:1068:LEU:HD22	2.38	0.53
1:G:58:ILE:HD12	1:G:58:ILE:N	2.23	0.53
2:H:360:LEU:HD23	2:H:360:LEU:N	2.23	0.53
3:I:1401:GLU:CD	3:I:1415:VAL:HG11	2.28	0.53
2:C:725:ASP:O	2:C:727:PRO:HD3	2.08	0.53
1:F:104:GLU:OE1	1:F:137:ARG:HG2	2.09	0.53
3:N:129:PHE:N	3:N:129:PHE:CD1	2.77	0.53
2:M:249:LYS:O	2:M:251:ASP:N	2.41	0.53
2:H:300:ASP:OD2	2:H:303:PHE:HB2	2.09	0.53
2:C:170:PRO:HD3	2:C:263:ASP:CG	2.28	0.53
2:M:870:ILE:HD13	2:M:870:ILE:N	2.24	0.53
2:M:1081:VAL:HG13	2:M:1085:PHE:CB	2.38	0.53
2:M:122:THR:HG22	2:M:123:GLU:N	2.23	0.53
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.38	0.53
2:M:577:PRO:HG3	2:M:993:PHE:CD1	2.43	0.53
2:H:834:GLN:HE22	3:I:724:GLN:CG	2.14	0.53
3:D:804:LEU:CB	3:D:830:ALA:O	2.56	0.53
2:M:63:GLY:HA2	2:M:359:MET:CE	2.38	0.53
2:H:571:LEU:HD11	2:H:700:TYR:CA	2.37	0.53
3:N:543:LEU:CD2	3:N:580:ALA:HB1	2.37	0.53
4:O:30:LEU:O	4:O:35:PHE:HA	2.08	0.53
2:C:338:GLU:CA	2:C:341:THR:HG22	2.39	0.53
2:C:361:MET:HE1	3:I:1317:ASP:HB2	1.91	0.53
3:D:1380:GLU:HB2	3:D:1420:LEU:HD11	1.89	0.53
3:I:1105:ILE:N	3:I:1105:ILE:HD12	2.22	0.53
3:D:1008:PHE:HE2	3:D:1035:ILE:HG21	1.74	0.53
3:I:547:LEU:HD11	3:I:578:VAL:CG2	2.38	0.53
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.70	0.53
3:I:87:ARG:HH11	3:I:87:ARG:HA	1.73	0.53
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.89	0.53
3:N:199:LEU:HD23	3:N:200:ASP:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:135:LEU:HD23	3:N:136:ASP:N	2.24	0.53
3:N:432:TYR:HB3	3:N:450:TYR:CG	2.43	0.53
2:M:278:GLU:HA	2:M:283:ILE:O	2.08	0.53
1:G:42:ARG:CG	1:G:42:ARG:NH1	2.68	0.53
1:B:38:ASN:CB	1:B:39:PRO:HD3	2.37	0.53
3:I:606:ILE:HD11	3:I:613:ARG:NE	2.22	0.53
7:X:90:GLU:O	7:X:152:VAL:HB	2.08	0.53
3:N:1007:VAL:HG11	3:N:1039:CYS:CB	2.36	0.53
2:C:292:ARG:CB	2:C:299:LYS:HE2	2.37	0.53
2:C:378:LEU:O	2:C:381:ALA:HB3	2.08	0.53
3:D:1111:ASP:CG	3:D:1203:LYS:HD2	2.29	0.53
1:A:32:PHE:HZ	1:B:47:SER:HB2	1.73	0.53
5:P:20:DG:C2	5:P:21:DC:N4	2.77	0.53
1:L:16:GLN:HA	1:L:16:GLN:HE21	1.73	0.53
2:H:300:ASP:CG	2:H:300:ASP:O	2.44	0.53
2:H:870:ILE:HD13	2:H:870:ILE:N	2.24	0.53
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.90	0.53
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.91	0.53
2:C:654:LEU:CD1	2:C:663:ASN:C	2.77	0.53
3:I:407:VAL:CG2	3:I:408:GLU:H	2.11	0.53
2:H:99:GLN:HE21	2:H:101:ILE:CD1	2.16	0.53
3:D:1208:ASP:O	3:D:1215:VAL:CG2	2.57	0.53
2:M:890:LEU:HD21	2:M:901:TYR:CD1	2.43	0.53
3:D:813:LEU:HD12	3:D:814:ALA:CA	2.38	0.53
3:N:14:SER:O	3:N:18:ILE:HG12	2.09	0.53
3:D:1144:LEU:HD21	3:D:1186:VAL:HG11	1.90	0.53
3:D:664:LYS:O	3:D:666:ILE:N	2.42	0.53
2:M:611:ILE:CD1	2:M:625:LEU:HD21	2.38	0.53
3:I:789:LEU:CD1	3:I:934:LEU:HD22	2.39	0.53
2:C:455:LEU:HD12	2:C:456:ALA:O	2.09	0.53
3:I:143:ASN:OD1	3:I:161:LEU:HD21	2.08	0.53
3:D:1066:THR:HG23	3:D:1069:GLU:H	1.74	0.53
2:C:269:LEU:HG	2:C:287:GLY:O	2.09	0.53
1:B:23:PHE:O	1:B:196:THR:HA	2.09	0.53
2:M:582:GLY:C	2:M:583:LEU:HD12	2.29	0.53
3:I:996:TRP:HE3	3:I:999:THR:HG21	1.70	0.53
2:C:603:VAL:HG23	2:C:647:GLN:O	2.09	0.53
2:M:754:ILE:N	2:M:754:ILE:CD1	2.71	0.53
3:D:1146:GLY:CA	3:D:1207:TYR:HB3	2.36	0.53
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.90	0.53
2:H:997:LEU:O	2:H:999:HIS:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:810:ASP:HB3	2:C:813:VAL:HG12	1.90	0.53
2:H:212:GLY:O	2:H:214:TYR:N	2.42	0.53
3:D:1018:ASN:O	3:D:1022:VAL:HG23	2.08	0.53
2:H:722:ILE:HD13	2:H:722:ILE:O	2.08	0.53
1:L:16:GLN:HA	1:L:16:GLN:NE2	2.24	0.53
7:X:39:SER:OG	7:X:40:SER:N	2.40	0.53
2:H:850:ALA:HA	3:I:632:VAL:HG13	1.90	0.53
2:C:212:GLY:C	2:C:214:TYR:N	2.62	0.53
3:I:457:GLY:O	3:I:460:ALA:N	2.39	0.53
2:H:592:LEU:N	2:H:592:LEU:HD23	2.23	0.53
3:N:1465:ASN:HD21	3:N:1470:ARG:CZ	2.21	0.53
2:M:139:GLN:HE22	2:M:415:PRO:HD3	1.74	0.53
2:M:1061:GLU:OE1	3:N:84:ILE:CD1	2.56	0.53
2:M:1030:GLN:CD	3:N:628:ARG:HD3	2.27	0.53
2:M:304:LEU:HG	2:M:305:PRO:CD	2.38	0.53
3:I:704:ARG:HB2	3:I:736:PHE:HB3	1.91	0.53
3:D:706:PRO:CG	6:Q:16:G:N2	2.72	0.53
2:H:975:TYR:HA	2:H:982:PRO:HA	1.91	0.53
2:M:836:GLY:CA	2:M:1001:VAL:HG21	2.31	0.53
1:L:141:GLU:OE2	1:L:161:ARG:HD3	2.09	0.53
2:C:284:ARG:HG2	2:C:285:LEU:N	2.22	0.53
7:X:120:SER:HB2	7:X:123:SER:HB2	1.91	0.53
3:N:115:LEU:CD1	3:N:502:PHE:CE1	2.92	0.53
7:Y:57:ARG:CB	7:Y:57:ARG:HH21	2.21	0.53
3:N:835:SER:H	3:N:838:ARG:CD	2.21	0.53
2:H:401:LEU:HD13	2:H:587:VAL:HG11	1.91	0.53
3:I:39:PRO:CB	3:I:45:PHE:HB2	2.38	0.53
2:H:95:TYR:HD2	2:H:114:PHE:HB3	1.74	0.53
2:M:893:ALA:HB2	2:M:918:LEU:HD12	1.90	0.53
2:H:325:ILE:HD12	2:H:325:ILE:H	1.74	0.53
2:C:717:LEU:HD13	2:C:761:PHE:CD2	2.44	0.53
3:I:1283:ILE:HG22	3:I:1284:GLU:H	1.74	0.53
3:N:50:PHE:CD1	3:N:522:PRO:HG3	2.41	0.53
2:C:140:ILE:HG23	2:C:410:ILE:HG21	1.90	0.53
2:M:682:TYR:CE1	2:M:851:LYS:HD3	2.44	0.53
3:N:142:LEU:HD13	3:N:144:GLY:C	2.28	0.53
2:M:206:THR:HG23	2:M:207:LEU:H	1.74	0.53
2:M:197:LEU:HD12	2:M:207:LEU:HD11	1.91	0.53
4:O:15:SER:O	4:O:18:ARG:HB3	2.09	0.53
4:O:18:ARG:O	4:O:22:VAL:HG23	2.09	0.53
1:L:79:ILE:HG13	1:L:80:LEU:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1235:GLN:HB3	7:X:52:LYS:NZ	2.23	0.53
3:D:1101:VAL:CG2	3:D:1424:VAL:HG23	2.38	0.53
2:M:6:PHE:CD1	2:M:6:PHE:N	2.76	0.53
2:M:189:ARG:HE	2:M:189:ARG:HA	1.72	0.53
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.35	0.53
2:H:1014:SER:CB	2:H:1021:LEU:HD13	2.32	0.53
7:Y:74:ILE:HD12	7:Y:75:LEU:N	2.22	0.53
3:D:1286:THR:CG2	3:D:1287:GLU:H	2.17	0.53
2:H:657:ASP:CG	2:H:662:GLU:HA	2.28	0.53
7:Z:120:SER:O	7:Z:123:SER:HB2	2.09	0.53
3:N:799:LYS:O	3:N:826:PRO:HG2	2.09	0.53
3:I:794:GLN:CG	3:I:1017:PHE:HE2	2.21	0.53
3:D:789:LEU:CD1	3:D:934:LEU:HD22	2.39	0.53
3:N:1487:VAL:CG1	3:N:1488:ASP:N	2.71	0.53
3:I:1275:SER:HB2	3:I:1294:VAL:HG21	1.90	0.53
3:N:102:ILE:CD1	3:N:586:ARG:HG3	2.39	0.53
1:L:102:LYS:HZ1	1:L:137:ARG:NH1	2.07	0.53
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.08	0.53
2:C:839:LEU:HD23	2:C:839:LEU:N	2.24	0.53
1:F:25:LEU:CD2	1:F:28:LEU:HD11	2.38	0.53
3:N:50:PHE:CE1	3:N:522:PRO:HG3	2.44	0.53
3:I:520:LEU:CD1	3:I:521:PRO:HD2	2.39	0.53
2:C:135:VAL:C	2:C:136:ILE:HD12	2.29	0.53
2:C:170:PRO:HD3	2:C:263:ASP:OD1	2.08	0.53
2:C:328:LEU:HD13	2:C:433:THR:HB	1.90	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.44	0.53
2:H:1004:LYS:HD2	3:I:744:GLN:CD	2.22	0.53
1:G:76:VAL:HB	3:I:872:ARG:CZ	2.36	0.53
2:M:211:LEU:CD2	2:M:221:LEU:CD2	2.84	0.53
2:C:668:LEU:CD1	2:C:668:LEU:N	2.66	0.53
3:I:465:LEU:CD1	3:I:510:GLU:HA	2.36	0.53
3:D:1098:LEU:HD23	3:D:1229:ILE:HB	1.90	0.53
1:B:65:PHE:CD1	1:B:65:PHE:N	2.77	0.53
2:H:877:PRO:HG3	3:I:1023:MET:SD	2.48	0.53
2:H:859:PRO:HB2	2:H:867:VAL:HG21	1.91	0.53
2:H:455:LEU:HD12	2:H:456:ALA:O	2.09	0.53
3:I:1476:THR:CG2	4:J:21:VAL:HG22	2.35	0.53
2:C:870:ILE:N	2:C:870:ILE:HD13	2.24	0.53
1:A:46:SER:HB3	2:C:856:GLU:HG2	1.89	0.53
2:H:654:LEU:CD1	2:H:663:ASN:C	2.77	0.53
1:A:91:ASN:HD22	1:A:93:SER:HB2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1438:ALA:O	3:N:1443:THR:HG22	2.09	0.53
3:D:1491:THR:O	3:D:1494:ALA:HB3	2.09	0.53
2:M:374:ASN:O	2:M:377:PRO:HD2	2.09	0.53
3:N:506:GLY:O	3:N:507:ASN:C	2.46	0.53
2:H:893:ALA:HB2	2:H:918:LEU:HD12	1.90	0.53
2:C:1046:ALA:CB	3:D:1476:THR:HB	2.39	0.53
3:I:93:ILE:HD11	3:I:519:VAL:HG22	1.91	0.53
3:D:1487:VAL:HG12	3:D:1488:ASP:H	1.74	0.53
2:H:625:LEU:HB3	2:H:639:GLN:HB2	1.90	0.53
3:I:1401:GLU:OE2	3:I:1415:VAL:HG21	2.09	0.53
3:I:701:LEU:HD12	3:I:701:LEU:N	2.24	0.53
2:M:17:PRO:HB2	2:M:20:GLU:HB3	1.91	0.53
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.91	0.53
3:N:787:LEU:O	3:N:787:LEU:HD12	2.09	0.53
3:D:1434:TRP:NE1	3:D:1435:LEU:HD12	2.24	0.53
2:M:139:GLN:HG3	2:M:411:SER:O	2.08	0.53
2:M:157:ARG:HD3	2:M:314:THR:HG1	1.69	0.53
3:N:176:ASP:HB2	3:N:389:GLU:HG2	1.89	0.53
3:D:479:GLU:O	3:D:483:HIS:ND1	2.38	0.53
3:I:1031:ASN:OD1	3:I:1034:GLN:HG3	2.08	0.53
2:C:1081:VAL:HG11	2:C:1111:ILE:HG21	1.90	0.53
2:C:565:GLN:NE2	2:C:842:ARG:CG	2.68	0.53
3:D:1466:VAL:HG12	3:D:1467:ILE:HD13	1.91	0.53
3:I:1312:LEU:HD11	3:I:1327:ARG:HH21	1.67	0.53
3:I:639:LEU:N	3:I:729:HIS:CD2	2.77	0.53
1:A:36:LEU:C	1:A:39:PRO:HD2	2.28	0.53
2:M:455:LEU:HD12	2:M:456:ALA:O	2.09	0.53
1:A:9:PRO:HB3	1:A:25:LEU:CD1	2.38	0.53
3:D:804:LEU:HB2	3:D:831:GLY:HA2	1.90	0.53
3:D:835:SER:H	3:D:838:ARG:CD	2.21	0.53
3:I:980:MET:HB3	3:I:982:PHE:HE2	1.72	0.53
2:H:16:PRO:O	2:H:18:LEU:HD12	2.09	0.53
2:M:1052:MET:SD	3:N:623:VAL:HG21	2.49	0.53
3:N:1288:GLU:HA	3:N:1307:LYS:HD3	1.90	0.53
2:M:64:LEU:HB2	2:M:359:MET:HG3	1.91	0.53
3:N:767:HIS:HA	3:N:924:MET:SD	2.49	0.53
3:N:510:GLU:HB2	3:N:511:TRP:CZ3	2.43	0.53
3:D:696:HIS:NE2	4:E:54:LEU:HD11	2.24	0.53
4:E:48:MET:N	4:E:54:LEU:HB2	2.24	0.53
3:I:1225:ALA:HB2	3:I:1370:ILE:HD12	1.91	0.53
2:M:1071:ILE:O	3:N:659:LYS:HD3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:827:ILE:O	3:D:827:ILE:HG22	2.09	0.53
3:D:787:LEU:HD12	3:D:787:LEU:O	2.09	0.53
2:M:512:ARG:HG2	2:M:523:ILE:HD11	1.89	0.53
3:D:1197:ARG:HB3	3:D:1396:GLU:OE2	2.09	0.53
3:N:1033:GLN:OE1	3:N:1033:GLN:HA	2.08	0.53
3:N:32:ILE:HG12	3:N:39:PRO:HA	1.91	0.53
3:I:1087:ARG:HB2	3:I:1237:THR:CG2	2.39	0.53
2:M:606:VAL:CG2	2:M:645:VAL:HG22	2.39	0.53
3:I:192:ALA:HB1	3:I:193:PRO:HD2	1.91	0.53
2:C:170:PRO:HD3	2:C:263:ASP:CB	2.38	0.52
3:I:134:VAL:CG2	3:I:460:ALA:CB	2.84	0.52
2:C:879:ARG:NE	7:X:42:ASP:OD1	2.40	0.52
3:D:484:PRO:HB2	3:D:488:ARG:HG3	1.91	0.52
2:M:191:PHE:CZ	2:M:196:LEU:HD12	2.43	0.52
4:E:31:LEU:HB3	4:E:35:PHE:CE1	2.44	0.52
2:H:579:VAL:CG1	2:H:887:GLU:HG3	2.37	0.52
1:B:73:GLU:OE1	1:B:131:THR:N	2.43	0.52
1:F:18:ARG:HH22	1:F:88:ARG:NH2	2.06	0.52
3:D:15:PRO:O	3:D:19:ARG:HG2	2.09	0.52
3:N:1084:THR:HB	3:N:1087:ARG:NH1	2.24	0.52
3:N:356:PRO:CB	3:N:441:ARG:HA	2.39	0.52
3:I:1256:LEU:CG	3:I:1260:ILE:HD11	2.34	0.52
2:H:92:ALA:N	2:H:118:ILE:O	2.38	0.52
1:F:91:ASN:HD22	1:F:93:SER:HB2	1.74	0.52
1:K:156:HIS:CD2	1:K:158:ILE:HD12	2.44	0.52
2:C:516:ARG:HG3	3:D:1068:LEU:HD13	1.90	0.52
3:D:510:GLU:HB2	3:D:511:TRP:CZ3	2.43	0.52
3:D:701:LEU:N	3:D:701:LEU:HD12	2.24	0.52
1:G:190:THR:N	3:I:722:GLU:OE1	2.39	0.52
2:H:582:GLY:C	2:H:583:LEU:HD12	2.28	0.52
2:H:516:ARG:HH11	2:H:521:PRO:HB3	1.74	0.52
2:C:500:ASN:HD22	2:C:500:ASN:N	2.05	0.52
3:N:36:THR:C	3:N:38:LYS:N	2.59	0.52
4:O:49:GLN:N	4:O:49:GLN:CD	2.61	0.52
2:H:1047:HIS:HA	2:H:1050:GLN:HB3	1.91	0.52
3:D:50:PHE:CD1	3:D:522:PRO:CG	2.92	0.52
3:N:141:ILE:HD13	3:N:142:LEU:CA	2.39	0.52
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.44	0.52
3:D:1256:LEU:O	3:D:1259:VAL:N	2.42	0.52
3:D:1484:THR:HG21	4:E:22:VAL:HG22	1.90	0.52
1:B:74:ASP:O	1:B:78:ILE:HG13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:208:LEU:HD23	1:F:212:ASN:OD1	2.09	0.52
1:F:56:VAL:CG1	1:F:142:VAL:HG12	2.27	0.52
4:J:19:LEU:O	4:J:23:VAL:HG23	2.09	0.52
3:N:729:HIS:CG	3:N:730:PRO:HD2	2.44	0.52
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.44	0.52
3:D:638:LYS:HD3	3:D:932:ASP:CG	2.30	0.52
2:H:352:ALA:HA	2:H:355:VAL:CG1	2.40	0.52
1:A:208:LEU:HD23	1:A:212:ASN:OD1	2.09	0.52
1:B:133:GLU:HG3	1:B:134:GLU:N	2.19	0.52
2:C:893:ALA:HB2	2:C:918:LEU:HD12	1.91	0.52
2:C:54:ILE:HD11	2:C:356:ARG:HG3	1.90	0.52
3:N:1197:ARG:HB3	3:N:1396:GLU:OE2	2.09	0.52
2:M:478:VAL:HA	2:M:506:ASN:O	2.09	0.52
2:M:295:ASP:C	2:M:297:GLU:H	2.13	0.52
2:H:839:LEU:N	2:H:839:LEU:HD23	2.25	0.52
3:D:918:ALA:HB3	3:D:927:THR:HG23	1.91	0.52
3:D:794:GLN:HG2	3:D:1017:PHE:HE2	1.73	0.52
2:H:182:VAL:CB	2:H:193:LEU:HD22	2.38	0.52
3:I:525:ARG:HD3	3:I:525:ARG:N	2.23	0.52
3:I:1026:SER:C	3:I:1028:ALA:N	2.63	0.52
2:M:98:LEU:N	2:M:98:LEU:CD1	2.72	0.52
3:N:632:VAL:CG2	3:N:725:SER:HB2	2.40	0.52
3:I:617:ASN:ND2	3:I:1467:ILE:O	2.42	0.52
3:N:87:ARG:HD2	3:N:88:TYR:HE2	1.74	0.52
3:N:152:LEU:O	3:N:152:LEU:HD23	2.09	0.52
7:Z:85:LEU:HD21	7:Z:121:ASP:HB2	1.90	0.52
3:I:1442:ASN:O	3:I:1446:VAL:HG23	2.09	0.52
1:G:112:ARG:HG3	1:G:125:PRO:HA	1.92	0.52
3:N:1481:VAL:HG22	4:O:18:ARG:NH2	2.24	0.52
1:K:208:LEU:HD23	1:K:212:ASN:OD1	2.08	0.52
3:D:162:ARG:CG	3:D:452:ILE:HG13	2.31	0.52
3:D:1352:ILE:HG21	3:D:1368:ILE:HD12	1.91	0.52
3:D:809:PRO:CB	3:D:812:ALA:HB2	2.25	0.52
1:B:79:ILE:HD12	1:B:83:LYS:CE	2.39	0.52
2:M:113:VAL:HG11	2:M:373:VAL:HB	1.91	0.52
3:I:1272:ALA:CA	3:I:1326:THR:HB	2.39	0.52
2:C:975:TYR:HA	2:C:982:PRO:HA	1.91	0.52
1:K:124:ASN:ND2	1:K:127:LEU:HD22	2.23	0.52
2:M:975:TYR:HA	2:M:982:PRO:HA	1.91	0.52
2:M:611:ILE:CG1	2:M:625:LEU:HD21	2.39	0.52
7:Y:75:LEU:HD12	7:Y:75:LEU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:664:LYS:O	3:I:666:ILE:N	2.42	0.52
2:M:654:LEU:CD1	2:M:663:ASN:C	2.77	0.52
1:A:156:HIS:CD2	1:A:158:ILE:HD12	2.44	0.52
3:N:107:ASP:O	3:N:108:VAL:C	2.46	0.52
3:D:553:ARG:HH12	3:D:573:MET:HE2	1.75	0.52
2:H:1049:LEU:O	2:H:1053:LEU:HG	2.09	0.52
3:I:1197:ARG:HB3	3:I:1396:GLU:OE2	2.09	0.52
2:M:471:TYR:CE1	2:M:496:ILE:HG12	2.44	0.52
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.23	0.52
2:M:398:THR:HG21	2:M:998:TYR:HB2	1.91	0.52
2:M:906:PHE:CE1	3:N:1067:VAL:HG13	2.44	0.52
4:E:19:LEU:HD12	4:E:23:VAL:HG23	1.90	0.52
2:M:728:HIS:O	2:M:729:LEU:CD2	2.57	0.52
3:N:150:ARG:HB2	3:N:150:ARG:HH11	1.74	0.52
3:I:151:GLN:C	3:I:152:LEU:HD23	2.30	0.52
2:M:461:VAL:HG13	2:M:465:GLY:O	2.09	0.52
2:C:564:MET:HE2	2:C:846:LYS:CD	2.38	0.52
2:C:687:ALA:HB1	2:C:850:ALA:HB2	1.90	0.52
3:I:1352:ILE:HG21	3:I:1368:ILE:HD12	1.91	0.52
2:M:184:MET:HB2	2:M:193:LEU:CD2	2.39	0.52
3:D:704:ARG:HB2	3:D:736:PHE:HB3	1.91	0.52
1:F:124:ASN:ND2	1:F:127:LEU:HD22	2.23	0.52
3:I:1109:GLU:HG2	3:I:1201:CYS:CB	2.39	0.52
3:I:1101:VAL:CG2	3:I:1424:VAL:HG23	2.39	0.52
3:I:15:PRO:O	3:I:19:ARG:HG2	2.09	0.52
2:M:585:GLU:O	2:M:588:VAL:HG22	2.10	0.52
1:F:91:ASN:ND2	1:F:93:SER:H	2.07	0.52
3:I:800:LYS:HE2	3:I:804:LEU:HD22	1.91	0.52
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.40	0.52
2:C:602:GLU:HG3	2:C:603:VAL:H	1.75	0.52
3:I:853:VAL:HG13	3:I:858:VAL:O	2.10	0.52
2:M:616:GLU:OE1	2:M:616:GLU:HA	2.09	0.52
2:C:1050:GLN:CD	2:C:1079:PRO:HG2	2.29	0.52
3:N:789:LEU:CD1	3:N:934:LEU:HD22	2.39	0.52
3:N:827:ILE:HG22	3:N:827:ILE:O	2.09	0.52
1:G:16:GLN:HA	1:G:16:GLN:NE2	2.24	0.52
1:L:73:GLU:OE1	1:L:130:ALA:HA	2.10	0.52
3:N:918:ALA:HB3	3:N:927:THR:HG23	1.91	0.52
2:M:839:LEU:N	2:M:839:LEU:HD23	2.25	0.52
3:D:1434:TRP:CZ3	3:D:1457:ASP:N	2.78	0.52
3:I:1099:VAL:O	3:I:1103:HIS:HB3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:104:PHE:O	3:I:112:ILE:HG22	2.10	0.52
2:M:258:TYR:CZ	2:M:290:LEU:HD11	2.44	0.52
2:M:254:VAL:HA	2:M:257:VAL:CG2	2.39	0.52
2:H:172:ILE:N	2:H:172:ILE:CD1	2.72	0.52
3:N:704:ARG:HB2	3:N:736:PHE:HB3	1.91	0.52
3:N:639:LEU:N	3:N:729:HIS:CD2	2.78	0.52
5:T:19:DC:O2	6:U:12:G:O6	2.28	0.52
3:I:729:HIS:HE2	3:I:935:LYS:HD3	1.73	0.52
1:F:40:LEU:HA	1:F:43:ILE:HD12	1.91	0.52
2:M:21:ILE:HD12	2:M:21:ILE:N	2.14	0.52
2:H:469:THR:HG23	2:H:470:PRO:CD	2.37	0.52
1:K:91:ASN:ND2	1:K:93:SER:H	2.07	0.52
3:I:997:THR:CG2	7:Y:61:ARG:HH12	2.22	0.52
3:I:1018:ASN:O	3:I:1022:VAL:HG23	2.08	0.52
3:I:957:PRO:CG	3:I:1007:VAL:HG22	2.39	0.52
1:F:13:VAL:O	1:G:230:ALA:HA	2.09	0.52
2:H:524:VAL:HG12	2:H:525:SER:H	1.70	0.52
1:G:109:VAL:CG2	1:G:132:LEU:HD13	2.40	0.52
2:M:212:GLY:C	2:M:214:TYR:N	2.63	0.52
2:H:212:GLY:C	2:H:214:TYR:N	2.63	0.52
2:H:249:LYS:O	2:H:251:ASP:N	2.43	0.52
3:N:1401:GLU:OE2	3:N:1415:VAL:HG21	2.09	0.52
3:I:923:GLY:O	3:I:927:THR:OG1	2.28	0.52
1:G:161:ARG:HB2	1:G:164:ALA:HB2	1.92	0.52
2:H:679:PHE:C	3:I:943:THR:HG22	2.29	0.52
2:C:170:PRO:HG2	2:C:258:TYR:HD1	1.66	0.52
2:M:668:LEU:H	2:M:668:LEU:HD12	1.73	0.52
2:H:139:GLN:NE2	2:H:414:GLY:HA3	2.24	0.52
2:H:115:LEU:HA	2:H:375:SER:CB	2.38	0.52
3:I:1031:ASN:HB3	3:I:1034:GLN:OE1	2.09	0.52
2:H:834:GLN:NE2	3:I:724:GLN:HG3	2.15	0.52
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.39	0.52
3:D:14:SER:O	3:D:18:ILE:HG12	2.09	0.52
3:I:1292:VAL:HG23	3:I:1305:LEU:HG	1.92	0.52
3:I:729:HIS:CG	3:I:730:PRO:HD2	2.44	0.52
3:D:639:LEU:N	3:D:729:HIS:CD2	2.78	0.52
1:F:85:LEU:HA	1:F:124:ASN:ND2	2.25	0.52
1:A:74:ASP:OD1	1:A:77:GLU:HB2	2.09	0.52
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.22	0.52
3:N:1173:LEU:HD12	3:N:1176:LYS:NZ	2.25	0.52
3:I:1295:GLU:OE2	3:I:1295:GLU:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:31:GLY:O	1:K:34:VAL:HG13	2.10	0.52
3:D:1173:LEU:HD12	3:D:1176:LYS:NZ	2.24	0.52
1:K:38:ASN:HB2	2:M:980:GLY:HA3	1.92	0.52
3:N:1150:ALA:HB3	3:N:1187:PRO:HB2	1.92	0.52
2:H:439:CYS:HB2	2:H:541:SER:HB2	1.92	0.52
3:D:166:GLN:HB2	2:H:210:GLU:OE2	2.10	0.52
2:H:224:GLU:HB3	2:H:228:ALA:CB	2.39	0.52
2:C:182:VAL:HG11	2:C:193:LEU:HB2	1.91	0.52
2:C:202:TYR:CZ	2:C:304:LEU:HD22	2.43	0.52
2:C:336:VAL:HA	2:C:339:LEU:HD12	1.91	0.52
2:M:111:ASP:OD2	2:M:369:PRO:HG2	2.06	0.52
3:D:11:ALA:HB1	3:D:507:ASN:ND2	2.25	0.52
3:D:123:LEU:O	3:D:126:VAL:HB	2.09	0.52
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.22	0.52
2:M:1083:GLU:HG3	3:N:87:ARG:NH1	2.25	0.52
2:M:1092:LEU:CD1	2:M:1099:VAL:HG21	2.14	0.52
3:D:1225:ALA:HB2	3:D:1370:ILE:HD12	1.91	0.52
2:H:437:ARG:CG	2:H:467:ILE:HG22	2.40	0.52
3:N:15:PRO:O	3:N:19:ARG:HG2	2.09	0.52
2:H:170:PRO:CD	2:H:263:ASP:CB	2.74	0.52
1:F:20:TYR:HE2	1:F:198:ARG:HB2	1.75	0.52
7:Z:102:VAL:CG1	7:Z:103:GLN:N	2.73	0.52
3:N:1326:THR:CG2	3:N:1327:ARG:N	2.71	0.52
6:U:15:G:O2'	6:U:16:G:H5'	2.10	0.52
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.40	0.52
3:N:683:ILE:HG21	3:N:688:TRP:CE2	2.45	0.52
3:I:496:LEU:HD12	3:I:496:LEU:O	2.10	0.52
3:I:1112:CYS:HB3	3:I:1201:CYS:SG	2.49	0.52
2:C:958:THR:HG23	2:C:961:GLU:HG2	1.89	0.52
3:I:1066:THR:HG23	3:I:1069:GLU:H	1.73	0.52
3:N:701:LEU:N	3:N:701:LEU:HD12	2.24	0.52
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.74	0.52
3:N:826:PRO:HD2	3:N:829:VAL:CG2	2.40	0.52
3:I:996:TRP:HA	3:I:999:THR:CG2	2.40	0.52
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.39	0.52
3:N:794:GLN:HG2	3:N:1017:PHE:HE2	1.73	0.52
3:D:957:PRO:HG2	3:D:1007:VAL:CG2	2.40	0.52
3:I:1149:LEU:HG	3:I:1166:LEU:CD2	2.39	0.52
2:M:75:GLU:O	2:M:93:PRO:HD3	2.10	0.52
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.45	0.52
4:O:59:ASN:ND2	4:O:62:THR:OG1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:371:ILE:HG13	3:N:372:ASP:N	2.24	0.52
3:N:215:TYR:CE2	3:N:343:LYS:HB2	2.44	0.52
1:B:16:GLN:NE2	1:B:16:GLN:HA	2.24	0.52
1:A:104:GLU:OE1	1:A:137:ARG:HG2	2.09	0.52
2:M:439:CYS:HB2	2:M:541:SER:HB2	1.91	0.52
2:M:553:ASP:OD2	2:M:883:GLY:N	2.40	0.52
1:B:176:ARG:HG3	1:B:200:TRP:CE3	2.44	0.52
3:I:139:GLY:O	3:I:162:ARG:NH2	2.34	0.52
3:D:116:LEU:CD1	3:D:461:ILE:HG23	2.40	0.52
2:C:879:ARG:CZ	7:X:42:ASP:HB2	2.39	0.52
3:N:191:LEU:HD13	3:N:393:ILE:HB	1.92	0.52
3:N:111:LYS:HD3	3:N:1448:THR:HG22	1.91	0.52
2:H:1056:LYS:CD	3:I:623:VAL:HG13	2.38	0.52
2:C:115:LEU:HA	2:C:375:SER:CB	2.39	0.52
1:B:80:LEU:HD12	1:B:83:LYS:HE3	1.90	0.52
3:I:203:ALA:HA	3:I:395:VAL:HA	1.92	0.52
3:I:205:TYR:HA	3:I:393:ILE:HA	1.92	0.52
4:J:30:LEU:O	4:J:35:PHE:HA	2.08	0.52
1:A:40:LEU:HA	1:A:43:ILE:HD12	1.92	0.52
2:M:657:ASP:CG	2:M:663:ASN:H	2.13	0.52
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.40	0.52
3:D:853:VAL:HG13	3:D:858:VAL:O	2.10	0.52
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.35	0.52
2:H:726:ILE:HG12	2:H:734:LEU:HD21	1.92	0.52
2:H:474:VAL:HG13	2:H:474:VAL:O	2.10	0.52
7:Y:19:LEU:O	7:Y:23:ARG:HG3	2.10	0.52
1:K:183:ASP:OD1	1:K:183:ASP:N	2.30	0.52
2:M:178:PRO:O	2:M:180:GLY:N	2.43	0.52
2:C:154:ARG:NH2	2:C:178:PRO:HD3	2.24	0.52
3:N:1189:ARG:HG3	3:N:1189:ARG:NH1	2.24	0.52
2:M:430:VAL:HG13	3:N:1075:HIS:HD1	1.74	0.52
3:I:1189:ARG:HG3	3:I:1189:ARG:NH1	2.25	0.52
1:K:117:VAL:HB	1:K:120:VAL:HG13	1.92	0.52
3:I:787:LEU:O	3:I:787:LEU:HD12	2.09	0.52
2:C:249:LYS:O	2:C:250:ARG:C	2.48	0.52
2:M:97:ARG:C	2:M:98:LEU:HD12	2.30	0.52
3:N:84:ILE:O	3:N:87:ARG:HG3	2.10	0.52
2:H:140:ILE:HD11	2:H:412:ALA:CA	2.35	0.52
2:H:186:VAL:HG23	2:H:186:VAL:O	2.09	0.52
2:H:290:LEU:HB3	2:H:302:VAL:CG1	2.24	0.52
2:H:304:LEU:CD2	2:H:305:PRO:HD3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:40:LEU:HA	1:K:43:ILE:HD12	1.91	0.52
2:H:657:ASP:CG	2:H:663:ASN:H	2.14	0.52
2:H:383:ARG:HH11	2:H:383:ARG:CB	2.18	0.52
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.74	0.52
3:N:1496:GLU:HA	3:N:1499:ARG:CZ	2.39	0.52
2:C:442:GLU:CG	2:C:454:SER:HB2	2.40	0.52
3:I:1173:LEU:HD12	3:I:1176:LYS:NZ	2.25	0.52
3:D:781:PRO:HB2	3:D:786:ILE:CD1	2.40	0.52
2:H:516:ARG:HG3	3:I:1068:LEU:CD1	2.40	0.52
3:N:372:ASP:C	3:N:374:GLU:N	2.63	0.52
3:I:918:ALA:HB3	3:I:927:THR:HG23	1.91	0.52
4:O:38:THR:OG1	4:O:39:VAL:N	2.42	0.52
3:D:1132:LEU:N	3:D:1132:LEU:HD12	2.24	0.52
1:L:122:ILE:HD12	1:L:122:ILE:N	2.25	0.52
3:I:1146:GLY:CA	3:I:1207:TYR:HB2	2.40	0.52
2:M:252:LYS:O	2:M:255:ALA:N	2.39	0.52
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.45	0.52
2:H:1081:VAL:HG13	2:H:1085:PHE:CB	2.38	0.52
3:I:632:VAL:CG2	3:I:725:SER:HB2	2.39	0.52
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.40	0.52
2:M:84:ARG:NE	2:M:133:ASP:OD2	2.41	0.52
2:M:157:ARG:CD	2:M:314:THR:OG1	2.45	0.52
3:N:414:ARG:HB3	3:N:450:TYR:CE1	2.46	0.52
2:H:165:LEU:HG	2:H:166:PRO:HA	1.92	0.52
1:F:20:TYR:HD2	1:F:21:GLY:H	1.56	0.52
4:J:9:LEU:HB3	4:J:19:LEU:CD2	2.40	0.52
3:I:1001:GLU:OE2	7:Y:25:ARG:NH2	2.42	0.52
3:D:1109:GLU:HG3	3:D:1217:ILE:CD1	2.40	0.52
2:H:359:MET:O	2:H:359:MET:SD	2.69	0.52
2:M:21:ILE:CD1	2:M:21:ILE:H	2.10	0.52
1:F:156:HIS:CD2	1:F:158:ILE:HD12	2.44	0.52
1:A:91:ASN:ND2	1:A:93:SER:H	2.07	0.52
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.25	0.52
3:D:996:TRP:HA	3:D:999:THR:CG2	2.40	0.52
2:C:897:LEU:HD11	2:C:917:LEU:O	2.10	0.52
2:C:1019:GLN:CD	3:D:621:LYS:HD2	2.30	0.52
3:N:1493:LYS:O	3:N:1497:GLU:HG3	2.09	0.52
3:I:1098:LEU:HD23	3:I:1229:ILE:HB	1.91	0.52
2:C:345:ARG:HA	2:C:348:LEU:HB2	1.92	0.52
3:D:1168:MET:HA	3:D:1168:MET:CE	2.38	0.52
3:I:686:GLU:HA	3:I:689:ASP:OD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1043:TYR:CD2	3:D:710:ARG:HD2	2.45	0.52
2:M:102:HIS:O	2:M:104:ASP:O	2.28	0.52
1:L:146:ARG:O	1:L:146:ARG:HG3	2.10	0.52
2:M:501:THR:HG22	2:M:513:VAL:HG13	1.92	0.52
3:N:607:LEU:HD23	3:N:613:ARG:HB2	1.91	0.52
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.92	0.52
3:I:543:LEU:HD21	3:I:600:LEU:CB	2.38	0.51
3:D:133:ILE:CG2	3:D:134:VAL:H	2.23	0.51
2:H:50:GLU:HG2	2:H:51:THR:N	2.25	0.51
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.39	0.51
1:L:59:GLU:HG3	1:L:60:ASP:N	2.21	0.51
2:M:202:TYR:CZ	2:M:304:LEU:HD23	2.44	0.51
3:D:1105:ILE:N	3:D:1105:ILE:CD1	2.72	0.51
2:M:859:PRO:HB2	2:M:867:VAL:HG21	1.91	0.51
3:D:1122:LEU:CD1	3:D:1122:LEU:N	2.73	0.51
1:F:198:ARG:NH2	2:H:934:PHE:CD1	2.78	0.51
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.40	0.51
2:M:861:LEU:HD23	2:M:863:ASP:N	2.23	0.51
3:I:1110:ALA:O	3:I:1111:ASP:C	2.48	0.51
3:D:623:VAL:HG12	3:D:624:ASP:O	2.10	0.51
3:N:465:LEU:CD1	3:N:510:GLU:HA	2.36	0.51
2:H:351:LEU:HD12	2:H:374:ASN:HD21	1.74	0.51
1:F:12:THR:OG1	1:F:24:VAL:HB	2.09	0.51
2:C:524:VAL:HG13	2:C:528:GLU:OE1	2.10	0.51
3:I:1156:LEU:CD1	3:I:1176:LYS:HE3	2.40	0.51
4:J:41:GLU:O	4:J:42:PRO:O	2.28	0.51
2:C:997:LEU:C	2:C:999:HIS:N	2.64	0.51
1:A:189:ARG:NH1	1:A:189:ARG:CG	2.72	0.51
3:D:1189:ARG:HG3	3:D:1189:ARG:NH1	2.25	0.51
1:F:117:VAL:HB	1:F:120:VAL:HG13	1.92	0.51
1:F:99:LEU:HB3	1:F:114:PHE:CD2	2.45	0.51
2:H:278:GLU:HA	2:H:283:ILE:O	2.10	0.51
3:I:141:ILE:HD11	3:I:448:GLU:OE2	2.10	0.51
3:I:87:ARG:CG	3:I:523:ASP:CB	2.76	0.51
2:C:881:ASN:O	2:C:884:GLN:HG3	2.11	0.51
3:D:632:VAL:CG2	3:D:725:SER:HB2	2.39	0.51
3:D:950:GLY:O	3:D:953:ASP:HB2	2.10	0.51
2:H:101:ILE:CD1	2:H:108:ILE:HG23	2.39	0.51
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.76	0.51
2:M:897:LEU:CD2	2:M:920:GLN:HG2	2.40	0.51
2:H:435:TYR:O	2:H:437:ARG:HD2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:190:GLU:HG2	3:I:196:VAL:HG22	1.92	0.51
3:D:1114:THR:CG2	3:D:1114:THR:O	2.58	0.51
3:D:826:PRO:HD2	3:D:829:VAL:CG2	2.40	0.51
2:C:278:GLU:HA	2:C:283:ILE:O	2.10	0.51
3:N:1066:THR:HG23	3:N:1069:GLU:H	1.74	0.51
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.45	0.51
4:E:47:LYS:O	4:E:54:LEU:HD12	2.11	0.51
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.75	0.51
1:L:23:PHE:O	1:L:196:THR:HA	2.08	0.51
3:N:1492:LEU:HD12	3:N:1493:LYS:CE	2.40	0.51
3:N:853:VAL:HG13	3:N:858:VAL:O	2.10	0.51
2:H:524:VAL:HG13	2:H:528:GLU:OE1	2.10	0.51
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.92	0.51
2:M:214:TYR:HD1	2:M:215:GLY:N	2.09	0.51
1:G:176:ARG:HG3	1:G:200:TRP:CE3	2.44	0.51
2:M:685:GLU:OE2	3:N:783:ARG:HD2	2.09	0.51
3:D:136:ASP:CG	3:D:137:PRO:N	2.63	0.51
2:M:143:SER:HB3	2:M:332:ARG:HB2	1.92	0.51
2:M:435:TYR:O	2:M:437:ARG:HD2	2.10	0.51
2:C:679:PHE:HB2	2:C:683:ASN:ND2	2.23	0.51
3:N:165:LYS:HZ2	3:N:199:LEU:HB3	1.75	0.51
3:N:204:LEU:O	3:N:393:ILE:HG23	2.11	0.51
2:C:654:LEU:HD23	2:C:654:LEU:N	2.17	0.51
2:C:668:LEU:HD12	2:C:668:LEU:H	1.73	0.51
4:J:54:LEU:HD23	4:J:58:PRO:CG	2.41	0.51
2:H:328:LEU:N	2:H:328:LEU:CD1	2.72	0.51
2:C:98:LEU:HD21	2:C:113:VAL:CG2	2.39	0.51
6:U:14:C:H2'	6:U:15:G:H8	1.75	0.51
1:F:58:ILE:HG21	1:F:68:ILE:CD1	2.40	0.51
2:M:317:VAL:O	2:M:317:VAL:HG12	2.11	0.51
2:C:861:LEU:HA	2:C:974:LEU:HD12	1.92	0.51
1:G:52:ALA:HB2	1:G:170:VAL:O	2.10	0.51
3:N:496:LEU:O	3:N:496:LEU:HD12	2.10	0.51
2:H:294:GLU:CG	2:H:295:ASP:OD2	2.58	0.51
3:D:980:MET:HB3	3:D:982:PHE:HE2	1.72	0.51
7:Y:90:GLU:O	7:Y:91:LEU:HD23	2.10	0.51
2:C:473:ARG:CA	2:C:531:PHE:CD1	2.92	0.51
2:C:501:THR:CG2	2:C:513:VAL:CG1	2.88	0.51
3:I:820:GLU:CB	3:I:836:VAL:HG21	2.40	0.51
2:C:1030:GLN:HE21	3:D:628:ARG:CD	2.23	0.51
2:H:997:LEU:HD22	2:H:997:LEU:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:705:ALA:CB	3:I:706:PRO:CD	2.89	0.51
1:B:101:LEU:HD12	1:B:114:PHE:N	2.25	0.51
3:N:1155:VAL:HG12	3:N:1177:ALA:CB	2.39	0.51
3:D:1401:GLU:OE2	3:D:1415:VAL:HG21	2.10	0.51
3:D:923:GLY:O	3:D:927:THR:OG1	2.28	0.51
7:Z:128:ALA:HB2	7:Z:140:LEU:HD11	1.91	0.51
3:D:1393:GLN:OE1	3:D:1397:LYS:HD2	2.10	0.51
2:C:186:VAL:O	2:C:186:VAL:HG23	2.10	0.51
2:C:249:LYS:O	2:C:251:ASP:N	2.44	0.51
2:C:327:HIS:CE1	2:C:433:THR:HG21	2.45	0.51
3:N:996:TRP:HA	3:N:999:THR:CG2	2.40	0.51
2:M:878:SER:HB3	3:N:1029:ARG:CZ	2.40	0.51
3:I:610:LYS:O	3:I:615:ARG:HG2	2.09	0.51
3:N:186:VAL:HG12	3:N:187:LYS:N	2.25	0.51
3:N:205:TYR:CD1	3:N:390:PRO:HG3	2.45	0.51
3:I:614:PHE:CE2	3:I:1438:ALA:HB1	2.46	0.51
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.26	0.51
3:D:805:GLU:O	3:D:809:PRO:HD2	2.09	0.51
2:H:31:GLN:OE1	2:H:39:ARG:HA	2.11	0.51
3:I:1256:LEU:HB3	3:I:1257:PRO:CD	2.36	0.51
3:I:95:LEU:HD21	3:I:574:LEU:HD11	1.93	0.51
3:I:1381:VAL:O	3:I:1389:LEU:O	2.28	0.51
2:H:15:LEU:O	2:H:586:ARG:NH2	2.44	0.51
3:N:1356:TYR:HD2	3:N:1361:VAL:HG11	1.76	0.51
3:N:1252:ILE:CG1	3:N:1253:THR:H	2.23	0.51
3:N:1352:ILE:HG21	3:N:1368:ILE:HD12	1.91	0.51
3:N:1225:ALA:HB2	3:N:1370:ILE:HD12	1.91	0.51
3:N:1496:GLU:HB2	3:N:1499:ARG:NH2	2.24	0.51
2:H:474:VAL:HG11	2:H:529:VAL:HG12	1.91	0.51
1:G:48:ILE:CD1	1:G:48:ILE:H	2.23	0.51
1:F:101:LEU:HG	1:F:102:LYS:N	2.25	0.51
3:N:1235:GLN:HG3	7:Z:43:TYR:OH	2.11	0.51
3:I:477:LEU:HD22	3:I:492:ALA:CB	2.40	0.51
2:C:344:PHE:CZ	2:C:378:LEU:HD21	2.45	0.51
2:M:997:LEU:O	2:M:999:HIS:N	2.41	0.51
3:D:1001:GLU:OE2	7:X:25:ARG:NH2	2.43	0.51
3:N:918:ALA:CB	3:N:927:THR:HG23	2.41	0.51
7:Y:64:SER:O	7:Y:68:ILE:HG12	2.10	0.51
1:L:110:LYS:HD3	1:L:126:ASP:HA	1.93	0.51
3:D:368:VAL:HB	3:D:377:VAL:CB	2.40	0.51
3:I:1465:ASN:ND2	3:I:1470:ARG:NH2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1097:LEU:HD13	3:D:1451:ALA:HB1	1.92	0.51
2:C:1099:VAL:HG22	3:D:10:ILE:CD1	2.41	0.51
1:G:83:LYS:HD3	3:I:844:ALA:CB	2.39	0.51
2:H:1088:LEU:CD2	2:H:1092:LEU:HD12	2.34	0.51
4:O:18:ARG:HH21	4:O:18:ARG:CB	2.17	0.51
2:M:897:LEU:HD11	2:M:917:LEU:O	2.10	0.51
1:F:88:ARG:HH12	1:F:90:LEU:HD11	1.76	0.51
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.25	0.51
2:H:838:LYS:HD3	2:H:846:LYS:HZ3	1.75	0.51
2:H:64:LEU:HD13	2:H:359:MET:HG2	1.92	0.51
2:C:71:TYR:O	2:C:71:TYR:CD1	2.63	0.51
3:N:172:PRO:HD3	3:N:195:VAL:HG23	1.91	0.51
2:H:295:ASP:C	2:H:297:GLU:H	2.14	0.51
4:O:54:LEU:O	4:O:54:LEU:CD2	2.59	0.51
3:D:496:LEU:O	3:D:496:LEU:HD12	2.10	0.51
2:H:374:ASN:N	2:H:374:ASN:ND2	2.59	0.51
4:O:27:ALA:HA	4:O:30:LEU:HD12	1.91	0.51
4:O:26:ARG:NH1	4:O:73:LEU:HD23	2.26	0.51
1:B:52:ALA:HB1	1:B:170:VAL:H	1.76	0.51
3:I:827:ILE:HG22	3:I:827:ILE:O	2.10	0.51
3:I:26:VAL:HG21	3:I:519:VAL:HG21	1.93	0.51
3:N:1109:GLU:HG3	3:N:1217:ILE:CD1	2.41	0.51
2:M:462:ASP:HB2	2:M:468:ARG:HH11	1.74	0.51
3:N:660:LYS:HA	3:N:660:LYS:HZ1	1.76	0.51
3:D:1198:TYR:HE1	3:D:1432:LYS:HZ1	1.58	0.51
3:N:611:GLN:O	3:N:611:GLN:HG3	2.10	0.51
3:D:400:VAL:O	3:D:400:VAL:HG13	2.09	0.51
2:H:1081:VAL:HG12	2:H:1085:PHE:HB3	1.93	0.51
2:H:679:PHE:C	3:I:943:THR:CG2	2.79	0.51
2:C:252:LYS:O	2:C:255:ALA:N	2.39	0.51
3:D:1437:ALA:HB1	3:D:1446:VAL:CG2	2.40	0.51
3:N:167:GLU:OE1	3:N:198:ARG:HB2	2.10	0.51
3:N:133:ILE:HG23	3:N:455:ARG:C	2.31	0.51
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.93	0.51
2:H:115:LEU:HA	2:H:375:SER:OG	2.10	0.51
2:H:115:LEU:HD12	2:H:378:LEU:CD2	2.41	0.51
2:H:332:ARG:HE	2:H:464:LEU:HD12	1.76	0.51
3:N:407:VAL:CG2	3:N:408:GLU:H	2.05	0.51
2:C:1038:TRP:CE2	3:D:1099:VAL:HG11	2.46	0.51
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.92	0.51
2:C:939:ARG:NE	2:C:939:ARG:HA	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:859:PRO:HB2	2:C:867:VAL:HG21	1.91	0.51
1:K:91:ASN:HD22	1:K:93:SER:HB2	1.75	0.51
2:C:274:ARG:O	2:C:277:ALA:HB3	2.10	0.51
3:N:701:LEU:HD11	3:N:750:PRO:HG3	1.93	0.51
1:L:173:PRO:O	1:L:201:THR:CG2	2.59	0.51
3:I:804:LEU:HB3	3:I:830:ALA:O	2.10	0.51
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.92	0.51
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.09	0.51
4:O:41:GLU:O	4:O:42:PRO:O	2.28	0.51
2:C:107:LEU:O	2:C:108:ILE:HG13	2.10	0.51
3:N:793:THR:HG21	3:N:906:GLN:HG2	1.93	0.51
3:N:758:GLU:CB	4:O:20:THR:HG21	2.41	0.51
2:M:524:VAL:HG13	2:M:528:GLU:OE1	2.10	0.51
1:L:62:LEU:CD1	1:L:63:HIS:H	2.24	0.51
2:H:376:ARG:CB	2:H:377:PRO:HD3	2.40	0.51
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.41	0.51
2:M:26:TYR:O	2:M:29:ALA:HB3	2.09	0.51
3:D:426:LYS:HE3	3:D:427:VAL:HG23	1.91	0.51
3:I:593:ASN:HD22	3:I:594:PRO:HD2	1.76	0.51
3:N:50:PHE:HB3	3:N:522:PRO:HD2	1.91	0.51
3:D:207:PHE:CE1	2:H:283:ILE:HG13	2.42	0.51
3:N:1448:THR:O	3:N:1452:ILE:HD13	2.11	0.51
2:H:1095:LEU:HD11	2:H:1097:LEU:HD22	1.93	0.51
3:I:10:ILE:HG22	3:I:10:ILE:O	2.11	0.51
3:I:511:TRP:N	3:I:511:TRP:CE3	2.79	0.51
3:D:1205:TYR:HE1	3:D:1370:ILE:HD11	1.76	0.51
2:H:897:LEU:HD11	2:H:917:LEU:O	2.10	0.51
2:M:317:VAL:HG11	2:M:320:HIS:NE2	2.25	0.51
2:C:148:PHE:HE2	2:C:160:ALA:HB1	1.75	0.51
7:Y:74:ILE:HD12	7:Y:75:LEU:H	1.75	0.51
2:H:292:ARG:HD3	2:H:294:GLU:OE1	2.10	0.51
3:I:1384:PRO:HG2	3:I:1388:ARG:NH2	2.26	0.51
3:I:826:PRO:HD2	3:I:829:VAL:CG2	2.40	0.51
3:N:820:GLU:CB	3:N:836:VAL:HG21	2.40	0.51
3:I:1098:LEU:HD21	3:I:1229:ILE:CG2	2.41	0.51
3:D:793:THR:HG21	3:D:906:GLN:HG2	1.93	0.51
1:L:101:LEU:HD12	1:L:114:PHE:N	2.26	0.51
2:H:86:LYS:O	2:H:813:VAL:HG23	2.10	0.51
3:N:686:GLU:HA	3:N:689:ASP:OD2	2.10	0.51
3:D:1408:ILE:H	3:D:1408:ILE:HD12	1.76	0.51
2:M:606:VAL:HG21	2:M:645:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1108:ARG:N	3:I:1108:ARG:CD	2.74	0.51
3:N:923:GLY:O	3:N:927:THR:OG1	2.28	0.51
2:H:598:GLU:HB2	2:H:615:TYR:OH	2.10	0.51
3:I:199:LEU:HD21	3:I:397:LYS:HZ1	1.76	0.51
3:I:547:LEU:HD11	3:I:578:VAL:HG23	1.93	0.51
2:M:101:ILE:HB	2:M:108:ILE:CD1	2.40	0.51
2:M:881:ASN:O	2:M:884:GLN:HG3	2.11	0.51
3:D:112:ILE:O	3:D:112:ILE:HD13	2.11	0.51
3:D:104:PHE:O	3:D:112:ILE:HG22	2.10	0.51
2:M:136:ILE:N	2:M:136:ILE:CD1	2.73	0.51
3:D:785:ILE:CD1	3:D:939:PHE:CE2	2.94	0.51
3:N:142:LEU:HB3	3:N:144:GLY:N	2.22	0.51
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.93	0.51
3:N:432:TYR:CG	3:N:450:TYR:CD2	2.90	0.51
2:H:344:PHE:CD2	2:H:378:LEU:HD11	2.46	0.51
3:D:991:GLN:CD	7:X:112:VAL:H	2.14	0.51
3:D:432:TYR:HB3	3:D:450:TYR:CB	2.40	0.51
3:D:1264:GLU:CD	3:D:1424:VAL:HG13	2.31	0.51
3:D:17:LYS:CG	3:D:21:TRP:HE1	2.20	0.51
3:I:28:LYS:CG	3:I:29:PRO:HD2	2.41	0.51
2:M:118:ILE:CG2	2:M:382:ILE:HD13	2.33	0.51
1:G:170:VAL:HG11	3:I:848:GLU:CD	2.31	0.51
3:N:1442:ASN:O	3:N:1446:VAL:HG23	2.11	0.51
2:H:701:THR:CG2	2:H:832:LYS:HG2	2.41	0.51
3:N:924:MET:N	4:O:7:ASP:OD2	2.44	0.51
2:M:950:LEU:O	2:M:950:LEU:HD13	2.11	0.51
3:N:956:ILE:HD13	3:N:1062:ARG:NH2	2.25	0.51
3:D:511:TRP:CE3	3:D:511:TRP:N	2.79	0.51
2:C:579:VAL:CG1	2:C:887:GLU:HG3	2.35	0.51
2:C:897:LEU:CD2	2:C:920:GLN:HG2	2.41	0.51
1:L:48:ILE:CG2	1:L:173:PRO:HD2	2.41	0.51
3:N:1496:GLU:HA	3:N:1499:ARG:HE	1.72	0.51
3:D:1281:VAL:HG21	3:D:1313:VAL:HG22	1.93	0.51
2:C:108:ILE:CG2	2:C:109:LYS:N	2.72	0.51
7:X:85:LEU:HD21	7:X:121:ASP:HB2	1.93	0.51
2:C:611:ILE:HD11	2:C:625:LEU:HD21	1.93	0.51
4:E:41:GLU:O	4:E:42:PRO:O	2.29	0.51
7:Y:94:PRO:HD3	7:Y:148:GLU:O	2.10	0.51
2:M:1044:GLY:HA3	4:O:17:TYR:HE1	1.75	0.51
2:M:249:LYS:O	2:M:250:ARG:C	2.49	0.51
1:F:216:GLU:OE2	1:F:219:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:14:ARG:HH21	2:M:934:PHE:HZ	1.59	0.51
3:D:348:GLN:H	3:D:351:MET:HE2	1.75	0.51
2:H:197:LEU:HA	2:H:200:LEU:HD12	1.92	0.51
2:C:435:TYR:O	2:C:437:ARG:HD2	2.10	0.51
2:M:363:SER:O	2:M:367:LEU:HG	2.10	0.51
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.93	0.51
2:H:260:LEU:HA	2:H:291:ALA:HB2	1.93	0.51
3:I:611:GLN:HE22	6:S:9:U:C4'	2.00	0.51
3:I:205:TYR:CD1	3:I:390:PRO:HB3	2.44	0.51
3:N:705:ALA:CB	3:N:706:PRO:CD	2.89	0.51
2:H:25:SER:OG	2:H:335:THR:HB	2.10	0.51
1:F:36:LEU:C	1:F:39:PRO:HD2	2.28	0.51
2:C:950:LEU:O	2:C:950:LEU:HD13	2.11	0.51
1:B:173:PRO:O	1:B:201:THR:CG2	2.59	0.51
3:N:479:GLU:O	3:N:483:HIS:ND1	2.42	0.51
4:E:47:LYS:N	4:E:54:LEU:HD13	2.26	0.51
3:I:792:ILE:CD1	3:I:881:LEU:HD23	2.38	0.51
3:N:104:PHE:O	3:N:112:ILE:HG22	2.10	0.51
2:C:443:THR:HG21	3:D:1078:ARG:CD	2.41	0.51
2:C:524:VAL:CG1	2:C:525:SER:H	2.24	0.51
1:G:101:LEU:HD12	1:G:114:PHE:N	2.26	0.51
1:L:70:GLY:O	1:L:132:LEU:HA	2.11	0.51
4:E:33:HIS:CG	4:E:89:MET:HG2	2.46	0.51
1:F:9:PRO:HB2	1:G:224:TYR:HB3	1.93	0.51
1:K:184:THR:HG22	1:K:185:ARG:N	2.25	0.51
2:C:234:ALA:HA	2:C:237:ARG:HB2	1.93	0.51
3:D:356:PRO:HG2	3:D:359:ALA:HB2	1.93	0.51
3:I:451:ASP:OD1	3:I:452:ILE:N	2.43	0.51
3:I:458:ALA:HB2	3:I:575:GLN:HE22	1.76	0.51
2:M:679:PHE:CE2	2:M:853:LEU:HD21	2.45	0.51
2:M:987:ILE:CD1	3:N:948:THR:HG23	2.41	0.51
2:H:1096:ALA:HB1	3:I:12:LEU:CD2	2.41	0.51
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.39	0.51
4:J:54:LEU:CD2	4:J:58:PRO:HG2	2.41	0.51
2:H:174:LEU:HD12	2:H:306:THR:CG2	2.41	0.51
1:F:68:ILE:O	1:F:71:VAL:HB	2.11	0.51
2:M:861:LEU:HA	2:M:974:LEU:HD12	1.93	0.51
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.25	0.51
2:C:861:LEU:HD23	2:C:863:ASP:N	2.23	0.51
2:M:848:VAL:HG12	2:M:849:VAL:N	2.26	0.51
3:I:793:THR:HG21	3:I:906:GLN:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:THR:C	1:B:167:VAL:HG23	2.32	0.51
3:D:701:LEU:HD11	3:D:750:PRO:HG3	1.93	0.51
3:I:970:LYS:HZ3	7:Y:113:LEU:HA	1.75	0.51
2:C:439:CYS:HB2	2:C:541:SER:HB2	1.92	0.51
3:N:1205:TYR:HE1	3:N:1370:ILE:HD11	1.76	0.51
3:D:1305:LEU:HD11	3:D:1326:THR:OG1	2.10	0.51
2:H:754:ILE:HG13	2:H:791:ARG:HH12	1.76	0.51
1:B:132:LEU:HD23	1:B:136:GLY:O	2.11	0.51
3:N:1235:GLN:HG2	7:Z:48:LEU:HD12	1.92	0.51
1:G:109:VAL:HG23	1:G:132:LEU:HD13	1.91	0.51
1:A:26:GLU:HB2	1:A:27:PRO:HA	1.93	0.51
3:I:1434:TRP:CD1	3:I:1435:LEU:N	2.79	0.51
1:L:179:PHE:N	1:L:179:PHE:CD2	2.79	0.51
2:H:215:GLY:O	2:H:216:GLU:CB	2.59	0.51
2:H:679:PHE:O	2:H:680:ASP:C	2.49	0.50
2:M:129:ILE:CD1	2:M:134:ARG:CB	2.88	0.50
1:L:45:LEU:HD11	1:L:177:VAL:HG22	1.93	0.50
2:H:328:LEU:HD22	2:H:433:THR:O	2.10	0.50
7:Z:89:VAL:HG11	7:Z:151:VAL:HG13	1.91	0.50
6:U:12:G:N3	6:U:12:G:H2'	2.25	0.50
3:D:705:ALA:CB	3:D:706:PRO:CD	2.89	0.50
3:D:631:ILE:HG21	3:D:745:MET:HG3	1.93	0.50
1:K:128:HIS:HE1	1:K:131:THR:CG2	2.24	0.50
1:A:176:ARG:NH1	2:C:863:ASP:OD2	2.44	0.50
2:C:17:PRO:HB2	2:C:20:GLU:HB3	1.92	0.50
3:N:926:LYS:O	3:N:929:ARG:HB2	2.11	0.50
3:N:511:TRP:N	3:N:511:TRP:CE3	2.79	0.50
2:C:64:LEU:HD22	2:C:359:MET:HB2	1.93	0.50
3:D:795:VAL:CG2	3:D:879:ARG:HH12	2.24	0.50
1:A:150:TYR:CD1	2:C:696:LYS:HG2	2.46	0.50
2:C:158:TYR:CD1	2:C:313:LEU:HD21	2.46	0.50
3:I:1434:TRP:NE1	3:I:1435:LEU:HD12	2.25	0.50
3:I:701:LEU:HD11	3:I:750:PRO:HG3	1.93	0.50
3:D:918:ALA:CB	3:D:927:THR:HG23	2.41	0.50
3:I:918:ALA:CB	3:I:927:THR:HG23	2.41	0.50
3:I:1146:GLY:HA3	3:I:1207:TYR:HB2	1.93	0.50
2:M:426:ASP:OD1	2:M:426:ASP:C	2.50	0.50
2:H:158:TYR:N	2:H:158:TYR:CD1	2.78	0.50
7:Y:92:GLU:HA	7:Y:98:GLU:O	2.10	0.50
1:A:33:GLY:O	1:A:195:LEU:HD13	2.11	0.50
3:D:347:VAL:CG2	3:D:368:VAL:HG11	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:50:PHE:O	3:I:89:ARG:HB2	2.11	0.50
3:I:939:PHE:O	3:I:943:THR:HG23	2.11	0.50
2:C:212:GLY:HA3	2:C:218:VAL:HG21	1.92	0.50
3:N:949:ILE:N	3:N:949:ILE:CD1	2.70	0.50
3:D:783:ARG:NH1	7:X:41:ASP:CB	2.74	0.50
3:N:81:THR:HB	3:N:85:VAL:HG21	1.93	0.50
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.93	0.50
3:D:1258:ARG:O	3:D:1262:LEU:HB2	2.12	0.50
2:H:577:PRO:HG3	2:H:993:PHE:CE1	2.45	0.50
2:H:897:LEU:CD2	2:H:920:GLN:HG2	2.40	0.50
3:D:1217:ILE:HB	3:D:1480:PHE:CE2	2.46	0.50
2:H:861:LEU:HA	2:H:974:LEU:HD12	1.92	0.50
3:I:661:MET:HE2	3:I:673:ALA:HB1	1.92	0.50
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.93	0.50
3:I:771:SER:HB2	3:I:778:LEU:CD1	2.37	0.50
2:H:950:LEU:HD13	2:H:950:LEU:O	2.11	0.50
2:C:754:ILE:HG13	2:C:791:ARG:HH12	1.76	0.50
2:H:442:GLU:CG	2:H:454:SER:HB2	2.40	0.50
3:D:893:GLU:O	3:D:896:ALA:HB3	2.12	0.50
3:I:893:GLU:O	3:I:896:ALA:HB3	2.12	0.50
3:N:762:GLN:NE2	4:O:20:THR:CB	2.75	0.50
2:M:524:VAL:CG1	2:M:525:SER:H	2.24	0.50
3:D:1356:TYR:HD2	3:D:1361:VAL:HG11	1.76	0.50
3:D:1295:GLU:N	3:D:1295:GLU:OE2	2.44	0.50
3:N:1189:ARG:HD2	3:N:1204:CYS:SG	2.52	0.50
1:A:117:VAL:HB	1:A:120:VAL:HG13	1.92	0.50
3:D:1397:LYS:NZ	3:D:1432:LYS:HZ3	2.08	0.50
2:C:41:ASN:O	2:C:46:ALA:HB2	2.11	0.50
2:C:722:ILE:O	2:C:722:ILE:HG23	2.12	0.50
2:C:187:ASN:O	2:C:188:LYS:HB3	2.10	0.50
3:N:975:GLU:O	3:N:979:GLU:HG3	2.12	0.50
3:D:975:GLU:O	3:D:979:GLU:HG3	2.11	0.50
3:D:187:LYS:HG3	3:D:198:ARG:C	2.32	0.50
3:I:1468:LEU:HD13	3:I:1470:ARG:NE	2.19	0.50
3:I:790:TYR:CG	3:I:1026:SER:OG	2.53	0.50
3:I:127:LEU:HD21	3:I:461:ILE:HD11	1.93	0.50
3:D:119:SER:HB2	3:D:123:LEU:N	2.25	0.50
3:D:23:TYR:CE1	3:D:89:ARG:HG2	2.46	0.50
3:D:51:GLY:O	3:D:86:ARG:CZ	2.60	0.50
2:H:1083:GLU:CD	2:H:1086:ARG:HD2	2.31	0.50
1:L:185:ARG:CD	3:N:692:GLU:HG2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:272:ALA:HA	2:H:464:LEU:CD2	2.42	0.50
3:N:100:ALA:HB3	3:N:128:TYR:CE1	2.46	0.50
2:C:657:ASP:CG	2:C:663:ASN:H	2.14	0.50
3:I:10:ILE:CG2	3:I:1450:ALA:O	2.59	0.50
3:I:177:ALA:N	3:I:390:PRO:CD	2.73	0.50
2:C:93:PRO:HA	2:C:117:HIS:CD2	2.46	0.50
2:H:881:ASN:O	2:H:884:GLN:HG3	2.11	0.50
2:M:142:ARG:CD	2:M:325:ILE:HG23	2.41	0.50
2:H:571:LEU:HD21	2:H:699:PHE:O	2.11	0.50
3:N:957:PRO:HG2	3:N:1007:VAL:CG2	2.40	0.50
3:N:792:ILE:CD1	3:N:881:LEU:HD23	2.38	0.50
3:N:112:ILE:HD13	3:N:112:ILE:O	2.11	0.50
3:D:190:GLU:HA	3:D:196:VAL:HG22	1.92	0.50
2:C:428:ARG:O	3:D:1078:ARG:NH1	2.44	0.50
2:C:29:ALA:O	2:C:43:GLY:HA3	2.11	0.50
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.45	0.50
2:M:896:PHE:O	2:M:924:VAL:HG11	2.12	0.50
2:C:605:LYS:HB3	2:C:610:ARG:HH12	1.76	0.50
3:D:52:PRO:O	3:D:86:ARG:CD	2.59	0.50
3:D:51:GLY:C	3:D:86:ARG:HD3	2.32	0.50
3:N:1468:LEU:CD2	3:N:1470:ARG:HD3	2.41	0.50
3:N:179:VAL:HG11	3:N:185:VAL:CG2	2.41	0.50
2:M:399:ASN:O	2:M:402:SER:HB3	2.12	0.50
2:C:571:LEU:HD21	2:C:699:PHE:O	2.12	0.50
2:H:1008:ARG:HG2	2:H:1008:ARG:HH11	1.77	0.50
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.47	0.50
2:M:6:PHE:HE2	2:M:917:LEU:HD11	1.77	0.50
3:D:1216:SER:HB3	4:E:15:SER:OG	2.11	0.50
3:I:926:LYS:O	3:I:929:ARG:HB2	2.11	0.50
2:C:1012:PRO:HD2	2:C:1026:GLN:HB2	1.92	0.50
1:K:85:LEU:HA	1:K:124:ASN:ND2	2.26	0.50
1:L:165:ILE:N	1:L:165:ILE:CD1	2.70	0.50
1:B:51:THR:HG21	1:B:87:VAL:O	2.11	0.50
2:H:1073:GLY:HA3	3:I:659:LYS:HG2	1.91	0.50
3:N:800:LYS:CD	3:N:804:LEU:HB3	2.41	0.50
3:N:758:GLU:CA	4:O:20:THR:HG21	2.42	0.50
2:C:580:MET:HE2	2:C:902:ILE:HG12	1.94	0.50
2:M:554:ASP:CB	2:M:880:MET:HB2	2.41	0.50
7:X:99:ARG:HG3	7:X:99:ARG:NH1	2.27	0.50
2:C:188:LYS:HG3	2:C:188:LYS:O	2.10	0.50
2:M:860:HIS:HA	2:M:866:PRO:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:999:THR:CG2	3:N:1000:THR:N	2.75	0.50
2:M:47:ALA:O	2:M:348:LEU:HD23	2.12	0.50
2:M:838:LYS:HD3	2:M:846:LYS:HZ3	1.76	0.50
3:N:939:PHE:O	3:N:943:THR:HG23	2.12	0.50
3:D:1448:THR:O	3:D:1451:ALA:HB3	2.11	0.50
2:H:1030:GLN:HE21	3:I:628:ARG:HD3	1.64	0.50
3:I:1254:GLN:HA	3:I:1258:ARG:HB2	1.93	0.50
2:M:572:ILE:HG23	2:M:703:ILE:CD1	2.41	0.50
3:D:1052:THR:HG21	7:X:57:ARG:HH11	1.71	0.50
3:I:699:VAL:HA	3:I:718:PRO:HD3	1.94	0.50
4:E:36:LYS:CE	4:E:36:LYS:N	2.74	0.50
2:C:911:GLU:OE2	3:D:1062:ARG:NH1	2.45	0.50
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.40	0.50
3:I:631:ILE:HG21	3:I:745:MET:HG3	1.94	0.50
2:H:535:SER:O	2:H:538:GLN:HG2	2.12	0.50
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.93	0.50
2:M:63:GLY:HA3	2:M:103:LYS:HE3	1.93	0.50
3:N:109:PRO:HB3	3:N:494:LYS:NZ	2.27	0.50
2:H:9:ILE:O	2:H:9:ILE:CG1	2.60	0.50
3:I:38:LYS:O	3:I:39:PRO:C	2.50	0.50
2:H:94:LEU:C	2:H:94:LEU:HD12	2.32	0.50
1:K:101:LEU:HG	1:K:102:LYS:N	2.25	0.50
3:I:557:LEU:HD22	3:I:566:ILE:HG21	1.94	0.50
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.93	0.50
2:H:487:THR:HB	2:H:490:GLU:HG2	1.94	0.50
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.94	0.50
3:I:1150:ALA:O	3:I:1162:GLU:HG2	2.11	0.50
2:H:923:GLU:O	2:H:927:GLY:HA3	2.11	0.50
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.46	0.50
2:C:598:GLU:HB2	2:C:615:TYR:OH	2.12	0.50
3:D:400:VAL:CG2	3:D:443:VAL:HG21	2.42	0.50
3:I:1029:ARG:NH2	7:Y:41:ASP:OD2	2.39	0.50
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.92	0.50
2:M:111:ASP:OD2	2:M:369:PRO:HB2	2.10	0.50
3:I:112:ILE:O	3:I:112:ILE:HD13	2.11	0.50
3:N:127:LEU:O	3:N:457:GLY:HA2	2.12	0.50
2:M:831:ARG:NH1	2:M:1002:GLU:HB2	2.27	0.50
2:H:668:LEU:H	2:H:668:LEU:HD12	1.73	0.50
3:N:1481:VAL:HG12	4:O:21:VAL:HG21	1.93	0.50
3:D:770:LEU:HB2	3:D:1210:SER:O	2.11	0.50
4:E:36:LYS:HE2	4:E:36:LYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1264:GLU:CD	3:N:1424:VAL:HG13	2.31	0.50
2:M:263:ASP:OD2	2:M:263:ASP:N	2.43	0.50
7:Z:83:ILE:CG1	7:Z:154:ILE:HD13	2.41	0.50
3:I:728:LEU:HD22	3:I:745:MET:SD	2.52	0.50
3:N:1381:VAL:O	3:N:1389:LEU:O	2.29	0.50
3:D:109:PRO:HB3	3:D:494:LYS:NZ	2.26	0.50
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.94	0.50
3:N:893:GLU:O	3:N:896:ALA:HB3	2.12	0.50
3:N:882:PHE:HE1	3:N:934:LEU:HD21	1.77	0.50
3:I:957:PRO:HG2	3:I:1007:VAL:CG2	2.40	0.50
3:D:882:PHE:HE1	3:D:934:LEU:HD21	1.77	0.50
1:G:173:PRO:O	1:G:201:THR:CG2	2.59	0.50
2:H:570:PRO:HD2	2:H:635:THR:CG2	2.42	0.50
2:C:997:LEU:N	2:C:997:LEU:HD22	2.26	0.50
2:M:906:PHE:CZ	3:N:1067:VAL:HA	2.46	0.50
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.93	0.50
2:H:426:ASP:OD1	2:H:426:ASP:C	2.50	0.50
2:C:6:PHE:CD1	2:C:909:ALA:HB2	2.47	0.50
1:K:24:VAL:HG22	1:K:196:THR:HG22	1.94	0.50
3:N:1198:TYR:OH	3:N:1394:VAL:HG11	2.12	0.50
3:D:368:VAL:H	3:D:377:VAL:HB	1.76	0.50
3:D:447:VAL:O	3:D:449:SER:N	2.44	0.50
3:I:50:PHE:HA	3:I:89:ARG:CG	2.42	0.50
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.42	0.50
3:D:173:PRO:HB3	2:H:279:GLU:OE2	2.12	0.50
2:H:163:ILE:O	2:H:163:ILE:HG23	2.12	0.50
2:H:343:GLN:HA	2:H:346:VAL:CG2	2.42	0.50
3:D:1206:GLY:O	3:D:1215:VAL:HG23	2.12	0.50
2:M:674:VAL:O	2:M:989:VAL:HA	2.12	0.50
2:H:169:GLY:HA2	2:H:263:ASP:CB	2.42	0.50
2:C:544:THR:O	2:C:547:ILE:HD12	2.12	0.50
3:N:1087:ARG:HB2	3:N:1237:THR:OG1	2.12	0.50
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.93	0.50
2:H:64:LEU:HD22	2:H:359:MET:HG3	1.92	0.50
2:C:36:PRO:CB	2:C:70:GLU:HG2	2.42	0.50
2:H:83:CYS:HB3	2:H:88:LEU:O	2.11	0.50
3:N:699:VAL:HA	3:N:718:PRO:HD3	1.94	0.50
3:N:1288:GLU:O	3:N:1307:LYS:CE	2.57	0.50
2:M:89:THR:HG21	2:M:383:ARG:HH22	1.77	0.50
3:N:771:SER:HB2	3:N:778:LEU:CD1	2.37	0.50
3:N:957:PRO:CG	3:N:1007:VAL:HG22	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1491:THR:HA	3:D:1494:ALA:HB3	1.93	0.50
2:C:545:ASN:HA	2:C:905:ILE:HD11	1.93	0.50
3:N:1277:ILE:N	3:N:1277:ILE:HD12	2.27	0.50
3:I:1277:ILE:HD12	3:I:1277:ILE:N	2.27	0.50
2:H:137:VAL:HG23	2:H:391:LEU:HD23	1.90	0.50
2:H:857:ASP:HB2	2:H:978:ARG:CG	2.40	0.50
2:C:99:GLN:HE21	2:C:101:ILE:HD11	1.77	0.50
2:H:848:VAL:HG12	2:H:849:VAL:N	2.26	0.50
3:D:957:PRO:CG	3:D:1007:VAL:HG22	2.39	0.50
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.40	0.50
3:N:514:LEU:HD11	3:N:582:LEU:HD11	1.94	0.50
2:M:997:LEU:N	2:M:997:LEU:HD22	2.26	0.50
3:I:1232:PRO:HB3	3:I:1361:VAL:HG21	1.93	0.50
3:I:550:ARG:HH11	3:I:573:MET:HB3	1.77	0.50
2:H:249:LYS:O	2:H:250:ARG:C	2.50	0.50
1:A:89:PHE:HD1	1:A:120:VAL:CG2	2.25	0.50
1:G:221:HIS:HA	1:G:224:TYR:HD2	1.77	0.50
2:M:361:MET:HG2	2:M:361:MET:O	2.11	0.50
3:N:1479:ASP:OD2	3:N:1482:ARG:NH2	2.44	0.50
2:C:896:PHE:O	2:C:924:VAL:HG11	2.12	0.50
3:D:441:ARG:NH1	3:D:445:ARG:CZ	2.75	0.50
2:H:182:VAL:O	2:H:193:LEU:HD11	2.08	0.50
2:H:683:ASN:HB2	2:H:872:ASN:HB2	1.93	0.50
3:I:1026:SER:O	3:I:1028:ALA:N	2.44	0.50
2:C:272:ALA:O	2:C:464:LEU:HD22	2.12	0.50
3:D:86:ARG:HB3	3:D:523:ASP:OD2	2.11	0.50
2:C:679:PHE:O	2:C:680:ASP:C	2.49	0.50
3:D:939:PHE:O	3:D:943:THR:HG23	2.11	0.50
2:M:571:LEU:HD11	2:M:700:TYR:CA	2.40	0.50
3:N:111:LYS:CE	3:N:1448:THR:HG22	2.42	0.50
3:I:502:PHE:CZ	3:I:1452:ILE:HG13	2.46	0.50
3:I:1209:LEU:O	3:I:1210:SER:C	2.48	0.50
3:N:782:SER:H	3:N:785:ILE:HD13	1.77	0.50
2:H:48:PHE:O	2:H:52:PHE:HB2	2.12	0.50
3:I:806:PHE:C	3:I:808:THR:N	2.65	0.50
2:M:1001:VAL:HG22	3:N:630:VAL:CG2	2.42	0.50
7:Y:102:VAL:HG21	7:Y:125:MET:HE3	1.94	0.50
3:N:987:GLU:OE1	7:Z:120:SER:CB	2.60	0.50
1:L:152:PRO:HG3	3:N:857:ILE:HG13	1.93	0.50
2:C:101:ILE:HD12	2:C:108:ILE:CD1	2.41	0.50
2:M:86:LYS:O	2:M:87:ASP:CB	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:523:ILE:HD13	2:C:523:ILE:C	2.33	0.50
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.93	0.50
1:F:50:GLY:HA3	1:F:173:PRO:HG3	1.93	0.50
2:M:380:ALA:O	2:M:384:GLU:HB2	2.12	0.50
2:H:797:GLY:O	2:H:829:GLN:NE2	2.45	0.50
2:M:923:GLU:O	2:M:927:GLY:HA3	2.11	0.50
3:D:142:LEU:HD23	3:D:146:PRO:CA	2.41	0.50
2:H:198:ARG:HD2	2:H:228:ALA:HA	1.93	0.50
3:I:1024:ALA:HA	3:I:1029:ARG:O	2.12	0.50
2:M:878:SER:HA	3:N:1034:GLN:HE22	1.76	0.50
3:D:51:GLY:O	3:D:86:ARG:NE	2.45	0.50
2:C:879:ARG:CZ	7:X:42:ASP:CB	2.87	0.50
2:C:885:ILE:HG13	3:D:949:ILE:HG21	1.94	0.50
2:H:276:LYS:O	2:H:280:LYS:HB2	2.11	0.50
3:D:162:ARG:NE	3:D:452:ILE:HG21	2.26	0.50
1:K:88:ARG:HH12	1:K:90:LEU:HD11	1.76	0.50
2:H:36:PRO:HA	2:H:39:ARG:HB3	1.94	0.50
2:H:98:LEU:CD1	2:H:98:LEU:N	2.60	0.50
2:H:876:VAL:H	2:H:877:PRO:HD2	1.76	0.50
3:N:704:ARG:NH2	6:U:16:G:O2'	2.45	0.50
2:M:317:VAL:N	2:M:318:PRO:HD3	2.27	0.50
3:I:1472:ILE:HG22	3:I:1473:PRO:CD	2.40	0.50
3:I:1107:VAL:O	3:I:1107:VAL:HG12	2.12	0.50
3:I:1256:LEU:O	3:I:1259:VAL:N	2.45	0.50
1:B:153:ALA:HB2	1:B:168:ASP:N	2.27	0.50
3:N:1107:VAL:O	3:N:1218:GLY:N	2.43	0.50
3:I:834:THR:HB	3:I:838:ARG:HD3	1.94	0.50
2:M:570:PRO:HD2	2:M:635:THR:CG2	2.42	0.50
3:I:1281:VAL:HG21	3:I:1313:VAL:HG21	1.94	0.50
3:I:1093:TYR:CE2	3:I:1097:LYS:HE3	2.47	0.50
2:C:243:ARG:CB	2:C:244:PRO:HD3	2.42	0.50
1:L:73:GLU:HB2	1:L:78:ILE:CG1	2.42	0.50
7:Z:128:ALA:HB2	7:Z:140:LEU:HD21	1.93	0.50
1:L:138:LEU:HD21	1:L:140:MET:SD	2.52	0.50
1:B:110:LYS:HD3	1:B:126:ASP:HA	1.93	0.50
2:H:799:ILE:N	2:H:799:ILE:HD13	2.27	0.50
2:C:799:ILE:N	2:C:799:ILE:HD13	2.27	0.50
3:D:390:PRO:HB2	3:D:393:ILE:HD11	1.93	0.49
2:M:684:PHE:CB	3:N:633:VAL:HG21	2.41	0.49
3:N:676:MET:O	3:N:680:GLN:N	2.44	0.49
3:N:162:ARG:HH11	3:N:162:ARG:HG2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:115:LEU:HA	2:H:375:SER:HB3	1.94	0.49
1:B:30:ARG:NH1	2:C:692:GLU:OE1	2.45	0.49
3:D:1098:LEU:HD21	3:D:1229:ILE:HG22	1.92	0.49
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.10	0.49
3:I:202:VAL:CG1	3:I:445:ARG:HH21	2.23	0.49
4:J:31:LEU:HD12	4:J:32:ARG:H	1.76	0.49
1:A:88:ARG:HH12	1:A:90:LEU:HD11	1.76	0.49
2:H:879:ARG:NE	7:Y:42:ASP:OD1	2.45	0.49
3:D:13:ALA:CB	3:D:18:ILE:HD11	2.42	0.49
2:M:274:ARG:HD2	2:M:285:LEU:CD1	2.41	0.49
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.94	0.49
3:N:438:ASP:HB2	3:N:445:ARG:NH1	2.27	0.49
3:I:447:VAL:O	3:I:449:SER:N	2.45	0.49
2:H:860:HIS:HA	2:H:866:PRO:HA	1.94	0.49
3:N:481:MET:SD	3:N:496:LEU:HD23	2.52	0.49
3:N:700:VAL:HG12	3:N:749:VAL:HG13	1.94	0.49
3:I:401:TYR:HB3	3:I:427:VAL:HG13	1.93	0.49
2:M:383:ARG:CB	2:M:383:ARG:HH11	2.18	0.49
2:C:1047:HIS:H	2:C:1047:HIS:CD2	2.30	0.49
2:C:1047:HIS:N	2:C:1047:HIS:CD2	2.80	0.49
2:M:720:GLU:HA	2:M:759:THR:O	2.11	0.49
2:C:966:LEU:HD11	2:C:986:PRO:HG2	1.94	0.49
7:Y:128:ALA:CB	7:Y:140:LEU:HD11	2.41	0.49
4:E:33:HIS:HB2	4:E:37:ASN:OD1	2.12	0.49
3:I:1408:ILE:HD12	3:I:1408:ILE:H	1.76	0.49
2:H:215:GLY:O	2:H:216:GLU:HB3	2.12	0.49
2:C:188:LYS:HB2	2:C:188:LYS:NZ	2.25	0.49
2:C:426:ASP:C	2:C:426:ASP:OD1	2.50	0.49
2:C:211:LEU:O	2:C:211:LEU:HD12	2.12	0.49
2:C:267:TYR:N	2:C:267:TYR:CD2	2.80	0.49
2:M:328:LEU:C	2:M:330:ASN:N	2.65	0.49
3:N:1047:LYS:HZ2	3:N:1053:PHE:HA	1.76	0.49
2:M:1095:LEU:HD11	2:M:1097:LEU:HD22	1.93	0.49
2:C:570:PRO:HD2	2:C:635:THR:CG2	2.42	0.49
2:C:886:LEU:CD1	3:D:951:ILE:HD12	2.43	0.49
1:B:73:GLU:HG3	1:B:130:ALA:HA	1.94	0.49
3:N:13:ALA:CB	3:N:18:ILE:HD11	2.42	0.49
2:H:443:THR:HG21	3:I:1078:ARG:HD2	1.94	0.49
3:D:729:HIS:HB3	3:D:732:VAL:HG22	1.94	0.49
3:I:606:ILE:HG13	3:I:606:ILE:O	2.12	0.49
1:B:212:ASN:O	1:B:215:VAL:CG2	2.54	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:958:THR:CG2	2:H:961:GLU:HG3	2.35	0.49
2:H:662:GLU:OE1	2:H:662:GLU:O	2.30	0.49
2:M:1038:TRP:O	2:M:1039:ALA:C	2.50	0.49
2:C:274:ARG:HG3	2:C:285:LEU:HB3	1.94	0.49
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.93	0.49
3:N:804:LEU:CB	3:N:830:ALA:O	2.60	0.49
3:N:834:THR:HB	3:N:838:ARG:HD3	1.94	0.49
4:O:73:LEU:HD12	4:O:73:LEU:H	1.77	0.49
2:C:338:GLU:C	2:C:341:THR:HG22	2.32	0.49
3:I:6:ARG:NH2	3:I:1482:ARG:NH2	2.59	0.49
3:N:930:LEU:O	3:N:933:ALA:HB3	2.12	0.49
3:I:1192:LEU:HB3	3:I:1345:GLU:OE2	2.12	0.49
3:N:1192:LEU:HB3	3:N:1345:GLU:OE2	2.12	0.49
2:H:896:PHE:O	2:H:924:VAL:HG11	2.12	0.49
2:M:492:ASP:OD2	2:M:518:LYS:HG3	2.12	0.49
3:D:1192:LEU:HB3	3:D:1345:GLU:OE2	2.13	0.49
3:N:409:VAL:O	3:N:410:SER:OG	2.23	0.49
2:H:756:VAL:HB	2:H:790:LEU:HB3	1.95	0.49
3:D:179:VAL:HG11	3:D:185:VAL:CG2	2.42	0.49
3:I:514:LEU:HD12	3:I:578:VAL:HG11	1.92	0.49
3:D:685:ASP:O	3:D:689:ASP:OD1	2.28	0.49
2:M:684:PHE:HB3	3:N:633:VAL:HG21	1.94	0.49
3:I:87:ARG:O	3:I:88:TYR:HD2	1.87	0.49
3:D:1026:SER:C	3:D:1028:ALA:H	2.15	0.49
3:N:142:LEU:HD22	3:N:145:VAL:CA	2.41	0.49
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.41	0.49
3:N:810:GLU:C	3:N:812:ALA:N	2.64	0.49
2:H:565:GLN:NE2	2:H:842:ARG:CG	2.65	0.49
3:I:205:TYR:HB2	3:I:393:ILE:CG1	2.39	0.49
2:H:1074:GLU:CG	2:H:1075:ASP:H	2.05	0.49
3:N:728:LEU:HD22	3:N:745:MET:SD	2.52	0.49
3:I:765:SER:OG	3:I:766:ALA:N	2.46	0.49
3:N:441:ARG:HD2	3:N:445:ARG:HH22	1.75	0.49
2:C:479:VAL:HG11	2:C:503:LEU:HD11	1.93	0.49
3:I:1472:ILE:H	3:I:1472:ILE:CD1	2.15	0.49
3:I:1384:PRO:HG2	3:I:1388:ARG:CZ	2.41	0.49
2:M:662:GLU:O	2:M:662:GLU:OE1	2.30	0.49
2:H:650:ARG:HG2	2:H:653:ASP:OD2	2.13	0.49
2:C:535:SER:O	2:C:538:GLN:HG2	2.12	0.49
3:D:999:THR:CG2	3:D:1000:THR:N	2.75	0.49
2:C:1054:THR:O	2:C:1056:LYS:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:395:LYS:O	2:H:397:GLU:N	2.45	0.49
1:L:88:ARG:HB2	1:L:123:MET:SD	2.52	0.49
1:B:85:LEU:HA	1:B:124:ASN:HD22	1.77	0.49
1:A:101:LEU:HG	1:A:102:LYS:N	2.25	0.49
2:H:524:VAL:CG1	2:H:525:SER:H	2.25	0.49
6:Q:13:G:H2'	6:Q:14:C:C6	2.47	0.49
3:I:705:ALA:HB3	3:I:706:PRO:HD3	1.94	0.49
3:N:646:LYS:HG3	3:N:647:ARG:N	2.27	0.49
4:J:69:LEU:HD23	4:J:70:THR:CG2	2.41	0.49
3:D:930:LEU:O	3:D:933:ALA:HB3	2.12	0.49
1:G:179:PHE:CD2	1:G:179:PHE:N	2.79	0.49
2:C:6:PHE:CE1	2:C:909:ALA:HB2	2.47	0.49
3:N:1440:PHE:O	3:N:1441:GLN:O	2.30	0.49
3:N:50:PHE:CB	3:N:522:PRO:CD	2.91	0.49
3:D:562:ALA:HB3	2:H:226:VAL:HG12	1.93	0.49
3:I:584:ASN:HD21	3:I:590:PRO:HD2	1.73	0.49
2:C:182:VAL:CG1	2:C:193:LEU:HB2	2.42	0.49
2:C:218:VAL:C	2:C:220:GLY:N	2.64	0.49
2:C:290:LEU:HD13	2:C:303:PHE:HE1	1.76	0.49
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.42	0.49
3:D:116:LEU:CD2	3:D:118:LEU:CD1	2.90	0.49
3:D:52:PRO:O	3:D:86:ARG:HG3	2.12	0.49
2:M:328:LEU:N	2:M:328:LEU:CD1	2.74	0.49
2:C:876:VAL:H	2:C:877:PRO:HD2	1.77	0.49
3:D:765:SER:OG	3:D:766:ALA:N	2.46	0.49
3:D:926:LYS:O	3:D:929:ARG:HB2	2.11	0.49
2:C:317:VAL:C	2:C:319:GLY:N	2.62	0.49
3:N:664:LYS:O	3:N:666:ILE:N	2.46	0.49
2:H:294:GLU:CG	2:H:295:ASP:CG	2.80	0.49
3:D:834:THR:HB	3:D:838:ARG:HD3	1.95	0.49
2:H:571:LEU:HD11	2:H:700:TYR:C	2.32	0.49
3:D:508:ARG:HB3	3:D:509:PRO:HD2	1.95	0.49
3:D:700:VAL:HG12	3:D:749:VAL:HG13	1.95	0.49
4:E:48:MET:HG3	4:E:54:LEU:HG	1.94	0.49
3:N:436:GLU:OE1	3:N:447:VAL:HG13	2.12	0.49
3:N:835:SER:O	3:N:837:GLY:N	2.46	0.49
1:G:70:GLY:O	1:G:132:LEU:HA	2.12	0.49
3:D:111:LYS:HG2	3:D:1452:ILE:HD11	1.93	0.49
3:N:47:GLU:O	3:N:51:GLY:N	2.46	0.49
2:C:848:VAL:HG12	2:C:849:VAL:N	2.26	0.49
2:H:728:HIS:O	2:H:729:LEU:HD22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:15:THR:O	1:G:15:THR:HG23	2.13	0.49
4:J:3:GLU:OE1	4:J:4:PRO:HD3	2.13	0.49
2:C:860:HIS:HA	2:C:866:PRO:HA	1.94	0.49
3:D:368:VAL:HB	3:D:377:VAL:HB	1.94	0.49
3:D:412:GLY:HA2	3:D:434:ARG:HD3	1.93	0.49
2:H:987:ILE:HG23	3:I:948:THR:CG2	2.23	0.49
1:G:185:ARG:NH1	3:I:692:GLU:HG2	2.12	0.49
2:M:101:ILE:CG1	2:M:108:ILE:HD11	2.41	0.49
3:N:126:VAL:O	3:N:130:SER:CB	2.60	0.49
3:N:456:MET:CE	3:N:568:ARG:HH21	2.22	0.49
2:H:332:ARG:HH12	2:H:338:GLU:CD	2.15	0.49
4:J:47:LYS:N	4:J:54:LEU:HD13	2.27	0.49
2:H:6:PHE:CZ	2:H:917:LEU:CD1	2.96	0.49
2:H:6:PHE:CB	2:H:909:ALA:HA	2.41	0.49
3:I:782:SER:H	3:I:785:ILE:HD13	1.77	0.49
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.74	0.49
2:M:317:VAL:C	2:M:319:GLY:N	2.65	0.49
5:R:20:DG:N2	6:S:11:C:H42	2.10	0.49
2:C:863:ASP:CG	2:C:865:THR:HG22	2.33	0.49
3:N:1252:ILE:CG1	3:N:1253:THR:N	2.75	0.49
2:C:359:MET:SD	2:C:359:MET:O	2.71	0.49
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.43	0.49
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.13	0.49
3:I:646:LYS:HG3	3:I:647:ARG:N	2.26	0.49
2:C:806:LEU:HB2	2:C:822:VAL:HG22	1.95	0.49
2:H:966:LEU:HD11	2:H:986:PRO:HG2	1.94	0.49
2:H:553:ASP:OD2	2:H:883:GLY:N	2.44	0.49
3:I:930:LEU:O	3:I:933:ALA:HB3	2.12	0.49
2:C:261:ILE:HD12	2:C:262:ALA:H	1.77	0.49
3:D:1008:PHE:CE2	3:D:1035:ILE:HG21	2.47	0.49
1:A:32:PHE:CZ	1:B:47:SER:HB2	2.48	0.49
2:M:799:ILE:HD13	2:M:799:ILE:N	2.27	0.49
3:D:160:GLU:HG2	3:D:165:LYS:CG	2.41	0.49
3:I:584:ASN:CG	3:I:590:PRO:HD2	2.33	0.49
2:C:203:ASP:OD1	2:C:205:GLU:HG2	2.13	0.49
2:C:224:GLU:HG3	2:C:227:PHE:HB2	1.94	0.49
2:M:1083:GLU:CD	2:M:1086:ARG:HD2	2.31	0.49
2:C:650:ARG:HG2	2:C:653:ASP:OD2	2.13	0.49
3:I:508:ARG:HB3	3:I:509:PRO:HD2	1.95	0.49
1:G:112:ARG:CD	1:G:125:PRO:CB	2.79	0.49
2:H:879:ARG:CZ	7:Y:42:ASP:CG	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:481:MET:SD	3:I:496:LEU:HD23	2.53	0.49
3:I:1264:GLU:OE2	3:I:1424:VAL:HG12	2.10	0.49
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.33	0.49
2:H:691:SER:HB2	2:H:858:MET:SD	2.52	0.49
3:D:1381:VAL:O	3:D:1389:LEU:O	2.31	0.49
3:D:620:GLY:O	3:D:621:LYS:CG	2.54	0.49
3:D:1137:ARG:HH11	3:D:1137:ARG:CB	2.21	0.49
3:I:1205:TYR:HE1	3:I:1370:ILE:HD11	1.76	0.49
2:H:882:LEU:HD12	3:I:1061:PHE:HB3	1.94	0.49
2:M:94:LEU:HD12	2:M:95:TYR:N	2.28	0.49
3:N:795:VAL:HG23	3:N:879:ARG:HH12	1.77	0.49
2:C:338:GLU:O	2:C:341:THR:HG22	2.12	0.49
2:M:722:ILE:C	2:M:722:ILE:HD13	2.32	0.49
2:M:523:ILE:HD13	2:M:523:ILE:C	2.32	0.49
2:H:997:LEU:C	2:H:999:HIS:N	2.64	0.49
1:A:22:GLU:OE2	1:A:198:ARG:CB	2.60	0.49
3:D:646:LYS:HG3	3:D:647:ARG:N	2.26	0.49
3:D:1189:ARG:HD2	3:D:1204:CYS:SG	2.52	0.49
1:K:89:PHE:HD1	1:K:120:VAL:CG2	2.25	0.49
2:H:549:PHE:CD2	2:H:886:LEU:HB3	2.47	0.49
1:L:15:THR:O	1:L:15:THR:HG23	2.13	0.49
3:D:1485:GLN:O	4:E:75:PHE:HA	2.13	0.49
2:H:226:VAL:HG13	2:H:227:PHE:N	2.28	0.49
2:H:685:GLU:OE2	3:I:783:ARG:HD2	2.12	0.49
2:H:684:PHE:CB	3:I:633:VAL:HG21	2.43	0.49
2:C:682:TYR:CE1	2:C:851:LYS:HD3	2.47	0.49
3:N:165:LYS:NZ	3:N:199:LEU:HB3	2.27	0.49
1:L:185:ARG:NH1	3:N:692:GLU:HG2	2.22	0.49
2:C:831:ARG:HH12	2:C:1002:GLU:HB2	1.77	0.49
3:N:28:LYS:CG	3:N:29:PRO:HD2	2.41	0.49
2:H:433:THR:HG21	2:H:488:ALA:HB1	1.95	0.49
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.95	0.49
3:I:205:TYR:HD1	3:I:390:PRO:CB	2.25	0.49
3:N:355:VAL:HG13	3:N:356:PRO:HD2	1.95	0.49
2:C:861:LEU:HD21	2:C:925:TYR:CE2	2.48	0.49
