



Full wwPDB EM Validation Report ⓘ

Dec 12, 2022 – 06:57 PM EST

PDB ID : 3JBT
EMDB ID : EMD-6480
Title : Atomic structure of the Apaf-1 apoptosome
Authors : Zhou, M.; Li, Y.; Hu, Q.; Bai, X.; Huang, W.; Yan, C.; Scheres, S.H.W.; Shi, Y.
Deposited on : 2015-10-15
Resolution : 3.80 Å (reported)
Based on initial models : 3J2T, 4RSZ

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

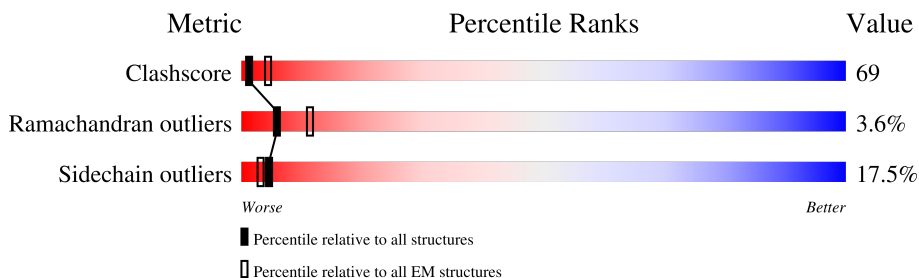
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 Å.

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



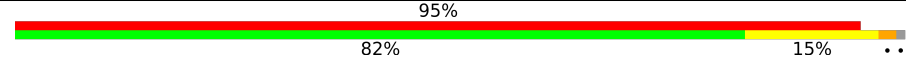
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	1260	
1	C	1260	
1	E	1260	
1	G	1260	
1	I	1260	
1	K	1260	
1	M	1260	
2	B	105	

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Mol	Chain	Length	Quality of chain
2	D	105	 <p>94% 82% 15% ..</p>
2	F	105	 <p>94% 82% 15% ..</p>
2	H	105	 <p>95% 82% 15% ..</p>
2	J	105	 <p>94% 83% 14% ..</p>
2	L	105	 <p>94% 82% 15% ..</p>
2	N	105	 <p>94% 82% 16% ..</p>

2 Entry composition i

There are 5 unique types of molecules in this entry. The entry contains 70252 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Apoptotic protease-activating factor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	1144	9139	5789	1569	1720	61	0	0
1	C	1144	9139	5789	1569	1720	61	0	0
1	E	1144	9139	5789	1569	1720	61	0	0
1	G	1144	9139	5789	1569	1720	61	0	0
1	I	1144	9139	5789	1569	1720	61	0	0
1	K	1144	9139	5789	1569	1720	61	0	0
1	M	1144	9139	5789	1569	1720	61	0	0

There are 84 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1249	LEU	-	expression tag	UNP O14727
A	1250	GLU	-	expression tag	UNP O14727
A	1251	HIS	-	expression tag	UNP O14727
A	1252	HIS	-	expression tag	UNP O14727
A	1253	HIS	-	expression tag	UNP O14727
A	1254	HIS	-	expression tag	UNP O14727
A	1255	HIS	-	expression tag	UNP O14727
A	1256	HIS	-	expression tag	UNP O14727
A	1257	HIS	-	expression tag	UNP O14727
A	1258	HIS	-	expression tag	UNP O14727
A	1259	HIS	-	expression tag	UNP O14727
A	1260	HIS	-	expression tag	UNP O14727
C	1249	LEU	-	expression tag	UNP O14727
C	1250	GLU	-	expression tag	UNP O14727
C	1251	HIS	-	expression tag	UNP O14727
C	1252	HIS	-	expression tag	UNP O14727

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1253	HIS	-	expression tag	UNP O14727
C	1254	HIS	-	expression tag	UNP O14727
C	1255	HIS	-	expression tag	UNP O14727
C	1256	HIS	-	expression tag	UNP O14727
C	1257	HIS	-	expression tag	UNP O14727
C	1258	HIS	-	expression tag	UNP O14727
C	1259	HIS	-	expression tag	UNP O14727
C	1260	HIS	-	expression tag	UNP O14727
E	1249	LEU	-	expression tag	UNP O14727
E	1250	GLU	-	expression tag	UNP O14727
E	1251	HIS	-	expression tag	UNP O14727
E	1252	HIS	-	expression tag	UNP O14727
E	1253	HIS	-	expression tag	UNP O14727
E	1254	HIS	-	expression tag	UNP O14727
E	1255	HIS	-	expression tag	UNP O14727
E	1256	HIS	-	expression tag	UNP O14727
E	1257	HIS	-	expression tag	UNP O14727
E	1258	HIS	-	expression tag	UNP O14727
E	1259	HIS	-	expression tag	UNP O14727
E	1260	HIS	-	expression tag	UNP O14727
G	1249	LEU	-	expression tag	UNP O14727
G	1250	GLU	-	expression tag	UNP O14727
G	1251	HIS	-	expression tag	UNP O14727
G	1252	HIS	-	expression tag	UNP O14727
G	1253	HIS	-	expression tag	UNP O14727
G	1254	HIS	-	expression tag	UNP O14727
G	1255	HIS	-	expression tag	UNP O14727
G	1256	HIS	-	expression tag	UNP O14727
G	1257	HIS	-	expression tag	UNP O14727
G	1258	HIS	-	expression tag	UNP O14727
G	1259	HIS	-	expression tag	UNP O14727
G	1260	HIS	-	expression tag	UNP O14727
I	1249	LEU	-	expression tag	UNP O14727
I	1250	GLU	-	expression tag	UNP O14727
I	1251	HIS	-	expression tag	UNP O14727
I	1252	HIS	-	expression tag	UNP O14727
I	1253	HIS	-	expression tag	UNP O14727
I	1254	HIS	-	expression tag	UNP O14727
I	1255	HIS	-	expression tag	UNP O14727
I	1256	HIS	-	expression tag	UNP O14727
I	1257	HIS	-	expression tag	UNP O14727
I	1258	HIS	-	expression tag	UNP O14727

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Chain	Residue	Modelled	Actual	Comment	Reference
I	1259	HIS	-	expression tag	UNP O14727
I	1260	HIS	-	expression tag	UNP O14727
K	1249	LEU	-	expression tag	UNP O14727
K	1250	GLU	-	expression tag	UNP O14727
K	1251	HIS	-	expression tag	UNP O14727
K	1252	HIS	-	expression tag	UNP O14727
K	1253	HIS	-	expression tag	UNP O14727
K	1254	HIS	-	expression tag	UNP O14727
K	1255	HIS	-	expression tag	UNP O14727
K	1256	HIS	-	expression tag	UNP O14727
K	1257	HIS	-	expression tag	UNP O14727
K	1258	HIS	-	expression tag	UNP O14727
K	1259	HIS	-	expression tag	UNP O14727
K	1260	HIS	-	expression tag	UNP O14727
M	1249	LEU	-	expression tag	UNP O14727
M	1250	GLU	-	expression tag	UNP O14727
M	1251	HIS	-	expression tag	UNP O14727
M	1252	HIS	-	expression tag	UNP O14727
M	1253	HIS	-	expression tag	UNP O14727
M	1254	HIS	-	expression tag	UNP O14727
M	1255	HIS	-	expression tag	UNP O14727
M	1256	HIS	-	expression tag	UNP O14727
M	1257	HIS	-	expression tag	UNP O14727
M	1258	HIS	-	expression tag	UNP O14727
M	1259	HIS	-	expression tag	UNP O14727
M	1260	HIS	-	expression tag	UNP O14727

- Molecule 2 is a protein called Cytochrome c.

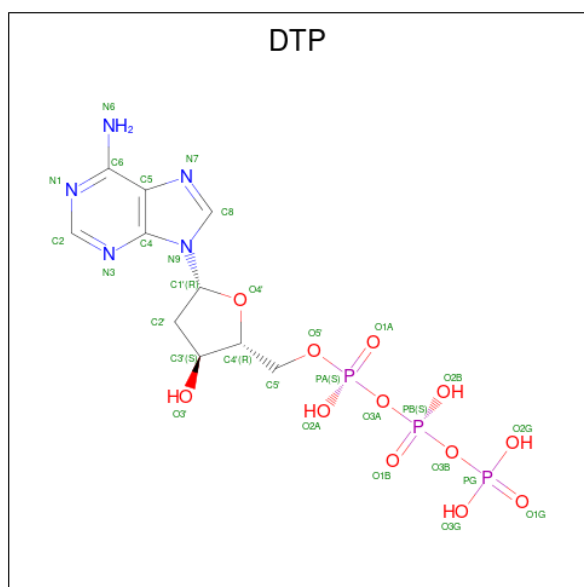
Mol	Chain	Residues	Atoms				AltConf	Trace	
2	B	104	Total	C	N	O	S	0	0
			823	524	144	151	4		
2	D	104	Total	C	N	O	S	0	0
			823	524	144	151	4		
2	F	104	Total	C	N	O	S	0	0
			823	524	144	151	4		
2	H	104	Total	C	N	O	S	0	0
			823	524	144	151	4		
2	J	104	Total	C	N	O	S	0	0
			823	524	144	151	4		
2	L	104	Total	C	N	O	S	0	0
			823	524	144	151	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	N	104	823	524	144	151	4	0	0

- Molecule 3 is 2'-DEOXYADENOSINE 5'-TRIPHOSPHATE (three-letter code: DTP) (formula: $C_{10}H_{16}N_5O_{12}P_3$).



Mol	Chain	Residues	Atoms					AltConf	
			Total	C	N	O	P		
3	A	1	Total	30	10	5	12	3	0
3	C	1	Total	30	10	5	12	3	0
3	E	1	Total	30	10	5	12	3	0
3	G	1	Total	30	10	5	12	3	0
3	I	1	Total	30	10	5	12	3	0
3	K	1	Total	30	10	5	12	3	0
3	M	1	Total	30	10	5	12	3	0

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

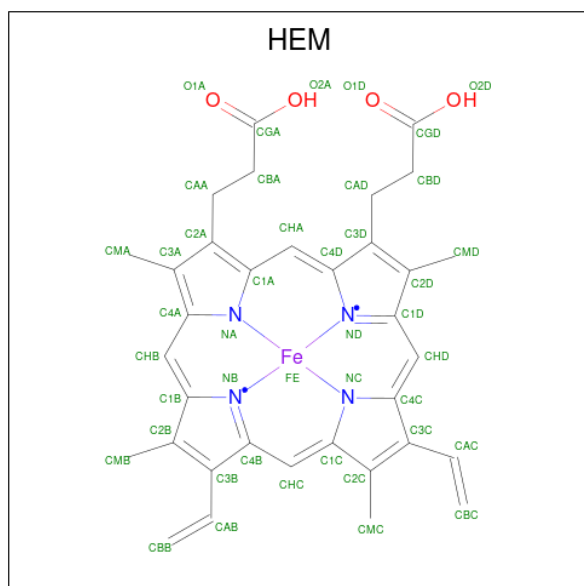
Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
4	A	1	1	1	0

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Mol	Chain	Residues	Atoms	AltConf
4	C	1	Total Mg 1 1	0
4	E	1	Total Mg 1 1	0
4	G	1	Total Mg 1 1	0
4	I	1	Total Mg 1 1	0
4	K	1	Total Mg 1 1	0
4	M	1	Total Mg 1 1	0

- Molecule 5 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: C₃₄H₃₂FeN₄O₄).

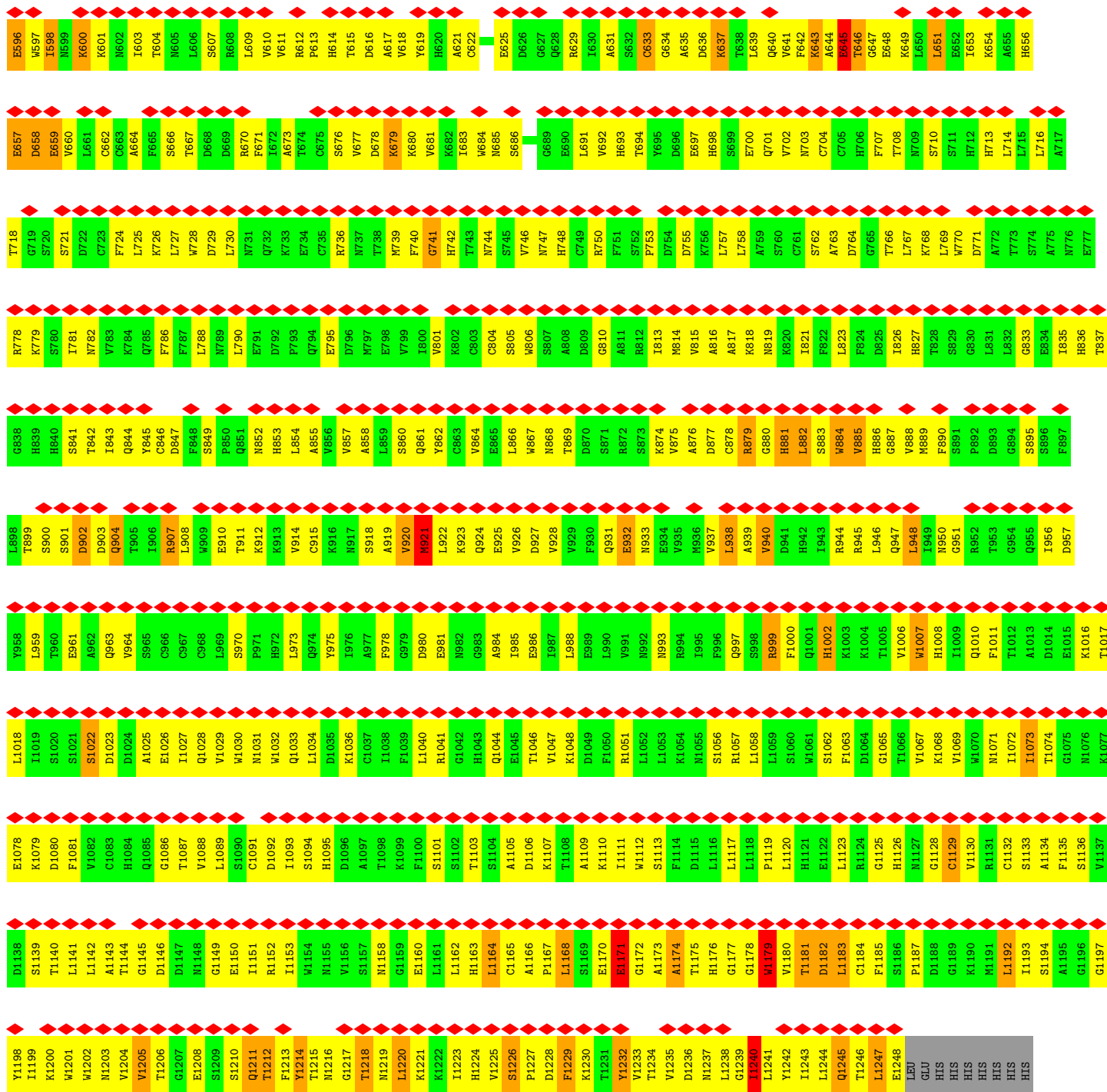


Mol	Chain	Residues	Atoms	AltConf
5	B	1	Total C Fe N O 43 34 1 4 4	0
5	D	1	Total C Fe N O 43 34 1 4 4	0
5	F	1	Total C Fe N O 43 34 1 4 4	0
5	H	1	Total C Fe N O 43 34 1 4 4	0
5	J	1	Total C Fe N O 43 34 1 4 4	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Fe	N	O	
5	L	1	Total 43	34	1	4	4	0
5	N	1	Total 43	34	1	4	4	0

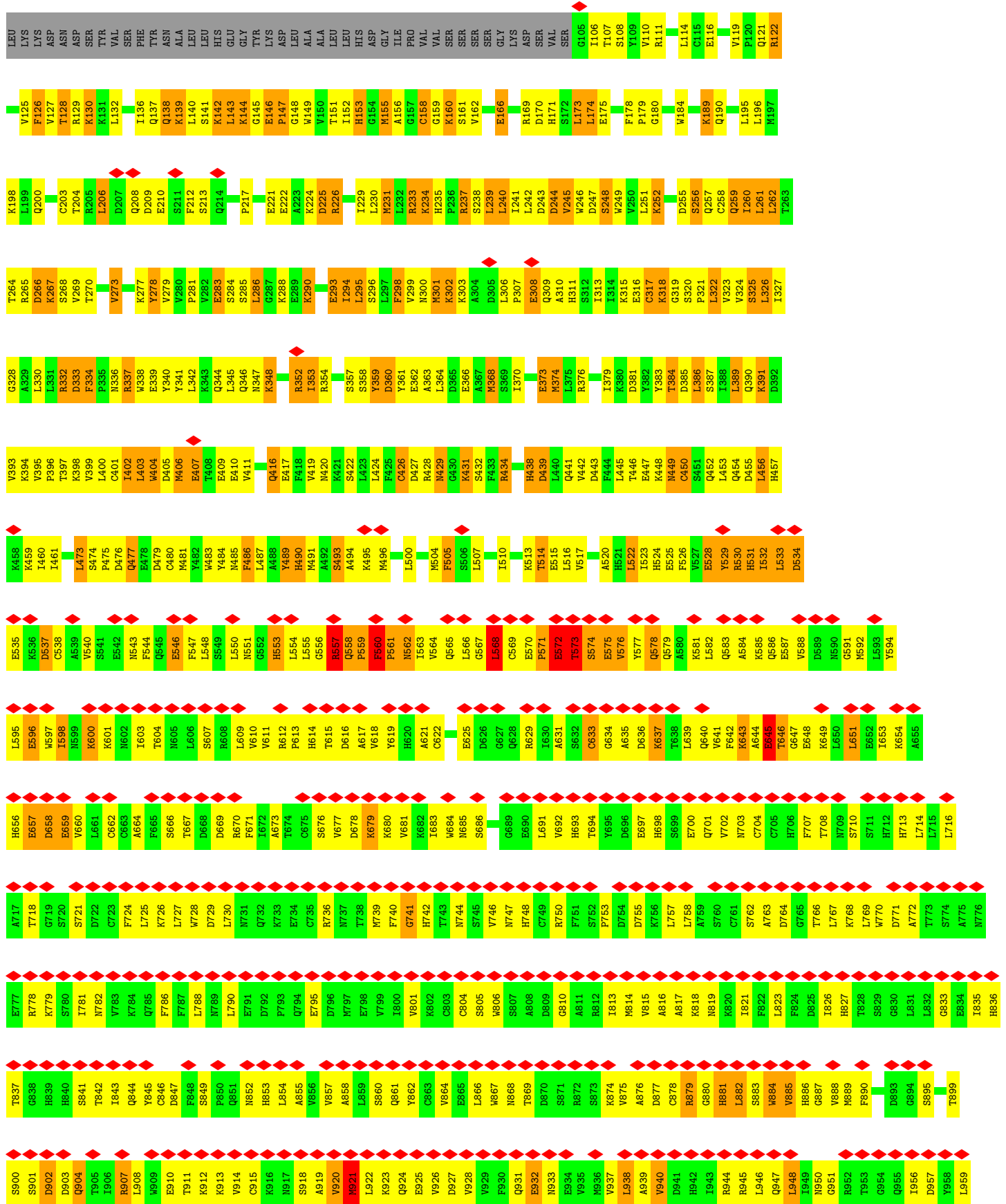


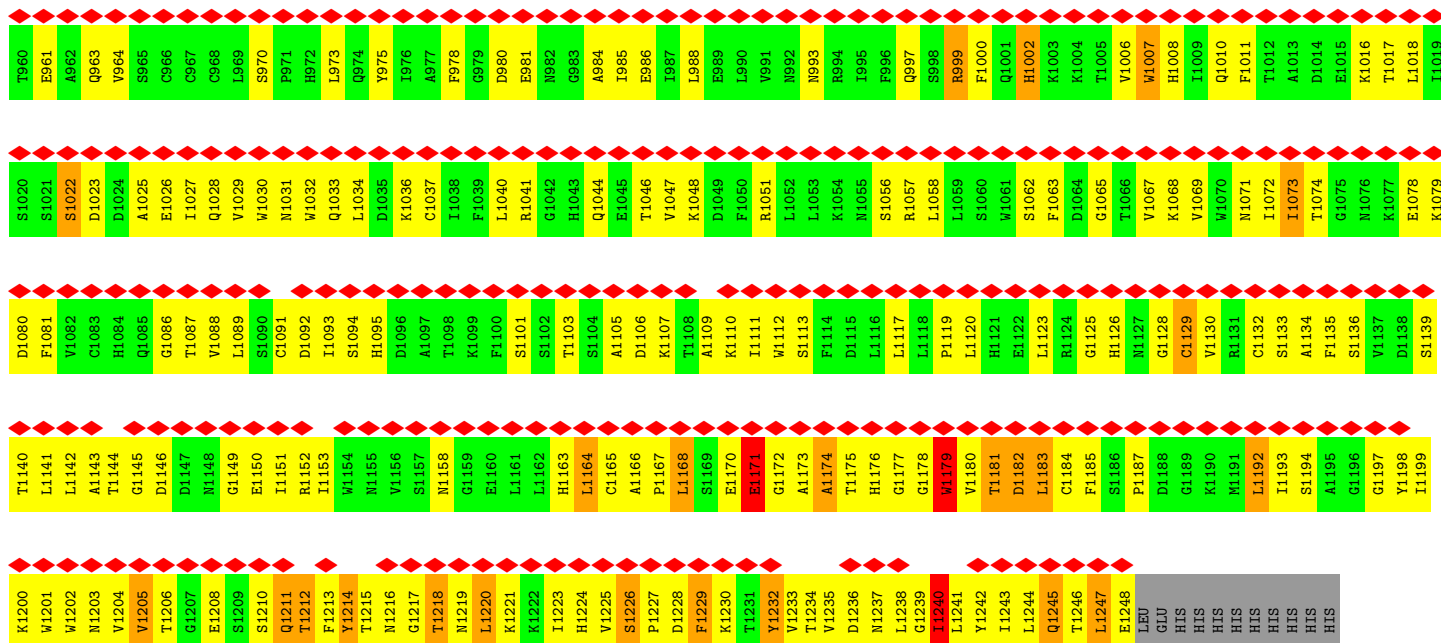
HIS
HIS
HIS

• Molecule 1: Apoptotic protease-activating factor 1



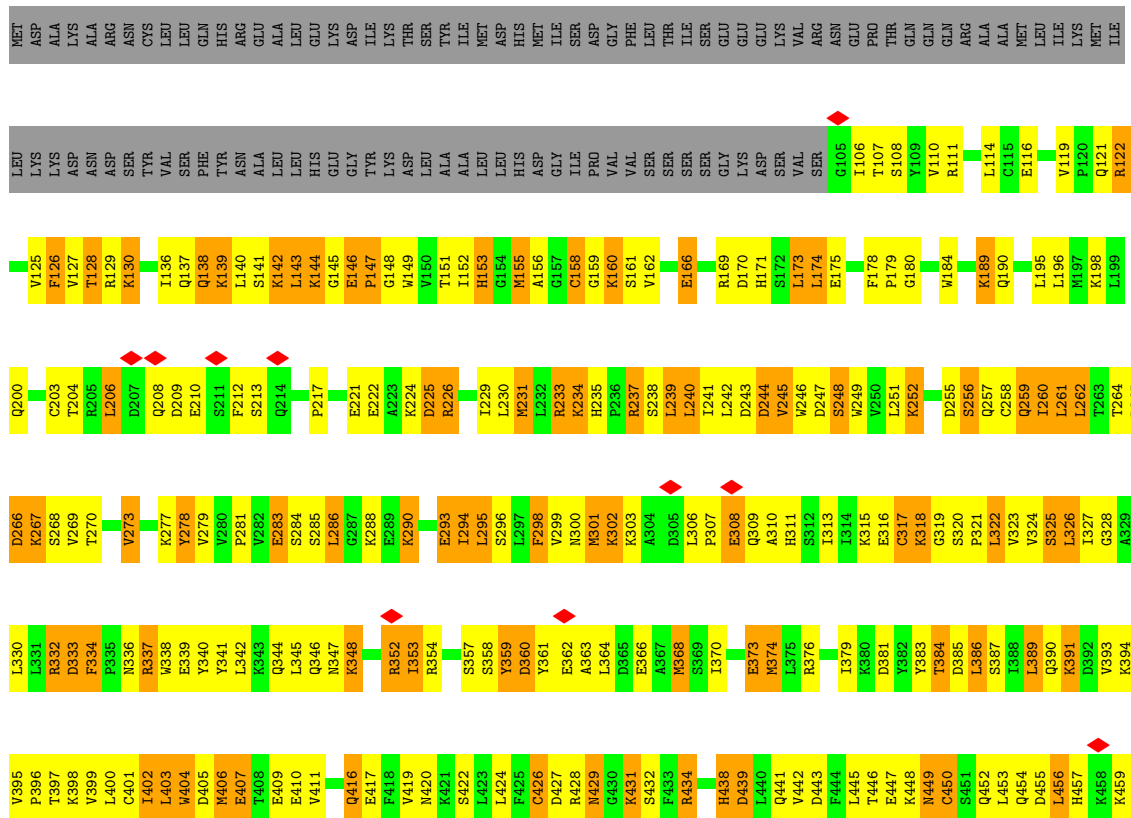
MET	ASP	ALA	LYS	ARG	ASN	CYS	LEU	LEU	GLN	HIS	ARG	GLU	ALA	LEU	LEU	GLU	LEU	GLU	LEU	GLU	GLY	PHE	LEU	LEU	THR	ILE	SER	GLU	GLU	GLU	VAL	ARG	ASN	PRO	THR	GLN	GLN	ARG	ALA	ALA	MET	LEU	ILE	LYS	MET	ILE
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HIS

• Molecule 1: Apoptotic protease-activating factor 1

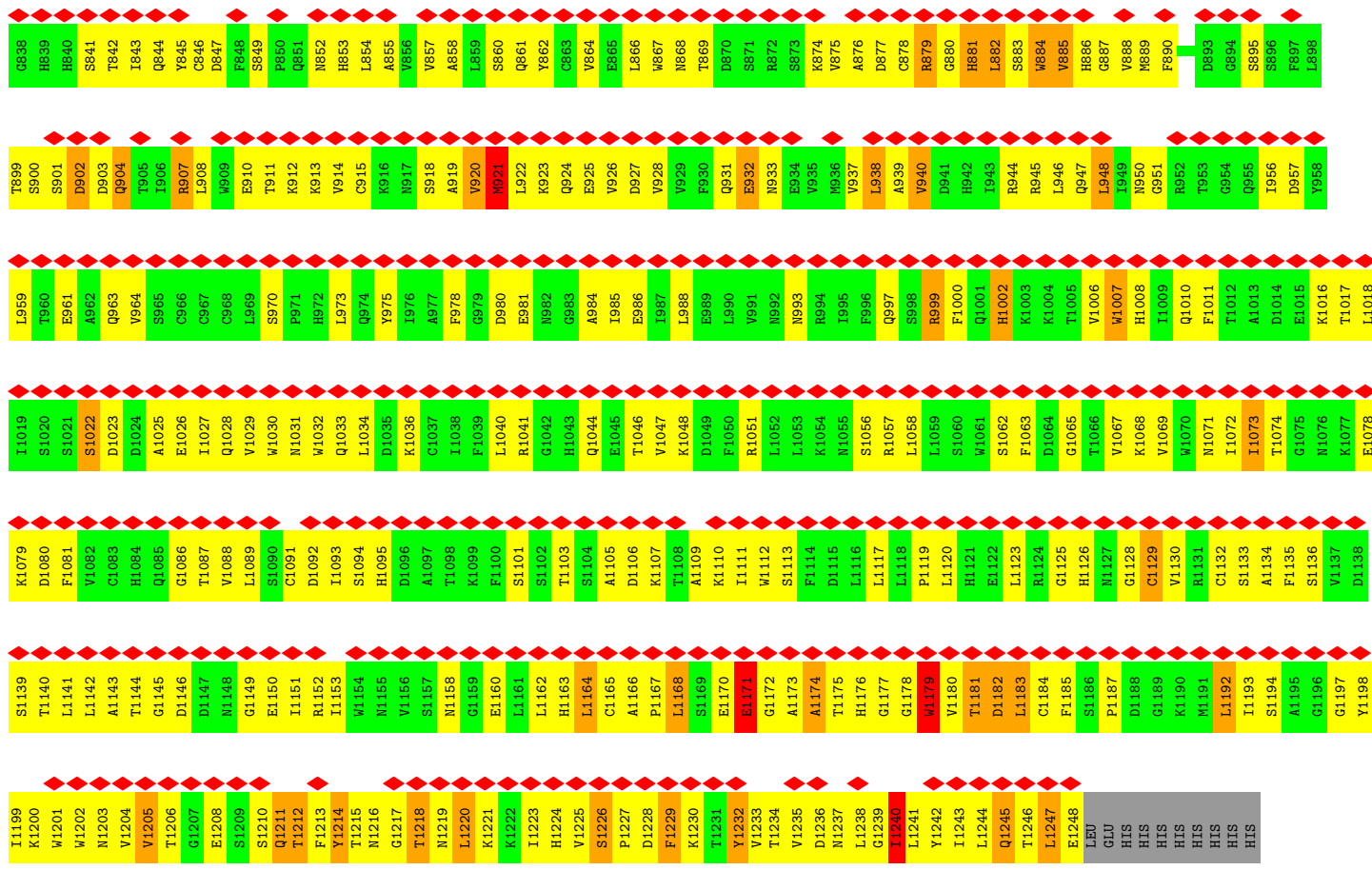


K1200	T1140	D1080	S1020	T960	S900	H839	K779	G719	D658	W597	D537	I460
W1201	L1141	F1081	S1021	E961	S901	H840	S780	S720	E659	I598	C538	I461
W1203	L1142	V1082	S1022	A962	D902	S841	I781	S721	V660	N599	A539	L473
W1204	A1143	C1083	D1023	Q963	D903	T842	N782	D722	L661	K600	S541	S474
V1205	T1144	H1084	D1024	V964	Q904	I843	V783	C723	C862	M602	E542	P475
T1206	G1145	G1085	A1025	S965	T905	Q844	K784	F724	C863	I603	F544	D476
G1207	D1146	T1087	E1026	C966	R907	X845	Q785	L725	F665	T604	Q545	Q477
S1208	H1148	V1088	C967	C967	L908	D847	F786	K726	S666	N605	E546	D479
E1209	G1149	L1089	Q968	F846	W909	F847	F787	L727	T667	L606	F547	C480
S1210	E1150	S1090	L969	S849	E910	L788	L788	W728	D668	S607	S549	M481
Q1211	I1151	C1091	S970	P850	T911	H851	M789	D729	R608	R608	M483	M483
T1212	I1152	D1092	P971	Q851	K912	H852	L790	W730	L548	L548	Y484	Y484
F1213	I1153	I1093	H972	N852	K913	H853	E791	L731	L550	L550	M485	M485
Y1214	H1154	I1094	L973	H854	V914	H855	D792	Q732	N551	N551	F486	F486
N1216	W1155	S1094	Q974	L854	C915	L854	F793	K733	H553	H553	L487	L487
G1217	M1155	H1095	Y975	A855	K916	A855	Q794	E734	R612	R612	A488	A488
T1218	V1156	D1096	I976	V856	N917	V856	E795	C735	R613	R613	H489	H489
L1219	S1157	A1097	I977	H857	S918	H857	D796	R736	H614	H614	H490	H490
L1220	M1158	T1098	F978	A858	A919	A858	M797	M737	T615	T615	S493	S493
K1221	G1159	K1099	G979	L859	W920	L859	E798	T738	D616	D616	A494	A494
I1223	E1160	F1100	L1040	S860	K921	S860	W799	M739	K680	K680	K495	K495
H1224	L1161	S1101	R1041	Y862	L922	Y862	I800	F740	P561	P561	M496	M496
V1225	L1162	S1102	G1042	N982	K923	Y862	V801	G741	N662	N662	L500	L500
P1227	H1163	T1103	H1043	G983	Q924	G983	K802	H742	A621	A621	M504	M504
D1228	L1164	S1104	Q1044	A984	V926	A984	C803	T743	Q565	Q565	F505	F505
F1229	C1165	A1105	E1045	I985	D927	I985	C804	M744	L566	L566	S506	S506
T1231	A1166	D1106	E986	E986	D927	E986	S805	S745	L567	L567	S507	S507
Y1232	P1167	K1107	I987	I987	V928	H867	M806	V746	L688	L688	I510	I510
V1233	L1168	T1108	L988	L988	W929	H868	S807	M747	C569	C569	K513	K513
T1234	S1169	A1109	K1048	E989	F930	T869	A808	H748	E570	E570	T514	T514
V1235	E1170	K1110	F1050	L990	Q931	D870	D809	C749	P571	P571	E515	E515
D1236	E1171	I1111	R1051	V991	E932	S871	G810	R750	E572	E572	L516	L516
N1237	G1172	W1112	N992	N992	N933	H872	A811	F751	T573	T573	V517	V517
L1238	A1173	S1113	L1052	R994	E934	K874	R812	S752	S574	S574	A520	A520
L1239	A1174	F1114	K1054	V935	V935	V875	M814	D754	H521	H521	H521	H521
L1240	T1175	D1115	M1055	I995	H936	V875	M814	D754	L522	L522	E528	E528
L1241	H1176	L1116	M1056	F996	V937	A876	V815	D755	R529	R529	R530	R530
L1242	H1177	L1117	R1057	Q997	L938	D877	V816	K756	H523	H523	H531	H531
L1243	G1178	L1118	L1058	S998	A939	C978	A816	K756	Q578	Q578	H532	H532
L1244	W1179	P1119	L1059	R999	Y940	H879	A817	L757	Q579	Q579	L533	L533
L1245	V1180	L1120	F1060	F1000	D941	G880	K818	L757	A580	A580	E534	E534
L1246	T1181	H1121	W1061	Q1001	H942	H881	N819	A759	K581	K581	D535	D535
L1247	D1182	E1122	H1002	H1002	I943	L882	N820	S760	L582	L582	E536	E536
L1248	L1183	L1123	F1063	K1003	R944	S883	E821	C761	A584	A584	D537	D537
LEU	C1184	G1125	D1064	K1004	R945	H884	F822	A763	K585	K585	E538	E538
GLU	F1185	H1126	G1065	T1005	L946	V885	L823	D764	Q586	Q586	E539	E539
HIS	S1186	H1126	V1066	V1006	Q947	H886	F824	G765	E587	E587	E540	E540
HIS	P1187	M1127	V1067	W1007	L948	G887	D825	T766	F707	F707	D541	D541
HIS	D1188	G1128	V1067	W1007	L949	V888	I826	L767	G647	G647	D542	D542
HIS	G1189	C1129	K1068	H1008	N950	H889	H827	K649	E648	E648	E543	E543
HIS	K1190	V1130	V1069	I1009	C951	H890	H828	L650	N590	N590	E544	E544
HIS	L1191	R1131	W1070	Q1010	R952	G890	T829	L651	M592	M592	E545	E545
HIS	L1192	C1132	M1071	Q1011	T953	D893	S829	L652	N593	N593	E546	E546
HIS	L1193	S1133	I1072	T1012	Q955	G894	G830	L653	M594	M594	E547	E547
HIS	S1194	A1134	I1073	T1013	R956	S896	H832	L654	N595	N595	E548	E548
HIS	A1195	F1135	T1074	D1014	D957	H897	L832	L655	G591	G591	E549	E549
HIS	G1196	S1136	G1075	E1015	Y958	F897	E834	L656	M596	M596	E550	E550
HIS	G1197	K1077	M1076	K1016	H958	H898	L836	L657	N597	N597	E551	E551
HIS	Y1198	D1138	E1078	T1017	L959	T899	H836	L658	G592	G592	E552	E552
HIS	I1199	S1139	K1079	L1018			T837	L659	N598	N598	E553	E553
HIS							G538	R778	D589	D589	E554	E554

• Molecule 1: Apoptotic protease-activating factor 1

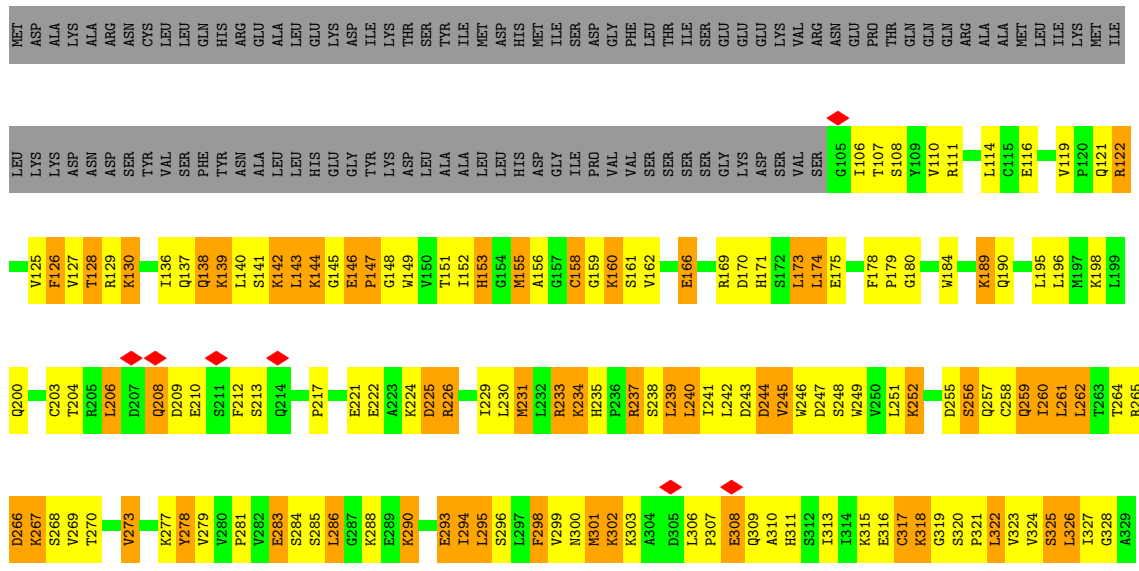


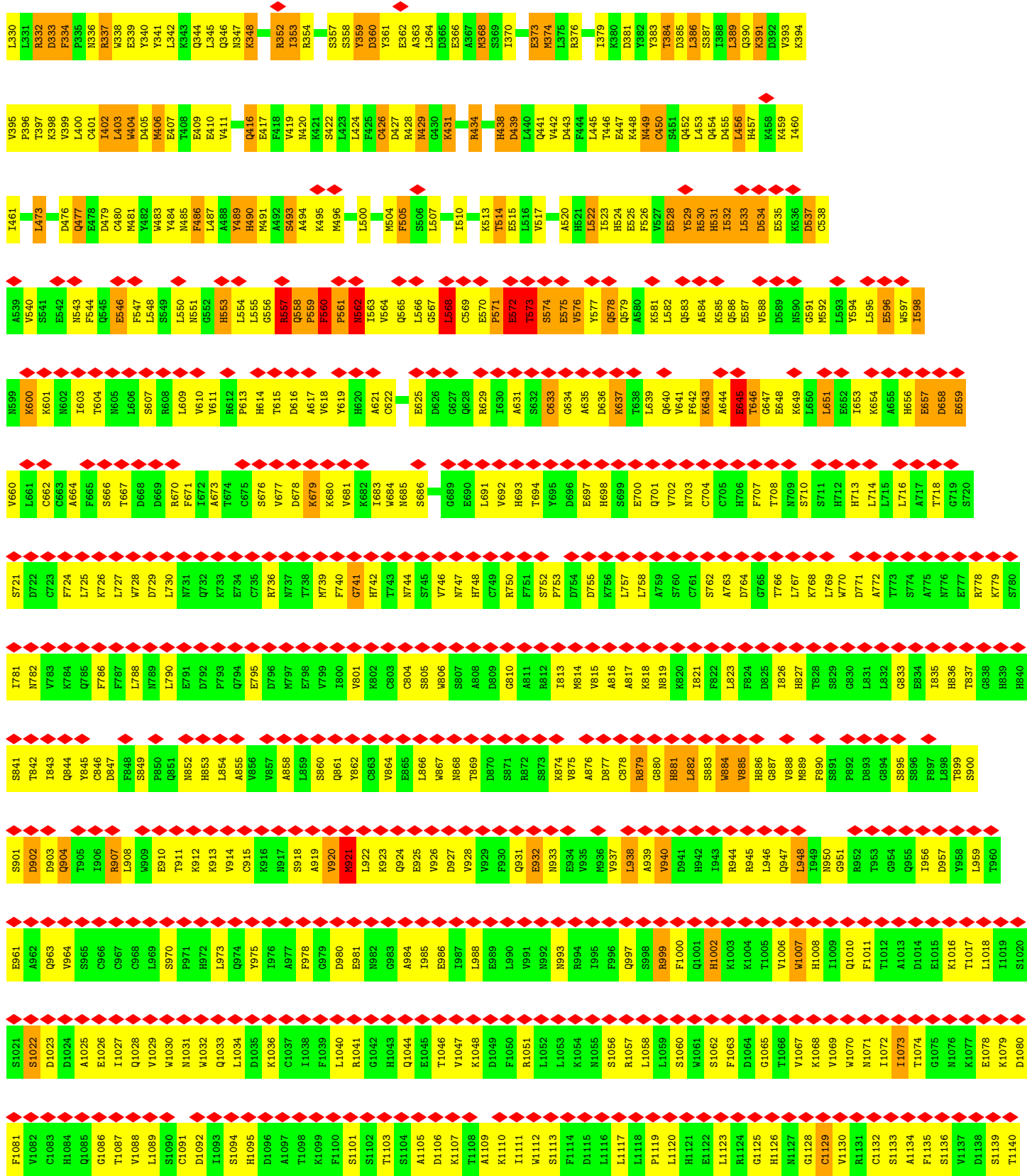
MET	ASP	ALA	LYS	ARG	ALA	ASN	CYS	LEU	LEU	GLN	HIS	ARG	GLU	ALA	LEU	GLU	LYS	ASP	ILE	LEU	MET	ASP	HIS	MET	ILE	SER	ASP	GLY	PHE	LEU	THR	THR	ILE	MET	ASP	HIS	MET	ILE	SER	ASP	VAL	ARG	ASN	GLU	PRO	THR	GLN	GLN	ARG	ALA	ALA	MET	LEU	ILE	LYS	MET	ILE		
K198	L199	Q200	C203	T204	R208	R206	L206	V273	Q208	D209	Q137	Q138	Q139	L140	L141	L142	L143	L144	G145	G146	P147	E222	A223	K224	W149	W150	T151	I152	H153	G154	M155	M156	G157	C158	K160	S161	V162	E166	R169	D170	H171	S172	L173	L174	E175	F178	P179	G180	K252	D255	S256	Q257	C258	Q259	I260	L261	L196	M197	T263
T264	R265	D266	K267	V268	S269	T270	V273	K277	D209	Q137	Q138	Q139	L140	L141	L142	L143	L144	G145	G146	P147	E222	A223	K224	W149	W150	T151	I152	H153	G154	M155	M156	G157	C158	K160	S161	V162	E166	R169	D170	H171	S172	L173	L174	E175	F178	P179	G180	K252	D255	S256	Q257	C258	Q259	I260	L261	L196	M197	T263	
G328	A329	L330	R332	D333	F334	P335	L336	R337	W338	E339	Y340	Y341	Y342	L343	L344	L345	L346	L347	K348	E337	E417	E223	K224	W149	W150	T151	I152	H153	G154	M155	M156	G157	C158	K160	S161	V162	E166	R169	D170	H171	S172	L173	L174	E175	F178	P179	G180	K252	D255	S256	Q257	C258	Q259	I260	L261	L196	M197	T263	
V393	K394	V395	P396	T397	K398	V399	L400	C401	I402	L403	W404	D405	M406	E407	T408	E409	L410	E411	Q416	F418	V419	M420	K421	S422	L423	L424	F425	C426	D427	R428	M429	G430	K431	S432	F433	R434	H438	D439	L440	Q441	V442	D443	F444	L445	T446	E447	K448	M449	C450	S451	Q452	L453	Q454	D455	I456	L457	H457		
K458	K459	I460	I461	L473	D476	Q477	E478	D479	C480	M481	Y482	W483	Y484	M485	F486	L487	A488	H489	H490	M491	A492	S493	A494	K495	M496	L500	M504	F505	S506	L507	I510	K513	T514	E515	L516	V517	A520	H521	L522	I523	H524	E525	A526	V527	E528	Y529	R530	H531	I532	Q533	L534	H535	E536						
K536	D537	C538	A539	V540	S541	E542	N543	F544	Q545	E546	F547	L548	S549	R550	L550	L551	L552	G553	L554	L555	G556	R557	Q558	P559	F560	P561	N562	I563	V564	Q565	L566	G567	L568	C569	E570	F571	T572	E573	S574	E575	V576	Y577	Q578	Q579	A580	K581	L582	Q583	A584	K585	G586	E587	V588	D589	N590	M592	L593	Y594	L595
E596	W597	I598	R599	K600	K601	N602	I603	T604	N605	L606	S607	R608	L609	V610	V611	R612	P613	H614	T615	D616	A617	V618	Y619	H620	A621	C622	E625	D626	G627	Q628	R629	L630	A631	S632	C633	G634	A635	D636	K637	T638	L639	Q640	F641	F642	K643	A644	E645	G646	G647	E648	K649	L650	L651	E652	I653	K654	A655	H656	
E657	D658	E659	V660	L661	C662	A663	A664	F665	S666	T667	D668	D669	R670	F671	L672	T674	C675	S676	V677	D678	K679	K680	V681	V682	K682	I683	W684	N685	S686	G689	E690	L691	V692	H693	T694	G695	D696	E697	H698	S699	E700	Q701	V702	N703	C704	C705	H706	F707	T708	M709	S710	L711	E712	H713	K714	A715	H716	A717	
T718	G719	S720	S721	D722	C723	F724	L725	K726	L727	W728	D729	L730	N731	Q732	K733	E734	C735	R736	N737	T738	W739	F740	G741	H742	T743	W744	S745	V746	N747	H748	C749	R750	F751	S752	P753	D754	D755	K756	L757	L758	A759	S760	C761	S762	A763	T764	D765	T766	L767	K768	L769	W770	D771	A772	T773	S774	A775	W776	E777
R778	K779	S780	I781	N782	V783	K784	O785	F786	L787	L788	N789	L790	E791	D792	P793	Q794	E795	D796	W797	E798	W799	I800	V801	K802	C803	C804	S805	H806	S807	A808	D809	G810	A811	R812	L813	H814	V815	A816	A817	K818	N819	K820	F822	L823	F824	D825	H826	H827	L828	S829	G830	L831	L832	G833	E834	L835	H836	T837	

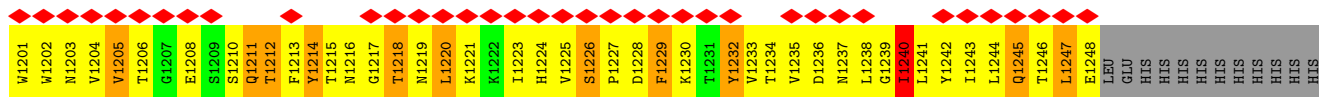


HIS
HIS

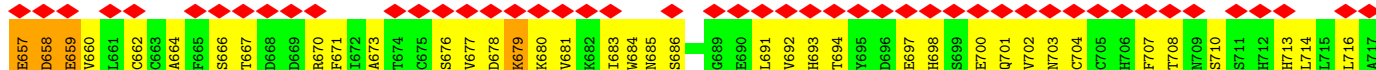
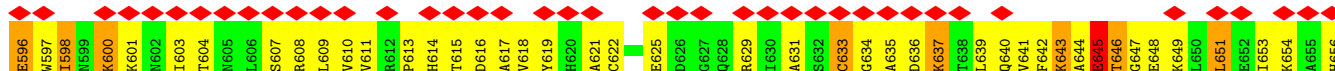
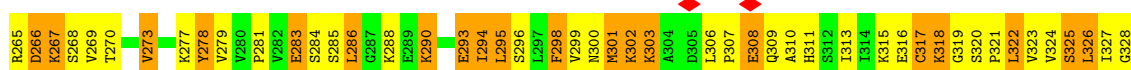
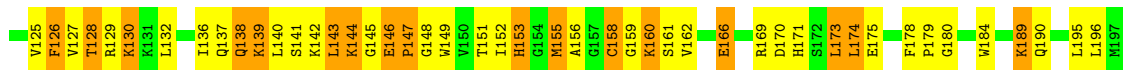
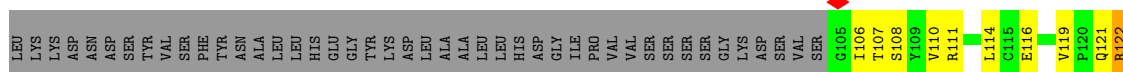
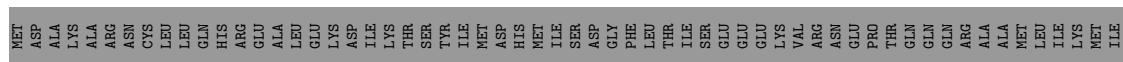
● Molecule 1: Apoptotic protease-activating factor 1

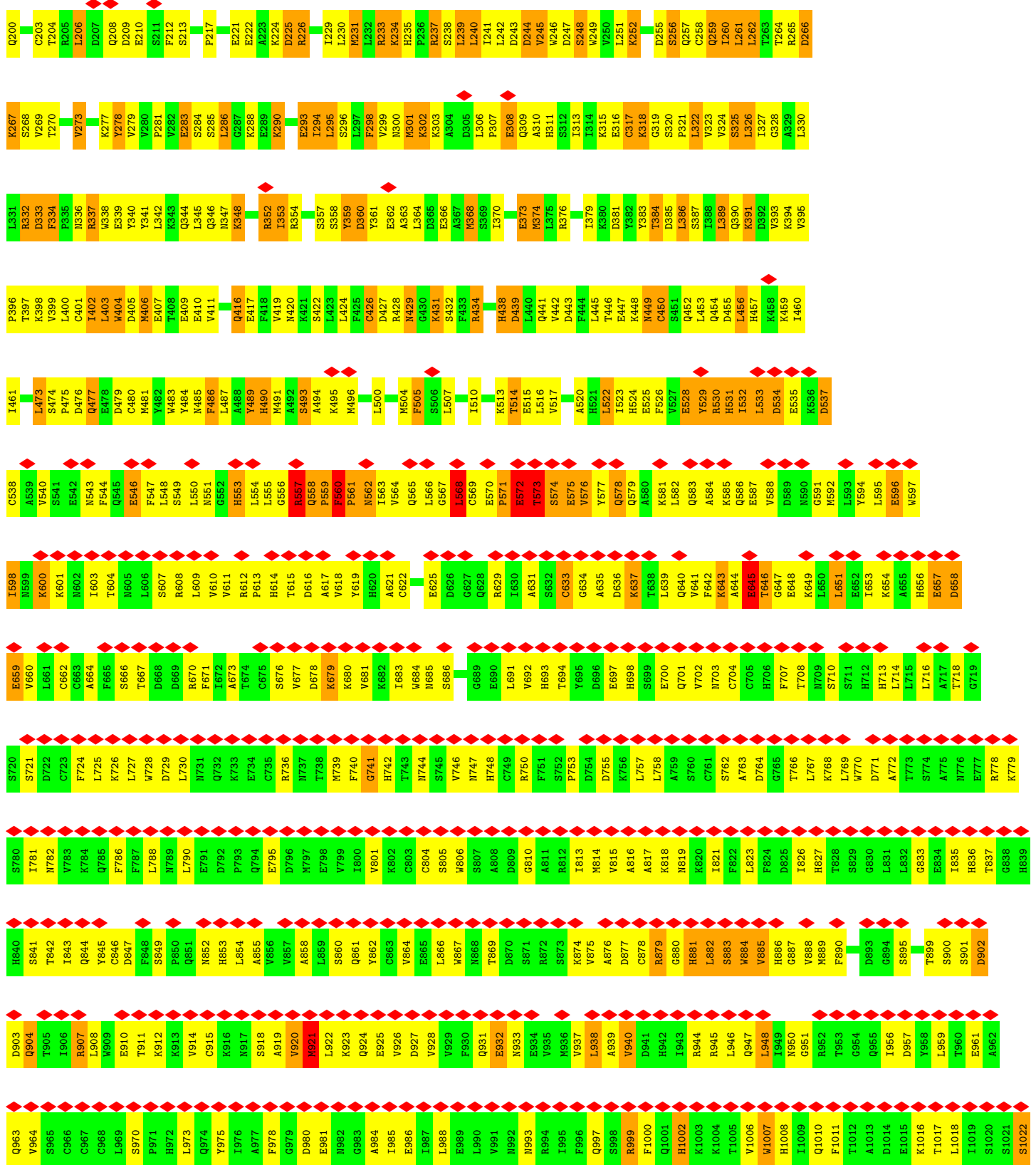






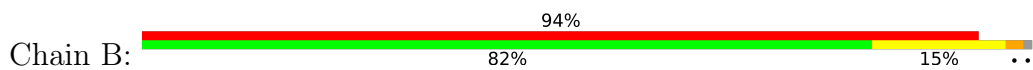
• Molecule 1: Apoptotic protease-activating factor 1







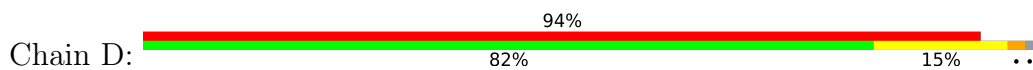
• Molecule 2: Cytochrome c



Chain B:



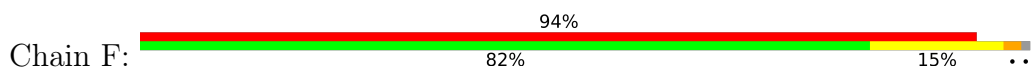
• Molecule 2: Cytochrome c



Chain D:



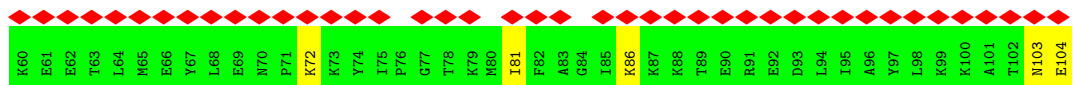
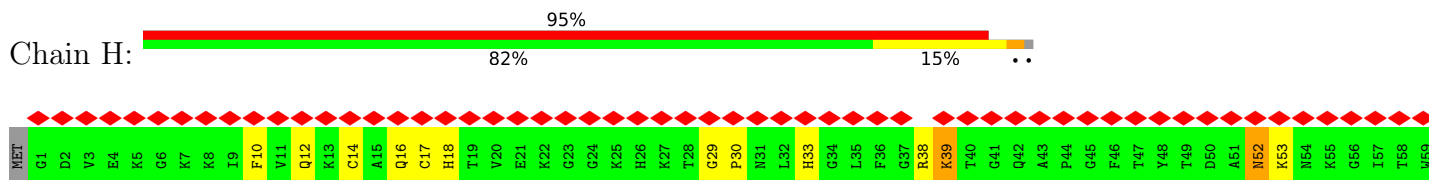
• Molecule 2: Cytochrome c



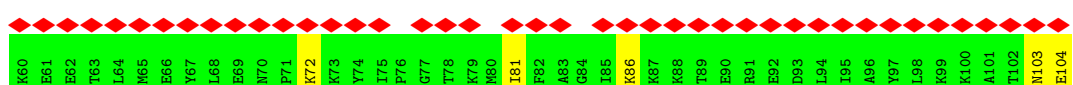
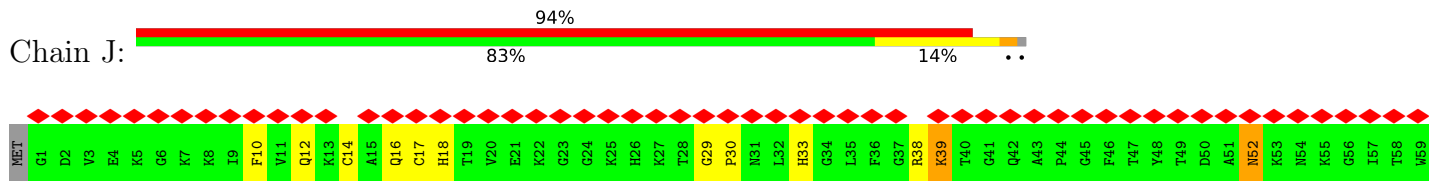
Chain F:



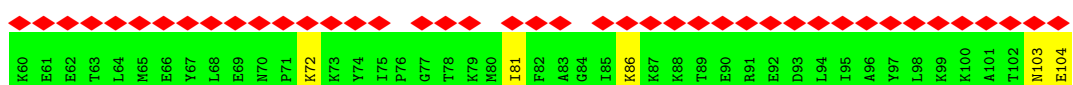
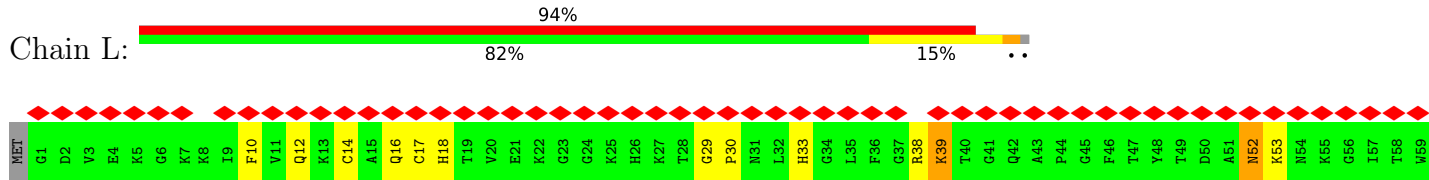
• Molecule 2: Cytochrome c



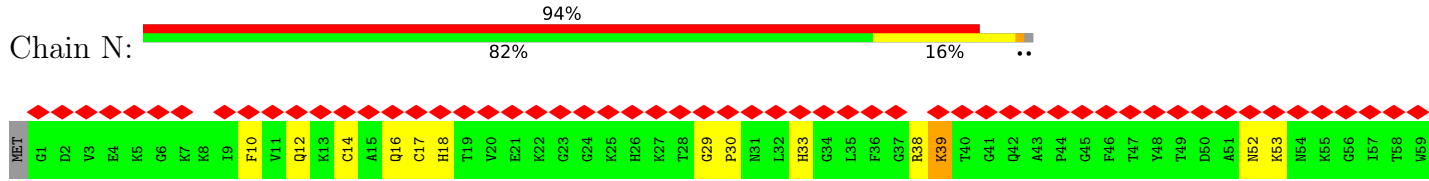
• Molecule 2: Cytochrome c



• Molecule 2: Cytochrome c



• Molecule 2: Cytochrome c



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C7	Depositor
Number of particles used	134919	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	1400	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 (4k x 4k)	Depositor
Maximum map value	0.351	Depositor
Minimum map value	-0.239	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.008	Depositor
Recommended contour level	0.04	Depositor
Map size (\AA)	422.40002, 422.40002, 422.40002	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.32, 1.32, 1.32	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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	0.30	0/9337	0.51	2/12636 (0.0%)
1	C	0.30	0/9337	0.51	2/12636 (0.0%)
1	E	0.30	0/9337	0.51	2/12636 (0.0%)
1	G	0.30	0/9337	0.51	2/12636 (0.0%)
1	I	0.30	0/9337	0.51	2/12636 (0.0%)
1	K	0.30	0/9337	0.51	2/12636 (0.0%)
1	M	0.30	0/9337	0.51	2/12636 (0.0%)
2	B	0.65	0/839	0.73	0/1118
2	D	0.65	0/839	0.73	0/1118
2	F	0.65	0/839	0.73	0/1118
2	H	0.65	0/839	0.73	0/1118
2	J	0.65	0/839	0.73	0/1118
2	L	0.65	0/839	0.73	0/1118
2	N	0.65	0/839	0.73	0/1118
All	All	0.34	0/71232	0.53	14/96278 (0.0%)

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	880	GLY	N-CA-C	5.73	127.43	113.10
1	I	880	GLY	N-CA-C	5.73	127.43	113.10
1	K	880	GLY	N-CA-C	5.73	127.43	113.10
1	M	880	GLY	N-CA-C	5.73	127.42	113.10
1	E	880	GLY	N-CA-C	5.72	127.41	113.10
1	A	880	GLY	N-CA-C	5.72	127.41	113.10
1	C	880	GLY	N-CA-C	5.72	127.41	113.10
1	M	560	PHE	C-N-CD	-5.16	109.25	120.60
1	K	560	PHE	C-N-CD	-5.15	109.27	120.60
1	E	560	PHE	C-N-CD	-5.14	109.29	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	560	PHE	C-N-CD	-5.14	109.29	120.60
1	C	560	PHE	C-N-CD	-5.14	109.30	120.60
1	I	560	PHE	C-N-CD	-5.14	109.29	120.60
1	A	560	PHE	C-N-CD	-5.13	109.31	120.60

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	9139	0	9005	1372	0
1	C	9139	0	9005	1371	0
1	E	9139	0	9005	1360	0
1	G	9139	0	9005	1382	0
1	I	9139	0	9005	1358	0
1	K	9139	0	9005	1357	0
1	M	9139	0	9005	1366	0
2	B	823	0	849	31	0
2	D	823	0	849	33	0
2	F	823	0	849	30	0
2	H	823	0	849	34	0
2	J	823	0	849	32	0
2	L	823	0	849	33	0
2	N	823	0	849	31	0
3	A	30	0	12	6	0
3	C	30	0	12	6	0
3	E	30	0	12	6	0
3	G	30	0	12	6	0
3	I	30	0	12	7	0
3	K	30	0	12	6	0
3	M	30	0	12	6	0
4	A	1	0	0	0	0
4	C	1	0	0	0	0
4	E	1	0	0	0	0
4	G	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	I	1	0	0	0	0
4	K	1	0	0	0	0
4	M	1	0	0	0	0
5	B	43	0	30	15	0
5	D	43	0	30	16	0
5	F	43	0	30	14	0
5	H	43	0	30	16	0
5	J	43	0	30	15	0
5	L	43	0	30	15	0
5	N	43	0	30	13	0
All	All	70252	0	69272	9596	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 69.