4:J:17:TYR:O	4:J:21:VAL:HG23	2.12	0.49
2:H:861:LEU:HD21	2:H:925:TYR:CE2	2.48	0.49
1:L:42:ARG:CG	1:L:42:ARG:HH11	2.24	0.49
3:I:143:ASN:HB3	3:I:161:LEU:HD13	1.94	0.49
2:M:31:GLN:HG2	2:M:34:VAL:CG2	2.43	0.49
3:I:479:GLU:O	3:I:483:HIS:ND1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:508:ARG:HB3	3:N:509:PRO:HD2	1.94	0.49
3:N:1297:GLU:OE1	3:N:1299:PHE:HE2	1.95	0.49
2:H:726:ILE:CG1	2:H:734:LEU:HD11	2.36	0.49
3:I:999:THR:CG2	3:I:1000:THR:N	2.75	0.49
2:H:1036:GLU:O	2:H:1039:ALA:HB3	2.12	0.49
5:R:17:DG:H2"	5:R:18:DC:C5'	2.40	0.49
3:N:896:ALA:O	3:N:900:ILE:HG23	2.12	0.49
3:I:1147:ARG:HB3	3:I:1188:VAL:CG2	2.41	0.49
2:C:15:LEU:H	2:C:15:LEU:CD1	2.23	0.49
3:D:404:GLU:N	3:D:423:ASP:OD2	2.42	0.49
3:I:546:ARG:HH11	3:I:546:ARG:HG2	1.78	0.49
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.94	0.49
3:D:1021:TYR:CE2	3:D:1025:GLN:CG	2.96	0.49
2:M:20:GLU:OE2	2:M:460:ARG:HB2	2.13	0.49
1:L:73:GLU:HG3	1:L:130:ALA:HA	1.95	0.49
2:M:340:MET:C	2:M:340:MET:SD	2.91	0.49
2:H:593:ALA:HB1	2:H:659:PRO:HD2	1.95	0.49
7:X:30:THR:HG22	7:X:31:LYS:N	2.28	0.49
7:Y:28:GLU:O	7:Y:32:ILE:HD13	2.13	0.49
3:I:975:GLU:O	3:I:979:GLU:HG3	2.12	0.49
3:I:521:PRO:HB2	3:I:524:LEU:HD13	1.94	0.49
2:C:182:VAL:CB	2:C:193:LEU:CB	2.91	0.49
2:C:208:ALA:HB2	2:C:222:MET:CG	2.42	0.49
3:N:991:GLN:OE1	7:Z:111:ASN:ND2	2.46	0.49
2:M:368:THR:CB	2:M:369:PRO:HD2	2.35	0.49
2:M:40:GLU:O	2:M:45:GLN:OE1	2.31	0.49
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.48	0.49
3:D:105:VAL:HG21	3:D:128:TYR:CE2	2.48	0.49
3:D:1444:THR:O	3:D:1448:THR:OG1	2.20	0.49
2:M:432:ARG:NH2	3:N:1047:LYS:CD	2.46	0.49
2:M:83:CYS:SG	2:M:90:TYR:HB2	2.53	0.49
2:H:1101:THR:C	2:H:1102:LEU:HD12	2.33	0.49
2:M:1059:ASP:OD1	2:M:1061:GLU:HB3	2.13	0.49
1:G:76:VAL:CG1	3:I:872:ARG:NH1	2.76	0.49
2:H:1075:ASP:HB2	4:J:31:LEU:CD1	2.43	0.49
3:N:982:PHE:CE1	7:Z:100:LEU:HD21	2.48	0.49
3:D:704:ARG:NH1	3:D:743:ASP:HB3	2.27	0.49
1:K:111:ALA:HB3	1:K:124:ASN:O	2.12	0.49
1:A:111:ALA:HB3	1:A:124:ASN:O	2.13	0.49
2:C:36:PRO:HB2	2:C:70:GLU:HG2	1.93	0.49
1:A:25:LEU:HD22	1:B:225:PHE:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:102:ILE:CD1	3:D:586:ARG:HG3	2.43	0.49
3:D:835:SER:O	3:D:837:GLY:N	2.46	0.49
2:H:701:THR:CG2	2:H:832:LYS:HA	2.43	0.49
3:D:481:MET:SD	3:D:496:LEU:HD23	2.52	0.49
7:Y:111:ASN:ND2	7:Y:113:LEU:HD12	2.28	0.49
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.94	0.49
3:D:896:ALA:O	3:D:900:ILE:HG23	2.12	0.49
3:I:1434:TRP:CZ3	3:I:1457:ASP:N	2.81	0.49
2:H:806:LEU:HB2	2:H:822:VAL:HG22	1.95	0.49
2:H:690:ILE:HG23	2:H:852:ILE:HG23	1.95	0.49
2:M:612:VAL:HG22	2:M:622:GLU:HG3	1.94	0.49
1:F:25:LEU:HD23	1:F:28:LEU:HD11	1.95	0.49
3:N:1117:TYR:HE1	3:N:1119:SER:HG	1.61	0.49
2:H:610:ARG:HH11	2:H:610:ARG:HG3	1.78	0.49
3:N:1160:LEU:HD23	3:N:1164:ARG:NH1	2.27	0.49
3:I:1155:VAL:CG1	3:I:1177:ALA:CB	2.91	0.49
3:D:397:LYS:HE2	3:D:448:GLU:OE1	2.13	0.49
2:C:204:GLN:NE2	2:C:228:ALA:HB1	2.28	0.49
2:M:281:LEU:HA	2:M:309:TYR:CE2	2.48	0.49
3:N:81:THR:HG21	3:N:85:VAL:CG1	2.41	0.49
2:C:885:ILE:CG2	3:D:950:GLY:HA2	2.43	0.49
2:M:217:LEU:CG	2:M:311:PHE:CD1	2.95	0.49
3:N:205:TYR:HD1	3:N:390:PRO:HG3	1.78	0.49
3:N:133:ILE:CG2	3:N:455:ARG:O	2.61	0.49
2:H:602:GLU:CG	2:H:603:VAL:N	2.76	0.49
2:C:662:GLU:O	2:C:662:GLU:OE1	2.30	0.49
3:I:407:VAL:HA	3:I:422:ALA:CA	2.39	0.49
3:D:813:LEU:CD1	3:D:814:ALA:N	2.72	0.49
1:A:12:THR:OG1	1:A:24:VAL:HB	2.12	0.49
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.47	0.49
2:M:863:ASP:CG	2:M:865:THR:HG22	2.33	0.49
2:H:861:LEU:HD23	2:H:863:ASP:N	2.24	0.49
4:J:37:ASN:HA	4:J:93:TYR:CE2	2.48	0.49
2:M:946:ARG:HD3	2:M:984:GLU:HB2	1.95	0.49
7:Y:82:VAL:HG22	7:Y:133:ARG:HH21	1.76	0.49
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.13	0.49
1:L:62:LEU:CD1	1:L:62:LEU:H	2.19	0.49
1:G:87:VAL:CG2	1:G:144:VAL:HG11	2.42	0.49
2:M:997:LEU:C	2:M:999:HIS:N	2.64	0.49
2:M:342:ASP:O	2:M:345:ARG:HG2	2.12	0.49
2:M:93:PRO:HB3	2:M:117:HIS:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:447:ALA:O	2:H:448:ASN:CB	2.60	0.49
7:X:147:ARG:NH2	7:X:149:PHE:HZ	2.10	0.49
2:M:603:VAL:HG12	2:M:604:ALA:N	2.28	0.49
3:I:593:ASN:ND2	3:I:594:PRO:HD2	2.28	0.49
2:C:923:GLU:O	2:C:927:GLY:HA3	2.12	0.49
3:D:350:HIS:CD2	3:D:371:ILE:HG12	2.48	0.49
2:H:104:ASP:O	2:H:106:GLY:N	2.46	0.49
2:H:127:PHE:O	2:H:133:ASP:HA	2.12	0.49
3:I:1063:GLU:CD	3:I:1064:GLY:H	2.16	0.49
3:N:1089:ALA:C	3:N:1091:SER:N	2.65	0.49
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.33	0.49
3:N:970:LYS:HE2	7:Z:113:LEU:CD2	2.39	0.49
3:I:615:ARG:CG	3:I:619:LEU:HD11	2.42	0.49
2:C:878:SER:HB3	3:D:1029:ARG:CZ	2.41	0.49
3:N:141:ILE:C	3:N:141:ILE:HD13	2.32	0.49
1:G:80:LEU:HD23	3:I:867:ARG:CG	2.43	0.49
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.95	0.49
3:N:111:LYS:CD	3:N:1448:THR:HG22	2.43	0.49
3:I:1448:THR:O	3:I:1451:ALA:HB3	2.13	0.49
1:G:112:ARG:HG3	1:G:125:PRO:CB	2.43	0.49
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.28	0.49
2:C:911:GLU:OE2	3:D:1062:ARG:CZ	2.61	0.49
2:H:564:MET:HE2	2:H:846:LYS:CD	2.42	0.49
3:I:704:ARG:NH1	3:I:743:ASP:HB3	2.27	0.49
3:N:351:MET:O	3:N:352:ASN:OD1	2.31	0.49
1:F:111:ALA:HB3	1:F:124:ASN:O	2.13	0.49
3:D:102:ILE:HD11	3:D:106:LYS:HB2	1.95	0.49
2:M:535:SER:O	2:M:538:GLN:HG2	2.12	0.49
2:H:662:GLU:OE1	2:H:663:ASN:HB2	2.13	0.49
1:L:195:LEU:HD12	1:L:196:THR:N	2.28	0.49
3:I:1295:GLU:HB3	3:I:1300:SER:HB3	1.95	0.49
3:I:660:LYS:CA	3:I:660:LYS:HZ1	2.25	0.49
2:M:906:PHE:CE1	3:N:1067:VAL:HA	2.48	0.49
1:K:117:VAL:CG1	1:K:120:VAL:CG1	2.91	0.49
3:D:36:THR:HB	3:D:38:LYS:HB2	1.95	0.49
2:H:380:ALA:O	2:H:384:GLU:HB2	2.12	0.49
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.95	0.49
1:F:70:GLY:N	2:H:607:ASP:OD1	2.30	0.49
3:N:1063:GLU:CD	3:N:1064:GLY:H	2.15	0.49
2:H:278:GLU:HA	2:H:283:ILE:HA	1.94	0.48
3:I:89:ARG:O	3:I:521:PRO:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1019:GLN:OE1	3:I:621:LYS:CB	2.61	0.48
3:N:525:ARG:HG2	3:N:525:ARG:O	2.12	0.48
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.48	0.48
3:N:169:TYR:CE2	3:N:196:VAL:O	2.66	0.48
3:N:205:TYR:C	3:N:205:TYR:CD2	2.86	0.48
3:N:432:TYR:CB	3:N:450:TYR:CD2	2.96	0.48
3:N:100:ALA:CB	3:N:128:TYR:CZ	2.95	0.48
3:N:95:LEU:HA	3:N:551:ASN:OD1	2.13	0.48
2:M:258:TYR:OH	2:M:290:LEU:HD21	2.13	0.48
3:D:431:VAL:HG12	3:D:432:TYR:N	2.27	0.48
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.13	0.48
3:N:1256:LEU:O	3:N:1259:VAL:N	2.46	0.48
2:M:6:PHE:CZ	2:M:901:TYR:HB3	2.46	0.48
3:N:355:VAL:HG21	3:N:367:ILE:HG23	1.94	0.48
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.94	0.48
7:X:83:ILE:HD13	7:X:89:VAL:HG21	1.96	0.48
2:M:650:ARG:HG2	2:M:653:ASP:OD2	2.13	0.48
1:B:143:ARG:HD3	1:B:158:ILE:HG21	1.95	0.48
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.93	0.48
2:C:11:GLU:CD	2:C:537:LYS:NZ	2.66	0.48
3:D:1312:LEU:HD12	3:D:1327:ARG:NH2	2.28	0.48
2:H:478:VAL:HA	2:H:506:ASN:O	2.13	0.48
2:M:806:LEU:HB2	2:M:822:VAL:HG22	1.95	0.48
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.95	0.48
4:E:41:GLU:N	4:E:42:PRO:CD	2.76	0.48
2:H:477:GLY:O	2:H:507:ARG:HA	2.13	0.48
1:A:14:ARG:HH21	2:C:934:PHE:HZ	1.61	0.48
2:H:142:ARG:HD2	2:H:147:TYR:CE1	2.47	0.48
7:Y:85:LEU:HD21	7:Y:121:ASP:CG	2.32	0.48
3:I:1356:TYR:HD2	3:I:1361:VAL:HG11	1.76	0.48
4:J:40:LEU:C	4:J:40:LEU:HD12	2.34	0.48
3:N:1408:ILE:HD12	3:N:1408:ILE:H	1.76	0.48
1:K:41:ARG:HG3	1:K:177:VAL:CG1	2.43	0.48
2:H:1085:PHE:CE2	3:I:1468:LEU:CG	2.91	0.48
2:C:432:ARG:HH22	3:D:1047:LYS:CD	2.24	0.48
2:C:185:LYS:HG2	2:C:190:LYS:HG3	1.87	0.48
2:M:163:ILE:HG23	2:M:163:ILE:O	2.14	0.48
2:M:265:ARG:HD3	2:M:267:TYR:CG	2.48	0.48
2:M:437:ARG:HH22	2:M:488:ALA:HA	1.70	0.48
2:M:432:ARG:HD3	3:N:1048:PRO:HG2	1.94	0.48
2:M:203:ASP:O	2:M:207:LEU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1437:ALA:HB3	3:I:1446:VAL:CG1	2.43	0.48
3:N:1264:GLU:HG2	3:N:1266:ARG:NH2	2.28	0.48
3:D:1103:HIS:CD2	3:D:1463:LYS:HB2	2.48	0.48
2:C:1036:GLU:HG3	3:D:707:THR:CB	2.43	0.48
3:D:1106:VAL:HG12	3:D:1107:VAL:H	1.78	0.48
3:N:704:ARG:NH1	3:N:743:ASP:HB3	2.27	0.48
3:N:729:HIS:HB3	3:N:732:VAL:HG22	1.94	0.48
1:F:69:PRO:O	1:F:71:VAL:HG23	2.13	0.48
1:K:8:ALA:O	1:K:9:PRO:C	2.52	0.48
3:I:982:PHE:HE1	7:Y:100:LEU:HD21	1.78	0.48
3:N:1042:ARG:HH11	3:N:1042:ARG:CB	2.26	0.48
2:C:501:THR:HG21	2:C:513:VAL:CG1	2.44	0.48
3:N:841:TYR:HB2	3:N:864:VAL:HG11	1.96	0.48
2:C:754:ILE:H	2:C:754:ILE:CD1	2.25	0.48
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.48	0.48
3:D:907:GLU:N	3:D:910:SER:OG	2.46	0.48
3:D:796:ARG:HB2	3:D:828:LYS:HD3	1.95	0.48
3:N:36:THR:HB	3:N:38:LYS:HB2	1.95	0.48
1:L:108:GLU:OE1	1:L:128:HIS:NE2	2.45	0.48
3:D:415:VAL:HG12	3:D:416:ALA:N	2.28	0.48
2:H:211:LEU:HG	2:H:218:VAL:HG22	1.95	0.48
2:H:1085:PHE:CD2	3:I:1468:LEU:HA	2.48	0.48
2:C:182:VAL:CG1	2:C:193:LEU:CB	2.90	0.48
2:C:140:ILE:HG23	2:C:410:ILE:CG2	2.43	0.48
2:M:54:ILE:CG2	2:M:54:ILE:O	2.60	0.48
2:C:685:GLU:CD	7:X:41:ASP:OD1	2.51	0.48
2:M:334:ARG:HG2	2:M:338:GLU:OE2	2.12	0.48
3:D:1029:ARG:HH21	7:X:42:ASP:HB3	1.78	0.48
2:C:879:ARG:HH22	7:X:42:ASP:HB2	1.76	0.48
3:I:872:ARG:CZ	1:L:162:ILE:HG21	2.42	0.48
2:H:50:GLU:HG3	2:H:266:ARG:NE	2.28	0.48
2:M:258:TYR:OH	2:M:290:LEU:CD2	2.62	0.48
2:H:544:THR:O	2:H:547:ILE:HD12	2.12	0.48
3:I:182:GLY:N	3:I:441:ARG:HD3	2.28	0.48
2:M:544:THR:O	2:M:547:ILE:HD12	2.12	0.48
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.33	0.48
1:F:35:THR:HG21	1:G:43:ILE:CD1	2.43	0.48
2:M:118:ILE:HD12	2:M:119:PRO:O	2.12	0.48
3:I:1264:GLU:CD	3:I:1424:VAL:HG13	2.31	0.48
3:N:1384:PRO:CB	3:N:1388:ARG:HH12	2.26	0.48
1:B:152:PRO:CG	3:D:857:ILE:HD11	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:695:ILE:HD11	3:N:718:PRO:HB2	1.95	0.48
4:E:47:LYS:C	4:E:54:LEU:HD12	2.32	0.48
1:G:195:LEU:HD12	1:G:196:THR:N	2.28	0.48
3:D:33:ASN:HD21	3:D:35:ARG:CZ	2.26	0.48
4:O:41:GLU:HG2	4:O:42:PRO:N	2.27	0.48
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.13	0.48
2:M:86:LYS:O	2:M:813:VAL:HG23	2.14	0.48
3:D:911:LEU:HD23	3:D:934:LEU:HD13	1.94	0.48
1:B:58:ILE:HG21	1:B:68:ILE:CD1	2.43	0.48
3:N:1111:ASP:CG	3:N:1203:LYS:HD2	2.33	0.48
2:M:154:ARG:NH1	2:M:178:PRO:HG3	2.28	0.48
1:F:189:ARG:CG	1:F:189:ARG:NH1	2.72	0.48
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.78	0.48
3:D:1063:GLU:CD	3:D:1064:GLY:H	2.15	0.48
7:Z:76:GLU:O	7:Z:76:GLU:OE2	2.32	0.48
3:N:1397:LYS:NZ	3:N:1432:LYS:HZ3	2.12	0.48
1:F:33:GLY:O	1:F:195:LEU:HD13	2.13	0.48
2:C:165:LEU:CB	2:C:265:ARG:HH12	2.23	0.48
2:C:208:ALA:HB2	2:C:222:MET:HG3	1.95	0.48
2:C:265:ARG:HG2	2:C:267:TYR:H	1.78	0.48
3:I:135:LEU:HD22	3:I:149:LYS:O	2.13	0.48
3:D:1434:TRP:CE2	3:D:1435:LEU:HD12	2.48	0.48
3:I:617:ASN:HB3	3:I:1467:ILE:HA	1.95	0.48
2:H:591:SER:O	2:H:592:LEU:HB2	2.13	0.48
2:M:128:ILE:C	2:M:129:ILE:HD12	2.32	0.48
2:M:435:TYR:HA	3:N:1071:PHE:CE2	2.48	0.48
2:M:1086:ARG:HH22	2:M:1111:ILE:HD11	1.78	0.48
3:N:148:GLU:CG	3:N:151:GLN:HB3	2.41	0.48
3:N:1452:ILE:HD12	3:N:1452:ILE:N	2.29	0.48
2:C:662:GLU:OE1	2:C:663:ASN:HB2	2.13	0.48
3:N:1209:LEU:O	3:N:1210:SER:C	2.48	0.48
3:D:1263:PHE:HB3	3:D:1424:VAL:HG11	1.96	0.48
2:H:326:ASP:O	2:H:328:LEU:HD12	2.13	0.48
4:J:26:ARG:HE	4:J:30:LEU:HD11	1.78	0.48
3:I:1312:LEU:HD12	3:I:1327:ARG:NH2	2.28	0.48
1:B:122:ILE:N	1:B:122:ILE:CD1	2.70	0.48
3:I:882:PHE:HE1	3:I:934:LEU:HD21	1.77	0.48
2:H:863:ASP:CG	2:H:865:THR:HG22	2.33	0.48
2:M:794:PRO:HG2	2:M:1025:ALA:CA	2.40	0.48
2:H:379:GLU:O	2:H:383:ARG:HB3	2.14	0.48
1:B:195:LEU:HD12	1:B:196:THR:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:756:VAL:HB	2:C:790:LEU:HB3	1.95	0.48
3:N:804:LEU:HD23	3:N:804:LEU:H	1.78	0.48
4:O:41:GLU:N	4:O:42:PRO:CD	2.76	0.48
1:L:156:HIS:CE1	1:L:158:ILE:HG12	2.48	0.48
2:H:405:ARG:HD2	2:H:442:GLU:OE1	2.14	0.48
2:C:1046:ALA:HB2	3:D:1476:THR:HB	1.94	0.48
3:N:911:LEU:HD23	3:N:934:LEU:HD13	1.94	0.48
3:I:896:ALA:O	3:I:900:ILE:HG23	2.12	0.48
2:M:77:PRO:CD	2:M:91:GLN:O	2.61	0.48
3:I:102:ILE:HD11	3:I:106:LYS:HB2	1.95	0.48
3:N:102:ILE:HG21	3:N:583:ASP:HB3	1.95	0.48
1:B:179:PHE:N	1:B:179:PHE:CD2	2.79	0.48
1:A:117:VAL:CG1	1:A:120:VAL:CG1	2.91	0.48
3:I:544:TYR:O	3:I:548:ILE:HG12	2.12	0.48
2:H:998:TYR:O	2:H:998:TYR:CG	2.66	0.48
3:I:473:LEU:HA	3:I:476:GLU:HB2	1.96	0.48
2:H:679:PHE:HB2	2:H:683:ASN:ND2	2.23	0.48
2:H:689:VAL:HG11	2:H:853:LEU:HD22	1.95	0.48
3:I:783:ARG:CZ	3:I:1029:ARG:NH2	2.76	0.48
2:C:26:TYR:CE2	2:C:127:PHE:CZ	3.02	0.48
3:I:621:LYS:HA	3:I:621:LYS:HD3	1.38	0.48
3:D:124:GLU:CD	3:D:128:TYR:HE1	2.17	0.48
2:C:185:LYS:HG2	2:C:190:LYS:CA	2.44	0.48
3:N:501:ALA:CB	3:N:1453:ALA:HB2	2.44	0.48
3:N:103:TRP:NE1	3:N:604:THR:OG1	2.20	0.48
3:I:107:ASP:OD1	3:I:1444:THR:CG2	2.53	0.48
3:I:1440:PHE:O	3:I:1441:GLN:O	2.32	0.48
2:H:69:LEU:HG	2:H:97:ARG:O	2.14	0.48
1:L:77:GLU:HA	1:L:80:LEU:HD22	1.95	0.48
2:C:546:LEU:C	2:C:581:THR:HG21	2.34	0.48
3:I:202:VAL:HB	3:I:396:VAL:CG2	2.43	0.48
2:C:129:ILE:N	2:C:129:ILE:CD1	2.76	0.48
2:H:52:PHE:CE1	2:H:67:ASP:C	2.86	0.48
2:H:557:ARG:HG3	2:H:557:ARG:HH11	1.79	0.48
2:H:840:ALA:CB	2:H:846:LYS:HA	2.43	0.48
3:N:638:LYS:HD3	3:N:932:ASP:CG	2.34	0.48
3:D:728:LEU:HD22	3:D:745:MET:SD	2.52	0.48
3:D:1412:LYS:HE2	3:D:1414:PRO:HG3	1.96	0.48
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.77	0.48
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.95	0.48
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:270:GLY:O	2:C:274:ARG:HB3	2.13	0.48
2:H:508:ILE:HG22	2:H:509:ALA:H	1.78	0.48
3:N:843:PHE:HB2	3:N:866:VAL:HG22	1.95	0.48
2:H:583:LEU:O	2:H:587:VAL:HG23	2.14	0.48
3:N:849:ALA:O	3:N:853:VAL:HG23	2.14	0.48
7:X:7:LEU:HD22	7:X:109:GLU:HB2	1.94	0.48
2:C:794:PRO:HD2	2:C:1024:LYS:O	2.13	0.48
2:C:1014:SER:HB2	2:C:1021:LEU:CD1	2.43	0.48
3:I:1084:THR:HA	3:I:1087:ARG:HH11	1.78	0.48
1:L:78:ILE:O	1:L:82:LEU:HG	2.13	0.48
2:C:326:ASP:OD2	2:C:426:ASP:OD1	2.32	0.48
2:H:549:PHE:HB3	2:H:552:HIS:HD2	1.78	0.48
3:D:415:VAL:HG13	3:D:419:ASP:HB2	1.94	0.48
3:I:1089:ALA:C	3:I:1091:SER:N	2.66	0.48
2:C:640:ARG:NH1	2:C:640:ARG:HG2	2.29	0.48
2:C:322:VAL:O	2:C:322:VAL:HG23	2.13	0.48
2:C:998:TYR:O	2:C:998:TYR:CG	2.66	0.48
4:O:43:GLU:O	4:O:44:GLU:HB2	2.14	0.48
2:C:104:ASP:O	2:C:106:GLY:N	2.46	0.48
2:C:85:GLU:O	2:C:824:ARG:NH2	2.47	0.48
2:M:708:TYR:CE2	2:M:793:PRO:HD2	2.49	0.48
2:H:79:PRO:HG2	2:H:82:GLU:CG	2.43	0.48
3:I:50:PHE:O	3:I:89:ARG:HG2	2.08	0.48
2:C:327:HIS:CE1	2:C:488:ALA:HB1	2.49	0.48
3:D:687:VAL:HG13	3:D:688:TRP:N	2.28	0.48
2:M:840:ALA:CB	2:M:846:LYS:HA	2.44	0.48
3:N:645:PRO:HG3	3:N:725:SER:O	2.14	0.48
2:C:1095:LEU:HD11	2:C:1097:LEU:HD22	1.93	0.48
3:D:525:ARG:HG2	3:D:525:ARG:O	2.12	0.48
3:I:619:LEU:N	3:I:619:LEU:HD23	2.29	0.48
2:H:338:GLU:C	2:H:341:THR:HG22	2.33	0.48
3:I:111:LYS:HG3	3:I:1452:ILE:HG12	1.95	0.48
3:D:1209:LEU:HD12	3:D:1215:VAL:HA	1.94	0.48
3:D:1257:PRO:O	3:D:1261:GLU:HB2	2.13	0.48
1:B:73:GLU:CD	1:B:130:ALA:HA	2.33	0.48
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.13	0.48
3:N:704:ARG:NH2	6:U:16:G:C2'	2.76	0.48
3:I:1161:GLU:CD	3:I:1164:ARG:HB2	2.34	0.48
2:H:1046:ALA:HA	3:I:1472:ILE:HD13	1.95	0.48
3:I:606:ILE:CD1	3:I:613:ARG:HE	2.26	0.48
3:I:1264:GLU:HG2	3:I:1266:ARG:NH2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:434:ARG:HB2	3:I:449:SER:OG	2.14	0.48
3:N:171:LEU:C	3:N:171:LEU:HD23	2.34	0.48
2:H:294:GLU:HG2	2:H:295:ASP:OD2	2.12	0.48
3:I:820:GLU:HG3	3:I:836:VAL:HG21	1.95	0.48
3:I:835:SER:O	3:I:837:GLY:N	2.46	0.48
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.13	0.48
2:C:30:LEU:HB3	2:C:44:ILE:HG13	1.96	0.48
3:N:907:GLU:N	3:N:910:SER:OG	2.46	0.48
3:I:1399:ASP:O	3:I:1403:LEU:HB2	2.14	0.48
3:I:546:ARG:HH12	3:I:550:ARG:HH21	1.60	0.48
7:X:16:MET:SD	7:X:69:LEU:HD13	2.54	0.48
3:N:1164:ARG:NH2	3:N:1170:ASP:OD1	2.47	0.48
1:B:15:THR:O	1:B:15:THR:HG23	2.13	0.48
2:H:724:ARG:HG2	2:H:724:ARG:O	2.14	0.48
2:H:309:TYR:OH	2:H:319:GLY:O	2.30	0.48
3:N:813:LEU:CD1	3:N:814:ALA:N	2.72	0.48
3:N:1434:TRP:CD1	3:N:1435:LEU:N	2.82	0.48
3:I:1034:GLN:O	3:I:1037:GLN:N	2.46	0.48
1:B:80:LEU:HG	3:D:844:ALA:HA	1.96	0.48
2:C:565:GLN:HE21	2:C:842:ARG:CG	2.07	0.48
1:F:42:ARG:NH1	1:G:34:VAL:CB	2.57	0.48
3:N:1312:LEU:HD12	3:N:1327:ARG:NH2	2.28	0.48
3:I:805:GLU:O	3:I:809:PRO:HD2	2.13	0.48
3:I:1273:VAL:O	3:I:1325:LEU:HB2	2.13	0.48
2:H:1013:TYR:HD1	2:H:1020:PRO:HA	1.79	0.48
3:I:729:HIS:HB3	3:I:732:VAL:HG22	1.94	0.48
1:G:41:ARG:NH1	1:G:177:VAL:CG2	2.69	0.48
1:G:212:ASN:O	1:G:215:VAL:CG2	2.54	0.48
4:O:57:ASP:H	4:O:58:PRO:HD3	1.79	0.48
3:I:922:LEU:N	3:I:922:LEU:CD2	2.75	0.48
1:G:86:VAL:HG12	1:G:124:ASN:HB2	1.96	0.48
3:I:501:ALA:HB1	3:I:1453:ALA:HB2	1.96	0.48
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.14	0.48
1:K:150:TYR:OH	2:M:695:LEU:HD22	2.13	0.48
3:N:102:ILE:HD11	3:N:106:LYS:HB2	1.95	0.48
3:D:583:ASP:HB2	3:D:604:THR:OG1	2.13	0.48
2:C:1072:LYS:O	3:D:659:LYS:HE2	2.13	0.48
1:G:115:LEU:HA	1:G:116:PRO:HD3	1.71	0.48
2:M:322:VAL:O	2:M:322:VAL:HG23	2.13	0.48
2:H:640:ARG:NH1	2:H:640:ARG:HG2	2.29	0.48
2:C:617:ASP:OD1	2:C:618:GLY:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:210:ARG:N	3:D:389:GLU:HB2	2.29	0.48
3:D:563:PRO:HA	2:H:223:ASP:CB	2.34	0.48
2:H:200:LEU:HD13	2:H:300:ASP:OD2	2.14	0.48
2:H:203:ASP:HB2	2:H:206:THR:HG22	1.96	0.48
3:I:645:PRO:HG3	3:I:725:SER:O	2.14	0.48
2:C:133:ASP:N	2:C:133:ASP:OD2	2.45	0.48
2:C:217:LEU:O	2:C:220:GLY:N	2.27	0.48
2:H:124:ASP:N	2:H:124:ASP:OD1	2.40	0.48
2:M:831:ARG:HD2	2:M:1000:MET:CE	2.44	0.48
2:H:332:ARG:HG3	2:H:465:GLY:CA	2.28	0.48
3:N:1434:TRP:NE1	3:N:1435:LEU:CD1	2.77	0.48
2:M:302:VAL:C	2:M:305:PRO:HD2	2.33	0.48
3:D:158:TYR:HD1	3:D:162:ARG:CB	2.20	0.48
3:I:1042:ARG:CB	3:I:1042:ARG:HH11	2.26	0.48
1:L:41:ARG:NH1	1:L:177:VAL:CG2	2.74	0.48
2:C:886:LEU:HD11	3:D:951:ILE:HD12	1.95	0.48
3:N:1101:VAL:CG1	3:N:1424:VAL:HG23	2.40	0.48
2:H:245:GLY:C	2:H:246:ASP:CG	2.71	0.48
2:H:170:PRO:HG2	2:H:258:TYR:CD1	2.48	0.48
3:I:28:LYS:N	3:I:42:ASP:O	2.45	0.48
1:B:62:LEU:CD1	1:B:63:HIS:N	2.71	0.48
1:B:41:ARG:CG	1:B:177:VAL:HG21	2.27	0.48
2:M:113:VAL:O	2:M:115:LEU:HD22	2.13	0.48
1:F:128:HIS:HE1	1:F:131:THR:CG2	2.24	0.48
5:R:20:DG:H22	6:S:11:C:H42	1.60	0.48
3:I:1195:GLN:HG3	3:I:1196:THR:N	2.29	0.48
3:I:911:LEU:HD23	3:I:934:LEU:HD13	1.94	0.48
3:I:661:MET:CE	3:I:673:ALA:HB1	2.44	0.48
3:N:701:LEU:HD13	3:N:748:HIS:HB2	1.96	0.48
2:H:754:ILE:H	2:H:754:ILE:CD1	2.25	0.48
2:M:722:ILE:O	2:M:722:ILE:HG23	2.14	0.48
2:H:523:ILE:HD13	2:H:523:ILE:C	2.32	0.48
2:M:1034:GLU:CD	3:N:1096:ARG:HH22	2.16	0.48
3:D:1488:ASP:N	3:D:1488:ASP:OD1	2.46	0.48
1:F:89:PHE:HD1	1:F:120:VAL:CG2	2.25	0.48
3:D:1401:GLU:OE1	3:D:1415:VAL:HG11	2.14	0.48
3:N:1128:VAL:HG12	3:N:1129:THR:HG22	1.95	0.48
3:D:97:THR:HB	3:D:571:LYS:HE2	1.94	0.48
3:N:811:GLU:O	3:N:815:ALA:HB3	2.14	0.48
2:H:630:ARG:HD2	2:H:634:GLY:HA2	1.96	0.48
2:C:182:VAL:HG11	2:C:193:LEU:HD23	1.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:267:TYR:CB	2:C:272:ALA:CB	2.79	0.48
2:M:96:ALA:O	2:M:98:LEU:CD1	2.61	0.48
2:M:876:VAL:H	2:M:877:PRO:HD2	1.77	0.48
2:M:313:LEU:HD13	2:M:321:GLU:CG	2.42	0.48
2:M:432:ARG:HD3	3:N:1048:PRO:CG	2.44	0.48
2:M:487:THR:HG22	2:M:489:THR:OG1	2.13	0.48
3:N:123:LEU:O	3:N:126:VAL:HB	2.13	0.48
1:G:110:LYS:HD3	1:G:126:ASP:HA	1.96	0.48
3:I:700:VAL:HG12	3:I:749:VAL:HG13	1.95	0.48
2:C:1085:PHE:CD2	3:D:1468:LEU:HD23	2.48	0.48
2:H:168:ARG:HG2	2:H:263:ASP:OD2	2.14	0.48
3:D:1144:LEU:HD11	3:D:1186:VAL:HG21	1.96	0.48
2:C:1083:GLU:CD	2:C:1086:ARG:HD2	2.31	0.48
2:H:22:GLN:NE2	2:H:336:VAL:CG2	2.77	0.48
3:N:211:VAL:HG12	3:N:213:VAL:HG22	1.93	0.48
7:Y:6:LYS:HD3	7:Y:75:LEU:HD11	1.96	0.48
2:H:701:THR:HG22	2:H:832:LYS:HA	1.96	0.48
3:N:799:LYS:HG2	3:N:799:LYS:O	2.10	0.48
3:N:1252:ILE:HD11	3:N:1329:ALA:HB2	1.95	0.48
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.14	0.48
2:H:26:TYR:CE2	2:H:30:LEU:HD21	2.49	0.48
2:H:984:GLU:HG2	3:I:944:THR:O	2.13	0.48
3:I:957:PRO:HG3	3:I:1007:VAL:HA	1.95	0.48
1:F:13:VAL:N	1:G:229:GLN:O	2.36	0.48
1:K:221:HIS:NE2	1:L:32:PHE:CE2	2.81	0.48
3:D:1176:LYS:O	3:D:1179:GLU:HB2	2.14	0.48
2:M:230:ARG:NH1	2:M:230:ARG:HG2	2.28	0.48
3:I:701:LEU:HD13	3:I:748:HIS:HB2	1.96	0.48
7:Z:128:ALA:CB	7:Z:140:LEU:HD11	2.44	0.48
3:I:199:LEU:HD23	3:I:200:ASP:N	2.29	0.48
3:N:163:TYR:HA	3:N:163:TYR:HD2	1.60	0.48
1:F:41:ARG:HG3	1:F:177:VAL:CG1	2.43	0.48
2:C:910:LYS:O	2:C:914:ILE:HG13	2.14	0.48
2:H:218:VAL:HG12	2:H:222:MET:HG3	1.94	0.48
3:I:451:ASP:O	3:I:452:ILE:HG22	2.14	0.48
2:M:876:VAL:N	2:M:877:PRO:HD2	2.29	0.48
2:C:1092:LEU:HD22	2:C:1099:VAL:HG23	1.96	0.48
3:D:783:ARG:HA	3:D:1028:ALA:HA	1.96	0.48
3:N:153:LEU:C	3:N:153:LEU:CD1	2.82	0.48
3:N:191:LEU:HD13	3:N:393:ILE:CG2	2.44	0.48
3:N:199:LEU:HD23	3:N:200:ASP:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:697:ARG:CD	2:M:699:PHE:CD1	2.92	0.48
2:C:175:GLU:HG2	2:C:183:SER:OG	2.12	0.48
3:D:28:LYS:HG3	3:D:29:PRO:HD2	1.93	0.48
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.11	0.48
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.14	0.48
3:D:1486:VAL:HG23	4:E:29:GLN:OE1	2.14	0.48
2:C:1084:SER:CB	3:D:617:ASN:HD21	2.27	0.48
3:I:160:GLU:CG	3:I:165:LYS:HB2	2.42	0.48
3:I:639:LEU:HD22	3:I:766:ALA:HA	1.96	0.48
2:H:304:LEU:O	2:H:308:ARG:N	2.46	0.48
1:G:170:VAL:O	1:G:170:VAL:HG23	2.14	0.48
1:G:52:ALA:HB1	1:G:170:VAL:H	1.78	0.48
3:D:799:LYS:O	3:D:826:PRO:HD2	2.14	0.48
1:G:57:TYR:CZ	1:G:59:GLU:HA	2.49	0.48
2:M:1046:ALA:HB3	3:N:1476:THR:OG1	2.13	0.48
4:O:3:GLU:OE1	4:O:4:PRO:HD3	2.14	0.48
2:C:122:THR:CB	2:C:124:ASP:OD1	2.56	0.48
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.95	0.48
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.95	0.48
1:L:44:LEU:HA	1:L:48:ILE:CD1	2.40	0.48
2:M:754:ILE:H	2:M:754:ILE:CD1	2.25	0.48
2:M:442:GLU:CG	2:M:454:SER:HB2	2.40	0.48
2:C:64:LEU:CD1	2:C:100:LEU:HD11	2.44	0.48
2:M:449:ILE:CD1	3:N:1081:GLY:HA3	2.44	0.48
2:C:51:THR:OG1	2:C:348:LEU:HB3	2.13	0.48
3:N:1140:ILE:HG22	3:N:1144:LEU:HD12	1.95	0.48
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.49	0.48
1:L:115:LEU:HD12	1:L:115:LEU:C	2.34	0.48
2:C:401:LEU:HD13	2:C:587:VAL:HG11	1.95	0.48
2:C:153:ALA:O	2:C:155:PRO:HD3	2.14	0.48
3:D:206:ARG:HB3	3:D:207:PHE:CE1	2.49	0.47
2:H:191:PHE:HB2	2:H:241:LEU:HD11	1.95	0.47
2:H:1085:PHE:CD2	3:I:1468:LEU:HD23	2.49	0.47
2:M:49:ARG:O	2:M:53:PRO:HD3	2.13	0.47
2:M:69:LEU:HD11	2:M:99:GLN:CD	2.34	0.47
2:M:99:GLN:OE1	2:M:110:GLU:CG	2.59	0.47
2:M:679:PHE:O	2:M:680:ASP:C	2.49	0.47
2:M:850:ALA:CA	3:N:632:VAL:CG1	2.88	0.47
3:D:135:LEU:HB2	3:D:151:GLN:O	2.14	0.47
2:M:333:ILE:CG1	2:M:410:ILE:HD11	2.44	0.47
2:C:878:SER:CB	3:D:1029:ARG:HD3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:176:VAL:HG23	2:M:176:VAL:O	2.14	0.47
1:G:123:MET:C	1:G:125:PRO:HD3	2.34	0.47
3:N:97:THR:HB	3:N:571:LYS:HD2	1.96	0.47
2:M:546:LEU:C	2:M:581:THR:HG21	2.34	0.47
2:C:1086:ARG:HD3	3:D:88:TYR:HE1	1.73	0.47
3:N:367:ILE:HB	3:N:377:VAL:HG12	1.95	0.47
3:N:438:ASP:HB2	3:N:445:ARG:HH12	1.79	0.47
3:D:638:LYS:HD3	3:D:932:ASP:CB	2.44	0.47
3:I:1481:VAL:HG22	4:J:18:ARG:NH2	2.28	0.47
3:I:486:ARG:HA	3:I:489:ARG:CG	2.35	0.47
3:I:1106:VAL:HG21	3:I:1474:ALA:HB2	1.96	0.47
1:L:161:ARG:HG3	1:L:161:ARG:NH1	2.29	0.47
1:L:58:ILE:CG2	1:L:61:VAL:HG23	2.44	0.47
1:A:21:GLY:HA3	1:A:207:PRO:CB	2.43	0.47
2:C:278:GLU:HG3	2:C:279:GLU:N	2.28	0.47
1:F:167:VAL:HG12	1:F:168:ASP:N	2.29	0.47
3:D:1042:ARG:HH11	3:D:1042:ARG:CB	2.26	0.47
2:H:358:ARG:HA	2:H:361:MET:HB3	1.96	0.47
7:X:6:LYS:HB3	7:X:75:LEU:CD1	2.44	0.47
2:H:946:ARG:HD3	2:H:984:GLU:HB2	1.95	0.47
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.14	0.47
2:C:946:ARG:HD3	2:C:984:GLU:HB2	1.95	0.47
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.13	0.47
3:I:1176:LYS:O	3:I:1179:GLU:HB2	2.14	0.47
3:N:514:LEU:HD12	3:N:578:VAL:HG11	1.96	0.47
2:M:998:TYR:CG	2:M:998:TYR:O	2.66	0.47
7:Z:22:GLU:HB3	7:Z:62:ILE:HD11	1.96	0.47
1:F:169:ALA:HB1	1:F:171:PHE:CE2	2.49	0.47
3:I:1401:GLU:OE1	3:I:1415:VAL:HG11	2.14	0.47
3:N:1401:GLU:OE1	3:N:1415:VAL:HG11	2.14	0.47
1:K:26:GLU:HG3	1:K:185:ARG:HB2	1.96	0.47
2:C:992:MET:O	2:C:994:ILE:HD12	2.14	0.47
4:O:40:LEU:C	4:O:40:LEU:HD12	2.34	0.47
3:I:462:GLN:O	3:I:466:LYS:HG3	2.14	0.47
3:D:180:LYS:HG2	3:D:183:GLU:HB2	1.97	0.47
3:I:783:ARG:CD	7:Y:41:ASP:OD2	2.62	0.47
3:D:456:MET:O	3:D:459:GLU:HB3	2.14	0.47
2:M:1005:MET:HA	3:N:628:ARG:O	2.14	0.47
3:N:155:ASP:O	3:N:158:TYR:HB3	2.14	0.47
3:I:1258:ARG:NH2	3:I:1262:LEU:CD1	2.77	0.47
3:D:1216:SER:CB	4:E:16:LYS:H	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:546:LEU:HD13	2:C:565:GLN:OE1	2.14	0.47
2:M:142:ARG:CD	2:M:325:ILE:CG2	2.91	0.47
3:D:102:ILE:HD13	3:D:106:LYS:HB2	1.96	0.47
2:C:18:LEU:O	2:C:408:ARG:NH1	2.47	0.47
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.95	0.47
3:D:850:LEU:HA	3:D:853:VAL:HG23	1.96	0.47
2:H:12:VAL:HG13	2:H:13:ILE:N	2.28	0.47
1:A:91:ASN:HD22	1:A:93:SER:CB	2.27	0.47
3:N:925:GLU:OE2	4:O:3:GLU:O	2.32	0.47
3:N:465:LEU:HD21	3:N:509:PRO:CB	2.44	0.47
3:D:701:LEU:HD13	3:D:748:HIS:HB2	1.96	0.47
3:I:850:LEU:HA	3:I:853:VAL:HG23	1.96	0.47
3:I:1035:ILE:CA	3:I:1038:LEU:HD12	2.42	0.47
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.96	0.47
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.79	0.47
4:E:37:ASN:HD21	4:E:93:TYR:HB3	1.77	0.47
1:F:117:VAL:CG1	1:F:120:VAL:CG1	2.91	0.47
3:I:811:GLU:O	3:I:815:ALA:HB3	2.14	0.47
2:C:630:ARG:HD2	2:C:634:GLY:HA2	1.96	0.47
3:N:1026:SER:C	3:N:1028:ALA:H	2.18	0.47
2:C:236:ILE:HD12	2:C:236:ILE:N	2.29	0.47
1:G:128:HIS:CE1	1:G:131:THR:HG23	2.50	0.47
2:H:676:ILE:HG21	2:H:988:VAL:CG1	2.36	0.47
2:C:195:LEU:HD12	2:C:195:LEU:O	2.15	0.47
2:C:198:ARG:NH1	2:C:204:GLN:HG2	2.29	0.47
2:C:334:ARG:HB3	2:C:339:LEU:HD21	1.96	0.47
3:I:133:ILE:O	3:I:152:LEU:HB3	2.14	0.47
2:M:557:ARG:HH11	2:M:557:ARG:HG3	1.78	0.47
3:D:1442:ASN:HD22	3:D:1445:HIS:H	1.61	0.47
2:M:911:GLU:CD	3:N:951:ILE:CD1	2.74	0.47
2:M:1081:VAL:HG12	2:M:1085:PHE:HB3	1.93	0.47
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.43	0.47
1:K:167:VAL:HG12	1:K:168:ASP:N	2.28	0.47
2:M:831:ARG:NH1	2:M:1000:MET:HG3	2.28	0.47
2:M:831:ARG:NH1	2:M:1002:GLU:CB	2.76	0.47
2:H:402:SER:HA	2:H:566:THR:HG23	1.95	0.47
2:C:571:LEU:HD11	2:C:700:TYR:C	2.33	0.47
3:D:1366:LYS:HA	3:D:1369:GLU:OE1	2.15	0.47
3:I:810:GLU:C	3:I:812:ALA:H	2.15	0.47
1:A:79:ILE:HG13	1:A:80:LEU:N	2.29	0.47
3:N:438:ASP:CB	3:N:445:ARG:HH12	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:631:ILE:CD1	3:D:743:ASP:O	2.54	0.47
1:A:127:LEU:HD12	1:A:128:HIS:N	2.29	0.47
1:K:67:THR:CG2	2:M:627:ARG:NH2	2.77	0.47
1:L:157:GLY:O	1:L:159:LYS:HD3	2.13	0.47
2:C:455:LEU:C	2:C:455:LEU:HD12	2.35	0.47
2:M:653:ASP:OD1	2:M:654:LEU:HD23	2.14	0.47
3:D:849:ALA:O	3:D:853:VAL:HG23	2.14	0.47
2:H:469:THR:CG2	2:H:470:PRO:HD2	2.36	0.47
2:M:1056:LYS:CB	3:N:623:VAL:HG13	2.45	0.47
2:H:126:SER:CB	2:H:395:LYS:NZ	2.78	0.47
3:N:115:LEU:O	3:N:115:LEU:HD23	2.14	0.47
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.36	0.47
3:N:1195:GLN:HG3	3:N:1196:THR:N	2.29	0.47
3:N:1252:ILE:CD1	3:N:1329:ALA:HB2	2.44	0.47
3:I:1098:LEU:HD21	3:I:1229:ILE:HG22	1.95	0.47
3:I:849:ALA:O	3:I:853:VAL:HG23	2.14	0.47
3:I:26:VAL:CG2	3:I:26:VAL:O	2.62	0.47
1:A:169:ALA:HB1	1:A:171:PHE:CE2	2.49	0.47
3:D:660:LYS:CA	3:D:660:LYS:HZ1	2.27	0.47
3:N:1137:ARG:NH2	3:N:1172:HIS:NE2	2.63	0.47
2:M:501:THR:CG2	2:M:513:VAL:HG13	2.44	0.47
1:K:24:VAL:HG22	1:K:196:THR:CG2	2.43	0.47
3:N:462:GLN:O	3:N:466:LYS:HG3	2.14	0.47
3:D:546:ARG:CG	3:D:546:ARG:HH11	2.27	0.47
2:H:236:ILE:HD12	2:H:236:ILE:N	2.29	0.47
1:L:95:GLN:HE21	1:L:95:GLN:HB2	1.57	0.47
3:D:361:VAL:HB	3:D:383:GLY:O	2.14	0.47
2:M:992:MET:O	2:M:994:ILE:HD12	2.14	0.47
2:C:674:VAL:HG12	2:C:990:GLY:O	2.13	0.47
1:A:41:ARG:HG3	1:A:177:VAL:CG1	2.43	0.47
3:D:1089:ALA:C	3:D:1091:SER:N	2.66	0.47
2:M:910:LYS:O	2:M:914:ILE:HG13	2.14	0.47
3:D:160:GLU:O	3:D:164:GLY:C	2.53	0.47
3:D:433:GLY:HA3	3:D:447:VAL:O	2.14	0.47
3:I:133:ILE:HG22	3:I:134:VAL:N	2.29	0.47
3:D:86:ARG:HB2	3:D:523:ASP:OD2	2.15	0.47
2:C:557:ARG:HH11	2:C:557:ARG:HG3	1.79	0.47
3:D:645:PRO:HG3	3:D:725:SER:O	2.14	0.47
3:N:142:LEU:HA	3:N:145:VAL:O	2.14	0.47
3:N:169:TYR:HE1	3:N:198:ARG:HG3	1.79	0.47
2:C:572:ILE:CD1	2:C:573:ARG:H	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:691:SER:HB2	2:C:858:MET:SD	2.55	0.47
3:N:1105:ILE:CD1	3:N:1105:ILE:N	2.77	0.47
3:N:1304:LYS:HE2	3:N:1304:LYS:HB3	1.64	0.47
2:H:876:VAL:N	2:H:877:PRO:HD2	2.29	0.47
3:I:810:GLU:C	3:I:812:ALA:N	2.67	0.47
3:D:407:VAL:CG2	3:D:408:GLU:H	2.14	0.47
1:K:127:LEU:HD12	1:K:128:HIS:N	2.29	0.47
3:I:1428:ALA:O	3:I:1431:THR:HG22	2.14	0.47
2:C:354:GLY:O	2:C:358:ARG:HD3	2.15	0.47
3:D:1066:THR:HG22	3:D:1069:GLU:CB	2.38	0.47
2:H:12:VAL:CG1	2:H:534:VAL:HG13	2.44	0.47
1:F:46:SER:HB3	2:H:856:GLU:CG	2.44	0.47
3:N:1462:LEU:HD23	3:N:1472:ILE:HG22	1.95	0.47
1:F:91:ASN:HD22	1:F:93:SER:CB	2.26	0.47
2:M:63:GLY:N	2:M:103:LYS:HG3	2.29	0.47
3:D:553:ARG:HH12	3:D:573:MET:CE	2.27	0.47
3:D:625:TYR:HB3	3:D:749:VAL:CG2	2.43	0.47
3:I:841:TYR:HB2	3:I:864:VAL:HG11	1.95	0.47
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.14	0.47
3:I:1147:ARG:HD2	3:I:1188:VAL:HG21	1.95	0.47
1:G:51:THR:CG2	1:G:145:ASP:O	2.63	0.47
2:M:704:HIS:O	2:M:828:ALA:HA	2.14	0.47
7:Z:58:ILE:HG22	7:Z:62:ILE:CD1	2.44	0.47
1:L:52:ALA:HB1	1:L:170:VAL:H	1.79	0.47
1:B:179:PHE:N	1:B:179:PHE:HD2	2.12	0.47
3:I:593:ASN:CB	3:I:594:PRO:HD2	2.45	0.47
3:D:1089:ALA:C	3:D:1091:SER:H	2.18	0.47
7:Y:66:GLU:O	7:Y:70:SER:HB3	2.15	0.47
1:K:7:LYS:O	1:K:7:LYS:HD3	2.15	0.47
1:B:162:ILE:O	1:B:162:ILE:HD12	2.14	0.47
3:N:1274:ILE:HD12	3:N:1274:ILE:O	2.14	0.47
3:I:457:GLY:C	3:I:459:GLU:N	2.66	0.47
3:D:682:ASP:HB3	3:D:684:LYS:H	1.80	0.47
3:N:1029:ARG:CG	3:N:1029:ARG:HH11	2.27	0.47
3:N:781:PRO:HB2	3:N:786:ILE:CD1	2.44	0.47
3:N:415:VAL:HG23	3:N:435:VAL:HG23	1.95	0.47
2:H:115:LEU:N	2:H:115:LEU:HD23	2.30	0.47
2:H:332:ARG:CD	2:H:464:LEU:O	2.62	0.47
2:M:204:GLN:NE2	2:M:228:ALA:CB	2.76	0.47
2:C:571:LEU:CD1	2:C:701:THR:H	2.27	0.47
3:N:26:VAL:CG2	3:N:26:VAL:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:290:LEU:HB2	2:M:302:VAL:HG11	1.88	0.47
2:H:1012:PRO:HD2	2:H:1026:GLN:CB	2.44	0.47
3:I:695:ILE:HD11	3:I:718:PRO:HB2	1.95	0.47
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.79	0.47
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.49	0.47
3:I:185:VAL:HG21	3:I:203:ALA:CB	2.44	0.47
1:F:206:THR:HG23	1:F:208:LEU:H	1.79	0.47
3:N:638:LYS:O	3:N:640:HIS:N	2.47	0.47
3:N:639:LEU:HD22	3:N:766:ALA:HA	1.96	0.47
2:H:195:LEU:HD12	2:H:195:LEU:O	2.15	0.47
3:D:639:LEU:HD22	3:D:766:ALA:HA	1.96	0.47
1:A:176:ARG:NH1	2:C:865:THR:HB	2.28	0.47
3:I:1462:LEU:HD22	3:I:1472:ILE:HG21	1.97	0.47
3:I:402:PRO:O	3:I:427:VAL:HG21	2.14	0.47
2:M:379:GLU:O	2:M:383:ARG:HB3	2.14	0.47
3:N:984:THR:CG2	3:N:987:GLU:HG3	2.44	0.47
3:I:1046:GLN:HA	3:I:1052:THR:HA	1.95	0.47
3:I:984:THR:CG2	3:I:987:GLU:HG3	2.45	0.47
3:D:695:ILE:HD11	3:D:718:PRO:HB2	1.95	0.47
3:N:434:ARG:O	3:N:447:VAL:CG2	2.58	0.47
3:N:820:GLU:HG3	3:N:836:VAL:HG21	1.96	0.47
2:C:101:ILE:HD13	2:C:108:ILE:CG2	2.43	0.47
7:X:103:GLN:NE2	7:X:105:VAL:CG1	2.77	0.47
2:H:1067:TYR:O	2:H:1071:ILE:HG12	2.13	0.47
2:H:498:GLN:HE21	2:H:498:GLN:CA	2.24	0.47
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.50	0.47
3:N:54:LYS:HG3	3:N:55:ASP:H	1.80	0.47
3:N:540:LEU:N	3:N:540:LEU:HD12	2.29	0.47
2:M:603:VAL:HA	2:M:613:VAL:HG12	1.95	0.47
2:M:474:VAL:CG2	2:M:479:VAL:HG12	2.45	0.47
3:D:811:GLU:O	3:D:815:ALA:HB3	2.14	0.47
7:Y:150:ARG:HH11	7:Y:150:ARG:HB3	1.79	0.47
7:X:74:ILE:O	7:X:74:ILE:HG23	2.15	0.47
2:C:620:LEU:O	2:C:620:LEU:HD12	2.15	0.47
1:A:167:VAL:HG12	1:A:168:ASP:N	2.29	0.47
2:H:714:ASP:OD1	2:H:719:PRO:HG3	2.15	0.47
3:I:167:GLU:HG2	3:I:169:TYR:CE1	2.50	0.47
3:D:352:ASN:C	3:D:368:VAL:HG13	2.35	0.47
2:C:139:GLN:O	2:C:333:ILE:HA	2.15	0.47
3:N:1041:LEU:HD12	3:N:1058:ARG:CA	2.44	0.47
2:M:140:ILE:CG2	2:M:410:ILE:HD13	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:163:ILE:HD12	2:M:171:TRP:CZ3	2.50	0.47
2:M:332:ARG:HG3	2:M:465:GLY:HA3	1.96	0.47
2:M:487:THR:HG22	2:M:489:THR:H	1.78	0.47
2:C:876:VAL:N	2:C:877:PRO:HD2	2.29	0.47
2:M:157:ARG:NE	2:M:314:THR:HG23	2.28	0.47
3:N:162:ARG:HA	3:N:162:ARG:HD3	1.71	0.47
3:N:148:GLU:HB3	3:N:151:GLN:CB	2.45	0.47
2:H:546:LEU:C	2:H:581:THR:HG21	2.34	0.47
2:H:546:LEU:HD13	2:H:565:GLN:OE1	2.14	0.47
2:M:188:LYS:NZ	2:M:188:LYS:CA	2.78	0.47
1:G:35:THR:O	1:G:39:PRO:HG2	2.14	0.47
3:D:661:MET:CE	3:D:673:ALA:HB1	2.44	0.47
3:I:1106:VAL:CG1	3:I:1107:VAL:N	2.73	0.47
3:I:907:GLU:N	3:I:910:SER:OG	2.46	0.47
2:M:662:GLU:OE1	2:M:663:ASN:HB2	2.13	0.47
3:D:799:LYS:HE2	3:D:824:ASN:O	2.14	0.47
2:H:653:ASP:OD1	2:H:654:LEU:HD23	2.14	0.47
3:N:1462:LEU:HD23	3:N:1472:ILE:CG2	2.45	0.47
2:M:472:ARG:NH1	2:M:480:THR:O	2.47	0.47
2:M:405:ARG:HD2	2:M:442:GLU:OE1	2.14	0.47
2:M:630:ARG:HD2	2:M:634:GLY:HA2	1.96	0.47
3:N:102:ILE:HD13	3:N:106:LYS:HB2	1.96	0.47
1:K:169:ALA:HB1	1:K:171:PHE:CE2	2.49	0.47
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.96	0.47
3:N:689:ASP:O	3:N:693:GLU:HB2	2.15	0.47
3:N:607:LEU:HD23	3:N:607:LEU:HA	1.65	0.47
2:H:610:ARG:NH1	2:H:610:ARG:HG3	2.29	0.47
2:H:910:LYS:O	2:H:914:ILE:HG13	2.14	0.47
3:D:148:GLU:N	3:D:148:GLU:OE2	2.48	0.47
3:I:1274:ILE:HD12	3:I:1274:ILE:O	2.14	0.47
2:H:992:MET:O	2:H:994:ILE:HD12	2.14	0.47
3:D:393:ILE:N	3:D:393:ILE:CD1	2.75	0.47
3:D:145:VAL:CG2	3:D:146:PRO:CD	2.86	0.47
3:D:204:LEU:O	3:D:393:ILE:HA	2.15	0.47
3:I:1459:LEU:HD13	3:I:1468:LEU:CD1	2.45	0.47
3:I:949:ILE:N	3:I:949:ILE:HD12	2.29	0.47
2:C:251:ASP:O	2:C:253:ALA:N	2.48	0.47
2:C:302:VAL:O	2:C:306:THR:HG23	2.15	0.47
3:I:123:LEU:CD1	3:I:152:LEU:HD11	2.44	0.47
3:I:456:MET:O	3:I:459:GLU:HB3	2.14	0.47
2:M:564:MET:SD	2:M:846:LYS:CE	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:10:ILE:O	3:D:1454:GLY:HA2	2.14	0.47
2:M:129:ILE:HG12	2:M:134:ARG:HD2	1.93	0.47
3:N:191:LEU:O	3:N:192:ALA:CB	2.58	0.47
2:M:402:SER:HA	2:M:566:THR:HG23	1.95	0.47
3:D:484:PRO:HB3	3:D:488:ARG:CG	2.44	0.47
2:H:604:ALA:HB3	2:H:612:VAL:O	2.14	0.47
2:H:338:GLU:HA	2:H:341:THR:HG22	1.96	0.47
2:H:1092:LEU:HD22	2:H:1099:VAL:HG23	1.97	0.47
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.45	0.47
4:J:47:LYS:O	4:J:54:LEU:HD12	2.15	0.47
3:D:1101:VAL:HG11	3:D:1424:VAL:CG2	2.42	0.47
3:D:1363:LEU:HD11	3:D:1368:ILE:HD11	1.97	0.47
3:D:1459:LEU:HD11	3:D:1468:LEU:HD12	1.97	0.47
3:D:129:PHE:O	3:D:130:SER:CB	2.62	0.47
4:J:25:LYS:C	4:J:28:GLN:HG3	2.35	0.47
3:N:1035:ILE:CA	3:N:1038:LEU:HD12	2.41	0.47
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.15	0.47
2:C:1010:THR:CG2	2:C:1011:GLY:N	2.77	0.47
2:H:444:PRO:CD	2:H:452:ILE:O	2.62	0.47
3:N:638:LYS:HD3	3:N:932:ASP:CB	2.44	0.47
3:I:814:ALA:O	3:I:818:ARG:HG3	2.15	0.47
3:I:1292:VAL:CG2	3:I:1311:LEU:HD13	2.45	0.47
2:H:1013:TYR:O	2:H:1015:LEU:HD12	2.14	0.47
2:M:199:VAL:HG12	2:M:298:PHE:CE1	2.49	0.47
2:M:316:GLY:O	2:M:318:PRO:HD3	2.13	0.47
2:H:195:LEU:HD13	2:H:234:ALA:HB1	1.92	0.47
3:N:441:ARG:HH11	3:N:445:ARG:NH2	2.12	0.47
3:D:638:LYS:O	3:D:640:HIS:N	2.48	0.47
2:H:455:LEU:HD12	2:H:455:LEU:C	2.35	0.47
2:C:319:GLY:O	2:C:321:GLU:CD	2.53	0.47
3:I:1263:PHE:HB3	3:I:1424:VAL:HG11	1.96	0.47
2:M:588:VAL:HG11	2:M:661:SER:CB	2.45	0.47
7:Y:89:VAL:HG22	7:Y:154:ILE:HG23	1.96	0.47
1:K:91:ASN:HD22	1:K:93:SER:CB	2.27	0.47
2:C:270:GLY:O	2:C:274:ARG:HD3	2.15	0.47
2:M:1051:GLU:OE1	3:N:750:PRO:HA	2.13	0.47
3:D:95:LEU:CD2	3:D:574:LEU:HD21	2.44	0.47
3:D:1137:ARG:HH21	3:D:1172:HIS:CD2	2.31	0.47
3:I:843:PHE:HB2	3:I:866:VAL:HG22	1.95	0.47
3:N:1253:THR:O	3:N:1258:ARG:HB2	2.15	0.47
2:C:107:LEU:C	2:C:108:ILE:HG13	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:HG21	3:D:1078:ARG:HD2	1.96	0.47
2:C:367:LEU:O	2:C:367:LEU:HD12	2.14	0.47
3:N:1282:ARG:HH11	3:N:1282:ARG:HG2	1.80	0.47
3:D:1041:LEU:HD12	3:D:1058:ARG:CA	2.44	0.47
3:I:1120:VAL:HG23	3:I:1188:VAL:CG1	2.45	0.47
3:N:1145:TYR:O	3:N:1147:ARG:HG2	2.14	0.47
4:E:40:LEU:O	4:E:40:LEU:HD12	2.15	0.47
3:I:1282:ARG:HA	3:I:1315:ASP:HA	1.97	0.47
2:M:93:PRO:HA	2:M:117:HIS:ND1	2.30	0.47
7:Y:88:VAL:HG23	7:Y:156:GLY:OXT	2.14	0.47
3:N:1332:PRO:HB2	3:N:1421:LEU:HD21	1.96	0.47
1:B:100:LEU:HB2	1:B:115:LEU:HD21	1.97	0.47
4:O:59:ASN:HD21	4:O:61:VAL:HG23	1.80	0.47
1:L:170:VAL:O	1:L:170:VAL:HG23	2.14	0.47
2:H:487:THR:HB	2:H:490:GLU:CG	2.43	0.47
3:N:1093:TYR:CE2	3:N:1097:LYS:HE3	2.49	0.47
3:D:1274:ILE:HD12	3:D:1274:ILE:O	2.14	0.47
2:M:640:ARG:HG2	2:M:640:ARG:NH1	2.29	0.47
2:H:606:VAL:HG21	2:H:645:VAL:HG22	1.97	0.47
1:B:32:PHE:O	1:B:36:LEU:HG	2.15	0.47
2:H:928:LYS:HZ3	2:H:932:GLU:HG3	1.79	0.47
2:H:353:ARG:HG3	2:H:353:ARG:HH11	1.80	0.47
2:C:226:VAL:HG13	2:C:227:PHE:N	2.30	0.47
3:D:1441:GLN:NE2	3:D:1442:ASN:H	2.12	0.47
3:D:457:GLY:C	3:D:459:GLU:N	2.66	0.47
3:N:672:ALA:O	3:N:675:ARG:HB2	2.15	0.47
1:G:79:ILE:HG13	1:G:80:LEU:N	2.30	0.47
2:M:831:ARG:HH12	2:M:1002:GLU:HB3	1.80	0.47
2:M:196:LEU:O	2:M:200:LEU:HG	2.15	0.47
3:I:1437:ALA:HB3	3:I:1446:VAL:HG13	1.96	0.47
3:N:1263:PHE:HB3	3:N:1424:VAL:HG11	1.96	0.47
3:D:810:GLU:C	3:D:812:ALA:N	2.67	0.47
3:D:1481:VAL:HG12	3:D:1481:VAL:O	2.13	0.47
3:I:183:GLU:O	3:I:185:VAL:HG23	2.15	0.47
1:F:42:ARG:NH2	1:G:31:GLY:O	2.47	0.47
2:H:91:GLN:HB3	2:H:119:PRO:HA	1.97	0.47
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.97	0.47
3:N:1106:VAL:CG1	3:N:1107:VAL:H	2.22	0.47
3:N:1297:GLU:CG	3:N:1298:GLY:N	2.69	0.47
2:C:13:ILE:O	2:C:13:ILE:HG13	2.14	0.47
2:H:946:ARG:HH12	3:I:796:ARG:HH12	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:402:SER:HA	2:C:566:THR:HG23	1.97	0.47
1:B:165:ILE:HA	1:B:166:PRO:HD3	1.68	0.47
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.14	0.47
3:I:6:ARG:HH21	3:I:1482:ARG:HH22	1.63	0.47
2:M:468:ARG:HG2	2:M:486:MET:C	2.34	0.47
3:I:689:ASP:O	3:I:693:GLU:HB2	2.15	0.47
3:I:956:ILE:HD11	3:I:1062:ARG:HG3	1.97	0.47
1:K:222:LEU:HD21	1:L:218:LEU:HD23	1.97	0.47
4:E:83:ASP:O	4:E:86:GLN:HG2	2.15	0.47
2:M:928:LYS:NZ	2:M:932:GLU:HG3	2.30	0.47
2:M:755:LEU:HG	2:M:792:VAL:HG22	1.96	0.47
2:H:885:ILE:HG13	3:I:949:ILE:CG2	2.45	0.47
2:M:109:LYS:HZ3	2:M:367:LEU:C	2.18	0.47
2:H:1091:GLU:CB	3:I:607:LEU:HD21	2.42	0.47
3:N:133:ILE:CG2	3:N:134:VAL:H	2.23	0.47
3:N:814:ALA:O	3:N:818:ARG:HG3	2.15	0.47
2:H:344:PHE:O	2:H:348:LEU:HD13	2.15	0.47
2:C:701:THR:HA	2:C:831:ARG:O	2.15	0.47
3:I:115:LEU:O	3:I:115:LEU:HD23	2.14	0.47
2:M:308:ARG:O	2:M:308:ARG:HG3	2.15	0.47
2:H:101:ILE:HG23	2:H:108:ILE:HG12	1.97	0.47
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.30	0.47
3:D:1260:ILE:O	3:D:1264:GLU:HB2	2.14	0.47
3:D:1120:VAL:HG23	3:D:1188:VAL:HG11	1.97	0.47
1:K:64:GLU:O	1:K:75:VAL:HB	2.14	0.47
3:I:481:MET:HE2	3:I:493:ARG:CB	2.45	0.47
7:X:89:VAL:HG12	7:X:90:GLU:N	2.30	0.47
3:N:1290:LEU:CD1	3:N:1307:LYS:HA	2.45	0.47
3:I:1119:SER:HA	3:I:1186:VAL:O	2.15	0.47
2:C:577:PRO:HG3	2:C:993:PHE:CD1	2.50	0.47
2:M:515:ALA:O	2:M:516:ARG:HD3	2.15	0.47
3:I:800:LYS:HA	3:I:829:VAL:HG13	1.97	0.47
2:M:394:PHE:CD1	2:M:632:ASN:ND2	2.83	0.47
3:D:907:GLU:CG	3:D:908:LYS:N	2.78	0.47
1:G:137:ARG:HB3	1:G:137:ARG:CZ	2.45	0.47
3:I:102:ILE:HD13	3:I:106:LYS:HB2	1.96	0.47
3:N:102:ILE:HD13	3:N:102:ILE:C	2.35	0.47
2:M:266:ARG:NH1	2:M:288:ARG:HH21	2.11	0.47
2:H:966:LEU:HD21	2:H:986:PRO:HG2	1.97	0.47
1:G:179:PHE:HD2	1:G:179:PHE:N	2.12	0.47
2:H:886:LEU:HD12	2:H:886:LEU:HA	1.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:12:LEU:HA	3:D:12:LEU:HD23	1.61	0.47
3:D:396:VAL:HG23	3:D:398:ALA:HB3	1.97	0.47
2:H:285:LEU:HD21	2:H:287:GLY:O	2.15	0.47
2:C:209:ARG:O	2:C:213:ALA:HB2	2.14	0.47
2:C:302:VAL:HG13	2:C:303:PHE:N	2.29	0.47
1:G:185:ARG:HD3	3:I:692:GLU:CG	2.44	0.47
2:M:877:PRO:HG3	3:N:1023:MET:SD	2.55	0.47
3:D:783:ARG:HG2	3:D:784:ASP:N	2.27	0.47
1:G:82:LEU:HD22	1:G:142:VAL:HG11	1.97	0.47
3:I:1363:LEU:HD11	3:I:1368:ILE:HD11	1.97	0.47
3:D:173:PRO:HB3	2:H:279:GLU:CD	2.36	0.47
2:M:1095:LEU:CD1	2:M:1097:LEU:H	2.24	0.47
2:M:184:MET:HB2	2:M:193:LEU:HD21	1.97	0.47
3:I:1441:GLN:CG	3:I:1442:ASN:N	2.77	0.47
3:D:1084:THR:HG22	3:D:1087:ARG:NH1	2.30	0.47
3:N:1256:LEU:N	3:N:1257:PRO:CD	2.78	0.47
3:N:1273:VAL:HG21	3:N:1305:LEU:HD21	1.97	0.47
2:H:1014:SER:C	2:H:1015:LEU:HD12	2.35	0.47
3:N:362:GLU:O	3:N:379:ALA:CB	2.62	0.47
3:N:368:VAL:HB	3:N:377:VAL:CB	2.44	0.47
1:K:141:GLU:OE1	1:K:161:ARG:NH1	2.47	0.47
2:M:863:ASP:O	2:M:865:THR:N	2.48	0.47
2:M:455:LEU:HD12	2:M:455:LEU:C	2.35	0.47
2:M:835:VAL:O	2:M:849:VAL:O	2.33	0.47
7:Y:73:VAL:HG12	7:Y:74:ILE:N	2.29	0.47
3:D:1290:LEU:HD12	3:D:1290:LEU:N	2.30	0.47
1:A:206:THR:HG23	1:A:208:LEU:H	1.80	0.47
1:A:206:THR:CG2	1:A:209:GLU:HG3	2.45	0.47
1:B:152:PRO:CG	3:D:857:ILE:CD1	2.91	0.47
2:C:144:PRO:O	2:C:276:LYS:CE	2.63	0.47
2:C:397:GLU:HG2	2:C:403:SER:HB3	1.97	0.47
1:B:48:ILE:H	1:B:48:ILE:HD12	1.79	0.47
3:D:481:MET:HE2	3:D:493:ARG:HB2	1.97	0.47
2:H:351:LEU:HD11	2:H:374:ASN:H	1.80	0.47
2:M:545:ASN:HA	2:M:905:ILE:HD11	1.97	0.47
3:N:850:LEU:HA	3:N:853:VAL:HG23	1.96	0.47
4:O:35:PHE:CD2	4:O:56:ASP:O	2.68	0.47
1:L:190:THR:HG22	1:L:190:THR:O	2.15	0.47
1:B:170:VAL:HG23	1:B:170:VAL:O	2.14	0.47
3:N:796:ARG:HD3	3:N:1017:PHE:CE1	2.50	0.47
3:N:907:GLU:CG	3:N:908:LYS:N	2.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:66:LEU:HD13	2:C:100:LEU:HB2	1.97	0.47
3:N:1120:VAL:HG23	3:N:1188:VAL:CG1	2.45	0.47
2:C:906:PHE:CZ	3:D:1067:VAL:HA	2.50	0.47
3:D:1231:GLU:CB	3:D:1232:PRO:HD3	2.45	0.47
2:C:835:VAL:O	2:C:849:VAL:O	2.33	0.47
1:K:184:THR:CG2	1:K:185:ARG:N	2.78	0.47
2:M:13:ILE:HG13	2:M:13:ILE:O	2.15	0.47
2:H:679:PHE:O	3:I:943:THR:HG22	2.15	0.46
3:I:1029:ARG:NH2	7:Y:41:ASP:HB3	2.30	0.46
2:C:140:ILE:CG2	2:C:333:ILE:HG13	2.45	0.46
3:D:689:ASP:O	3:D:693:GLU:HB2	2.15	0.46
3:D:127:LEU:HD13	3:D:461:ILE:HD11	1.97	0.46
2:M:145:GLY:CA	2:M:276:LYS:HD3	2.44	0.46
3:N:199:LEU:CG	3:N:200:ASP:H	2.29	0.46
2:M:1092:LEU:HD22	2:M:1099:VAL:HG23	1.97	0.46
3:D:755:ALA:O	3:D:758:GLU:HG2	2.15	0.46
1:K:23:PHE:CD2	1:K:211:LEU:HD22	2.50	0.46
3:D:1102:THR:HG1	3:D:1226:ALA:HB2	1.80	0.46
3:I:202:VAL:O	3:I:395:VAL:CA	2.55	0.46
1:F:18:ARG:NH1	1:F:88:ARG:NE	2.63	0.46
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.50	0.46
3:I:1260:ILE:O	3:I:1264:GLU:HB2	2.14	0.46
3:I:1412:LYS:HE2	3:I:1414:PRO:HG3	1.96	0.46
1:G:62:LEU:HD12	1:G:63:HIS:N	2.21	0.46
1:B:48:ILE:CG2	1:B:173:PRO:HD2	2.45	0.46
3:D:481:MET:HE2	3:D:493:ARG:CB	2.46	0.46
3:N:800:LYS:CE	3:N:830:ALA:HB3	2.45	0.46
3:I:1044:LEU:HD21	3:I:1056:PRO:HG3	1.97	0.46
3:N:1366:LYS:HA	3:N:1369:GLU:OE1	2.15	0.46
3:I:1366:LYS:HA	3:I:1369:GLU:OE1	2.15	0.46
3:I:1332:PRO:HB2	3:I:1421:LEU:HD21	1.97	0.46
1:K:223:THR:C	1:K:225:PHE:H	2.19	0.46
3:D:54:LYS:CG	3:D:55:ASP:N	2.78	0.46
2:M:154:ARG:HH12	2:M:178:PRO:HD3	1.74	0.46
1:L:62:LEU:HD12	1:L:63:HIS:H	1.78	0.46
2:H:515:ALA:O	2:H:516:ARG:HD3	2.15	0.46
2:C:1015:LEU:N	2:C:1015:LEU:CD1	2.78	0.46
2:H:440:PRO:HB2	3:I:1074:SER:OG	2.14	0.46
3:N:54:LYS:HG3	3:N:55:ASP:N	2.30	0.46
1:L:179:PHE:N	1:L:179:PHE:HD2	2.12	0.46
2:C:723:THR:HG23	2:C:725:ASP:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:546:ARG:HG2	3:D:546:ARG:NH1	2.30	0.46
3:D:473:LEU:HA	3:D:476:GLU:HB2	1.96	0.46
3:I:950:GLY:O	3:I:953:ASP:HB2	2.16	0.46
2:C:265:ARG:H	2:C:289:THR:CG2	2.20	0.46
3:N:1044:LEU:HD21	3:N:1056:PRO:HG3	1.97	0.46
3:D:1437:ALA:HB1	3:D:1446:VAL:HG22	1.96	0.46
2:H:1084:SER:HA	2:H:1087:VAL:HG12	1.97	0.46
2:M:267:TYR:CD2	2:M:267:TYR:N	2.82	0.46
2:H:1102:LEU:HA	2:H:1107:ASN:O	2.16	0.46
1:L:65:PHE:CD1	1:L:65:PHE:N	2.84	0.46
2:H:332:ARG:CG	2:H:464:LEU:O	2.63	0.46
2:M:207:LEU:HD22	2:M:221:LEU:HD11	1.97	0.46
2:H:399:ASN:ND2	2:H:568:ALA:HB3	2.30	0.46
2:M:304:LEU:HD11	2:M:308:ARG:CZ	2.45	0.46
3:D:1330:ILE:HG22	3:D:1331:ASP:N	2.30	0.46
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.97	0.46
2:H:4:LYS:NZ	2:H:917:LEU:HD21	2.31	0.46
3:D:810:GLU:C	3:D:812:ALA:H	2.16	0.46
2:C:1081:VAL:HG12	2:C:1085:PHE:HB3	1.93	0.46
3:D:1165:TYR:CD1	3:D:1165:TYR:N	2.83	0.46
3:N:1305:LEU:HD12	3:N:1311:LEU:CD2	2.30	0.46
3:D:1106:VAL:CB	3:D:1108:ARG:HE	2.09	0.46
2:H:444:PRO:HD2	2:H:452:ILE:O	2.15	0.46
3:I:638:LYS:O	3:I:640:HIS:N	2.47	0.46
1:A:128:HIS:HE1	1:A:131:THR:CG2	2.24	0.46
2:C:477:GLY:HA2	2:C:508:ILE:CD1	2.46	0.46
2:C:834:GLN:NE2	3:D:724:GLN:HG3	2.16	0.46
3:I:907:GLU:CG	3:I:908:LYS:N	2.78	0.46
2:C:351:LEU:CD1	2:C:374:ASN:ND2	2.78	0.46
2:M:508:ILE:HG22	2:M:509:ALA:H	1.79	0.46
2:C:515:ALA:O	2:C:516:ARG:HD3	2.15	0.46
3:I:1119:SER:O	3:I:1121:PRO:HD3	2.15	0.46
2:C:1056:LYS:HD3	3:D:623:VAL:HG11	1.96	0.46
1:G:190:THR:O	1:G:190:THR:HG22	2.15	0.46
3:I:800:LYS:HD3	3:I:830:ALA:O	2.15	0.46
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.97	0.46
4:O:25:LYS:O	4:O:28:GLN:HB2	2.15	0.46
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.45	0.46
3:N:1120:VAL:O	3:N:1122:LEU:HD12	2.15	0.46
3:N:1122:LEU:N	3:N:1122:LEU:CD1	2.75	0.46
2:C:361:MET:O	2:C:361:MET:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:483:VAL:HG12	2:H:484:VAL:N	2.30	0.46
2:C:726:ILE:CG1	2:C:734:LEU:HD11	2.43	0.46
3:N:402:PRO:N	3:N:443:VAL:HG23	2.29	0.46
3:D:1332:PRO:HB2	3:D:1421:LEU:HD21	1.96	0.46
2:C:440:PRO:HB2	3:D:1074:SER:OG	2.15	0.46
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.98	0.46
2:H:606:VAL:CG2	2:H:645:VAL:HG22	2.44	0.46
3:N:473:LEU:HA	3:N:476:GLU:HB2	1.96	0.46
2:C:495:THR:HG21	2:C:517:ARG:HH21	1.80	0.46
3:D:388:HIS:O	3:D:390:PRO:HD3	2.15	0.46
2:M:108:ILE:HG22	2:M:109:LYS:N	2.30	0.46
2:M:1112:PHE:O	2:M:1112:PHE:CG	2.67	0.46
2:C:840:ALA:CB	2:C:846:LYS:HA	2.43	0.46
3:N:143:ASN:CB	3:N:161:LEU:HD23	2.46	0.46
3:N:127:LEU:HD23	3:N:134:VAL:HG13	1.97	0.46
2:M:190:LYS:O	2:M:191:PHE:HB3	2.15	0.46
2:C:588:VAL:HG11	2:C:661:SER:HB3	1.98	0.46
2:M:290:LEU:CB	2:M:302:VAL:CG1	2.80	0.46
4:E:31:LEU:HD12	4:E:32:ARG:N	2.30	0.46
2:H:437:ARG:HG2	2:H:467:ILE:HG22	1.96	0.46
2:H:578:VAL:HA	2:H:900:ARG:CG	2.45	0.46
2:C:1038:TRP:O	2:C:1039:ALA:C	2.53	0.46
3:D:408:GLU:CG	3:D:409:VAL:N	2.77	0.46
2:M:939:ARG:HA	2:M:939:ARG:NE	2.14	0.46
2:C:479:VAL:CG2	2:C:506:ASN:HA	2.45	0.46
2:C:863:ASP:O	2:C:865:THR:N	2.48	0.46
3:N:1384:PRO:HG3	3:N:1389:LEU:CB	2.38	0.46
2:M:63:GLY:HA2	2:M:359:MET:HE1	1.96	0.46
3:D:465:LEU:CD1	3:D:510:GLU:HA	2.36	0.46
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.15	0.46
4:O:25:LYS:HE2	4:O:25:LYS:HB3	1.69	0.46
4:O:29:GLN:OE1	4:O:89:MET:HE1	2.15	0.46
3:N:687:VAL:O	3:N:690:ALA:HB3	2.16	0.46
3:N:477:LEU:HD22	3:N:492:ALA:CB	2.40	0.46
4:E:68:LEU:HD12	4:E:73:LEU:HD13	1.96	0.46
3:I:1041:LEU:HD12	3:I:1058:ARG:CA	2.44	0.46
3:N:1202:GLN:HB2	3:N:1217:ILE:HD11	1.97	0.46
3:I:1149:LEU:HG	3:I:1166:LEU:HD22	1.97	0.46
2:C:390:GLN:NE2	6:Q:12:G:OP1	2.49	0.46
3:N:401:TYR:C	3:N:443:VAL:HG23	2.35	0.46
3:N:129:PHE:O	3:N:572:ARG:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:252:LYS:HG2	2:M:252:LYS:H	1.42	0.46
2:H:78:PHE:HB3	2:H:79:PRO:HD2	1.97	0.46
2:H:928:LYS:NZ	2:H:932:GLU:HG3	2.30	0.46
3:N:50:PHE:HD2	3:N:522:PRO:CD	1.74	0.46
2:H:1093:GLN:OE1	3:I:21:TRP:CE3	2.68	0.46
2:C:170:PRO:CG	2:C:258:TYR:CD1	2.92	0.46
3:N:996:TRP:O	3:N:999:THR:HG22	2.16	0.46
2:M:679:PHE:HB2	2:M:683:ASN:ND2	2.23	0.46
3:D:126:VAL:HG12	3:D:132:TYR:CB	2.34	0.46
2:M:139:GLN:O	2:M:333:ILE:HA	2.14	0.46
2:M:415:PRO:HD2	2:M:418:LEU:HD13	1.98	0.46
2:H:415:PRO:HB2	2:H:418:LEU:CD1	2.46	0.46
3:D:1221:VAL:O	3:D:1222:GLY:C	2.53	0.46
2:H:6:PHE:HZ	2:H:917:LEU:CD1	2.27	0.46
1:F:18:ARG:O	1:F:201:THR:OG1	2.32	0.46
2:C:80:GLN:O	2:C:83:CYS:N	2.49	0.46
2:H:335:THR:O	2:H:336:VAL:C	2.54	0.46
3:N:368:VAL:H	3:N:377:VAL:HB	1.80	0.46
3:D:1195:GLN:HG3	3:D:1196:THR:N	2.29	0.46
7:X:81:GLU:OE2	7:X:154:ILE:HD12	2.16	0.46
7:Y:91:LEU:HB3	7:Y:149:PHE:HB3	1.96	0.46
1:A:34:VAL:HG13	1:B:42:ARG:HE	1.79	0.46
3:N:804:LEU:HB2	3:N:830:ALA:O	2.16	0.46
3:N:880:ILE:CG2	3:N:881:LEU:N	2.78	0.46
3:I:1372:VAL:O	3:I:1375:MET:HB2	2.14	0.46
3:D:1061:PHE:CE1	3:D:1065:LEU:HD22	2.41	0.46
7:Y:30:THR:HA	7:Y:55:LYS:HE2	1.98	0.46
1:G:188:GLN:CG	3:I:685:ASP:OD1	2.62	0.46
3:D:1282:ARG:HA	3:D:1315:ASP:HA	1.96	0.46
3:D:1152:GLU:HG2	3:D:1160:LEU:O	2.14	0.46
2:H:606:VAL:HG22	2:H:645:VAL:HG13	1.97	0.46
3:D:420:VAL:HG13	3:D:424:GLY:O	2.16	0.46
2:M:3:ILE:N	2:M:3:ILE:HD12	2.31	0.46
2:M:795:GLY:O	2:M:796:GLU:HG2	2.16	0.46
3:D:183:GLU:O	3:D:185:VAL:HG23	2.15	0.46
2:C:333:ILE:HD12	2:C:333:ILE:N	2.31	0.46
2:C:334:ARG:CB	2:C:339:LEU:HD21	2.46	0.46
3:N:996:TRP:CD1	3:N:1056:PRO:CG	2.98	0.46
3:N:180:LYS:HZ1	3:N:386:HIS:CB	2.29	0.46
1:G:142:VAL:HG23	1:G:142:VAL:O	2.15	0.46
2:M:571:LEU:CD1	2:M:701:THR:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:174:LEU:CD2	2:M:184:MET:HG3	2.45	0.46
3:N:1481:VAL:O	3:N:1481:VAL:HG12	2.16	0.46
3:D:1425:THR:O	3:D:1428:ALA:HB3	2.16	0.46
1:F:206:THR:CG2	1:F:209:GLU:HG3	2.45	0.46
3:N:1325:LEU:HA	3:N:1325:LEU:HD12	1.70	0.46
2:H:54:ILE:CG2	2:H:66:LEU:HB3	2.46	0.46
3:I:806:PHE:O	3:I:808:THR:N	2.48	0.46
2:C:1102:LEU:HA	2:C:1107:ASN:O	2.16	0.46
2:M:235:LEU:HD11	2:M:298:PHE:CE1	2.50	0.46
2:C:1070:ILE:CG2	3:D:655:PRO:HB2	2.45	0.46
2:C:39:ARG:HB2	2:C:45:GLN:NE2	2.30	0.46
3:I:1202:GLN:HB2	3:I:1217:ILE:HD11	1.97	0.46
2:H:953:VAL:O	2:H:955:PRO:HD3	2.15	0.46
1:A:18:ARG:HH11	1:A:123:MET:CE	2.28	0.46
3:D:792:ILE:CD1	3:D:881:LEU:HD23	2.38	0.46
1:A:156:HIS:CD2	1:A:158:ILE:CD1	2.99	0.46
1:B:44:LEU:HA	1:B:48:ILE:HD11	1.97	0.46
2:H:508:ILE:HG22	2:H:509:ALA:N	2.31	0.46
3:I:880:ILE:CG2	3:I:881:LEU:N	2.78	0.46
3:I:881:LEU:HD12	3:I:885:ILE:HD11	1.98	0.46
1:B:85:LEU:HA	1:B:124:ASN:ND2	2.31	0.46
3:I:796:ARG:HD3	3:I:1017:PHE:HE1	1.79	0.46
2:C:64:LEU:HB2	2:C:359:MET:CE	2.46	0.46
2:C:361:MET:HE3	3:I:1317:ASP:HB2	1.97	0.46
3:I:1281:VAL:CG1	3:I:1282:ARG:N	2.78	0.46
2:H:63:GLY:N	2:H:103:LYS:HG3	2.29	0.46
7:X:22:GLU:OE1	7:X:58:ILE:HD12	2.16	0.46
2:H:626:ARG:HB3	2:H:629:TYR:CD1	2.51	0.46
1:F:26:GLU:HB2	1:F:27:PRO:HA	1.98	0.46
2:M:798:GLY:C	2:M:799:ILE:HD13	2.36	0.46
3:N:791:TYR:CD2	3:N:945:SER:HB2	2.51	0.46
1:G:159:LYS:H	1:G:159:LYS:HZ2	1.63	0.46
4:E:3:GLU:OE1	4:E:3:GLU:HA	2.15	0.46
2:H:365:ASP:C	2:H:365:ASP:OD1	2.53	0.46
3:N:709:HIS:HA	3:N:1227:GLN:NE2	2.30	0.46
2:H:1059:ASP:OD1	2:H:1062:GLY:N	2.45	0.46
2:H:269:LEU:HG	2:H:287:GLY:O	2.16	0.46
2:H:874:LEU:HD21	3:I:787:LEU:HD22	1.97	0.46
2:C:184:MET:SD	2:C:191:PHE:HE1	2.39	0.46
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.46	0.46
3:D:682:ASP:O	3:D:683:ILE:CB	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1084:SER:HA	2:M:1087:VAL:HG12	1.97	0.46
2:C:877:PRO:HD3	3:D:949:ILE:HD11	1.98	0.46
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.97	0.46
2:C:571:LEU:HD11	2:C:700:TYR:CA	2.44	0.46
3:D:1094:LEU:HD21	3:D:1259:VAL:HG11	1.96	0.46
3:D:1365:ASP:O	3:D:1366:LYS:C	2.53	0.46
3:D:956:ILE:HD12	3:D:956:ILE:N	2.30	0.46
3:N:1261:GLU:O	3:N:1264:GLU:O	2.34	0.46
2:C:95:TYR:CD2	2:C:114:PHE:CB	2.95	0.46
2:C:80:GLN:O	2:C:83:CYS:HB2	2.16	0.46
3:N:765:SER:OG	3:N:766:ALA:N	2.46	0.46
3:I:806:PHE:C	3:I:808:THR:H	2.17	0.46
3:D:925:GLU:HG2	3:D:926:LYS:N	2.31	0.46
1:K:82:LEU:O	1:K:85:LEU:HB3	2.15	0.46
1:F:127:LEU:HD12	1:F:128:HIS:N	2.29	0.46
1:F:82:LEU:O	1:F:85:LEU:HB3	2.16	0.46
2:C:317:VAL:N	2:C:318:PRO:HD3	2.29	0.46
2:H:794:PRO:CD	2:H:1025:ALA:HA	2.46	0.46
2:M:626:ARG:HB3	2:M:629:TYR:CD1	2.51	0.46
2:C:269:LEU:CD2	2:C:269:LEU:C	2.84	0.46
2:M:1051:GLU:CD	3:N:751:LEU:H	2.19	0.46
2:C:516:ARG:CG	3:D:1068:LEU:HD13	2.46	0.46
3:N:1231:GLU:CB	3:N:1232:PRO:HD3	2.45	0.46
3:D:970:LYS:HZ3	7:X:113:LEU:HD23	1.79	0.46
3:I:1011:PHE:HB3	3:I:1021:TYR:CD1	2.50	0.46
3:D:489:ARG:NH2	3:D:1389:LEU:HD21	2.30	0.46
3:N:1330:ILE:HG22	3:N:1331:ASP:N	2.30	0.46
3:N:1347:TYR:HD2	3:N:1348:LEU:HD12	1.81	0.46
3:I:1330:ILE:HG22	3:I:1331:ASP:N	2.30	0.46
3:N:921:ARG:C	3:N:922:LEU:HD23	2.36	0.46
2:M:984:GLU:HG3	3:N:944:THR:O	2.14	0.46
3:I:102:ILE:C	3:I:102:ILE:HD13	2.35	0.46
2:M:215:GLY:O	2:M:216:GLU:CB	2.63	0.46
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.50	0.46
3:I:1083:ASP:O	3:I:1087:ARG:HB3	2.16	0.46
2:M:26:TYR:HA	2:M:29:ALA:CB	2.45	0.46
2:C:722:ILE:HG12	2:C:757:GLY:O	2.15	0.46
2:C:798:GLY:C	2:C:799:ILE:HD13	2.36	0.46
1:B:7:LYS:HB3	1:B:7:LYS:HE3	1.70	0.46
3:D:462:GLN:O	3:D:466:LYS:HG3	2.14	0.46
7:Z:139:SER:OG	7:Z:146:ARG:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1051:GLU:OE2	3:D:751:LEU:HB2	2.16	0.46
3:D:154:THR:HG21	3:D:157:GLU:OE2	2.16	0.46
2:H:176:VAL:HG12	2:H:182:VAL:HG22	1.97	0.46
3:D:391:ALA:HB3	2:H:283:ILE:HG21	1.98	0.46
3:I:50:PHE:CE2	3:I:522:PRO:CD	2.98	0.46
3:I:123:LEU:HD21	3:I:151:GLN:HE22	1.76	0.46
2:M:100:LEU:O	2:M:108:ILE:CG2	2.56	0.46
2:M:328:LEU:HB2	2:M:488:ALA:CB	2.46	0.46
1:K:21:GLY:HA3	1:K:207:PRO:CB	2.46	0.46
3:D:956:ILE:HD11	3:D:1062:ARG:CB	2.46	0.46
2:H:6:PHE:CD1	2:H:909:ALA:HB2	2.50	0.46
2:H:281:LEU:HD12	2:H:306:THR:HA	1.97	0.46
1:B:76:VAL:HB	3:D:872:ARG:HH12	1.81	0.46
3:I:182:GLY:CA	3:I:441:ARG:HD3	2.45	0.46
4:J:32:ARG:HB2	4:J:32:ARG:NH1	2.30	0.46
2:C:1084:SER:HA	2:C:1087:VAL:HG12	1.96	0.46
2:H:336:VAL:O	2:H:339:LEU:HB2	2.15	0.46
3:I:639:LEU:CD1	3:I:640:HIS:N	2.79	0.46
3:N:997:THR:CG2	7:Z:61:ARG:NH1	2.79	0.46
1:A:82:LEU:O	1:A:85:LEU:HB3	2.15	0.46
2:H:1044:GLY:HA3	4:J:17:TYR:HE1	1.81	0.46
3:I:481:MET:HE2	3:I:493:ARG:HB2	1.97	0.46
2:C:953:VAL:O	2:C:955:PRO:HD3	2.16	0.46
3:N:481:MET:O	3:N:489:ARG:HB2	2.16	0.46
2:H:80:GLN:HA	2:H:90:TYR:CD2	2.51	0.46
3:D:835:SER:N	3:D:838:ARG:CD	2.79	0.46
2:M:165:LEU:HA	2:M:166:PRO:O	2.15	0.46
3:I:415:VAL:O	3:I:432:TYR:HA	2.16	0.46
2:H:500:ASN:ND2	2:H:500:ASN:H	2.14	0.46
3:I:1340:GLY:O	3:I:1344:VAL:HG23	2.15	0.46
1:K:102:LYS:HB3	1:K:139:ASN:ND2	2.31	0.46
2:C:449:ILE:CD1	3:D:1081:GLY:HA3	2.45	0.46
2:H:835:VAL:O	2:H:849:VAL:O	2.34	0.46
1:F:223:THR:C	1:F:225:PHE:H	2.19	0.46
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.45	0.46
1:B:94:LEU:HD13	1:B:120:VAL:HG22	1.97	0.46
3:N:827:ILE:N	3:N:827:ILE:HD12	2.27	0.46
3:N:1165:TYR:CE2	3:N:1214:PRO:HB3	2.51	0.46
3:N:755:ALA:O	3:N:758:GLU:HG2	2.15	0.46
3:N:1108:ARG:HA	3:N:1217:ILE:HG23	1.98	0.46
4:J:41:GLU:N	4:J:42:PRO:CD	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:325:ILE:N	2:H:325:ILE:HD12	2.31	0.46
2:M:966:LEU:HD21	2:M:986:PRO:HG2	1.97	0.46
1:B:190:THR:O	1:B:190:THR:HG22	2.15	0.46
3:D:1011:PHE:HB3	3:D:1021:TYR:CD1	2.50	0.46
3:D:832:ARG:NE	3:D:832:ARG:HA	2.31	0.46
4:O:37:ASN:ND2	4:O:93:TYR:CD2	2.83	0.46
2:H:722:ILE:HD13	2:H:722:ILE:C	2.36	0.46
2:M:294:GLU:HG2	2:M:295:ASP:N	2.31	0.46
3:D:1132:LEU:H	3:D:1132:LEU:HD12	1.81	0.46
2:H:798:GLY:C	2:H:799:ILE:HD13	2.36	0.46
7:X:128:ALA:O	7:X:138:LEU:CD1	2.63	0.46
1:F:180:GLN:HB3	1:F:180:GLN:HE21	1.55	0.46
2:M:424:GLY:O	2:M:425:PHE:C	2.53	0.46
2:H:84:ARG:HG2	2:H:131:GLY:O	2.15	0.46
1:G:154:GLU:OE2	3:I:840:LYS:HE2	2.16	0.46
2:M:39:ARG:HH12	2:M:70:GLU:HA	1.80	0.46
2:M:557:ARG:HG2	2:M:881:ASN:HD22	1.76	0.46
3:I:1103:HIS:CD2	3:I:1463:LYS:HB2	2.51	0.46
2:M:281:LEU:HD11	2:M:306:THR:HG22	1.98	0.46
2:M:333:ILE:HD11	2:M:467:ILE:HG13	1.98	0.46
3:I:1258:ARG:O	3:I:1262:LEU:HB2	2.15	0.46
3:D:1459:LEU:CD1	3:D:1468:LEU:HD12	2.45	0.46
2:M:859:PRO:HB2	2:M:867:VAL:CG2	2.46	0.46
3:D:720:LEU:H	3:D:720:LEU:HD12	1.81	0.46
2:M:274:ARG:CD	2:M:285:LEU:HD13	2.45	0.46
1:B:34:VAL:CG2	1:B:181:VAL:HG21	2.45	0.46
2:M:235:LEU:CD1	2:M:298:PHE:CE1	2.98	0.46
3:D:661:MET:HE2	3:D:673:ALA:HB1	1.96	0.46
2:C:863:ASP:OD2	2:C:863:ASP:C	2.54	0.46
3:N:166:GLN:CD	3:N:394:LEU:HD12	2.36	0.46
3:I:907:GLU:CD	3:I:909:ASN:HD22	2.19	0.46
2:C:957:LYS:O	2:C:962:GLN:NE2	2.25	0.46
2:M:953:VAL:O	2:M:955:PRO:HD3	2.15	0.46
2:M:1102:LEU:HA	2:M:1107:ASN:O	2.16	0.46
3:I:483:HIS:CB	3:I:484:PRO:HD3	2.40	0.46
3:N:1042:ARG:HH11	3:N:1042:ARG:HB2	1.81	0.46
3:N:956:ILE:N	3:N:956:ILE:HD12	2.31	0.46
3:I:1369:GLU:HA	3:I:1372:VAL:HG12	1.97	0.46
1:A:102:LYS:HB3	1:A:139:ASN:ND2	2.31	0.46
1:F:102:LYS:HB3	1:F:139:ASN:ND2	2.31	0.46
3:D:921:ARG:C	3:D:922:LEU:HD23	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:HA	2:C:444:PRO:HD3	1.74	0.46
2:C:64:LEU:HB2	2:C:359:MET:HE2	1.98	0.46
1:A:223:THR:C	1:A:225:PHE:H	2.19	0.46
3:N:758:GLU:HA	4:O:20:THR:HG21	1.97	0.46
2:C:625:LEU:O	2:C:627:ARG:N	2.49	0.46
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.50	0.46
7:Y:105:VAL:O	7:Y:121:ASP:N	2.49	0.46
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.50	0.46
2:H:611:ILE:HG13	2:H:625:LEU:HD21	1.98	0.46
3:I:832:ARG:NE	3:I:832:ARG:HA	2.31	0.46
2:H:728:HIS:O	2:H:729:LEU:CB	2.63	0.46
2:M:749:VAL:HB	2:M:792:VAL:HG21	1.97	0.46
3:D:1395:LEU:C	3:D:1395:LEU:HD23	2.35	0.46
3:D:184:GLU:OE1	3:D:201:GLY:O	2.34	0.46
3:N:12:LEU:HD23	3:N:12:LEU:HA	1.62	0.46
3:N:50:PHE:HB3	3:N:522:PRO:CD	2.46	0.46
3:D:171:LEU:HD12	3:D:393:ILE:HD13	1.98	0.46
3:I:520:LEU:HD12	3:I:521:PRO:CD	2.44	0.46
2:C:140:ILE:HG22	2:C:333:ILE:HD11	1.97	0.46
2:C:333:ILE:HG12	2:C:410:ILE:HD13	1.98	0.46
2:C:140:ILE:HD11	2:C:412:ALA:CB	2.46	0.46
3:I:458:ALA:HB2	3:I:575:GLN:NE2	2.30	0.46