All (9596) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:544:PHE:CE1	1:E:576:VAL:HG13	1.28	1.68
1:G:544:PHE:CE1	1:G:576:VAL:HG13	1.28	1.67
1:C:544:PHE:CE1	1:C:576:VAL:HG13	1.28	1.65
1:C:862:TYR:CD1	1:C:885:VAL:HG12	1.26	1.64
1:A:544:PHE:CE1	1:A:576:VAL:HG13	1.28	1.64
1:M:544:PHE:CE1	1:M:576:VAL:HG13	1.28	1.64
1:E:862:TYR:CD1	1:E:885:VAL:HG12	1.26	1.63
1:I:544:PHE:CE1	1:I:576:VAL:HG13	1.28	1.63
1:K:862:TYR:CD1	1:K:885:VAL:HG12	1.26	1.63
1:I:862:TYR:CD1	1:I:885:VAL:HG12	1.26	1.61
1:E:862:TYR:CZ	1:E:881:HIS:HB2	1.32	1.61
1:G:862:TYR:CZ	1:G:881:HIS:HB2	1.33	1.61
1:K:544:PHE:CE1	1:K:576:VAL:HG13	1.28	1.61
1:G:862:TYR:CD1	1:G:885:VAL:HG12	1.26	1.60
1:M:862:TYR:CD1	1:M:885:VAL:HG12	1.26	1.60
1:C:862:TYR:CZ	1:C:881:HIS:HB2	1.32	1.60
1:A:862:TYR:CZ	1:A:881:HIS:HB2	1.32	1.59
1:I:862:TYR:CZ	1:I:881:HIS:HB2	1.33	1.59
1:A:862:TYR:CD1	1:A:885:VAL:HG12	1.26	1.58
1:M:862:TYR:CZ	1:M:881:HIS:HB2	1.33	1.57
1:K:862:TYR:CZ	1:K:881:HIS:HB2	1.33	1.57
1:C:595:LEU:HD11	1:C:1201:TRP:CZ2	1.50	1.47
1:G:595:LEU:HD11	1:G:1201:TRP:CZ2	1.50	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:595:LEU:HD11	1:A:1201:TRP:CZ2	1.50	1.46
1:I:595:LEU:HD11	1:I:1201:TRP:CZ2	1.50	1.46
1:K:595:LEU:HD11	1:K:1201:TRP:CZ2	1.50	1.45
1:M:595:LEU:HD11	1:M:1201:TRP:CZ2	1.50	1.45
1:E:595:LEU:HD11	1:E:1201:TRP:CZ2	1.50	1.44
1:G:322:LEU:CD1	1:G:364:LEU:HD23	1.50	1.42
1:C:322:LEU:CD1	1:C:364:LEU:HD23	1.50	1.42
2:B:14:CYS:SG	5:B:201:HEM:CAB	2.09	1.41
2:F:14:CYS:SG	5:F:201:HEM:CAB	2.09	1.41
1:K:322:LEU:CD1	1:K:364:LEU:HD23	1.50	1.41
2:N:14:CYS:SG	5:N:201:HEM:CAB	2.09	1.41
1:E:322:LEU:CD1	1:E:364:LEU:HD23	1.50	1.40
1:A:1185:PHE:HE1	1:A:1192:LEU:CD1	1.32	1.40
1:C:1185:PHE:HE1	1:C:1192:LEU:CD1	1.32	1.40
1:G:1185:PHE:HE1	1:G:1192:LEU:CD1	1.32	1.40
1:I:322:LEU:CD1	1:I:364:LEU:HD23	1.50	1.40
1:K:1185:PHE:HE1	1:K:1192:LEU:CD1	1.32	1.40
2:H:14:CYS:SG	5:H:201:HEM:CAB	2.09	1.40
2:J:14:CYS:SG	5:J:201:HEM:CAB	2.09	1.40
2:L:14:CYS:SG	5:L:201:HEM:CAB	2.09	1.40
1:M:322:LEU:CD1	1:M:364:LEU:HD23	1.50	1.40
1:M:158:CYS:SG	1:M:284:SER:HB2	1.63	1.39
1:I:1185:PHE:HE1	1:I:1192:LEU:CD1	1.32	1.39
1:C:158:CYS:SG	1:C:284:SER:HB2	1.62	1.39
1:E:158:CYS:SG	1:E:284:SER:HB2	1.63	1.39
1:E:1185:PHE:HE1	1:E:1192:LEU:CD1	1.32	1.39
1:I:158:CYS:SG	1:I:284:SER:HB2	1.63	1.39
1:M:1185:PHE:HE1	1:M:1192:LEU:CD1	1.31	1.39
1:G:158:CYS:SG	1:G:284:SER:HB2	1.63	1.38
1:A:322:LEU:CD1	1:A:364:LEU:HD23	1.50	1.37
2:D:14:CYS:SG	5:D:201:HEM:CAB	2.09	1.37
1:A:158:CYS:SG	1:A:284:SER:HB2	1.62	1.37
1:K:158:CYS:SG	1:K:284:SER:HB2	1.63	1.37
1:I:595:LEU:HD22	1:I:1244:LEU:CD1	1.57	1.35
1:K:595:LEU:HD22	1:K:1244:LEU:CD1	1.57	1.35
1:M:595:LEU:HD22	1:M:1244:LEU:CD1	1.57	1.35
1:G:595:LEU:HD22	1:G:1244:LEU:CD1	1.57	1.34
1:A:595:LEU:HD22	1:A:1244:LEU:CD1	1.57	1.34
1:E:595:LEU:HD22	1:E:1244:LEU:CD1	1.57	1.34
1:C:595:LEU:HD22	1:C:1244:LEU:CD1	1.57	1.33
1:K:927:ASP:O	1:K:938:LEU:HB2	1.29	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:927:ASP:O	1:M:938:LEU:HB2	1.29	1.32
1:I:927:ASP:O	1:I:938:LEU:HB2	1.29	1.31
1:A:927:ASP:O	1:A:938:LEU:HB2	1.29	1.30
1:C:322:LEU:HD12	1:C:364:LEU:CD2	1.63	1.29
1:I:322:LEU:HD12	1:I:364:LEU:CD2	1.63	1.29
1:A:862:TYR:HD1	1:A:885:VAL:CG1	1.45	1.29
1:K:862:TYR:HD1	1:K:885:VAL:CG1	1.45	1.29
1:E:322:LEU:HD12	1:E:364:LEU:CD2	1.63	1.28
1:M:322:LEU:HD12	1:M:364:LEU:CD2	1.63	1.28
1:M:862:TYR:HD1	1:M:885:VAL:CG1	1.45	1.28
1:K:322:LEU:HD12	1:K:364:LEU:CD2	1.63	1.28
1:K:862:TYR:CE1	1:K:881:HIS:HB2	1.69	1.28
1:A:595:LEU:CD2	1:A:1244:LEU:HD13	1.64	1.27
1:G:595:LEU:CD2	1:G:1244:LEU:HD13	1.64	1.27
1:I:595:LEU:CD2	1:I:1244:LEU:HD13	1.64	1.27
1:M:595:LEU:CD2	1:M:1244:LEU:HD13	1.64	1.27
1:K:595:LEU:CD2	1:K:1244:LEU:HD13	1.64	1.27
1:C:595:LEU:CD2	1:C:1244:LEU:HD13	1.64	1.27
1:C:862:TYR:HD1	1:C:885:VAL:CG1	1.45	1.27
1:E:595:LEU:CD2	1:E:1244:LEU:HD13	1.64	1.27
1:G:862:TYR:HD1	1:G:885:VAL:CG1	1.45	1.27
1:I:862:TYR:HD1	1:I:885:VAL:CG1	1.45	1.27
1:M:862:TYR:CE1	1:M:881:HIS:HB2	1.69	1.27
1:G:322:LEU:HD12	1:G:364:LEU:CD2	1.63	1.27
1:A:322:LEU:HD12	1:A:364:LEU:CD2	1.63	1.27
1:C:862:TYR:CE1	1:C:881:HIS:HB2	1.69	1.26
1:I:862:TYR:CE1	1:I:881:HIS:HB2	1.69	1.26
1:G:927:ASP:O	1:G:938:LEU:HB2	1.29	1.26
1:C:927:ASP:O	1:C:938:LEU:HB2	1.29	1.26
1:E:862:TYR:HD1	1:E:885:VAL:CG1	1.45	1.26
1:G:862:TYR:CE1	1:G:881:HIS:HB2	1.69	1.26
1:E:1167:PRO:HB3	1:E:1202:TRP:CD2	1.71	1.25
1:I:1167:PRO:HB3	1:I:1202:TRP:CD2	1.71	1.25
2:B:17:CYS:SG	5:B:201:HEM:CAC	2.25	1.25
2:D:17:CYS:SG	5:D:201:HEM:CAC	2.25	1.25
2:F:17:CYS:SG	5:F:201:HEM:CAC	2.25	1.25
2:J:17:CYS:SG	5:J:201:HEM:CAC	2.25	1.25
1:A:862:TYR:CE1	1:A:881:HIS:HB2	1.69	1.25
1:E:862:TYR:CE1	1:E:881:HIS:HB2	1.69	1.25
2:H:17:CYS:SG	5:H:201:HEM:CAC	2.25	1.25
1:E:1185:PHE:CD1	1:E:1192:LEU:HG	1.72	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1167:PRO:HB3	1:G:1202:TRP:CD2	1.71	1.25
2:L:17:CYS:SG	5:L:201:HEM:CAC	2.25	1.25
1:I:1185:PHE:CD1	1:I:1192:LEU:HG	1.72	1.24
1:M:1185:PHE:CD1	1:M:1192:LEU:HG	1.72	1.24
2:N:17:CYS:SG	5:N:201:HEM:CAC	2.25	1.24
1:A:473:LEU:HD21	1:A:484:TYR:CE1	1.72	1.24
1:C:473:LEU:HD21	1:C:484:TYR:CE1	1.72	1.24
2:F:14:CYS:SG	5:F:201:HEM:HAB	1.76	1.24
1:A:1167:PRO:HB3	1:A:1202:TRP:CD2	1.71	1.24
1:E:473:LEU:HD21	1:E:484:TYR:CE1	1.72	1.24
1:K:1167:PRO:HB3	1:K:1202:TRP:CD2	1.71	1.24
1:M:1167:PRO:HB3	1:M:1202:TRP:CD2	1.71	1.24
1:A:1185:PHE:CD1	1:A:1192:LEU:HG	1.72	1.23
2:B:14:CYS:SG	5:B:201:HEM:HAB	1.76	1.23
1:M:285:SER:O	1:M:319:GLY:HA3	1.37	1.23
1:M:473:LEU:HD21	1:M:484:TYR:CE1	1.72	1.23
1:A:285:SER:O	1:A:319:GLY:HA3	1.37	1.23
1:C:1167:PRO:HB3	1:C:1202:TRP:CD2	1.71	1.23
1:C:1185:PHE:CD1	1:C:1192:LEU:HG	1.72	1.23
1:C:637:LYS:HG2	1:C:659:GLU:CA	1.69	1.23
1:E:927:ASP:O	1:E:938:LEU:HB2	1.29	1.23
1:G:637:LYS:CG	1:G:659:GLU:HA	1.69	1.23
1:M:637:LYS:CG	1:M:659:GLU:HA	1.69	1.23
1:G:473:LEU:HD21	1:G:484:TYR:CE1	1.72	1.22
1:K:473:LEU:HD21	1:K:484:TYR:CE1	1.72	1.22
1:C:637:LYS:CG	1:C:659:GLU:HA	1.69	1.22
1:G:1185:PHE:CD1	1:G:1192:LEU:HG	1.72	1.22
1:I:473:LEU:HD21	1:I:484:TYR:CE1	1.72	1.22
1:K:1185:PHE:CD1	1:K:1192:LEU:HG	1.72	1.22
1:G:637:LYS:HG2	1:G:659:GLU:CA	1.69	1.22
1:K:285:SER:O	1:K:319:GLY:HA3	1.37	1.22
1:G:285:SER:O	1:G:319:GLY:HA3	1.37	1.22
1:K:637:LYS:CG	1:K:659:GLU:HA	1.69	1.22
2:N:14:CYS:SG	5:N:201:HEM:HAB	1.76	1.22
1:E:637:LYS:HG2	1:E:659:GLU:CA	1.69	1.21
1:I:637:LYS:CG	1:I:659:GLU:HA	1.69	1.21
1:E:1185:PHE:CE1	1:E:1192:LEU:CD1	2.24	1.21
1:K:637:LYS:HG2	1:K:659:GLU:CA	1.69	1.21
1:M:1185:PHE:CE1	1:M:1192:LEU:CD1	2.24	1.21
1:A:1185:PHE:CE1	1:A:1192:LEU:CD1	2.24	1.21
1:C:285:SER:O	1:C:319:GLY:HA3	1.37	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:637:LYS:HG2	1:M:659:GLU:CA	1.69	1.21
1:A:637:LYS:HG2	1:A:659:GLU:CA	1.69	1.21
1:I:457:HIS:CD2	1:I:493:SER:CB	2.24	1.21
1:A:637:LYS:CG	1:A:659:GLU:HA	1.69	1.20
1:G:544:PHE:CD1	1:G:576:VAL:HG13	1.75	1.20
1:K:457:HIS:CD2	1:K:493:SER:CB	2.24	1.20
1:E:544:PHE:CE1	1:E:576:VAL:CG1	2.24	1.20
1:E:544:PHE:CD1	1:E:576:VAL:HG13	1.75	1.20
1:E:637:LYS:CG	1:E:659:GLU:HA	1.69	1.20
1:A:544:PHE:CD1	1:A:576:VAL:HG13	1.75	1.20
1:M:544:PHE:CE1	1:M:576:VAL:CG1	2.24	1.20
1:C:457:HIS:CD2	1:C:493:SER:CB	2.24	1.20
1:C:544:PHE:CE1	1:C:576:VAL:CG1	2.24	1.20
1:G:457:HIS:CD2	1:G:493:SER:CB	2.24	1.20
1:G:544:PHE:CE1	1:G:576:VAL:CG1	2.24	1.20
1:I:1185:PHE:CE1	1:I:1192:LEU:CD1	2.24	1.20
1:A:544:PHE:CE1	1:A:576:VAL:CG1	2.25	1.20
1:C:1185:PHE:CE1	1:C:1192:LEU:CD1	2.24	1.20
1:I:544:PHE:CD1	1:I:576:VAL:HG13	1.75	1.20
1:K:544:PHE:CE1	1:K:576:VAL:CG1	2.24	1.20
2:D:14:CYS:SG	5:D:201:HEM:HAB	1.76	1.19
1:G:1185:PHE:CE1	1:G:1192:LEU:CD1	2.24	1.19
1:I:637:LYS:HG2	1:I:659:GLU:CA	1.69	1.19
1:M:457:HIS:CD2	1:M:493:SER:CB	2.24	1.19
1:C:544:PHE:CD1	1:C:576:VAL:HG13	1.75	1.19
1:I:544:PHE:CE1	1:I:576:VAL:CG1	2.24	1.19
1:K:544:PHE:CD1	1:K:576:VAL:HG13	1.75	1.19
1:E:457:HIS:CD2	1:E:493:SER:CB	2.24	1.19
1:M:595:LEU:HD13	1:M:1244:LEU:HD22	1.22	1.19
1:I:285:SER:O	1:I:319:GLY:HA3	1.37	1.19
1:I:595:LEU:HD13	1:I:1244:LEU:HD22	1.22	1.19
1:I:862:TYR:CD1	1:I:885:VAL:CG1	2.23	1.19
1:I:862:TYR:CZ	1:I:881:HIS:CB	2.26	1.19
1:K:1185:PHE:CE1	1:K:1192:LEU:CD1	2.24	1.19
2:L:14:CYS:SG	5:L:201:HEM:HAB	1.76	1.19
1:M:544:PHE:CD1	1:M:576:VAL:HG13	1.75	1.19
1:A:862:TYR:CD1	1:A:885:VAL:CG1	2.23	1.18
1:C:453:LEU:HA	1:C:456:LEU:HD12	1.19	1.18
1:G:862:TYR:CZ	1:G:881:HIS:CB	2.26	1.18
1:K:862:TYR:CD1	1:K:885:VAL:CG1	2.23	1.18
1:K:862:TYR:CZ	1:K:881:HIS:CB	2.26	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:457:HIS:CD2	1:A:493:SER:CB	2.24	1.18
1:A:520:ALA:HB1	1:A:648:GLU:CB	1.74	1.18
1:E:285:SER:O	1:E:319:GLY:HA3	1.37	1.18
2:H:18:HIS:CE1	2:H:29:GLY:HA3	1.79	1.18
2:F:18:HIS:CE1	2:F:29:GLY:HA3	1.79	1.18
1:G:584:ALA:O	1:G:588:VAL:HG23	1.41	1.18
1:C:520:ALA:HB1	1:C:648:GLU:CB	1.74	1.18
1:E:584:ALA:O	1:E:588:VAL:HG23	1.41	1.18
1:A:230:LEU:HD22	1:A:234:LYS:HG3	1.24	1.17
1:A:862:TYR:CZ	1:A:881:HIS:CB	2.26	1.17
1:I:1149:GLY:HA2	1:I:1180:VAL:CG2	1.74	1.17
1:K:1149:GLY:HA2	1:K:1180:VAL:CG2	1.74	1.17
1:M:520:ALA:HB1	1:M:648:GLU:CB	1.74	1.17
1:C:862:TYR:CZ	1:C:881:HIS:CB	2.26	1.17
1:E:453:LEU:HA	1:E:456:LEU:HD12	1.19	1.17
1:M:862:TYR:CZ	1:M:881:HIS:CB	2.26	1.17
1:M:881:HIS:ND1	1:M:901:SER:HB3	1.59	1.17
1:M:1149:GLY:HA2	1:M:1180:VAL:CG2	1.74	1.17
2:B:18:HIS:CE1	2:B:29:GLY:HA3	1.79	1.17
1:E:862:TYR:CZ	1:E:881:HIS:CB	2.26	1.17
1:G:1149:GLY:HA2	1:G:1180:VAL:CG2	1.74	1.17
1:A:881:HIS:ND1	1:A:901:SER:HB3	1.60	1.17
1:I:584:ALA:O	1:I:588:VAL:HG23	1.41	1.17
1:I:881:HIS:ND1	1:I:901:SER:HB3	1.60	1.17
1:M:862:TYR:CD1	1:M:885:VAL:CG1	2.23	1.17
1:E:520:ALA:HB1	1:E:648:GLU:CB	1.74	1.17
2:D:18:HIS:CE1	2:D:29:GLY:HA3	1.79	1.16
1:G:595:LEU:HD13	1:G:1244:LEU:HD22	1.22	1.16
2:J:14:CYS:SG	5:J:201:HEM:HAB	1.76	1.16
1:A:1149:GLY:HA2	1:A:1180:VAL:CG2	1.74	1.16
1:C:1185:PHE:HE1	1:C:1192:LEU:HD11	1.10	1.16
1:E:1149:GLY:HA2	1:E:1180:VAL:CG2	1.74	1.16
1:K:394:LYS:HB3	1:K:434:ARG:HB2	1.18	1.16
1:K:520:ALA:HB1	1:K:648:GLU:CB	1.74	1.16
2:L:18:HIS:CE1	2:L:29:GLY:HA3	1.79	1.16
1:A:453:LEU:HA	1:A:456:LEU:HD12	1.19	1.16
1:A:1185:PHE:HE1	1:A:1192:LEU:HD11	1.10	1.16
1:C:584:ALA:O	1:C:588:VAL:HG23	1.41	1.16
1:K:584:ALA:O	1:K:588:VAL:HG23	1.41	1.16
1:C:1149:GLY:HA2	1:C:1180:VAL:CG2	1.74	1.16
1:G:881:HIS:ND1	1:G:901:SER:HB3	1.60	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:453:LEU:HA	1:G:456:LEU:HD12	1.19	1.16
1:G:520:ALA:HB1	1:G:648:GLU:CB	1.74	1.16
1:K:595:LEU:HD13	1:K:1244:LEU:HD22	1.22	1.16
2:N:18:HIS:CE1	2:N:29:GLY:HA3	1.78	1.16
1:C:1185:PHE:CE1	1:C:1192:LEU:HD11	1.81	1.15
1:E:881:HIS:ND1	1:E:901:SER:HB3	1.60	1.15
2:H:14:CYS:SG	5:H:201:HEM:HAB	1.76	1.15
1:I:520:ALA:HB1	1:I:648:GLU:CB	1.74	1.15
1:M:394:LYS:HB3	1:M:434:ARG:HB2	1.18	1.15
2:J:18:HIS:CE1	2:J:29:GLY:HA3	1.79	1.15
1:A:595:LEU:HD13	1:A:1244:LEU:HD22	1.22	1.15
1:K:881:HIS:ND1	1:K:901:SER:HB3	1.60	1.15
1:A:1185:PHE:CE1	1:A:1192:LEU:HG	1.81	1.15
1:C:230:LEU:HD22	1:C:234:LYS:HG3	1.24	1.15
1:C:881:HIS:ND1	1:C:901:SER:HB3	1.60	1.15
1:M:584:ALA:O	1:M:588:VAL:HG23	1.41	1.15
1:G:1185:PHE:CE1	1:G:1192:LEU:HG	1.81	1.15
1:A:584:ALA:O	1:A:588:VAL:HG23	1.41	1.14
1:I:394:LYS:HB3	1:I:434:ARG:HB2	1.18	1.14
1:I:1185:PHE:CE1	1:I:1192:LEU:HG	1.82	1.14
1:M:1185:PHE:CE1	1:M:1192:LEU:HG	1.82	1.14
1:A:1218:THR:O	1:A:1236:ASP:HB2	1.46	1.14
1:E:882:LEU:HD22	1:E:882:LEU:H	0.99	1.14
1:K:1087:THR:HG23	2:L:39:LYS:HD3	1.26	1.14
1:M:1218:THR:O	1:M:1236:ASP:HB2	1.46	1.14
1:C:1185:PHE:CE1	1:C:1192:LEU:HG	1.81	1.14
1:C:1218:THR:O	1:C:1236:ASP:HB2	1.46	1.14
1:E:1185:PHE:CE1	1:E:1192:LEU:HG	1.81	1.14
1:I:230:LEU:HD22	1:I:234:LYS:HG3	1.24	1.14
1:C:639:LEU:CD2	1:C:653:ILE:HD12	1.79	1.13
1:E:639:LEU:CD2	1:E:653:ILE:HD12	1.79	1.13
1:K:1218:THR:O	1:K:1236:ASP:HB2	1.46	1.13
1:A:639:LEU:CD2	1:A:653:ILE:HD12	1.78	1.13
1:E:1218:THR:O	1:E:1236:ASP:HB2	1.46	1.13
1:K:1185:PHE:CE1	1:K:1192:LEU:HD11	1.81	1.13
1:K:1185:PHE:CE1	1:K:1192:LEU:HG	1.82	1.13
1:M:230:LEU:HD22	1:M:234:LYS:HG3	1.24	1.13
1:E:122:ARG:NH2	1:E:126:PHE:HZ	1.47	1.13
1:G:639:LEU:CD2	1:G:653:ILE:HD12	1.79	1.13
1:I:457:HIS:CD2	1:I:493:SER:HB2	1.83	1.13
1:I:882:LEU:HB3	1:I:1237:ASN:HD21	1.10	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:473:LEU:HD11	1:K:480:CYS:HB2	1.13	1.13
1:K:595:LEU:CD1	1:K:1201:TRP:CZ2	2.32	1.13
1:M:639:LEU:CD2	1:M:653:ILE:HD12	1.79	1.13
1:M:1087:THR:HG23	2:N:39:LYS:HD3	1.26	1.13
1:A:122:ARG:NH2	1:A:126:PHE:HZ	1.47	1.13
1:E:614:HIS:HE1	1:E:640:GLN:HG2	1.14	1.13
1:G:457:HIS:CD2	1:G:493:SER:HB2	1.83	1.13
1:G:1185:PHE:CE1	1:G:1192:LEU:HD11	1.81	1.13
1:I:453:LEU:HA	1:I:456:LEU:HD12	1.19	1.13
1:I:1218:THR:O	1:I:1236:ASP:HB2	1.46	1.13
1:C:595:LEU:CD1	1:C:1201:TRP:CZ2	2.32	1.13
1:E:473:LEU:HD11	1:E:480:CYS:HB2	1.13	1.13
1:E:595:LEU:HD13	1:E:1244:LEU:HD22	1.22	1.12
1:G:230:LEU:HD22	1:G:234:LYS:HG3	1.24	1.13
1:G:1218:THR:O	1:G:1236:ASP:HB2	1.46	1.12
1:I:614:HIS:HE1	1:I:640:GLN:HG2	1.14	1.12
1:I:1185:PHE:CE1	1:I:1192:LEU:HD11	1.81	1.12
1:K:122:ARG:NH2	1:K:126:PHE:HZ	1.47	1.13
1:K:457:HIS:CD2	1:K:493:SER:HB2	1.83	1.13
1:A:595:LEU:CD1	1:A:1201:TRP:CZ2	2.32	1.12
1:C:457:HIS:CD2	1:C:493:SER:HB2	1.83	1.12
1:E:457:HIS:CD2	1:E:493:SER:HB2	1.83	1.12
1:C:882:LEU:HD22	1:C:882:LEU:H	0.99	1.12
1:I:122:ARG:NH2	1:I:126:PHE:HZ	1.47	1.12
1:I:595:LEU:CD1	1:I:1201:TRP:CZ2	2.32	1.12
1:I:639:LEU:CD2	1:I:653:ILE:HD12	1.78	1.12
1:M:453:LEU:HA	1:M:456:LEU:HD12	1.19	1.12
1:C:595:LEU:HD13	1:C:1244:LEU:HD22	1.22	1.12
1:E:230:LEU:HD22	1:E:234:LYS:HG3	1.24	1.12
1:M:595:LEU:CD1	1:M:1201:TRP:CZ2	2.32	1.12
1:E:1185:PHE:CE1	1:E:1192:LEU:HD11	1.81	1.12
1:I:1087:THR:HG23	2:J:39:LYS:HD3	1.26	1.12
1:K:639:LEU:CD2	1:K:653:ILE:HD12	1.79	1.12
1:K:1220:LEU:H	1:K:1220:LEU:HD12	1.06	1.12
1:M:1185:PHE:CE1	1:M:1192:LEU:HD11	1.81	1.12
1:M:457:HIS:CD2	1:M:493:SER:HB2	1.83	1.11
1:A:394:LYS:HB3	1:A:434:ARG:HB2	1.18	1.11
1:E:595:LEU:CD1	1:E:1201:TRP:CZ2	2.32	1.11
1:A:457:HIS:CD2	1:A:493:SER:HB2	1.83	1.11
1:M:882:LEU:H	1:M:882:LEU:HD22	0.98	1.11
1:M:1185:PHE:CE1	1:M:1192:LEU:CG	2.34	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:431:LYS:NZ	1:E:336:ASN:HB3	1.66	1.11
1:E:179:PRO:HD2	1:E:237:ARG:HH11	1.11	1.11
1:E:1087:THR:HG23	2:F:39:LYS:HD3	1.26	1.11
1:I:431:LYS:NZ	1:K:336:ASN:HB3	1.66	1.11
1:K:453:LEU:HA	1:K:456:LEU:HD12	1.19	1.11
1:M:1220:LEU:HD12	1:M:1220:LEU:H	1.06	1.11
1:A:882:LEU:HB3	1:A:1237:ASN:HD21	1.10	1.11
1:A:882:LEU:H	1:A:882:LEU:HD22	0.99	1.11
1:A:1185:PHE:CE1	1:A:1192:LEU:CG	2.34	1.11
1:E:431:LYS:NZ	1:G:336:ASN:HB3	1.66	1.11
1:E:862:TYR:CD1	1:E:885:VAL:CG1	2.23	1.11
1:G:394:LYS:HB3	1:G:434:ARG:HB2	1.18	1.11
1:G:595:LEU:CD1	1:G:1201:TRP:CZ2	2.32	1.11
1:I:473:LEU:HD11	1:I:480:CYS:HB2	1.13	1.11
1:A:614:HIS:HE1	1:A:640:GLN:HG2	1.14	1.10
1:C:122:ARG:NH2	1:C:126:PHE:HZ	1.47	1.10
1:C:179:PRO:HD2	1:C:237:ARG:HH11	1.12	1.10
1:G:122:ARG:NH2	1:G:126:PHE:HZ	1.47	1.10
1:G:1220:LEU:H	1:G:1220:LEU:HD12	1.06	1.10
1:M:122:ARG:NH2	1:M:126:PHE:HZ	1.47	1.10
1:A:879:ARG:HB3	1:A:921:MET:CE	1.81	1.10
1:K:879:ARG:HB3	1:K:921:MET:CE	1.81	1.10
1:A:381:ASP:O	1:A:384:THR:HG23	1.52	1.10
1:A:431:LYS:NZ	1:C:336:ASN:HB3	1.66	1.10
1:A:999:ARG:HD3	1:A:1030:TRP:CD1	1.87	1.10
1:C:381:ASP:O	1:C:384:THR:HG23	1.52	1.10
1:C:1087:THR:HG23	2:D:39:LYS:HD3	1.26	1.10
1:C:1185:PHE:CE1	1:C:1192:LEU:CG	2.34	1.10
1:E:1220:LEU:HD12	1:E:1220:LEU:H	1.06	1.10
1:G:473:LEU:HD11	1:G:480:CYS:HB2	1.13	1.10
1:G:862:TYR:CD1	1:G:885:VAL:CG1	2.23	1.10
1:K:614:HIS:HE1	1:K:640:GLN:HG2	1.14	1.10
1:M:614:HIS:HE1	1:M:640:GLN:HG2	1.14	1.10
1:A:473:LEU:CD2	1:A:484:TYR:CE1	2.35	1.10
1:I:473:LEU:CD2	1:I:484:TYR:CE1	2.35	1.10
1:K:1185:PHE:CE1	1:K:1192:LEU:CG	2.34	1.10
1:M:473:LEU:HD11	1:M:480:CYS:HB2	1.13	1.10
1:A:1185:PHE:CE1	1:A:1192:LEU:HD11	1.81	1.10
1:C:882:LEU:H	1:C:882:LEU:CD2	1.65	1.10
1:E:1185:PHE:CE1	1:E:1192:LEU:CG	2.34	1.10
1:G:879:ARG:HB3	1:G:921:MET:CE	1.81	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:879:ARG:HB3	1:I:921:MET:CE	1.81	1.10
1:I:999:ARG:HD3	1:I:1030:TRP:CD1	1.87	1.10
1:I:1220:LEU:H	1:I:1220:LEU:HD12	1.06	1.10
1:K:431:LYS:NZ	1:M:336:ASN:HB3	1.66	1.10
1:C:394:LYS:HB3	1:C:434:ARG:HB2	1.18	1.09
1:G:473:LEU:CD2	1:G:484:TYR:CE1	2.35	1.09
1:M:473:LEU:CD2	1:M:484:TYR:CE1	2.35	1.09
1:M:879:ARG:HB3	1:M:921:MET:CE	1.81	1.09
1:A:1087:THR:HG23	2:B:39:LYS:HD3	1.26	1.09
1:E:381:ASP:O	1:E:384:THR:HG23	1.52	1.09
1:E:999:ARG:HD3	1:E:1030:TRP:CD1	1.87	1.09
1:G:381:ASP:O	1:G:384:THR:HG23	1.52	1.09
1:G:1185:PHE:CE1	1:G:1192:LEU:CG	2.34	1.09
1:I:882:LEU:HD22	1:I:882:LEU:H	0.99	1.09
1:C:879:ARG:HB3	1:C:921:MET:CE	1.81	1.09
1:G:923:LYS:HB2	1:G:940:VAL:HG23	1.10	1.09
1:I:1185:PHE:CE1	1:I:1192:LEU:CG	2.34	1.09
1:K:999:ARG:HD3	1:K:1030:TRP:CD1	1.87	1.09
1:M:882:LEU:H	1:M:882:LEU:CD2	1.64	1.09
1:M:999:ARG:HD3	1:M:1030:TRP:CD1	1.87	1.09
1:G:882:LEU:H	1:G:882:LEU:CD2	1.64	1.09
1:I:1087:THR:CG2	2:J:39:LYS:HD3	1.83	1.09
1:A:1087:THR:CG2	2:B:39:LYS:HD3	1.83	1.09
1:C:473:LEU:CD2	1:C:484:TYR:CE1	2.35	1.09
1:E:394:LYS:HB3	1:E:434:ARG:HB2	1.18	1.09
1:E:923:LYS:HB2	1:E:940:VAL:HG23	1.10	1.09
1:G:179:PRO:HD2	1:G:237:ARG:HH11	1.12	1.09
1:G:431:LYS:NZ	1:I:336:ASN:HB3	1.66	1.09
1:K:230:LEU:HD22	1:K:234:LYS:HG3	1.24	1.09
1:M:381:ASP:O	1:M:384:THR:HG23	1.52	1.09
1:A:1220:LEU:H	1:A:1220:LEU:HD12	1.06	1.08
1:G:1087:THR:CG2	2:H:39:LYS:HD3	1.83	1.08
1:I:381:ASP:O	1:I:384:THR:HG23	1.52	1.08
1:I:882:LEU:H	1:I:882:LEU:CD2	1.64	1.08
1:K:1087:THR:CG2	2:L:39:LYS:HD3	1.83	1.08
1:M:1087:THR:CG2	2:N:39:LYS:HD3	1.83	1.08
1:C:473:LEU:HD11	1:C:480:CYS:HB2	1.13	1.08
1:C:999:ARG:HD3	1:C:1030:TRP:CD1	1.87	1.08
1:G:882:LEU:HB3	1:G:1237:ASN:HD21	1.10	1.08
1:G:1087:THR:HG23	2:H:39:LYS:HD3	1.26	1.08
1:A:336:ASN:HB3	1:M:431:LYS:NZ	1.66	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:LEU:HD11	1:A:480:CYS:HB2	1.13	1.08
1:E:473:LEU:CD2	1:E:484:TYR:CE1	2.35	1.08
1:E:882:LEU:HB3	1:E:1237:ASN:HD21	1.10	1.08
1:K:457:HIS:CG	1:K:493:SER:HB2	1.88	1.08
1:K:473:LEU:CD2	1:K:484:TYR:CE1	2.35	1.08
1:A:179:PRO:HD2	1:A:237:ARG:HH11	1.12	1.08
1:C:862:TYR:CD1	1:C:885:VAL:CG1	2.23	1.08
1:E:882:LEU:H	1:E:882:LEU:CD2	1.64	1.08
1:G:999:ARG:HD3	1:G:1030:TRP:CD1	1.87	1.08
1:I:923:LYS:HB2	1:I:940:VAL:HG23	1.10	1.08
1:M:457:HIS:CG	1:M:493:SER:HB2	1.88	1.08
1:C:298:PHE:CE2	1:C:325:SER:HA	1.89	1.08
1:C:1087:THR:CG2	2:D:39:LYS:HD3	1.83	1.08
1:C:1220:LEU:H	1:C:1220:LEU:HD12	1.06	1.08
1:E:879:ARG:HB3	1:E:921:MET:CE	1.81	1.08
1:G:298:PHE:CE2	1:G:325:SER:HA	1.89	1.08
1:K:381:ASP:O	1:K:384:THR:HG23	1.52	1.08
1:K:529:TYR:O	1:K:532:ILE:HG23	1.54	1.08
1:M:882:LEU:HB3	1:M:1237:ASN:HD21	1.10	1.08
1:A:882:LEU:H	1:A:882:LEU:CD2	1.65	1.07
1:C:457:HIS:CG	1:C:493:SER:HB2	1.88	1.07
1:I:171:HIS:CD2	1:I:175:GLU:HB2	1.89	1.07
1:I:457:HIS:CG	1:I:493:SER:HB2	1.88	1.07
1:K:923:LYS:HB2	1:K:940:VAL:HG23	1.10	1.07
1:M:923:LYS:HB2	1:M:940:VAL:HG23	1.10	1.07
1:C:923:LYS:HB2	1:C:940:VAL:HG23	1.10	1.07
1:E:212:PHE:HB3	1:E:226:ARG:HH12	0.94	1.07
1:E:457:HIS:CG	1:E:493:SER:HB2	1.88	1.07
1:G:171:HIS:CD2	1:G:175:GLU:HB2	1.89	1.07
1:G:1167:PRO:HB3	1:G:1202:TRP:CE3	1.89	1.07
1:I:529:TYR:O	1:I:532:ILE:HG23	1.54	1.07
1:K:298:PHE:CE2	1:K:325:SER:HA	1.89	1.07
1:A:923:LYS:HB2	1:A:940:VAL:HG23	1.10	1.07
1:E:171:HIS:CD2	1:E:175:GLU:HB2	1.89	1.07
1:I:1167:PRO:HB3	1:I:1202:TRP:CE3	1.89	1.07
1:A:457:HIS:CG	1:A:493:SER:HB2	1.88	1.07
1:A:520:ALA:HB1	1:A:648:GLU:HB2	1.08	1.07
1:A:1167:PRO:HB3	1:A:1202:TRP:CE3	1.89	1.07
1:C:171:HIS:CD2	1:C:175:GLU:HB2	1.89	1.07
1:C:212:PHE:HB3	1:C:226:ARG:HH12	0.94	1.07
1:C:1167:PRO:HB3	1:C:1202:TRP:CE3	1.89	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1087:THR:CG2	2:F:39:LYS:HD3	1.83	1.07
1:K:171:HIS:CD2	1:K:175:GLU:HB2	1.89	1.07
1:M:179:PRO:CD	1:M:237:ARG:HH11	1.68	1.07
1:C:540:VAL:HG13	1:C:575:GLU:HB3	1.37	1.07
1:C:614:HIS:HE1	1:C:640:GLN:HG2	1.14	1.07
1:G:540:VAL:HG13	1:G:575:GLU:HB3	1.37	1.07
1:G:614:HIS:HE1	1:G:640:GLN:HG2	1.14	1.07
1:I:298:PHE:HE2	1:I:325:SER:HA	1.16	1.07
1:I:540:VAL:HG13	1:I:575:GLU:HB3	1.37	1.07
1:M:171:HIS:CD2	1:M:175:GLU:HB2	1.89	1.07
1:M:298:PHE:CE2	1:M:325:SER:HA	1.89	1.07
1:M:529:TYR:O	1:M:532:ILE:HG23	1.54	1.07
1:A:158:CYS:SG	1:A:284:SER:CB	2.43	1.06
1:A:473:LEU:HD21	1:A:484:TYR:CZ	1.91	1.06
1:C:473:LEU:HD21	1:C:484:TYR:CZ	1.91	1.06
1:E:298:PHE:CE2	1:E:325:SER:HA	1.89	1.06
1:E:473:LEU:HD21	1:E:484:TYR:CZ	1.91	1.06
1:G:457:HIS:CG	1:G:493:SER:HB2	1.88	1.06
1:G:882:LEU:H	1:G:882:LEU:HD22	0.99	1.06
1:I:179:PRO:HD2	1:I:237:ARG:HH11	1.12	1.06
1:K:882:LEU:H	1:K:882:LEU:CD2	1.64	1.06
1:K:1167:PRO:HB3	1:K:1202:TRP:CE3	1.89	1.06
1:M:1167:PRO:HB3	1:M:1202:TRP:CE3	1.89	1.06
1:E:540:VAL:HG13	1:E:575:GLU:HB3	1.37	1.06
1:I:453:LEU:HD11	1:I:454:GLN:HE21	1.14	1.06
1:M:298:PHE:HE2	1:M:325:SER:HA	1.16	1.06
1:C:158:CYS:SG	1:C:284:SER:CB	2.43	1.06
1:C:520:ALA:HB1	1:C:648:GLU:HB2	1.08	1.06
1:E:1167:PRO:HB3	1:E:1202:TRP:CE3	1.89	1.06
1:I:179:PRO:CD	1:I:237:ARG:HH11	1.68	1.06
1:I:298:PHE:CE2	1:I:325:SER:HA	1.89	1.06
1:M:520:ALA:HB1	1:M:648:GLU:HB2	1.09	1.06
1:A:171:HIS:CD2	1:A:175:GLU:HB2	1.89	1.06
1:C:882:LEU:HB3	1:C:1237:ASN:HD21	1.10	1.06
1:E:453:LEU:HD11	1:E:454:GLN:HE21	1.14	1.06
1:G:453:LEU:HD11	1:G:454:GLN:HE21	1.14	1.06
1:G:473:LEU:HD21	1:G:484:TYR:CZ	1.90	1.06
1:G:520:ALA:HB1	1:G:648:GLU:HB2	1.09	1.06
1:G:529:TYR:O	1:G:532:ILE:HG23	1.54	1.06
1:K:453:LEU:HD11	1:K:454:GLN:HE21	1.14	1.06
1:K:540:VAL:HG13	1:K:575:GLU:HB3	1.37	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:453:LEU:HD11	1:M:454:GLN:HE21	1.14	1.06
1:M:473:LEU:HD21	1:M:484:TYR:CZ	1.90	1.06
1:A:453:LEU:HD11	1:A:454:GLN:HE21	1.14	1.06
1:A:1200:LYS:HD3	1:A:1202:TRP:CE2	1.91	1.06
1:G:212:PHE:HB3	1:G:226:ARG:HH12	0.94	1.06
1:I:520:ALA:HB1	1:I:648:GLU:HB2	1.09	1.06
1:K:882:LEU:HB3	1:K:1237:ASN:HD21	1.10	1.06
1:M:158:CYS:SG	1:M:284:SER:CB	2.43	1.06
1:A:540:VAL:HG13	1:A:575:GLU:HB3	1.37	1.05
1:M:179:PRO:HD2	1:M:237:ARG:HH11	1.11	1.05
1:A:179:PRO:CD	1:A:237:ARG:HH11	1.68	1.05
1:A:298:PHE:CE2	1:A:325:SER:HA	1.89	1.05
1:E:158:CYS:SG	1:E:284:SER:CB	2.43	1.05
1:E:179:PRO:CD	1:E:237:ARG:HH11	1.68	1.05
1:K:1185:PHE:HE1	1:K:1192:LEU:HD11	1.10	1.05
1:E:544:PHE:CD1	1:E:576:VAL:CG1	2.40	1.05
1:E:879:ARG:HB3	1:E:921:MET:HE1	1.37	1.05
1:G:158:CYS:SG	1:G:284:SER:CB	2.43	1.05
1:G:597:TRP:CH2	1:G:603:ILE:HD11	1.92	1.05
1:I:158:CYS:SG	1:I:284:SER:CB	2.43	1.05
1:K:179:PRO:HD2	1:K:237:ARG:HH11	1.12	1.05
1:K:882:LEU:H	1:K:882:LEU:HD22	0.98	1.05
1:M:1200:LYS:HD3	1:M:1202:TRP:CE2	1.91	1.05
1:C:179:PRO:CD	1:C:237:ARG:HH11	1.68	1.05
1:G:1185:PHE:HE1	1:G:1192:LEU:HD11	1.10	1.05
1:I:1200:LYS:HD3	1:I:1202:TRP:CZ2	1.92	1.05
1:A:212:PHE:HB3	1:A:226:ARG:HH12	0.94	1.05
1:E:923:LYS:CB	1:E:940:VAL:HG23	1.87	1.05
1:K:158:CYS:SG	1:K:284:SER:CB	2.43	1.05
1:K:179:PRO:CD	1:K:237:ARG:HH11	1.68	1.05
1:K:212:PHE:HB3	1:K:226:ARG:HH12	0.94	1.05
1:M:540:VAL:HG13	1:M:575:GLU:HB3	1.37	1.05
1:A:597:TRP:CH2	1:A:603:ILE:HD11	1.92	1.04
1:E:520:ALA:HB1	1:E:648:GLU:HB2	1.09	1.04
1:I:1200:LYS:HD3	1:I:1202:TRP:CE2	1.91	1.04
1:K:473:LEU:HD21	1:K:484:TYR:CZ	1.90	1.04
1:K:520:ALA:HB1	1:K:648:GLU:HB2	1.09	1.04
1:M:212:PHE:HB3	1:M:226:ARG:NH1	1.72	1.04
1:C:597:TRP:CH2	1:C:603:ILE:HD11	1.92	1.04
1:C:923:LYS:CB	1:C:940:VAL:HG23	1.87	1.04
1:E:948:LEU:HD12	1:E:957:ASP:OD2	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:PHE:HB3	1:A:226:ARG:NH1	1.72	1.04
1:A:529:TYR:O	1:A:532:ILE:HG23	1.54	1.04
1:A:931:GLN:O	1:A:932:GLU:HB2	1.58	1.04
1:A:948:LEU:HD12	1:A:957:ASP:OD2	1.57	1.04
1:C:179:PRO:CD	1:C:237:ARG:NH1	2.21	1.04
1:E:179:PRO:CD	1:E:237:ARG:NH1	2.21	1.04
1:E:597:TRP:CH2	1:E:603:ILE:HD11	1.92	1.04
1:E:1200:LYS:HD3	1:E:1202:TRP:CE2	1.91	1.04
1:G:179:PRO:CD	1:G:237:ARG:HH11	1.68	1.04
1:G:179:PRO:CD	1:G:237:ARG:NH1	2.21	1.04
1:G:923:LYS:CB	1:G:940:VAL:HG23	1.87	1.04
1:G:1200:LYS:HD3	1:G:1202:TRP:CE2	1.91	1.04
1:I:155:MET:HE3	1:I:441:GLN:NE2	1.73	1.04
1:I:473:LEU:HD21	1:I:484:TYR:CZ	1.91	1.04
1:I:597:TRP:CH2	1:I:603:ILE:HD11	1.92	1.04
1:I:1146:ASP:O	1:I:1180:VAL:HG21	1.58	1.04
1:I:1185:PHE:HE1	1:I:1192:LEU:HD11	1.10	1.04
1:K:948:LEU:HD12	1:K:957:ASP:OD2	1.57	1.04
1:K:1200:LYS:HD3	1:K:1202:TRP:CE2	1.91	1.04
1:M:212:PHE:HB3	1:M:226:ARG:HH12	0.94	1.04
1:C:544:PHE:CD1	1:C:576:VAL:CG1	2.40	1.04
1:C:879:ARG:HB3	1:C:921:MET:HE1	1.38	1.04
1:C:1200:LYS:HD3	1:C:1202:TRP:CE2	1.91	1.04
1:G:1146:ASP:O	1:G:1180:VAL:HG21	1.58	1.04
1:I:179:PRO:CD	1:I:237:ARG:NH1	2.21	1.04
1:I:212:PHE:HB3	1:I:226:ARG:HH12	0.93	1.04
1:K:1146:ASP:O	1:K:1180:VAL:HG21	1.58	1.04
1:M:923:LYS:CB	1:M:940:VAL:HG23	1.87	1.04
1:M:931:GLN:O	1:M:932:GLU:HB2	1.58	1.04
1:C:529:TYR:O	1:C:532:ILE:HG23	1.54	1.04
1:I:931:GLN:O	1:I:932:GLU:HB2	1.58	1.04
1:K:179:PRO:CD	1:K:237:ARG:NH1	2.21	1.04
1:K:597:TRP:CH2	1:K:603:ILE:HD11	1.92	1.04
1:K:923:LYS:CB	1:K:940:VAL:HG23	1.87	1.04
1:A:179:PRO:CD	1:A:237:ARG:NH1	2.21	1.03
1:A:881:HIS:CE1	1:A:901:SER:HB3	1.93	1.03
1:A:1146:ASP:O	1:A:1180:VAL:HG21	1.58	1.03
1:C:155:MET:HE3	1:C:441:GLN:NE2	1.72	1.03
1:C:639:LEU:HD21	1:C:653:ILE:HD12	1.38	1.03
1:E:639:LEU:HD21	1:E:653:ILE:HD12	1.38	1.03
1:G:212:PHE:HB3	1:G:226:ARG:NH1	1.72	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:931:GLN:O	1:G:932:GLU:HB2	1.58	1.03
1:G:1200:LYS:HD3	1:G:1202:TRP:CZ2	1.92	1.03
1:I:122:ARG:NH2	1:I:126:PHE:CZ	2.27	1.03
1:I:923:LYS:CB	1:I:940:VAL:HG23	1.87	1.03
1:I:948:LEU:HD12	1:I:957:ASP:OD2	1.57	1.03
1:C:453:LEU:HD11	1:C:454:GLN:HE21	1.14	1.03
1:C:881:HIS:CE1	1:C:901:SER:HB3	1.93	1.03
1:C:948:LEU:HD12	1:C:957:ASP:OD2	1.57	1.03
1:E:298:PHE:HE2	1:E:325:SER:HA	1.16	1.03
1:E:1200:LYS:HD3	1:E:1202:TRP:CZ2	1.92	1.03
1:K:212:PHE:HB3	1:K:226:ARG:NH1	1.72	1.03
1:K:1200:LYS:HD3	1:K:1202:TRP:CZ2	1.92	1.03
1:M:155:MET:HE3	1:M:441:GLN:NE2	1.73	1.03
1:M:881:HIS:CE1	1:M:901:SER:HB3	1.93	1.03
1:A:923:LYS:CB	1:A:940:VAL:HG23	1.87	1.03
1:C:212:PHE:HB3	1:C:226:ARG:NH1	1.72	1.03
1:C:1200:LYS:HD3	1:C:1202:TRP:CZ2	1.92	1.03
1:E:529:TYR:O	1:E:532:ILE:HG23	1.54	1.03
1:E:1146:ASP:O	1:E:1180:VAL:HG21	1.58	1.03
1:K:419:VAL:HG11	1:K:426:CYS:SG	1.99	1.03
1:K:931:GLN:O	1:K:932:GLU:HB2	1.58	1.03
1:M:544:PHE:CD1	1:M:576:VAL:CG1	2.40	1.03
1:M:1200:LYS:HD3	1:M:1202:TRP:CZ2	1.92	1.03
1:A:544:PHE:CD1	1:A:576:VAL:CG1	2.40	1.03
1:A:1200:LYS:HD3	1:A:1202:TRP:CZ2	1.92	1.03
1:E:122:ARG:NH2	1:E:126:PHE:CZ	2.27	1.03
1:E:212:PHE:HB3	1:E:226:ARG:NH1	1.72	1.03
1:E:419:VAL:HG11	1:E:426:CYS:SG	1.99	1.03
1:G:419:VAL:HG11	1:G:426:CYS:SG	1.99	1.03
1:G:656:HIS:CE1	1:G:676:SER:HB3	1.94	1.03
1:G:948:LEU:HD12	1:G:957:ASP:OD2	1.57	1.03
1:I:212:PHE:HB3	1:I:226:ARG:NH1	1.72	1.03
1:I:656:HIS:CE1	1:I:676:SER:HB3	1.94	1.03
1:I:658:ASP:OD2	1:I:677:VAL:HB	1.59	1.03
1:K:298:PHE:HE2	1:K:325:SER:HA	1.16	1.03
1:K:544:PHE:CD1	1:K:576:VAL:CG1	2.40	1.03
1:M:122:ARG:NH2	1:M:126:PHE:CZ	2.27	1.03
1:M:597:TRP:CH2	1:M:603:ILE:HD11	1.92	1.03
1:M:862:TYR:CE1	1:M:881:HIS:CB	2.42	1.03
1:A:419:VAL:HG11	1:A:426:CYS:SG	1.99	1.03
1:G:298:PHE:HE2	1:G:325:SER:HA	1.16	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:122:ARG:NH2	1:K:126:PHE:CZ	2.27	1.03
1:K:656:HIS:CE1	1:K:676:SER:HB3	1.94	1.03
1:M:656:HIS:CE1	1:M:676:SER:HB3	1.94	1.03
1:M:948:LEU:HD12	1:M:957:ASP:OD2	1.57	1.03
1:E:881:HIS:CE1	1:E:901:SER:HB3	1.93	1.02
1:M:419:VAL:HG11	1:M:426:CYS:SG	1.99	1.02
1:C:656:HIS:CE1	1:C:676:SER:HB3	1.94	1.02
1:C:658:ASP:OD2	1:C:677:VAL:HB	1.59	1.02
1:C:1146:ASP:O	1:C:1180:VAL:HG21	1.58	1.02
1:E:155:MET:HE3	1:E:441:GLN:NE2	1.75	1.02
1:E:658:ASP:OD2	1:E:677:VAL:HB	1.59	1.02
1:G:639:LEU:HD21	1:G:653:ILE:HD12	1.38	1.02
1:K:315:LYS:O	1:K:318:LYS:HE3	1.59	1.02
1:K:881:HIS:CE1	1:K:901:SER:HB3	1.94	1.02
1:M:658:ASP:OD2	1:M:677:VAL:HB	1.59	1.02
1:C:419:VAL:HG11	1:C:426:CYS:SG	1.99	1.02
1:G:122:ARG:NH2	1:G:126:PHE:CZ	2.27	1.02
1:G:1194:SER:CB	1:G:1202:TRP:CZ3	2.43	1.02
1:I:419:VAL:HG11	1:I:426:CYS:SG	1.99	1.02
1:K:862:TYR:CE1	1:K:881:HIS:CB	2.42	1.02
1:A:315:LYS:O	1:A:318:LYS:HE3	1.59	1.02
1:A:1220:LEU:HD23	1:A:1234:THR:OG1	1.60	1.02
1:I:1194:SER:CB	1:I:1202:TRP:CZ3	2.43	1.02
1:K:155:MET:HE3	1:K:441:GLN:NE2	1.75	1.02
1:K:639:LEU:HD21	1:K:653:ILE:HD12	1.38	1.02
1:K:658:ASP:OD2	1:K:677:VAL:HB	1.59	1.02
1:A:639:LEU:HD21	1:A:653:ILE:HD12	1.38	1.02
1:C:122:ARG:NH2	1:C:126:PHE:CZ	2.27	1.02
1:C:298:PHE:HE2	1:C:325:SER:HA	1.16	1.02
1:G:315:LYS:O	1:G:318:LYS:HE3	1.59	1.02
1:I:881:HIS:CE1	1:I:901:SER:HB3	1.93	1.02
1:I:1149:GLY:HA2	1:I:1180:VAL:HG22	1.02	1.02
1:I:1220:LEU:HD23	1:I:1234:THR:OG1	1.60	1.02
1:M:179:PRO:CD	1:M:237:ARG:NH1	2.21	1.02
1:M:639:LEU:HD21	1:M:653:ILE:HD12	1.38	1.02
1:M:879:ARG:HB3	1:M:921:MET:HE1	1.42	1.02
1:A:658:ASP:OD2	1:A:677:VAL:HB	1.59	1.01
1:E:1194:SER:CB	1:E:1202:TRP:CZ3	2.43	1.01
1:K:1149:GLY:HA2	1:K:1180:VAL:HG22	1.02	1.01
1:K:1194:SER:CB	1:K:1202:TRP:CZ3	2.43	1.01
1:M:1185:PHE:HE1	1:M:1192:LEU:HD11	1.10	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1194:SER:CB	1:A:1202:TRP:CZ3	2.43	1.01
1:C:931:GLN:O	1:C:932:GLU:HB2	1.58	1.01
1:C:1194:SER:CB	1:C:1202:TRP:CZ3	2.43	1.01
1:E:656:HIS:CE1	1:E:676:SER:HB3	1.94	1.01
1:E:1185:PHE:HE1	1:E:1192:LEU:HD11	1.10	1.01
1:G:881:HIS:CE1	1:G:901:SER:HB3	1.93	1.01
1:G:882:LEU:HB3	1:G:1237:ASN:ND2	1.76	1.01
1:I:544:PHE:CD1	1:I:576:VAL:CG1	2.40	1.01
1:A:122:ARG:NH2	1:A:126:PHE:CZ	2.27	1.01
1:A:155:MET:HE3	1:A:441:GLN:NE2	1.75	1.01
1:C:597:TRP:HH2	1:C:603:ILE:HD11	1.22	1.01
1:G:155:MET:HE3	1:G:441:GLN:NE2	1.73	1.01
1:I:364:LEU:HD11	1:I:368:MET:HE1	1.42	1.01
1:K:882:LEU:HB3	1:K:1237:ASN:ND2	1.76	1.01
2:L:17:CYS:SG	5:L:201:HEM:CBC	2.49	1.01
1:M:364:LEU:HD11	1:M:368:MET:HE1	1.40	1.01
1:A:137:GLN:HG2	1:A:173:LEU:HD22	1.42	1.01
1:E:862:TYR:CE1	1:E:881:HIS:CB	2.42	1.01
1:G:1149:GLY:HA2	1:G:1180:VAL:HG22	1.02	1.01
2:H:17:CYS:SG	5:H:201:HEM:CBC	2.49	1.01
1:M:1146:ASP:O	1:M:1180:VAL:HG21	1.58	1.01
1:C:225:ASP:O	1:C:229:ILE:HG13	1.61	1.01
1:E:315:LYS:O	1:E:318:LYS:HE3	1.59	1.01
1:G:1220:LEU:HD23	1:G:1234:THR:OG1	1.60	1.01
1:M:315:LYS:O	1:M:318:LYS:HE3	1.59	1.01
1:M:1194:SER:CB	1:M:1202:TRP:CZ3	2.43	1.01
1:E:903:ASP:O	1:E:1175:THR:HG22	1.61	1.00
1:G:225:ASP:O	1:G:229:ILE:HG13	1.61	1.00
1:A:656:HIS:CE1	1:A:676:SER:HB3	1.94	1.00
1:C:862:TYR:CE1	1:C:881:HIS:CB	2.42	1.00
1:E:931:GLN:O	1:E:932:GLU:HB2	1.58	1.00
1:G:137:GLN:HG2	1:G:173:LEU:HD22	1.42	1.00
1:I:137:GLN:HG2	1:I:173:LEU:HD22	1.42	1.00
1:I:315:LYS:O	1:I:318:LYS:HE3	1.59	1.00
1:I:639:LEU:HD21	1:I:653:ILE:HD12	1.38	1.00
1:I:882:LEU:HB3	1:I:1237:ASN:ND2	1.76	1.00
1:M:1149:GLY:HA2	1:M:1180:VAL:HG22	1.02	1.00
1:M:1220:LEU:HD23	1:M:1234:THR:OG1	1.60	1.00
2:N:17:CYS:SG	5:N:201:HEM:CBC	2.49	1.00
1:A:882:LEU:HB3	1:A:1237:ASN:ND2	1.75	1.00
1:C:315:LYS:O	1:C:318:LYS:HE3	1.59	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:882:LEU:HB3	1:C:1237:ASN:ND2	1.76	1.00
1:C:1220:LEU:HD23	1:C:1234:THR:OG1	1.60	1.00
1:E:229:ILE:HG22	1:E:233:ARG:HD3	1.43	1.00
1:E:882:LEU:HB3	1:E:1237:ASN:ND2	1.76	1.00
1:G:658:ASP:OD2	1:G:677:VAL:HB	1.59	1.00
1:G:903:ASP:O	1:G:1175:THR:HG22	1.61	1.00
1:M:225:ASP:O	1:M:229:ILE:HG13	1.61	1.00
1:M:294:ILE:HG21	1:M:324:VAL:HG11	1.44	1.00
1:M:903:ASP:O	1:M:1175:THR:HG22	1.61	1.00
1:C:903:ASP:O	1:C:1175:THR:HG22	1.61	1.00
2:D:17:CYS:SG	5:D:201:HEM:CBC	2.49	1.00
2:F:17:CYS:SG	5:F:201:HEM:CBC	2.49	1.00
1:A:298:PHE:HE2	1:A:325:SER:HA	1.16	1.00
1:A:294:ILE:HG21	1:A:324:VAL:HG11	1.43	1.00
1:A:1185:PHE:HE1	1:A:1192:LEU:CG	1.73	1.00
1:C:137:GLN:HG2	1:C:173:LEU:HD22	1.42	1.00
1:G:229:ILE:HG22	1:G:233:ARG:HD3	1.42	1.00
1:A:1149:GLY:HA2	1:A:1180:VAL:HG22	1.02	0.99
1:E:1220:LEU:HD23	1:E:1234:THR:OG1	1.60	0.99
2:J:17:CYS:SG	5:J:201:HEM:CBC	2.49	0.99
1:K:364:LEU:HD11	1:K:368:MET:HE1	1.41	0.99
1:C:229:ILE:HG22	1:C:233:ARG:HD3	1.42	0.99
1:E:171:HIS:HD2	1:E:175:GLU:HB2	1.25	0.99
1:K:225:ASP:O	1:K:229:ILE:HG13	1.61	0.99
1:M:137:GLN:HG2	1:M:173:LEU:HD22	1.42	0.99
1:E:1149:GLY:HA2	1:E:1180:VAL:HG22	1.02	0.99
1:G:862:TYR:CE1	1:G:881:HIS:CB	2.42	0.99
1:I:1185:PHE:HE1	1:I:1192:LEU:CG	1.73	0.99
1:K:903:ASP:O	1:K:1175:THR:HG22	1.61	0.99
1:A:229:ILE:HG22	1:A:233:ARG:HD3	1.43	0.99
1:E:225:ASP:O	1:E:229:ILE:HG13	1.61	0.99
1:E:1194:SER:HB2	1:E:1202:TRP:CZ3	1.98	0.99
1:G:544:PHE:CD1	1:G:576:VAL:CG1	2.40	0.99
1:A:1194:SER:HB2	1:A:1202:TRP:CZ3	1.98	0.99
5:B:201:HEM:HBC2	5:B:201:HEM:HMC1	1.44	0.99
1:I:903:ASP:O	1:I:1175:THR:HG22	1.61	0.99
1:K:239:LEU:HD12	1:K:240:LEU:N	1.78	0.99
1:C:1149:GLY:HA2	1:C:1180:VAL:HG22	1.02	0.99
1:G:239:LEU:HD12	1:G:240:LEU:N	1.78	0.99
1:M:158:CYS:HG	1:M:284:SER:HB2	0.87	0.99
1:M:882:LEU:HB3	1:M:1237:ASN:ND2	1.76	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:201:HEM:HBC2	5:N:201:HEM:HMC1	1.44	0.99
1:I:879:ARG:HB3	1:I:921:MET:HE1	1.44	0.98
1:K:1185:PHE:HE1	1:K:1192:LEU:CG	1.73	0.98
1:A:903:ASP:O	1:A:1175:THR:HG22	1.61	0.98
2:B:17:CYS:SG	5:B:201:HEM:CBC	2.49	0.98
1:I:239:LEU:HD12	1:I:240:LEU:N	1.78	0.98
1:K:294:ILE:HG21	1:K:324:VAL:HG11	1.44	0.98
1:K:1220:LEU:HD23	1:K:1234:THR:OG1	1.60	0.98
1:A:614:HIS:CE1	1:A:640:GLN:CG	2.47	0.98
1:K:1194:SER:HB2	1:K:1202:TRP:CZ3	1.98	0.98
1:A:1233:VAL:HG11	1:A:1243:ILE:HG12	1.46	0.98
1:C:923:LYS:HB2	1:C:940:VAL:CG2	1.94	0.98
1:E:239:LEU:HD12	1:E:240:LEU:N	1.78	0.98
1:I:473:LEU:HD11	1:I:480:CYS:CB	1.93	0.98
1:A:862:TYR:HB2	1:A:884:TRP:HA	1.46	0.98
1:E:137:GLN:HG2	1:E:173:LEU:HD22	1.42	0.98
1:E:923:LYS:HB2	1:E:940:VAL:CG2	1.94	0.98
1:I:882:LEU:HD22	1:I:882:LEU:N	1.78	0.98
1:K:137:GLN:HG2	1:K:173:LEU:HD22	1.42	0.98
1:K:229:ILE:HG22	1:K:233:ARG:HD3	1.43	0.98
5:L:201:HEM:HBC2	5:L:201:HEM:HMC1	1.44	0.98
1:A:597:TRP:HH2	1:A:603:ILE:HD11	1.22	0.98
1:A:923:LYS:HB2	1:A:940:VAL:CG2	1.94	0.98
1:E:520:ALA:CB	1:E:648:GLU:HB2	1.94	0.98
1:E:614:HIS:CE1	1:E:640:GLN:CG	2.47	0.98
1:G:520:ALA:CB	1:G:648:GLU:HB2	1.94	0.98
1:I:1194:SER:HB2	1:I:1202:TRP:CZ3	1.98	0.98
1:K:882:LEU:HD22	1:K:882:LEU:N	1.78	0.98
1:M:229:ILE:HG22	1:M:233:ARG:HD3	1.42	0.98
1:M:862:TYR:HB2	1:M:884:TRP:HA	1.46	0.98
1:A:225:ASP:O	1:A:229:ILE:HG13	1.61	0.98
5:D:201:HEM:HBC2	5:D:201:HEM:HMC1	1.44	0.98
1:G:473:LEU:HD11	1:G:480:CYS:CB	1.93	0.98
1:K:862:TYR:HB2	1:K:884:TRP:HA	1.46	0.98
1:M:614:HIS:CE1	1:M:640:GLN:CG	2.47	0.98
1:A:473:LEU:HD11	1:A:480:CYS:CB	1.93	0.98
1:C:1233:VAL:HG11	1:C:1243:ILE:HG12	1.46	0.98
1:M:1220:LEU:H	1:M:1220:LEU:CD1	1.77	0.98
1:A:862:TYR:CE1	1:A:881:HIS:CB	2.42	0.97
1:E:1220:LEU:H	1:E:1220:LEU:CD1	1.77	0.97
1:I:225:ASP:O	1:I:229:ILE:HG13	1.61	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1194:SER:HB2	1:M:1202:TRP:CZ3	1.98	0.97
1:M:1233:VAL:HG11	1:M:1243:ILE:HG12	1.46	0.97
1:C:473:LEU:HD11	1:C:480:CYS:CB	1.93	0.97
1:C:614:HIS:CE1	1:C:640:GLN:CG	2.47	0.97
1:C:862:TYR:HB2	1:C:884:TRP:HA	1.46	0.97
1:G:364:LEU:HD11	1:G:368:MET:HE1	1.46	0.97
1:I:1220:LEU:H	1:I:1220:LEU:CD1	1.77	0.97
1:K:1233:VAL:HG11	1:K:1243:ILE:HG12	1.46	0.97
1:G:882:LEU:HD22	1:G:882:LEU:N	1.78	0.97