3:N:1468:LEU:HD22	3:N:1470:ARG:HD3	1.98	0.46
2:M:338:GLU:HA	2:M:341:THR:HG22	1.97	0.46
3:N:180:LYS:HZ2	3:N:387:LEU:N	2.14	0.46
2:H:273:GLY:HA2	2:H:276:LYS:HD2	1.97	0.46
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.42	0.46
2:H:572:ILE:HG23	2:H:703:ILE:CD1	2.39	0.46
2:C:588:VAL:HG11	2:C:661:SER:CB	2.45	0.46
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.14	0.46
3:N:29:PRO:HD3	3:N:548:ILE:HG22	1.98	0.46
3:I:408:GLU:CG	3:I:409:VAL:N	2.58	0.46
2:H:368:THR:HB	2:H:369:PRO:HD2	1.97	0.46
2:H:6:PHE:HZ	2:H:917:LEU:HD11	1.81	0.46
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.45	0.46
2:M:546:LEU:HD13	2:M:565:GLN:OE1	2.14	0.46
3:N:1087:ARG:HG2	3:N:1234:THR:O	2.16	0.46
2:M:863:ASP:C	2:M:863:ASP:OD2	2.54	0.46
3:D:1202:GLN:HB2	3:D:1217:ILE:HD11	1.97	0.46
2:M:625:LEU:O	2:M:627:ARG:N	2.49	0.46
3:I:551:ASN:O	3:I:555:LYS:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:562:ALA:HB1	3:I:567:ILE:HD11	1.98	0.46
2:H:1065:ALA:CB	2:H:1077:PRO:HG2	2.36	0.46
3:D:1286:THR:O	3:D:1287:GLU:CB	2.64	0.46
3:N:1412:LYS:HE2	3:N:1414:PRO:HG3	1.96	0.46
1:B:156:HIS:CD2	1:B:156:HIS:H	2.34	0.46
3:D:799:LYS:HD3	3:D:826:PRO:CG	2.46	0.46
3:D:984:THR:CG2	3:D:987:GLU:HG3	2.44	0.46
3:N:465:LEU:HD22	3:N:510:GLU:CA	2.46	0.46
3:D:115:LEU:O	3:D:115:LEU:HD23	2.14	0.46
3:I:1021:TYR:CE2	3:I:1025:GLN:HG2	2.51	0.46
3:I:996:TRP:CG	3:I:1056:PRO:HG2	2.51	0.46
4:J:61:VAL:HG23	4:J:62:THR:N	2.31	0.46
3:I:1148:VAL:HG13	3:I:1163:GLY:O	2.15	0.46
3:I:1155:VAL:CG1	3:I:1177:ALA:HB1	2.46	0.46
1:L:7:LYS:HB3	1:L:7:LYS:HE3	1.70	0.46
2:C:928:LYS:NZ	2:C:932:GLU:HG3	2.30	0.46
3:D:170:PRO:HA	3:D:392:SER:HB3	1.98	0.46
3:D:179:VAL:HG13	3:D:183:GLU:CG	2.46	0.46
2:H:184:MET:SD	2:H:191:PHE:CE1	3.09	0.46
3:I:90:MET:HG2	3:I:521:PRO:HG3	1.98	0.46
2:C:258:TYR:CE1	2:C:264:PRO:HG3	2.51	0.46
2:C:333:ILE:CG1	2:C:410:ILE:HD13	2.46	0.46
3:I:123:LEU:CD1	3:I:152:LEU:HD21	2.44	0.46
3:I:141:ILE:HG13	3:I:448:GLU:CD	2.37	0.46
3:D:116:LEU:CD2	3:D:118:LEU:CG	2.72	0.46
3:N:178:LEU:CD1	3:N:179:VAL:HG23	2.44	0.46
3:N:180:LYS:NZ	3:N:387:LEU:N	2.64	0.46
2:H:144:PRO:O	2:H:276:LYS:HD3	2.16	0.46
2:H:332:ARG:NE	2:H:464:LEU:CD1	2.78	0.46
3:I:100:ALA:CB	3:I:128:TYR:OH	2.64	0.46
1:K:206:THR:HG23	1:K:208:LEU:H	1.79	0.46
3:N:631:ILE:CD1	3:N:743:ASP:O	2.53	0.46
2:H:1046:ALA:CB	3:I:1476:THR:HB	2.46	0.46
2:C:859:PRO:HB2	2:C:867:VAL:CG2	2.46	0.46
1:B:56:VAL:CG1	1:B:57:TYR:N	2.78	0.46
1:K:156:HIS:CD2	1:K:158:ILE:CD1	2.99	0.46
2:M:31:GLN:NE2	2:M:34:VAL:HG22	2.31	0.46
3:N:925:GLU:HG2	3:N:926:LYS:N	2.31	0.46
3:D:465:LEU:HD21	3:D:509:PRO:CB	2.44	0.46
3:N:1007:VAL:CG1	3:N:1039:CYS:HB2	2.37	0.46
7:Z:115:THR:CB	7:Z:116:PRO:CD	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:835:SER:C	3:N:837:GLY:N	2.69	0.46
2:M:374:ASN:O	2:M:374:ASN:ND2	2.49	0.46
7:X:109:GLU:HG3	7:X:118:LYS:HD3	1.96	0.46
3:I:564:GLU:C	3:I:566:ILE:H	2.18	0.46
1:G:51:THR:HG22	1:G:145:ASP:O	2.16	0.46
4:E:61:VAL:CG2	4:E:62:THR:N	2.79	0.46
2:M:906:PHE:CD1	3:N:1067:VAL:HG13	2.51	0.46
2:H:1078:GLU:HA	2:H:1079:PRO:HD3	1.79	0.46
2:H:251:ASP:O	2:H:252:LYS:C	2.54	0.46
3:I:47:GLU:O	3:I:51:GLY:CA	2.64	0.46
3:D:1397:LYS:NZ	3:D:1432:LYS:NZ	2.63	0.46
3:I:593:ASN:O	3:I:594:PRO:C	2.54	0.46
2:C:187:ASN:O	2:C:188:LYS:CB	2.64	0.46
4:J:3:GLU:OE1	4:J:4:PRO:CD	2.64	0.46
1:K:165:ILE:HG12	1:K:165:ILE:O	2.16	0.46
2:M:791:ARG:HG2	2:M:791:ARG:HH11	1.81	0.46
3:D:388:HIS:C	3:D:390:PRO:HD3	2.36	0.45
3:I:525:ARG:HG3	3:I:540:LEU:HD13	1.98	0.45
2:C:336:VAL:O	2:C:339:LEU:HB2	2.16	0.45
2:C:139:GLN:NE2	2:C:415:PRO:CD	2.76	0.45
2:C:1098:ASP:O	3:D:10:ILE:HA	2.16	0.45
3:D:953:ASP:OD1	3:D:1019:PRO:HG2	2.17	0.45
3:I:608:SER:HB3	3:I:1443:THR:OG1	2.16	0.45
1:L:80:LEU:HD12	1:L:83:LYS:HE3	1.98	0.45
3:D:1340:GLY:O	3:D:1344:VAL:HG23	2.15	0.45
3:D:814:ALA:O	3:D:818:ARG:HG3	2.15	0.45
3:I:204:LEU:HB3	3:I:394:LEU:CG	2.26	0.45
3:D:129:PHE:O	3:D:130:SER:OG	2.30	0.45
7:Z:89:VAL:CG1	7:Z:90:GLU:N	2.78	0.45
3:I:813:LEU:CD1	3:I:814:ALA:N	2.73	0.45
3:I:481:MET:O	3:I:489:ARG:HB2	2.17	0.45
1:B:57:TYR:CE1	1:B:163:ASN:OD1	2.68	0.45
1:B:152:PRO:HA	1:B:168:ASP:OD1	2.16	0.45
2:H:854:PRO:HB2	2:H:856:GLU:CD	2.36	0.45
1:F:156:HIS:CD2	1:F:158:ILE:CD1	2.99	0.45
3:D:996:TRP:O	3:D:999:THR:HG22	2.16	0.45
3:N:511:TRP:C	3:N:513:ILE:H	2.20	0.45
2:C:671:ASN:OD1	2:C:993:PHE:HD2	1.99	0.45
3:I:791:TYR:CD1	3:I:1022:VAL:HG11	2.51	0.45
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.96	0.45
3:I:1221:VAL:O	3:I:1222:GLY:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1472:ILE:HD13	3:D:1474:ALA:O	2.15	0.45
3:I:921:ARG:C	3:I:922:LEU:HD23	2.36	0.45
3:D:589:ALA:HA	3:D:590:PRO:HD3	1.74	0.45
3:I:1231:GLU:CB	3:I:1232:PRO:HD3	2.45	0.45
4:O:70:THR:OG1	4:O:72:ARG:CG	2.64	0.45
7:Y:84:GLY:O	7:Y:87:SER:OG	2.28	0.45
1:A:83:LYS:NZ	2:C:698:ASP:OD2	2.49	0.45
1:B:227:ASN:HD22	1:B:227:ASN:N	2.14	0.45
3:I:667:ALA:HA	3:I:668:PRO:HD3	1.72	0.45
1:L:149:GLY:O	1:L:171:PHE:HB2	2.17	0.45
3:D:169:TYR:HE2	3:D:197:SER:HA	1.77	0.45
3:D:348:GLN:HB2	3:D:351:MET:CE	2.46	0.45
2:H:221:LEU:HD12	2:H:222:MET:N	2.31	0.45
3:I:786:ILE:O	3:I:787:LEU:C	2.55	0.45
2:C:207:LEU:CD2	2:C:221:LEU:CD2	2.90	0.45
2:C:267:TYR:O	2:C:267:TYR:HD2	2.00	0.45
3:I:141:ILE:CD1	3:I:448:GLU:OE2	2.64	0.45
2:M:36:PRO:C	2:M:39:ARG:HB2	2.37	0.45
3:D:457:GLY:O	3:D:458:ALA:C	2.54	0.45
3:D:44:LEU:O	3:D:50:PHE:HE1	1.95	0.45
2:M:162:ILE:CG2	2:M:172:ILE:HD13	2.46	0.45
3:N:189:GLN:HB3	3:N:189:GLN:HE21	1.60	0.45
2:H:189:ARG:HA	2:H:189:ARG:HD3	1.69	0.45
3:N:720:LEU:H	3:N:720:LEU:HD12	1.81	0.45
3:I:111:LYS:HE3	3:I:1449:GLU:HA	1.98	0.45
7:X:32:ILE:HG22	7:X:33:LEU:N	2.31	0.45
2:C:95:TYR:HB3	2:C:114:PHE:HA	1.97	0.45
1:B:73:GLU:HG3	1:B:130:ALA:CB	2.46	0.45
2:H:170:PRO:HB2	2:H:172:ILE:HD11	1.97	0.45
3:I:166:GLN:HE21	3:I:396:VAL:HG12	1.78	0.45
3:I:204:LEU:HD11	3:I:441:ARG:NH2	2.23	0.45
1:F:21:GLY:HA3	1:F:207:PRO:CB	2.46	0.45
3:D:1223:ILE:HD11	3:D:1462:LEU:CD1	2.46	0.45
3:D:617:ASN:HB2	3:D:1467:ILE:HG23	1.98	0.45
2:C:325:ILE:N	2:C:325:ILE:CD1	2.66	0.45
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.40	0.45
1:G:38:ASN:O	1:G:41:ARG:HB3	2.15	0.45
3:D:1109:GLU:CD	3:D:1201:CYS:HB2	2.37	0.45
3:I:433:GLY:CA	3:I:447:VAL:O	2.65	0.45
2:H:863:ASP:C	2:H:863:ASP:OD2	2.54	0.45
3:N:481:MET:HE2	3:N:493:ARG:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:854:PRO:HB2	2:C:856:GLU:CD	2.36	0.45
3:D:102:ILE:HD13	3:D:102:ILE:C	2.35	0.45
1:A:19:GLU:CD	1:A:19:GLU:N	2.68	0.45
3:D:841:TYR:HB2	3:D:864:VAL:HG11	1.96	0.45
7:Y:89:VAL:HG12	7:Y:91:LEU:HD23	1.97	0.45
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	2.29	0.45
3:N:1365:ASP:O	3:N:1366:LYS:C	2.54	0.45
2:M:946:ARG:CB	2:M:946:ARG:HH11	2.25	0.45
3:N:907:GLU:CD	3:N:909:ASN:HD22	2.19	0.45
2:C:367:LEU:HD13	2:C:372:LEU:HD11	1.98	0.45
3:D:787:LEU:HD12	3:D:787:LEU:C	2.36	0.45
3:N:99:ALA:O	3:N:514:LEU:N	2.48	0.45
3:N:660:LYS:CA	3:N:660:LYS:NZ	2.79	0.45
2:M:361:MET:HE3	2:M:361:MET:O	2.15	0.45
3:D:994:GLN:OE1	3:D:994:GLN:HA	2.16	0.45
1:G:143:ARG:HD3	1:G:158:ILE:HG21	1.98	0.45
2:C:137:VAL:O	2:C:391:LEU:HD21	2.16	0.45
2:H:124:ASP:CG	2:H:592:LEU:HD12	2.36	0.45
2:M:144:PRO:O	2:M:276:LYS:CE	2.65	0.45
2:M:267:TYR:CE1	2:M:273:GLY:HA3	2.52	0.45
2:M:1086:ARG:CD	3:N:88:TYR:CE2	2.96	0.45
2:C:175:GLU:N	2:C:183:SER:O	2.39	0.45
2:H:272:ALA:O	2:H:276:LYS:NZ	2.33	0.45
3:N:116:LEU:O	3:N:117:ASP:HB3	2.16	0.45
3:D:1262:LEU:HD12	3:D:1262:LEU:HA	1.84	0.45
2:M:897:LEU:HD21	2:M:921:ALA:N	2.32	0.45
3:I:762:GLN:NE2	4:J:20:THR:CG2	2.54	0.45
4:J:32:ARG:HB2	4:J:32:ARG:HH11	1.82	0.45
2:C:363:SER:OG	2:C:366:SER:CB	2.64	0.45
1:A:9:PRO:CB	1:A:25:LEU:HD11	2.46	0.45
1:L:211:LEU:O	1:L:214:ALA:HB3	2.17	0.45
4:O:57:ASP:N	4:O:58:PRO:HD3	2.30	0.45
2:C:285:LEU:HG	2:C:286:SER:N	2.30	0.45
2:H:9:ILE:HD13	2:H:536:PRO:CD	2.47	0.45
2:C:710:ILE:HB	2:C:790:LEU:HB2	1.98	0.45
3:N:1221:VAL:O	3:N:1222:GLY:C	2.53	0.45
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.98	0.45
2:C:66:LEU:HD22	2:C:372:LEU:HD22	1.97	0.45
2:C:946:ARG:HH11	2:C:946:ARG:CB	2.25	0.45
3:N:1145:TYR:CG	3:N:1146:GLY:N	2.85	0.45
2:H:554:ASP:HB2	2:H:880:MET:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y:128:ALA:HB2	7:Y:140:LEU:HD21	1.97	0.45
2:M:1096:ALA:HB1	3:N:12:LEU:CD2	2.46	0.45
3:I:994:GLN:OE1	3:I:994:GLN:HA	2.17	0.45
2:M:756:VAL:HB	2:M:790:LEU:HB3	1.98	0.45
3:D:171:LEU:HB2	3:D:392:SER:HA	1.98	0.45
2:C:334:ARG:O	2:C:339:LEU:HD11	2.16	0.45
2:C:22:GLN:HE21	2:C:336:VAL:CG2	2.29	0.45
2:H:1019:GLN:OE1	3:I:621:LYS:HD3	2.13	0.45
2:M:48:PHE:HA	2:M:348:LEU:HD21	1.98	0.45
3:N:787:LEU:HD12	3:N:787:LEU:C	2.36	0.45
3:N:162:ARG:C	3:N:452:ILE:HG21	2.37	0.45
3:N:179:VAL:HG13	3:N:183:GLU:CD	2.36	0.45
2:M:571:LEU:CD1	2:M:701:THR:N	2.78	0.45
2:H:332:ARG:NE	2:H:464:LEU:HG	2.32	0.45
2:M:1095:LEU:HA	3:N:101:HIS:HE2	1.82	0.45
3:N:1209:LEU:CD2	3:N:1211:MET:H	2.24	0.45
3:D:1208:ASP:O	3:D:1215:VAL:HG22	2.16	0.45
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.17	0.45
3:I:1045:MET:O	3:I:1053:PHE:HB2	2.17	0.45
2:H:281:LEU:CD1	2:H:306:THR:HA	2.46	0.45
3:N:1031:ASN:CG	3:N:1032:PRO:HD2	2.37	0.45
3:D:1113:GLY:N	3:D:1195:GLN:OE1	2.50	0.45
2:H:863:ASP:O	2:H:865:THR:N	2.48	0.45
2:M:854:PRO:HB2	2:M:856:GLU:CD	2.36	0.45
1:B:56:VAL:HG21	1:B:82:LEU:HD13	1.97	0.45
2:M:585:GLU:CD	2:M:585:GLU:C	2.75	0.45
3:N:1092:GLY:O	3:N:1095:THR:OG1	2.24	0.45
3:N:1477:GLY:O	3:N:1478:SER:C	2.54	0.45
2:H:17:PRO:HD2	2:H:20:GLU:OE2	2.17	0.45
2:M:1047:HIS:O	2:M:1051:GLU:HB2	2.17	0.45
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.17	0.45
3:N:1348:LEU:HD23	3:N:1372:VAL:HG23	1.99	0.45
2:C:540:PHE:HZ	3:D:1070:TYR:HD1	1.64	0.45
2:C:12:VAL:CB	2:C:472:ARG:HH11	2.30	0.45
2:C:64:LEU:HD13	2:C:359:MET:HG2	1.97	0.45
2:H:1068:GLU:O	2:H:1071:ILE:HB	2.17	0.45
2:M:1068:GLU:O	2:M:1071:ILE:HB	2.17	0.45
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.26	0.45
3:N:400:VAL:O	3:N:400:VAL:HG13	2.16	0.45
4:J:53:GLY:C	4:J:55:PHE:H	2.20	0.45
3:I:956:ILE:N	3:I:956:ILE:HD12	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.97	0.45
3:D:759:ALA:O	3:D:763:MET:HB3	2.17	0.45
1:F:72:LYS:HE2	2:H:641:PRO:O	2.16	0.45
3:N:832:ARG:HA	3:N:832:ARG:NE	2.31	0.45
1:K:65:PHE:HE1	2:M:799:ILE:HG13	1.81	0.45
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.98	0.45
1:L:227:ASN:HD22	1:L:227:ASN:N	2.14	0.45
7:Y:18:GLN:NE2	7:Y:65:LEU:HD21	2.32	0.45
2:C:462:ASP:HB3	2:C:468:ARG:HD2	1.99	0.45
3:D:348:GLN:HB2	3:D:351:MET:HE1	1.99	0.45
2:H:307:LEU:HD11	2:H:311:PHE:CE2	2.52	0.45
2:C:204:GLN:NE2	2:C:228:ALA:CB	2.79	0.45
3:I:116:LEU:O	3:I:117:ASP:HB3	2.16	0.45
2:M:54:ILE:O	2:M:65:VAL:HA	2.17	0.45
2:M:39:ARG:NH1	2:M:70:GLU:HA	2.31	0.45
2:M:1093:GLN:CB	3:N:21:TRP:CZ3	2.72	0.45
3:N:1045:MET:HG3	3:N:1073:SER:OG	2.17	0.45
3:N:158:TYR:HE1	3:N:452:ILE:HD11	1.81	0.45
3:N:157:GLU:O	3:N:161:LEU:N	2.50	0.45
2:M:200:LEU:HB3	2:M:300:ASP:OD1	2.15	0.45
3:I:465:LEU:HD22	3:I:510:GLU:CA	2.46	0.45
3:D:1426:LYS:HA	3:D:1429:LEU:HB2	1.99	0.45
3:D:1428:ALA:O	3:D:1429:LEU:C	2.55	0.45
3:N:1256:LEU:O	3:N:1260:ILE:N	2.46	0.45
2:H:577:PRO:HG3	2:H:993:PHE:CZ	2.51	0.45
2:C:548:PRO:HG2	2:C:842:ARG:NH2	2.32	0.45
3:I:191:LEU:HD21	3:I:203:ALA:CB	2.47	0.45
1:A:10:VAL:O	1:A:12:THR:HG23	2.16	0.45
3:N:407:VAL:HG21	3:N:437:VAL:HG11	1.98	0.45
2:C:1008:ARG:HH12	2:C:1011:GLY:N	2.15	0.45
2:M:282:GLY:C	2:M:283:ILE:CG1	2.85	0.45
3:I:1273:VAL:HG21	3:I:1305:LEU:HD21	1.97	0.45
1:K:61:VAL:HG13	1:K:66:SER:HB3	1.99	0.45
1:A:42:ARG:HH11	1:B:34:VAL:HG12	1.80	0.45
2:H:90:TYR:O	2:H:90:TYR:HD1	2.00	0.45
2:C:642:ARG:CD	2:C:642:ARG:O	2.56	0.45
7:X:123:SER:O	7:X:127:LYS:N	2.47	0.45
3:N:642:CYS:SG	3:N:642:CYS:O	2.74	0.45
1:B:52:ALA:HB2	1:B:170:VAL:O	2.16	0.45
2:C:1046:ALA:HB3	2:C:1047:HIS:HD2	1.80	0.45
2:M:681:GLY:C	3:N:635:PRO:CG	2.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:907:GLU:CD	3:D:909:ASN:HD22	2.19	0.45
3:N:827:ILE:H	3:N:827:ILE:CD1	2.28	0.45
3:I:759:ALA:O	3:I:763:MET:HB3	2.17	0.45
3:I:1434:TRP:CG	3:I:1435:LEU:N	2.84	0.45
3:I:660:LYS:NZ	3:I:660:LYS:CA	2.79	0.45
7:X:21:ARG:O	7:X:25:ARG:HG3	2.16	0.45
3:N:1089:ALA:C	3:N:1091:SER:H	2.18	0.45
3:N:1397:LYS:NZ	3:N:1432:LYS:NZ	2.65	0.45
3:I:1089:ALA:C	3:I:1091:SER:H	2.19	0.45
3:N:149:LYS:CE	3:N:149:LYS:H	2.30	0.45
3:N:464:LEU:HD23	3:N:464:LEU:HA	1.73	0.45
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.16	0.45
3:D:402:PRO:HA	3:D:443:VAL:HG23	1.98	0.45
2:C:224:GLU:HB3	2:C:228:ALA:CA	2.42	0.45
3:I:127:LEU:HD22	3:I:134:VAL:CG1	2.45	0.45
3:N:148:GLU:CG	3:N:151:GLN:CB	2.94	0.45
3:N:720:LEU:N	3:N:720:LEU:HD12	2.32	0.45
2:M:399:ASN:OD1	2:M:402:SER:CB	2.60	0.45
1:L:65:PHE:CE1	3:N:813:LEU:HD22	2.52	0.45
7:Z:105:VAL:O	7:Z:121:ASP:N	2.49	0.45
3:I:465:LEU:HD21	3:I:509:PRO:CB	2.44	0.45
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.22	0.45
3:D:162:ARG:HD2	3:D:162:ARG:HA	1.45	0.45
3:N:1257:PRO:CA	3:N:1260:ILE:CD1	2.87	0.45
2:C:81:ASP:HA	2:C:84:ARG:NH1	2.31	0.45
7:Z:89:VAL:HG13	7:Z:151:VAL:HG13	1.99	0.45
3:D:13:ALA:HB1	3:D:18:ILE:CD1	2.46	0.45
3:N:355:VAL:CG1	3:N:356:PRO:HD2	2.47	0.45
1:A:174:VAL:HG13	1:A:200:TRP:O	2.17	0.45
1:L:142:VAL:HG23	1:L:142:VAL:O	2.17	0.45
3:N:486:ARG:HA	3:N:489:ARG:CG	2.35	0.45
3:D:970:LYS:CE	7:X:113:LEU:HD23	2.46	0.45
3:D:771:SER:HB2	3:D:778:LEU:CD1	2.37	0.45
3:D:96:ALA:CB	3:D:554:LEU:HD23	2.37	0.45
2:H:9:ILE:HG12	2:H:907:ASP:CG	2.36	0.45
7:Y:111:ASN:HD21	7:Y:113:LEU:HD12	1.82	0.45
3:N:1491:THR:HA	3:N:1494:ALA:HB3	1.99	0.45
3:N:1369:GLU:HA	3:N:1372:VAL:HG12	1.96	0.45
3:I:1347:TYR:HD2	3:I:1348:LEU:HD12	1.81	0.45
3:I:1365:ASP:O	3:I:1366:LYS:C	2.54	0.45
4:O:45:ARG:HH21	4:O:63:TRP:HH2	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:557:LEU:CD2	3:I:566:ILE:HG21	2.47	0.45
3:I:546:ARG:HG2	3:I:546:ARG:NH1	2.32	0.45
3:D:972:LEU:C	3:D:976:GLN:HE21	2.20	0.45
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.51	0.45
3:I:755:ALA:O	3:I:758:GLU:HG2	2.15	0.45
1:B:149:GLY:O	1:B:171:PHE:HB2	2.17	0.45
3:N:50:PHE:CB	3:N:522:PRO:CG	2.87	0.45
3:D:179:VAL:HG13	3:D:183:GLU:CB	2.44	0.45
3:D:210:ARG:CZ	3:D:389:GLU:OE2	2.65	0.45
2:H:987:ILE:HD12	3:I:948:THR:CG2	2.46	0.45
2:M:100:LEU:CD2	2:M:372:LEU:HD21	2.47	0.45
2:M:69:LEU:HB2	2:M:97:ARG:O	2.16	0.45
3:D:1434:TRP:HZ3	3:D:1457:ASP:N	2.14	0.45
3:I:87:ARG:HD3	3:I:87:ARG:HA	1.61	0.45
3:N:141:ILE:HG23	3:N:162:ARG:NH1	2.32	0.45
3:I:1258:ARG:CZ	3:I:1262:LEU:HD13	2.47	0.45
2:M:697:ARG:HD2	2:M:699:PHE:CE1	2.50	0.45
2:C:699:PHE:HB3	2:C:700:TYR:HD1	1.81	0.45
1:K:11:PHE:HB2	1:K:25:LEU:CD1	2.46	0.45
2:H:110:GLU:O	2:H:111:ASP:CG	2.55	0.45
3:D:451:ASP:C	3:D:452:ILE:HG23	2.37	0.45
3:I:1045:MET:HG3	3:I:1073:SER:OG	2.17	0.45
2:H:897:LEU:HD21	2:H:921:ALA:N	2.32	0.45
1:B:76:VAL:HB	3:D:872:ARG:NH1	2.32	0.45
2:H:146:VAL:HG22	2:H:162:ILE:HG12	1.99	0.45
3:D:1107:VAL:HG13	3:D:1200:VAL:O	2.17	0.45
1:F:124:ASN:HD21	1:F:127:LEU:CD2	2.26	0.45
3:I:875:THR:CG2	3:I:879:ARG:CB	2.94	0.45
3:I:687:VAL:O	3:I:690:ALA:HB3	2.16	0.45
3:D:835:SER:N	3:D:838:ARG:HD3	2.32	0.45
2:C:273:GLY:HA2	2:C:276:LYS:CD	2.47	0.45
2:C:950:LEU:CD1	2:C:950:LEU:O	2.65	0.45
2:C:516:ARG:HD2	3:D:1068:LEU:HD22	1.99	0.45
2:H:691:SER:O	2:H:692:GLU:C	2.55	0.45
2:H:403:SER:O	2:H:407:LYS:HG3	2.17	0.45
3:D:115:LEU:HD12	3:D:502:PHE:CE1	2.51	0.45
3:D:465:LEU:HD22	3:D:510:GLU:CA	2.46	0.45
2:M:12:VAL:HG21	2:M:472:ARG:NH1	2.32	0.45
2:M:1019:GLN:HG3	3:N:621:LYS:HD2	1.99	0.45
3:I:835:SER:N	3:I:838:ARG:HD3	2.32	0.45
3:N:835:SER:N	3:N:838:ARG:CD	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:875:THR:CG2	3:D:879:ARG:CB	2.95	0.45
2:H:595:LEU:HG	2:H:655:LEU:HD12	1.98	0.45
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.43	0.45
2:M:154:ARG:HH12	2:M:177:GLU:HA	1.82	0.45
2:C:625:LEU:O	2:C:626:ARG:C	2.56	0.45
3:N:1275:SER:HB2	3:N:1294:VAL:HG21	1.97	0.45
2:M:730:SER:O	2:M:734:LEU:HD22	2.16	0.45
7:Y:31:LYS:HB3	7:Y:31:LYS:HE2	1.72	0.45
7:Z:5:VAL:CG2	7:Z:71:ARG:NH1	2.80	0.45
1:F:26:GLU:HB3	1:F:194:LYS:HG3	1.98	0.45
1:K:26:GLU:HB3	1:K:194:LYS:HG3	1.99	0.45
3:D:1118:ILE:HG13	3:D:1192:LEU:HD12	1.99	0.45
7:Z:76:GLU:O	7:Z:76:GLU:CD	2.55	0.45
1:B:29:GLU:HB2	1:B:32:PHE:CD1	2.51	0.45
2:M:969:GLN:HB3	2:M:969:GLN:HE21	1.47	0.45
3:N:994:GLN:HA	3:N:994:GLN:OE1	2.16	0.45
1:A:70:GLY:N	2:C:607:ASP:OD1	2.46	0.45
2:H:631:SER:CB	2:H:637:LEU:HD11	2.47	0.45
2:H:269:LEU:C	2:H:269:LEU:HD23	2.38	0.45
3:I:947:ILE:C	3:I:947:ILE:HD12	2.36	0.45
2:H:873:PRO:HB3	3:I:949:ILE:HD12	1.98	0.45
2:C:191:PHE:CD2	2:C:195:LEU:HD23	2.47	0.45
2:C:267:TYR:OH	2:C:289:THR:CG2	2.64	0.45
3:I:135:LEU:HD22	3:I:149:LYS:C	2.36	0.45
3:D:783:ARG:CZ	7:X:41:ASP:CB	2.95	0.45
2:M:487:THR:CG2	2:M:489:THR:OG1	2.65	0.45
3:N:1045:MET:O	3:N:1053:PHE:HB2	2.17	0.45
2:C:878:SER:HB3	3:D:1029:ARG:HD3	1.99	0.45
2:H:342:ASP:HA	2:H:345:ARG:CD	2.42	0.45
1:L:83:LYS:HE2	1:L:167:VAL:CG1	2.47	0.45
3:D:1486:VAL:HG12	4:E:22:VAL:HG12	1.97	0.45
3:D:720:LEU:N	3:D:720:LEU:HD12	2.32	0.45
2:M:544:THR:C	2:M:546:LEU:H	2.20	0.45
3:D:618:LEU:HD21	3:D:1463:LYS:CE	2.45	0.45
2:H:859:PRO:HB2	2:H:867:VAL:CG2	2.46	0.45
3:N:639:LEU:CD1	3:N:640:HIS:N	2.79	0.45
1:G:45:LEU:HD11	1:G:177:VAL:HG22	1.99	0.45
1:A:61:VAL:HG13	1:A:66:SER:HB3	1.99	0.45
3:D:639:LEU:CD1	3:D:640:HIS:N	2.79	0.45
2:C:148:PHE:CE2	2:C:160:ALA:HB1	2.52	0.45
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1056:LYS:HD3	3:N:623:VAL:HG11	1.97	0.45
3:N:1288:GLU:C	3:N:1307:LYS:HG2	2.36	0.45
4:O:68:LEU:HA	4:O:73:LEU:CD1	2.47	0.45
2:M:443:THR:HA	2:M:444:PRO:HD3	1.74	0.45
2:C:449:ILE:C	2:C:451:LEU:H	2.20	0.45
7:X:22:GLU:OE2	7:X:25:ARG:NH1	2.47	0.45
3:I:972:LEU:C	3:I:976:GLN:HE21	2.20	0.45
2:C:631:SER:CB	2:C:637:LEU:HD11	2.47	0.45
1:K:178:ALA:HB2	2:M:864:GLY:H	1.81	0.45
2:C:931:GLY:C	2:C:933:GLY:N	2.70	0.45
1:G:95:GLN:HA	1:G:146:ARG:HD2	1.97	0.45
2:M:592:LEU:HD23	2:M:592:LEU:N	2.32	0.45
3:D:204:LEU:HD13	3:D:441:ARG:HH12	1.81	0.45
2:C:26:TYR:HD1	2:C:26:TYR:HA	1.66	0.45
2:C:26:TYR:CE1	2:C:340:MET:HE2	2.45	0.45
3:D:1045:MET:O	3:D:1053:PHE:HB2	2.17	0.45
3:D:650:LEU:CD1	3:D:688:TRP:HZ3	2.26	0.45
3:I:720:LEU:HD12	3:I:720:LEU:H	1.81	0.45
3:I:720:LEU:N	3:I:720:LEU:HD12	2.32	0.45
2:M:39:ARG:HD2	2:M:45:GLN:CG	2.47	0.45
2:M:557:ARG:HD3	2:M:879:ARG:HB3	1.99	0.45
3:D:116:LEU:O	3:D:116:LEU:HD23	2.17	0.45
3:D:28:LYS:HG3	3:D:29:PRO:CD	2.47	0.45
2:H:544:THR:C	2:H:546:LEU:H	2.20	0.45
2:H:577:PRO:C	2:H:579:VAL:N	2.71	0.45
3:I:925:GLU:HG2	3:I:926:LYS:N	2.31	0.45
2:H:304:LEU:H	2:H:304:LEU:CD2	2.25	0.45
1:K:174:VAL:HG13	1:K:200:TRP:O	2.17	0.45
3:I:1256:LEU:C	3:I:1260:ILE:HG13	2.35	0.45
3:I:1261:GLU:O	3:I:1264:GLU:O	2.34	0.45
1:G:211:LEU:O	1:G:214:ALA:HB3	2.17	0.45
1:A:18:ARG:O	1:A:201:THR:OG1	2.35	0.45
3:D:841:TYR:O	3:D:864:VAL:HG12	2.17	0.45
3:D:880:ILE:CG2	3:D:881:LEU:N	2.79	0.45
2:C:496:ILE:O	2:C:515:ALA:HB1	2.17	0.45
3:D:1042:ARG:HH11	3:D:1042:ARG:HB2	1.81	0.45
2:H:11:GLU:CD	2:H:537:LYS:HZ2	2.19	0.45
2:H:137:VAL:HG23	2:H:391:LEU:HD21	1.98	0.45
2:H:754:ILE:CD1	2:H:754:ILE:N	2.71	0.45
3:I:1144:LEU:HA	3:I:1147:ARG:HG3	1.99	0.45
3:I:557:LEU:HD22	3:I:566:ILE:CG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:151:ASP:CG	2:C:152:PRO:CD	2.84	0.45
2:H:1016:ILE:HG13	2:H:1017:THR:N	2.32	0.45
3:I:1084:THR:HA	3:I:1087:ARG:CD	2.47	0.45
3:N:963:TYR:HD2	3:N:1002:LYS:HD3	1.81	0.45
3:I:1491:THR:HA	3:I:1494:ALA:HB3	1.97	0.45
1:K:65:PHE:HE1	2:M:799:ILE:CG1	2.30	0.45
3:I:1155:VAL:HG12	3:I:1177:ALA:HB1	1.99	0.45
2:H:1007:ALA:O	2:H:1027:PHE:CE2	2.70	0.45
1:F:165:ILE:HG12	1:F:165:ILE:O	2.16	0.45
3:D:212:ARG:HB3	3:D:386:HIS:HB2	1.99	0.45
2:H:191:PHE:HB2	2:H:241:LEU:CD1	2.47	0.45
2:C:267:TYR:CG	2:C:272:ALA:HB1	2.52	0.45
2:C:265:ARG:N	2:C:289:THR:HG21	2.19	0.45
3:I:452:ILE:C	3:I:452:ILE:HD13	2.37	0.45
2:M:54:ILE:O	2:M:54:ILE:HG22	2.15	0.45
2:M:54:ILE:HG22	2:M:66:LEU:H	1.82	0.45
2:M:679:PHE:C	3:N:943:THR:CG2	2.85	0.45
2:C:1097:LEU:CD1	3:D:1451:ALA:HA	2.47	0.45
3:N:415:VAL:O	3:N:432:TYR:HA	2.16	0.45
2:H:1088:LEU:HD21	3:I:614:PHE:CZ	2.51	0.45
3:D:153:LEU:O	3:D:153:LEU:HD12	2.17	0.45
2:M:671:ASN:OD1	2:M:993:PHE:HD2	2.00	0.45
2:H:576:ALA:CB	2:H:900:ARG:NH1	2.60	0.45
2:C:544:THR:C	2:C:546:LEU:H	2.20	0.45
3:I:189:GLN:HG2	3:I:190:GLU:N	2.32	0.45
1:F:18:ARG:HH12	1:F:88:ARG:NE	2.15	0.45
2:H:96:ALA:O	2:H:98:LEU:HD11	2.17	0.45
3:N:348:GLN:H	3:N:351:MET:CE	2.29	0.45
2:C:317:VAL:C	2:C:319:GLY:H	2.20	0.45
3:I:1114:THR:O	3:I:1114:THR:CG2	2.64	0.45
1:L:57:TYR:C	1:L:58:ILE:HD12	2.37	0.45
7:X:89:VAL:HG13	7:X:151:VAL:HG13	1.98	0.45
3:I:157:GLU:O	3:I:161:LEU:N	2.40	0.45
2:M:600:ASP:OD1	2:M:649:VAL:O	2.35	0.45
2:M:588:VAL:HG12	2:M:661:SER:HB3	1.98	0.45
2:H:950:LEU:O	2:H:950:LEU:CD1	2.65	0.45
3:D:1381:VAL:HB	3:D:1389:LEU:HA	1.99	0.45
3:I:835:SER:N	3:I:838:ARG:CD	2.79	0.45
2:H:391:LEU:C	2:H:391:LEU:HD23	2.37	0.45
4:O:24:ALA:O	4:O:25:LYS:C	2.55	0.45
2:H:915:LYS:HE2	2:H:968:LEU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:875:THR:CG2	3:N:879:ARG:CB	2.95	0.45
2:M:449:ILE:C	2:M:451:LEU:H	2.19	0.45
3:I:827:ILE:H	3:I:827:ILE:CD1	2.28	0.45
1:B:165:ILE:N	1:B:165:ILE:CD1	2.76	0.45
2:H:496:ILE:H	2:H:496:ILE:CD1	2.29	0.45
2:M:154:ARG:HH12	2:M:178:PRO:N	2.15	0.45
7:X:78:GLY:O	7:X:156:GLY:HA2	2.16	0.45
2:H:178:PRO:C	2:H:180:GLY:N	2.70	0.45
3:I:572:ARG:O	3:I:573:MET:C	2.56	0.45
2:C:426:ASP:O	2:C:426:ASP:OD1	2.35	0.45
1:G:227:ASN:HD22	1:G:227:ASN:N	2.14	0.45
7:Z:75:LEU:O	7:Z:77:GLU:HG3	2.17	0.45
1:B:81:ASN:O	1:B:84:GLU:HB3	2.17	0.45
4:E:60:ALA:O	4:E:63:TRP:HB2	2.17	0.45
3:I:1029:ARG:HH21	7:Y:41:ASP:CG	2.21	0.44
3:I:116:LEU:O	3:I:116:LEU:HD23	2.17	0.44
3:I:127:LEU:CD1	3:I:127:LEU:O	2.59	0.44
3:I:162:ARG:HB3	3:I:452:ILE:HG21	1.99	0.44
3:I:514:LEU:HD11	3:I:582:LEU:HD11	1.99	0.44
2:M:878:SER:HA	3:N:1034:GLN:NE2	2.31	0.44
2:M:336:VAL:O	2:M:339:LEU:HB2	2.16	0.44
3:D:643:GLY:N	3:D:727:GLN:O	2.50	0.44
3:N:160:GLU:HA	3:N:165:LYS:HB2	1.99	0.44
3:N:179:VAL:HG13	3:N:183:GLU:CB	2.47	0.44
2:H:185:LYS:CG	2:H:190:LYS:HA	2.46	0.44
1:G:66:SER:OG	1:G:75:VAL:HG21	2.17	0.44
2:M:197:LEU:HA	2:M:200:LEU:CD1	2.20	0.44
2:H:878:SER:C	3:I:1034:GLN:HE22	2.19	0.44
3:I:1043:GLY:O	3:I:1057:VAL:N	2.42	0.44
3:D:1144:LEU:HD22	3:D:1166:LEU:CD1	2.47	0.44
1:K:88:ARG:NH1	1:K:90:LEU:HD11	2.32	0.44
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.99	0.44
4:J:23:VAL:HG13	4:J:65:MET:HG3	1.98	0.44
5:T:18:DC:H2'	5:T:19:DC:H6	1.82	0.44
2:C:148:PHE:HE1	2:C:309:TYR:HB3	1.76	0.44
3:I:1462:LEU:N	3:I:1462:LEU:HD23	2.32	0.44
2:H:129:ILE:HD11	2:H:386:PHE:CD2	2.49	0.44
3:D:1287:GLU:C	3:D:1289:LYS:H	2.19	0.44
2:H:642:ARG:CD	2:H:642:ARG:O	2.56	0.44
2:C:1052:MET:SD	2:C:1056:LYS:CD	3.06	0.44
3:D:511:TRP:C	3:D:513:ILE:H	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:483:HIS:CB	3:N:484:PRO:HD3	2.40	0.44
3:I:642:CYS:O	3:I:642:CYS:SG	2.74	0.44
3:N:621:LYS:HA	3:N:621:LYS:HD3	1.43	0.44
2:M:374:ASN:N	2:M:374:ASN:ND2	2.64	0.44
2:H:11:GLU:HG2	2:H:537:LYS:NZ	2.33	0.44
2:M:915:LYS:HE2	2:M:968:LEU:O	2.17	0.44
2:C:442:GLU:CD	2:C:543:ASN:HD22	2.20	0.44
3:N:795:VAL:HG12	3:N:796:ARG:N	2.32	0.44
2:C:1068:GLU:O	2:C:1071:ILE:HB	2.17	0.44
3:D:957:PRO:HG2	3:D:1007:VAL:CA	2.47	0.44
1:A:186:LEU:CD2	1:A:187:GLY:N	2.77	0.44
3:D:54:LYS:CG	3:D:55:ASP:H	2.29	0.44
3:N:1487:VAL:CG1	3:N:1488:ASP:H	2.29	0.44
2:M:725:ASP:O	2:M:727:PRO:HD3	2.17	0.44
7:Y:78:GLY:O	7:Y:156:GLY:HA2	2.17	0.44
1:K:30:ARG:HA	1:K:193:ASP:OD1	2.16	0.44
2:H:430:VAL:HG13	3:I:1075:HIS:ND1	2.31	0.44
2:H:674:VAL:HG23	2:H:869:VAL:O	2.16	0.44
2:C:187:ASN:OD1	2:C:187:ASN:O	2.36	0.44
2:H:426:ASP:OD1	2:H:426:ASP:O	2.35	0.44
7:X:93:ASP:OD2	7:X:96:SER:OG	2.35	0.44
2:M:413:LEU:O	2:M:413:LEU:HD12	2.17	0.44
7:X:14:ARG:HH11	7:X:14:ARG:HB3	1.81	0.44
3:I:1020:LEU:HD12	3:I:1020:LEU:HA	1.80	0.44
1:K:230:ALA:HB2	1:L:13:VAL:O	2.17	0.44
3:D:207:PHE:CE1	2:H:283:ILE:CB	2.97	0.44
2:H:284:ARG:HG2	2:H:285:LEU:N	2.33	0.44
3:I:50:PHE:C	3:I:89:ARG:CG	2.84	0.44
3:I:787:LEU:C	3:I:787:LEU:HD12	2.36	0.44
2:M:1085:PHE:CD1	2:M:1085:PHE:C	2.91	0.44
3:N:189:GLN:HE21	3:N:190:GLU:N	2.14	0.44
2:H:1088:LEU:HD11	3:I:614:PHE:CE1	2.52	0.44
3:D:451:ASP:O	3:D:452:ILE:CG2	2.65	0.44
3:D:1348:LEU:HD23	3:D:1372:VAL:HG23	1.99	0.44
2:M:577:PRO:C	2:M:579:VAL:N	2.71	0.44
3:I:202:VAL:HG11	3:I:445:ARG:CZ	2.48	0.44
3:I:761:ILE:HG21	4:J:20:THR:HG23	2.00	0.44
2:C:1087:VAL:O	2:C:1091:GLU:HG3	2.18	0.44
3:I:1325:LEU:HD12	3:I:1325:LEU:HA	1.70	0.44
3:D:925:GLU:CD	4:E:6:ILE:HG22	2.37	0.44
1:A:141:GLU:OE1	1:A:161:ARG:NH1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:124:ASN:HD21	1:K:127:LEU:CD2	2.26	0.44
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	1.99	0.44
2:M:625:LEU:O	2:M:626:ARG:C	2.55	0.44
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.99	0.44
2:H:865:THR:HA	2:H:866:PRO:HD3	1.74	0.44
1:L:56:VAL:CG2	1:L:142:VAL:HG12	2.45	0.44
2:C:473:ARG:CA	2:C:531:PHE:CE1	2.99	0.44
2:M:63:GLY:CA	2:M:103:LYS:CG	2.94	0.44
3:I:642:CYS:HB3	3:I:716:PHE:HB3	1.99	0.44
3:I:804:LEU:CB	3:I:830:ALA:O	2.65	0.44
3:I:996:TRP:O	3:I:999:THR:HG22	2.16	0.44
5:R:18:DC:H2'	5:R:19:DC:C5	2.52	0.44
3:I:827:ILE:HD12	3:I:827:ILE:N	2.27	0.44
4:E:67:GLU:HB3	4:E:73:LEU:HD11	1.99	0.44
1:A:14:ARG:NH2	2:C:934:PHE:HZ	2.15	0.44
2:C:690:ILE:HG23	2:C:852:ILE:HG23	1.99	0.44
2:H:625:LEU:O	2:H:627:ARG:N	2.49	0.44
3:I:701:LEU:H	3:I:701:LEU:HD12	1.82	0.44
1:L:73:GLU:HB2	1:L:78:ILE:HD11	2.00	0.44
1:A:83:LYS:HD3	1:A:167:VAL:HG12	1.99	0.44
2:M:931:GLY:C	2:M:933:GLY:N	2.70	0.44
3:N:759:ALA:O	3:N:763:MET:HB3	2.17	0.44
2:H:229:MET:CB	2:H:230:ARG:HH12	2.30	0.44
3:D:159:ARG:HH22	2:H:218:VAL:CG2	2.31	0.44
2:C:223:ASP:OD1	2:C:224:GLU:N	2.50	0.44
3:I:145:VAL:HG22	3:I:146:PRO:CD	2.44	0.44
3:N:970:LYS:NZ	7:Z:113:LEU:CA	2.77	0.44
2:M:101:ILE:CB	2:M:108:ILE:HG12	2.46	0.44
2:M:557:ARG:HH21	2:M:879:ARG:NE	2.12	0.44
2:C:1095:LEU:HD12	2:C:1097:LEU:N	2.24	0.44
3:N:17:LYS:CD	3:N:21:TRP:HE1	2.30	0.44
2:M:124:ASP:N	2:M:124:ASP:OD1	2.40	0.44
3:N:137:PRO:HD3	3:N:453:ASP:CB	2.35	0.44
1:G:73:GLU:HA	1:L:162:ILE:CD1	2.48	0.44
3:N:806:PHE:C	3:N:808:THR:N	2.70	0.44
3:N:105:VAL:HG21	3:N:128:TYR:HE1	1.83	0.44
3:D:1347:TYR:HD2	3:D:1348:LEU:HD12	1.81	0.44
2:C:114:PHE:O	2:C:375:SER:OG	2.30	0.44
1:B:80:LEU:HA	1:B:83:LYS:HE3	1.98	0.44
3:N:1304:LYS:O	3:N:1306:PRO:HD3	2.18	0.44
3:N:341:GLU:HA	3:N:342:PRO:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:274:ARG:HG2	2:M:274:ARG:NH1	2.31	0.44
3:I:806:PHE:HE1	3:I:813:LEU:HB3	1.80	0.44
1:F:58:ILE:HB	1:F:61:VAL:HB	1.99	0.44
1:K:79:ILE:CG1	1:K:80:LEU:N	2.75	0.44
3:I:1256:LEU:CD2	3:I:1260:ILE:HD11	2.48	0.44
2:H:134:ARG:NH1	2:H:386:PHE:O	2.50	0.44
3:N:701:LEU:HD12	3:N:701:LEU:H	1.82	0.44
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.32	0.44
3:I:1359:GLN:NE2	7:Y:52:LYS:HD3	2.23	0.44
3:N:835:SER:N	3:N:838:ARG:HD3	2.32	0.44
2:H:30:LEU:HB3	2:H:44:ILE:CG1	2.46	0.44
3:I:957:PRO:HG2	3:I:1007:VAL:CA	2.47	0.44
3:N:1025:GLN:NE2	3:N:1025:GLN:CA	2.79	0.44
2:C:584:GLU:H	2:C:584:GLU:CD	2.21	0.44
3:I:1232:PRO:HB2	3:I:1356:TYR:HE2	1.82	0.44
2:C:706:GLU:HB3	2:C:708:TYR:HE1	1.81	0.44
2:M:474:VAL:HG23	2:M:478:VAL:O	2.17	0.44
3:D:426:LYS:CE	3:D:427:VAL:HG23	2.46	0.44
7:X:5:VAL:O	7:X:72:ALA:HA	2.18	0.44
2:H:518:LYS:HE2	2:H:518:LYS:HB2	1.73	0.44
2:H:1085:PHE:C	2:H:1085:PHE:CD1	2.91	0.44
2:M:48:PHE:HA	2:M:348:LEU:CD2	2.48	0.44
3:D:23:TYR:O	3:D:49:ILE:CG2	2.63	0.44
2:M:1087:VAL:O	2:M:1091:GLU:HG3	2.18	0.44
3:N:204:LEU:HD12	3:N:205:TYR:N	2.31	0.44
3:N:454:ALA:C	3:N:455:ARG:HG2	2.37	0.44
3:N:415:VAL:CG2	3:N:435:VAL:CG2	2.95	0.44
1:G:80:LEU:O	1:G:83:LYS:HG3	2.17	0.44
2:H:265:ARG:HG2	2:H:267:TYR:CB	2.47	0.44
3:N:1434:TRP:CD1	3:N:1434:TRP:C	2.90	0.44
2:H:399:ASN:O	2:H:402:SER:HB3	2.18	0.44
2:M:254:VAL:CA	2:M:257:VAL:HG23	2.47	0.44
3:I:1047:LYS:HZ1	3:I:1053:PHE:HA	1.80	0.44
2:H:6:PHE:HB2	2:H:909:ALA:CA	2.46	0.44
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.91	0.44
2:C:92:ALA:N	2:C:118:ILE:O	2.40	0.44
1:K:73:GLU:OE1	1:K:129:ILE:O	2.35	0.44
1:K:73:GLU:HB2	1:K:78:ILE:HD11	1.99	0.44
2:H:294:GLU:HG2	2:H:295:ASP:N	2.31	0.44
3:N:1066:THR:HG22	3:N:1069:GLU:CB	2.38	0.44
2:M:950:LEU:O	2:M:950:LEU:CD1	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:897:LEU:HD21	2:C:921:ALA:N	2.32	0.44
2:H:720:GLU:HA	2:H:759:THR:O	2.17	0.44
3:N:112:ILE:CD1	3:N:112:ILE:C	2.78	0.44
7:X:102:VAL:HG13	7:X:119:ILE:HG12	1.99	0.44
7:Y:115:THR:CB	7:Y:116:PRO:CD	2.91	0.44
2:C:82:GLU:OE1	2:C:86:LYS:HE3	2.17	0.44
3:N:972:LEU:C	3:N:976:GLN:HE21	2.20	0.44
1:A:133:GLU:OE2	2:C:605:LYS:HB3	2.18	0.44
7:X:128:ALA:O	7:X:138:LEU:HD13	2.17	0.44
2:M:631:SER:CB	2:M:637:LEU:HD11	2.47	0.44
3:D:166:GLN:HE21	3:D:396:VAL:CG1	2.29	0.44
2:H:1085:PHE:HD2	3:I:1468:LEU:HA	1.82	0.44
2:C:264:PRO:CB	2:C:289:THR:HG21	2.48	0.44
2:C:431:HIS:CD2	2:C:433:THR:OG1	2.70	0.44
3:N:643:GLY:N	3:N:727:GLN:O	2.50	0.44
3:D:1441:GLN:HE21	3:D:1441:GLN:HB3	1.58	0.44
3:D:9:ARG:CD	3:D:1456:LYS:HE2	2.41	0.44
3:I:615:ARG:HG3	3:I:619:LEU:HD11	2.00	0.44
2:C:185:LYS:HD2	2:C:190:LYS:CE	2.47	0.44
2:M:267:TYR:CB	2:M:272:ALA:CB	2.81	0.44
3:N:23:TYR:CE1	3:N:89:ARG:HG2	2.53	0.44
3:N:141:ILE:CD1	3:N:448:GLU:OE2	2.66	0.44
2:H:464:LEU:HB3	2:H:466:PHE:HE2	1.81	0.44
2:M:204:GLN:OE1	2:M:204:GLN:N	2.50	0.44
3:N:116:LEU:HD23	3:N:116:LEU:O	2.18	0.44
2:H:548:PRO:HG2	2:H:842:ARG:NH2	2.33	0.44
2:H:1008:ARG:NH2	2:H:1011:GLY:N	2.65	0.44
4:E:35:PHE:C	4:E:36:LYS:CE	2.84	0.44
2:H:431:HIS:CD2	2:H:433:THR:OG1	2.71	0.44
1:F:88:ARG:NH1	1:F:90:LEU:HD11	2.32	0.44
2:H:52:PHE:CZ	2:H:98:LEU:HB3	2.51	0.44
2:C:1040:LEU:O	2:C:1041:GLU:C	2.55	0.44
3:I:1304:LYS:O	3:I:1306:PRO:HD3	2.17	0.44
2:H:136:ILE:CB	2:H:336:VAL:HG13	2.47	0.44
1:G:41:ARG:NH1	1:G:177:VAL:O	2.51	0.44
2:M:235:LEU:CD1	2:M:298:PHE:HZ	2.19	0.44
1:K:78:ILE:HD12	1:K:130:ALA:HB2	2.00	0.44
1:A:124:ASN:HD21	1:A:127:LEU:CD2	2.26	0.44
3:N:170:PRO:O	3:N:195:VAL:HG21	2.18	0.44
2:M:1046:ALA:CA	3:N:1472:ILE:HD11	2.41	0.44
3:N:1232:PRO:HB2	3:N:1356:TYR:HE2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:395:LYS:O	2:C:397:GLU:N	2.50	0.44
3:D:642:CYS:SG	3:D:642:CYS:O	2.74	0.44
2:H:442:GLU:CD	2:H:543:ASN:HD22	2.21	0.44
1:G:86:VAL:O	1:G:86:VAL:HG13	2.18	0.44
1:B:206:THR:HG23	1:B:207:PRO:N	2.32	0.44
7:Y:127:LYS:O	7:Y:127:LYS:HD3	2.16	0.44
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.83	0.44
2:M:691:SER:O	2:M:692:GLU:C	2.55	0.44
3:I:1491:THR:HG22	3:I:1491:THR:O	2.16	0.44
2:H:1051:GLU:CG	2:H:1055:LEU:HD12	2.48	0.44
2:C:931:GLY:O	2:C:933:GLY:N	2.51	0.44
1:A:165:ILE:HG12	1:A:165:ILE:O	2.16	0.44
7:X:9:LYS:HB3	7:X:9:LYS:HE2	1.79	0.44
3:D:1310:ARG:HD3	3:D:1310:ARG:HA	1.77	0.44
2:C:481:ASP:N	2:C:481:ASP:OD1	2.50	0.44
7:Z:92:GLU:HA	7:Z:98:GLU:O	2.18	0.44
3:I:1033:GLN:OE1	3:I:1036:ARG:NH1	2.50	0.44
2:C:182:VAL:HB	2:C:193:LEU:CB	2.48	0.44
2:C:217:LEU:O	2:C:218:VAL:C	2.56	0.44
2:C:335:THR:O	2:C:336:VAL:C	2.56	0.44
3:I:457:GLY:O	3:I:458:ALA:C	2.54	0.44
3:N:645:PRO:CD	3:N:726:ILE:HG12	2.45	0.44
2:M:431:HIS:CD2	2:M:433:THR:OG1	2.71	0.44
2:H:1102:LEU:HD23	2:H:1106:ASP:HB3	2.00	0.44
3:D:727:GLN:HB3	3:D:727:GLN:HE21	1.65	0.44
1:K:83:LYS:HD3	1:K:167:VAL:HG12	1.99	0.44
3:N:1209:LEU:CD2	4:O:16:LYS:HE3	2.42	0.44
3:I:1042:ARG:HH11	3:I:1042:ARG:HB2	1.82	0.44
2:M:169:GLY:HA2	2:M:170:PRO:HD3	1.85	0.44
3:N:408:GLU:HG2	3:N:420:VAL:O	2.18	0.44
3:N:729:HIS:HE2	3:N:935:LYS:HD3	1.81	0.44
5:T:18:DC:C2	6:U:13:G:N2	2.82	0.44
3:N:368:VAL:HB	3:N:377:VAL:HG21	2.00	0.44
3:D:631:ILE:HG21	3:D:745:MET:CG	2.48	0.44
1:B:211:LEU:O	1:B:214:ALA:HB3	2.17	0.44
2:C:358:ARG:HH12	2:C:374:ASN:ND2	2.16	0.44
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.99	0.44
2:C:957:LYS:CD	2:C:961:GLU:CB	2.95	0.44
2:M:1038:TRP:CE2	3:N:1099:VAL:HG11	2.53	0.44
2:M:642:ARG:O	2:M:642:ARG:CD	2.55	0.44
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:168:ASP:OD1	2:H:832:LYS:NZ	2.51	0.44
1:G:26:GLU:CB	1:G:27:PRO:HA	2.47	0.44
3:D:26:VAL:O	3:D:26:VAL:CG2	2.62	0.44
3:N:511:TRP:C	3:N:513:ILE:N	2.71	0.44
2:H:367:LEU:HA	2:H:371:LYS:HE3	1.99	0.44
2:M:394:PHE:CE2	5:T:20:DG:H4'	2.53	0.44
3:I:1205:TYR:OH	3:I:1367:HIS:CE1	2.71	0.44
1:G:94:LEU:CD1	1:G:119:ASP:HB2	2.44	0.44
2:C:554:ASP:HB2	2:C:880:MET:HB2	2.00	0.44
2:C:754:ILE:CG1	2:C:791:ARG:HH12	2.31	0.44
1:F:101:LEU:HD12	1:F:113:ASP:O	2.18	0.44
2:C:915:LYS:HE2	2:C:968:LEU:O	2.17	0.44
2:C:1071:ILE:HG23	3:D:670:VAL:HG11	2.00	0.44
2:H:503:LEU:HD23	2:H:507:ARG:C	2.38	0.44
2:M:266:ARG:HD3	2:M:266:ARG:O	2.17	0.44
3:D:660:LYS:NZ	3:D:660:LYS:CA	2.79	0.44
2:C:640:ARG:HH11	2:C:640:ARG:HG2	1.83	0.44
2:M:591:SER:O	2:M:592:LEU:HB2	2.17	0.44
2:C:480:THR:HG22	2:C:481:ASP:H	1.83	0.44
3:N:42:ASP:H	3:N:46:ASP:HB2	1.83	0.44
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	2.00	0.44
3:D:205:TYR:HD1	3:D:390:PRO:CB	2.30	0.44
3:D:412:GLY:HA2	3:D:434:ARG:NE	2.32	0.44
2:H:311:PHE:N	2:H:311:PHE:CD2	2.86	0.44
3:I:781:PRO:HB2	3:I:786:ILE:CD1	2.43	0.44
2:C:22:GLN:HE21	2:C:336:VAL:HG22	1.83	0.44
3:D:1045:MET:HG3	3:D:1073:SER:OG	2.17	0.44
2:M:363:SER:HB2	2:M:366:SER:CB	2.47	0.44
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.88	0.44
3:D:644:LEU:HA	3:D:645:PRO:HD3	1.84	0.44
3:N:183:GLU:O	3:N:185:VAL:HG23	2.18	0.44
3:N:148:GLU:CB	3:N:151:GLN:HB3	2.48	0.44
2:M:575:GLN:C	2:M:667:ALA:HB1	2.38	0.44
2:H:141:HIS:HD1	2:H:144:PRO:HD3	1.83	0.44
2:H:167:LYS:HG2	2:H:167:LYS:O	2.17	0.44
3:N:461:ILE:HD13	3:N:461:ILE:N	2.33	0.44
3:D:432:TYR:HB3	3:D:450:TYR:CG	2.52	0.44
4:J:54:LEU:CA	4:J:58:PRO:HG2	2.47	0.44
1:A:88:ARG:NH1	1:A:90:LEU:HD11	2.32	0.44
2:M:278:GLU:HA	2:M:283:ILE:HA	1.99	0.44
3:I:631:ILE:HG21	3:I:745:MET:CG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:ILE:HB	1:A:61:VAL:HB	2.00	0.44
1:K:73:GLU:OE1	1:K:78:ILE:HD13	2.18	0.44
2:C:148:PHE:CE2	2:C:160:ALA:CB	3.01	0.44
2:H:861:LEU:CD2	2:H:862:PRO:HD2	2.48	0.44
2:C:673:LEU:HB3	2:C:868:ASP:OD1	2.18	0.44
2:C:673:LEU:CB	2:C:868:ASP:OD1	2.65	0.44
3:N:1384:PRO:CB	3:N:1388:ARG:NH1	2.81	0.44
1:L:42:ARG:CG	1:L:42:ARG:NH1	2.80	0.44
3:I:1066:THR:HG22	3:I:1069:GLU:CB	2.38	0.44
3:N:502:PHE:CZ	3:N:509:PRO:HB3	2.53	0.44
7:Z:120:SER:HB2	7:Z:123:SER:OG	2.17	0.44
3:N:881:LEU:HD12	3:N:885:ILE:HD11	1.98	0.44
3:N:1205:TYR:OH	3:N:1367:HIS:CE1	2.71	0.44
3:D:1325:LEU:HD12	3:D:1325:LEU:HA	1.70	0.44
3:I:1348:LEU:HD23	3:I:1372:VAL:HG23	1.99	0.44
2:H:72:ARG:CZ	2:H:95:TYR:CE1	3.01	0.44
3:I:794:GLN:CG	3:I:1017:PHE:CE2	3.01	0.44
2:M:722:ILE:O	2:M:722:ILE:CD1	2.64	0.44
2:C:3:ILE:N	2:C:3:ILE:CD1	2.80	0.44
3:D:1422:MET:HE2	3:D:1427:SER:HA	2.00	0.44
3:I:963:TYR:HD2	3:I:1002:LYS:HD3	1.81	0.44
3:N:1168:MET:HA	3:N:1168:MET:HE3	1.99	0.44
2:C:922:PHE:HZ	2:C:963:LEU:HB3	1.83	0.44
2:H:931:GLY:C	2:H:933:GLY:N	2.70	0.44
3:I:17:LYS:CD	3:I:21:TRP:HE1	2.30	0.44
2:C:328:LEU:CD1	2:C:328:LEU:N	2.80	0.44
2:M:687:ALA:HB1	2:M:850:ALA:HB2	1.99	0.44
2:M:1082:PRO:O	2:M:1085:PHE:N	2.48	0.44
2:M:410:ILE:HG22	2:M:410:ILE:O	2.18	0.44
1:G:80:LEU:HG	3:I:844:ALA:HB2	1.98	0.44
2:H:265:ARG:CB	2:H:267:TYR:CZ	2.93	0.44
2:H:341:THR:CG2	2:H:342:ASP:N	2.80	0.44
2:H:332:ARG:CD	2:H:464:LEU:HG	2.47	0.44
2:M:224:GLU:OE1	2:M:227:PHE:HD1	2.01	0.44
2:H:1008:ARG:NH2	2:H:1011:GLY:O	2.51	0.44
3:D:1253:THR:HG21	3:D:1269:LYS:HG3	2.00	0.44
2:M:1003:ASP:O	2:M:1004:LYS:HD3	2.17	0.44
2:H:897:LEU:HD22	2:H:920:GLN:CG	2.48	0.44
3:D:129:PHE:HZ	3:D:587:ARG:HD2	1.82	0.44
2:C:73:LEU:HD12	2:C:74:GLY:N	2.32	0.44
3:N:982:PHE:HA	7:Z:125:MET:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:42:VAL:O	2:H:43:GLY:C	2.56	0.44
1:B:34:VAL:HG11	2:C:978:ARG:HB3	2.00	0.44
3:D:766:ALA:HB1	4:E:2:ALA:HB2	2.00	0.44
2:M:939:ARG:CD	2:M:982:PRO:HD3	2.47	0.44
2:C:358:ARG:HH12	2:C:374:ASN:CG	2.21	0.44
3:N:1384:PRO:HB3	3:N:1388:ARG:NH1	2.32	0.44
2:H:695:LEU:HD21	2:H:832:LYS:HB3	1.99	0.44
2:H:126:SER:CB	2:H:395:LYS:HZ1	2.31	0.44
3:N:9:ARG:NH1	3:N:11:ALA:HB2	2.33	0.44
3:D:1277:ILE:HD12	3:D:1277:ILE:N	2.33	0.44
2:H:322:VAL:O	2:H:322:VAL:CG2	2.62	0.44
1:G:51:THR:HG22	1:G:144:VAL:HG12	2.00	0.44
2:M:584:GLU:H	2:M:584:GLU:CD	2.21	0.44
1:G:206:THR:HG23	1:G:207:PRO:N	2.32	0.44
3:N:1155:VAL:O	3:N:1182:GLU:OE2	2.36	0.44
3:D:801:GLY:O	3:D:802:ALA:CB	2.65	0.44
2:H:413:LEU:HD12	2:H:413:LEU:O	2.17	0.44
1:B:95:GLN:HB2	1:B:95:GLN:HE21	1.57	0.44
1:F:38:ASN:HB2	2:H:980:GLY:HA3	1.99	0.44
3:D:141:ILE:HG13	3:D:448:GLU:OE2	2.17	0.44
3:D:159:ARG:HH22	2:H:218:VAL:HB	1.82	0.44
2:H:194:VAL:HA	2:H:197:LEU:HD12	1.99	0.44
3:I:461:ILE:N	3:I:461:ILE:HD13	2.33	0.44
3:N:1468:LEU:CD2	3:N:1470:ARG:HB2	2.32	0.44
3:N:161:LEU:HA	3:N:397:LYS:NZ	2.30	0.44
3:N:176:ASP:CB	3:N:389:GLU:HG2	2.47	0.44
2:H:273:GLY:HA2	2:H:276:LYS:NZ	2.33	0.44
2:H:332:ARG:HE	2:H:464:LEU:HG	1.83	0.44
2:M:174:LEU:HD22	2:M:193:LEU:CD2	2.37	0.44
2:C:700:TYR:N	2:C:700:TYR:CD1	2.86	0.44
2:H:1095:LEU:HD12	2:H:1097:LEU:N	2.24	0.44
3:D:991:GLN:NE2	7:X:112:VAL:CG2	2.81	0.44
3:I:407:VAL:HA	3:I:422:ALA:CB	2.47	0.44
4:J:47:LYS:HA	4:J:54:LEU:CB	2.45	0.44
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.76	0.44
2:C:129:ILE:CG2	2:C:130:ASN:N	2.62	0.44
3:I:1304:LYS:HB3	3:I:1304:LYS:HE2	1.64	0.44
1:K:58:ILE:HB	1:K:61:VAL:HB	2.00	0.44
2:H:25:SER:CB	2:H:335:THR:HB	2.48	0.44
3:N:351:MET:HA	3:N:370:ALA:HB2	2.00	0.44
3:I:1472:ILE:N	3:I:1472:ILE:HD12	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:881:LEU:HD12	3:D:885:ILE:HD11	1.98	0.44
3:D:881:LEU:O	3:D:885:ILE:HG12	2.18	0.44
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.52	0.44
2:H:16:PRO:HB3	2:H:17:PRO:CD	2.48	0.44
2:H:18:LEU:CD1	2:H:586:ARG:HH12	2.29	0.44
2:C:473:ARG:HA	2:C:531:PHE:CE1	2.52	0.44
1:L:26:GLU:CB	1:L:27:PRO:HA	2.47	0.44
3:D:511:TRP:C	3:D:513:ILE:N	2.71	0.44
3:D:701:LEU:H	3:D:701:LEU:HD12	1.82	0.44
3:N:1297:GLU:HG2	3:N:1298:GLY:H	1.75	0.44
2:M:403:SER:O	2:M:407:LYS:HG3	2.17	0.44
3:N:1262:LEU:HA	3:N:1262:LEU:HD12	1.84	0.44
2:H:151:ASP:OD1	2:H:152:PRO:HD2	2.18	0.44
2:H:946:ARG:CB	2:H:946:ARG:HH11	2.25	0.44
2:M:442:GLU:CD	2:M:543:ASN:HD22	2.21	0.44
3:N:1235:GLN:HG2	7:Z:48:LEU:HD11	1.99	0.44
3:D:827:ILE:HD12	3:D:827:ILE:N	2.27	0.44
2:M:758:ARG:NH2	2:M:788:THR:HG22	2.33	0.44
2:M:705:ILE:HG12	2:M:828:ALA:HB2	2.00	0.44
3:N:1294:VAL:O	3:N:1300:SER:HA	2.18	0.44
1:F:189:ARG:HG2	1:F:189:ARG:NH1	2.33	0.44
2:M:931:GLY:O	2:M:933:GLY:N	2.51	0.44
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.17	0.44
2:M:688:ILE:HG12	2:M:871:LEU:HD23	2.00	0.44
3:N:802:ALA:O	3:N:803:GLY:C	2.55	0.44
2:H:238:LEU:O	2:H:241:LEU:CB	2.66	0.43
2:H:684:PHE:HB3	3:I:633:VAL:HG21	2.00	0.43
2:C:173:ASP:O	2:C:184:MET:HA	2.18	0.43
2:C:226:VAL:HG13	2:C:227:PHE:H	1.83	0.43
3:I:99:ALA:O	3:I:514:LEU:CA	2.66	0.43
2:H:1087:VAL:O	2:H:1091:GLU:HG3	2.18	0.43
3:N:141:ILE:CD1	3:N:142:LEU:N	2.64	0.43
3:N:179:VAL:HG13	3:N:183:GLU:OE2	2.18	0.43
2:H:410:ILE:O	2:H:410:ILE:HG22	2.18	0.43
2:H:1095:LEU:CD1	2:H:1097:LEU:H	2.24	0.43
1:L:77:GLU:O	1:L:80:LEU:HB2	2.17	0.43
1:B:73:GLU:CG	1:B:130:ALA:HA	2.48	0.43
3:N:13:ALA:HB1	3:N:18:ILE:CD1	2.47	0.43
3:I:41:ARG:HD2	3:I:41:ARG:C	2.38	0.43
3:I:757:ALA:O	3:I:761:ILE:HG12	2.18	0.43
2:H:42:VAL:CG2	2:H:43:GLY:N	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1084:SER:HB2	3:D:617:ASN:HD21	1.83	0.43
3:I:925:GLU:CD	4:J:6:ILE:HG22	2.38	0.43
3:N:631:ILE:HG21	3:N:745:MET:CG	2.48	0.43
1:G:45:LEU:HD11	1:G:177:VAL:CG2	2.48	0.43
2:M:317:VAL:C	2:M:319:GLY:H	2.19	0.43
2:C:939:ARG:CD	2:C:982:PRO:HD3	2.47	0.43
2:H:64:LEU:HD22	2:H:359:MET:CG	2.48	0.43
1:A:8:ALA:O	1:A:9:PRO:C	2.56	0.43
3:D:800:LYS:CD	3:D:804:LEU:HD13	2.48	0.43
1:G:56:VAL:O	1:G:165:ILE:HD13	2.18	0.43
2:M:1038:TRP:CA	2:M:1041:GLU:HG3	2.46	0.43
2:M:1041:GLU:OE1	3:N:1462:LEU:HB3	2.18	0.43
4:O:54:LEU:HA	4:O:58:PRO:CG	2.47	0.43
1:A:101:LEU:HD12	1:A:113:ASP:O	2.18	0.43
2:C:447:ALA:HA	3:D:1085:ALA:HB1	1.98	0.43
3:I:1293:PHE:CD2	3:I:1300:SER:HB2	2.53	0.43
7:Y:94:PRO:HB2	7:Y:95:LEU:H	1.57	0.43
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.71	0.43
4:J:43:GLU:O	4:J:44:GLU:HB2	2.17	0.43
2:C:1013:TYR:HD1	2:C:1020:PRO:HA	1.83	0.43
3:I:583:ASP:OD2	3:I:604:THR:HG21	2.17	0.43
3:I:645:PRO:CD	3:I:726:ILE:HG12	2.45	0.43
2:C:136:ILE:HG23	2:C:391:LEU:HD22	1.98	0.43
2:C:141:HIS:O	2:C:331:ARG:HA	2.18	0.43
3:N:970:LYS:HG2	3:N:995:LEU:CD1	2.48	0.43
2:M:572:ILE:CD1	2:M:573:ARG:H	2.17	0.43
3:N:100:ALA:HB2	3:N:128:TYR:CZ	2.53	0.43
7:Z:85:LEU:HD22	7:Z:105:VAL:HA	2.00	0.43
2:C:691:SER:O	2:C:692:GLU:C	2.55	0.43
2:M:258:TYR:CG	2:M:258:TYR:O	2.71	0.43
2:H:1056:LYS:CB	3:I:623:VAL:HG13	2.48	0.43
3:D:1102:THR:C	3:D:1105:ILE:HD13	2.38	0.43
3:N:1090:ASP:OD2	3:N:1256:LEU:CD2	2.66	0.43
2:M:577:PRO:HG3	2:M:993:PHE:CZ	2.53	0.43
2:M:254:VAL:HA	2:M:257:VAL:HG23	2.00	0.43
3:D:1468:LEU:HD22	3:D:1470:ARG:HD3	1.99	0.43
3:I:436:GLU:OE1	3:I:445:ARG:HG3	2.17	0.43
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.18	0.43
2:C:1035:MET:HA	2:C:1038:TRP:CZ3	2.53	0.43
3:D:1123:PHE:HZ	3:D:1178:ALA:HB1	1.80	0.43
4:J:19:LEU:HD12	4:J:23:VAL:HG23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:199:VAL:CG1	2:M:298:PHE:CE1	3.01	0.43
2:C:479:VAL:N	2:C:506:ASN:O	2.48	0.43
3:I:1107:VAL:O	3:I:1218:GLY:N	2.47	0.43
2:C:673:LEU:CD2	2:C:867:VAL:HG12	2.46	0.43
2:M:1102:LEU:HD23	2:M:1106:ASP:HB3	2.00	0.43
2:H:950:LEU:CD1	2:H:952:LEU:HD21	2.46	0.43
2:C:897:LEU:HD22	2:C:920:GLN:CG	2.48	0.43
7:X:115:THR:CB	7:X:116:PRO:CD	2.94	0.43
2:H:354:GLY:O	2:H:358:ARG:HD3	2.18	0.43
3:N:398:ALA:CB	3:N:447:VAL:HA	2.46	0.43
3:I:841:TYR:O	3:I:864:VAL:HG12	2.17	0.43
2:C:449:ILE:O	2:C:451:LEU:N	2.51	0.43
2:H:681:GLY:C	3:I:635:PRO:CG	2.85	0.43
3:D:54:LYS:HG3	3:D:55:ASP:N	2.34	0.43
7:Z:21:ARG:CD	7:Z:21:ARG:N	2.81	0.43
3:I:1425:THR:HG23	3:I:1429:LEU:HD13	2.01	0.43
2:M:612:VAL:HG13	2:M:621:VAL:O	2.18	0.43
2:M:426:ASP:OD1	2:M:426:ASP:O	2.35	0.43
3:D:97:THR:HB	3:D:571:LYS:CE	2.48	0.43
3:N:471:GLU:H	3:N:471:GLU:HG2	1.54	0.43
3:D:1090:ASP:O	3:D:1093:TYR:HB2	2.18	0.43
2:H:494:TYR:CE2	2:H:531:PHE:HE2	2.34	0.43
3:I:1158:VAL:HG12	3:I:1159:ARG:N	2.33	0.43
2:M:922:PHE:HZ	2:M:963:LEU:HB3	1.83	0.43
2:C:207:LEU:HD21	2:C:221:LEU:HD22	1.99	0.43
2:C:438:ILE:HD11	2:C:467:ILE:HD12	2.00	0.43
3:D:683:ILE:CD1	3:D:687:VAL:HG21	2.36	0.43
2:M:52:PHE:O	2:M:53:PRO:C	2.56	0.43
2:M:873:PRO:HB3	3:N:949:ILE:CD1	2.48	0.43
3:D:1437:ALA:C	3:D:1439:SER:N	2.71	0.43
2:C:189:ARG:HD2	2:C:190:LYS:H	1.83	0.43
3:N:162:ARG:NH1	3:N:162:ARG:HG2	2.34	0.43
2:H:185:LYS:HG2	2:H:190:LYS:CA	2.48	0.43
3:I:1258:ARG:HG3	3:I:1262:LEU:HD22	2.00	0.43
3:N:1434:TRP:CZ3	3:N:1455:LYS:O	2.71	0.43
2:C:575:GLN:C	2:C:667:ALA:HB1	2.38	0.43
3:I:1441:GLN:CG	3:I:1442:ASN:H	2.31	0.43
3:I:1438:ALA:N	3:I:1446:VAL:HG11	2.33	0.43
3:I:502:PHE:CZ	3:I:509:PRO:HB3	2.53	0.43
3:I:511:TRP:C	3:I:513:ILE:N	2.71	0.43
2:H:565:GLN:HG2	2:H:995:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:696:HIS:NE2	4:J:54:LEU:CD1	2.81	0.43
3:D:1205:TYR:OH	3:D:1367:HIS:CE1	2.70	0.43
2:H:258:TYR:CE2	2:H:290:LEU:CD1	2.97	0.43
2:M:274:ARG:NE	2:M:285:LEU:HD22	2.33	0.43
2:C:1102:LEU:HD23	2:C:1106:ASP:HB3	2.00	0.43
2:C:1105:LYS:O	2:C:1107:ASN:N	2.51	0.43
3:I:160:GLU:CG	3:I:165:LYS:HG3	2.32	0.43
2:C:148:PHE:HD2	2:C:160:ALA:HA	1.82	0.43
2:C:31:GLN:O	2:C:31:GLN:NE2	2.47	0.43
3:N:1213:ARG:HH12	4:O:10:PHE:C	2.22	0.43
2:C:710:ILE:HD11	2:C:758:ARG:NE	2.31	0.43
3:I:881:LEU:O	3:I:885:ILE:HG12	2.18	0.43
3:I:970:LYS:HG2	3:I:995:LEU:CD1	2.48	0.43
3:I:970:LYS:O	3:I:974:ILE:HG13	2.19	0.43
3:I:470:LEU:CB	3:I:503:LEU:HD21	2.44	0.43
3:N:914:LEU:HD23	3:N:914:LEU:O	2.19	0.43
2:C:52:PHE:O	2:C:53:PRO:C	2.57	0.43
3:D:1452:ILE:HG22	3:D:1453:ALA:N	2.32	0.43
2:M:468:ARG:HB3	2:M:485:TYR:HB3	2.00	0.43
2:H:625:LEU:O	2:H:626:ARG:C	2.56	0.43
3:N:55:ASP:O	3:N:56:TYR:CB	2.66	0.43
1:A:83:LYS:HZ2	1:A:168:ASP:HB2	1.83	0.43
7:X:98:GLU:OE1	7:X:98:GLU:HA	2.18	0.43
3:D:593:ASN:HB3	3:D:594:PRO:HD2	2.01	0.43
3:D:438:ASP:HB3	3:D:441:ARG:NH2	2.33	0.43
3:I:50:PHE:CA	3:I:89:ARG:CB	2.97	0.43
2:H:885:ILE:HG13	3:I:949:ILE:HG22	2.01	0.43
2:C:217:LEU:C	2:C:219:GLN:N	2.70	0.43
2:C:232:GLU:CD	2:C:250:ARG:HH12	2.22	0.43
3:N:786:ILE:O	3:N:787:LEU:C	2.55	0.43
3:I:1095:THR:O	3:I:1099:VAL:CG2	2.62	0.43
3:N:141:ILE:HD13	3:N:142:LEU:C	2.38	0.43
2:C:654:LEU:HD13	2:C:663:ASN:O	2.18	0.43
2:H:1054:THR:O	2:H:1056:LYS:N	2.51	0.43
2:C:1085:PHE:HD2	3:D:1468:LEU:HA	1.84	0.43
3:D:129:PHE:HZ	3:D:587:ARG:CD	2.30	0.43
1:F:61:VAL:HG13	1:F:66:SER:HB3	1.99	0.43
2:H:22:GLN:OE1	2:H:336:VAL:HG21	2.18	0.43
3:I:766:ALA:CB	4:J:2:ALA:HB2	2.47	0.43
3:D:639:LEU:HD11	3:D:928:ALA:HB1	1.99	0.43
2:C:861:LEU:CD2	2:C:862:PRO:HD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:939:ARG:CD	2:H:982:PRO:HD3	2.48	0.43
3:I:1101:VAL:HG11	3:I:1424:VAL:O	2.19	0.43
1:F:176:ARG:NH1	2:H:863:ASP:OD2	2.52	0.43
2:M:958:THR:CG2	2:M:961:GLU:HG3	2.35	0.43
3:N:1288:GLU:HG2	3:N:1307:LYS:CE	2.43	0.43
2:C:577:PRO:C	2:C:579:VAL:N	2.71	0.43
3:D:1389:LEU:HD23	3:D:1389:LEU:H	1.83	0.43
2:M:11:GLU:HG2	2:M:537:LYS:HZ1	1.84	0.43
3:I:835:SER:C	3:I:837:GLY:N	2.69	0.43
3:N:841:TYR:O	3:N:864:VAL:HG12	2.17	0.43
2:C:11:GLU:CG	2:C:537:LYS:HZ1	2.30	0.43
4:J:80:VAL:HG13	4:J:81:PRO:HD2	1.99	0.43
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.99	0.43
2:M:449:ILE:O	2:M:451:LEU:N	2.51	0.43
3:D:786:ILE:O	3:D:787:LEU:C	2.55	0.43
3:N:1425:THR:HG23	3:N:1429:LEU:HD13	2.01	0.43
3:I:1479:ASP:OD2	3:I:1482:ARG:NH2	2.52	0.43
3:N:1194:CYS:SG	3:N:1204:CYS:SG	3.16	0.43
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	1.99	0.43
2:C:553:ASP:OD2	2:C:883:GLY:N	2.47	0.43
2:M:886:LEU:HA	2:M:886:LEU:HD12	1.38	0.43
2:M:474:VAL:HB	2:M:479:VAL:HG12	2.01	0.43
2:C:462:ASP:CG	2:C:463:GLU:N	2.70	0.43
3:D:41:ARG:H	3:D:41:ARG:HG3	1.49	0.43
3:D:353:VAL:O	3:D:353:VAL:HG23	2.18	0.43
2:H:182:VAL:CA	2:H:193:LEU:HD11	2.49	0.43
2:H:684:PHE:CG	2:H:685:GLU:N	2.86	0.43
2:C:206:THR:HG23	2:C:207:LEU:N	2.34	0.43
2:C:22:GLN:HG2	2:C:336:VAL:CG2	2.47	0.43
3:N:970:LYS:O	3:N:974:ILE:HG13	2.19	0.43
2:M:874:LEU:CD1	3:N:784:ASP:OD2	2.67	0.43
3:D:100:ALA:HB3	3:D:128:TYR:HE2	1.83	0.43
3:D:461:ILE:HD13	3:D:461:ILE:N	2.33	0.43
3:D:87:ARG:CB	3:D:523:ASP:CB	2.50	0.43
2:M:431:HIS:CD2	2:M:433:THR:H	2.37	0.43
3:N:87:ARG:HA	3:N:523:ASP:HB2	2.01	0.43
2:C:885:ILE:CG1	3:D:949:ILE:HG22	2.45	0.43
3:D:1029:ARG:NH2	7:X:42:ASP:HB3	2.32	0.43
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.49	0.43
2:H:575:GLN:C	2:H:667:ALA:HB1	2.38	0.43
2:C:654:LEU:CD1	2:C:663:ASN:O	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:206:THR:OG1	1:K:207:PRO:HD2	2.19	0.43
2:H:1052:MET:CG	3:I:623:VAL:HG21	2.48	0.43
3:D:17:LYS:CD	3:D:21:TRP:HE1	2.30	0.43
3:I:438:ASP:OD1	3:I:441:ARG:NH2	2.51	0.43
1:F:206:THR:OG1	1:F:207:PRO:HD2	2.19	0.43
2:H:445:GLU:HG3	2:H:560:MET:HE3	2.01	0.43
1:F:174:VAL:HG13	1:F:200:TRP:O	2.17	0.43
2:H:943:VAL:HG23	2:H:985:GLY:N	2.18	0.43
2:M:943:VAL:HG23	2:M:985:GLY:N	2.18	0.43
1:A:20:TYR:O	1:A:207:PRO:HG2	2.18	0.43
3:D:829:VAL:O	3:D:831:GLY:N	2.52	0.43
2:H:654:LEU:HD13	2:H:663:ASN:O	2.18	0.43
2:C:950:LEU:CD1	2:C:952:LEU:HD21	2.46	0.43
2:H:691:SER:C	2:H:693:GLU:N	2.72	0.43
2:H:536:PRO:HB3	2:H:906:PHE:HD1	1.82	0.43
2:H:1038:TRP:HD1	2:H:1041:GLU:OE2	2.01	0.43
2:H:583:LEU:HD12	2:H:583:LEU:N	2.34	0.43
2:C:266:ARG:HA	2:C:288:ARG:HD3	2.00	0.43
2:H:754:ILE:CG1	2:H:791:ARG:HH12	2.31	0.43
2:M:946:ARG:HH12	3:N:796:ARG:HH22	1.66	0.43
2:C:52:PHE:HB3	2:C:53:PRO:CD	2.48	0.43
2:M:1071:ILE:HG23	3:N:670:VAL:HG11	2.01	0.43
3:I:1455:LYS:HD3	3:I:1455:LYS:HA	1.70	0.43
2:M:473:ARG:HA	2:M:531:PHE:CD1	2.53	0.43
1:L:206:THR:HG23	1:L:207:PRO:N	2.32	0.43
4:E:84:ARG:O	4:E:88:GLU:HG2	2.19	0.43
2:H:473:ARG:HA	2:H:531:PHE:CD1	2.54	0.43
2:H:922:PHE:HZ	2:H:963:LEU:HB3	1.83	0.43
3:N:1458:GLU:HA	3:N:1458:GLU:OE2	2.19	0.43
3:I:1117:TYR:CZ	3:I:1151:ARG:HD2	2.53	0.43
3:I:1136:LYS:HB2	3:I:1139:ASP:OD2	2.19	0.43
2:H:205:GLU:HG3	2:H:205:GLU:H	1.57	0.43
2:H:285:LEU:HG	2:H:286:SER:N	2.33	0.43
2:C:293:PHE:HA	2:C:298:PHE:CD2	2.53	0.43
3:I:130:SER:OG	3:I:132:TYR:HD1	2.02	0.43
3:I:133:ILE:O	3:I:152:LEU:CB	2.67	0.43
3:D:682:ASP:C	3:D:684:LYS:H	2.20	0.43
2:M:100:LEU:HD12	2:M:100:LEU:C	2.39	0.43
2:M:100:LEU:HD23	2:M:372:LEU:HD21	2.00	0.43
2:M:48:PHE:HD1	2:M:48:PHE:HA	1.73	0.43
2:M:36:PRO:HB3	2:M:70:GLU:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:684:PHE:CG	2:M:685:GLU:N	2.86	0.43
3:D:101:HIS:O	3:D:105:VAL:HG23	2.18	0.43
2:C:1097:LEU:CD1	3:D:1451:ALA:CA	2.92	0.43
2:H:313:LEU:CB	2:H:320:HIS:ND1	2.80	0.43
2:H:602:GLU:O	2:H:613:VAL:HB	2.18	0.43
2:H:703:ILE:CD1	2:H:703:ILE:N	2.82	0.43
3:I:465:LEU:HD11	3:I:512:MET:HB2	2.00	0.43
1:K:18:ARG:O	1:K:201:THR:OG1	2.36	0.43
1:K:206:THR:HG23	1:K:208:LEU:N	2.34	0.43
3:D:1087:ARG:HG2	3:D:1234:THR:O	2.18	0.43
7:X:33:LEU:HD11	7:X:52:LYS:CG	2.44	0.43
3:I:1209:LEU:CD2	3:I:1211:MET:H	2.25	0.43
2:H:431:HIS:CD2	2:H:433:THR:H	2.37	0.43
3:D:806:PHE:C	3:D:808:THR:N	2.71	0.43
2:H:290:LEU:CB	2:H:302:VAL:CG1	2.92	0.43
1:F:141:GLU:OE1	1:F:161:ARG:NH1	2.47	0.43
2:H:939:ARG:NE	2:H:939:ARG:HA	2.14	0.43
3:I:676:MET:CE	3:I:684:LYS:HE3	2.49	0.43
1:A:206:THR:OG1	1:A:207:PRO:HD2	2.18	0.43
3:I:1287:GLU:C	3:I:1289:LYS:H	2.22	0.43
1:F:83:LYS:HD3	1:F:167:VAL:HG12	1.99	0.43
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.54	0.43
3:N:957:PRO:HG2	3:N:1007:VAL:CA	2.47	0.43
2:M:545:ASN:OD1	2:M:905:ILE:CG1	2.66	0.43
2:C:710:ILE:HG21	2:C:756:VAL:HG11	2.01	0.43
3:N:820:GLU:HG2	3:N:825:ALA:O	2.19	0.43
3:N:829:VAL:H	3:N:835:SER:HB2	1.84	0.43
2:M:395:LYS:CE	2:M:403:SER:HB2	2.49	0.43
5:R:17:DG:H2'	5:R:18:DC:H6	1.82	0.43
3:I:914:LEU:HD23	3:I:914:LEU:O	2.19	0.43
2:H:512:ARG:CG	2:H:523:ILE:CD1	2.96	0.43
3:I:1434:TRP:C	3:I:1434:TRP:CD1	2.91	0.43
7:Y:123:SER:O	7:Y:127:LYS:N	2.48	0.43
3:I:1353:GLN:HB3	3:I:1357:ARG:NE	2.34	0.43
3:D:38:LYS:HA	3:D:39:PRO:HD3	1.89	0.43
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.50	0.43
3:D:1198:TYR:OH	3:D:1394:VAL:HG21	2.18	0.43
3:N:1020:LEU:HA	3:N:1020:LEU:HD12	1.81	0.43
3:D:1346:ARG:HD2	3:D:1346:ARG:HA	1.84	0.43
7:Z:82:VAL:HG22	7:Z:133:ARG:HH21	1.83	0.43
1:G:149:GLY:O	1:G:171:PHE:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:159:ARG:HH22	2:H:218:VAL:HG21	1.83	0.43
2:H:223:ASP:OD1	2:H:224:GLU:N	2.50	0.43
2:C:205:GLU:HG3	2:C:206:THR:H	1.83	0.43
2:M:363:SER:HB2	2:M:366:SER:HB2	2.01	0.43
3:D:87:ARG:HB3	3:D:523:ASP:HB3	1.81	0.43
2:M:431:HIS:CG	2:M:432:ARG:N	2.87	0.43
2:H:1105:LYS:O	2:H:1107:ASN:N	2.51	0.43
3:N:153:LEU:HD12	3:N:153:LEU:O	2.18	0.43
1:G:80:LEU:HD23	3:I:867:ARG:HE	1.84	0.43
2:M:223:ASP:OD1	2:M:224:GLU:N	2.49	0.43
2:C:588:VAL:HG13	2:C:666:LEU:HB2	2.01	0.43
3:I:101:HIS:O	3:I:105:VAL:HG23	2.18	0.43
3:N:93:ILE:HG21	3:N:548:ILE:HD13	2.01	0.43
2:H:101:ILE:HD12	2:H:108:ILE:HD13	1.99	0.43
3:D:1366:LYS:O	3:D:1370:ILE:HG13	2.19	0.43
2:H:899:GLN:HG3	2:H:901:TYR:CZ	2.54	0.43
3:I:204:LEU:CD1	3:I:441:ARG:NH2	2.77	0.43
1:B:198:ARG:O	1:B:199:ILE:HD13	2.19	0.43
1:F:68:ILE:HA	1:F:69:PRO:HD3	1.86	0.43
2:M:862:PRO:CG	2:M:925:TYR:OH	2.67	0.43
1:A:124:ASN:ND2	1:A:127:LEU:CD2	2.82	0.43
3:D:1217:ILE:HB	3:D:1480:PHE:CD2	2.53	0.43
1:L:56:VAL:CG1	1:L:57:TYR:N	2.81	0.43
2:H:957:LYS:CD	2:H:961:GLU:CB	2.95	0.43
3:N:1384:PRO:HB3	3:N:1387:SER:O	2.19	0.43
3:D:820:GLU:HG2	3:D:825:ALA:O	2.19	0.43
1:B:226:SER:O	1:B:228:PRO:HD3	2.18	0.43
3:N:1437:ALA:HB3	3:N:1446:VAL:CG1	2.49	0.43
3:N:1447:LEU:N	3:N:1447:LEU:HD12	2.34	0.43
7:Z:123:SER:O	7:Z:127:LYS:N	2.49	0.43
3:D:695:ILE:O	3:D:696:HIS:C	2.57	0.43
3:I:829:VAL:O	3:I:831:GLY:N	2.52	0.43
2:H:1040:LEU:O	2:H:1041:GLU:C	2.56	0.43
2:C:554:ASP:HB2	3:D:1061:PHE:HE2	1.82	0.43
2:C:428:ARG:HG2	2:C:451:LEU:HG	2.01	0.43
3:I:1120:VAL:HG23	3:I:1188:VAL:HG11	2.00	0.43
3:I:564:GLU:O	3:I:566:ILE:N	2.52	0.43
3:I:1293:PHE:HE2	3:I:1300:SER:HG	1.63	0.43
3:D:757:ALA:O	3:D:761:ILE:HG12	2.18	0.43
3:D:1152:GLU:CG	3:D:1161:GLU:HA	2.49	0.43
2:C:630:ARG:HD3	2:C:705:ILE:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:931:GLY:O	2:H:933:GLY:N	2.51	0.43
3:D:1377:LYS:CG	3:D:1377:LYS:O	2.67	0.43
1:G:81:ASN:O	1:G:84:GLU:HB3	2.19	0.43
3:D:42:ASP:H	3:D:46:ASP:HB2	1.83	0.43
2:H:182:VAL:O	2:H:192:PRO:HA	2.19	0.43
3:I:517:VAL:HG21	3:I:547:LEU:HD21	2.00	0.43
2:M:679:PHE:O	3:N:943:THR:HG22	2.18	0.43
3:D:127:LEU:C	3:D:127:LEU:HD12	2.39	0.43
3:D:127:LEU:HD12	3:D:128:TYR:N	2.34	0.43
2:H:603:VAL:HA	2:H:613:VAL:CG1	2.19	0.43
2:M:224:GLU:HB2	2:M:228:ALA:HB2	2.01	0.43
1:B:30:ARG:NH1	2:C:692:GLU:OE2	2.52	0.43
3:N:26:VAL:HG23	3:N:548:ILE:HD11	1.99	0.43
3:D:162:ARG:O	3:D:450:TYR:O	2.37	0.43
3:I:1047:LYS:HZ2	3:I:1053:PHE:HA	1.82	0.43
1:B:198:ARG:H	1:B:198:ARG:HG2	1.61	0.43
1:B:197:LEU:HD21	1:B:199:ILE:CG1	2.49	0.43
2:M:344:PHE:CE2	2:M:378:LEU:HD21	2.53	0.43
3:I:156:GLU:O	3:I:160:GLU:HB2	2.18	0.43
3:I:703:ASN:HD22	3:I:704:ARG:H	1.67	0.43
2:M:861:LEU:CD2	2:M:862:PRO:HD2	2.48	0.43
2:M:654:LEU:CD1	2:M:663:ASN:O	2.67	0.43
3:D:850:LEU:HA	3:D:853:VAL:CG2	2.49	0.43
3:N:1437:ALA:HB3	3:N:1446:VAL:HG13	2.01	0.43
3:N:757:ALA:O	3:N:761:ILE:HG12	2.19	0.43
2:H:135:VAL:CG1	2:H:407:LYS:HA	2.41	0.43
3:N:511:TRP:O	3:N:513:ILE:N	2.52	0.43
3:I:800:LYS:HD3	3:I:830:ALA:HB3	2.00	0.43
3:D:1273:VAL:CG2	3:D:1305:LEU:HD21	2.47	0.43
3:N:1061:PHE:CE1	3:N:1065:LEU:HD22	2.41	0.43
2:H:584:GLU:CD	2:H:584:GLU:H	2.21	0.43
3:N:1281:VAL:CG1	3:N:1282:ARG:N	2.81	0.43
1:K:62:LEU:N	1:K:62:LEU:CD1	2.76	0.43
2:M:1034:GLU:CD	3:N:1096:ARG:NH2	2.72	0.43
2:H:325:ILE:H	2:H:325:ILE:CD1	2.32	0.43
3:D:1293:PHE:O	3:D:1295:GLU:OE2	2.35	0.43
2:C:42:VAL:O	2:C:43:GLY:C	2.57	0.43
2:M:928:LYS:HZ3	2:M:932:GLU:HG3	1.82	0.43
2:H:229:MET:HB3	2:H:230:ARG:HH12	1.84	0.43
3:I:1117:TYR:CD2	3:I:1117:TYR:N	2.84	0.43
3:D:53:ILE:HG13	3:D:53:ILE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z:31:LYS:O	7:Z:35:GLU:HG2	2.19	0.43
2:C:211:LEU:HD21	2:C:311:PHE:CE1	2.54	0.43
3:I:99:ALA:HA	3:I:575:GLN:HE22	1.84	0.43
2:C:1095:LEU:CD1	2:C:1097:LEU:H	2.24	0.43
3:N:682:ASP:OD2	3:N:682:ASP:O	2.36	0.43
3:N:177:ALA:HA	3:N:192:ALA:HA	2.01	0.43
2:M:703:ILE:HD12	2:M:703:ILE:N	2.33	0.43
3:I:511:TRP:C	3:I:513:ILE:H	2.20	0.43
3:N:1209:LEU:HD21	4:O:16:LYS:HZ2	1.74	0.43
1:L:74:ASP:CG	3:N:872:ARG:NH2	2.72	0.43
3:D:1254:GLN:HB2	3:D:1255:GLY:H	1.64	0.43
2:H:328:LEU:N	2:H:328:LEU:HD12	2.33	0.43
3:I:204:LEU:CB	3:I:394:LEU:O	2.66	0.43
3:I:29:PRO:HG3	3:I:549:ASN:ND2	2.34	0.43
2:H:443:THR:HA	2:H:444:PRO:HD3	1.68	0.43
3:N:766:ALA:CB	4:O:2:ALA:HB2	2.48	0.43
2:H:336:VAL:HA	2:H:339:LEU:HD12	2.01	0.43
1:A:35:THR:CG2	1:B:43:ILE:HD11	2.35	0.43
1:K:35:THR:O	1:K:35:THR:HG22	2.18	0.43
1:L:226:SER:O	1:L:228:PRO:HD3	2.18	0.43
2:H:654:LEU:CD1	2:H:663:ASN:O	2.67	0.43
2:M:1105:LYS:O	2:M:1107:ASN:N	2.51	0.43
3:N:1366:LYS:O	3:N:1370:ILE:HG13	2.19	0.43
7:X:75:LEU:HB3	7:X:77:GLU:OE2	2.18	0.43
2:H:551:GLU:O	3:I:1065:LEU:HB3	2.19	0.43
2:C:1044:GLY:HA2	3:D:1475:GLY:CA	2.48	0.43
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.84	0.43
2:M:471:TYR:O	2:M:483:VAL:HG13	2.19	0.43
3:I:1488:ASP:N	3:I:1488:ASP:OD1	2.51	0.43
3:N:851:LEU:H	3:N:851:LEU:HG	1.47	0.43
2:M:603:VAL:HG11	2:M:606:VAL:HG13	2.01	0.43
2:C:674:VAL:HG23	2:C:869:VAL:O	2.17	0.43
2:H:229:MET:HB2	2:H:230:ARG:NH1	2.34	0.43
2:C:393:GLN:HE21	2:C:393:GLN:HB2	1.62	0.43
1:K:189:ARG:HA	1:K:189:ARG:HD2	1.84	0.43
3:D:1020:LEU:HA	3:D:1020:LEU:HD12	1.81	0.43
3:I:50:PHE:CA	3:I:89:ARG:HG2	2.48	0.43
2:C:251:ASP:O	2:C:252:LYS:C	2.56	0.43
2:C:293:PHE:HA	2:C:298:PHE:HD2	1.83	0.43
3:D:687:VAL:CG1	3:D:688:TRP:N	2.82	0.43
2:M:99:GLN:CA	2:M:109:LYS:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:99:GLN:HB3	2:M:110:GLU:HA	2.01	0.43
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.33	0.43
3:D:1437:ALA:HB3	3:D:1446:VAL:HG11	2.00	0.43
3:D:52:PRO:O	3:D:86:ARG:CG	2.66	0.43
2:M:333:ILE:CG2	2:M:410:ILE:HD11	2.49	0.43
2:M:487:THR:O	2:M:488:ALA:C	2.57	0.43
2:C:988:VAL:CG1	3:D:948:THR:OG1	2.63	0.43
3:N:158:TYR:CE1	3:N:452:ILE:HD11	2.54	0.43
2:H:333:ILE:N	2:H:333:ILE:CD1	2.80	0.43
2:M:185:LYS:HG2	2:M:190:LYS:CG	2.48	0.43
3:I:649:ALA:O	3:I:650:LEU:C	2.57	0.43
3:I:511:TRP:O	3:I:513:ILE:N	2.52	0.43
1:L:198:ARG:O	1:L:199:ILE:HD13	2.18	0.43
3:D:1424:VAL:HG13	3:D:1425:THR:H	1.83	0.43
2:H:431:HIS:CG	2:H:432:ARG:N	2.87	0.43
4:E:14:ASP:OD1	4:E:18:ARG:NH2	2.51	0.43
1:F:18:ARG:HH12	1:F:88:ARG:CZ	2.32	0.43
1:F:206:THR:HG23	1:F:208:LEU:N	2.34	0.43
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.83	0.43
3:D:1108:ARG:HH11	3:D:1108:ARG:HG3	1.83	0.43
2:M:274:ARG:HG2	2:M:274:ARG:HH11	1.83	0.43
2:C:939:ARG:NE	2:C:939:ARG:CA	2.79	0.43
2:C:71:TYR:O	2:C:71:TYR:CG	2.71	0.43
3:I:906:GLN:HB3	3:I:911:LEU:CD1	2.45	0.43
2:C:351:LEU:HD13	2:C:374:ASN:ND2	2.34	0.43
1:L:161:ARG:HH11	1:L:161:ARG:HG3	1.84	0.43
1:A:92:PRO:C	1:A:94:LEU:N	2.73	0.43
3:N:1437:ALA:C	3:N:1439:SER:N	2.71	0.43
3:D:970:LYS:HG2	3:D:995:LEU:CD1	2.48	0.43
3:N:465:LEU:HD11	3:N:512:MET:HB2	2.00	0.43
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.53	0.43
3:I:835:SER:O	3:I:836:VAL:C	2.58	0.43
3:N:881:LEU:O	3:N:885:ILE:HG12	2.18	0.43
1:G:152:PRO:HG2	3:I:857:ILE:CD1	2.48	0.43
3:I:850:LEU:HA	3:I:853:VAL:CG2	2.49	0.43
2:H:580:MET:O	2:H:903:SER:N	2.51	0.43
3:D:54:LYS:HE3	3:D:55:ASP:OD1	2.18	0.43
2:M:343:GLN:NE2	2:M:343:GLN:HA	2.32	0.43
2:C:717:LEU:HB3	2:C:761:PHE:CD2	2.54	0.43
2:C:1048:THR:HG21	3:D:763:MET:HE3	2.00	0.43
3:I:1299:PHE:N	3:I:1299:PHE:CD2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:15:LEU:O	2:M:586:ARG:NH2	2.52	0.43
2:H:1051:GLU:HG2	2:H:1055:LEU:HD12	2.01	0.43
2:M:518:LYS:HB2	2:M:518:LYS:HE2	1.73	0.43
2:M:1050:GLN:CA	2:M:1050:GLN:HE21	2.32	0.43
1:G:153:ALA:HB2	1:G:168:ASP:N	2.33	0.43
2:C:972:VAL:HG23	2:C:973:VAL:N	2.33	0.43
3:D:160:GLU:HB3	3:D:161:LEU:HD12	2.01	0.42
3:I:89:ARG:O	3:I:521:PRO:HB3	2.18	0.42
2:C:437:ARG:CZ	2:C:488:ALA:HA	2.50	0.42
3:I:153:LEU:HD12	3:I:153:LEU:O	2.19	0.42
3:D:649:ALA:O	3:D:650:LEU:C	2.57	0.42
2:M:364:GLU:O	2:M:367:LEU:CG	2.60	0.42
2:M:679:PHE:C	3:N:943:THR:HG22	2.40	0.42
2:M:88:LEU:HD22	2:M:814:GLU:CG	2.39	0.42
2:M:571:LEU:HD21	2:M:700:TYR:HA	2.00	0.42
3:N:101:HIS:O	3:N:105:VAL:HG23	2.18	0.42
2:H:1097:LEU:CD2	3:I:1447:LEU:HB3	2.46	0.42
2:C:886:LEU:HA	2:C:886:LEU:HD12	1.39	0.42
2:M:899:GLN:HG3	2:M:901:TYR:CZ	2.54	0.42
7:Z:102:VAL:HG13	7:Z:103:GLN:N	2.34	0.42
2:H:879:ARG:NE	7:Y:42:ASP:CG	2.72	0.42
1:G:197:LEU:HD21	1:G:199:ILE:CG1	2.49	0.42
2:M:837:ASP:O	2:M:848:VAL:HG13	2.19	0.42
2:H:862:PRO:CG	2:H:925:TYR:OH	2.67	0.42
3:D:829:VAL:H	3:D:835:SER:HB2	1.84	0.42
3:D:835:SER:O	3:D:836:VAL:C	2.58	0.42
3:N:926:LYS:NZ	3:N:929:ARG:HH12	2.17	0.42
3:N:835:SER:O	3:N:836:VAL:C	2.58	0.42
3:D:469:ASP:O	3:D:470:LEU:C	2.57	0.42
3:D:914:LEU:O	3:D:914:LEU:HD23	2.19	0.42
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.49	0.42
1:F:186:LEU:CD2	1:F:187:GLY:N	2.77	0.42
1:G:111:ALA:HB3	1:G:124:ASN:O	2.19	0.42
2:M:178:PRO:C	2:M:180:GLY:N	2.72	0.42
2:M:512:ARG:HG2	2:M:523:ILE:CD1	2.49	0.42
3:I:1486:VAL:HG11	4:J:22:VAL:HG13	2.00	0.42
3:D:584:ASN:HD21	3:D:590:PRO:HG2	1.83	0.42
2:H:154:ARG:HH12	2:H:178:PRO:HD2	1.83	0.42
4:J:53:GLY:C	4:J:55:PHE:N	2.72	0.42
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.34	0.42
1:K:218:LEU:HD23	1:L:222:LEU:CD2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:251:ASP:O	2:H:253:ALA:N	2.51	0.42
2:H:724:ARG:HG3	2:H:737:LEU:HD22	2.01	0.42
2:H:84:ARG:HH11	2:H:84:ARG:HG3	1.84	0.42
3:I:84:ILE:O	3:I:84:ILE:HG12	2.12	0.42
3:I:873:LEU:HA	3:I:873:LEU:HD23	1.82	0.42
3:N:1346:ARG:HD2	3:N:1346:ARG:HA	1.84	0.42
2:C:385:PHE:HD1	2:C:389:SER:HB2	1.84	0.42
2:M:644:VAL:HG22	2:M:647:GLN:OE1	2.19	0.42
3:I:1436:SER:O	3:I:1439:SER:HB2	2.19	0.42
3:D:185:VAL:CG1	3:D:186:VAL:N	2.82	0.42
3:I:783:ARG:HA	3:I:1028:ALA:HA	2.00	0.42
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.49	0.42
2:C:289:THR:C	2:C:291:ALA:N	2.72	0.42
2:C:295:ASP:C	2:C:297:GLU:H	2.21	0.42
3:D:10:ILE:HD12	3:D:1434:TRP:CE2	2.55	0.42
2:H:1086:ARG:NH2	3:I:88:TYR:CZ	2.87	0.42
2:M:162:ILE:O	2:M:164:PRO:HD3	2.18	0.42
2:M:487:THR:HB	2:M:490:GLU:HG3	2.00	0.42
1:G:133:GLU:CG	1:G:134:GLU:H	2.25	0.42
2:H:272:ALA:O	2:H:464:LEU:CD2	2.67	0.42
2:C:691:SER:C	2:C:693:GLU:N	2.72	0.42
1:K:21:GLY:O	1:K:23:PHE:CE2	2.72	0.42
1:L:197:LEU:HD21	1:L:199:ILE:CG1	2.49	0.42
3:D:1258:ARG:HG3	3:D:1258:ARG:NH1	2.34	0.42
3:D:1375:MET:C	3:D:1376:MET:HG3	2.40	0.42
7:Z:102:VAL:HG11	7:Z:125:MET:HE2	1.98	0.42
2:H:39:ARG:HB2	2:H:45:GLN:HE22	1.78	0.42
2:H:96:ALA:O	2:H:98:LEU:CD1	2.68	0.42
3:I:926:LYS:NZ	3:I:929:ARG:HH12	2.17	0.42
3:N:384:VAL:HG12	3:N:385:VAL:N	2.34	0.42
1:K:109:VAL:HG21	1:K:138:LEU:HD23	2.01	0.42
3:I:1481:VAL:O	3:I:1483:PHE:N	2.51	0.42
3:I:1256:LEU:HG	3:I:1260:ILE:CD1	2.41	0.42
3:N:695:ILE:O	3:N:696:HIS:C	2.58	0.42
4:E:25:LYS:O	4:E:28:GLN:HB2	2.19	0.42
3:D:511:TRP:O	3:D:513:ILE:N	2.52	0.42
1:B:25:LEU:HD23	1:B:25:LEU:O	2.19	0.42
2:H:358:ARG:HH22	2:H:374:ASN:CB	2.32	0.42
3:I:829:VAL:H	3:I:835:SER:HB2	1.84	0.42
3:N:829:VAL:O	3:N:831:GLY:N	2.52	0.42
2:C:583:LEU:N	2:C:583:LEU:HD12	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.19	0.42
3:N:850:LEU:HA	3:N:853:VAL:CG2	2.49	0.42
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.42
2:C:754:ILE:N	2:C:754:ILE:CD1	2.71	0.42
3:N:469:ASP:O	3:N:470:LEU:C	2.57	0.42
1:K:101:LEU:HD12	1:K:113:ASP:O	2.18	0.42
1:K:107:LYS:HG2	1:K:108:GLU:N	2.34	0.42
1:F:107:LYS:HG2	1:F:108:GLU:N	2.34	0.42
1:B:170:VAL:HG11	3:D:848:GLU:OE2	2.19	0.42
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.49	0.42
2:C:512:ARG:HG2	2:C:523:ILE:CD1	2.50	0.42
2:H:512:ARG:HG2	2:H:523:ILE:CD1	2.49	0.42
1:G:122:ILE:H	1:G:122:ILE:HD12	1.82	0.42
3:I:705:ALA:HB3	3:I:706:PRO:CD	2.49	0.42
3:D:1232:PRO:HB2	3:D:1356:TYR:HE2	1.82	0.42
3:I:1487:VAL:CG1	3:I:1488:ASP:N	2.82	0.42
1:A:189:ARG:HG2	1:A:189:ARG:NH1	2.33	0.42
2:C:146:VAL:HG11	2:C:281:LEU:HD11	2.01	0.42
2:H:239:PHE:HZ	2:H:252:LYS:O	2.01	0.42
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.20	0.42
3:I:1105:ILE:N	3:I:1105:ILE:CD1	2.81	0.42
2:C:25:SER:O	2:C:29:ALA:HB2	2.19	0.42
1:G:128:HIS:HE1	1:G:131:THR:HG23	1.83	0.42
2:M:640:ARG:HG2	2:M:640:ARG:HH11	1.83	0.42
4:J:43:GLU:O	4:J:44:GLU:CB	2.67	0.42
4:J:86:GLN:O	4:J:90:GLU:HG3	2.18	0.42
2:H:1082:PRO:O	2:H:1085:PHE:N	2.48	0.42
3:I:787:LEU:HD21	3:I:947:ILE:HD13	2.00	0.42
2:C:431:HIS:CD2	2:C:433:THR:H	2.37	0.42
2:M:367:LEU:H	2:M:367:LEU:HG	1.68	0.42
2:M:39:ARG:HD2	2:M:71:TYR:HE2	1.85	0.42
3:D:1437:ALA:HB3	3:D:1446:VAL:HG13	2.01	0.42
3:D:87:ARG:O	3:D:524:LEU:CD1	2.68	0.42
2:M:121:MET:HE3	2:M:125:GLY:O	2.19	0.42
3:N:178:LEU:CD1	3:N:191:LEU:HA	2.48	0.42
3:N:133:ILE:CG2	3:N:134:VAL:N	2.82	0.42
3:N:137:PRO:HG3	3:N:453:ASP:HB2	1.99	0.42
3:I:1258:ARG:HE	3:I:1262:LEU:HD22	1.84	0.42
1:K:83:LYS:NZ	2:M:698:ASP:OD2	2.51	0.42
2:H:273:GLY:HA2	2:H:276:LYS:CD	2.49	0.42
2:H:572:ILE:CD1	2:H:573:ARG:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1094:LEU:HG	3:D:1098:LEU:HD11	2.01	0.42
2:C:1074:GLU:CG	2:C:1075:ASP:H	2.05	0.42
2:M:242:LEU:HD11	2:M:254:VAL:CG1	2.35	0.42
2:H:42:VAL:O	2:H:43:GLY:O	2.37	0.42
2:C:1032:PHE:HZ	2:C:1040:LEU:HD13	1.84	0.42
3:N:1084:THR:CB	3:N:1087:ARG:NH1	2.82	0.42
3:N:379:ALA:C	3:N:380:GLU:HG3	2.39	0.42
3:D:703:ASN:HD22	3:D:704:ARG:H	1.67	0.42
1:A:109:VAL:HG21	1:A:138:LEU:HD23	2.01	0.42
3:N:649:ALA:O	3:N:650:LEU:C	2.57	0.42
3:I:554:LEU:HD22	3:I:574:LEU:HD22	2.01	0.42
2:M:654:LEU:HD13	2:M:663:ASN:O	2.19	0.42
1:A:206:THR:HG23	1:A:208:LEU:N	2.34	0.42
3:N:1442:ASN:HD22	3:N:1445:HIS:HB2	1.84	0.42
2:H:693:GLU:HG2	2:H:697:ARG:HH21	1.84	0.42
3:D:621:LYS:HD3	3:D:621:LYS:HA	1.79	0.42
3:N:860:LEU:HD22	3:N:878:GLY:CA	2.49	0.42
3:N:1491:THR:HA	3:N:1494:ALA:CB	2.50	0.42
3:N:1372:VAL:HG13	3:N:1373:ARG:N	2.34	0.42
3:D:1312:LEU:HA	3:D:1312:LEU:HD23	1.87	0.42
1:K:144:VAL:HG12	1:K:145:ASP:N	2.35	0.42
4:O:68:LEU:HA	4:O:73:LEU:HD13	2.01	0.42
2:C:12:VAL:HB	2:C:472:ARG:HH11	1.84	0.42
2:M:512:ARG:CG	2:M:523:ILE:CD1	2.96	0.42
3:N:1135:ARG:O	3:N:1140:ILE:HD11	2.19	0.42
4:E:62:THR:O	4:E:66:LYS:HB2	2.19	0.42
3:N:1353:GLN:HB3	3:N:1357:ARG:NE	2.34	0.42
2:C:836:GLY:O	2:C:848:VAL:HG13	2.19	0.42
3:I:1401:GLU:OE2	3:I:1402:ALA:N	2.52	0.42
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.49	0.42
1:K:198:ARG:NH2	2:M:934:PHE:CD1	2.87	0.42
3:N:1129:THR:HG23	3:N:1130:ARG:N	2.34	0.42
3:D:546:ARG:CG	3:D:546:ARG:NH1	2.82	0.42
3:N:1310:ARG:HD3	3:N:1310:ARG:HA	1.88	0.42
2:H:1109:VAL:HG11	3:I:5:VAL:HG13	2.02	0.42
1:G:97:VAL:HG11	1:G:120:VAL:HG21	2.01	0.42
3:I:643:GLY:N	3:I:727:GLN:O	2.50	0.42
2:C:205:GLU:O	2:C:209:ARG:HD2	2.19	0.42
2:C:195:LEU:CG	2:C:238:LEU:HG	2.44	0.42
2:C:431:HIS:CG	2:C:432:ARG:N	2.87	0.42
2:M:65:VAL:O	2:M:101:ILE:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:127:LEU:HD22	3:D:134:VAL:CG1	2.48	0.42
2:H:124:ASP:HA	2:H:592:LEU:HG	2.01	0.42
2:M:1090:LYS:CD	3:N:90:MET:SD	3.08	0.42
3:N:199:LEU:CD2	3:N:200:ASP:H	2.33	0.42
3:N:199:LEU:HG	3:N:200:ASP:H	1.84	0.42
3:I:1258:ARG:HH21	3:I:1351:GLU:HG2	1.83	0.42
3:I:1254:GLN:HG3	3:I:1355:VAL:HG13	2.01	0.42
3:I:1363:LEU:H	3:I:1363:LEU:HD23	1.84	0.42
2:H:260:LEU:HD23	2:H:261:ILE:HA	2.01	0.42
2:H:345:ARG:HA	2:H:348:LEU:HB2	2.01	0.42
2:M:184:MET:O	2:M:191:PHE:CD1	2.72	0.42
2:H:573:ARG:CB	2:H:670:GLN:NE2	2.83	0.42
2:C:585:GLU:O	2:C:588:VAL:CG2	2.67	0.42
3:N:93:ILE:HG22	3:N:551:ASN:HD22	1.84	0.42
4:E:35:PHE:C	4:E:36:LYS:NZ	2.72	0.42
1:B:185:ARG:HD3	3:D:692:GLU:CG	2.49	0.42
2:H:48:PHE:CE2	2:H:71:TYR:HB3	2.54	0.42
3:D:925:GLU:OE1	4:E:6:ILE:HG22	2.20	0.42
1:F:109:VAL:HG21	1:F:138:LEU:HD23	2.01	0.42
2:M:836:GLY:O	2:M:848:VAL:HG13	2.19	0.42
3:N:1384:PRO:HB3	3:N:1388:ARG:HH12	1.85	0.42
2:H:294:GLU:HG3	2:H:295:ASP:OD2	2.19	0.42
2:M:588:VAL:HG11	2:M:661:SER:HB2	2.01	0.42
3:D:820:GLU:HG3	3:D:836:VAL:CG2	2.49	0.42
4:O:47:LYS:HA	4:O:54:LEU:CB	2.45	0.42
1:G:25:LEU:O	1:G:25:LEU:HD23	2.19	0.42
2:C:395:LYS:HE3	2:C:407:LYS:HE3	2.01	0.42
1:B:106:PRO:CG	1:B:134:GLU:OE2	2.68	0.42
3:N:820:GLU:HG3	3:N:836:VAL:CG2	2.49	0.42
3:D:1305:LEU:HD12	3:D:1309:ALA:CB	2.49	0.42
3:D:1292:VAL:HG22	3:D:1311:LEU:HD13	2.00	0.42
4:O:45:ARG:NH2	4:O:55:PHE:O	2.52	0.42
3:N:470:LEU:CB	3:N:503:LEU:HD21	2.44	0.42
3:I:1278:ASP:HA	3:I:1319:VAL:O	2.20	0.42
3:I:1434:TRP:HZ3	3:I:1457:ASP:N	2.17	0.42
3:I:546:ARG:NH1	3:I:550:ARG:NH2	2.65	0.42
2:H:360:LEU:H	2:H:360:LEU:CD2	2.30	0.42
3:N:963:TYR:CE2	3:N:1002:LYS:HD3	2.55	0.42
3:D:963:TYR:CE2	3:D:1002:LYS:HD3	2.55	0.42
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.83	0.42
3:N:572:ARG:O	3:N:573:MET:C	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:97:THR:CB	3:D:571:LYS:HE2	2.49	0.42
3:N:801:GLY:O	3:N:802:ALA:HB2	2.19	0.42
3:I:1377:LYS:O	3:I:1377:LYS:CG	2.67	0.42
3:N:667:ALA:HA	3:N:668:PRO:HD3	1.83	0.42
3:D:471:GLU:H	3:D:471:GLU:HG2	1.54	0.42
4:J:60:ALA:O	4:J:63:TRP:HB2	2.20	0.42
2:C:254:VAL:HA	2:C:257:VAL:HG23	2.01	0.42
3:D:127:LEU:C	3:D:127:LEU:CD1	2.88	0.42
3:D:99:ALA:CB	3:D:575:GLN:OE1	2.61	0.42
2:M:487:THR:O	2:M:490:GLU:N	2.53	0.42
2:M:1083:GLU:O	2:M:1087:VAL:HB	2.19	0.42
2:C:557:ARG:HH21	2:C:879:ARG:HE	1.67	0.42
3:N:390:PRO:HB2	3:N:393:ILE:HD11	2.01	0.42
2:H:338:GLU:CA	2:H:341:THR:HG22	2.50	0.42
2:H:140:ILE:CG2	2:H:410:ILE:HD13	2.49	0.42
3:D:139:GLY:HA3	3:D:147:VAL:HG21	2.00	0.42
3:N:1260:ILE:O	3:N:1264:GLU:HB2	2.19	0.42
4:J:24:ALA:O	4:J:25:LYS:C	2.58	0.42
2:C:91:GLN:HB2	2:C:117:HIS:HB3	2.01	0.42
3:N:1327:ARG:HG3	3:N:1328:GLY:N	2.35	0.42
3:I:1305:LEU:HD23	3:I:1305:LEU:N	2.35	0.42
3:I:1327:ARG:HG3	3:I:1328:GLY:N	2.35	0.42
1:G:198:ARG:O	1:G:199:ILE:HD13	2.19	0.42
3:D:704:ARG:CG	3:D:736:PHE:HB3	2.50	0.42
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.49	0.42
1:F:124:ASN:ND2	1:F:127:LEU:CD2	2.82	0.42
3:N:657:LEU:O	3:N:661:MET:HG2	2.19	0.42
2:M:835:VAL:HA	2:M:849:VAL:HG12	2.02	0.42
2:H:1070:ILE:CG2	3:I:655:PRO:HB2	2.49	0.42
3:D:982:PHE:CD1	7:X:125:MET:CE	3.03	0.42
2:M:585:GLU:CD	2:M:585:GLU:O	2.57	0.42
2:H:12:VAL:HG22	2:H:13:ILE:HG23	2.01	0.42
2:M:1046:ALA:HB3	3:N:1476:THR:CB	2.49	0.42
2:H:1038:TRP:O	2:H:1039:ALA:C	2.57	0.42
3:I:1366:LYS:O	3:I:1370:ILE:HG13	2.19	0.42
1:B:124:ASN:N	1:B:125:PRO:CD	2.81	0.42
1:K:223:THR:O	1:K:225:PHE:N	2.52	0.42
2:H:836:GLY:O	2:H:848:VAL:HG13	2.19	0.42
2:C:396:ASP:OD1	2:C:402:SER:OG	2.38	0.42
3:D:887:ALA:HB1	3:D:893:GLU:HG3	2.02	0.42
2:C:64:LEU:HD22	2:C:359:MET:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:449:ILE:HD13	3:N:1082:ALA:N	2.34	0.42
2:C:512:ARG:CG	2:C:523:ILE:CD1	2.96	0.42
2:M:154:ARG:CZ	2:M:178:PRO:HG3	2.49	0.42
3:I:1123:PHE:HD1	3:I:1133:ARG:O	2.03	0.42
7:X:26:LEU:HD13	7:X:58:ILE:HG21	2.00	0.42
7:Z:132:HIS:CD2	7:Z:138:LEU:HD22	2.53	0.42
3:I:1422:MET:HE1	3:I:1427:SER:HA	2.01	0.42
3:N:1401:GLU:OE2	3:N:1402:ALA:N	2.52	0.42
1:K:26:GLU:OE2	1:K:194:LYS:HE3	2.19	0.42
2:C:605:LYS:CB	2:C:610:ARG:HH12	2.33	0.42
7:Z:77:GLU:OE1	7:Z:77:GLU:O	2.37	0.42
1:G:7:LYS:HB3	1:G:7:LYS:HE3	1.70	0.42
3:D:187:LYS:H	3:D:200:ASP:CG	2.23	0.42
2:H:196:LEU:HD22	2:H:303:PHE:CD1	2.54	0.42
3:D:135:LEU:HD23	3:D:135:LEU:HA	1.91	0.42
2:H:1083:GLU:O	2:H:1087:VAL:HB	2.19	0.42
3:I:618:LEU:CD2	3:I:619:LEU:HD23	2.47	0.42
2:H:1086:ARG:NH2	3:I:88:TYR:OH	2.53	0.42
2:M:418:LEU:N	2:M:418:LEU:CD1	2.79	0.42
3:N:134:VAL:HG21	3:N:460:ALA:HB1	2.02	0.42
2:H:260:LEU:C	2:H:260:LEU:CD2	2.81	0.42
2:C:831:ARG:NH1	2:C:1002:GLU:HB2	2.34	0.42
2:C:588:VAL:HG12	2:C:661:SER:HB3	2.01	0.42
3:I:111:LYS:HD3	3:I:1448:THR:HG21	2.02	0.42
3:D:158:TYR:HD1	3:D:162:ARG:HB2	1.82	0.42
1:L:76:VAL:O	1:L:80:LEU:HD13	2.19	0.42
3:I:695:ILE:O	3:I:696:HIS:C	2.57	0.42
4:E:36:LYS:HZ3	4:E:36:LYS:N	2.17	0.42
2:M:897:LEU:HD22	2:M:920:GLN:CG	2.49	0.42
2:H:328:LEU:HD13	2:H:433:THR:CB	2.23	0.42
2:H:437:ARG:CZ	2:H:488:ALA:HA	2.48	0.42
1:F:18:ARG:NH1	1:F:123:MET:CE	2.82	0.42
3:N:1305:LEU:O	3:N:1306:PRO:O	2.38	0.42
2:C:1070:ILE:HG23	3:D:656:PHE:CD1	2.54	0.42
3:D:657:LEU:O	3:D:661:MET:HG2	2.19	0.42
2:C:31:GLN:O	2:C:71:TYR:OH	2.28	0.42
7:Y:7:LEU:N	7:Y:7:LEU:HD23	2.35	0.42
2:H:76:PRO:O	2:H:77:PRO:C	2.57	0.42
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	2.50	0.42
2:C:1019:GLN:HG3	3:D:621:LYS:HD2	2.02	0.42
3:N:434:ARG:HB2	3:N:449:SER:OG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:720:GLU:OE1	2:H:758:ARG:NH1	2.52	0.42
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.34	0.42
3:I:887:ALA:HB1	3:I:893:GLU:HG3	2.01	0.42
7:X:11:GLY:HA3	7:X:109:GLU:OE1	2.19	0.42
3:N:1281:VAL:HG11	3:N:1313:VAL:HG13	2.02	0.42
1:G:122:ILE:CD1	1:G:122:ILE:N	2.77	0.42
2:C:9:ILE:CD1	2:C:907:ASP:CB	2.97	0.42
3:I:1356:TYR:N	3:I:1356:TYR:CD1	2.88	0.42
4:O:59:ASN:HD21	4:O:61:VAL:HG22	1.84	0.42
2:H:640:ARG:HG2	2:H:640:ARG:HH11	1.83	0.42
3:D:464:LEU:HD23	3:D:464:LEU:HA	1.73	0.42
3:D:401:TYR:CD1	3:D:401:TYR:N	2.88	0.42
3:D:1431:THR:O	3:D:1431:THR:HG23	2.20	0.42
3:D:213:VAL:HG12	3:D:384:VAL:O	2.19	0.42
3:D:348:GLN:H	3:D:351:MET:CE	2.32	0.42
2:C:328:LEU:HD21	2:C:434:HIS:HA	2.01	0.42
3:I:123:LEU:CG	3:I:152:LEU:HD21	2.49	0.42
3:D:677:LEU:CD2	3:D:683:ILE:HD11	2.28	0.42
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.49	0.42
2:H:313:LEU:CA	2:H:320:HIS:CE1	3.01	0.42
3:N:169:TYR:CG	3:N:197:SER:HA	2.54	0.42
3:N:397:LYS:HZ3	3:N:448:GLU:CD	2.22	0.42
2:H:603:VAL:HG12	2:H:604:ALA:N	2.34	0.42
2:H:415:PRO:HD2	2:H:418:LEU:HD13	2.00	0.42
2:C:693:GLU:CG	2:C:697:ARG:HH21	2.33	0.42
2:M:274:ARG:O	2:M:277:ALA:HB3	2.19	0.42
2:M:274:ARG:CG	2:M:285:LEU:HD13	2.50	0.42
3:I:631:ILE:CD1	3:I:743:ASP:O	2.53	0.42
1:F:39:PRO:HG3	1:G:39:PRO:CG	2.50	0.42
1:K:78:ILE:CD1	1:K:130:ALA:HB2	2.49	0.42
1:L:212:ASN:O	1:L:215:VAL:CG2	2.54	0.42
3:I:657:LEU:O	3:I:661:MET:HG2	2.19	0.42
3:N:481:MET:HE1	3:N:496:LEU:HD23	2.00	0.42
3:D:978:TYR:C	3:D:980:MET:H	2.23	0.42
2:H:469:THR:CG2	2:H:470:PRO:N	2.83	0.42
2:M:1103:ASP:HB3	2:M:1105:LYS:NZ	2.35	0.42
3:I:820:GLU:HG2	3:I:825:ALA:O	2.18	0.42
3:N:1258:ARG:O	3:N:1262:LEU:HB2	2.19	0.42
3:N:1363:LEU:H	3:N:1363:LEU:HD23	1.84	0.42
3:D:1292:VAL:HG11	3:D:1325:LEU:HG	2.01	0.42
2:C:30:LEU:O	2:C:30:LEU:CD1	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:31:LEU:HD12	4:O:31:LEU:H	1.84	0.42
3:I:1128:VAL:HG22	7:Y:23:ARG:NH2	2.35	0.42
1:A:107:LYS:HG2	1:A:108:GLU:N	2.34	0.42
3:D:922:LEU:N	3:D:922:LEU:CD2	2.75	0.42
2:C:405:ARG:HG3	2:C:442:GLU:OE1	2.19	0.42
3:D:899:LEU:HD13	3:D:914:LEU:CD2	2.50	0.42
2:M:428:ARG:HG2	2:M:451:LEU:HG	2.01	0.42
3:D:827:ILE:H	3:D:827:ILE:CD1	2.28	0.42
3:N:1120:VAL:HG23	3:N:1188:VAL:HG11	2.00	0.42
1:A:170:VAL:CG2	1:A:170:VAL:O	2.63	0.42
3:I:1123:PHE:HE2	3:I:1184:GLN:HG3	1.81	0.42
2:C:371:LYS:HD3	3:I:1317:ASP:OD2	2.20	0.42
2:C:243:ARG:N	2:C:244:PRO:CD	2.83	0.42
3:I:963:TYR:CE2	3:I:1002:LYS:HD3	2.55	0.42
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.50	0.42
2:H:230:ARG:NH1	2:H:230:ARG:HG2	2.34	0.42
7:X:92:GLU:HA	7:X:98:GLU:O	2.19	0.42
3:D:207:PHE:CD1	2:H:283:ILE:HB	2.52	0.42
2:C:170:PRO:CD	2:C:263:ASP:CB	2.90	0.42
2:C:260:LEU:HA	2:C:291:ALA:HB2	2.00	0.42
2:C:328:LEU:HD13	2:C:328:LEU:H	1.85	0.42
2:C:1099:VAL:HA	3:D:9:ARG:O	2.18	0.42
3:I:617:ASN:HB2	3:I:1467:ILE:HG23	2.02	0.42
2:M:83:CYS:HB3	2:M:128:ILE:HG21	2.02	0.42
3:N:189:GLN:NE2	3:N:190:GLU:N	2.57	0.42
2:H:368:THR:CB	2:H:369:PRO:CD	2.98	0.42
4:J:57:ASP:N	4:J:58:PRO:HD3	2.34	0.42
3:D:956:ILE:HD11	3:D:1062:ARG:HB3	2.01	0.42
3:D:956:ILE:CD1	3:D:1062:ARG:HG3	2.49	0.42
2:H:39:ARG:HD3	2:H:45:GLN:OE1	2.20	0.42
2:H:557:ARG:HH21	2:H:879:ARG:HE	1.67	0.42
2:H:838:LYS:NZ	6:S:15:G:O2'	2.53	0.42
3:N:639:LEU:HD12	3:N:640:HIS:H	1.85	0.42
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.49	0.42
3:I:703:ASN:ND2	3:I:704:ARG:H	2.18	0.42
3:I:1481:VAL:HG12	4:J:21:VAL:HG21	2.02	0.42
2:C:31:GLN:HE21	2:C:71:TYR:HH	1.62	0.42
2:H:80:GLN:O	2:H:83:CYS:N	2.52	0.42
2:C:521:PRO:HG3	3:D:1068:LEU:CD2	2.49	0.42
3:N:1437:ALA:O	3:N:1439:SER:N	2.53	0.42
3:D:465:LEU:HD11	3:D:512:MET:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:33:HIS:HE1	4:O:90:GLU:OE2	2.02	0.42
2:M:72:ARG:CZ	2:M:95:TYR:OH	2.67	0.42
3:D:1477:GLY:O	3:D:1478:SER:C	2.57	0.42
2:C:50:GLU:OE2	2:C:345:ARG:HB2	2.20	0.42
2:C:518:LYS:HE2	2:C:518:LYS:HB2	1.73	0.42
2:M:236:ILE:H	2:M:236:ILE:HD13	1.80	0.42
2:C:836:GLY:HA3	2:C:1001:VAL:CG2	2.49	0.42
2:H:722:ILE:CD1	2:H:741:GLY:HA3	2.50	0.42
1:A:32:PHE:HZ	1:B:47:SER:CB	2.33	0.42
3:I:802:ALA:O	3:I:803:GLY:C	2.58	0.42
3:N:1132:LEU:N	3:N:1132:LEU:HD12	2.34	0.42
3:N:1377:LYS:O	3:N:1377:LYS:CG	2.67	0.42
3:D:412:GLY:HA2	3:D:434:ARG:CD	2.49	0.42
2:H:209:ARG:O	2:H:213:ALA:HB2	2.19	0.42
2:H:198:ARG:NH1	2:H:228:ALA:O	2.52	0.42
2:C:184:MET:HE2	2:C:186:VAL:CG1	2.49	0.42
3:N:727:GLN:HB3	3:N:727:GLN:HE21	1.65	0.42
3:D:1442:ASN:ND2	3:D:1445:HIS:H	2.17	0.42
2:C:684:PHE:CG	2:C:685:GLU:N	2.86	0.42
2:M:128:ILE:HG12	2:M:133:ASP:OD1	2.19	0.42
3:N:520:LEU:HD11	3:N:524:LEU:CD2	2.49	0.42
3:N:86:ARG:HG2	3:N:87:ARG:N	2.35	0.42
3:D:785:ILE:CD1	3:D:785:ILE:N	2.51	0.42
3:N:143:ASN:HB2	3:N:161:LEU:HD23	2.01	0.42
3:N:180:LYS:HZ1	3:N:386:HIS:HB3	1.85	0.42
1:G:82:LEU:HD11	1:G:140:MET:HE1	2.01	0.42
2:M:568:ALA:HB2	2:M:995:MET:SD	2.60	0.42
2:C:569:VAL:HA	2:C:570:PRO:HD3	1.93	0.42
3:I:511:TRP:N	3:I:511:TRP:CD2	2.88	0.42
3:I:1031:ASN:HB3	3:I:1034:GLN:HG3	2.02	0.42
3:I:625:TYR:HB3	3:I:749:VAL:CG2	2.47	0.42
1:B:185:ARG:HD3	3:D:692:GLU:HG2	2.01	0.42
3:I:29:PRO:HG3	3:I:549:ASN:HD21	1.85	0.42
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.19	0.42
3:I:1311:LEU:HD23	3:I:1311:LEU:H	1.83	0.42
1:F:111:ALA:HA	1:F:129:ILE:HD11	2.02	0.42
3:I:1477:GLY:O	3:I:1478:SER:C	2.58	0.42
2:C:20:GLU:HG3	2:C:21:ILE:N	2.35	0.42
1:K:92:PRO:C	1:K:94:LEU:N	2.73	0.42
3:N:1437:ALA:HB1	3:N:1446:VAL:HG22	2.01	0.42
1:B:24:VAL:HG13	1:B:196:THR:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:545:ASN:O	2:M:905:ILE:HD11	2.20	0.42
3:N:804:LEU:HB3	3:N:830:ALA:O	2.20	0.42
3:N:885:ILE:HD12	3:N:937:TYR:CZ	2.55	0.42
3:I:469:ASP:O	3:I:470:LEU:C	2.57	0.42
3:N:1146:GLY:CA	3:N:1207:TYR:HB2	2.50	0.42
3:I:93:ILE:HG13	3:I:519:VAL:CG2	2.50	0.42
1:G:172:SER:HA	1:G:173:PRO:HD3	1.92	0.42
2:H:147:TYR:CE2	2:H:330:ASN:HB3	2.55	0.42
2:M:205:GLU:HA	2:M:209:ARG:NH1	2.34	0.42
1:K:30:ARG:HH11	1:K:30:ARG:HG2	1.84	0.42
7:Z:84:GLY:HA2	7:Z:130:LEU:CD1	2.48	0.42
3:N:375:GLU:HG2	3:N:375:GLU:O	2.18	0.42
3:D:1149:LEU:CD2	3:D:1187:PRO:O	2.68	0.42
2:H:1055:LEU:O	2:H:1063:ARG:HB2	2.20	0.42
2:M:353:ARG:HH11	2:M:353:ARG:HG3	1.85	0.42
1:B:159:LYS:H	1:B:159:LYS:HZ2	1.67	0.42
2:C:752:GLY:H	2:C:792:VAL:HB	1.85	0.42
2:H:218:VAL:HA	2:H:221:LEU:CD2	2.50	0.42
2:M:368:THR:HG22	2:M:369:PRO:CD	2.48	0.42
3:D:645:PRO:CD	3:D:726:ILE:HG12	2.45	0.42
2:M:568:ALA:HB1	2:M:668:LEU:HB3	2.02	0.42
2:H:343:GLN:HE21	2:H:343:GLN:CA	2.33	0.42
2:C:568:ALA:HB1	2:C:668:LEU:HB3	2.02	0.42
2:C:691:SER:O	2:C:693:GLU:N	2.53	0.42
2:M:304:LEU:O	2:M:308:ARG:N	2.47	0.42
3:N:116:LEU:CD1	3:N:461:ILE:HG23	2.50	0.42
2:M:1074:GLU:CG	2:M:1075:ASP:N	2.71	0.42
3:D:814:ALA:HB1	3:D:818:ARG:NE	2.34	0.42
2:H:258:TYR:OH	2:H:290:LEU:HD21	2.20	0.42
3:N:1305:LEU:N	3:N:1305:LEU:HD23	2.35	0.42
2:H:54:ILE:HG21	2:H:66:LEU:HB3	2.02	0.42
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.50	0.42
2:M:1094:ALA:CB	3:N:603:LEU:CD1	2.97	0.42
2:M:974:LEU:HA	2:M:974:LEU:HD12	1.88	0.42
7:Y:21:ARG:O	7:Y:25:ARG:HG3	2.19	0.42
2:C:862:PRO:CG	2:C:925:TYR:OH	2.67	0.42
3:I:845:ASN:O	3:I:848:GLU:HB2	2.20	0.42
1:G:67:THR:CB	1:L:159:LYS:HG3	2.50	0.42
3:N:1356:TYR:N	3:N:1356:TYR:CD1	2.88	0.42
4:O:3:GLU:HA	4:O:3:GLU:OE1	2.19	0.42
2:C:1019:GLN:OE1	3:D:621:LYS:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:401:LEU:CD1	2:M:587:VAL:HG11	2.43	0.42
3:I:885:ILE:HD12	3:I:937:TYR:CZ	2.55	0.42
1:F:144:VAL:HG12	1:F:145:ASP:N	2.35	0.42
3:N:922:LEU:CD2	3:N:922:LEU:N	2.75	0.42
2:C:918:LEU:HD23	2:C:968:LEU:HA	2.02	0.42
2:H:837:ASP:O	2:H:848:VAL:HG13	2.19	0.42
2:C:54:ILE:HD12	2:C:355:VAL:HG13	2.01	0.42
2:H:498:GLN:NE2	2:H:498:GLN:CA	2.73	0.42
2:M:175:GLU:HG2	2:M:177:GLU:CD	2.40	0.42
2:H:159:ILE:C	2:H:159:ILE:HD12	2.39	0.42
3:D:1025:GLN:HA	3:D:1025:GLN:NE2	2.35	0.42
2:C:835:VAL:HA	2:C:849:VAL:HG12	2.01	0.42
1:F:185:ARG:NH2	1:F:194:LYS:NZ	2.68	0.42
3:N:975:GLU:HA	3:N:975:GLU:OE1	2.20	0.42
3:I:1155:VAL:HG11	3:I:1177:ALA:CB	2.50	0.42
2:C:927:GLY:HA2	2:C:930:LYS:HD3	2.02	0.42
2:H:644:VAL:HG22	2:H:647:GLN:OE1	2.19	0.42
3:N:1314:LYS:HG3	3:N:1314:LYS:HZ3	1.03	0.42
3:I:131:LYS:O	3:I:132:TYR:C	2.57	0.41
3:I:129:PHE:CD2	3:I:575:GLN:HG2	2.55	0.41
2:M:101:ILE:HG23	2:M:101:ILE:O	2.19	0.41
2:M:911:GLU:OE1	3:N:951:ILE:HG12	2.17	0.41
3:I:12:LEU:HD23	3:I:12:LEU:HA	1.81	0.41
3:I:844:ALA:O	3:I:867:ARG:HB3	2.20	0.41
2:H:140:ILE:HG22	2:H:333:ILE:HG13	2.02	0.41
2:H:141:HIS:CD2	2:H:334:ARG:HD2	2.55	0.41
2:C:670:GLN:HB2	2:C:700:TYR:CE1	2.55	0.41
2:C:831:ARG:NH1	2:C:1000:MET:HG3	2.35	0.41
2:M:258:TYR:CZ	2:M:290:LEU:HD21	2.55	0.41
3:D:451:ASP:O	3:D:452:ILE:HG23	2.20	0.41
3:D:1363:LEU:H	3:D:1363:LEU:HD23	1.84	0.41
3:D:806:PHE:CE1	3:D:813:LEU:CB	2.88	0.41
4:J:26:ARG:NH2	4:J:67:GLU:OE1	2.53	0.41
4:J:26:ARG:HD3	4:J:73:LEU:HD21	2.01	0.41
2:H:557:ARG:NH1	2:H:557:ARG:HG3	2.35	0.41
2:H:879:ARG:CZ	7:Y:42:ASP:OD1	2.68	0.41
3:N:703:ASN:HD22	3:N:704:ARG:H	1.67	0.41
3:I:1305:LEU:O	3:I:1306:PRO:O	2.38	0.41
2:C:1103:ASP:HB3	2:C:1105:LYS:NZ	2.35	0.41
1:K:124:ASN:ND2	1:K:127:LEU:CD2	2.82	0.41
3:D:1287:GLU:CA	3:D:1287:GLU:OE1	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:39:PRO:HG3	1:L:39:PRO:HG3	2.00	0.41
3:D:885:ILE:HD12	3:D:937:TYR:CZ	2.55	0.41
1:G:165:ILE:HA	1:G:166:PRO:HD3	1.82	0.41
2:C:277:ALA:O	2:C:278:GLU:C	2.58	0.41
3:D:970:LYS:HA	3:D:973:GLN:HE21	1.86	0.41
3:D:970:LYS:O	3:D:974:ILE:HG13	2.19	0.41
2:H:701:THR:HA	2:H:831:ARG:O	2.20	0.41
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.79	0.41
3:N:1161:GLU:N	3:N:1161:GLU:OE2	2.53	0.41
4:O:53:GLY:C	4:O:55:PHE:N	2.73	0.41
2:C:754:ILE:CD1	2:C:791:ARG:HH12	2.33	0.41
2:H:918:LEU:HD23	2:H:968:LEU:HA	2.01	0.41
3:N:879:ARG:HH11	3:N:879:ARG:CG	2.33	0.41
2:M:452:ILE:N	2:M:452:ILE:HD12	2.35	0.41
1:A:223:THR:O	1:A:225:PHE:N	2.52	0.41
2:C:348:LEU:HD12	2:C:348:LEU:HA	1.83	0.41
2:C:728:HIS:O	2:C:729:LEU:CD2	2.68	0.41
3:N:1403:LEU:O	3:N:1407:LEU:HD13	2.20	0.41
3:D:1487:VAL:CG2	4:E:79:LEU:HD23	2.50	0.41
2:C:837:ASP:O	2:C:848:VAL:HG13	2.19	0.41
3:N:686:GLU:H	3:N:686:GLU:HG3	1.56	0.41
2:H:742:VAL:CG1	2:H:743:VAL:N	2.83	0.41
3:D:1401:GLU:OE2	3:D:1402:ALA:N	2.52	0.41
3:D:975:GLU:OE1	3:D:975:GLU:HA	2.20	0.41
2:M:708:TYR:N	2:M:708:TYR:CD1	2.88	0.41
2:M:1049:LEU:O	2:M:1053:LEU:HG	2.19	0.41
2:M:688:ILE:HG23	2:M:869:VAL:HG23	2.02	0.41
2:M:539:VAL:O	2:M:539:VAL:HG12	2.19	0.41
2:C:539:VAL:HG12	2:C:539:VAL:O	2.19	0.41
2:M:972:VAL:HG23	2:M:973:VAL:N	2.34	0.41
2:H:972:VAL:HG23	2:H:973:VAL:N	2.33	0.41
3:N:615:ARG:HG3	3:N:619:LEU:CD1	2.50	0.41
1:B:151:VAL:HB	1:B:169:ALA:HB3	2.02	0.41
3:D:1130:ARG:C	3:D:1131:SER:OG	2.58	0.41
3:D:185:VAL:O	3:D:200:ASP:HA	2.20	0.41
2:H:676:ILE:HG23	3:I:948:THR:HB	2.02	0.41
2:H:851:LYS:HG2	2:H:853:LEU:CD1	2.50	0.41
2:H:1084:SER:HB3	3:I:617:ASN:CG	2.33	0.41
2:M:83:CYS:HB3	2:M:88:LEU:O	2.19	0.41
2:H:1103:ASP:HB3	2:H:1105:LYS:NZ	2.35	0.41
3:N:87:ARG:CB	3:N:524:LEU:HD12	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:557:ARG:HG3	2:C:557:ARG:NH1	2.34	0.41
2:C:987:ILE:CD1	3:D:948:THR:HG23	2.49	0.41
3:N:131:LYS:HG2	3:N:456:MET:SD	2.61	0.41
3:I:1258:ARG:HE	3:I:1262:LEU:CD2	2.33	0.41
2:M:573:ARG:CB	2:M:670:GLN:NE2	2.83	0.41
2:M:1095:LEU:HB2	3:N:101:HIS:HE1	1.81	0.41
4:O:22:VAL:H	4:O:22:VAL:HG23	1.60	0.41
2:M:1074:GLU:CG	2:M:1075:ASP:H	2.05	0.41
3:D:1256:LEU:HB3	3:D:1257:PRO:CD	2.46	0.41
2:C:1081:VAL:HB	2:C:1111:ILE:HG22	1.99	0.41
2:C:1090:LYS:CE	3:D:90:MET:SD	3.07	0.41
3:I:704:ARG:CG	3:I:736:PHE:HB3	2.50	0.41
2:M:320:HIS:CD2	2:M:320:HIS:H	2.38	0.41
3:D:926:LYS:NZ	3:D:929:ARG:HH12	2.18	0.41
2:H:1046:ALA:HA	3:I:1472:ILE:CD1	2.51	0.41
3:I:1481:VAL:C	3:I:1483:PHE:N	2.73	0.41
2:H:470:PRO:HB2	2:H:534:VAL:HG21	2.02	0.41
3:D:108:VAL:CB	3:D:109:PRO:CD	2.95	0.41
3:N:925:GLU:O	3:N:928:ALA:HB3	2.20	0.41
2:H:395:LYS:HG2	2:H:397:GLU:CG	2.51	0.41
3:I:1372:VAL:HG13	3:I:1373:ARG:N	2.34	0.41
2:H:754:ILE:CD1	2:H:791:ARG:HH12	2.33	0.41
3:D:1146:GLY:C	3:D:1207:TYR:HB2	2.41	0.41
2:C:452:ILE:N	2:C:452:ILE:HD12	2.36	0.41
1:F:223:THR:O	1:F:225:PHE:N	2.52	0.41
3:I:955:VAL:O	3:I:1039:CYS:HB3	2.20	0.41
1:G:228:PRO:O	1:G:229:GLN:HG3	2.20	0.41
3:N:1278:ASP:HB3	3:N:1321:ALA:N	2.35	0.41
1:A:26:GLU:HB3	1:A:194:LYS:HG3	2.01	0.41
2:C:151:ASP:OD2	2:C:152:PRO:HD2	2.19	0.41
3:N:514:LEU:HD12	3:N:578:VAL:CG1	2.50	0.41
3:D:660:LYS:HA	3:D:660:LYS:CE	2.50	0.41
1:B:101:LEU:HD12	1:B:114:PHE:CA	2.50	0.41
2:M:691:SER:O	2:M:693:GLU:N	2.53	0.41
2:C:706:GLU:CG	2:C:708:TYR:CE1	3.03	0.41
2:M:1050:GLN:HA	2:M:1050:GLN:HE21	1.85	0.41
7:X:124:PRO:O	7:X:140:LEU:HD11	2.19	0.41
2:C:75:GLU:OE1	2:C:75:GLU:HA	2.20	0.41
2:H:340:MET:C	2:H:340:MET:SD	2.98	0.41
2:M:231:PRO:HB2	2:M:232:GLU:H	1.52	0.41
3:D:1014:ASN:C	3:D:1016:PRO:HD3	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:470:PRO:HB2	2:M:534:VAL:HG21	2.01	0.41
3:D:351:MET:HG3	3:D:370:ALA:HB2	2.02	0.41
2:C:184:MET:SD	2:C:191:PHE:CE1	3.13	0.41
2:C:22:GLN:HB3	2:C:121:MET:HE2	2.01	0.41
2:C:252:LYS:O	2:C:255:ALA:HB3	2.20	0.41
2:C:265:ARG:HB3	2:C:267:TYR:CD1	2.55	0.41
3:N:992:ILE:CD1	3:N:1054:GLU:OE2	2.66	0.41
3:D:11:ALA:HB1	3:D:507:ASN:HD22	1.84	0.41
3:D:1434:TRP:O	3:D:1435:LEU:C	2.59	0.41
3:N:672:ALA:O	3:N:676:MET:N	2.49	0.41
2:M:267:TYR:O	2:M:268:ASP:C	2.59	0.41
3:D:632:VAL:CG2	3:D:725:SER:CB	2.99	0.41
3:N:415:VAL:HG12	3:N:416:ALA:N	2.36	0.41
2:M:702:SER:OG	2:M:1000:MET:HE1	2.20	0.41
2:H:266:ARG:HD3	2:H:288:ARG:NE	2.34	0.41
2:M:174:LEU:HD21	2:M:184:MET:HG3	2.01	0.41
3:I:650:LEU:CD1	3:I:688:TRP:HZ3	2.26	0.41
3:D:1330:ILE:CD1	3:D:1347:TYR:OH	2.63	0.41
3:D:919:PHE:HZ	3:D:1211:MET:HA	1.85	0.41
2:C:80:GLN:C	2:C:84:ARG:NH1	2.73	0.41
3:N:703:ASN:ND2	3:N:704:ARG:H	2.18	0.41
3:D:925:GLU:O	3:D:928:ALA:HB3	2.21	0.41
1:A:39:PRO:CG	1:B:39:PRO:HG2	2.43	0.41
2:H:1076:VAL:HA	2:H:1077:PRO:HD3	1.98	0.41
2:H:292:ARG:CB	2:H:299:LYS:HE2	2.50	0.41
1:B:56:VAL:O	1:B:164:ALA:HB1	2.19	0.41
7:X:55:LYS:NZ	7:X:59:GLU:OE2	2.53	0.41
2:C:276:LYS:HA	2:C:280:LYS:CD	2.39	0.41
2:C:276:LYS:CA	2:C:280:LYS:HD2	2.40	0.41
3:I:1288:GLU:HA	3:I:1307:LYS:HD3	2.03	0.41
2:H:500:ASN:HD22	2:H:500:ASN:H	1.60	0.41
1:L:48:ILE:HG22	1:L:173:PRO:HD2	2.01	0.41
3:I:820:GLU:HG3	3:I:836:VAL:CG2	2.49	0.41
4:O:60:ALA:O	4:O:63:TRP:HB2	2.20	0.41
3:I:899:LEU:HD13	3:I:914:LEU:CD2	2.50	0.41
2:M:449:ILE:CG2	3:N:1082:ALA:HA	2.46	0.41
3:D:879:ARG:CG	3:D:879:ARG:HH11	2.33	0.41
3:N:1109:GLU:HG3	3:N:1217:ILE:HD12	2.01	0.41
3:I:660:LYS:HA	3:I:660:LYS:CE	2.50	0.41
3:N:374:GLU:O	3:N:375:GLU:HB3	2.19	0.41
2:C:470:PRO:HB2	2:C:534:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1084:THR:HA	3:I:1087:ARG:HD3	2.02	0.41
2:C:612:VAL:HG22	2:C:622:GLU:HG3	2.02	0.41
3:N:550:ARG:NE	3:N:573:MET:HE2	2.36	0.41
2:C:42:VAL:HB	2:C:43:GLY:H	1.60	0.41
2:M:927:GLY:HA2	2:M:930:LYS:HD3	2.02	0.41
4:O:43:GLU:O	4:O:44:GLU:CB	2.68	0.41
2:H:229:MET:CB	2:H:230:ARG:NH1	2.83	0.41
2:H:539:VAL:HG12	2:H:539:VAL:O	2.19	0.41
3:I:540:LEU:HA	3:I:543:LEU:CD1	2.31	0.41
3:I:783:ARG:HD3	7:Y:41:ASP:OD2	2.20	0.41
2:M:557:ARG:NH1	2:M:557:ARG:HG3	2.34	0.41
2:C:676:ILE:HD12	2:C:871:LEU:HB2	2.03	0.41
3:N:198:ARG:O	3:N:199:LEU:HB2	2.20	0.41
3:N:127:LEU:N	3:N:127:LEU:HD12	2.33	0.41
3:D:479:GLU:C	3:D:483:HIS:HD1	2.21	0.41
2:H:141:HIS:HB3	2:H:418:LEU:CD2	2.46	0.41
2:H:272:ALA:O	2:H:464:LEU:HD21	2.20	0.41
2:C:693:GLU:HG2	2:C:697:ARG:HH21	1.85	0.41
3:D:952:ASP:HA	3:D:1062:ARG:HH11	1.85	0.41
2:C:94:LEU:O	2:C:115:LEU:HG	2.19	0.41
3:I:761:ILE:O	3:I:767:HIS:HD2	2.03	0.41
1:B:122:ILE:H	1:B:122:ILE:CD1	2.11	0.41
2:M:1012:PRO:CD	2:M:1026:GLN:HG2	2.40	0.41
3:D:638:LYS:HD3	3:D:932:ASP:OD1	2.21	0.41
1:A:111:ALA:HA	1:A:129:ILE:HD11	2.02	0.41
3:N:373:PRO:CA	3:N:376:GLU:CD	2.77	0.41
3:N:617:ASN:ND2	3:N:1466:VAL:HG12	2.33	0.41
1:F:92:PRO:C	1:F:94:LEU:N	2.73	0.41
2:H:242:LEU:HD11	2:H:254:VAL:CG1	2.49	0.41
1:L:25:LEU:O	1:L:25:LEU:HD23	2.19	0.41
3:I:1052:THR:HG21	7:Y:57:ARG:HH11	1.86	0.41
4:E:54:LEU:CD2	4:E:58:PRO:HD2	2.43	0.41
2:C:758:ARG:CB	2:C:788:THR:O	2.62	0.41
3:I:834:THR:CA	3:I:838:ARG:HD3	2.51	0.41
1:G:24:VAL:HG13	1:G:196:THR:HG22	2.03	0.41
3:D:1305:LEU:HD12	3:D:1309:ALA:HB1	2.03	0.41
3:N:857:ILE:HA	3:N:857:ILE:HD13	1.83	0.41
1:A:144:VAL:HG12	1:A:145:ASP:N	2.35	0.41
3:I:1375:MET:C	3:I:1376:MET:HG3	2.39	0.41
4:O:63:TRP:O	4:O:64:ALA:C	2.58	0.41
2:C:428:ARG:HG3	2:C:451:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:54:ILE:CD1	2:C:355:VAL:HG13	2.51	0.41
3:N:1488:ASP:C	3:N:1490:LYS:N	2.74	0.41
3:D:403:PHE:HD2	3:D:444:VAL:HG23	1.80	0.41
7:Y:103:GLN:HE21	7:Y:105:VAL:HG11	1.85	0.41
3:D:761:ILE:O	3:D:767:HIS:HD2	2.03	0.41
1:G:101:LEU:HD12	1:G:114:PHE:CA	2.51	0.41
2:C:458:TYR:CB	2:C:470:PRO:HG3	2.50	0.41
2:C:937:ASP:HB3	2:C:940:GLU:HG3	2.02	0.41
1:L:105:GLY:O	1:L:132:LEU:HB3	2.21	0.41
3:D:963:TYR:HD2	3:D:1002:LYS:HD3	1.81	0.41
4:O:37:ASN:HD21	4:O:93:TYR:HB3	1.85	0.41
2:M:742:VAL:CG1	2:M:743:VAL:N	2.83	0.41
2:H:927:GLY:HA2	2:H:930:LYS:HD3	2.02	0.41
3:D:1274:ILE:C	3:D:1274:ILE:HD12	2.41	0.41
2:H:350:ARG:O	2:H:353:ARG:HB3	2.20	0.41
2:M:787:ASP:OD1	2:M:791:ARG:NH2	2.53	0.41
5:P:17:DG:H2'	5:P:18:DC:H6	1.85	0.41
3:I:32:ILE:HG23	3:I:33:ASN:N	2.36	0.41
3:N:1014:ASN:C	3:N:1016:PRO:HD3	2.40	0.41
2:M:706:GLU:HA	2:M:706:GLU:OE2	2.20	0.41
3:I:1014:ASN:C	3:I:1016:PRO:HD3	2.41	0.41
3:I:590:PRO:O	3:I:600:LEU:HD12	2.20	0.41
2:H:677:MET:HA	2:H:678:PRO:HD3	1.89	0.41
2:C:304:LEU:O	2:C:308:ARG:N	2.50	0.41
3:I:514:LEU:HD12	3:I:578:VAL:CG1	2.50	0.41
3:I:99:ALA:O	3:I:514:LEU:O	2.38	0.41
3:N:1029:ARG:NH1	3:N:1029:ARG:HA	2.36	0.41
3:N:185:VAL:O	3:N:200:ASP:OD1	2.39	0.41
3:I:1254:GLN:CG	3:I:1355:VAL:HG13	2.50	0.41
3:D:28:LYS:CG	3:D:29:PRO:CD	2.90	0.41
3:D:991:GLN:OE1	7:X:112:VAL:N	2.51	0.41
3:N:561:GLY:O	3:N:563:PRO:CD	2.65	0.41
7:X:37:MET:HG3	7:X:48:LEU:HD11	2.02	0.41
3:D:1209:LEU:O	3:D:1211:MET:O	2.37	0.41
2:H:328:LEU:HB2	2:H:488:ALA:HB2	2.00	0.41
3:D:844:ALA:O	3:D:867:ARG:HB3	2.20	0.41
3:I:185:VAL:HG21	3:I:203:ALA:HB2	2.02	0.41
3:I:434:ARG:HB2	3:I:449:SER:HG	1.86	0.41
2:H:1070:ILE:HG23	3:I:656:PHE:CD1	2.56	0.41
1:B:142:VAL:HG23	1:B:142:VAL:O	2.21	0.41
1:G:56:VAL:CG1	1:G:57:TYR:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y:91:LEU:N	7:Y:91:LEU:HD23	2.35	0.41
3:N:1471:LEU:HD12	3:N:1471:LEU:HA	1.95	0.41
2:H:17:PRO:O	2:H:20:GLU:HG2	2.20	0.41
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.71	0.41
3:D:573:MET:O	3:D:576:GLU:HB2	2.20	0.41
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.99	0.41
2:M:472:ARG:HH11	2:M:481:ASP:HA	1.86	0.41
3:I:820:GLU:CD	3:I:820:GLU:C	2.79	0.41
3:I:820:GLU:HB2	3:I:836:VAL:HG21	2.03	0.41
3:N:1370:ILE:H	3:N:1370:ILE:HG13	1.59	0.41
3:D:1273:VAL:HG21	3:D:1305:LEU:CD2	2.50	0.41
3:I:857:ILE:HA	3:I:857:ILE:HD13	1.84	0.41
3:D:1146:GLY:HA3	3:D:1207:TYR:CB	2.41	0.41
3:N:908:LYS:CB	3:N:1027:GLY:HA3	2.48	0.41
3:N:793:THR:O	3:N:879:ARG:NH1	2.54	0.41
7:X:11:GLY:CA	7:X:109:GLU:OE1	2.69	0.41
1:F:186:LEU:C	1:F:186:LEU:CD2	2.86	0.41
1:B:58:ILE:HB	1:B:61:VAL:HB	2.03	0.41
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.20	0.41
2:M:343:GLN:HA	2:M:346:VAL:CG2	2.49	0.41
3:N:1155:VAL:CG1	3:N:1177:ALA:CB	2.99	0.41
3:I:693:GLU:CG	4:J:48:MET:HE1	2.50	0.41
1:L:150:TYR:HE1	1:L:170:VAL:HG12	1.85	0.41
3:I:956:ILE:HD11	3:I:1062:ARG:CG	2.50	0.41
2:H:694:LEU:HD11	2:H:868:ASP:HB3	2.02	0.41
1:A:45:LEU:HD11	1:A:177:VAL:CG2	2.51	0.41
3:N:208:PRO:HG3	3:N:353:VAL:CG1	2.50	0.41
2:C:1063:ARG:HE	2:C:1063:ARG:HB3	1.30	0.41
2:H:874:LEU:O	3:I:1029:ARG:HD2	2.20	0.41
3:D:683:ILE:CG2	3:D:683:ILE:O	2.67	0.41
2:M:677:MET:HA	2:M:678:PRO:HD3	1.89	0.41
3:N:632:VAL:CG2	3:N:725:SER:CB	2.99	0.41
3:D:1447:LEU:HD12	3:D:1447:LEU:N	2.35	0.41
2:M:1084:SER:C	2:M:1087:VAL:HG12	2.41	0.41
2:M:575:GLN:O	2:M:667:ALA:HB1	2.21	0.41
2:H:261:ILE:HD12	2:H:262:ALA:N	2.34	0.41
3:N:1434:TRP:HZ3	3:N:1455:LYS:O	2.04	0.41
2:C:573:ARG:CB	2:C:670:GLN:NE2	2.83	0.41
3:I:115:LEU:CD2	3:I:115:LEU:C	2.89	0.41
3:I:510:GLU:O	3:I:513:ILE:CG1	2.63	0.41
1:K:18:ARG:HH11	1:K:123:MET:CE	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:451:ASP:C	3:D:451:ASP:OD1	2.59	0.41
3:D:813:LEU:C	3:D:813:LEU:HD12	2.41	0.41
3:D:1148:VAL:O	3:D:1188:VAL:HG23	2.20	0.41
2:H:39:ARG:O	2:H:40:GLU:O	2.38	0.41
2:H:40:GLU:HG3	2:H:42:VAL:H	1.85	0.41
3:I:639:LEU:HD12	3:I:640:HIS:H	1.85	0.41
1:K:176:ARG:NH1	2:M:865:THR:HB	2.36	0.41
3:D:658:LEU:O	3:D:661:MET:CB	2.68	0.41
2:C:863:ASP:OD1	2:C:865:THR:CG2	2.67	0.41
2:C:36:PRO:O	2:C:39:ARG:CG	2.53	0.41
3:I:879:ARG:CG	3:I:879:ARG:HH11	2.34	0.41
2:M:854:PRO:O	2:M:855:VAL:C	2.59	0.41
2:M:957:LYS:CD	2:M:961:GLU:CB	2.95	0.41
3:D:834:THR:CA	3:D:838:ARG:HD3	2.50	0.41
3:I:978:TYR:C	3:I:980:MET:H	2.23	0.41
2:H:374:ASN:ND2	2:H:374:ASN:O	2.54	0.41
3:N:841:TYR:HB2	3:N:864:VAL:HG13	2.03	0.41
3:N:899:LEU:HD13	3:N:914:LEU:CD2	2.50	0.41
2:H:835:VAL:HA	2:H:849:VAL:HG12	2.02	0.41
2:C:49:ARG:O	2:C:53:PRO:HD2	2.20	0.41
3:I:1278:ASP:HB3	3:I:1321:ALA:N	2.35	0.41
3:D:1356:TYR:CD1	3:D:1356:TYR:N	2.88	0.41
2:M:730:SER:O	2:M:734:LEU:CD1	2.67	0.41
2:M:691:SER:C	2:M:693:GLU:N	2.72	0.41
3:N:372:ASP:O	3:N:374:GLU:N	2.52	0.41
4:J:69:LEU:C	4:J:69:LEU:HD23	2.40	0.41
3:D:1295:GLU:HB3	3:D:1300:SER:HB3	2.02	0.41
1:F:117:VAL:HB	1:F:120:VAL:CG1	2.50	0.41
3:I:1274:ILE:HD12	3:I:1274:ILE:C	2.41	0.41
2:C:241:LEU:O	2:C:241:LEU:HD23	2.20	0.41
3:I:901:GLN:HG2	3:I:901:GLN:H	1.77	0.41
3:I:1126:ASP:OD1	3:I:1127:GLU:N	2.53	0.41
3:I:964:LEU:O	3:I:968:ASP:HB2	2.21	0.41
3:D:177:ALA:HB3	3:D:390:PRO:HG2	2.02	0.41
3:D:191:LEU:HD21	3:D:197:SER:OG	2.21	0.41
3:D:412:GLY:HA2	3:D:434:ARG:CZ	2.49	0.41
3:I:521:PRO:CD	3:I:524:LEU:HD13	2.49	0.41
3:I:158:TYR:HE1	3:I:452:ILE:HD11	1.86	0.41
2:C:1098:ASP:CB	3:D:11:ALA:O	2.57	0.41
2:C:885:ILE:HG21	3:D:950:GLY:HA2	2.02	0.41
3:N:139:GLY:HA3	3:N:162:ARG:HE	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:814:ALA:HB1	3:N:818:ARG:NE	2.34	0.41
3:N:1452:ILE:CD1	3:N:1452:ILE:H	2.34	0.41
3:D:1372:VAL:HG13	3:D:1373:ARG:N	2.34	0.41
1:B:80:LEU:HG	3:D:844:ALA:CB	2.51	0.41
2:C:89:THR:HG21	2:C:383:ARG:HH21	1.84	0.41
3:N:356:PRO:HA	3:N:440:VAL:O	2.21	0.41
3:N:683:ILE:HG21	3:N:688:TRP:CZ2	2.55	0.41
3:I:793:THR:O	3:I:879:ARG:NH1	2.54	0.41
3:I:562:ALA:CB	3:I:567:ILE:HD11	2.50	0.41
2:H:292:ARG:HG2	2:H:299:LYS:CB	2.37	0.41
2:M:1106:ASP:OD1	3:N:7:LYS:HD2	2.21	0.41
3:N:1288:GLU:C	3:N:1289:LYS:HG3	2.38	0.41
2:H:831:ARG:NH1	2:H:1002:GLU:HB2	2.35	0.41
2:H:691:SER:O	2:H:693:GLU:N	2.53	0.41
3:N:761:ILE:O	3:N:767:HIS:HD2	2.03	0.41
3:D:115:LEU:CD2	3:D:115:LEU:C	2.89	0.41
2:H:366:SER:C	2:H:371:LYS:HZ1	2.24	0.41
3:N:834:THR:CA	3:N:838:ARG:HD3	2.51	0.41
2:C:492:ASP:OD2	2:C:518:LYS:CG	2.66	0.41
2:M:704:HIS:HE2	2:M:998:TYR:HE1	1.66	0.41
3:D:1403:LEU:O	3:D:1407:LEU:HD13	2.20	0.41
2:C:86:LYS:O	2:C:813:VAL:HG23	2.20	0.41
7:X:16:MET:O	7:X:20:GLU:HG3	2.21	0.41
2:H:626:ARG:HB2	2:H:639:GLN:HE21	1.86	0.41
2:M:937:ASP:HB3	2:M:940:GLU:HG3	2.02	0.41
3:I:1491:THR:O	3:I:1495:ILE:HG12	2.21	0.41
3:I:975:GLU:HA	3:I:975:GLU:OE1	2.20	0.41
2:H:79:PRO:HG2	2:H:82:GLU:HB2	2.02	0.41
3:D:361:VAL:HG12	3:D:383:GLY:H	1.84	0.41
4:E:63:TRP:O	4:E:64:ALA:C	2.59	0.41
7:Z:82:VAL:CG2	7:Z:133:ARG:HH21	2.34	0.41
1:A:180:GLN:HE21	1:A:180:GLN:HB3	1.55	0.41
3:N:34:TYR:CD2	3:N:34:TYR:N	2.89	0.41
3:N:844:ALA:O	3:N:867:ARG:HB3	2.20	0.41
2:H:191:PHE:HA	2:H:192:PRO:HD3	1.87	0.41
3:I:521:PRO:CG	3:I:524:LEU:HD13	2.50	0.41
2:C:181:VAL:HG13	2:C:220:GLY:HA2	1.88	0.41
2:C:26:TYR:CE2	2:C:127:PHE:CE2	3.09	0.41
3:N:1029:ARG:NH1	3:N:1029:ARG:CG	2.83	0.41
3:D:112:ILE:HG21	3:D:128:TYR:OH	2.21	0.41
2:M:172:ILE:CD1	2:M:172:ILE:N	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:524:LEU:HD12	3:N:524:LEU:N	2.36	0.41
3:N:209:ARG:HB2	3:N:389:GLU:O	2.21	0.41
3:N:123:LEU:HD21	3:N:151:GLN:HE22	1.86	0.41
2:M:573:ARG:HB3	2:M:670:GLN:NE2	2.36	0.41
2:H:267:TYR:O	2:H:268:ASP:C	2.58	0.41
2:H:338:GLU:O	2:H:342:ASP:HB2	2.21	0.41
2:H:573:ARG:HB3	2:H:670:GLN:NE2	2.36	0.41
1:G:112:ARG:CG	1:G:125:PRO:CA	2.98	0.41
2:C:73:LEU:HD13	2:C:92:ALA:HB1	2.03	0.41
3:N:638:LYS:CA	3:N:932:ASP:OD1	2.66	0.41
2:C:39:ARG:O	2:C:40:GLU:O	2.38	0.41
3:D:835:SER:C	3:D:837:GLY:N	2.69	0.41
2:H:854:PRO:O	2:H:855:VAL:C	2.59	0.41
2:M:1040:LEU:O	2:M:1041:GLU:C	2.56	0.41
3:I:415:VAL:HG12	3:I:416:ALA:N	2.36	0.41
2:M:583:LEU:N	2:M:583:LEU:HD12	2.34	0.41
2:M:397:GLU:H	2:M:633:GLN:HG2	1.85	0.41
1:G:48:ILE:CD1	1:G:48:ILE:N	2.82	0.41
3:N:1313:VAL:HG21	3:N:1319:VAL:CG1	2.51	0.41
2:H:65:VAL:O	2:H:100:LEU:HA	2.20	0.41
1:L:101:LEU:HD12	1:L:114:PHE:CA	2.50	0.41
1:K:224:TYR:CG	1:L:9:PRO:HG2	2.55	0.41
7:Y:84:GLY:HA2	7:Y:130:LEU:HD12	2.02	0.41
2:H:937:ASP:HB3	2:H:940:GLU:HG3	2.02	0.41
2:C:441:VAL:HG12	2:C:559:LEU:CA	2.51	0.41
2:M:603:VAL:CG1	2:M:604:ALA:N	2.83	0.41
3:N:660:LYS:HA	3:N:660:LYS:CE	2.50	0.41
3:N:1026:SER:C	3:N:1028:ALA:N	2.74	0.41
2:H:236:ILE:HD12	2:H:236:ILE:H	1.85	0.41
3:D:593:ASN:CB	3:D:594:PRO:HD2	2.51	0.41
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	2.03	0.41
2:H:314:THR:HG22	2:H:314:THR:O	2.21	0.41
4:E:69:LEU:C	4:E:69:LEU:HD23	2.41	0.41
3:I:1346:ARG:HA	3:I:1346:ARG:HD2	1.84	0.41
2:H:274:ARG:HG3	2:H:285:LEU:HB3	2.01	0.41
3:D:180:LYS:NZ	3:D:386:HIS:HA	2.36	0.41
2:C:26:TYR:CD2	2:C:121:MET:HB2	2.49	0.41
2:C:191:PHE:CE2	2:C:195:LEU:HB3	2.56	0.41
2:C:335:THR:O	2:C:339:LEU:HG	2.21	0.41
2:C:391:LEU:HD23	2:C:391:LEU:C	2.41	0.41
2:C:265:ARG:HD3	2:C:267:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:970:LYS:HA	3:N:973:GLN:HE21	1.86	0.41
2:C:1099:VAL:HG22	3:D:10:ILE:HG13	1.92	0.41
3:D:520:LEU:HD11	3:D:524:LEU:CD2	2.49	0.41
3:N:1468:LEU:HD13	3:N:1470:ARG:CD	2.50	0.41
3:N:681:ARG:HG3	3:N:682:ASP:H	1.84	0.41
2:M:144:PRO:O	2:M:276:LYS:CD	2.69	0.41
2:M:145:GLY:HA2	2:M:276:LYS:HD3	2.03	0.41
2:M:328:LEU:HD22	2:M:433:THR:HG22	2.03	0.41
3:N:153:LEU:C	3:N:153:LEU:HD12	2.42	0.41
3:N:131:LYS:HE3	3:N:568:ARG:HH11	1.51	0.41
1:G:76:VAL:O	1:G:79:ILE:HG13	2.21	0.41
2:H:333:ILE:CG1	2:H:410:ILE:HD11	2.51	0.41
2:H:289:THR:C	2:H:291:ALA:N	2.75	0.41
2:M:198:ARG:HH12	2:M:203:ASP:HA	1.85	0.41
2:M:194:VAL:O	2:M:195:LEU:C	2.59	0.41
2:H:575:GLN:O	2:H:667:ALA:HB1	2.21	0.41
2:C:575:GLN:O	2:C:667:ALA:HB1	2.21	0.41
2:M:202:TYR:OH	2:M:304:LEU:HD23	2.21	0.41
2:H:1012:PRO:CD	2:H:1026:GLN:HG2	2.45	0.41
3:D:1083:ASP:OD2	3:D:1237:THR:HG22	2.20	0.41
2:H:1012:PRO:HD2	2:H:1026:GLN:HB2	2.01	0.41
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	2.03	0.41
2:M:578:VAL:HA	2:M:900:ARG:CG	2.51	0.41
2:M:188:LYS:CA	2:M:188:LYS:HZ2	2.34	0.41
3:N:1312:LEU:HA	3:N:1312:LEU:HD23	1.86	0.41
3:N:407:VAL:HG13	3:N:408:GLU:N	2.36	0.41
2:H:31:GLN:HG2	2:H:34:VAL:HG23	2.01	0.41
2:H:71:TYR:CG	2:H:71:TYR:O	2.74	0.41
2:C:1042:ALA:HB2	3:D:1223:ILE:CG2	2.50	0.41
3:I:925:GLU:O	3:I:928:ALA:HB3	2.21	0.41
2:M:115:LEU:O	2:M:378:LEU:HD23	2.20	0.41
3:I:814:ALA:HB1	3:I:818:ARG:NE	2.34	0.41
3:N:441:ARG:CD	3:N:445:ARG:HH22	2.34	0.41
3:D:703:ASN:ND2	3:D:704:ARG:H	2.18	0.41
3:D:706:PRO:HG3	6:Q:16:G:N2	2.36	0.41
2:C:309:TYR:CE2	2:C:321:GLU:HG3	2.56	0.41
1:A:35:THR:HG21	1:B:43:ILE:HG12	2.03	0.41
2:M:625:LEU:HD11	2:M:641:PRO:HG3	2.03	0.41
2:M:1001:VAL:HG22	3:N:630:VAL:HG21	2.03	0.41
3:I:481:MET:HE2	3:I:493:ARG:CA	2.49	0.41
7:Y:15:LEU:HB2	7:Y:69:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1101:VAL:CG1	3:I:1428:ALA:HB2	2.49	0.41
3:I:1106:VAL:HG11	3:I:1474:ALA:CB	2.51	0.41
2:H:863:ASP:OD1	2:H:865:THR:CG2	2.67	0.41
2:C:675:ALA:O	2:C:870:ILE:HA	2.21	0.41
2:M:260:LEU:CD2	2:M:260:LEU:C	2.87	0.41
2:H:90:TYR:CD1	2:H:120:LEU:HB2	2.55	0.41
3:D:862:ASP:O	3:D:876:SER:HB2	2.21	0.41
3:D:820:GLU:HB2	3:D:836:VAL:HG21	2.03	0.41
1:G:102:LYS:HB2	1:G:139:ASN:OD1	2.20	0.41
7:Y:83:ILE:HD13	7:Y:129:LEU:HD22	2.03	0.41
2:H:395:LYS:HE2	2:H:403:SER:HB2	2.02	0.41
3:D:554:LEU:CD1	3:D:570:GLU:HB3	2.50	0.41
1:B:172:SER:HA	1:B:173:PRO:HD3	1.92	0.41
3:I:841:TYR:HB2	3:I:864:VAL:HG13	2.03	0.41
3:I:970:LYS:NZ	7:Y:113:LEU:HA	2.35	0.41
3:N:1375:MET:C	3:N:1376:MET:HG3	2.40	0.41
3:I:31:THR:O	3:I:45:PHE:HD2	2.04	0.41
4:J:62:THR:O	4:J:66:LYS:HB2	2.21	0.41
2:M:907:ASP:O	2:M:907:ASP:CG	2.59	0.41
1:G:44:LEU:CA	1:G:48:ILE:HD13	2.44	0.41
3:N:887:ALA:HB1	3:N:893:GLU:HG3	2.01	0.41
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.50	0.41
7:X:105:VAL:O	7:X:121:ASP:N	2.54	0.41
1:G:104:GLU:CG	1:G:137:ARG:HD2	2.51	0.41
3:I:563:PRO:HB2	3:I:566:ILE:HG13	2.03	0.41
2:M:496:ILE:HA	2:M:531:PHE:O	2.20	0.41
4:E:40:LEU:CD2	4:E:67:GLU:HA	2.51	0.41
3:I:1294:VAL:O	3:I:1300:SER:HA	2.20	0.41
3:N:586:ARG:HA	3:N:586:ARG:HD3	1.94	0.41
3:N:47:GLU:O	3:N:51:GLY:CA	2.68	0.41
2:H:214:TYR:C	2:H:214:TYR:CD1	2.95	0.41
3:D:1150:ALA:HB3	3:D:1187:PRO:HB2	2.03	0.41
3:N:184:GLU:OE1	3:N:202:VAL:HG22	2.21	0.41
3:D:149:LYS:HE3	3:D:149:LYS:H	1.85	0.41
2:M:28:ARG:HG2	2:M:42:VAL:CG2	2.51	0.41
2:H:1047:HIS:O	2:H:1051:GLU:HB2	2.21	0.41
1:L:73:GLU:HG3	1:L:130:ALA:CB	2.51	0.41
2:M:102:HIS:HD2	2:M:107:LEU:O	2.04	0.41
2:H:78:PHE:N	2:H:78:PHE:CD1	2.88	0.41
3:N:1126:ASP:OD1	3:N:1129:THR:CA	2.69	0.41
2:M:967:PHE:CD1	2:M:972:VAL:HG12	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:586:ARG:HD3	3:I:586:ARG:HA	1.94	0.41
1:K:229:GLN:HB2	1:K:229:GLN:HE21	1.64	0.41
3:D:1127:GLU:OE2	7:X:66:GLU:OE2	2.39	0.41
1:L:91:ASN:HB2	1:L:92:PRO:HD2	2.02	0.41
3:I:464:LEU:HD23	3:I:464:LEU:HA	1.73	0.41
4:O:86:GLN:H	4:O:86:GLN:HG2	1.53	0.41
2:M:1058:ASP:O	2:M:1060:ILE:N	2.53	0.41
1:L:184:THR:O	1:L:192:LEU:HB2	2.21	0.41
2:H:208:ALA:CB	2:H:222:MET:SD	3.09	0.41
2:C:182:VAL:HB	2:C:193:LEU:HB2	2.03	0.41
2:M:39:ARG:CD	2:M:45:GLN:CG	2.99	0.41
3:D:1026:SER:C	3:D:1028:ALA:N	2.74	0.41
1:K:175:ARG:HH22	2:M:697:ARG:HH22	1.67	0.41
1:K:83:LYS:HZ3	1:K:168:ASP:HB2	1.85	0.41
2:H:139:GLN:O	2:H:333:ILE:HA	2.21	0.41
2:H:341:THR:HG23	2:H:342:ASP:N	2.35	0.41
3:D:1254:GLN:CA	3:D:1258:ARG:HB2	2.35	0.41
2:M:1004:LYS:HA	2:M:1004:LYS:HD3	1.93	0.41
3:I:1209:LEU:O	3:I:1211:MET:O	2.39	0.41
2:H:577:PRO:HG3	2:H:993:PHE:CD1	2.56	0.41
4:J:26:ARG:NH2	4:J:67:GLU:OE2	2.54	0.41
3:N:983:LEU:CD2	3:N:983:LEU:N	2.82	0.41
1:K:80:LEU:HD23	1:K:80:LEU:C	2.41	0.41
1:K:64:GLU:CD	2:M:830:LYS:HE2	2.41	0.41
3:N:361:VAL:HG23	3:N:383:GLY:O	2.21	0.41
3:I:1462:LEU:CD2	3:I:1472:ILE:HG22	2.46	0.41
3:I:1107:VAL:HG11	3:I:1217:ILE:HA	2.01	0.41
1:A:218:LEU:HD23	1:B:222:LEU:HD11	2.03	0.41
3:I:795:VAL:CG2	3:I:879:ARG:HH12	2.34	0.41
4:O:3:GLU:O	4:O:6:ILE:HG22	2.21	0.41
2:C:1046:ALA:HB1	3:D:1471:LEU:HD11	2.03	0.41
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.80	0.41
3:D:907:GLU:O	3:D:911:LEU:HD12	2.21	0.41
2:C:341:THR:HG23	2:C:342:ASP:N	2.35	0.41
2:H:480:THR:HG22	2:H:481:ASP:H	1.86	0.41
2:H:86:LYS:O	2:H:87:ASP:HB2	2.20	0.41
3:N:845:ASN:O	3:N:848:GLU:HB2	2.20	0.41
2:C:42:VAL:O	2:C:43:GLY:O	2.39	0.41
2:H:928:LYS:HA	2:H:928:LYS:HD2	1.83	0.41
1:L:117:VAL:HG12	1:L:118:ALA:N	2.36	0.41
1:G:98:THR:HG22	1:G:100:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:229:GLN:HE21	1:A:229:GLN:HB2	1.58	0.41
2:M:159:ILE:HD12	2:M:159:ILE:O	2.21	0.41
2:C:969:GLN:HE21	2:C:969:GLN:HB3	1.48	0.41
1:A:65:PHE:CD1	1:A:65:PHE:N	2.89	0.41
1:K:122:ILE:HD12	1:K:122:ILE:N	2.36	0.41
2:H:206:THR:O	2:H:209:ARG:HG2	2.21	0.40
3:D:165:LYS:HG2	2:H:213:ALA:HB1	2.03	0.40
3:I:632:VAL:CG2	3:I:725:SER:CB	2.99	0.40
2:C:197:LEU:HD13	2:C:207:LEU:CD1	2.31	0.40
2:C:194:VAL:O	2:C:197:LEU:N	2.54	0.40
2:C:199:VAL:CG1	2:C:235:LEU:HG	2.51	0.40
2:C:418:LEU:CD1	2:C:418:LEU:N	2.84	0.40
3:I:116:LEU:CD1	3:I:461:ILE:HG23	2.51	0.40
3:I:135:LEU:HD22	3:I:148:GLU:O	2.22	0.40
2:M:851:LYS:HG2	2:M:853:LEU:CD1	2.50	0.40
3:N:783:ARG:HE	3:N:1029:ARG:HG2	1.86	0.40
3:N:949:ILE:HD11	3:N:1023:MET:HE2	2.02	0.40
3:D:1440:PHE:O	3:D:1441:GLN:O	2.38	0.40
2:H:1084:SER:C	2:H:1087:VAL:HG12	2.41	0.40
2:M:141:HIS:CD2	2:M:141:HIS:C	2.94	0.40
2:M:141:HIS:O	2:M:331:ARG:HG2	2.21	0.40
2:C:676:ILE:HG21	2:C:988:VAL:CG1	2.42	0.40
3:N:160:GLU:HB3	3:N:161:LEU:H	1.75	0.40
3:N:389:GLU:N	3:N:390:PRO:CD	2.84	0.40
3:N:134:VAL:HB	3:N:135:LEU:H	1.72	0.40
3:N:813:LEU:C	3:N:813:LEU:HD12	2.41	0.40
2:H:265:ARG:CG	2:H:267:TYR:CD1	3.04	0.40
2:H:333:ILE:HG12	2:H:410:ILE:HD11	2.03	0.40
2:M:207:LEU:HD22	2:M:221:LEU:HD13	2.02	0.40
2:C:572:ILE:HG13	2:C:572:ILE:H	1.66	0.40
2:C:575:GLN:HB2	2:C:670:GLN:HG2	2.03	0.40
2:M:305:PRO:CA	2:M:308:ARG:HB3	2.38	0.40
2:H:1056:LYS:HB3	3:I:624:ASP:H	1.85	0.40
2:C:81:ASP:CA	2:C:84:ARG:NH1	2.84	0.40
7:Z:153:ALA:C	7:Z:154:ILE:HG13	2.39	0.40
2:C:1084:SER:C	2:C:1087:VAL:HG12	2.41	0.40
1:K:42:ARG:CZ	2:M:857:ASP:HB3	2.51	0.40
5:T:18:DC:C2'	5:T:19:DC:C5'	2.96	0.40
3:N:361:VAL:HG12	3:N:379:ALA:HB1	2.03	0.40
3:I:845:ASN:H	3:I:848:GLU:HG3	1.86	0.40
3:N:481:MET:SD	3:N:1388:ARG:HD3	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1289:LYS:C	3:D:1290:LEU:HD12	2.41	0.40
2:C:854:PRO:O	2:C:855:VAL:C	2.59	0.40
2:M:794:PRO:CD	2:M:1025:ALA:HA	2.51	0.40
1:A:18:ARG:NH1	1:A:123:MET:CE	2.85	0.40
1:A:19:GLU:O	1:A:207:PRO:HG3	2.21	0.40
3:I:980:MET:HA	7:Y:142:THR:HG23	2.02	0.40
3:N:1287:GLU:C	3:N:1289:LYS:H	2.25	0.40
2:H:242:LEU:O	2:H:243:ARG:HB2	2.21	0.40
3:N:642:CYS:HB3	3:N:716:PHE:HB3	2.00	0.40
1:B:106:PRO:HG2	1:B:134:GLU:OE2	2.21	0.40
3:N:620:GLY:O	3:N:621:LYS:HG2	2.20	0.40
3:N:820:GLU:HB2	3:N:836:VAL:HG21	2.03	0.40
3:D:1491:THR:HA	3:D:1494:ALA:CB	2.52	0.40
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	2.03	0.40
3:D:1313:VAL:HG21	3:D:1319:VAL:CG1	2.51	0.40
4:O:29:GLN:HB3	4:O:89:MET:HE3	2.04	0.40
3:D:845:ASN:H	3:D:848:GLU:HG3	1.86	0.40
3:D:54:LYS:HD2	3:D:55:ASP:N	2.30	0.40
3:I:1313:VAL:HG21	3:I:1319:VAL:CG1	2.51	0.40
3:N:593:ASN:O	3:N:594:PRO:C	2.60	0.40
7:Y:56:ALA:HA	7:Y:59:GLU:OE1	2.22	0.40
2:C:742:VAL:CG1	2:C:743:VAL:N	2.83	0.40
2:H:252:LYS:O	2:H:253:ALA:C	2.59	0.40
3:I:1374:GLN:HA	3:I:1374:GLN:OE1	2.22	0.40
2:M:20:GLU:OE2	2:M:460:ARG:HD3	2.21	0.40
3:I:199:LEU:HD23	3:I:200:ASP:O	2.21	0.40
3:I:169:TYR:HA	3:I:170:PRO:HD3	1.90	0.40
2:C:928:LYS:HZ3	2:C:932:GLU:HG3	1.85	0.40
2:M:610:ARG:HG3	2:M:610:ARG:HH11	1.86	0.40
3:N:964:LEU:O	3:N:968:ASP:HB2	2.21	0.40
2:H:752:GLY:H	2:H:792:VAL:HB	1.85	0.40
2:H:424:GLY:O	2:H:425:PHE:C	2.60	0.40
2:M:797:GLY:C	2:M:827:VAL:HG11	2.42	0.40
3:D:964:LEU:O	3:D:968:ASP:HB2	2.21	0.40
2:H:206:THR:HG23	2:H:207:LEU:H	1.86	0.40
3:D:166:GLN:CB	2:H:210:GLU:HG3	2.42	0.40
2:H:311:PHE:N	2:H:311:PHE:HD2	2.18	0.40
2:H:1090:LYS:HA	2:H:1093:GLN:CG	2.47	0.40
2:H:1090:LYS:HA	2:H:1090:LYS:HD3	1.89	0.40
2:C:221:LEU:C	2:C:223:ASP:H	2.24	0.40
3:I:119:SER:H	3:I:123:LEU:HD22	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:451:ASP:C	3:I:452:ILE:CG2	2.89	0.40
2:M:39:ARG:HD2	2:M:45:GLN:CD	2.36	0.40
2:M:678:PRO:O	3:N:943:THR:HA	2.22	0.40
3:D:134:VAL:CG2	3:D:460:ALA:HB2	2.35	0.40
2:M:141:HIS:N	2:M:141:HIS:CD2	2.89	0.40
2:C:679:PHE:CZ	2:C:853:LEU:HD21	2.55	0.40
2:M:575:GLN:HB2	2:M:670:GLN:HG2	2.04	0.40
2:H:265:ARG:O	2:H:288:ARG:HG2	2.21	0.40
2:H:332:ARG:NH1	2:H:338:GLU:CD	2.73	0.40
2:H:575:GLN:HB2	2:H:670:GLN:HG2	2.03	0.40
2:C:657:ASP:OD1	2:C:662:GLU:C	2.60	0.40
2:C:573:ARG:HB3	2:C:670:GLN:NE2	2.36	0.40
3:I:549:ASN:HA	3:I:549:ASN:HD22	1.56	0.40
2:C:76:PRO:O	2:C:77:PRO:C	2.60	0.40
7:Z:152:VAL:O	7:Z:153:ALA:HB2	2.21	0.40
3:D:1095:THR:O	3:D:1099:VAL:CG2	2.67	0.40
3:I:1273:VAL:O	3:I:1273:VAL:CG2	2.69	0.40
1:F:39:PRO:HG3	1:G:39:PRO:HG3	2.03	0.40
1:K:111:ALA:HA	1:K:129:ILE:HD11	2.02	0.40
1:A:11:PHE:CD2	1:B:225:PHE:O	2.74	0.40
3:I:907:GLU:O	3:I:911:LEU:HD12	2.21	0.40
3:N:624:ASP:O	3:N:625:TYR:HB2	2.22	0.40
3:N:1286:THR:O	3:N:1287:GLU:HB2	2.21	0.40
2:C:979:THR:HG23	2:C:981:GLU:N	2.23	0.40
2:C:897:LEU:CD2	2:C:921:ALA:HA	2.49	0.40
3:I:1052:THR:CG2	7:Y:57:ARG:HH11	2.34	0.40
3:D:1169:ASP:O	3:D:1172:HIS:HB2	2.21	0.40
1:L:48:ILE:HG21	1:L:173:PRO:HD2	2.03	0.40
3:I:970:LYS:HA	3:I:973:GLN:HE21	1.86	0.40
3:I:995:LEU:O	3:I:999:THR:HB	2.22	0.40
3:I:1225:ALA:HB2	3:I:1370:ILE:CD1	2.52	0.40
2:M:918:LEU:HD23	2:M:968:LEU:HA	2.02	0.40
2:C:54:ILE:HD11	2:C:356:ARG:CG	2.51	0.40
2:C:64:LEU:HD22	2:C:359:MET:HG2	2.04	0.40
2:M:681:GLY:HA3	3:N:635:PRO:HB3	2.03	0.40
3:D:1277:ILE:CD1	3:D:1277:ILE:N	2.85	0.40
3:I:1403:LEU:O	3:I:1407:LEU:HD13	2.20	0.40
2:M:346:VAL:O	2:M:350:ARG:HG3	2.21	0.40
7:Y:123:SER:O	7:Y:126:GLY:N	2.54	0.40
1:B:91:ASN:HB2	1:B:92:PRO:HD2	2.02	0.40
1:K:218:LEU:CD2	1:L:222:LEU:HD21	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:37:ASN:N	4:O:37:ASN:ND2	2.69	0.40
2:M:604:ALA:HB3	2:M:612:VAL:O	2.21	0.40
1:F:45:LEU:HD11	1:F:177:VAL:CG2	2.51	0.40
1:G:72:LYS:HB3	1:G:131:THR:OG1	2.21	0.40
2:H:84:ARG:NH1	2:H:84:ARG:HG3	2.35	0.40
1:K:121:GLU:HG2	1:K:122:ILE:N	2.36	0.40
1:G:91:ASN:HB2	1:G:92:PRO:HD2	2.02	0.40
7:Y:152:VAL:O	7:Y:153:ALA:HB2	2.21	0.40
2:C:591:SER:O	2:C:592:LEU:HB2	2.21	0.40
3:N:1151:ARG:HA	3:N:1162:GLU:HG3	2.03	0.40
1:G:184:THR:O	1:G:192:LEU:HB2	2.21	0.40
3:I:1468:LEU:HD22	3:I:1470:ARG:HD3	2.03	0.40
3:I:632:VAL:O	3:I:727:GLN:HA	2.22	0.40
2:C:140:ILE:CG2	2:C:410:ILE:HG21	2.50	0.40
2:C:191:PHE:CE2	2:C:192:PRO:O	2.74	0.40
2:C:263:ASP:C	2:C:264:PRO:O	2.60	0.40
3:N:995:LEU:O	3:N:999:THR:HB	2.22	0.40
3:N:160:GLU:HG2	3:N:165:LYS:CB	2.51	0.40
1:G:99:LEU:HB2	1:G:142:VAL:HG23	2.02	0.40
3:D:483:HIS:CB	3:D:484:PRO:HD3	2.37	0.40
2:H:414:GLY:O	2:H:416:GLY:N	2.55	0.40
3:D:29:PRO:HD3	3:D:548:ILE:CG2	2.50	0.40
2:H:568:ALA:HB1	2:H:668:LEU:HB3	2.02	0.40
1:G:88:ARG:HD2	1:G:123:MET:CE	2.51	0.40
4:J:47:LYS:C	4:J:54:LEU:HD12	2.42	0.40
4:J:54:LEU:CD2	4:J:58:PRO:CG	2.99	0.40
3:D:1084:THR:HA	3:D:1087:ARG:HH11	1.85	0.40
2:C:368:THR:O	2:C:369:PRO:C	2.58	0.40
1:F:206:THR:HG22	1:F:209:GLU:HG2	2.03	0.40
4:J:25:LYS:HA	4:J:28:GLN:CD	2.41	0.40
2:M:835:VAL:HG13	2:M:836:GLY:N	2.36	0.40
1:B:99:LEU:HB2	1:B:142:VAL:HG23	2.03	0.40
1:B:56:VAL:HG21	1:B:82:LEU:HD12	2.03	0.40
3:D:820:GLU:CD	3:D:820:GLU:C	2.79	0.40
2:M:1047:HIS:N	2:M:1047:HIS:CD2	2.88	0.40
2:H:500:ASN:OD1	3:I:1067:VAL:HG23	2.21	0.40
2:C:541:SER:O	2:C:545:ASN:HB2	2.21	0.40
4:O:68:LEU:HD12	4:O:73:LEU:HD13	2.04	0.40
3:N:907:GLU:O	3:N:911:LEU:HD12	2.21	0.40
7:X:102:VAL:CG1	7:X:103:GLN:N	2.83	0.40
3:D:793:THR:O	3:D:879:ARG:NH1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1120:VAL:CG2	3:N:1188:VAL:HG11	2.51	0.40
2:M:178:PRO:C	2:M:180:GLY:H	2.25	0.40
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.86	0.40
3:I:1280:VAL:HG22	3:I:1295:GLU:O	2.22	0.40
1:K:30:ARG:NH1	1:K:30:ARG:HG2	2.36	0.40
3:N:845:ASN:H	3:N:848:GLU:HG3	1.86	0.40
2:C:103:LYS:HG2	2:C:103:LYS:H	1.70	0.40
2:H:625:LEU:HD11	2:H:641:PRO:HG3	2.03	0.40
3:N:1274:ILE:HD12	3:N:1274:ILE:C	2.41	0.40
7:X:132:HIS:NE2	7:X:138:LEU:HD22	2.36	0.40
1:F:165:ILE:HA	1:F:166:PRO:HD3	1.90	0.40
2:H:494:TYR:CD1	2:H:494:TYR:N	2.89	0.40
2:H:473:ARG:HA	2:H:531:PHE:CE1	2.56	0.40
1:A:121:GLU:HG2	1:A:122:ILE:N	2.36	0.40
2:M:10:ARG:HA	2:M:10:ARG:HD3	1.84	0.40
2:H:716:LYS:HB3	2:H:716:LYS:HE2	1.95	0.40
3:D:1096:ARG:NE	3:D:1100:ASP:OD2	2.54	0.40
3:I:584:ASN:OD1	3:I:590:PRO:HG2	2.21	0.40
2:C:141:HIS:HB3	2:C:418:LEU:HB3	2.03	0.40
2:M:678:PRO:HG2	3:N:947:ILE:CD1	2.45	0.40
2:M:874:LEU:O	3:N:1029:ARG:HD3	2.22	0.40
2:C:1096:ALA:O	2:C:1097:LEU:C	2.60	0.40
3:D:524:LEU:N	3:D:524:LEU:HD12	2.36	0.40
2:M:328:LEU:HD13	2:M:433:THR:CB	2.27	0.40
2:H:309:TYR:CD1	2:H:313:LEU:CD1	2.97	0.40
2:M:399:ASN:HD22	2:M:668:LEU:HD23	1.86	0.40
2:H:338:GLU:HA	2:H:341:THR:CG2	2.52	0.40
2:C:572:ILE:HG13	2:C:701:THR:O	2.20	0.40
3:I:1047:LYS:CB	3:I:1048:PRO:CD	2.94	0.40
2:H:897:LEU:CD2	2:H:921:ALA:HA	2.49	0.40
1:B:73:GLU:HB2	1:B:78:ILE:CG1	2.50	0.40
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.57	0.40
2:C:1093:GLN:OE1	3:D:21:TRP:CE3	2.75	0.40
3:D:1122:LEU:CD1	3:D:1185:GLU:HA	2.45	0.40
2:C:1031:ARG:HG2	2:C:1033:GLY:H	1.86	0.40
2:C:1040:LEU:HD23	2:C:1049:LEU:HA	2.03	0.40
3:N:729:HIS:HB3	3:N:732:VAL:CG2	2.51	0.40
1:B:34:VAL:HG23	1:B:181:VAL:HG21	2.03	0.40
3:D:639:LEU:HD12	3:D:640:HIS:H	1.85	0.40
2:C:45:GLN:HG2	2:C:45:GLN:O	2.21	0.40
2:H:73:LEU:HD12	2:H:74:GLY:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:90:TYR:CD1	2:H:90:TYR:O	2.74	0.40
1:K:35:THR:O	1:K:39:PRO:HG2	2.22	0.40
3:D:995:LEU:O	3:D:999:THR:HB	2.22	0.40
2:M:477:GLY:O	2:M:507:ARG:HA	2.21	0.40
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.56	0.40
7:Z:123:SER:O	7:Z:126:GLY:N	2.54	0.40
3:D:749:VAL:HA	3:D:750:PRO:HD3	1.71	0.40
1:B:13:VAL:HG13	1:B:23:PHE:CE1	2.57	0.40
3:N:447:VAL:HG22	3:N:447:VAL:H	1.53	0.40
3:I:866:VAL:HG11	3:I:880:ILE:HD11	2.04	0.40
3:N:820:GLU:CD	3:N:820:GLU:C	2.80	0.40
3:N:1225:ALA:HB2	3:N:1370:ILE:CD1	2.52	0.40
3:D:1327:ARG:HG3	3:D:1328:GLY:N	2.34	0.40
2:C:266:ARG:CD	2:C:266:ARG:O	2.63	0.40
3:I:1331:ASP:HA	3:I:1332:PRO:HD3	1.90	0.40
3:I:1065:LEU:HD23	3:I:1070:TYR:CD2	2.57	0.40
3:D:1065:LEU:HD23	3:D:1070:TYR:CD2	2.56	0.40
1:B:52:ALA:HB1	1:B:170:VAL:N	2.36	0.40
1:G:86:VAL:CG1	1:G:124:ASN:HB2	2.51	0.40
4:E:43:GLU:O	4:E:44:GLU:CB	2.68	0.40
2:H:739:GLU:OE1	2:H:742:VAL:HB	2.22	0.40
1:F:117:VAL:CG1	1:F:120:VAL:HG12	2.52	0.40
2:H:729:LEU:C	2:H:729:LEU:HD23	2.41	0.40
3:I:1105:ILE:HD11	3:I:1374:GLN:NE2	2.37	0.40
2:M:295:ASP:O	2:M:297:GLU:N	2.50	0.40
1:F:121:GLU:HG2	1:F:122:ILE:N	2.36	0.40
1:F:65:PHE:CD1	1:F:65:PHE:N	2.89	0.40
3:N:1293:PHE:CE1	3:N:1302:GLU:HA	2.57	0.40
2:C:69:LEU:HB2	2:C:97:ARG:O	2.21	0.40
3:I:497:GLU:O	3:I:500:ARG:HB3	2.21	0.40
2:C:78:PHE:HB3	2:C:79:PRO:HD2	2.02	0.40
2:M:35:PRO:C	2:M:37:GLU:N	2.75	0.40
7:Z:20:GLU:O	7:Z:23:ARG:HB2	2.21	0.40
2:H:277:ALA:O	2:H:278:GLU:C	2.60	0.40
2:C:127:PHE:O	2:C:133:ASP:HA	2.20	0.40
2:C:250:ARG:HG2	2:C:250:ARG:H	1.33	0.40
2:C:267:TYR:O	2:C:268:ASP:C	2.60	0.40
2:M:348:LEU:HA	2:M:348:LEU:HD12	1.89	0.40
3:D:1442:ASN:O	3:D:1446:VAL:HG23	2.21	0.40
2:M:465:GLY:O	2:M:466:PHE:C	2.59	0.40
3:N:134:VAL:HG23	3:N:455:ARG:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:165:LEU:CD2	2:H:418:LEU:HG	2.51	0.40
1:K:11:PHE:CB	1:K:25:LEU:HD13	2.48	0.40
2:M:202:TYR:CZ	2:M:304:LEU:CD2	3.04	0.40
3:I:1042:ARG:HB2	3:I:1042:ARG:NH1	2.36	0.40
3:I:138:LYS:CD	3:I:138:LYS:N	2.85	0.40
7:Z:125:MET:SD	7:Z:125:MET:C	2.99	0.40
2:H:31:GLN:HE22	2:H:39:ARG:CB	2.35	0.40
3:I:813:LEU:C	3:I:813:LEU:HD12	2.41	0.40
3:I:1305:LEU:HD12	3:I:1311:LEU:CD2	2.31	0.40
3:I:704:ARG:HH12	3:I:743:ASP:CB	2.35	0.40
3:I:729:HIS:HB3	3:I:732:VAL:CG2	2.51	0.40
2:M:199:VAL:CG1	2:M:235:LEU:HD12	2.51	0.40
3:D:409:VAL:O	3:D:410:SER:HB2	2.21	0.40
3:D:704:ARG:HH12	3:D:743:ASP:CB	2.35	0.40
2:C:363:SER:O	2:C:366:SER:HB2	2.22	0.40
2:H:1046:ALA:HB2	3:I:1476:THR:HB	2.04	0.40
3:D:1112:CYS:CB	3:D:1201:CYS:SG	3.09	0.40
1:L:56:VAL:HG12	1:L:58:ILE:CD1	2.51	0.40
3:D:843:PHE:CD2	3:D:849:ALA:HA	2.57	0.40
3:N:1042:ARG:NH1	3:N:1042:ARG:HB2	2.36	0.40
2:C:395:LYS:HE2	2:C:397:GLU:CD	2.42	0.40
2:C:395:LYS:O	2:C:397:GLU:HG3	2.21	0.40
3:N:447:VAL:O	3:N:449:SER:N	2.54	0.40
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	2.21	0.40
2:H:1035:MET:HB3	2:H:1036:GLU:OE1	2.21	0.40
3:I:1061:PHE:CE1	3:I:1065:LEU:HD22	2.41	0.40
2:C:554:ASP:HA	3:D:1061:PHE:CZ	2.57	0.40
2:C:99:GLN:NE2	2:C:101:ILE:HD11	2.36	0.40
3:D:845:ASN:O	3:D:848:GLU:HB2	2.20	0.40
3:D:1476:THR:O	3:D:1476:THR:CG2	2.69	0.40
2:C:739:GLU:OE1	2:C:742:VAL:HB	2.22	0.40
2:H:441:VAL:HG12	2:H:559:LEU:CA	2.51	0.40
1:L:73:GLU:OE1	1:L:131:THR:N	2.54	0.40
1:F:216:GLU:CD	1:F:219:ARG:HH21	2.25	0.40
1:F:8:ALA:O	1:F:9:PRO:C	2.60	0.40
1:G:143:ARG:NH1	1:G:158:ILE:HG23	2.37	0.40
1:A:122:ILE:N	1:A:122:ILE:HD12	2.36	0.40
1:F:122:ILE:N	1:F:122:ILE:HD12	2.36	0.40
3:D:138:LYS:HG2	3:D:138:LYS:O	2.21	0.40
1:G:65:PHE:N	1:G:65:PHE:CD1	2.89	0.40
2:H:816:LYS:HB2	2:H:819:VAL:HG21	2.04	0.40