5:J:201:HEM:HBC2	5:J:201:HEM:HMC1	1.44	0.97
1:A:212:PHE:CB	1:A:226:ARG:HH12	1.78	0.97
1:G:614:HIS:CE1	1:G:640:GLN:CG	2.47	0.97
1:I:520:ALA:CB	1:I:648:GLU:HB2	1.94	0.97
1:C:239:LEU:HD12	1:C:240:LEU:N	1.78	0.97
1:E:431:LYS:HZ3	1:G:336:ASN:HB3	1.27	0.97
1:I:614:HIS:CE1	1:I:640:GLN:CG	2.47	0.97
1:K:1171:GLU:HG3	1:K:1172:GLY:H	1.30	0.97
1:C:520:ALA:CB	1:C:648:GLU:HB2	1.93	0.97
1:G:1194:SER:HB2	1:G:1202:TRP:CZ3	1.98	0.97
1:I:862:TYR:HB2	1:I:884:TRP:HA	1.46	0.97
1:I:984:ALA:HA	1:I:999:ARG:O	1.65	0.97
1:K:473:LEU:HD11	1:K:480:CYS:CB	1.93	0.97
1:K:614:HIS:CE1	1:K:640:GLN:CG	2.47	0.97
1:M:212:PHE:CB	1:M:226:ARG:HH12	1.78	0.97
1:C:1194:SER:HB2	1:C:1202:TRP:CZ3	1.98	0.97
1:G:879:ARG:HB3	1:G:921:MET:HE1	1.47	0.97
1:G:923:LYS:HB2	1:G:940:VAL:CG2	1.94	0.97
1:G:1213:PHE:O	1:G:1214:TYR:HB2	1.64	0.97
1:M:1171:GLU:HG3	1:M:1172:GLY:H	1.30	0.97
1:C:294:ILE:HG21	1:C:324:VAL:HG11	1.43	0.97
1:C:409:GLU:HG3	1:E:340:TYR:OH	1.65	0.97
1:E:409:GLU:HG3	1:G:340:TYR:OH	1.65	0.97
1:E:984:ALA:HA	1:E:999:ARG:O	1.65	0.97
1:G:212:PHE:CB	1:G:226:ARG:HH12	1.78	0.97
1:G:294:ILE:HG21	1:G:324:VAL:HG11	1.44	0.97
5:H:201:HEM:HBC2	5:H:201:HEM:HMC1	1.44	0.97
1:K:614:HIS:CE1	1:K:640:GLN:HG2	2.00	0.97
1:M:614:HIS:CE1	1:M:640:GLN:HG2	2.00	0.97
1:M:882:LEU:HD22	1:M:882:LEU:N	1.78	0.97
1:A:409:GLU:HG3	1:C:340:TYR:OH	1.65	0.97
1:C:1220:LEU:H	1:C:1220:LEU:CD1	1.77	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:409:GLU:HG3	1:I:340:TYR:OH	1.65	0.97
1:G:984:ALA:HA	1:G:999:ARG:O	1.65	0.97
1:I:1171:GLU:HG3	1:I:1172:GLY:H	1.30	0.97
1:K:597:TRP:HH2	1:K:603:ILE:HD11	1.22	0.97
1:M:473:LEU:HD11	1:M:480:CYS:CB	1.93	0.97
1:M:923:LYS:HB2	1:M:940:VAL:CG2	1.94	0.97
1:A:239:LEU:HD12	1:A:240:LEU:N	1.78	0.96
5:F:201:HEM:HBC2	5:F:201:HEM:HMC1	1.44	0.96
1:I:1233:VAL:HG11	1:I:1243:ILE:HG12	1.46	0.96
1:M:239:LEU:HD12	1:M:240:LEU:N	1.78	0.96
1:A:1220:LEU:H	1:A:1220:LEU:CD1	1.77	0.96
1:C:212:PHE:CB	1:C:226:ARG:HH12	1.78	0.96
1:G:1185:PHE:HE1	1:G:1192:LEU:CG	1.73	0.96
1:I:409:GLU:HG3	1:K:340:TYR:OH	1.65	0.96
1:A:1171:GLU:HG3	1:A:1172:GLY:H	1.30	0.96
1:E:359:TYR:HD1	1:E:360:ASP:N	1.63	0.96
1:E:561:PRO:HB3	1:E:1214:TYR:CD2	2.01	0.96
1:E:1185:PHE:HE1	1:E:1192:LEU:CG	1.73	0.96
1:G:1220:LEU:H	1:G:1220:LEU:CD1	1.77	0.96
1:I:614:HIS:CE1	1:I:640:GLN:HG2	2.00	0.96
1:K:212:PHE:CB	1:K:226:ARG:HH12	1.78	0.96
1:K:879:ARG:HB3	1:K:921:MET:HE1	1.45	0.96
1:K:984:ALA:HA	1:K:999:ARG:O	1.65	0.96
1:A:614:HIS:CE1	1:A:640:GLN:HG2	2.00	0.96
1:I:359:TYR:HD1	1:I:360:ASP:N	1.64	0.96
1:M:984:ALA:HA	1:M:999:ARG:O	1.65	0.96
1:M:1185:PHE:HE1	1:M:1192:LEU:CG	1.73	0.96
1:C:1171:GLU:HG3	1:C:1172:GLY:H	1.30	0.96
1:I:1213:PHE:O	1:I:1214:TYR:HB2	1.64	0.96
1:A:340:TYR:OH	1:M:409:GLU:HG3	1.65	0.96
1:G:1171:GLU:HG3	1:G:1172:GLY:H	1.30	0.96
1:I:212:PHE:CB	1:I:226:ARG:HH12	1.78	0.96
1:I:597:TRP:HH2	1:I:603:ILE:HD11	1.22	0.96
1:A:984:ALA:HA	1:A:999:ARG:O	1.65	0.96
1:C:364:LEU:HD11	1:C:368:MET:HE1	1.48	0.96
1:E:1213:PHE:O	1:E:1214:TYR:HB2	1.64	0.96
1:G:614:HIS:CE1	1:G:640:GLN:HG2	2.00	0.96
1:I:229:ILE:HG22	1:I:233:ARG:HD3	1.42	0.96
1:K:1220:LEU:H	1:K:1220:LEU:CD1	1.77	0.96
1:M:561:PRO:HB3	1:M:1214:TYR:CD2	2.01	0.96
1:C:146:GLU:HG3	1:E:111:ARG:NH1	1.81	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:561:PRO:HB3	1:C:1214:TYR:CD2	2.01	0.96
1:E:882:LEU:HD22	1:E:882:LEU:N	1.78	0.96
1:E:1171:GLU:HG3	1:E:1172:GLY:H	1.30	0.96
1:G:146:GLU:HG3	1:I:111:ARG:NH1	1.81	0.96
1:G:1149:GLY:CA	1:G:1180:VAL:HG22	1.96	0.96
1:M:597:TRP:HH2	1:M:603:ILE:HD11	1.22	0.96
1:M:1149:GLY:CA	1:M:1180:VAL:HG22	1.96	0.96
1:A:146:GLU:HG3	1:C:111:ARG:NH1	1.81	0.96
1:A:520:ALA:CB	1:A:648:GLU:HB2	1.93	0.96
1:A:882:LEU:HD22	1:A:882:LEU:N	1.78	0.96
1:C:1194:SER:CB	1:C:1202:TRP:HZ3	1.79	0.96
1:E:294:ILE:HG21	1:E:324:VAL:HG11	1.43	0.96
1:E:473:LEU:HD11	1:E:480:CYS:CB	1.93	0.96
1:I:294:ILE:HG21	1:I:324:VAL:HG11	1.44	0.96
1:I:862:TYR:CE1	1:I:881:HIS:CB	2.42	0.96
1:I:923:LYS:HB2	1:I:940:VAL:CG2	1.94	0.96
1:I:1220:LEU:HD12	1:I:1220:LEU:N	1.81	0.96
1:K:520:ALA:CB	1:K:648:GLU:HB2	1.94	0.96
1:A:364:LEU:HD11	1:A:368:MET:HE1	1.48	0.96
1:A:879:ARG:HB3	1:A:921:MET:HE1	1.45	0.96
1:C:614:HIS:CE1	1:C:640:GLN:HG2	2.00	0.96
1:G:875:VAL:HG11	1:G:915:CYS:SG	2.06	0.96
1:I:875:VAL:HG11	1:I:915:CYS:SG	2.06	0.96
1:I:1149:GLY:CA	1:I:1180:VAL:HG22	1.96	0.96
1:K:875:VAL:HG11	1:K:915:CYS:SG	2.06	0.96
1:M:520:ALA:CB	1:M:648:GLU:HB2	1.94	0.96
1:A:477:GLN:HA	1:A:477:GLN:HE21	1.31	0.95
1:A:561:PRO:HB3	1:A:1214:TYR:CD2	2.01	0.95
1:C:1185:PHE:HE1	1:C:1192:LEU:CG	1.73	0.95
1:E:477:GLN:HE21	1:E:477:GLN:HA	1.31	0.95
1:I:928:VAL:HG12	1:I:937:VAL:HA	1.48	0.95
1:K:158:CYS:HG	1:K:284:SER:HB2	0.85	0.95
1:K:1149:GLY:CA	1:K:1180:VAL:HG22	1.96	0.95
1:E:862:TYR:HB2	1:E:884:TRP:HA	1.46	0.95
1:E:1194:SER:CB	1:E:1202:TRP:HZ3	1.79	0.95
1:E:1233:VAL:HG11	1:E:1243:ILE:HG12	1.46	0.95
1:G:597:TRP:HH2	1:G:603:ILE:HD11	1.22	0.95
1:G:928:VAL:HG12	1:G:937:VAL:HA	1.48	0.95
1:G:1220:LEU:HD12	1:G:1220:LEU:N	1.81	0.95
1:G:1233:VAL:HG11	1:G:1243:ILE:HG12	1.46	0.95
1:I:146:GLU:HG3	1:K:111:ARG:HH12	1.32	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:409:GLU:HG3	1:M:340:TYR:OH	1.65	0.95
1:A:111:ARG:NH1	1:M:146:GLU:HG3	1.81	0.95
1:C:984:ALA:HA	1:C:999:ARG:O	1.65	0.95
1:E:212:PHE:CB	1:E:226:ARG:HH12	1.78	0.95
1:I:876:ALA:HB3	1:I:914:VAL:O	1.66	0.95
1:A:928:VAL:HG12	1:A:937:VAL:HA	1.48	0.95
1:E:614:HIS:CE1	1:E:640:GLN:HG2	2.00	0.95
1:C:882:LEU:HD22	1:C:882:LEU:N	1.78	0.95
1:E:597:TRP:HH2	1:E:603:ILE:HD11	1.22	0.95
1:K:876:ALA:HB3	1:K:914:VAL:O	1.66	0.95
1:M:1220:LEU:HD12	1:M:1220:LEU:N	1.81	0.95
1:E:875:VAL:HG11	1:E:915:CYS:SG	2.06	0.95
1:G:561:PRO:HB3	1:G:1214:TYR:CD2	2.01	0.95
1:A:137:GLN:CG	1:A:173:LEU:HD22	1.96	0.95
1:A:146:GLU:HG3	1:C:111:ARG:HH12	1.32	0.95
1:E:146:GLU:HG3	1:G:111:ARG:HH12	1.32	0.95
1:G:876:ALA:HB3	1:G:914:VAL:O	1.66	0.95
1:K:146:GLU:HG3	1:M:111:ARG:NH1	1.81	0.95
1:M:137:GLN:CG	1:M:173:LEU:HD22	1.96	0.95
1:A:359:TYR:HD1	1:A:360:ASP:N	1.63	0.95
2:D:17:CYS:HG	5:D:201:HEM:CBC	1.80	0.95
1:K:923:LYS:HB2	1:K:940:VAL:CG2	1.94	0.95
1:M:875:VAL:HG11	1:M:915:CYS:SG	2.06	0.95
1:C:477:GLN:HA	1:C:477:GLN:HE21	1.31	0.95
1:E:999:ARG:HD3	1:E:1030:TRP:NE1	1.82	0.95
1:G:359:TYR:HD1	1:G:360:ASP:N	1.63	0.95
1:I:561:PRO:HB3	1:I:1214:TYR:CD2	2.01	0.95
1:K:359:TYR:HD1	1:K:360:ASP:N	1.63	0.95
1:M:928:VAL:HG12	1:M:937:VAL:HA	1.48	0.95
1:M:1213:PHE:O	1:M:1214:TYR:HB2	1.64	0.95
1:C:999:ARG:HD3	1:C:1030:TRP:NE1	1.82	0.95
1:G:171:HIS:HD2	1:G:175:GLU:HB2	1.25	0.95
1:K:561:PRO:HB3	1:K:1214:TYR:CD2	2.01	0.95
1:K:999:ARG:HD3	1:K:1030:TRP:NE1	1.82	0.95
1:M:359:TYR:HD1	1:M:360:ASP:N	1.63	0.95
1:C:137:GLN:CG	1:C:173:LEU:HD22	1.96	0.94
1:C:876:ALA:HB3	1:C:914:VAL:O	1.66	0.94
1:K:137:GLN:CG	1:K:173:LEU:HD22	1.96	0.94
1:E:137:GLN:CG	1:E:173:LEU:HD22	1.96	0.94
1:I:171:HIS:HD2	1:I:175:GLU:HB2	1.25	0.94
1:K:1220:LEU:HD12	1:K:1220:LEU:N	1.81	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:558:GLN:HB3	1:M:559:PRO:HD3	1.48	0.94
2:B:14:CYS:SG	5:B:201:HEM:CBB	2.56	0.94
1:C:171:HIS:HD2	1:C:175:GLU:HB2	1.25	0.94
1:C:875:VAL:HG11	1:C:915:CYS:SG	2.06	0.94
1:E:146:GLU:HG3	1:G:111:ARG:NH1	1.81	0.94
1:M:876:ALA:HB3	1:M:914:VAL:O	1.66	0.94
1:A:394:LYS:HB3	1:A:434:ARG:CB	1.98	0.94
1:C:525:GLU:O	1:C:528:GLU:HG3	1.67	0.94
2:D:14:CYS:SG	5:D:201:HEM:CBB	2.56	0.94
1:G:477:GLN:HA	1:G:477:GLN:HE21	1.31	0.94
1:I:999:ARG:HD3	1:I:1030:TRP:NE1	1.82	0.94
1:A:875:VAL:HG11	1:A:915:CYS:SG	2.06	0.94
1:C:230:LEU:CD2	1:C:234:LYS:HG3	1.98	0.94
1:E:876:ALA:HB3	1:E:914:VAL:O	1.66	0.94
1:E:928:VAL:HG12	1:E:937:VAL:HA	1.48	0.94
1:G:862:TYR:HB2	1:G:884:TRP:HA	1.46	0.94
1:K:639:LEU:H	1:K:653:ILE:CG2	1.81	0.94
1:K:902:ASP:CG	2:L:72:LYS:HZ2	1.71	0.94
1:M:394:LYS:HB3	1:M:434:ARG:CB	1.98	0.94
1:M:639:LEU:H	1:M:653:ILE:CG2	1.81	0.94
1:A:111:ARG:HH12	1:M:146:GLU:HG3	1.32	0.94
1:A:525:GLU:O	1:A:528:GLU:HG3	1.67	0.94
1:A:558:GLN:HB3	1:A:559:PRO:HD3	1.48	0.94
1:A:1213:PHE:O	1:A:1214:TYR:HB2	1.64	0.94
1:E:364:LEU:HD11	1:E:368:MET:HE1	1.49	0.94
1:G:137:GLN:CG	1:G:173:LEU:HD22	1.96	0.94
2:H:14:CYS:SG	5:H:201:HEM:CBB	2.56	0.94
1:K:477:GLN:HA	1:K:477:GLN:HE21	1.31	0.94
1:A:230:LEU:CD2	1:A:234:LYS:HG3	1.98	0.94
1:A:999:ARG:HD3	1:A:1030:TRP:NE1	1.82	0.94
1:C:359:TYR:HD1	1:C:360:ASP:N	1.64	0.94
1:C:639:LEU:H	1:C:653:ILE:CG2	1.81	0.94
1:C:1220:LEU:HD12	1:C:1220:LEU:N	1.81	0.94
1:G:1194:SER:CB	1:G:1202:TRP:HZ3	1.79	0.94
1:I:137:GLN:CG	1:I:173:LEU:HD22	1.96	0.94
1:I:657:GLU:HG2	1:I:680:LYS:NZ	1.83	0.94
2:J:14:CYS:SG	5:J:201:HEM:CBB	2.56	0.94
1:M:999:ARG:HD3	1:M:1030:TRP:NE1	1.82	0.94
1:A:876:ALA:HB3	1:A:914:VAL:O	1.66	0.94
1:C:1213:PHE:O	1:C:1214:TYR:HB2	1.64	0.94
1:E:525:GLU:O	1:E:528:GLU:HG3	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:639:LEU:H	1:E:653:ILE:CG2	1.81	0.94
1:I:558:GLN:HB3	1:I:559:PRO:HD3	1.48	0.94
1:I:639:LEU:H	1:I:653:ILE:CG2	1.81	0.94
1:C:359:TYR:CD1	1:C:360:ASP:N	2.36	0.94
1:E:230:LEU:CD2	1:E:234:LYS:HG3	1.98	0.94
1:E:902:ASP:CG	2:F:72:LYS:HZ2	1.70	0.94
1:G:230:LEU:CD2	1:G:234:LYS:HG3	1.97	0.94
1:I:146:GLU:HG3	1:K:111:ARG:NH1	1.81	0.94
1:A:902:ASP:CG	2:B:72:LYS:HZ2	1.71	0.93
1:C:394:LYS:HB3	1:C:434:ARG:CB	1.98	0.93
1:C:928:VAL:HG12	1:C:937:VAL:HA	1.48	0.93
1:I:477:GLN:HA	1:I:477:GLN:HE21	1.31	0.93
1:K:394:LYS:HB3	1:K:434:ARG:CB	1.98	0.93
1:M:359:TYR:CD1	1:M:360:ASP:N	2.36	0.93
1:M:525:GLU:O	1:M:528:GLU:HG3	1.67	0.93
2:N:14:CYS:SG	5:N:201:HEM:CBB	2.56	0.93
1:A:359:TYR:CD1	1:A:360:ASP:N	2.36	0.93
1:E:1220:LEU:HD12	1:E:1220:LEU:N	1.81	0.93
1:I:525:GLU:O	1:I:528:GLU:HG3	1.67	0.93
1:K:553:HIS:HB2	1:K:610:VAL:HG11	1.51	0.93
1:K:657:GLU:HG2	1:K:680:LYS:NZ	1.83	0.93
1:A:553:HIS:HB2	1:A:610:VAL:HG11	1.50	0.93
1:G:639:LEU:H	1:G:653:ILE:CG2	1.81	0.93
1:I:553:HIS:HB2	1:I:610:VAL:HG11	1.50	0.93
1:K:359:TYR:CD1	1:K:360:ASP:N	2.36	0.93
2:F:14:CYS:SG	5:F:201:HEM:CBB	2.56	0.93
1:G:657:GLU:HG2	1:G:680:LYS:NZ	1.83	0.93
1:K:230:LEU:CD2	1:K:234:LYS:HG3	1.97	0.93
2:L:14:CYS:SG	5:L:201:HEM:CBB	2.56	0.93
1:M:171:HIS:HD2	1:M:175:GLU:HB2	1.25	0.93
1:I:230:LEU:CD2	1:I:234:LYS:HG3	1.97	0.93
1:K:678:ASP:OD2	1:K:680:LYS:HE3	1.69	0.93
1:K:1213:PHE:O	1:K:1214:TYR:HB2	1.64	0.93
1:M:657:GLU:HG2	1:M:680:LYS:NZ	1.83	0.93
1:G:558:GLN:HB3	1:G:559:PRO:HD3	1.48	0.93
1:A:171:HIS:HD2	1:A:175:GLU:HB2	1.25	0.93
1:E:359:TYR:CD1	1:E:360:ASP:N	2.36	0.93
1:E:394:LYS:HB3	1:E:434:ARG:CB	1.98	0.93
1:G:394:LYS:HB3	1:G:434:ARG:CB	1.98	0.93
1:I:902:ASP:CG	2:J:72:LYS:HZ2	1.71	0.93
1:M:553:HIS:HB2	1:M:610:VAL:HG11	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:657:GLU:HG2	1:E:680:LYS:NZ	1.83	0.93
1:A:639:LEU:H	1:A:653:ILE:CG2	1.81	0.93
1:A:1220:LEU:HD12	1:A:1220:LEU:N	1.81	0.93
1:C:553:HIS:HB2	1:C:610:VAL:HG11	1.50	0.93
1:G:525:GLU:O	1:G:528:GLU:HG3	1.67	0.93
1:I:453:LEU:HA	1:I:456:LEU:CD1	1.99	0.93
1:A:657:GLU:HG2	1:A:680:LYS:NZ	1.83	0.92
1:G:146:GLU:HG3	1:I:111:ARG:HH12	1.32	0.92
1:G:999:ARG:HD3	1:G:1030:TRP:NE1	1.82	0.92
1:A:1194:SER:CB	1:A:1202:TRP:HZ3	1.79	0.92
1:G:453:LEU:HA	1:G:456:LEU:CD1	1.99	0.92
1:G:678:ASP:OD2	1:G:680:LYS:HE3	1.69	0.92
1:I:394:LYS:HB3	1:I:434:ARG:CB	1.98	0.92
1:I:614:HIS:HE1	1:I:640:GLN:CG	1.83	0.92
1:K:453:LEU:HA	1:K:456:LEU:CD1	1.99	0.92
1:K:473:LEU:CD2	1:K:484:TYR:HE1	1.83	0.92
1:M:230:LEU:CD2	1:M:234:LYS:HG3	1.97	0.92
2:N:18:HIS:HE1	2:N:30:PRO:HD2	1.34	0.92
1:A:158:CYS:HG	1:A:284:SER:HB2	0.90	0.92
2:B:18:HIS:HE1	2:B:30:PRO:HD2	1.34	0.92
1:K:558:GLN:HB3	1:K:559:PRO:HD3	1.48	0.92
1:M:453:LEU:HA	1:M:456:LEU:CD1	1.99	0.92
1:M:678:ASP:OD2	1:M:680:LYS:HE3	1.68	0.92
1:A:595:LEU:CD1	1:A:1201:TRP:HZ2	1.78	0.92
1:K:171:HIS:HD2	1:K:175:GLU:HB2	1.25	0.92
1:C:520:ALA:CB	1:C:648:GLU:HA	1.99	0.92
1:C:657:GLU:HG2	1:C:680:LYS:NZ	1.83	0.92
2:J:18:HIS:HE1	2:J:30:PRO:HD2	1.34	0.92
1:A:111:ARG:NH1	1:M:146:GLU:CG	2.33	0.92
1:C:431:LYS:HZ3	1:E:336:ASN:HB3	1.29	0.92
1:C:450:CYS:HA	1:C:453:LEU:HD23	1.52	0.92
1:G:553:HIS:HB2	1:G:610:VAL:HG11	1.50	0.92
1:G:1228:ASP:HB3	1:G:1230:LYS:HG2	1.52	0.92
1:A:450:CYS:HA	1:A:453:LEU:HD23	1.52	0.92
1:E:520:ALA:CB	1:E:648:GLU:HA	1.99	0.92
1:M:477:GLN:HE21	1:M:477:GLN:HA	1.31	0.92
1:C:146:GLU:HG3	1:E:111:ARG:HH12	1.32	0.91
1:C:928:VAL:HG11	1:C:937:VAL:HG12	1.52	0.91
1:E:453:LEU:HA	1:E:456:LEU:CD1	2.00	0.91
1:E:558:GLN:HB3	1:E:559:PRO:HD3	1.48	0.91
1:E:595:LEU:HD11	1:E:1201:TRP:CH2	2.06	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:928:VAL:HG11	1:E:937:VAL:HG12	1.52	0.91
1:K:525:GLU:O	1:K:528:GLU:HG3	1.67	0.91
1:K:928:VAL:HG12	1:K:937:VAL:HA	1.48	0.91
1:K:928:VAL:HG11	1:K:937:VAL:HG12	1.52	0.91
1:A:146:GLU:CG	1:C:111:ARG:NH1	2.33	0.91
1:G:146:GLU:CG	1:I:111:ARG:NH1	2.33	0.91
1:K:520:ALA:CB	1:K:648:GLU:HA	1.99	0.91
1:K:597:TRP:HD1	1:K:1243:ILE:O	1.53	0.91
1:K:1228:ASP:HB3	1:K:1230:LYS:HG2	1.52	0.91
1:M:450:CYS:HA	1:M:453:LEU:HD23	1.52	0.91
1:M:928:VAL:HG11	1:M:937:VAL:HG12	1.52	0.91
1:C:1149:GLY:CA	1:C:1180:VAL:HG22	1.96	0.91
1:E:146:GLU:CG	1:G:111:ARG:NH1	2.33	0.91
1:E:553:HIS:HB2	1:E:610:VAL:HG11	1.50	0.91
1:E:678:ASP:OD2	1:E:680:LYS:HE3	1.68	0.91
1:G:595:LEU:HD11	1:G:1201:TRP:CH2	2.06	0.91
2:H:18:HIS:HE1	2:H:30:PRO:HD2	1.34	0.91
1:I:1185:PHE:O	1:I:1229:PHE:CZ	2.24	0.91
1:I:1194:SER:CB	1:I:1202:TRP:HZ3	1.79	0.91
1:C:558:GLN:HB3	1:C:559:PRO:HD3	1.48	0.91
1:C:595:LEU:HD11	1:C:1201:TRP:CH2	2.06	0.91
1:G:1187:PRO:HG3	1:G:1229:PHE:CG	2.06	0.91
1:I:678:ASP:OD2	1:I:680:LYS:HE3	1.69	0.91
1:K:146:GLU:CG	1:M:111:ARG:NH1	2.33	0.91
1:K:1194:SER:CB	1:K:1202:TRP:HZ3	1.79	0.91
1:M:597:TRP:HD1	1:M:1243:ILE:O	1.53	0.91
1:A:678:ASP:OD2	1:A:680:LYS:HE3	1.68	0.91
1:A:1185:PHE:O	1:A:1229:PHE:CZ	2.24	0.91
2:L:18:HIS:HE1	2:L:30:PRO:HD2	1.34	0.91
1:M:1185:PHE:O	1:M:1229:PHE:CZ	2.24	0.91
1:A:453:LEU:HA	1:A:456:LEU:CD1	2.00	0.91
1:E:1228:ASP:HB3	1:E:1230:LYS:HG2	1.52	0.91
1:G:359:TYR:HD1	1:G:360:ASP:H	0.91	0.91
1:G:359:TYR:CD1	1:G:360:ASP:N	2.36	0.91
1:G:431:LYS:HZ3	1:I:336:ASN:HB3	1.29	0.91
1:G:1185:PHE:O	1:G:1229:PHE:CZ	2.24	0.91
1:I:520:ALA:CB	1:I:648:GLU:HA	1.99	0.91
1:I:928:VAL:HG11	1:I:937:VAL:HG12	1.52	0.91
1:I:1228:ASP:HB3	1:I:1230:LYS:HG2	1.52	0.91
1:M:520:ALA:CB	1:M:648:GLU:HA	1.99	0.91
1:A:597:TRP:HD1	1:A:1243:ILE:O	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:928:VAL:HG11	1:G:937:VAL:HG12	1.52	0.91
1:I:597:TRP:HD1	1:I:1243:ILE:O	1.53	0.91
1:A:520:ALA:CB	1:A:648:GLU:HA	2.00	0.91
1:A:1149:GLY:CA	1:A:1180:VAL:HG22	1.96	0.91
1:I:127:VAL:H	3:I:1301:DTP:HN61	1.17	0.91
1:I:473:LEU:CD2	1:I:484:TYR:HE1	1.83	0.91
1:K:450:CYS:HA	1:K:453:LEU:HD23	1.52	0.91
1:M:473:LEU:CD1	1:M:480:CYS:HB2	2.00	0.91
1:C:146:GLU:CG	1:E:111:ARG:NH1	2.33	0.91
1:C:453:LEU:HA	1:C:456:LEU:CD1	2.00	0.91
1:G:158:CYS:HG	1:G:284:SER:HB2	1.24	0.91
1:C:1201:TRP:CE3	1:C:1210:SER:HB3	2.06	0.91
1:E:450:CYS:HA	1:E:453:LEU:HD23	1.52	0.91
1:I:359:TYR:CD1	1:I:360:ASP:N	2.36	0.91
1:I:595:LEU:HD11	1:I:1201:TRP:CH2	2.05	0.91
1:K:473:LEU:CD1	1:K:480:CYS:HB2	2.00	0.91
1:A:928:VAL:HG11	1:A:937:VAL:HG12	1.52	0.90
1:C:678:ASP:OD2	1:C:680:LYS:HE3	1.68	0.90
1:C:1185:PHE:O	1:C:1229:PHE:CZ	2.24	0.90
1:E:1187:PRO:HG3	1:E:1229:PHE:CG	2.06	0.90
1:K:1185:PHE:O	1:K:1229:PHE:CZ	2.24	0.90
1:M:1228:ASP:HB3	1:M:1230:LYS:HG2	1.52	0.90
1:A:595:LEU:HD11	1:A:1201:TRP:CH2	2.06	0.90
1:A:595:LEU:HD13	1:A:1244:LEU:CD2	2.01	0.90
1:E:1201:TRP:CE3	1:E:1210:SER:HB3	2.06	0.90
1:G:520:ALA:CB	1:G:648:GLU:HA	1.99	0.90
1:I:431:LYS:HZ3	1:K:336:ASN:HB3	1.28	0.90
1:I:473:LEU:CD1	1:I:480:CYS:HB2	2.00	0.90
1:K:146:GLU:HG3	1:M:111:ARG:HH12	1.32	0.90
1:K:431:LYS:HZ3	1:M:336:ASN:HB3	1.29	0.90
1:E:1185:PHE:O	1:E:1229:PHE:CZ	2.24	0.90
1:I:146:GLU:CG	1:K:111:ARG:NH1	2.33	0.90
1:I:450:CYS:HA	1:I:453:LEU:HD23	1.52	0.90
1:K:127:VAL:H	3:K:1301:DTP:HN61	1.17	0.90
1:A:473:LEU:CD1	1:A:480:CYS:HB2	2.00	0.90
1:G:473:LEU:CD1	1:G:480:CYS:HB2	2.00	0.90
1:G:595:LEU:HD13	1:G:1244:LEU:CD2	2.01	0.90
1:M:595:LEU:HD13	1:M:1244:LEU:CD2	2.01	0.90
1:M:1194:SER:CB	1:M:1202:TRP:HZ3	1.79	0.90
1:C:860:SER:O	1:C:861:GLN:HG3	1.72	0.90
1:C:1187:PRO:HG3	1:C:1229:PHE:CG	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:450:CYS:HA	1:G:453:LEU:HD23	1.52	0.90
1:I:543:ASN:OD1	1:I:574:SER:HB2	1.71	0.90
1:K:359:TYR:HD1	1:K:360:ASP:H	0.91	0.90
1:G:597:TRP:HD1	1:G:1243:ILE:O	1.53	0.90
1:I:595:LEU:HD13	1:I:1244:LEU:CD2	2.01	0.90
1:I:860:SER:O	1:I:861:GLN:HG3	1.72	0.90
1:I:1247:LEU:HD12	1:I:1248:GLU:H	1.37	0.90
1:K:595:LEU:HD13	1:K:1244:LEU:CD2	2.01	0.90
1:M:1201:TRP:CE3	1:M:1210:SER:HB3	2.07	0.90
1:A:127:VAL:CG2	1:A:294:ILE:HG13	2.02	0.90
1:E:595:LEU:HD13	1:E:1244:LEU:CD2	2.01	0.90
1:E:1149:GLY:CA	1:E:1180:VAL:HG22	1.96	0.90
1:I:158:CYS:HG	1:I:284:SER:HB2	1.00	0.90
1:K:127:VAL:CG2	1:K:294:ILE:HG13	2.02	0.90
1:K:1187:PRO:HG3	1:K:1229:PHE:CG	2.06	0.90
1:A:1187:PRO:HG3	1:A:1229:PHE:CG	2.06	0.90
1:C:158:CYS:HG	1:C:284:SER:HB2	1.10	0.90
1:C:597:TRP:HD1	1:C:1243:ILE:O	1.53	0.90
1:G:543:ASN:OD1	1:G:574:SER:HB2	1.71	0.90
1:K:928:VAL:HG22	1:K:1224:HIS:ND1	1.87	0.90
1:A:1201:TRP:CE3	1:A:1210:SER:HB3	2.06	0.90
1:C:127:VAL:H	3:C:1301:DTP:HN61	1.17	0.90
1:C:595:LEU:HD13	1:C:1244:LEU:CD2	2.01	0.90
1:M:860:SER:O	1:M:861:GLN:HG3	1.72	0.90
1:A:543:ASN:OD1	1:A:574:SER:HB2	1.71	0.90
1:C:473:LEU:CD1	1:C:480:CYS:HB2	2.00	0.90
1:E:597:TRP:HD1	1:E:1243:ILE:O	1.53	0.90
2:F:18:HIS:HE1	2:F:30:PRO:HD2	1.34	0.90
1:K:543:ASN:OD1	1:K:574:SER:HB2	1.71	0.90
1:K:860:SER:O	1:K:861:GLN:HG3	1.72	0.90
1:K:1247:LEU:HD12	1:K:1248:GLU:H	1.37	0.90