All (10) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:LEU:CD1	1:F:59:GLU:OE1[2_455]	1.51	0.69
3:D:1182:GLU:OE2	1:G:112:ARG:NE[1_655]	1.61	0.59
1:B:162:ILE:CG1	3:N:976:GLN:NE2[1_655]	1.90	0.30
1:A:100:LEU:CD1	1:F:59:GLU:CD[2_455]	1.97	0.23
2:C:223:ASP:O	3:N:562:ALA:O[2_444]	2.02	0.18
3:D:1182:GLU:OE2	1:G:112:ARG:CD[1_655]	2.05	0.15
3:I:159:ARG:NH1	2:M:218:VAL:CG1[2_445]	2.06	0.14
3:D:1181:GLY:O	1:G:112:ARG:O[1_655]	2.14	0.06
1:B:162:ILE:CD1	3:N:976:GLN:NE2[1_655]	2.17	0.03
1:A:115:LEU:CD2	1:F:161:ARG:CD[2_455]	2.18	0.02

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	221/315 (70%)	191 (86%)	22 (10%)	8 (4%)	4	40
1	B	221/315 (70%)	191 (86%)	27 (12%)	3 (1%)	14	59
1	F	221/315 (70%)	191 (86%)	20 (9%)	10 (4%)	3	34
1	G	222/315 (70%)	193 (87%)	26 (12%)	3 (1%)	14	59
1	K	223/315 (71%)	193 (86%)	21 (9%)	9 (4%)	4	37
1	L	221/315 (70%)	188 (85%)	28 (13%)	5 (2%)	8	50
2	C	1077/1119 (96%)	864 (80%)	150 (14%)	63 (6%)	2	28
2	H	1074/1119 (96%)	867 (81%)	145 (14%)	62 (6%)	2	28
2	M	1078/1119 (96%)	871 (81%)	149 (14%)	58 (5%)	2	30
3	D	1306/1524 (86%)	1062 (81%)	186 (14%)	58 (4%)	3	34
3	I	1252/1524 (82%)	1012 (81%)	177 (14%)	63 (5%)	3	31
3	N	1317/1524 (86%)	1052 (80%)	196 (15%)	69 (5%)	2	31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	E	91/99 (92%)	67 (74%)	17 (19%)	7 (8%)	1	20
4	J	91/99 (92%)	70 (77%)	14 (15%)	7 (8%)	1	20
4	O	91/99 (92%)	68 (75%)	16 (18%)	7 (8%)	1	20
7	X	152/156 (97%)	132 (87%)	16 (10%)	4 (3%)	7	47
7	Y	150/156 (96%)	135 (90%)	12 (8%)	3 (2%)	9	53
7	Z	150/156 (96%)	131 (87%)	16 (11%)	3 (2%)	9	53
All	All	9158/10584 (86%)	7478 (82%)	1238 (14%)	442 (5%)	3	32

All (442) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	187	GLY
2	C	23	VAL
2	C	40	GLU
2	C	44	ILE
2	C	152	PRO
2	C	164	PRO
2	C	231	PRO
2	C	250	ARG
2	C	253	ALA
2	C	264	PRO
2	C	364	GLU
2	C	808	ARG
2	C	809	GLY
2	C	864	GLY
2	C	905	ILE
2	C	1033	GLY
2	C	1106	ASP
3	D	136	ASP
3	D	594	PRO
3	D	683	ILE
3	D	696	HIS
3	D	705	ALA
3	D	832	ARG
3	D	1028	ALA
3	D	1125	PRO
3	D	1129	THR
3	D	1287	GLU
3	D	1432	LYS
3	D	1441	GLN

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Mol	Chain	Res	Type
4	E	42	PRO
4	E	58	PRO
1	G	187	GLY
2	H	40	GLU
2	H	44	ILE
2	H	105	THR
2	H	152	PRO
2	H	181	VAL
2	H	231	PRO
2	H	243	ARG
2	H	250	ARG
2	H	253	ALA
2	H	364	GLU
2	H	727	PRO
2	H	808	ARG
2	H	809	GLY
2	H	864	GLY
2	H	905	ILE
2	H	1106	ASP
3	I	120	ALA
3	I	137	PRO
3	I	448	GLU
3	I	539	ASP
3	I	594	PRO
3	I	696	HIS
3	I	705	ALA
3	I	832	ARG
3	I	1028	ALA
3	I	1125	PRO
3	I	1287	GLU
3	I	1441	GLN
3	I	1454	GLY
4	J	42	PRO
1	L	187	GLY
2	M	50	GLU
2	M	152	PRO
2	M	179	ASN
2	M	181	VAL
2	M	231	PRO
2	M	244	PRO
2	M	250	ARG
2	M	253	ALA