1:A:520:ALA:HB1	1:A:648:GLU:CA	2.03	0.89
1:A:860:SER:O	1:A:861:GLN:HG3	1.72	0.89
1:G:457:HIS:CD2	1:G:493:SER:HB3	2.07	0.89
1:G:1247:LEU:HD12	1:G:1248:GLU:H	1.37	0.89
1:I:127:VAL:CG2	1:I:294:ILE:HG13	2.02	0.89
1:K:453:LEU:CA	1:K:456:LEU:HD12	2.02	0.89
1:K:595:LEU:HD11	1:K:1201:TRP:CH2	2.05	0.89
1:M:473:LEU:CD2	1:M:484:TYR:HE1	1.83	0.89
1:M:1247:LEU:HD12	1:M:1248:GLU:H	1.37	0.89
1:C:333:ASP:HB2	1:C:334:PHE:CE1	2.07	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:453:LEU:CA	1:I:456:LEU:HD12	2.02	0.89
1:I:1201:TRP:CE3	1:I:1210:SER:HB3	2.06	0.89
1:M:127:VAL:CG2	1:M:294:ILE:HG13	2.02	0.89
1:A:127:VAL:H	3:A:1301:DTP:HN61	1.17	0.89
1:G:127:VAL:H	3:G:1301:DTP:HN61	1.17	0.89
1:I:457:HIS:CD2	1:I:493:SER:HB3	2.07	0.89
1:M:520:ALA:HB1	1:M:648:GLU:CA	2.03	0.89
1:A:500:LEU:HD22	1:A:532:ILE:HG12	1.55	0.89
1:C:1228:ASP:HB3	1:C:1230:LYS:HG2	1.52	0.89
1:E:473:LEU:CD1	1:E:480:CYS:HB2	2.00	0.89
1:G:1201:TRP:CE3	1:G:1210:SER:HB3	2.06	0.89
1:M:928:VAL:HG22	1:M:1224:HIS:ND1	1.87	0.89
1:A:1228:ASP:HB3	1:A:1230:LYS:HG2	1.52	0.89
1:E:333:ASP:HB2	1:E:334:PHE:CE1	2.07	0.89
1:E:1247:LEU:HD12	1:E:1248:GLU:H	1.37	0.89
1:G:860:SER:O	1:G:861:GLN:HG3	1.72	0.89
1:I:333:ASP:HB2	1:I:334:PHE:CE1	2.07	0.89
1:I:500:LEU:HD22	1:I:532:ILE:HG12	1.55	0.89
1:I:1187:PRO:HG3	1:I:1229:PHE:CG	2.06	0.89
1:M:595:LEU:HD11	1:M:1201:TRP:CH2	2.05	0.89
2:D:18:HIS:HE1	2:D:30:PRO:HD2	1.34	0.89
1:G:928:VAL:HG22	1:G:1224:HIS:ND1	1.87	0.89
1:I:316:GLU:O	1:I:318:LYS:HG2	1.73	0.89
1:I:924:GLN:HB3	1:I:1238:LEU:HG	1.54	0.89
1:M:453:LEU:CA	1:M:456:LEU:HD12	2.02	0.89
1:M:457:HIS:CD2	1:M:493:SER:HB3	2.07	0.89
1:A:333:ASP:HB2	1:A:334:PHE:CE1	2.07	0.89
1:C:928:VAL:HG22	1:C:1224:HIS:ND1	1.87	0.89
1:G:520:ALA:HB1	1:G:648:GLU:CA	2.02	0.89
1:G:902:ASP:CG	2:H:72:LYS:HZ2	1.76	0.89
1:K:520:ALA:HB1	1:K:648:GLU:CA	2.03	0.89
1:M:543:ASN:OD1	1:M:574:SER:HB2	1.71	0.89
1:A:457:HIS:CD2	1:A:493:SER:HB3	2.07	0.89
1:C:127:VAL:CG2	1:C:294:ILE:HG13	2.02	0.89
1:E:520:ALA:HB1	1:E:648:GLU:CA	2.02	0.89
1:E:595:LEU:CD1	1:E:1201:TRP:HZ2	1.78	0.89
1:I:359:TYR:HD1	1:I:360:ASP:H	0.91	0.89
1:I:595:LEU:CD1	1:I:1201:TRP:HZ2	1.78	0.89
1:K:500:LEU:HD22	1:K:532:ILE:HG12	1.55	0.89
1:A:614:HIS:HE1	1:A:640:GLN:CG	1.83	0.89
1:C:500:LEU:HD22	1:C:532:ILE:HG12	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:543:ASN:OD1	1:C:574:SER:HB2	1.71	0.89
1:E:158:CYS:HG	1:E:284:SER:HB2	0.89	0.89
1:E:316:GLU:O	1:E:318:LYS:HG2	1.73	0.89
1:E:473:LEU:CD2	1:E:484:TYR:HE1	1.83	0.89
1:E:595:LEU:HB3	1:E:1244:LEU:HB2	1.55	0.89
1:E:860:SER:O	1:E:861:GLN:HG3	1.72	0.89
1:E:881:HIS:HD1	1:E:901:SER:HB3	1.34	0.89
1:E:1185:PHE:HD1	1:E:1192:LEU:HG	1.36	0.89
1:G:558:GLN:O	1:G:560:PHE:N	2.06	0.89
1:I:1201:TRP:HE3	1:I:1210:SER:HB3	1.38	0.89
1:M:316:GLU:O	1:M:318:LYS:HG2	1.73	0.89
1:C:595:LEU:HB3	1:C:1244:LEU:HB2	1.55	0.89
1:E:543:ASN:OD1	1:E:574:SER:HB2	1.71	0.89
1:G:1201:TRP:HE3	1:G:1210:SER:HB3	1.38	0.89
1:I:928:VAL:HG22	1:I:1224:HIS:ND1	1.87	0.89
1:M:500:LEU:HD22	1:M:532:ILE:HG12	1.55	0.89
1:A:928:VAL:HG22	1:A:1224:HIS:ND1	1.87	0.88
1:A:1247:LEU:HD12	1:A:1248:GLU:H	1.37	0.88
1:C:359:TYR:HD1	1:C:360:ASP:H	0.92	0.88
1:K:316:GLU:O	1:K:318:LYS:HG2	1.73	0.88
1:K:1201:TRP:HE3	1:K:1210:SER:HB3	1.38	0.88
1:M:1187:PRO:HG3	1:M:1229:PHE:CG	2.06	0.88
1:A:316:GLU:O	1:A:318:LYS:HG2	1.73	0.88
1:C:316:GLU:O	1:C:318:LYS:HG2	1.73	0.88
1:E:639:LEU:O	1:E:653:ILE:HG22	1.73	0.88
1:K:333:ASP:HB2	1:K:334:PHE:CE1	2.07	0.88
1:K:558:GLN:O	1:K:560:PHE:N	2.06	0.88
1:K:1201:TRP:CE3	1:K:1210:SER:HB3	2.06	0.88
1:A:558:GLN:O	1:A:560:PHE:N	2.06	0.88
1:G:500:LEU:HD22	1:G:532:ILE:HG12	1.55	0.88
1:G:924:GLN:HB3	1:G:1238:LEU:HG	1.54	0.88
2:D:103:ASN:O	2:D:104:GLU:O	1.92	0.88
1:G:333:ASP:HB2	1:G:334:PHE:CE1	2.07	0.88
1:I:520:ALA:HB1	1:I:648:GLU:CA	2.03	0.88
1:K:862:TYR:CE2	1:K:881:HIS:N	2.42	0.88
1:K:924:GLN:HB3	1:K:1238:LEU:HG	1.54	0.88
1:G:127:VAL:CG2	1:G:294:ILE:HG13	2.02	0.88
2:J:103:ASN:O	2:J:104:GLU:O	1.92	0.88
1:K:595:LEU:HD11	1:K:1201:TRP:HZ2	0.89	0.88
1:M:881:HIS:HD1	1:M:901:SER:HB3	1.34	0.88
1:A:284:SER:O	1:A:438:HIS:CE1	2.27	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:ASN:HB3	1:M:431:LYS:HZ3	1.31	0.88
1:C:614:HIS:HE1	1:C:640:GLN:CG	1.83	0.88
1:C:1247:LEU:HD12	1:C:1248:GLU:H	1.37	0.88
1:A:453:LEU:CA	1:A:456:LEU:HD12	2.03	0.88
1:A:1240:ILE:HG23	1:A:1241:LEU:N	1.89	0.88
1:C:520:ALA:HB1	1:C:648:GLU:CA	2.03	0.88
1:E:457:HIS:CD2	1:E:493:SER:HB3	2.07	0.88
1:E:928:VAL:HG22	1:E:1224:HIS:ND1	1.87	0.88
2:H:103:ASN:O	2:H:104:GLU:O	1.92	0.88
1:M:333:ASP:HB2	1:M:334:PHE:CE1	2.07	0.88
1:A:595:LEU:HB3	1:A:1244:LEU:HB2	1.55	0.88
1:A:922:LEU:CD1	1:A:1241:LEU:HD23	2.04	0.88
1:C:1201:TRP:HE3	1:C:1210:SER:HB3	1.38	0.88
1:E:1201:TRP:HE3	1:E:1210:SER:HB3	1.38	0.88
1:M:127:VAL:H	3:M:1301:DTP:HN61	1.17	0.88
1:M:359:TYR:HD1	1:M:360:ASP:H	0.91	0.88
1:M:639:LEU:O	1:M:653:ILE:HG22	1.73	0.88
1:A:924:GLN:HB3	1:A:1238:LEU:HG	1.54	0.88
1:A:1187:PRO:HG3	1:A:1229:PHE:CD2	2.09	0.88
1:E:127:VAL:CG2	1:E:294:ILE:HG13	2.02	0.88
2:F:103:ASN:O	2:F:104:GLU:O	1.92	0.88
1:G:595:LEU:HB3	1:G:1244:LEU:HB2	1.55	0.88
1:I:922:LEU:CD1	1:I:1241:LEU:HD23	2.04	0.88
1:K:1185:PHE:HD1	1:K:1192:LEU:HG	1.36	0.88
1:M:284:SER:O	1:M:438:HIS:CE1	2.27	0.88
1:M:862:TYR:CE2	1:M:881:HIS:N	2.42	0.88
1:M:1201:TRP:HE3	1:M:1210:SER:HB3	1.38	0.88
1:A:639:LEU:O	1:A:653:ILE:HG22	1.73	0.88
1:C:284:SER:O	1:C:438:HIS:CE1	2.27	0.88
1:C:558:GLN:O	1:C:560:PHE:N	2.06	0.88
1:E:127:VAL:H	3:E:1301:DTP:HN61	1.17	0.88
1:E:500:LEU:HD22	1:E:532:ILE:HG12	1.55	0.88
1:E:922:LEU:CD1	1:E:1241:LEU:HD23	2.04	0.88
1:K:457:HIS:CD2	1:K:493:SER:HB3	2.07	0.88
1:K:639:LEU:O	1:K:653:ILE:HG22	1.73	0.88
1:M:558:GLN:O	1:M:560:PHE:N	2.06	0.88
1:M:1240:ILE:HG23	1:M:1241:LEU:N	1.89	0.88
1:C:457:HIS:CD2	1:C:493:SER:HB3	2.07	0.87
1:C:1185:PHE:HD1	1:C:1192:LEU:HG	1.36	0.87
1:G:1187:PRO:HG3	1:G:1229:PHE:CD2	2.09	0.87
1:K:716:LEU:HB3	1:K:728:TRP:HB2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:922:LEU:CD1	1:M:1241:LEU:HD23	2.04	0.87
1:M:1187:PRO:HG3	1:M:1229:PHE:CD2	2.09	0.87
1:A:431:LYS:HZ3	1:C:336:ASN:HB3	1.31	0.87
1:G:316:GLU:O	1:G:318:LYS:HG2	1.73	0.87
1:M:716:LEU:HB3	1:M:728:TRP:HB2	1.56	0.87
1:M:1185:PHE:HD1	1:M:1192:LEU:HG	1.36	0.87
2:B:103:ASN:O	2:B:104:GLU:O	1.92	0.87
1:C:473:LEU:CD2	1:C:484:TYR:HE1	1.83	0.87
1:G:862:TYR:CE2	1:G:881:HIS:N	2.42	0.87
1:G:394:LYS:CB	1:G:434:ARG:HB2	2.04	0.87
1:G:639:LEU:O	1:G:653:ILE:HG22	1.74	0.87
1:G:922:LEU:CD1	1:G:1241:LEU:HD23	2.04	0.87
1:K:559:PRO:O	1:K:561:PRO:N	2.08	0.87
1:K:595:LEU:HD22	1:K:1244:LEU:HD13	0.89	0.87
2:N:103:ASN:O	2:N:104:GLU:O	1.92	0.87
1:C:924:GLN:HB3	1:C:1238:LEU:HG	1.54	0.87
1:E:359:TYR:HD1	1:E:360:ASP:H	0.91	0.87
1:E:394:LYS:CB	1:E:434:ARG:HB2	2.04	0.87
1:E:453:LEU:CA	1:E:456:LEU:HD12	2.02	0.87
1:E:1164:LEU:H	1:E:1164:LEU:HD12	1.40	0.87
1:I:1187:PRO:HG3	1:I:1229:PHE:CD2	2.09	0.87
1:K:284:SER:O	1:K:438:HIS:CE1	2.27	0.87
2:L:103:ASN:O	2:L:104:GLU:O	1.92	0.87
1:M:595:LEU:HD11	1:M:1201:TRP:HZ2	0.89	0.87
1:A:1201:TRP:HE3	1:A:1210:SER:HB3	1.38	0.87
1:C:179:PRO:HD2	1:C:237:ARG:NH1	1.88	0.87
1:C:922:LEU:CD1	1:C:1241:LEU:HD23	2.04	0.87
1:E:558:GLN:O	1:E:560:PHE:N	2.06	0.87
1:E:924:GLN:HB3	1:E:1238:LEU:HG	1.54	0.87
1:G:453:LEU:CA	1:G:456:LEU:HD12	2.02	0.87
1:I:595:LEU:HD11	1:I:1201:TRP:HZ2	0.89	0.87
1:K:544:PHE:HE1	1:K:576:VAL:HG13	1.06	0.87
1:M:595:LEU:CD1	1:M:1201:TRP:HZ2	1.78	0.87
1:C:902:ASP:CG	2:D:72:LYS:HZ2	1.78	0.87
1:E:284:SER:O	1:E:438:HIS:CE1	2.27	0.87
1:G:544:PHE:HE1	1:G:576:VAL:HG13	1.06	0.87
1:I:639:LEU:O	1:I:653:ILE:HG22	1.74	0.87
1:K:1164:LEU:H	1:K:1164:LEU:HD12	1.40	0.87
1:M:579:GLN:NE2	1:M:579:GLN:O	2.08	0.87
1:A:394:LYS:CB	1:A:434:ARG:HB2	2.04	0.87
1:A:431:LYS:NZ	1:C:336:ASN:CB	2.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:559:PRO:O	1:A:561:PRO:N	2.08	0.87
1:A:716:LEU:HB3	1:A:728:TRP:HB2	1.56	0.87
1:A:922:LEU:HD12	1:A:1241:LEU:HD23	1.57	0.87
1:C:639:LEU:O	1:C:653:ILE:HG22	1.73	0.87
1:E:559:PRO:O	1:E:561:PRO:N	2.08	0.87
1:E:882:LEU:CB	1:E:1237:ASN:HD21	1.88	0.87
1:E:1187:PRO:HG3	1:E:1229:PHE:CD2	2.09	0.87
1:G:862:TYR:OH	1:G:881:HIS:HB2	1.75	0.87
1:G:882:LEU:CB	1:G:1237:ASN:HD21	1.88	0.87
1:I:862:TYR:OH	1:I:881:HIS:HB2	1.75	0.87
1:K:922:LEU:CD1	1:K:1241:LEU:HD23	2.04	0.87
1:K:1187:PRO:HG3	1:K:1229:PHE:CD2	2.09	0.87
1:M:595:LEU:HD22	1:M:1244:LEU:HD13	0.88	0.87
1:A:336:ASN:CB	1:M:431:LYS:NZ	2.38	0.86
1:A:579:GLN:O	1:A:579:GLN:NE2	2.08	0.86
1:C:559:PRO:O	1:C:561:PRO:N	2.08	0.86
1:E:922:LEU:HD12	1:E:1241:LEU:HD23	1.58	0.86
1:I:284:SER:O	1:I:438:HIS:CE1	2.27	0.86
1:I:558:GLN:O	1:I:560:PHE:N	2.06	0.86
1:I:716:LEU:HB3	1:I:728:TRP:HB2	1.56	0.86
1:I:862:TYR:CE2	1:I:881:HIS:N	2.42	0.86
1:M:924:GLN:HB3	1:M:1238:LEU:HG	1.54	0.86
1:A:294:ILE:HG21	1:A:324:VAL:CG1	2.06	0.86
1:A:862:TYR:CE2	1:A:881:HIS:N	2.42	0.86
1:C:1201:TRP:HB2	1:C:1210:SER:O	1.75	0.86
1:E:579:GLN:NE2	1:E:579:GLN:O	2.08	0.86
1:G:1240:ILE:HG23	1:G:1241:LEU:N	1.89	0.86
1:I:595:LEU:HD22	1:I:1244:LEU:HD13	0.89	0.86
1:M:595:LEU:HB3	1:M:1244:LEU:HB2	1.55	0.86
1:C:1164:LEU:H	1:C:1164:LEU:HD12	1.40	0.86
1:E:862:TYR:CE2	1:E:881:HIS:N	2.42	0.86
1:I:394:LYS:CB	1:I:434:ARG:HB2	2.04	0.86
1:M:394:LYS:CB	1:M:434:ARG:HB2	2.04	0.86
1:C:862:TYR:CE2	1:C:881:HIS:N	2.42	0.86
1:C:1187:PRO:HG3	1:C:1229:PHE:CD2	2.09	0.86
1:E:1201:TRP:HB2	1:E:1210:SER:O	1.75	0.86
1:G:284:SER:O	1:G:438:HIS:CE1	2.27	0.86
1:I:179:PRO:HD2	1:I:237:ARG:NH1	1.88	0.86
1:I:882:LEU:CB	1:I:1237:ASN:HD21	1.88	0.86
1:M:294:ILE:HG21	1:M:324:VAL:CG1	2.06	0.86
1:A:1201:TRP:HB2	1:A:1210:SER:O	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:394:LYS:CB	1:C:434:ARG:HB2	2.04	0.86
1:C:453:LEU:CA	1:C:456:LEU:HD12	2.03	0.86
1:C:882:LEU:CB	1:C:1237:ASN:HD21	1.88	0.86
1:C:1240:ILE:HG23	1:C:1241:LEU:N	1.89	0.86
1:K:579:GLN:NE2	1:K:579:GLN:O	2.08	0.86
1:K:1201:TRP:HB2	1:K:1210:SER:O	1.75	0.86
1:M:520:ALA:CB	1:M:648:GLU:CB	2.53	0.86
1:M:922:LEU:HD12	1:M:1241:LEU:HD23	1.58	0.86
1:A:597:TRP:HH2	1:A:603:ILE:CD1	1.89	0.86
1:C:294:ILE:HG21	1:C:324:VAL:CG1	2.06	0.86
1:C:500:LEU:HD23	1:C:533:LEU:HD13	1.57	0.86
1:G:597:TRP:HH2	1:G:603:ILE:CD1	1.89	0.86
1:G:922:LEU:HD12	1:G:1241:LEU:HD23	1.58	0.86
1:I:579:GLN:O	1:I:579:GLN:NE2	2.08	0.86
1:K:394:LYS:CB	1:K:434:ARG:HB2	2.04	0.86
1:M:1201:TRP:HB2	1:M:1210:SER:O	1.75	0.86
1:A:332:ARG:CB	1:A:332:ARG:HH11	1.88	0.86
1:A:520:ALA:CB	1:A:648:GLU:CB	2.53	0.86
1:A:595:LEU:HD22	1:A:1244:LEU:HD13	0.89	0.86
1:A:923:LYS:CB	1:A:940:VAL:CG2	2.54	0.86
1:G:332:ARG:CB	1:G:332:ARG:HH11	1.88	0.86
1:I:639:LEU:CD2	1:I:653:ILE:CD1	2.54	0.86
1:I:1164:LEU:H	1:I:1164:LEU:HD12	1.40	0.86
1:M:108:SER:O	1:M:111:ARG:HG3	1.76	0.86
1:M:639:LEU:CD2	1:M:653:ILE:CD1	2.54	0.86
1:C:579:GLN:NE2	1:C:579:GLN:O	2.08	0.86
1:G:559:PRO:O	1:G:561:PRO:N	2.08	0.86
1:G:579:GLN:O	1:G:579:GLN:NE2	2.08	0.86
1:I:333:ASP:HB2	1:I:334:PHE:CD1	2.11	0.86
1:I:505:PHE:HZ	1:I:540:VAL:HG11	1.40	0.86
1:I:544:PHE:HE1	1:I:576:VAL:HG13	1.06	0.86
1:K:597:TRP:HH2	1:K:603:ILE:CD1	1.89	0.86
1:K:882:LEU:CB	1:K:1237:ASN:HD21	1.88	0.86
1:K:1146:ASP:O	1:K:1180:VAL:CG2	2.24	0.86
1:M:559:PRO:O	1:M:561:PRO:N	2.08	0.86
1:A:882:LEU:CB	1:A:1237:ASN:HD21	1.88	0.86
1:C:595:LEU:HD22	1:C:1244:LEU:HD13	0.88	0.86
1:E:595:LEU:HD22	1:E:1244:LEU:HD13	0.88	0.86
1:M:1146:ASP:O	1:M:1180:VAL:CG2	2.24	0.86
1:A:359:TYR:HD1	1:A:360:ASP:H	0.91	0.86
1:A:500:LEU:HD23	1:A:533:LEU:HD13	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:108:SER:O	1:C:111:ARG:HG3	1.76	0.86
1:C:505:PHE:HZ	1:C:540:VAL:HG11	1.40	0.86
1:C:520:ALA:CB	1:C:648:GLU:CB	2.53	0.86
1:C:922:LEU:HD12	1:C:1241:LEU:HD23	1.58	0.86
1:G:179:PRO:HD2	1:G:237:ARG:NH1	1.88	0.86
1:G:1164:LEU:HD12	1:G:1164:LEU:H	1.40	0.86
1:I:108:SER:O	1:I:111:ARG:HG3	1.76	0.86
1:I:500:LEU:HD23	1:I:533:LEU:HD13	1.57	0.86
1:K:294:ILE:HG21	1:K:324:VAL:CG1	2.06	0.86
1:K:333:ASP:HB2	1:K:334:PHE:CD1	2.11	0.86
1:M:639:LEU:HG	1:M:653:ILE:HG21	1.58	0.86
1:M:882:LEU:CB	1:M:1237:ASN:HD21	1.88	0.86
1:A:639:LEU:HG	1:A:653:ILE:HG21	1.58	0.85
1:A:1164:LEU:H	1:A:1164:LEU:HD12	1.40	0.85
1:C:862:TYR:OH	1:C:881:HIS:HB2	1.75	0.85
1:G:333:ASP:HB2	1:G:334:PHE:CD1	2.11	0.85
1:G:431:LYS:NZ	1:I:336:ASN:CB	2.38	0.85
1:G:1185:PHE:HD1	1:G:1192:LEU:HG	1.36	0.85
1:I:431:LYS:NZ	1:K:336:ASN:CB	2.38	0.85
1:I:1201:TRP:HB2	1:I:1210:SER:O	1.75	0.85
1:K:862:TYR:OH	1:K:881:HIS:HB2	1.75	0.85
1:M:171:HIS:NE2	1:M:175:GLU:HG3	1.91	0.85
1:A:1149:GLY:CA	1:A:1180:VAL:CG2	2.54	0.85
1:C:431:LYS:NZ	1:E:336:ASN:CB	2.38	0.85
1:E:294:ILE:HG21	1:E:324:VAL:CG1	2.06	0.85
1:E:403:LEU:HD12	1:E:403:LEU:O	1.76	0.85
1:G:403:LEU:HD12	1:G:403:LEU:O	1.77	0.85
1:I:559:PRO:O	1:I:561:PRO:N	2.08	0.85
1:I:595:LEU:HB3	1:I:1244:LEU:HB2	1.55	0.85
1:K:500:LEU:HD23	1:K:533:LEU:HD13	1.57	0.85
1:M:902:ASP:CG	2:N:72:LYS:HZ2	1.78	0.85
1:A:333:ASP:HB2	1:A:334:PHE:CD1	2.11	0.85
1:C:332:ARG:CB	1:C:332:ARG:HH11	1.88	0.85
1:E:431:LYS:NZ	1:G:336:ASN:CB	2.38	0.85
1:E:500:LEU:HD23	1:E:533:LEU:HD13	1.57	0.85
1:G:1201:TRP:HB2	1:G:1210:SER:O	1.75	0.85
1:K:171:HIS:NE2	1:K:175:GLU:HG3	1.91	0.85
1:K:595:LEU:HB3	1:K:1244:LEU:HB2	1.55	0.85
1:K:639:LEU:HG	1:K:653:ILE:HG21	1.58	0.85
1:A:1146:ASP:O	1:A:1180:VAL:CG2	2.24	0.85
1:A:1185:PHE:HD1	1:A:1192:LEU:HG	1.36	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:333:ASP:HB2	1:C:334:PHE:CD1	2.11	0.85
1:E:597:TRP:HH2	1:E:603:ILE:CD1	1.89	0.85
1:G:595:LEU:HD22	1:G:1244:LEU:HD13	0.89	0.85
1:I:477:GLN:HA	1:I:477:GLN:NE2	1.90	0.85
2:J:17:CYS:SG	5:J:201:HEM:C3C	2.70	0.85
1:K:922:LEU:HD12	1:K:1241:LEU:HD23	1.58	0.85
1:K:1240:ILE:HG23	1:K:1241:LEU:N	1.89	0.85
1:A:505:PHE:HZ	1:A:540:VAL:HG11	1.40	0.85
1:C:1149:GLY:CA	1:C:1180:VAL:CG2	2.54	0.85
1:E:862:TYR:OH	1:E:881:HIS:HB2	1.75	0.85
1:I:294:ILE:HG21	1:I:324:VAL:CG1	2.06	0.85
1:I:922:LEU:HD12	1:I:1241:LEU:HD23	1.58	0.85
1:K:431:LYS:NZ	1:M:336:ASN:CB	2.38	0.85
1:K:639:LEU:CD2	1:K:653:ILE:CD1	2.54	0.85
1:A:108:SER:O	1:A:111:ARG:HG3	1.76	0.85
1:A:862:TYR:OH	1:A:881:HIS:HB2	1.75	0.85
1:G:1146:ASP:O	1:G:1180:VAL:CG2	2.24	0.85
1:I:403:LEU:HD12	1:I:403:LEU:O	1.77	0.85
1:I:1176:HIS:HB2	1:I:1218:THR:HB	1.59	0.85
1:K:108:SER:O	1:K:111:ARG:HG3	1.76	0.85
1:K:1176:HIS:HB2	1:K:1218:THR:HB	1.59	0.85
2:L:17:CYS:SG	5:L:201:HEM:C3C	2.70	0.85
1:M:332:ARG:CB	1:M:332:ARG:HH11	1.88	0.85
1:A:595:LEU:HD11	1:A:1201:TRP:HZ2	0.89	0.85
1:C:403:LEU:HD12	1:C:403:LEU:O	1.77	0.85
1:C:639:LEU:HG	1:C:653:ILE:HG21	1.58	0.85
1:E:716:LEU:HB3	1:E:728:TRP:HB2	1.56	0.85
1:G:294:ILE:HG21	1:G:324:VAL:CG1	2.06	0.85
1:G:1176:HIS:HB2	1:G:1218:THR:HB	1.59	0.85
1:I:1146:ASP:O	1:I:1180:VAL:CG2	2.24	0.85
1:M:597:TRP:HH2	1:M:603:ILE:CD1	1.89	0.85
1:M:1176:HIS:HB2	1:M:1218:THR:HB	1.59	0.85
1:A:171:HIS:NE2	1:A:175:GLU:HG3	1.91	0.85
1:C:544:PHE:HE1	1:C:576:VAL:HG13	1.06	0.85
1:C:1146:ASP:O	1:C:1180:VAL:CG2	2.24	0.85
1:E:332:ARG:CB	1:E:332:ARG:HH11	1.89	0.85
1:G:473:LEU:CD2	1:G:484:TYR:HE1	1.83	0.85
1:I:332:ARG:CB	1:I:332:ARG:HH11	1.88	0.85
1:M:333:ASP:HB2	1:M:334:PHE:CD1	2.11	0.85
1:E:1146:ASP:O	1:E:1180:VAL:CG2	2.24	0.85
1:G:500:LEU:HD23	1:G:533:LEU:HD13	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:171:HIS:NE2	1:I:175:GLU:HG3	1.91	0.85
1:C:477:GLN:HA	1:C:477:GLN:NE2	1.90	0.85
1:C:597:TRP:HH2	1:C:603:ILE:CD1	1.89	0.85
1:C:716:LEU:HB3	1:C:728:TRP:HB2	1.56	0.85
2:D:17:CYS:SG	5:D:201:HEM:C3C	2.70	0.85
1:E:108:SER:O	1:E:111:ARG:HG3	1.76	0.85
1:E:171:HIS:NE2	1:E:175:GLU:HG3	1.91	0.85
1:G:595:LEU:HD11	1:G:1201:TRP:HZ2	0.89	0.85
1:G:639:LEU:CD2	1:G:653:ILE:CD1	2.54	0.85
1:I:639:LEU:HG	1:I:653:ILE:HG21	1.59	0.85
1:K:332:ARG:CB	1:K:332:ARG:HH11	1.88	0.85
1:M:862:TYR:OH	1:M:881:HIS:HB2	1.75	0.85
1:C:639:LEU:CD2	1:C:653:ILE:CD1	2.54	0.84
1:I:614:HIS:CE1	1:I:640:GLN:HG3	2.12	0.84
1:I:1240:ILE:HG23	1:I:1241:LEU:N	1.89	0.84
1:M:1149:GLY:CA	1:M:1180:VAL:CG2	2.54	0.84
1:A:544:PHE:HE1	1:A:576:VAL:HG13	1.06	0.84
1:A:639:LEU:CD2	1:A:653:ILE:CD1	2.54	0.84
1:E:333:ASP:HB2	1:E:334:PHE:CD1	2.11	0.84
1:E:477:GLN:HA	1:E:477:GLN:NE2	1.90	0.84
1:E:614:HIS:HE1	1:E:640:GLN:CG	1.83	0.84
1:I:597:TRP:HH2	1:I:603:ILE:CD1	1.89	0.84
1:M:505:PHE:HZ	1:M:540:VAL:HG11	1.40	0.84
2:N:17:CYS:SG	5:N:201:HEM:C3C	2.70	0.84
1:G:1217:GLY:O	1:G:1218:THR:HG23	1.78	0.84
2:B:17:CYS:SG	5:B:201:HEM:C3C	2.70	0.84
1:E:505:PHE:HZ	1:E:540:VAL:HG11	1.40	0.84
1:K:614:HIS:CE1	1:K:640:GLN:HG3	2.12	0.84
1:M:500:LEU:HD23	1:M:533:LEU:HD13	1.57	0.84
1:E:1176:HIS:HB2	1:E:1218:THR:HB	1.59	0.84
1:A:1176:HIS:HB2	1:A:1218:THR:HB	1.59	0.84
1:C:171:HIS:NE2	1:C:175:GLU:HG3	1.91	0.84
1:C:923:LYS:CB	1:C:940:VAL:CG2	2.54	0.84
1:E:639:LEU:CD2	1:E:653:ILE:CD1	2.54	0.84
1:E:639:LEU:HG	1:E:653:ILE:HG21	1.58	0.84
1:E:1149:GLY:CA	1:E:1180:VAL:CG2	2.54	0.84
1:M:1164:LEU:H	1:M:1164:LEU:HD12	1.40	0.84
1:A:1217:GLY:O	1:A:1218:THR:HG23	1.78	0.84
1:E:1217:GLY:O	1:E:1218:THR:HG23	1.78	0.84
2:H:17:CYS:SG	5:H:201:HEM:C3C	2.70	0.84
1:M:544:PHE:HE1	1:M:576:VAL:HG13	1.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:322:LEU:O	1:C:322:LEU:HD22	1.77	0.84
1:C:1217:GLY:O	1:C:1218:THR:HG23	1.78	0.84
2:F:17:CYS:SG	5:F:201:HEM:C3C	2.70	0.84
1:I:322:LEU:O	1:I:322:LEU:HD22	1.77	0.84
1:K:403:LEU:HD12	1:K:403:LEU:O	1.77	0.84
1:A:403:LEU:HD12	1:A:403:LEU:O	1.76	0.84
1:E:284:SER:O	1:E:438:HIS:HE1	1.61	0.84
1:E:322:LEU:O	1:E:322:LEU:HD22	1.77	0.84
1:G:284:SER:O	1:G:438:HIS:HE1	1.61	0.84
1:G:614:HIS:CE1	1:G:640:GLN:HG3	2.12	0.84
1:G:639:LEU:HG	1:G:653:ILE:HG21	1.59	0.84
1:G:716:LEU:HB3	1:G:728:TRP:HB2	1.56	0.84
1:I:122:ARG:HH21	1:I:126:PHE:HZ	1.24	0.84
1:I:1217:GLY:O	1:I:1218:THR:HG23	1.78	0.84
2:D:17:CYS:HG	5:D:201:HEM:CAC	1.82	0.84
1:K:122:ARG:HH21	1:K:126:PHE:HZ	1.23	0.84
1:A:364:LEU:HD13	1:A:364:LEU:O	1.78	0.83
1:C:284:SER:O	1:C:438:HIS:HE1	1.61	0.83
1:C:364:LEU:O	1:C:364:LEU:HD13	1.78	0.83
1:G:171:HIS:NE2	1:G:175:GLU:HG3	1.91	0.83
1:M:525:GLU:O	1:M:528:GLU:CG	2.26	0.83
1:E:544:PHE:HE1	1:E:576:VAL:HG13	1.06	0.83
1:G:108:SER:O	1:G:111:ARG:HG3	1.76	0.83
1:K:322:LEU:O	1:K:322:LEU:HD22	1.77	0.83
1:K:477:GLN:HA	1:K:477:GLN:NE2	1.90	0.83
1:K:883:SER:OG	1:K:902:ASP:CB	2.26	0.83
1:M:883:SER:OG	1:M:902:ASP:CB	2.26	0.83
1:M:1217:GLY:O	1:M:1218:THR:HG23	1.78	0.83
1:A:322:LEU:O	1:A:322:LEU:HD22	1.77	0.83
1:C:500:LEU:CD2	1:C:532:ILE:HG12	2.09	0.83
1:G:505:PHE:HZ	1:G:540:VAL:HG11	1.40	0.83
2:J:33:HIS:HE1	2:J:104:GLU:O	1.62	0.83
2:L:33:HIS:HE1	2:L:104:GLU:O	1.62	0.83
1:A:477:GLN:HA	1:A:477:GLN:NE2	1.90	0.83
1:A:614:HIS:CE1	1:A:640:GLN:HG3	2.12	0.83
1:C:595:LEU:HD11	1:C:1201:TRP:HZ2	0.89	0.83
1:C:604:THR:H	1:C:1240:ILE:HD13	1.43	0.83
1:C:614:HIS:CE1	1:C:640:GLN:HG3	2.12	0.83
1:E:500:LEU:CD2	1:E:532:ILE:HG12	2.09	0.83
1:E:1240:ILE:HG23	1:E:1241:LEU:N	1.89	0.83
1:I:284:SER:O	1:I:438:HIS:HE1	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:614:HIS:CE1	1:M:640:GLN:HG3	2.12	0.83
1:A:525:GLU:O	1:A:528:GLU:CG	2.26	0.83
1:C:1176:HIS:HB2	1:C:1218:THR:HB	1.59	0.83
1:I:923:LYS:CB	1:I:940:VAL:CG2	2.54	0.83
1:A:453:LEU:HD12	1:A:454:GLN:N	1.94	0.83
2:B:33:HIS:HE1	2:B:104:GLU:O	1.61	0.83
1:E:595:LEU:HD11	1:E:1201:TRP:HZ2	0.89	0.83
1:E:883:SER:OG	1:E:902:ASP:CB	2.26	0.83
1:G:520:ALA:CB	1:G:648:GLU:CB	2.53	0.83
1:G:1149:GLY:CA	1:G:1180:VAL:CG2	2.54	0.83
1:E:364:LEU:O	1:E:364:LEU:HD13	1.78	0.83
1:G:364:LEU:O	1:G:364:LEU:HD13	1.78	0.83
1:G:477:GLN:HA	1:G:477:GLN:NE2	1.90	0.83
1:G:604:THR:H	1:G:1240:ILE:HD13	1.43	0.83
2:H:33:HIS:HE1	2:H:104:GLU:O	1.61	0.83
1:I:565:GLN:NE2	1:I:568:LEU:HD11	1.94	0.83
1:I:603:ILE:HD13	1:I:1242:TYR:HE1	1.44	0.83
1:K:603:ILE:HD13	1:K:1242:TYR:HE1	1.44	0.83
1:M:322:LEU:O	1:M:322:LEU:HD22	1.77	0.83
1:M:364:LEU:O	1:M:364:LEU:HD13	1.78	0.83
1:M:1220:LEU:HD23	1:M:1234:THR:CB	2.08	0.83
1:A:284:SER:O	1:A:438:HIS:HE1	1.61	0.83
1:A:473:LEU:CD2	1:A:484:TYR:HE1	1.83	0.83
1:A:500:LEU:CD2	1:A:532:ILE:HG12	2.09	0.83
1:C:999:ARG:NH2	1:C:1000:PHE:O	2.12	0.83
1:E:525:GLU:O	1:E:528:GLU:CG	2.26	0.83
1:E:614:HIS:CE1	1:E:640:GLN:HG3	2.12	0.83
1:G:500:LEU:CD2	1:G:532:ILE:HG12	2.09	0.83
1:I:500:LEU:CD2	1:I:532:ILE:HG12	2.09	0.83
1:I:591:GLY:O	1:I:592:MET:HB2	1.79	0.83
1:I:604:THR:H	1:I:1240:ILE:HD13	1.44	0.83
1:I:1185:PHE:HD1	1:I:1192:LEU:HG	1.36	0.83
1:K:505:PHE:HZ	1:K:540:VAL:HG11	1.40	0.83
1:K:1149:GLY:CA	1:K:1180:VAL:CG2	2.54	0.83
1:M:403:LEU:O	1:M:403:LEU:HD12	1.77	0.83
1:C:565:GLN:NE2	1:C:568:LEU:HD11	1.94	0.83
1:C:595:LEU:CD1	1:C:1201:TRP:HZ2	1.78	0.83
1:C:1220:LEU:HD23	1:C:1234:THR:CB	2.08	0.83
2:D:33:HIS:HE1	2:D:104:GLU:O	1.61	0.83
1:G:322:LEU:O	1:G:322:LEU:HD22	1.77	0.83
1:G:636:ASP:O	1:G:637:LYS:HD2	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:636:ASP:O	1:I:637:LYS:HD2	1.79	0.83
1:K:1217:GLY:O	1:K:1218:THR:HG23	1.78	0.83
1:A:603:ILE:HD13	1:A:1242:TYR:HE1	1.44	0.83
1:A:948:LEU:HD12	1:A:957:ASP:CG	1.99	0.83
1:E:565:GLN:NE2	1:E:568:LEU:HD11	1.94	0.83
1:E:636:ASP:O	1:E:637:LYS:HD2	1.79	0.83
1:C:453:LEU:HD12	1:C:454:GLN:N	1.94	0.82
1:C:591:GLY:O	1:C:592:MET:HB2	1.79	0.82
1:C:603:ILE:HD13	1:C:1242:TYR:HE1	1.44	0.82
1:G:122:ARG:HH21	1:G:126:PHE:HZ	1.23	0.82
1:K:284:SER:O	1:K:438:HIS:HE1	1.61	0.82
1:K:636:ASP:O	1:K:637:LYS:HD2	1.79	0.82
1:M:565:GLN:NE2	1:M:568:LEU:HD11	1.94	0.82
1:M:999:ARG:NH2	1:M:1000:PHE:O	2.12	0.82
1:C:883:SER:OG	1:C:902:ASP:CB	2.26	0.82
1:E:1220:LEU:HD23	1:E:1234:THR:CB	2.08	0.82
1:I:525:GLU:O	1:I:528:GLU:CG	2.26	0.82
1:I:1220:LEU:HD23	1:I:1234:THR:CB	2.08	0.82
1:K:565:GLN:NE2	1:K:568:LEU:HD11	1.94	0.82
1:K:999:ARG:NH2	1:K:1000:PHE:O	2.12	0.82
1:M:500:LEU:CD2	1:M:532:ILE:HG12	2.08	0.82
1:C:948:LEU:HD12	1:C:957:ASP:CG	1.99	0.82
1:E:505:PHE:CZ	1:E:540:VAL:HG11	2.14	0.82
1:G:505:PHE:CZ	1:G:540:VAL:HG11	2.14	0.82
1:G:525:GLU:O	1:G:528:GLU:CG	2.26	0.82
1:G:883:SER:OG	1:G:902:ASP:CB	2.26	0.82
1:G:948:LEU:HD12	1:G:957:ASP:CG	2.00	0.82
1:I:883:SER:OG	1:I:902:ASP:CB	2.26	0.82
1:K:525:GLU:O	1:K:528:GLU:CG	2.26	0.82
1:K:862:TYR:HE2	1:K:881:HIS:H	1.28	0.82
1:K:948:LEU:HD12	1:K:957:ASP:CG	2.00	0.82
1:M:603:ILE:HD13	1:M:1242:TYR:HE1	1.44	0.82
1:C:525:GLU:O	1:C:528:GLU:CG	2.26	0.82
1:I:1149:GLY:CA	1:I:1180:VAL:CG2	2.54	0.82
1:K:298:PHE:CD2	1:K:328:GLY:HA3	2.15	0.82
1:K:364:LEU:O	1:K:364:LEU:HD13	1.78	0.82
1:A:565:GLN:NE2	1:A:568:LEU:HD11	1.94	0.82
1:C:298:PHE:CD2	1:C:328:GLY:HA3	2.15	0.82
1:E:122:ARG:HH21	1:E:126:PHE:HZ	1.23	0.82
1:E:591:GLY:O	1:E:592:MET:HB2	1.79	0.82
1:I:948:LEU:HD12	1:I:957:ASP:CG	1.99	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:284:SER:O	1:M:438:HIS:HE1	1.61	0.82
1:A:883:SER:OG	1:A:902:ASP:CB	2.26	0.82
1:C:505:PHE:CZ	1:C:540:VAL:HG11	2.14	0.82
1:E:298:PHE:CD2	1:E:328:GLY:HA3	2.15	0.82
1:E:1179:TRP:HA	1:E:1179:TRP:CE3	2.15	0.82
2:F:33:HIS:HE1	2:F:104:GLU:O	1.61	0.82
1:G:591:GLY:O	1:G:592:MET:HB2	1.79	0.82
1:I:999:ARG:NH2	1:I:1000:PHE:O	2.12	0.82
1:M:948:LEU:HD12	1:M:957:ASP:CG	2.00	0.82
1:A:1220:LEU:HD23	1:A:1234:THR:CB	2.08	0.82
1:G:603:ILE:HD13	1:G:1242:TYR:HE1	1.44	0.82
1:G:1220:LEU:HD23	1:G:1234:THR:CB	2.08	0.82
1:I:520:ALA:CB	1:I:648:GLU:CB	2.53	0.82
1:K:1220:LEU:HD23	1:K:1234:THR:CB	2.08	0.82
1:M:604:THR:H	1:M:1240:ILE:HD13	1.43	0.82
1:M:1179:TRP:HA	1:M:1179:TRP:CE3	2.15	0.82
1:A:591:GLY:O	1:A:592:MET:HB2	1.79	0.82
1:A:999:ARG:NH2	1:A:1000:PHE:O	2.12	0.82
1:E:923:LYS:CB	1:E:940:VAL:CG2	2.54	0.82
1:K:500:LEU:CD2	1:K:532:ILE:HG12	2.09	0.82
1:K:592:MET:HB3	1:K:594:TYR:CE1	2.15	0.82
1:M:477:GLN:HA	1:M:477:GLN:NE2	1.90	0.82
1:A:298:PHE:CD2	1:A:328:GLY:HA3	2.15	0.82
1:A:505:PHE:CZ	1:A:540:VAL:HG11	2.14	0.82
1:C:636:ASP:O	1:C:637:LYS:HD2	1.79	0.82
1:G:453:LEU:HD12	1:G:454:GLN:N	1.94	0.82
1:G:999:ARG:NH2	1:G:1000:PHE:O	2.12	0.82
1:I:453:LEU:HD12	1:I:454:GLN:N	1.94	0.82
1:I:505:PHE:CZ	1:I:540:VAL:HG11	2.14	0.82
1:K:1179:TRP:CE3	1:K:1179:TRP:HA	2.15	0.82
1:M:592:MET:HB3	1:M:594:TYR:CE1	2.15	0.82
1:M:923:LYS:CB	1:M:940:VAL:CG2	2.54	0.82
1:M:1220:LEU:HG	1:M:1236:ASP:HB3	1.62	0.82
1:E:453:LEU:HD12	1:E:454:GLN:N	1.94	0.82
1:G:565:GLN:NE2	1:G:568:LEU:HD11	1.94	0.82
1:I:298:PHE:CD2	1:I:328:GLY:HA3	2.15	0.82
1:K:453:LEU:HD12	1:K:454:GLN:N	1.94	0.82
1:K:591:GLY:O	1:K:592:MET:HB2	1.79	0.82
1:M:505:PHE:CZ	1:M:540:VAL:HG11	2.14	0.82
1:M:1181:THR:HG21	1:M:1221:LYS:HA	1.61	0.82
1:G:923:LYS:CB	1:G:940:VAL:CG2	2.54	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1220:LEU:HG	1:K:1236:ASP:HB3	1.62	0.81
1:M:374:MET:HA	1:M:374:MET:CE	2.10	0.81
1:M:453:LEU:HD12	1:M:454:GLN:N	1.94	0.81
1:M:1232:TYR:OH	1:M:1234:THR:HB	1.80	0.81
2:N:33:HIS:HE1	2:N:104:GLU:O	1.62	0.81
1:A:1232:TYR:OH	1:A:1234:THR:HB	1.80	0.81
1:C:174:LEU:HD23	1:C:175:GLU:N	1.95	0.81
1:I:364:LEU:HD13	1:I:364:LEU:O	1.78	0.81
1:M:505:PHE:HE2	1:M:575:GLU:OE1	1.63	0.81
1:A:505:PHE:HE2	1:A:575:GLU:OE1	1.63	0.81
1:A:592:MET:HB3	1:A:594:TYR:CE1	2.15	0.81
1:A:1181:THR:HG21	1:A:1221:LYS:HA	1.61	0.81
1:C:122:ARG:CZ	1:C:126:PHE:CZ	2.64	0.81
1:C:505:PHE:HE2	1:C:575:GLU:OE1	1.63	0.81
1:C:592:MET:HB3	1:C:594:TYR:CE1	2.15	0.81
1:C:729:ASP:HB2	1:C:736:ARG:HB2	1.62	0.81
1:E:374:MET:HA	1:E:374:MET:CE	2.10	0.81
1:E:520:ALA:CB	1:E:648:GLU:CB	2.53	0.81
1:E:729:ASP:HB2	1:E:736:ARG:HB2	1.62	0.81
1:G:374:MET:HA	1:G:374:MET:CE	2.10	0.81
1:K:505:PHE:CZ	1:K:540:VAL:HG11	2.14	0.81
1:K:923:LYS:CB	1:K:940:VAL:CG2	2.54	0.81
1:K:1181:THR:HG21	1:K:1221:LYS:HA	1.61	0.81
1:K:1232:TYR:OH	1:K:1234:THR:HB	1.80	0.81
1:M:298:PHE:CD2	1:M:328:GLY:HA3	2.15	0.81
5:N:201:HEM:HBC2	5:N:201:HEM:CMC	2.11	0.81
1:A:729:ASP:HB2	1:A:736:ARG:HB2	1.62	0.81
1:A:1199:ILE:CD1	1:A:1232:TYR:HE2	1.94	0.81
1:E:174:LEU:HD23	1:E:175:GLU:N	1.95	0.81
1:E:592:MET:HB3	1:E:594:TYR:CE1	2.15	0.81
1:E:999:ARG:NH2	1:E:1000:PHE:O	2.12	0.81
1:I:500:LEU:HD23	1:I:533:LEU:CD1	2.10	0.81
1:I:1232:TYR:OH	1:I:1234:THR:HB	1.80	0.81
1:M:636:ASP:O	1:M:637:LYS:HD2	1.79	0.81
1:A:122:ARG:CZ	1:A:126:PHE:CZ	2.64	0.81
1:A:174:LEU:HD23	1:A:175:GLU:N	1.95	0.81
1:E:505:PHE:HE2	1:E:575:GLU:OE1	1.63	0.81
1:G:361:TYR:HE2	1:G:370:ILE:HG13	1.46	0.81
1:K:505:PHE:HE2	1:K:575:GLU:OE1	1.63	0.81
1:A:657:GLU:HG2	1:A:680:LYS:HZ2	1.44	0.81
1:C:595:LEU:CD1	1:C:1244:LEU:HD22	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:948:LEU:HD12	1:E:957:ASP:CG	1.99	0.81
1:G:298:PHE:CD2	1:G:328:GLY:HA3	2.15	0.81
1:G:595:LEU:CD1	1:G:1201:TRP:HZ2	1.78	0.81
1:K:122:ARG:CZ	1:K:126:PHE:CZ	2.64	0.81
1:K:374:MET:HA	1:K:374:MET:CE	2.10	0.81
1:M:500:LEU:HD23	1:M:533:LEU:CD1	2.10	0.81
1:M:658:ASP:HB2	1:M:678:ASP:HB2	1.63	0.81
1:A:159:GLY:HA2	3:A:1301:DTP:O1A	1.81	0.81
1:A:658:ASP:HB2	1:A:678:ASP:HB2	1.63	0.81
1:A:1233:VAL:CG1	1:A:1243:ILE:HG12	2.10	0.81
1:C:860:SER:O	1:C:861:GLN:CG	2.29	0.81
5:D:201:HEM:HBC2	5:D:201:HEM:CMC	2.11	0.81
1:E:860:SER:O	1:E:861:GLN:CG	2.29	0.81
1:G:592:MET:HB3	1:G:594:TYR:CE1	2.15	0.81
1:G:1179:TRP:HA	1:G:1179:TRP:CE3	2.15	0.81
5:J:201:HEM:HBC2	5:J:201:HEM:CMC	2.11	0.81
1:M:361:TYR:HE2	1:M:370:ILE:HG13	1.46	0.81
1:M:1233:VAL:CG1	1:M:1243:ILE:HG12	2.10	0.81
1:C:1199:ILE:CD1	1:C:1232:TYR:HE2	1.94	0.81
1:E:604:THR:H	1:E:1240:ILE:HD13	1.43	0.81
1:E:1199:ILE:CD1	1:E:1232:TYR:HE2	1.94	0.81
1:G:174:LEU:HD23	1:G:175:GLU:N	1.95	0.81
1:A:361:TYR:CE2	1:A:370:ILE:HG13	2.16	0.81
1:A:636:ASP:O	1:A:637:LYS:HD2	1.79	0.81
1:C:1179:TRP:CE3	1:C:1179:TRP:HA	2.15	0.81
1:E:122:ARG:CZ	1:E:126:PHE:CZ	2.64	0.81
1:E:159:GLY:HA2	3:E:1301:DTP:O1A	1.81	0.81
1:E:595:LEU:CD1	1:E:1244:LEU:HD22	2.10	0.81
1:I:122:ARG:CZ	1:I:126:PHE:CZ	2.64	0.81
1:I:159:GLY:HA2	3:I:1301:DTP:O1A	1.81	0.81
1:I:374:MET:HA	1:I:374:MET:CE	2.10	0.81
1:I:592:MET:HB3	1:I:594:TYR:CE1	2.15	0.81
1:K:158:CYS:HG	1:K:284:SER:CB	1.82	0.81
1:M:174:LEU:HD23	1:M:175:GLU:N	1.95	0.81
1:M:591:GLY:O	1:M:592:MET:HB2	1.79	0.81
1:A:374:MET:HA	1:A:374:MET:CE	2.10	0.81
1:I:361:TYR:CE2	1:I:370:ILE:HG13	2.16	0.81
1:M:146:GLU:OE1	1:M:147:PRO:CD	2.29	0.81
1:M:729:ASP:HB2	1:M:736:ARG:HB2	1.62	0.81
1:A:639:LEU:H	1:A:653:ILE:HG21	1.47	0.80
1:C:1232:TYR:OH	1:C:1234:THR:HB	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:603:ILE:HD13	1:E:1242:TYR:HE1	1.44	0.80
1:G:883:SER:HB2	1:G:902:ASP:HB3	1.63	0.80
1:I:1181:THR:HG21	1:I:1221:LYS:HA	1.61	0.80
1:K:604:THR:H	1:K:1240:ILE:HD13	1.44	0.80
1:K:883:SER:HB2	1:K:902:ASP:HB3	1.63	0.80
1:A:860:SER:O	1:A:861:GLN:CG	2.29	0.80
1:A:1240:ILE:CG2	1:A:1241:LEU:N	2.45	0.80
1:C:658:ASP:HB2	1:C:678:ASP:HB2	1.63	0.80
1:C:1212:THR:HG23	1:C:1213:PHE:H	1.47	0.80
1:E:1181:THR:HG21	1:E:1221:LYS:HA	1.61	0.80
1:G:860:SER:O	1:G:861:GLN:CG	2.29	0.80
1:G:1151:ILE:H	1:G:1167:PRO:HD2	1.46	0.80
1:I:174:LEU:HD23	1:I:175:GLU:N	1.95	0.80
1:K:146:GLU:OE1	1:K:147:PRO:CD	2.29	0.80
1:K:159:GLY:HA2	3:K:1301:DTP:O1A	1.81	0.80
1:A:171:HIS:CD2	1:A:175:GLU:CB	2.63	0.80
1:A:500:LEU:HD23	1:A:533:LEU:CD1	2.10	0.80
1:A:595:LEU:CD1	1:A:1244:LEU:HD22	2.10	0.80
1:A:604:THR:H	1:A:1240:ILE:HD13	1.43	0.80
1:C:171:HIS:CD2	1:C:175:GLU:CB	2.63	0.80
1:C:374:MET:HA	1:C:374:MET:CE	2.10	0.80
1:E:361:TYR:CE2	1:E:370:ILE:HG13	2.16	0.80
1:E:883:SER:HB2	1:E:902:ASP:HB3	1.63	0.80
1:E:1212:THR:HG23	1:E:1213:PHE:H	1.47	0.80
1:G:171:HIS:CD2	1:G:175:GLU:CB	2.63	0.80
1:K:500:LEU:HD23	1:K:533:LEU:CD1	2.10	0.80
1:K:595:LEU:CD1	1:K:1201:TRP:HZ2	1.78	0.80
1:K:1017:THR:HA	1:K:1031:ASN:HA	1.63	0.80
1:M:122:ARG:CZ	1:M:126:PHE:CZ	2.64	0.80
1:M:361:TYR:CE2	1:M:370:ILE:HG13	2.16	0.80
1:M:883:SER:HB2	1:M:902:ASP:HB3	1.63	0.80
1:A:1220:LEU:HG	1:A:1236:ASP:HB3	1.62	0.80
1:C:361:TYR:CE2	1:C:370:ILE:HG13	2.16	0.80
1:C:500:LEU:HD23	1:C:533:LEU:CD1	2.10	0.80
1:E:171:HIS:CD2	1:E:175:GLU:CB	2.63	0.80
1:E:1017:THR:HA	1:E:1031:ASN:HA	1.63	0.80
1:G:500:LEU:HD23	1:G:533:LEU:CD1	2.10	0.80
1:G:729:ASP:HB2	1:G:736:ARG:HB2	1.62	0.80
1:G:1212:THR:HG23	1:G:1213:PHE:H	1.47	0.80
1:I:1179:TRP:HA	1:I:1179:TRP:CE3	2.15	0.80
1:K:1199:ILE:CD1	1:K:1232:TYR:HE2	1.94	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:GLU:OE1	1:A:147:PRO:CD	2.29	0.80
1:C:1017:THR:HA	1:C:1031:ASN:HA	1.63	0.80
1:C:1233:VAL:CG1	1:C:1243:ILE:HG12	2.10	0.80
1:E:500:LEU:HD23	1:E:533:LEU:CD1	2.10	0.80
1:E:520:ALA:CB	1:E:648:GLU:CA	2.60	0.80
1:A:633:CYS:SG	1:A:660:VAL:HG11	2.22	0.80
1:A:1151:ILE:H	1:A:1167:PRO:HD2	1.46	0.80
1:A:1212:THR:HG23	1:A:1213:PHE:H	1.47	0.80
1:E:639:LEU:H	1:E:653:ILE:HG21	1.47	0.80
1:G:159:GLY:HA2	3:G:1301:DTP:O1A	1.81	0.80
1:I:146:GLU:OE1	1:I:147:PRO:CD	2.29	0.80
1:I:153:HIS:CD2	1:I:267:LYS:HB3	2.17	0.80
1:I:633:CYS:SG	1:I:660:VAL:HG11	2.22	0.80
1:I:883:SER:HB2	1:I:902:ASP:HB3	1.63	0.80
1:I:1212:THR:HG23	1:I:1213:PHE:H	1.47	0.80
1:I:1240:ILE:CG2	1:I:1241:LEU:N	2.45	0.80
1:K:639:LEU:H	1:K:653:ILE:HG21	1.46	0.80
1:K:1233:VAL:CG1	1:K:1243:ILE:HG12	2.10	0.80
1:M:860:SER:O	1:M:861:GLN:CG	2.29	0.80
1:C:657:GLU:HG2	1:C:680:LYS:HZ2	1.46	0.80
1:E:1220:LEU:HG	1:E:1236:ASP:HB3	1.62	0.80
1:G:903:ASP:O	1:G:1175:THR:CG2	2.30	0.80
1:G:1181:THR:HG21	1:G:1221:LYS:HA	1.61	0.80
1:K:174:LEU:HD23	1:K:175:GLU:N	1.95	0.80
1:K:860:SER:O	1:K:861:GLN:CG	2.29	0.80
1:A:883:SER:HB2	1:A:902:ASP:HB3	1.63	0.80
1:C:159:GLY:HA2	3:C:1301:DTP:O1A	1.81	0.80
1:C:1181:THR:HG21	1:C:1221:LYS:HA	1.61	0.80
1:C:1240:ILE:CG2	1:C:1241:LEU:N	2.45	0.80
1:E:633:CYS:SG	1:E:660:VAL:HG11	2.22	0.80
1:G:633:CYS:SG	1:G:660:VAL:HG11	2.22	0.80
1:I:171:HIS:CD2	1:I:175:GLU:CB	2.63	0.80
1:I:860:SER:O	1:I:861:GLN:CG	2.29	0.80
1:K:597:TRP:CH2	1:K:603:ILE:CD1	2.65	0.80
1:K:1212:THR:HG23	1:K:1213:PHE:H	1.46	0.80
1:C:241:ILE:C	1:C:242:LEU:HD12	2.02	0.80
1:C:427:ASP:OD2	1:C:434:ARG:CG	2.30	0.80
1:C:883:SER:HB2	1:C:902:ASP:HB3	1.63	0.80
1:E:153:HIS:CD2	1:E:267:LYS:HB3	2.17	0.80
1:E:241:ILE:C	1:E:242:LEU:HD12	2.02	0.80
1:E:1232:TYR:OH	1:E:1234:THR:HB	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1232:TYR:OH	1:G:1234:THR:HB	1.80	0.80
1:G:1233:VAL:CG1	1:G:1243:ILE:HG12	2.10	0.80
1:I:505:PHE:HE2	1:I:575:GLU:OE1	1.63	0.80
1:K:153:HIS:CD2	1:K:267:LYS:HB3	2.17	0.80
1:K:520:ALA:CB	1:K:648:GLU:CB	2.53	0.80
1:M:1017:THR:HA	1:M:1031:ASN:HA	1.63	0.80
1:M:1212:THR:HG23	1:M:1213:PHE:H	1.46	0.80
1:A:1179:TRP:HA	1:A:1179:TRP:CE3	2.15	0.80
1:C:153:HIS:CD2	1:C:267:LYS:HB3	2.17	0.80
1:C:1220:LEU:HG	1:C:1236:ASP:HB3	1.62	0.80
1:G:658:ASP:HB2	1:G:678:ASP:HB2	1.63	0.80
1:I:999:ARG:HG2	1:I:1030:TRP:CG	2.17	0.80
1:I:1220:LEU:HG	1:I:1236:ASP:HB3	1.62	0.80
1:M:122:ARG:HH21	1:M:126:PHE:HZ	1.23	0.80
1:M:171:HIS:CD2	1:M:175:GLU:CB	2.63	0.80
1:A:427:ASP:OD2	1:A:434:ARG:CG	2.30	0.79
1:A:903:ASP:O	1:A:1175:THR:CG2	2.30	0.79
1:E:146:GLU:OE1	1:E:147:PRO:CD	2.29	0.79
1:E:999:ARG:HG2	1:E:1030:TRP:CG	2.17	0.79
1:E:1233:VAL:CG1	1:E:1243:ILE:HG12	2.10	0.79
1:G:361:TYR:CE2	1:G:370:ILE:HG13	2.16	0.79
1:G:520:ALA:CB	1:G:648:GLU:CA	2.60	0.79
1:G:999:ARG:HG2	1:G:1030:TRP:CG	2.17	0.79
1:M:153:HIS:CD2	1:M:267:LYS:HB3	2.17	0.79
1:M:159:GLY:HA2	3:M:1301:DTP:O1A	1.81	0.79
1:M:1240:ILE:CG2	1:M:1241:LEU:N	2.45	0.79
1:C:633:CYS:SG	1:C:660:VAL:HG11	2.22	0.79
1:E:903:ASP:O	1:E:1175:THR:CG2	2.30	0.79
1:G:122:ARG:CZ	1:G:126:PHE:CZ	2.64	0.79
1:G:241:ILE:C	1:G:242:LEU:HD12	2.02	0.79
1:G:427:ASP:OD2	1:G:434:ARG:CG	2.30	0.79
1:G:505:PHE:HE2	1:G:575:GLU:OE1	1.63	0.79
1:G:1240:ILE:CG2	1:G:1241:LEU:N	2.45	0.79
1:K:658:ASP:HB2	1:K:678:ASP:HB2	1.63	0.79
1:M:633:CYS:SG	1:M:660:VAL:HG11	2.22	0.79
1:M:862:TYR:HE2	1:M:881:HIS:H	1.28	0.79
1:M:1151:ILE:H	1:M:1167:PRO:HD2	1.46	0.79
1:C:146:GLU:OE1	1:C:147:PRO:CD	2.29	0.79
1:C:1194:SER:HB3	1:C:1202:TRP:HZ3	1.47	0.79
1:E:195:LEU:HD12	1:E:195:LEU:O	1.83	0.79
1:I:903:ASP:O	1:I:1175:THR:CG2	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1240:ILE:CG2	1:K:1241:LEU:N	2.45	0.79
1:M:520:ALA:CB	1:M:648:GLU:CA	2.60	0.79
1:M:1199:ILE:CD1	1:M:1232:TYR:HE2	1.94	0.79
1:A:241:ILE:C	1:A:242:LEU:HD12	2.03	0.79
1:C:195:LEU:HD12	1:C:195:LEU:O	1.83	0.79
1:G:153:HIS:CD2	1:G:267:LYS:HB3	2.17	0.79
1:G:513:LYS:O	1:G:517:VAL:HB	1.83	0.79
1:G:595:LEU:CD1	1:G:1244:LEU:HD22	2.10	0.79
1:G:1017:THR:HA	1:G:1031:ASN:HA	1.63	0.79
1:I:1199:ILE:CD1	1:I:1232:TYR:HE2	1.94	0.79
1:I:1233:VAL:CG1	1:I:1243:ILE:HG12	2.10	0.79
1:K:171:HIS:CD2	1:K:175:GLU:CB	2.63	0.79
1:K:633:CYS:SG	1:K:660:VAL:HG11	2.22	0.79
1:A:603:ILE:HD12	1:A:604:THR:OG1	1.82	0.79
1:C:146:GLU:O	1:C:147:PRO:O	2.01	0.79
1:E:427:ASP:OD2	1:E:434:ARG:CG	2.30	0.79
5:F:201:HEM:HBC2	5:F:201:HEM:CMC	2.11	0.79
1:G:146:GLU:OE1	1:G:147:PRO:CD	2.29	0.79
1:I:427:ASP:OD2	1:I:434:ARG:CG	2.30	0.79
1:I:1017:THR:HA	1:I:1031:ASN:HA	1.63	0.79
1:I:1151:ILE:H	1:I:1167:PRO:HD2	1.46	0.79
1:I:1233:VAL:HB	1:I:1242:TYR:O	1.83	0.79
1:K:361:TYR:CE2	1:K:370:ILE:HG13	2.16	0.79
1:K:513:LYS:O	1:K:517:VAL:HB	1.83	0.79
1:K:729:ASP:HB2	1:K:736:ARG:HB2	1.62	0.79
1:K:1203:ASN:H	1:K:1208:GLU:HA	1.48	0.79
1:M:217:PRO:HB3	1:M:222:GLU:HG2	1.64	0.79
1:A:999:ARG:HG2	1:A:1030:TRP:CG	2.17	0.79
1:C:903:ASP:O	1:C:1175:THR:CG2	2.30	0.79
1:E:217:PRO:HB3	1:E:222:GLU:HG2	1.64	0.79
1:E:1151:ILE:H	1:E:1167:PRO:HD2	1.46	0.79
1:G:1199:ILE:CD1	1:G:1232:TYR:HE2	1.94	0.79