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Mol	Chain	Res	Type
2	M	364	GLU
2	M	808	ARG
2	M	809	GLY
2	M	864	GLY
2	M	905	ILE
2	M	1055	LEU
2	M	1106	ASP
3	N	120	ALA
3	N	137	PRO
3	N	151	GLN
3	N	192	ALA
3	N	539	ASP
3	N	594	PRO
3	N	665	GLY
3	N	696	HIS
3	N	705	ALA
3	N	832	ARG
3	N	1028	ALA
3	N	1125	PRO
3	N	1287	GLU
3	N	1441	GLN
4	O	42	PRO
1	A	9	PRO
1	A	111	ALA
2	C	10	ARG
2	C	43	GLY
2	C	105	THR
2	C	129	ILE
2	C	156	GLY
2	C	213	ALA
2	C	218	VAL
2	C	252	LYS
2	C	278	GLU
2	C	290	LEU
2	C	396	ASP
2	C	450	GLY
2	C	466	PHE
2	C	684	PHE
2	C	740	GLU
2	C	908	GLY
2	C	998	TYR
2	C	1055	LEU

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Mol	Chain	Res	Type
3	D	31	THR
3	D	458	ALA
3	D	639	LEU
3	D	665	GLY
3	D	737	ASN
3	D	803	GLY
3	D	808	THR
3	D	844	ALA
3	D	1111	ASP
3	D	1454	GLY
4	E	82	GLU
1	F	111	ALA
2	H	10	ARG
2	H	23	VAL
2	H	43	GLY
2	H	129	ILE
2	H	156	GLY
2	H	213	ALA
2	H	283	ILE
2	H	290	LEU
2	H	684	PHE
2	H	740	GLU
2	H	908	GLY
2	H	998	TYR
2	H	1033	GLY
2	H	1055	LEU
3	I	119	SER
3	I	151	GLN
3	I	458	ALA
3	I	639	LEU
3	I	665	GLY
3	I	737	ASN
3	I	844	ALA
3	I	1111	ASP
3	I	1129	THR
3	I	1208	ASP
3	I	1432	LYS
4	J	46	PRO
4	J	58	PRO
4	J	82	GLU
1	K	9	PRO
1	K	111	ALA

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Mol	Chain	Res	Type
2	M	156	GLY
2	M	164	PRO
2	M	262	ALA
2	M	278	GLU
2	M	450	GLY
2	M	466	PHE
2	M	684	PHE
2	M	727	PRO
2	M	740	GLU
2	M	908	GLY
2	M	998	TYR
2	M	1033	GLY
3	N	31	THR
3	N	119	SER
3	N	136	ASP
3	N	146	PRO
3	N	189	GLN
3	N	639	LEU
3	N	737	ASN
3	N	844	ALA
3	N	1111	ASP
3	N	1129	THR
3	N	1208	ASP
3	N	1252	ILE
3	N	1454	GLY
4	O	58	PRO
4	O	82	GLU
7	Y	47	GLY
7	Y	94	PRO
1	A	125	PRO
1	A	133	GLU
1	A	224	TYR
1	A	226	SER
1	B	125	PRO
2	C	50	GLU
2	C	80	GLN
2	C	277	ALA
2	C	517	ARG
2	C	545	ASN
2	C	727	PRO
2	C	859	PRO
3	D	96	ALA

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Mol	Chain	Res	Type
3	D	98	PRO
3	D	144	GLY
3	D	448	GLU
3	D	507	ASN
3	D	735	ALA
3	D	1085	ALA
3	D	1269	LYS
3	D	1410	GLU
3	D	1459	LEU
4	E	44	GLU
4	E	46	PRO
1	F	9	PRO
1	F	72	LYS
1	F	125	PRO
1	F	133	GLU
1	F	191	ASP
1	F	224	TYR
1	F	226	SER
2	H	50	GLU
2	H	80	GLN
2	H	164	PRO
2	H	179	ASN
2	H	252	LYS
2	H	261	ILE
2	H	278	GLU
2	H	396	ASP
2	H	466	PHE
2	H	517	ARG
2	H	545	ASN
2	H	859	PRO
2	H	1012	PRO
2	H	1046	ALA
3	I	96	ALA
3	I	98	PRO
3	I	117	ASP
3	I	136	ASP
3	I	144	GLY
3	I	146	PRO
3	I	507	ASN
3	I	735	ALA
3	I	807	ALA
3	I	808	THR

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Mol	Chain	Res	Type
3	I	1269	LYS
3	I	1306	PRO
3	I	1410	GLU
4	J	44	GLU
1	K	125	PRO
1	K	133	GLU
1	K	224	TYR
2	M	23	VAL
2	M	141	HIS
2	M	144	PRO
2	M	213	ALA
2	M	261	ILE
2	M	290	LEU
2	M	517	ARG
2	M	545	ASN
2	M	859	PRO
2	M	1012	PRO
3	N	96	ALA
3	N	98	PRO
3	N	117	ASP
3	N	140	ALA
3	N	142	LEU
3	N	143	ASN
3	N	382	GLU
3	N	392	SER
3	N	507	ASN
3	N	735	ALA
3	N	802	ALA
3	N	808	THR
3	N	1269	LYS
3	N	1286	THR
3	N	1298	GLY
3	N	1306	PRO
3	N	1410	GLU
3	N	1432	LYS
3	N	1489	GLN
4	O	44	GLU
4	O	46	PRO
7	X	47	GLY
7	X	94	PRO
7	Z	47	GLY
7	Z	94	PRO

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Mol	Chain	Res	Type
1	A	72	LYS
2	C	53	PRO
2	C	144	PRO
2	C	283	ILE
2	C	295	ASP
2	C	457	ALA
2	C	680	ASP
2	C	932	GLU
2	C	1012	PRO
3	D	356	PRO
3	D	409	VAL
3	D	802	ALA
3	D	822	ALA
3	D	1265	ALA
3	D	1296	SER
3	D	1298	GLY
3	D	1385	GLY
4	E	24	ALA
1	G	125	PRO
2	H	53	PRO
2	H	144	PRO
2	H	216	GLU
2	H	262	ALA
2	H	272	ALA
2	H	457	ALA
2	H	680	ASP
2	H	932	GLU
3	I	140	ALA
3	I	407	VAL
3	I	802	ALA
3	I	822	ALA
3	I	1265	ALA
3	I	1286	THR
3	I	1296	SER
3	I	1298	GLY
3	I	1385	GLY
4	J	24	ALA
1	K	30	ARG
1	K	72	LYS
1	K	226	SER
1	L	118	ALA
2	M	53	PRO

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Mol	Chain	Res	Type
2	M	272	ALA
2	M	283	ILE
2	M	424	GLY
2	M	457	ALA
2	M	680	ASP
2	M	932	GLU
3	N	160	GLU
3	N	409	VAL
3	N	549	ASN
3	N	822	ALA
3	N	1265	ALA
3	N	1296	SER
3	N	1385	GLY
4	O	24	ALA
7	Y	151	VAL
1	B	44	LEU
2	C	31	GLN
2	C	272	ALA
2	C	424	GLY
2	C	538	GLN
3	D	572	ARG
3	D	766	ALA
3	D	1197	ARG
3	D	1286	THR
3	D	1389	LEU
3	D	1489	GLN
4	E	16	LYS
1	F	30	ARG
2	H	31	GLN
2	H	424	GLY
2	H	538	GLN
3	I	483	HIS
3	I	512	MET
3	I	766	ALA
3	I	1085	ALA
3	I	1086	LEU
3	I	1197	ARG
1	L	125	PRO
2	M	10	ARG
2	M	207	LEU
2	M	216	GLU
2	M	232	GLU

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Mol	Chain	Res	Type
2	M	252	LYS
2	M	295	ASP
2	M	538	GLN
2	M	1046	ALA
3	N	356	PRO
3	N	483	HIS
3	N	766	ALA
3	N	1086	LEU
3	N	1197	ARG
2	C	21	ILE
2	C	181	VAL
2	C	261	ILE
2	C	263	ASP
2	C	627	ARG
2	C	1046	ALA
3	D	377	VAL
3	D	512	MET
3	D	1224	VAL
2	H	11	GLU
2	H	277	ALA
2	H	279	GLU
2	H	627	ARG
3	I	31	THR
3	I	580	ALA
3	I	1224	VAL
3	I	1412	LYS
3	I	1459	LEU
4	J	25	LYS
1	L	59	GLU
2	M	277	ALA
2	M	369	PRO
2	M	627	ARG
3	N	410	SER
3	N	512	MET
3	N	580	ALA
3	N	1478	SER
4	O	64	ALA
7	X	115	THR
7	Z	115	THR
3	D	1223	ILE
3	I	1027	GLY
3	I	1223	ILE

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Mol	Chain	Res	Type
3	N	1223	ILE
3	N	1224	VAL
7	X	151	VAL
2	C	369	PRO
2	C	548	PRO
3	D	1371	VAL
2	H	548	PRO
3	I	1371	VAL
2	M	548	PRO
3	N	1371	VAL
2	C	42	VAL
2	C	74	GLY
3	D	29	PRO
1	G	157	GLY
3	I	484	PRO
1	L	157	GLY
2	M	74	GLY
3	N	349	PRO
3	N	484	PRO
3	D	146	PRO
3	D	407	VAL
3	D	1027	GLY
3	D	1050	GLY
2	H	296	GLY
3	I	409	VAL
3	I	1050	GLY
3	N	407	VAL
3	N	1050	GLY
1	A	21	GLY
3	D	208	PRO
3	D	1306	PRO
1	F	21	GLY
2	H	369	PRO
1	K	21	GLY
2	M	368	THR

### 5.3.2 Protein sidechains ⓘ

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

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	196/273 (72%)	164 (84%)	32 (16%)	3	21
1	B	196/273 (72%)	166 (85%)	30 (15%)	3	24
1	F	196/273 (72%)	167 (85%)	29 (15%)	4	26
1	G	196/273 (72%)	164 (84%)	32 (16%)	3	21
1	K	196/273 (72%)	164 (84%)	32 (16%)	3	21
1	L	196/273 (72%)	164 (84%)	32 (16%)	3	21
2	C	912/941 (97%)	737 (81%)	175 (19%)	2	14
2	H	909/941 (97%)	736 (81%)	173 (19%)	2	14
2	M	912/941 (97%)	746 (82%)	166 (18%)	2	16
3	D	1113/1279 (87%)	928 (83%)	185 (17%)	3	21
3	I	1068/1279 (84%)	878 (82%)	190 (18%)	2	17
3	N	1124/1279 (88%)	937 (83%)	187 (17%)	3	21
4	E	82/88 (93%)	72 (88%)	10 (12%)	6	33
4	J	82/88 (93%)	72 (88%)	10 (12%)	6	33
4	O	82/88 (93%)	67 (82%)	15 (18%)	2	16
7	X	130/131 (99%)	115 (88%)	15 (12%)	7	35
7	Y	128/131 (98%)	104 (81%)	24 (19%)	2	15
7	Z	128/131 (98%)	110 (86%)	18 (14%)	4	28
All	All	7846/8955 (88%)	6491 (83%)	1355 (17%)	2	18

All (1355) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	9	PRO
1	A	15	THR
1	A	16	GLN
1	A	20	TYR
1	A	22	GLU
1	A	26	GLU
1	A	28	LEU
1	A	30	ARG
1	A	47	SER
1	A	62	LEU
1	A	65	PHE
1	A	74	ASP

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Mol	Chain	Res	Type
1	A	92	PRO
1	A	96	THR
1	A	100	LEU
1	A	101	LEU
1	A	113	ASP
1	A	123	MET
1	A	126	ASP
1	A	141	GLU
1	A	143	ARG
1	A	161	ARG
1	A	163	ASN
1	A	165	ILE
1	A	175	ARG
1	A	180	GLN
1	A	183	ASP
1	A	184	THR
1	A	186	LEU
1	A	189	ARG
1	A	206	THR
1	A	219	ARG
1	B	18	ARG
1	B	20	TYR
1	B	25	LEU
1	B	40	LEU
1	B	54	THR
1	B	62	LEU
1	B	65	PHE
1	B	66	SER
1	B	73	GLU
1	B	95	GLN
1	B	104	GLU
1	B	122	ILE
1	B	123	MET
1	B	138	LEU
1	B	141	GLU
1	B	145	ASP
1	B	159	LYS
1	B	161	ARG
1	B	162	ILE
1	B	165	ILE
1	B	167	VAL
1	B	179	PHE

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Mol	Chain	Res	Type
1	B	180	GLN
1	B	184	THR
1	B	185	ARG
1	B	186	LEU
1	B	197	LEU
1	B	198	ARG
1	B	201	THR
1	B	206	THR
2	C	6	PHE
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	39	ARG
2	C	41	ASN
2	C	42	VAL
2	C	48	PHE
2	C	52	PHE
2	C	75	GLU
2	C	80	GLN
2	C	88	LEU
2	C	89	THR
2	C	94	LEU
2	C	95	TYR
2	C	98	LEU
2	C	104	ASP
2	C	105	THR
2	C	113	VAL
2	C	115	LEU
2	C	122	THR
2	C	124	ASP
2	C	133	ASP
2	C	137	VAL
2	C	138	SER
2	C	141	HIS
2	C	142	ARG
2	C	158	TYR
2	C	165	LEU
2	C	168	ARG
2	C	181	VAL
2	C	182	VAL
2	C	184	MET

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Mol	Chain	Res	Type
2	C	188	LYS
2	C	190	LYS
2	C	191	PHE
2	C	194	VAL
2	C	198	ARG
2	C	200	LEU
2	C	205	GLU
2	C	210	GLU
2	C	216	GLU
2	C	222	MET
2	C	224	GLU
2	C	230	ARG
2	C	235	LEU
2	C	237	ARG
2	C	238	LEU
2	C	241	LEU
2	C	243	ARG
2	C	264	PRO
2	C	267	TYR
2	C	268	ASP
2	C	283	ILE
2	C	285	LEU
2	C	290	LEU
2	C	292	ARG
2	C	293	PHE
2	C	294	GLU
2	C	297	GLU
2	C	309	TYR
2	C	310	LEU
2	C	314	THR
2	C	325	ILE
2	C	328	LEU
2	C	343	GLN
2	C	345	ARG
2	C	348	LEU
2	C	359	MET
2	C	360	LEU
2	C	365	ASP
2	C	368	THR
2	C	369	PRO
2	C	374	ASN
2	C	376	ARG

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Mol	Chain	Res	Type
2	C	383	ARG
2	C	393	GLN
2	C	394	PHE
2	C	400	PRO
2	C	413	LEU
2	C	419	THR
2	C	421	GLU
2	C	422	ARG
2	C	425	PHE
2	C	433	THR
2	C	453	THR
2	C	455	LEU
2	C	462	ASP
2	C	466	PHE
2	C	474	VAL
2	C	480	THR
2	C	481	ASP
2	C	486	MET
2	C	498	GLN
2	C	500	ASN
2	C	503	LEU
2	C	507	ARG
2	C	523	ILE
2	C	533	ASP
2	C	545	ASN
2	C	554	ASP
2	C	557	ARG
2	C	579	VAL
2	C	609	ASN
2	C	614	ARG
2	C	621	VAL
2	C	631	SER
2	C	632	ASN
2	C	635	THR
2	C	640	ARG
2	C	642	ARG
2	C	645	VAL
2	C	654	LEU
2	C	657	ASP
2	C	662	GLU
2	C	668	LEU
2	C	679	PHE

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Mol	Chain	Res	Type
2	C	685	GLU
2	C	691	SER
2	C	695	LEU
2	C	699	PHE
2	C	704	HIS
2	C	714	ASP
2	C	722	ILE
2	C	725	ASP
2	C	727	PRO
2	C	728	HIS
2	C	729	LEU
2	C	738	ASP
2	C	740	GLU
2	C	794	PRO
2	C	796	GLU
2	C	803	THR
2	C	805	ARG
2	C	807	ARG
2	C	829	GLN
2	C	839	LEU
2	C	863	ASP
2	C	869	VAL
2	C	870	ILE
2	C	881	ASN
2	C	884	GLN
2	C	904	PRO
2	C	920	GLN
2	C	923	GLU
2	C	929	ARG
2	C	938	LYS
2	C	939	ARG
2	C	942	GLU
2	C	946	ARG
2	C	950	LEU
2	C	952	LEU
2	C	958	THR
2	C	963	LEU
2	C	969	GLN
2	C	975	TYR
2	C	981	GLU
2	C	988	VAL
2	C	989	VAL

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Mol	Chain	Res	Type
2	C	995	MET
2	C	999	HIS
2	C	1001	VAL
2	C	1004	LYS
2	C	1008	ARG
2	C	1010	THR
2	C	1012	PRO
2	C	1021	LEU
2	C	1052	MET
2	C	1063	ARG
2	C	1088	LEU
2	C	1092	LEU
2	C	1097	LEU
2	C	1105	LYS
2	C	1111	ILE
3	D	6	ARG
3	D	21	TRP
3	D	37	LEU
3	D	41	ARG
3	D	47	GLU
3	D	52	PRO
3	D	55	ASP
3	D	95	LEU
3	D	98	PRO
3	D	102	ILE
3	D	108	VAL
3	D	112	ILE
3	D	127	LEU
3	D	128	TYR
3	D	134	VAL
3	D	138	LYS
3	D	141	ILE
3	D	142	LEU
3	D	143	ASN
3	D	145	VAL
3	D	149	LYS
3	D	151	GLN
3	D	152	LEU
3	D	153	LEU
3	D	161	LEU
3	D	162	ARG
3	D	165	LYS

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Mol	Chain	Res	Type
3	D	171	LEU
3	D	205	TYR
3	D	213	VAL
3	D	349	PRO
3	D	351	MET
3	D	361	VAL
3	D	387	LEU
3	D	392	SER
3	D	394	LEU
3	D	423	ASP
3	D	434	ARG
3	D	451	ASP
3	D	452	ILE
3	D	456	MET
3	D	465	LEU
3	D	469	ASP
3	D	470	LEU
3	D	471	GLU
3	D	486	ARG
3	D	489	ARG
3	D	504	ASP
3	D	511	TRP
3	D	512	MET
3	D	525	ARG
3	D	539	ASP
3	D	546	ARG
3	D	549	ASN
3	D	581	LEU
3	D	594	PRO
3	D	614	PHE
3	D	624	ASP
3	D	631	ILE
3	D	639	LEU
3	D	641	GLN
3	D	642	CYS
3	D	651	GLU
3	D	652	LEU
3	D	660	LYS
3	D	681	ARG
3	D	688	TRP
3	D	701	LEU
3	D	703	ASN

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Mol	Chain	Res	Type
3	D	709	HIS
3	D	710	ARG
3	D	734	GLU
3	D	747	VAL
3	D	749	VAL
3	D	754	PHE
3	D	764	LEU
3	D	765	SER
3	D	772	PRO
3	D	778	LEU
3	D	783	ARG
3	D	785	ILE
3	D	791	TYR
3	D	799	LYS
3	D	804	LEU
3	D	805	GLU
3	D	808	THR
3	D	824	ASN
3	D	833	GLU
3	D	838	ARG
3	D	847	ASP
3	D	863	VAL
3	D	864	VAL
3	D	879	ARG
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	900	ILE
3	D	902	LEU
3	D	914	LEU
3	D	920	LEU
3	D	922	LEU
3	D	925	GLU
3	D	927	THR
3	D	947	ILE
3	D	953	ASP
3	D	964	LEU
3	D	970	LYS
3	D	982	PHE
3	D	983	LEU
3	D	988	ARG
3	D	991	GLN

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Mol	Chain	Res	Type
3	D	999	THR
3	D	1001	GLU
3	D	1029	ARG
3	D	1031	ASN
3	D	1032	PRO
3	D	1033	GLN
3	D	1041	LEU
3	D	1042	ARG
3	D	1053	PHE
3	D	1062	ARG
3	D	1068	LEU
3	D	1078	ARG
3	D	1083	ASP
3	D	1087	ARG
3	D	1090	ASP
3	D	1093	TYR
3	D	1095	THR
3	D	1096	ARG
3	D	1103	HIS
3	D	1108	ARG
3	D	1109	GLU
3	D	1118	ILE
3	D	1122	LEU
3	D	1126	ASP
3	D	1127	GLU
3	D	1128	VAL
3	D	1130	ARG
3	D	1131	SER
3	D	1137	ARG
3	D	1161	GLU
3	D	1165	TYR
3	D	1166	LEU
3	D	1183	ILE
3	D	1184	GLN
3	D	1191	PRO
3	D	1194	CYS
3	D	1197	ARG
3	D	1207	TYR
3	D	1208	ASP
3	D	1210	SER
3	D	1236	LEU
3	D	1251	ASP

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Mol	Chain	Res	Type
3	D	1252	ILE
3	D	1254	GLN
3	D	1262	LEU
3	D	1278	ASP
3	D	1299	PHE
3	D	1306	PRO
3	D	1311	LEU
3	D	1314	LYS
3	D	1320	GLU
3	D	1325	LEU
3	D	1327	ARG
3	D	1337	GLU
3	D	1342	GLU
3	D	1355	VAL
3	D	1382	THR
3	D	1388	ARG
3	D	1396	GLU
3	D	1410	GLU
3	D	1415	VAL
3	D	1424	VAL
3	D	1434	TRP
3	D	1436	SER
3	D	1440	PHE
3	D	1441	GLN
3	D	1459	LEU
3	D	1465	ASN
3	D	1472	ILE
3	D	1476	THR
3	D	1483	PHE
3	D	1488	ASP
3	D	1492	LEU
3	D	1496	GLU
4	E	7	ASP
4	E	20	THR
4	E	32	ARG
4	E	35	PHE
4	E	36	LYS
4	E	44	GLU
4	E	51	LEU
4	E	52	GLU
4	E	62	THR
4	E	73	LEU

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Mol	Chain	Res	Type
1	F	7	LYS
1	F	19	GLU
1	F	20	TYR
1	F	28	LEU
1	F	30	ARG
1	F	47	SER
1	F	62	LEU
1	F	65	PHE
1	F	74	ASP
1	F	80	LEU
1	F	92	PRO
1	F	96	THR
1	F	100	LEU
1	F	101	LEU
1	F	113	ASP
1	F	123	MET
1	F	126	ASP
1	F	141	GLU
1	F	143	ARG
1	F	161	ARG
1	F	163	ASN
1	F	165	ILE
1	F	175	ARG
1	F	180	GLN
1	F	183	ASP
1	F	184	THR
1	F	186	LEU
1	F	189	ARG
1	F	206	THR
1	G	18	ARG
1	G	20	TYR
1	G	25	LEU
1	G	34	VAL
1	G	42	ARG
1	G	51	THR
1	G	55	SER
1	G	60	ASP
1	G	62	LEU
1	G	65	PHE
1	G	67	THR
1	G	74	ASP
1	G	79	ILE

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Mol	Chain	Res	Type
1	G	95	GLN
1	G	104	GLU
1	G	119	ASP
1	G	123	MET
1	G	126	ASP
1	G	137	ARG
1	G	145	ASP
1	G	159	LYS
1	G	162	ILE
1	G	165	ILE
1	G	179	PHE
1	G	180	GLN
1	G	184	THR
1	G	185	ARG
1	G	186	LEU
1	G	197	LEU
1	G	198	ARG
1	G	201	THR
1	G	206	THR
2	H	5	ARG
2	H	6	PHE
2	H	10	ARG
2	H	13	ILE
2	H	16	PRO
2	H	19	THR
2	H	21	ILE
2	H	26	TYR
2	H	30	LEU
2	H	31	GLN
2	H	34	VAL
2	H	39	ARG
2	H	41	ASN
2	H	48	PHE
2	H	52	PHE
2	H	56	GLU
2	H	77	PRO
2	H	78	PHE
2	H	88	LEU
2	H	91	GLN
2	H	94	LEU
2	H	95	TYR
2	H	98	LEU

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Mol	Chain	Res	Type
2	H	105	THR
2	H	115	LEU
2	H	124	ASP
2	H	126	SER
2	H	137	VAL
2	H	142	ARG
2	H	158	TYR
2	H	177	GLU
2	H	178	PRO
2	H	188	LYS
2	H	189	ARG
2	H	190	LYS
2	H	191	PHE
2	H	193	LEU
2	H	194	VAL
2	H	198	ARG
2	H	203	ASP
2	H	205	GLU
2	H	206	THR
2	H	214	TYR
2	H	225	SER
2	H	230	ARG
2	H	237	ARG
2	H	238	LEU
2	H	241	LEU
2	H	250	ARG
2	H	265	ARG
2	H	266	ARG
2	H	267	TYR
2	H	278	GLU
2	H	281	LEU
2	H	283	ILE
2	H	285	LEU
2	H	288	ARG
2	H	289	THR
2	H	290	LEU
2	H	292	ARG
2	H	293	PHE
2	H	294	GLU
2	H	298	PHE
2	H	335	THR
2	H	343	GLN

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Mol	Chain	Res	Type
2	H	345	ARG
2	H	356	ARG
2	H	358	ARG
2	H	359	MET
2	H	360	LEU
2	H	365	ASP
2	H	368	THR
2	H	369	PRO
2	H	371	LYS
2	H	374	ASN
2	H	376	ARG
2	H	383	ARG
2	H	388	ARG
2	H	390	GLN
2	H	393	GLN
2	H	394	PHE
2	H	419	THR
2	H	422	ARG
2	H	425	PHE
2	H	433	THR
2	H	453	THR
2	H	455	LEU
2	H	463	GLU
2	H	466	PHE
2	H	480	THR
2	H	489	THR
2	H	492	ASP
2	H	500	ASN
2	H	503	LEU
2	H	523	ILE
2	H	533	ASP
2	H	545	ASN
2	H	548	PRO
2	H	554	ASP
2	H	557	ARG
2	H	579	VAL
2	H	586	ARG
2	H	600	ASP
2	H	609	ASN
2	H	614	ARG
2	H	620	LEU
2	H	621	VAL

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Mol	Chain	Res	Type
2	H	631	SER
2	H	632	ASN
2	H	635	THR
2	H	640	ARG
2	H	642	ARG
2	H	645	VAL
2	H	654	LEU
2	H	657	ASP
2	H	662	GLU
2	H	668	LEU
2	H	679	PHE
2	H	685	GLU
2	H	691	SER
2	H	695	LEU
2	H	701	THR
2	H	704	HIS
2	H	714	ASP
2	H	722	ILE
2	H	727	PRO
2	H	729	LEU
2	H	738	ASP
2	H	740	GLU
2	H	794	PRO
2	H	796	GLU
2	H	803	THR
2	H	805	ARG
2	H	807	ARG
2	H	839	LEU
2	H	863	ASP
2	H	869	VAL
2	H	870	ILE
2	H	881	ASN
2	H	884	GLN
2	H	904	PRO
2	H	920	GLN
2	H	923	GLU
2	H	929	ARG
2	H	938	LYS
2	H	939	ARG
2	H	942	GLU
2	H	946	ARG
2	H	950	LEU

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Mol	Chain	Res	Type
2	H	952	LEU
2	H	958	THR
2	H	963	LEU
2	H	969	GLN
2	H	975	TYR
2	H	981	GLU
2	H	988	VAL
2	H	989	VAL
2	H	995	MET
2	H	999	HIS
2	H	1004	LYS
2	H	1012	PRO
2	H	1014	SER
2	H	1026	GLN
2	H	1050	GLN
2	H	1060	ILE
2	H	1063	ARG
2	H	1088	LEU
2	H	1092	LEU
2	H	1097	LEU
2	H	1105	LYS
2	H	1110	ASP
2	H	1111	ILE
2	H	1112	PHE
3	I	3	LYS
3	I	5	VAL
3	I	6	ARG
3	I	10	ILE
3	I	21	TRP
3	I	32	ILE
3	I	37	LEU
3	I	40	GLU
3	I	41	ARG
3	I	47	GLU
3	I	84	ILE
3	I	85	VAL
3	I	87	ARG
3	I	89	ARG
3	I	95	LEU
3	I	98	PRO
3	I	102	ILE
3	I	108	VAL

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Mol	Chain	Res	Type
3	I	112	ILE
3	I	127	LEU
3	I	128	TYR
3	I	134	VAL
3	I	138	LYS
3	I	141	ILE
3	I	142	LEU
3	I	143	ASN
3	I	148	GLU
3	I	151	GLN
3	I	152	LEU
3	I	153	LEU
3	I	154	THR
3	I	157	GLU
3	I	160	GLU
3	I	163	TYR
3	I	181	ASP
3	I	199	LEU
3	I	205	TYR
3	I	206	ARG
3	I	207	PHE
3	I	390	PRO
3	I	394	LEU
3	I	405	ASP
3	I	406	ASP
3	I	419	ASP
3	I	434	ARG
3	I	438	ASP
3	I	451	ASP
3	I	452	ILE
3	I	456	MET
3	I	465	LEU
3	I	469	ASP
3	I	471	GLU
3	I	489	ARG
3	I	504	ASP
3	I	511	TRP
3	I	512	MET
3	I	522	PRO
3	I	524	LEU
3	I	525	ARG
3	I	539	ASP

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Mol	Chain	Res	Type
3	I	551	ASN
3	I	564	GLU
3	I	594	PRO
3	I	598	ARG
3	I	600	LEU
3	I	602	SER
3	I	614	PHE
3	I	618	LEU
3	I	619	LEU
3	I	621	LYS
3	I	622	ARG
3	I	631	ILE
3	I	639	LEU
3	I	641	GLN
3	I	642	CYS
3	I	651	GLU
3	I	652	LEU
3	I	660	LYS
3	I	685	ASP
3	I	686	GLU
3	I	688	TRP
3	I	701	LEU
3	I	703	ASN
3	I	709	HIS
3	I	710	ARG
3	I	734	GLU
3	I	747	VAL
3	I	749	VAL
3	I	754	PHE
3	I	764	LEU
3	I	765	SER
3	I	772	PRO
3	I	778	LEU
3	I	781	PRO
3	I	783	ARG
3	I	784	ASP
3	I	791	TYR
3	I	795	VAL
3	I	799	LYS
3	I	804	LEU
3	I	824	ASN
3	I	833	GLU

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Mol	Chain	Res	Type
3	I	838	ARG
3	I	847	ASP
3	I	863	VAL
3	I	864	VAL
3	I	879	ARG
3	I	890	VAL
3	I	892	ASP
3	I	897	TRP
3	I	900	ILE
3	I	902	LEU
3	I	914	LEU
3	I	920	LEU
3	I	922	LEU
3	I	925	GLU
3	I	927	THR
3	I	964	LEU
3	I	970	LYS
3	I	982	PHE
3	I	983	LEU
3	I	988	ARG
3	I	991	GLN
3	I	999	THR
3	I	1001	GLU
3	I	1025	GLN
3	I	1029	ARG
3	I	1031	ASN
3	I	1041	LEU
3	I	1042	ARG
3	I	1053	PHE
3	I	1062	ARG
3	I	1068	LEU
3	I	1078	ARG
3	I	1083	ASP
3	I	1087	ARG
3	I	1088	THR
3	I	1090	ASP
3	I	1096	ARG
3	I	1097	LYS
3	I	1100	ASP
3	I	1101	VAL
3	I	1102	THR
3	I	1103	HIS

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Mol	Chain	Res	Type
3	I	1108	ARG
3	I	1109	GLU
3	I	1119	SER
3	I	1126	ASP
3	I	1130	ARG
3	I	1151	ARG
3	I	1161	GLU
3	I	1166	LEU
3	I	1183	ILE
3	I	1191	PRO
3	I	1194	CYS
3	I	1197	ARG
3	I	1207	TYR
3	I	1208	ASP
3	I	1237	THR
3	I	1262	LEU
3	I	1286	THR
3	I	1293	PHE
3	I	1299	PHE
3	I	1304	LYS
3	I	1305	LEU
3	I	1307	LYS
3	I	1308	GLU
3	I	1311	LEU
3	I	1314	LYS
3	I	1320	GLU
3	I	1325	LEU
3	I	1327	ARG
3	I	1337	GLU
3	I	1342	GLU
3	I	1355	VAL
3	I	1382	THR
3	I	1387	SER
3	I	1388	ARG
3	I	1389	LEU
3	I	1396	GLU
3	I	1410	GLU
3	I	1415	VAL
3	I	1424	VAL
3	I	1425	THR
3	I	1434	TRP
3	I	1440	PHE

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Mol	Chain	Res	Type
3	I	1466	VAL
3	I	1472	ILE
3	I	1485	GLN
3	I	1492	LEU
4	J	18	ARG
4	J	20	THR
4	J	35	PHE
4	J	37	ASN
4	J	43	GLU
4	J	44	GLU
4	J	52	GLU
4	J	62	THR
4	J	77	GLU
4	J	86	GLN
1	K	12	THR
1	K	16	GLN
1	K	20	TYR
1	K	22	GLU
1	K	26	GLU
1	K	30	ARG
1	K	47	SER
1	K	62	LEU
1	K	65	PHE
1	K	74	ASP
1	K	79	ILE
1	K	92	PRO
1	K	96	THR
1	K	100	LEU
1	K	101	LEU
1	K	113	ASP
1	K	123	MET
1	K	126	ASP
1	K	141	GLU
1	K	143	ARG
1	K	161	ARG
1	K	163	ASN
1	K	165	ILE
1	K	175	ARG
1	K	180	GLN
1	K	181	VAL
1	K	183	ASP
1	K	188	GLN

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Mol	Chain	Res	Type
1	K	189	ARG
1	K	206	THR
1	K	219	ARG
1	K	229	GLN
1	L	18	ARG
1	L	20	TYR
1	L	25	LEU
1	L	35	THR
1	L	54	THR
1	L	60	ASP
1	L	62	LEU
1	L	65	PHE
1	L	66	SER
1	L	67	THR
1	L	73	GLU
1	L	79	ILE
1	L	80	LEU
1	L	84	GLU
1	L	95	GLN
1	L	104	GLU
1	L	115	LEU
1	L	123	MET
1	L	154	GLU
1	L	159	LYS
1	L	161	ARG
1	L	162	ILE
1	L	165	ILE
1	L	179	PHE
1	L	180	GLN
1	L	184	THR
1	L	185	ARG
1	L	186	LEU
1	L	197	LEU
1	L	198	ARG
1	L	201	THR
1	L	206	THR
2	M	6	PHE
2	M	26	TYR
2	M	33	ASP
2	M	48	PHE
2	M	52	PHE
2	M	56	GLU

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Mol	Chain	Res	Type
2	M	72	ARG
2	M	75	GLU
2	M	84	ARG
2	M	88	LEU
2	M	89	THR
2	M	94	LEU
2	M	97	ARG
2	M	115	LEU
2	M	124	ASP
2	M	126	SER
2	M	141	HIS
2	M	142	ARG
2	M	158	TYR
2	M	172	ILE
2	M	177	GLU
2	M	187	ASN
2	M	188	LYS
2	M	190	LYS
2	M	192	PRO
2	M	193	LEU
2	M	196	LEU
2	M	203	ASP
2	M	205	GLU
2	M	207	LEU
2	M	209	ARG
2	M	214	TYR
2	M	225	SER
2	M	235	LEU
2	M	236	ILE
2	M	237	ARG
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU
2	M	242	LEU
2	M	252	LYS
2	M	257	VAL
2	M	261	ILE
2	M	263	ASP
2	M	267	TYR
2	M	281	LEU
2	M	283	ILE
2	M	290	LEU

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Mol	Chain	Res	Type
2	M	293	PHE
2	M	298	PHE
2	M	304	LEU
2	M	313	LEU
2	M	314	THR
2	M	321	GLU
2	M	323	ASP
2	M	331	ARG
2	M	335	THR
2	M	343	GLN
2	M	345	ARG
2	M	359	MET
2	M	361	MET
2	M	365	ASP
2	M	367	LEU
2	M	368	THR
2	M	369	PRO
2	M	374	ASN
2	M	375	SER
2	M	376	ARG
2	M	383	ARG
2	M	388	ARG
2	M	392	SER
2	M	394	PHE
2	M	419	THR
2	M	422	ARG
2	M	433	THR
2	M	453	THR
2	M	455	LEU
2	M	460	ARG
2	M	469	THR
2	M	480	THR
2	M	481	ASP
2	M	489	THR
2	M	523	ILE
2	M	533	ASP
2	M	545	ASN
2	M	554	ASP
2	M	557	ARG
2	M	579	VAL
2	M	586	ARG
2	M	587	VAL

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Mol	Chain	Res	Type
2	M	590	ASP
2	M	592	LEU
2	M	600	ASP
2	M	607	ASP
2	M	611	ILE
2	M	617	ASP
2	M	620	LEU
2	M	621	VAL
2	M	631	SER
2	M	632	ASN
2	M	635	THR
2	M	640	ARG
2	M	642	ARG
2	M	645	VAL
2	M	654	LEU
2	M	657	ASP
2	M	662	GLU
2	M	668	LEU
2	M	679	PHE
2	M	685	GLU
2	M	691	SER
2	M	695	LEU
2	M	699	PHE
2	M	701	THR
2	M	702	SER
2	M	704	HIS
2	M	714	ASP
2	M	722	ILE
2	M	727	PRO
2	M	729	LEU
2	M	738	ASP
2	M	740	GLU
2	M	788	THR
2	M	794	PRO
2	M	796	GLU
2	M	803	THR
2	M	805	ARG
2	M	807	ARG
2	M	825	VAL
2	M	839	LEU
2	M	863	ASP
2	M	869	VAL

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Mol	Chain	Res	Type
2	M	870	ILE
2	M	881	ASN
2	M	884	GLN
2	M	904	PRO
2	M	920	GLN
2	M	923	GLU
2	M	929	ARG
2	M	938	LYS
2	M	939	ARG
2	M	942	GLU
2	M	946	ARG
2	M	950	LEU
2	M	952	LEU
2	M	958	THR
2	M	963	LEU
2	M	969	GLN
2	M	975	TYR
2	M	981	GLU
2	M	988	VAL
2	M	989	VAL
2	M	995	MET
2	M	999	HIS
2	M	1004	LYS
2	M	1005	MET
2	M	1006	HIS
2	M	1012	PRO
2	M	1050	GLN
2	M	1058	ASP
2	M	1064	ASN
2	M	1088	LEU
2	M	1092	LEU
2	M	1097	LEU
2	M	1105	LYS
2	M	1111	ILE
3	N	6	ARG
3	N	21	TRP
3	N	34	TYR
3	N	37	LEU
3	N	41	ARG
3	N	47	GLU
3	N	53	ILE
3	N	55	ASP

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Mol	Chain	Res	Type
3	N	82	LYS
3	N	86	ARG
3	N	87	ARG
3	N	88	TYR
3	N	95	LEU
3	N	98	PRO
3	N	102	ILE
3	N	108	VAL
3	N	112	ILE
3	N	127	LEU
3	N	128	TYR
3	N	129	PHE
3	N	130	SER
3	N	131	LYS
3	N	135	LEU
3	N	138	LYS
3	N	141	ILE
3	N	145	VAL
3	N	149	LYS
3	N	150	ARG
3	N	152	LEU
3	N	153	LEU
3	N	154	THR
3	N	161	LEU
3	N	163	TYR
3	N	169	TYR
3	N	176	ASP
3	N	178	LEU
3	N	189	GLN
3	N	199	LEU
3	N	205	TYR
3	N	216	VAL
3	N	340	THR
3	N	344	ASP
3	N	349	PRO
3	N	351	MET
3	N	357	GLU
3	N	372	ASP
3	N	387	LEU
3	N	394	LEU
3	N	405	ASP
3	N	419	ASP

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Mol	Chain	Res	Type
3	N	434	ARG
3	N	438	ASP
3	N	450	TYR
3	N	452	ILE
3	N	465	LEU
3	N	469	ASP
3	N	471	GLU
3	N	489	ARG
3	N	504	ASP
3	N	511	TRP
3	N	512	MET
3	N	525	ARG
3	N	538	SER
3	N	544	TYR
3	N	594	PRO
3	N	614	PHE
3	N	631	ILE
3	N	639	LEU
3	N	641	GLN
3	N	642	CYS
3	N	651	GLU
3	N	652	LEU
3	N	660	LYS
3	N	678	GLU
3	N	679	ARG
3	N	685	ASP
3	N	686	GLU
3	N	688	TRP
3	N	701	LEU
3	N	703	ASN
3	N	709	HIS
3	N	710	ARG
3	N	734	GLU
3	N	747	VAL
3	N	749	VAL
3	N	754	PHE
3	N	764	LEU
3	N	765	SER
3	N	772	PRO
3	N	778	LEU
3	N	781	PRO
3	N	783	ARG

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Mol	Chain	Res	Type
3	N	784	ASP
3	N	791	TYR
3	N	804	LEU
3	N	805	GLU
3	N	824	ASN
3	N	833	GLU
3	N	838	ARG
3	N	847	ASP
3	N	863	VAL
3	N	864	VAL
3	N	879	ARG
3	N	890	VAL
3	N	892	ASP
3	N	897	TRP
3	N	900	ILE
3	N	902	LEU
3	N	914	LEU
3	N	920	LEU
3	N	922	LEU
3	N	925	GLU
3	N	927	THR
3	N	952	ASP
3	N	964	LEU
3	N	970	LYS
3	N	982	PHE
3	N	983	LEU
3	N	988	ARG
3	N	991	GLN
3	N	999	THR
3	N	1001	GLU
3	N	1025	GLN
3	N	1029	ARG
3	N	1041	LEU
3	N	1042	ARG
3	N	1053	PHE
3	N	1062	ARG
3	N	1068	LEU
3	N	1078	ARG
3	N	1083	ASP
3	N	1087	ARG
3	N	1090	ASP
3	N	1093	TYR

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Mol	Chain	Res	Type
3	N	1095	THR
3	N	1096	ARG
3	N	1108	ARG
3	N	1109	GLU
3	N	1126	ASP
3	N	1127	GLU
3	N	1128	VAL
3	N	1135	ARG
3	N	1151	ARG
3	N	1152	GLU
3	N	1166	LEU
3	N	1183	ILE
3	N	1191	PRO
3	N	1194	CYS
3	N	1197	ARG
3	N	1207	TYR
3	N	1208	ASP
3	N	1251	ASP
3	N	1254	GLN
3	N	1262	LEU
3	N	1282	ARG
3	N	1286	THR
3	N	1297	GLU
3	N	1299	PHE
3	N	1304	LYS
3	N	1305	LEU
3	N	1307	LYS
3	N	1308	GLU
3	N	1311	LEU
3	N	1314	LYS
3	N	1320	GLU
3	N	1325	LEU
3	N	1327	ARG
3	N	1337	GLU
3	N	1342	GLU
3	N	1355	VAL
3	N	1382	THR
3	N	1386	ASP
3	N	1388	ARG
3	N	1396	GLU
3	N	1410	GLU
3	N	1415	VAL

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Mol	Chain	Res	Type
3	N	1424	VAL
3	N	1425	THR
3	N	1433	SER
3	N	1434	TRP
3	N	1440	PHE
3	N	1449	GLU
3	N	1465	ASN
3	N	1472	ILE
3	N	1476	THR
3	N	1488	ASP
3	N	1493	LYS
4	O	6	ILE
4	O	7	ASP
4	O	14	ASP
4	O	15	SER
4	O	18	ARG
4	O	31	LEU
4	O	32	ARG
4	O	41	GLU
4	O	43	GLU
4	O	44	GLU
4	O	48	MET
4	O	62	THR
4	O	73	LEU
4	O	81	PRO
4	O	86	GLN
7	X	8	THR
7	X	37	MET
7	X	41	ASP
7	X	43	TYR
7	X	48	LEU
7	X	62	ILE
7	X	77	GLU
7	X	94	PRO
7	X	102	VAL
7	X	105	VAL
7	X	113	LEU
7	X	114	ASP
7	X	115	THR
7	X	138	LEU
7	X	139	SER
7	Y	7	LEU

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Mol	Chain	Res	Type
7	Y	21	ARG
7	Y	30	THR
7	Y	37	MET
7	Y	41	ASP
7	Y	45	ASP
7	Y	54	GLU
7	Y	61	ARG
7	Y	67	ASP
7	Y	70	SER
7	Y	74	ILE
7	Y	76	GLU
7	Y	95	LEU
7	Y	98	GLU
7	Y	113	LEU
7	Y	114	ASP
7	Y	115	THR
7	Y	117	MET
7	Y	124	PRO
7	Y	138	LEU
7	Y	143	PRO
7	Y	148	GLU
7	Y	150	ARG
7	Y	154	ILE
7	Z	8	THR
7	Z	14	ARG
7	Z	21	ARG
7	Z	37	MET
7	Z	40	SER
7	Z	48	LEU
7	Z	57	ARG
7	Z	71	ARG
7	Z	77	GLU
7	Z	94	PRO
7	Z	98	GLU
7	Z	113	LEU
7	Z	114	ASP
7	Z	115	THR
7	Z	125	MET
7	Z	138	LEU
7	Z	139	SER
7	Z	154	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (252) such

sidechains are listed below:

Mol	Chain	Res	Type
1	A	63	HIS
1	A	91	ASN
1	A	124	ASN
1	A	128	HIS
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	229	GLN
1	B	16	GLN
1	B	38	ASN
1	B	95	GLN
1	B	124	ASN
1	B	163	ASN
1	B	180	GLN
1	B	227	ASN
2	C	22	GLN
2	C	41	ASN
2	C	80	GLN
2	C	91	GLN
2	C	102	HIS
2	C	117	HIS
2	C	139	GLN
2	C	343	GLN
2	C	374	ASN
2	C	390	GLN
2	C	393	GLN
2	C	406	HIS
2	C	431	HIS
2	C	434	HIS
2	C	498	GLN
2	C	556	ASN
2	C	575	GLN
2	C	633	GLN
2	C	639	GLN
2	C	670	GLN
2	C	834	GLN
2	C	860	HIS
2	C	872	ASN
2	C	899	GLN
2	C	969	GLN

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Mol	Chain	Res	Type
2	C	1047	HIS
2	C	1100	GLN
2	C	1107	ASN
3	D	33	ASN
3	D	151	GLN
3	D	166	GLN
3	D	463	GLN
3	D	541	ASN
3	D	549	ASN
3	D	560	GLN
3	D	569	ASN
3	D	703	ASN
3	D	727	GLN
3	D	744	GLN
3	D	762	GLN
3	D	824	ASN
3	D	855	HIS
3	D	909	ASN
3	D	973	GLN
3	D	976	GLN
3	D	1025	GLN
3	D	1033	GLN
3	D	1034	GLN
3	D	1184	GLN
3	D	1202	GLN
3	D	1323	GLN
3	D	1359	GLN
3	D	1367	HIS
3	D	1441	GLN
3	D	1442	ASN
4	E	28	GLN
4	E	33	HIS
4	E	37	ASN
4	E	86	GLN
1	F	38	ASN
1	F	63	HIS
1	F	91	ASN
1	F	124	ASN
1	F	128	HIS
1	F	139	ASN
1	F	156	HIS
1	F	163	ASN

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Mol	Chain	Res	Type
1	F	180	GLN
1	F	188	GLN
1	F	229	GLN
1	G	16	GLN
1	G	38	ASN
1	G	95	GLN
1	G	124	ASN
1	G	180	GLN
1	G	227	ASN
2	H	31	GLN
2	H	41	ASN
2	H	45	GLN
2	H	80	GLN
2	H	99	GLN
2	H	102	HIS
2	H	187	ASN
2	H	327	HIS
2	H	343	GLN
2	H	374	ASN
2	H	390	GLN
2	H	393	GLN
2	H	431	HIS
2	H	498	GLN
2	H	552	HIS
2	H	575	GLN
2	H	609	ASN
2	H	633	GLN
2	H	639	GLN
2	H	670	GLN
2	H	834	GLN
2	H	860	HIS
2	H	872	ASN
2	H	899	GLN
2	H	969	GLN
2	H	1030	GLN
2	H	1047	HIS
2	H	1064	ASN
2	H	1100	GLN
2	H	1107	ASN
3	I	125	GLN
3	I	151	GLN
3	I	166	GLN

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Mol	Chain	Res	Type
3	I	189	GLN
3	I	463	GLN
3	I	549	ASN
3	I	552	ASN
3	I	560	GLN
3	I	593	ASN
3	I	611	GLN
3	I	703	ASN
3	I	727	GLN
3	I	744	GLN
3	I	762	GLN
3	I	767	HIS
3	I	768	ASN
3	I	824	ASN
3	I	909	ASN
3	I	973	GLN
3	I	976	GLN
3	I	991	GLN
3	I	1025	GLN
3	I	1034	GLN
3	I	1116	ASN
3	I	1202	GLN
3	I	1235	GLN
3	I	1323	GLN
3	I	1359	GLN
3	I	1367	HIS
3	I	1441	GLN
3	I	1442	ASN
3	I	1465	ASN
3	I	1485	GLN
4	J	28	GLN
4	J	33	HIS
4	J	37	ASN
4	J	86	GLN
1	K	38	ASN
1	K	63	HIS
1	K	91	ASN
1	K	124	ASN
1	K	128	HIS
1	K	139	ASN
1	K	156	HIS
1	K	163	ASN

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Mol	Chain	Res	Type
1	K	180	GLN
1	K	229	GLN
1	L	16	GLN
1	L	95	GLN
1	L	180	GLN
1	L	227	ASN
2	M	22	GLN
2	M	31	GLN
2	M	102	HIS
2	M	219	GLN
2	M	343	GLN
2	M	374	ASN
2	M	390	GLN
2	M	393	GLN
2	M	406	HIS
2	M	431	HIS
2	M	552	HIS
2	M	556	ASN
2	M	575	GLN
2	M	633	GLN
2	M	639	GLN
2	M	670	GLN
2	M	834	GLN
2	M	860	HIS
2	M	872	ASN
2	M	899	GLN
2	M	969	GLN
2	M	1006	HIS
2	M	1030	GLN
2	M	1047	HIS
2	M	1064	ASN
2	M	1100	GLN
2	M	1107	ASN
3	N	151	GLN
3	N	166	GLN
3	N	189	GLN
3	N	463	GLN
3	N	549	ASN
3	N	560	GLN
3	N	617	ASN
3	N	669	ASN
3	N	703	ASN

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Mol	Chain	Res	Type
3	N	724	GLN
3	N	727	GLN
3	N	744	GLN
3	N	762	GLN
3	N	767	HIS
3	N	824	ASN
3	N	909	ASN
3	N	973	GLN
3	N	976	GLN
3	N	994	GLN
3	N	1025	GLN
3	N	1034	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1202	GLN
3	N	1235	GLN
3	N	1254	GLN
3	N	1323	GLN
3	N	1359	GLN
3	N	1367	HIS
3	N	1441	GLN
3	N	1442	ASN
3	N	1465	ASN
4	O	28	GLN
4	O	33	HIS
4	O	37	ASN
4	O	59	ASN
4	O	86	GLN
7	X	27	GLN
7	X	34	GLN
7	X	53	GLN
7	X	103	GLN
7	Y	17	GLN
7	Y	18	GLN
7	Y	27	GLN
7	Y	103	GLN
7	Y	132	HIS
7	Z	17	GLN
7	Z	18	GLN
7	Z	27	GLN
7	Z	34	GLN
7	Z	132	HIS

### 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
6	Q	6/32 (18%)	1 (16%)	0
6	S	7/32 (21%)	2 (28%)	0
6	U	6/32 (18%)	2 (33%)	0
All	All	19/96 (19%)	5 (26%)	0

All (5) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
6	Q	11	C
6	S	13	G
6	S	16	G
6	U	11	C
6	U	12	G

There are no RNA pucker outliers to report.

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

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

## 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

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.

No monomer is involved in short contacts.

## 5.7 Other polymers

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	223/315 (70%)	-0.14	1 (0%) 93 90	82, 143, 203, 231	0
1	B	223/315 (70%)	-0.22	1 (0%) 93 90	86, 150, 211, 231	0
1	F	223/315 (70%)	0.02	3 (1%) 79 71	88, 145, 202, 231	0
1	G	224/315 (71%)	-0.19	0 100 100	74, 150, 204, 231	0
1	K	225/315 (71%)	0.08	5 (2%) 65 56	77, 152, 205, 231	0
1	L	223/315 (70%)	-0.20	1 (0%) 93 90	71, 146, 208, 231	0
2	C	1083/1119 (96%)	-0.13	14 (1%) 79 71	46, 150, 225, 231	0
2	H	1080/1119 (96%)	-0.15	15 (1%) 78 69	32, 148, 226, 231	0
2	M	1084/1119 (96%)	-0.03	23 (2%) 67 57	51, 150, 227, 231	0
3	D	1316/1524 (86%)	-0.04	30 (2%) 64 54	91, 161, 249, 285	0
3	I	1262/1524 (82%)	0.09	54 (4%) 39 30	91, 160, 246, 285	0
3	N	1327/1524 (87%)	0.03	25 (1%) 70 61	91, 162, 250, 284	0
4	E	93/99 (93%)	0.11	2 (2%) 65 56	91, 182, 231, 231	0
4	J	93/99 (93%)	0.05	3 (3%) 51 40	98, 176, 231, 231	0
4	O	93/99 (93%)	-0.02	3 (3%) 51 40	90, 172, 231, 231	0
5	P	7/27 (25%)	0.52	0 100 100	199, 200, 200, 200	0
5	R	6/27 (22%)	1.01	0 100 100	200, 200, 200, 200	0
5	T	5/27 (18%)	0.79	0 100 100	199, 200, 200, 200	0
6	Q	7/32 (21%)	1.19	1 (14%) 4 4	195, 200, 200, 200	0
6	S	8/32 (25%)	2.35	6 (75%) 0 1	200, 200, 200, 200	0
6	U	7/32 (21%)	1.54	2 (28%) 1 2	194, 200, 200, 200	0
7	X	154/156 (98%)	0.15	7 (4%) 37 29	97, 175, 229, 231	0
7	Y	152/156 (97%)	0.16	8 (5%) 30 23	88, 174, 228, 231	0
7	Z	152/156 (97%)	0.24	7 (4%) 36 28	95, 172, 228, 231	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
All	All	9270/10761 (86%)	-0.02	211 (2%) 64 54	32, 156, 231, 285	0

All (211) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	E	56	ASP	6.3
3	I	191	LEU	5.7
3	I	1301	LYS	5.7
3	I	1292	VAL	5.6
2	C	270	GLY	5.2
2	H	270	GLY	4.8
4	E	57	ASP	4.7
6	S	10	G	4.3
4	J	56	ASP	4.3
4	O	56	ASP	4.3
2	C	757	GLY	3.9
3	I	1313	VAL	3.8
3	I	1302	GLU	3.8
2	H	812	GLY	3.8
3	N	191	LEU	3.8
3	D	1313	VAL	3.8
3	I	560	GLN	3.7
3	D	38	LYS	3.7
3	D	355	VAL	3.7
3	I	1380	GLU	3.7
3	I	176	ASP	3.7
4	J	33	HIS	3.6
3	N	165	LYS	3.6
2	M	269	LEU	3.5
2	C	268	ASP	3.5
3	I	488	ARG	3.5
3	D	369	ALA	3.5
3	D	212	ARG	3.4
7	X	118	LYS	3.4
3	I	48	ARG	3.4
3	N	1313	VAL	3.4
3	I	801	GLY	3.4
4	J	57	ASP	3.4
3	N	1308	GLU	3.4
3	I	174	GLY	3.3
3	I	184	GLU	3.3
6	S	13	G	3.3

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Mol	Chain	Res	Type	RSRZ
7	Y	83	ILE	3.3
3	I	1304	LYS	3.3
2	M	70	GLU	3.3
3	D	801	GLY	3.3
3	N	482	LYS	3.3
3	N	802	ALA	3.3
3	I	1294	VAL	3.3
2	M	268	ASP	3.3
3	N	1090	ASP	3.2
3	N	801	GLY	3.2
2	M	736	ASP	3.2
3	N	808	THR	3.2
3	I	165	LYS	3.1
3	D	444	VAL	3.1
3	D	560	GLN	3.1
7	Z	83	ILE	3.1
3	D	802	ALA	3.1
3	D	421	LEU	3.1
3	I	409	VAL	3.1
3	I	177	ALA	3.0
2	M	167	LYS	3.0
1	K	7	LYS	3.0
3	N	594	PRO	3.0
1	F	146	ARG	3.0
2	H	417	GLY	3.0
2	C	805	ARG	3.0
7	Y	156	GLY	3.0
3	I	1414	PRO	3.0
3	N	666	ILE	3.0
2	M	785	VAL	3.0
3	I	1319	VAL	2.9
3	N	397	LYS	2.9
3	I	49	ILE	2.9
6	S	11	C	2.9
2	H	821	GLU	2.9
2	M	266	ARG	2.9
3	D	368	VAL	2.9
3	N	340	THR	2.9
3	I	430	ASP	2.9
2	M	415	PRO	2.8
7	Z	104	VAL	2.8
3	N	1302	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
1	F	122	ILE	2.8
6	S	12	G	2.8
3	D	177	ALA	2.8
3	I	1308	GLU	2.8
2	C	807	ARG	2.8
6	U	12	G	2.7
1	K	182	GLU	2.7
2	H	805	ARG	2.7
3	I	1305	LEU	2.7
3	N	811	GLU	2.7
2	H	823	VAL	2.7
2	C	269	LEU	2.7
3	I	1412	LYS	2.7
3	N	1339	LYS	2.7
7	Z	117	MET	2.7
2	H	271	GLU	2.6
2	M	758	ARG	2.6
1	L	119	ASP	2.6
7	Y	129	LEU	2.6
3	I	182	GLY	2.6
3	I	192	ALA	2.6
3	I	86	ARG	2.5
2	H	733	ALA	2.5
3	I	50	PHE	2.5
2	M	418	LEU	2.5
3	I	44	LEU	2.5
2	M	786	LYS	2.5
1	F	17	GLY	2.5
2	M	244	PRO	2.5
3	D	55	ASP	2.5
3	N	1412	LYS	2.5
3	D	211	VAL	2.5
2	C	99	GLN	2.4
2	H	808	ARG	2.4
3	I	190	GLU	2.4
3	I	1276	GLU	2.4
3	N	39	PRO	2.4
3	D	37	LEU	2.4
7	X	85	LEU	2.4
7	Z	131	GLY	2.4
3	N	610	LYS	2.4
3	N	212	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
3	I	421	LEU	2.4
7	X	139	SER	2.4
3	I	802	ALA	2.4
3	D	39	PRO	2.4
7	Y	78	GLY	2.3
3	I	1421	LEU	2.3
3	D	448	GLU	2.3
3	D	85	VAL	2.3
3	I	834	THR	2.3
1	K	186	LEU	2.3
2	M	1023	GLY	2.3
2	M	714	ASP	2.3
2	M	243	ARG	2.3
3	N	345	TYR	2.3
7	Z	102	VAL	2.3
2	M	248	PRO	2.3
2	C	604	ALA	2.3
2	H	1022	GLY	2.3
2	M	930	LYS	2.3
2	C	754	ILE	2.3
6	S	16	G	2.3
3	D	1319	VAL	2.2
3	I	1303	TYR	2.2
7	Z	146	ARG	2.2
4	O	57	ASP	2.2
1	B	134	GLU	2.2
3	I	1311	LEU	2.2
7	Y	144	LYS	2.2
1	A	185	ARG	2.2
3	I	448	GLU	2.2
2	C	721	ARG	2.2
3	D	1388	ARG	2.2
3	I	189	GLN	2.2
3	I	1322	GLY	2.2
2	H	167	LYS	2.2
2	H	807	ARG	2.2
2	M	270	GLY	2.2
7	Y	147	ARG	2.2
7	Y	130	LEU	2.2
2	H	1023	GLY	2.2
7	Y	81	GLU	2.2
3	N	120	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
4	O	94	PRO	2.2
3	D	356	PRO	2.2
7	X	102	VAL	2.2
3	D	1294	VAL	2.1
3	I	796	ARG	2.1
6	U	13	G	2.1
3	I	161	LEU	2.1
3	D	1292	VAL	2.1
7	X	129	LEU	2.1
3	D	1276	GLU	2.1
3	I	43	GLY	2.1
3	I	1300	SER	2.1
2	C	423	ALA	2.1
2	M	757	GLY	2.1
2	C	641	PRO	2.1
7	Z	7	LEU	2.1
7	X	150	ARG	2.1
3	D	378	ILE	2.1
2	M	352	ALA	2.1
2	M	247	PRO	2.1
3	N	36	THR	2.1
2	M	1024	LYS	2.1
3	I	175	VAL	2.1
3	I	485	SER	2.1
3	N	164	GLY	2.1
2	C	271	GLU	2.1
3	D	1154	GLU	2.1
3	D	54	LYS	2.1
7	X	110	ALA	2.1
1	K	184	THR	2.0
3	I	484	PRO	2.0
2	M	475	VAL	2.0
6	S	9	U	2.0
2	H	757	GLY	2.0
3	I	610	LYS	2.0
3	I	1155	VAL	2.0
3	D	367	ILE	2.0
3	I	90	MET	2.0
6	Q	11	C	2.0
3	I	432	TYR	2.0
3	I	1274	ILE	2.0
3	D	1304	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
3	I	483	HIS	2.0
3	D	601	ARG	2.0
1	K	22	GLU	2.0
2	C	814	GLU	2.0
2	H	472	ARG	2.0
3	N	171	LEU	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
8	ZN	N	2001	1/1	0.90	0.07	-1.54	115,115,115,115	0
8	ZN	I	2003	1/1	0.99	0.09	-1.65	115,115,115,115	0
8	ZN	D	2002	1/1	0.96	0.03	-1.81	115,115,115,115	0
9	MG	S	2005	1/1	0.97	0.85	-	115,115,115,115	0
9	MG	N	2006	1/1	0.96	0.44	-	115,115,115,115	0
9	MG	D	2004	1/1	0.99	0.12	-	115,115,115,115	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.