1:G:1220:LEU:HG	1:G:1236:ASP:HB3	1.62	0.79
1:K:195:LEU:O	1:K:195:LEU:HD12	1.83	0.79
1:K:217:PRO:HB3	1:K:222:GLU:HG2	1.64	0.79
1:K:520:ALA:CB	1:K:648:GLU:CA	2.60	0.79
1:M:603:ILE:HD12	1:M:604:THR:OG1	1.82	0.79
1:M:1203:ASN:H	1:M:1208:GLU:HA	1.48	0.79
1:A:146:GLU:O	1:A:147:PRO:O	2.01	0.79
1:A:153:HIS:CD2	1:A:267:LYS:HB3	2.17	0.79
1:A:1017:THR:HA	1:A:1031:ASN:HA	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:513:LYS:O	1:C:517:VAL:HB	1.83	0.79
1:E:361:TYR:HE2	1:E:370:ILE:HG13	1.46	0.79
1:M:427:ASP:OD2	1:M:434:ARG:CG	2.30	0.79
1:M:903:ASP:O	1:M:1175:THR:CG2	2.30	0.79
1:G:1194:SER:HB3	1:G:1202:TRP:HZ3	1.47	0.79
1:I:1203:ASN:H	1:I:1208:GLU:HA	1.48	0.79
1:K:361:TYR:HE2	1:K:370:ILE:HG13	1.46	0.79
1:K:419:VAL:CG1	1:K:426:CYS:SG	2.71	0.79
1:M:657:GLU:HG2	1:M:680:LYS:HZ2	1.46	0.79
1:A:195:LEU:HD12	1:A:195:LEU:O	1.83	0.79
1:A:1194:SER:HB3	1:A:1202:TRP:HZ3	1.47	0.79
1:G:639:LEU:HD23	1:G:653:ILE:CD1	2.13	0.79
1:I:520:ALA:CB	1:I:648:GLU:CA	2.60	0.79
1:K:903:ASP:O	1:K:1175:THR:CG2	2.30	0.79
1:M:999:ARG:HG2	1:M:1030:TRP:CG	2.17	0.79
1:A:529:TYR:O	1:A:532:ILE:CG2	2.31	0.79
1:C:603:ILE:HD12	1:C:604:THR:OG1	1.82	0.79
1:E:513:LYS:O	1:E:517:VAL:HB	1.83	0.79
1:I:241:ILE:C	1:I:242:LEU:HD12	2.02	0.79
1:I:264:THR:OG1	1:I:265:ARG:N	2.16	0.79
1:I:419:VAL:CG1	1:I:426:CYS:SG	2.71	0.79
1:I:513:LYS:O	1:I:517:VAL:HB	1.83	0.79
1:I:639:LEU:HD23	1:I:653:ILE:CD1	2.13	0.79
1:K:427:ASP:OD2	1:K:434:ARG:CG	2.30	0.79
1:M:241:ILE:C	1:M:242:LEU:HD12	2.02	0.79
1:A:513:LYS:O	1:A:517:VAL:HB	1.83	0.78
1:A:1203:ASN:H	1:A:1208:GLU:HA	1.48	0.78
1:C:866:LEU:HD22	1:C:914:VAL:HB	1.65	0.78
1:E:419:VAL:CG1	1:E:426:CYS:SG	2.71	0.78
1:G:108:SER:O	1:G:111:ARG:CG	2.31	0.78
1:G:195:LEU:HD12	1:G:195:LEU:O	1.83	0.78
1:G:419:VAL:CG1	1:G:426:CYS:SG	2.71	0.78
1:G:1183:LEU:HB3	1:G:1192:LEU:CD2	2.14	0.78
1:G:1203:ASN:H	1:G:1208:GLU:HA	1.48	0.78
1:I:195:LEU:HD12	1:I:195:LEU:O	1.83	0.78
1:I:639:LEU:H	1:I:653:ILE:HG21	1.46	0.78
1:I:658:ASP:HB2	1:I:678:ASP:HB2	1.63	0.78
1:K:108:SER:O	1:K:111:ARG:CG	2.31	0.78
1:K:603:ILE:HD12	1:K:604:THR:OG1	1.82	0.78
1:K:771:ASP:HB2	1:K:778:ARG:HB2	1.66	0.78
1:K:999:ARG:HG2	1:K:1030:TRP:CG	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:195:LEU:HD12	1:M:195:LEU:O	1.83	0.78
1:C:122:ARG:HH21	1:C:126:PHE:HZ	1.24	0.78
1:C:361:TYR:HE2	1:C:370:ILE:HG13	1.46	0.78
1:C:529:TYR:O	1:C:532:ILE:CG2	2.31	0.78
1:C:1183:LEU:HB3	1:C:1192:LEU:HD21	1.64	0.78
1:E:603:ILE:HD12	1:E:604:THR:OG1	1.82	0.78
1:E:1194:SER:HB3	1:E:1202:TRP:HZ3	1.47	0.78
1:G:217:PRO:HB3	1:G:222:GLU:HG2	1.64	0.78
1:K:241:ILE:C	1:K:242:LEU:HD12	2.02	0.78
5:L:201:HEM:HBC2	5:L:201:HEM:CMC	2.11	0.78
1:M:595:LEU:CD1	1:M:1244:LEU:HD22	2.10	0.78
1:M:1233:VAL:HB	1:M:1242:TYR:O	1.83	0.78
1:A:361:TYR:HE2	1:A:370:ILE:HG13	1.45	0.78
1:A:520:ALA:CB	1:A:648:GLU:CA	2.60	0.78
1:A:1183:LEU:HB3	1:A:1192:LEU:HD21	1.64	0.78
1:C:1183:LEU:HB3	1:C:1192:LEU:CD2	2.14	0.78
1:C:1233:VAL:HB	1:C:1242:TYR:O	1.83	0.78
1:E:1203:ASN:H	1:E:1208:GLU:HA	1.48	0.78
1:I:729:ASP:HB2	1:I:736:ARG:HB2	1.62	0.78
1:I:771:ASP:HB2	1:I:778:ARG:HB2	1.66	0.78
1:K:639:LEU:HD23	1:K:653:ILE:CD1	2.13	0.78
1:M:146:GLU:O	1:M:147:PRO:O	2.01	0.78
1:A:108:SER:O	1:A:111:ARG:CG	2.31	0.78
1:C:883:SER:OG	1:C:902:ASP:HB2	1.83	0.78
1:C:999:ARG:HG2	1:C:1030:TRP:CG	2.17	0.78
1:C:1203:ASN:H	1:C:1208:GLU:HA	1.48	0.78
1:E:866:LEU:HD22	1:E:914:VAL:HB	1.65	0.78
1:E:883:SER:OG	1:E:902:ASP:HB2	1.83	0.78
1:G:614:HIS:HE1	1:G:640:GLN:CG	1.83	0.78
1:G:639:LEU:H	1:G:653:ILE:HG21	1.46	0.78
1:G:903:ASP:O	1:G:904:GLN:HB2	1.83	0.78
1:K:1151:ILE:H	1:K:1167:PRO:HD2	1.46	0.78
1:M:108:SER:O	1:M:111:ARG:CG	2.31	0.78
1:M:639:LEU:H	1:M:653:ILE:HG21	1.47	0.78
1:A:217:PRO:HB3	1:A:222:GLU:HG2	1.64	0.78
1:A:866:LEU:HD22	1:A:914:VAL:HB	1.65	0.78
1:C:1194:SER:HG	1:C:1202:TRP:HE3	1.29	0.78
1:E:108:SER:O	1:E:111:ARG:CG	2.31	0.78
1:E:146:GLU:O	1:E:147:PRO:O	2.01	0.78
1:E:1233:VAL:HB	1:E:1242:TYR:O	1.83	0.78
1:I:597:TRP:CH2	1:I:603:ILE:CD1	2.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:603:ILE:HD12	1:I:604:THR:OG1	1.82	0.78
1:M:771:ASP:HB2	1:M:778:ARG:HB2	1.66	0.78
1:M:1194:SER:HB3	1:M:1202:TRP:HZ3	1.47	0.78
1:A:1183:LEU:HB3	1:A:1192:LEU:CD2	2.13	0.78
1:A:1233:VAL:HB	1:A:1242:TYR:O	1.83	0.78
1:E:658:ASP:HB2	1:E:678:ASP:HB2	1.63	0.78
1:G:603:ILE:HD12	1:G:604:THR:OG1	1.82	0.78
1:K:1194:SER:HB3	1:K:1202:TRP:HZ3	1.47	0.78
1:K:1233:VAL:HB	1:K:1242:TYR:O	1.83	0.78
1:M:364:LEU:HD11	1:M:368:MET:CE	2.14	0.78
1:A:639:LEU:HD23	1:A:653:ILE:CD1	2.13	0.78
1:G:480:CYS:O	1:G:483:TRP:HB2	1.84	0.78
1:I:862:TYR:H	1:I:884:TRP:HD1	1.30	0.78
1:K:264:THR:OG1	1:K:265:ARG:N	2.16	0.78
1:K:480:CYS:O	1:K:483:TRP:HB2	1.84	0.78
1:M:529:TYR:O	1:M:532:ILE:CG2	2.31	0.78
1:M:1183:LEU:HB3	1:M:1192:LEU:CD2	2.14	0.78
1:A:419:VAL:CG1	1:A:426:CYS:SG	2.71	0.78
1:C:364:LEU:HD11	1:C:368:MET:CE	2.14	0.78
1:C:639:LEU:H	1:C:653:ILE:HG21	1.47	0.78
1:E:1183:LEU:HB3	1:E:1192:LEU:HD21	1.64	0.78
1:G:364:LEU:HD11	1:G:368:MET:CE	2.14	0.78
1:C:419:VAL:CG1	1:C:426:CYS:SG	2.71	0.78
1:C:1151:ILE:H	1:C:1167:PRO:HD2	1.46	0.78
1:E:334:PHE:CB	1:E:337:ARG:HD2	2.14	0.78
1:E:1183:LEU:HB3	1:E:1192:LEU:CD2	2.14	0.78
1:E:1240:ILE:CG2	1:E:1241:LEU:N	2.45	0.78
1:G:529:TYR:O	1:G:532:ILE:CG2	2.31	0.78
1:I:217:PRO:HB3	1:I:222:GLU:HG2	1.64	0.78
1:E:597:TRP:CH2	1:E:603:ILE:CD1	2.65	0.78
1:E:1167:PRO:CB	1:E:1202:TRP:CD2	2.63	0.78
1:G:771:ASP:HB2	1:G:778:ARG:HB2	1.66	0.78
1:G:1233:VAL:HB	1:G:1242:TYR:O	1.83	0.78
1:I:108:SER:O	1:I:111:ARG:CG	2.31	0.78
1:I:146:GLU:O	1:I:147:PRO:O	2.01	0.78
1:I:883:SER:OG	1:I:902:ASP:HB2	1.83	0.78
1:I:903:ASP:O	1:I:904:GLN:HB2	1.83	0.78
1:A:883:SER:OG	1:A:902:ASP:HB2	1.83	0.77
1:G:262:LEU:HD21	1:G:270:THR:HG21	1.66	0.77
5:H:201:HEM:HBC2	5:H:201:HEM:CMC	2.11	0.77
1:I:364:LEU:HD11	1:I:368:MET:CE	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:419:VAL:CG1	1:M:426:CYS:SG	2.71	0.77
1:M:883:SER:OG	1:M:902:ASP:HB2	1.83	0.77
1:M:902:ASP:CB	2:N:72:LYS:HZ2	1.97	0.77
1:C:217:PRO:HB3	1:C:222:GLU:HG2	1.64	0.77
1:C:639:LEU:HD23	1:C:653:ILE:CD1	2.13	0.77
1:E:529:TYR:O	1:E:532:ILE:CG2	2.31	0.77
1:E:903:ASP:O	1:E:904:GLN:HB2	1.83	0.77
1:G:866:LEU:HD22	1:G:914:VAL:HB	1.65	0.77
1:G:883:SER:OG	1:G:902:ASP:HB2	1.83	0.77
1:G:1183:LEU:HB3	1:G:1192:LEU:HD21	1.64	0.77
1:I:262:LEU:HD21	1:I:270:THR:HG21	1.66	0.77
1:I:529:TYR:O	1:I:532:ILE:CG2	2.31	0.77
1:K:1183:LEU:HB3	1:K:1192:LEU:CD2	2.14	0.77
1:E:140:LEU:O	1:E:140:LEU:HD13	1.84	0.77
1:E:771:ASP:HB2	1:E:778:ARG:HB2	1.66	0.77
1:I:361:TYR:HE2	1:I:370:ILE:HG13	1.46	0.77
1:K:364:LEU:HD11	1:K:368:MET:CE	2.14	0.77
1:M:639:LEU:HD23	1:M:653:ILE:CD1	2.13	0.77
1:A:480:CYS:O	1:A:483:TRP:HB2	1.84	0.77
1:C:1217:GLY:C	1:C:1218:THR:HG23	2.05	0.77
2:D:18:HIS:CE1	2:D:29:GLY:CA	2.66	0.77
1:G:140:LEU:O	1:G:140:LEU:HD13	1.84	0.77
1:G:334:PHE:CB	1:G:337:ARG:HD2	2.14	0.77
1:I:334:PHE:CB	1:I:337:ARG:HD2	2.14	0.77
1:K:140:LEU:O	1:K:140:LEU:HD13	1.84	0.77
1:K:146:GLU:O	1:K:147:PRO:O	2.01	0.77
1:M:386:LEU:HD11	1:M:424:LEU:HD22	1.67	0.77
1:A:364:LEU:HD11	1:A:368:MET:CE	2.14	0.77
1:C:108:SER:O	1:C:111:ARG:CG	2.31	0.77
1:E:262:LEU:HD21	1:E:270:THR:HG21	1.66	0.77
1:E:844:GLN:OE1	1:E:860:SER:HA	1.85	0.77
1:K:595:LEU:CD1	1:K:1244:LEU:HD22	2.10	0.77
1:M:140:LEU:O	1:M:140:LEU:HD13	1.84	0.77
1:M:1183:LEU:HB3	1:M:1192:LEU:HD21	1.64	0.77
1:A:140:LEU:HD13	1:A:140:LEU:O	1.84	0.77
1:A:149:TRP:CH2	1:A:273:VAL:HG11	2.20	0.77
1:C:902:ASP:CB	2:D:72:LYS:HZ2	1.98	0.77
1:C:1167:PRO:CB	1:C:1202:TRP:CD2	2.63	0.77
1:C:1179:TRP:HA	1:C:1179:TRP:HE3	1.50	0.77
1:E:149:TRP:CH2	1:E:273:VAL:HG11	2.20	0.77
1:E:639:LEU:HD23	1:E:653:ILE:CD1	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:595:LEU:CD1	1:I:1244:LEU:HD22	2.10	0.77
1:K:903:ASP:O	1:K:904:GLN:HB2	1.83	0.77
1:M:866:LEU:HD22	1:M:914:VAL:HB	1.65	0.77
2:N:18:HIS:CE1	2:N:29:GLY:CA	2.66	0.77
1:A:438:HIS:O	1:A:442:VAL:HG23	1.85	0.77
1:C:264:THR:OG1	1:C:265:ARG:N	2.16	0.77
1:C:932:GLU:OE1	1:C:933:ASN:ND2	2.17	0.77
1:E:364:LEU:HD11	1:E:368:MET:CE	2.14	0.77
1:G:149:TRP:CH2	1:G:273:VAL:HG11	2.20	0.77
1:K:386:LEU:HD11	1:K:424:LEU:HD22	1.67	0.77
1:M:573:THR:O	1:M:577:TYR:HB3	1.85	0.77
1:A:161:SER:HB2	3:A:1301:DTP:O2A	1.85	0.77
1:A:771:ASP:HB2	1:A:778:ARG:HB2	1.66	0.77
1:A:1179:TRP:HA	1:A:1179:TRP:HE3	1.50	0.77
1:C:149:TRP:CH2	1:C:273:VAL:HG11	2.20	0.77
1:C:480:CYS:O	1:C:483:TRP:HB2	1.84	0.77
1:C:771:ASP:HB2	1:C:778:ARG:HB2	1.66	0.77
1:G:573:THR:O	1:G:577:TYR:HB3	1.85	0.77
1:I:1183:LEU:HB3	1:I:1192:LEU:HD21	1.64	0.77
1:I:1183:LEU:HB3	1:I:1192:LEU:CD2	2.14	0.77
1:K:529:TYR:O	1:K:532:ILE:CG2	2.31	0.77
1:K:883:SER:OG	1:K:902:ASP:HB2	1.83	0.77
1:M:179:PRO:HD2	1:M:237:ARG:NH1	1.88	0.77
1:M:513:LYS:O	1:M:517:VAL:HB	1.83	0.77
1:M:903:ASP:O	1:M:904:GLN:HB2	1.83	0.77
1:C:161:SER:HB2	3:C:1301:DTP:O2A	1.85	0.77
1:C:334:PHE:CB	1:C:337:ARG:HD2	2.14	0.77
1:C:595:LEU:CD1	1:C:1201:TRP:CH2	2.67	0.77
1:C:884:TRP:CE3	1:C:885:VAL:O	2.38	0.77
1:E:161:SER:HB2	3:E:1301:DTP:O2A	1.85	0.77
1:E:1176:HIS:HB3	1:E:1218:THR:HG21	1.67	0.77
1:E:1217:GLY:C	1:E:1218:THR:HG23	2.05	0.77
1:G:450:CYS:O	1:G:453:LEU:HG	1.85	0.77
1:I:884:TRP:CE3	1:I:885:VAL:O	2.38	0.77
1:K:334:PHE:CB	1:K:337:ARG:HD2	2.14	0.77
1:K:844:GLN:OE1	1:K:860:SER:HA	1.85	0.77
1:K:884:TRP:CE3	1:K:885:VAL:O	2.38	0.77
1:M:149:TRP:CH2	1:M:273:VAL:HG11	2.20	0.77
1:M:264:THR:OG1	1:M:265:ARG:N	2.16	0.77
1:M:1167:PRO:CB	1:M:1202:TRP:CD2	2.63	0.77
1:C:520:ALA:CB	1:C:648:GLU:CA	2.60	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:450:CYS:O	1:I:453:LEU:HG	1.85	0.77
1:M:844:GLN:OE1	1:M:860:SER:HA	1.85	0.77
1:M:1179:TRP:HA	1:M:1179:TRP:HE3	1.50	0.77
1:A:573:THR:O	1:A:577:TYR:HB3	1.85	0.76
1:C:140:LEU:O	1:C:140:LEU:HD13	1.84	0.76
1:C:438:HIS:O	1:C:442:VAL:HG23	1.85	0.76
1:C:1176:HIS:HB3	1:C:1218:THR:HG21	1.67	0.76
1:E:1179:TRP:HA	1:E:1179:TRP:HE3	1.50	0.76
1:I:149:TRP:CH2	1:I:273:VAL:HG11	2.20	0.76
2:J:18:HIS:CE1	2:J:29:GLY:CA	2.66	0.76
1:K:450:CYS:O	1:K:453:LEU:HG	1.85	0.76
1:M:161:SER:HB2	3:M:1301:DTP:O2A	1.85	0.76
1:M:285:SER:O	1:M:319:GLY:CA	2.29	0.76
1:M:438:HIS:O	1:M:442:VAL:HG23	1.85	0.76
1:A:179:PRO:HD2	1:A:237:ARG:NH1	1.88	0.76
1:A:884:TRP:CE3	1:A:885:VAL:O	2.38	0.76
1:C:903:ASP:O	1:C:904:GLN:HB2	1.83	0.76
1:G:932:GLU:OE1	1:G:933:ASN:ND2	2.18	0.76
1:G:1176:HIS:HB3	1:G:1218:THR:HG21	1.67	0.76
1:I:480:CYS:O	1:I:483:TRP:HB2	1.84	0.76
1:I:932:GLU:OE1	1:I:933:ASN:ND2	2.18	0.76
1:K:262:LEU:HD21	1:K:270:THR:HG21	1.66	0.76
1:K:1183:LEU:HB3	1:K:1192:LEU:HD21	1.64	0.76
1:A:334:PHE:CB	1:A:337:ARG:HD2	2.14	0.76
1:E:450:CYS:O	1:E:453:LEU:HG	1.85	0.76
1:E:932:GLU:OE1	1:E:933:ASN:ND2	2.17	0.76
1:G:146:GLU:O	1:G:147:PRO:O	2.01	0.76
1:G:884:TRP:CE3	1:G:885:VAL:O	2.38	0.76
1:I:386:LEU:HD11	1:I:424:LEU:HD22	1.67	0.76
1:I:573:THR:O	1:I:577:TYR:HB3	1.85	0.76
1:I:844:GLN:OE1	1:I:860:SER:HA	1.85	0.76
1:I:866:LEU:HD22	1:I:914:VAL:HB	1.65	0.76
1:K:149:TRP:CH2	1:K:273:VAL:HG11	2.20	0.76
1:K:573:THR:O	1:K:577:TYR:HB3	1.85	0.76
1:K:866:LEU:HD22	1:K:914:VAL:HB	1.65	0.76
1:K:1167:PRO:CB	1:K:1202:TRP:CD2	2.63	0.76
1:K:1218:THR:O	1:K:1236:ASP:CB	2.32	0.76
2:L:18:HIS:CE1	2:L:29:GLY:CA	2.66	0.76
1:M:334:PHE:CB	1:M:337:ARG:HD2	2.14	0.76
1:M:614:HIS:HE1	1:M:640:GLN:CG	1.83	0.76
1:C:862:TYR:HE2	1:C:881:HIS:H	1.28	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:386:LEU:HD11	1:G:424:LEU:HD22	1.67	0.76
1:G:1167:PRO:CB	1:G:1202:TRP:CD2	2.63	0.76
1:I:140:LEU:HD13	1:I:140:LEU:O	1.84	0.76
1:K:1179:TRP:HA	1:K:1179:TRP:HE3	1.50	0.76
1:K:1217:GLY:C	1:K:1218:THR:HG23	2.05	0.76
1:M:262:LEU:HD21	1:M:270:THR:HG21	1.66	0.76
1:A:844:GLN:OE1	1:A:860:SER:HA	1.85	0.76
1:A:932:GLU:OE1	1:A:933:ASN:ND2	2.17	0.76
1:C:844:GLN:OE1	1:C:860:SER:HA	1.85	0.76
1:G:161:SER:HB2	3:G:1301:DTP:O2A	1.85	0.76
1:G:1179:TRP:HA	1:G:1179:TRP:HE3	1.50	0.76
1:I:427:ASP:OD2	1:I:434:ARG:HG2	1.86	0.76
1:K:161:SER:HB2	3:K:1301:DTP:O2A	1.85	0.76
1:K:453:LEU:CD1	1:K:454:GLN:HE21	1.97	0.76
1:K:932:GLU:OE1	1:K:933:ASN:ND2	2.18	0.76
1:M:480:CYS:O	1:M:483:TRP:HB2	1.84	0.76
1:M:920:VAL:HG12	1:M:921:MET:H	1.51	0.76
1:A:264:THR:OG1	1:A:265:ARG:N	2.16	0.76
1:A:427:ASP:OD2	1:A:434:ARG:HG2	1.86	0.76
1:A:597:TRP:CH2	1:A:603:ILE:CD1	2.65	0.76
1:E:657:GLU:HG2	1:E:680:LYS:HZ2	1.48	0.76
1:E:862:TYR:HE2	1:E:881:HIS:H	1.28	0.76
1:E:884:TRP:CE3	1:E:885:VAL:O	2.38	0.76
1:G:597:TRP:CH2	1:G:603:ILE:CD1	2.65	0.76
1:G:658:ASP:OD2	1:G:677:VAL:CB	2.34	0.76
1:I:1194:SER:CB	1:I:1202:TRP:CE3	2.69	0.76
1:A:561:PRO:O	1:A:563:ILE:HD13	1.86	0.76
1:C:386:LEU:HD11	1:C:424:LEU:HD22	1.67	0.76
1:C:450:CYS:O	1:C:453:LEU:HG	1.85	0.76
1:E:480:CYS:O	1:E:483:TRP:HB2	1.84	0.76
1:G:427:ASP:OD2	1:G:434:ARG:HG2	1.86	0.76
1:G:438:HIS:O	1:G:442:VAL:HG23	1.85	0.76
1:G:1217:GLY:C	1:G:1218:THR:HG23	2.05	0.76
1:I:461:ILE:CD1	1:I:491:MET:HG2	2.16	0.76
1:K:1048:LYS:H	1:K:1062:SER:HA	1.51	0.76
1:M:561:PRO:O	1:M:563:ILE:HD13	1.86	0.76
1:M:884:TRP:CE3	1:M:885:VAL:O	2.38	0.76
5:B:201:HEM:HBC2	5:B:201:HEM:CMC	2.11	0.76
1:C:554:LEU:HD11	1:C:1214:TYR:CE1	2.21	0.76
1:G:179:PRO:CG	1:G:237:ARG:NH1	2.49	0.76
1:G:657:GLU:HG2	1:G:680:LYS:HZ1	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:844:GLN:OE1	1:G:860:SER:HA	1.85	0.76
1:G:862:TYR:HE2	1:G:881:HIS:H	1.28	0.76
1:I:948:LEU:CD1	1:I:957:ASP:OD2	2.34	0.76
1:I:1176:HIS:HB3	1:I:1218:THR:HG21	1.67	0.76
1:I:1194:SER:HB3	1:I:1202:TRP:HZ3	1.47	0.76
1:K:561:PRO:O	1:K:563:ILE:HD13	1.86	0.76
1:M:875:VAL:HG12	1:M:915:CYS:HA	1.68	0.76
1:M:1048:LYS:H	1:M:1062:SER:HA	1.51	0.76
1:A:554:LEU:HD11	1:A:1214:TYR:CE1	2.21	0.76
1:A:658:ASP:OD2	1:A:677:VAL:CB	2.34	0.76
1:C:1194:SER:CB	1:C:1202:TRP:CE3	2.69	0.76
1:E:264:THR:OG1	1:E:265:ARG:N	2.16	0.76
1:E:1194:SER:CB	1:E:1202:TRP:CE3	2.69	0.76
1:I:438:HIS:O	1:I:442:VAL:HG23	1.85	0.76
1:I:1048:LYS:H	1:I:1062:SER:HA	1.51	0.76
1:M:461:ILE:CD1	1:M:491:MET:HG2	2.16	0.76
1:M:637:LYS:HA	1:M:660:VAL:HG23	1.68	0.76
1:A:159:GLY:CA	3:A:1301:DTP:O1A	2.35	0.75
1:A:262:LEU:HD21	1:A:270:THR:HG21	1.66	0.75
1:A:386:LEU:HD11	1:A:424:LEU:HD22	1.67	0.75
1:A:862:TYR:H	1:A:884:TRP:HD1	1.31	0.75
1:A:903:ASP:O	1:A:904:GLN:HB2	1.83	0.75
1:A:1176:HIS:O	1:A:1197:GLY:HA3	1.86	0.75
1:C:262:LEU:HD21	1:C:270:THR:HG21	1.66	0.75
1:C:573:THR:O	1:C:577:TYR:HB3	1.85	0.75
1:E:179:PRO:CG	1:E:237:ARG:NH1	2.49	0.75
1:E:595:LEU:CD1	1:E:1201:TRP:CH2	2.67	0.75
1:G:283:GLU:OE2	1:G:284:SER:N	2.19	0.75
1:G:554:LEU:HD11	1:G:1214:TYR:CE1	2.21	0.75
1:G:1194:SER:HB2	1:G:1202:TRP:CE3	2.21	0.75
1:K:1194:SER:CB	1:K:1202:TRP:CE3	2.69	0.75
1:M:932:GLU:OE1	1:M:933:ASN:ND2	2.18	0.75
1:A:1048:LYS:H	1:A:1062:SER:HA	1.51	0.75
1:A:1176:HIS:HB3	1:A:1218:THR:HG21	1.67	0.75
1:E:119:VAL:HG12	1:E:184:TRP:CE3	2.21	0.75
1:E:554:LEU:HD11	1:E:1214:TYR:CE1	2.21	0.75
2:H:18:HIS:CE1	2:H:29:GLY:CA	2.66	0.75
1:I:179:PRO:CG	1:I:237:ARG:NH1	2.49	0.75
1:I:1179:TRP:HA	1:I:1179:TRP:HE3	1.50	0.75
1:I:1194:SER:HB2	1:I:1202:TRP:CE3	2.20	0.75
1:K:427:ASP:OD2	1:K:434:ARG:HG2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:875:VAL:HG12	1:K:915:CYS:HA	1.68	0.75
1:A:948:LEU:CD1	1:A:957:ASP:OD2	2.34	0.75
1:A:1194:SER:CB	1:A:1202:TRP:CE3	2.69	0.75
1:A:1194:SER:HB2	1:A:1202:TRP:CE3	2.20	0.75
1:E:386:LEU:HD11	1:E:424:LEU:HD22	1.67	0.75
1:E:658:ASP:OD2	1:E:677:VAL:CB	2.34	0.75
1:I:119:VAL:HG12	1:I:184:TRP:CE3	2.21	0.75
1:I:159:GLY:CA	3:I:1301:DTP:O1A	2.34	0.75
1:I:658:ASP:OD2	1:I:677:VAL:CB	2.34	0.75
1:I:875:VAL:HG12	1:I:915:CYS:HA	1.68	0.75
1:A:637:LYS:HA	1:A:660:VAL:HG23	1.67	0.75
1:A:875:VAL:HG12	1:A:915:CYS:HA	1.68	0.75
1:C:461:ILE:CD1	1:C:491:MET:HG2	2.16	0.75
1:G:317:CYS:SG	1:G:323:VAL:HG12	2.27	0.75
1:G:637:LYS:HA	1:G:660:VAL:HG23	1.67	0.75
1:G:875:VAL:HG12	1:G:915:CYS:HA	1.68	0.75
1:G:1194:SER:CB	1:G:1202:TRP:CE3	2.69	0.75
1:I:161:SER:HB2	3:I:1301:DTP:O2A	1.85	0.75
1:I:283:GLU:OE2	1:I:284:SER:N	2.19	0.75
1:A:450:CYS:O	1:A:453:LEU:HG	1.85	0.75
1:C:427:ASP:OD2	1:C:434:ARG:HG2	1.86	0.75
1:C:597:TRP:CH2	1:C:603:ILE:CD1	2.65	0.75
1:C:1199:ILE:HD11	1:C:1232:TYR:CE2	2.22	0.75
1:E:159:GLY:CA	3:E:1301:DTP:O1A	2.35	0.75
1:E:438:HIS:O	1:E:442:VAL:HG23	1.85	0.75
1:E:1194:SER:HB2	1:E:1202:TRP:CE3	2.21	0.75
1:G:159:GLY:CA	3:G:1301:DTP:O1A	2.35	0.75
1:I:554:LEU:HD11	1:I:1214:TYR:CE1	2.21	0.75
1:I:1217:GLY:C	1:I:1218:THR:HG23	2.05	0.75
1:K:438:HIS:O	1:K:442:VAL:HG23	1.85	0.75
1:K:637:LYS:HA	1:K:660:VAL:HG23	1.67	0.75
1:M:179:PRO:CG	1:M:237:ARG:NH1	2.49	0.75
1:C:561:PRO:O	1:C:563:ILE:HD13	1.86	0.75
1:C:862:TYR:H	1:C:884:TRP:HD1	1.31	0.75
1:C:1048:LYS:H	1:C:1062:SER:HA	1.51	0.75
1:C:1194:SER:HB2	1:C:1202:TRP:CE3	2.21	0.75
1:E:573:THR:O	1:E:577:TYR:HB3	1.85	0.75
1:G:461:ILE:CD1	1:G:491:MET:HG2	2.16	0.75
1:G:595:LEU:CD1	1:G:1201:TRP:CH2	2.67	0.75
1:G:1048:LYS:H	1:G:1062:SER:HA	1.51	0.75
1:G:1218:THR:O	1:G:1236:ASP:CB	2.32	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1199:ILE:HD11	1:I:1232:TYR:CE2	2.22	0.75
1:K:159:GLY:CA	3:K:1301:DTP:O1A	2.34	0.75
1:K:461:ILE:CD1	1:K:491:MET:HG2	2.16	0.75
1:K:920:VAL:HG12	1:K:921:MET:H	1.51	0.75
1:M:554:LEU:HD11	1:M:1214:TYR:CE1	2.21	0.75
1:M:1183:LEU:N	1:M:1183:LEU:HD12	2.02	0.75
1:M:1194:SER:HB2	1:M:1202:TRP:CE3	2.21	0.75
1:A:597:TRP:CZ2	1:A:603:ILE:HG12	2.22	0.75
1:C:322:LEU:CD1	1:C:364:LEU:CD2	2.42	0.75
1:C:1183:LEU:HD12	1:C:1183:LEU:N	2.02	0.75
1:E:461:ILE:CD1	1:E:491:MET:HG2	2.16	0.75
1:E:875:VAL:HG12	1:E:915:CYS:HA	1.68	0.75
1:G:513:LYS:HD3	1:G:522:LEU:HG	1.69	0.75
1:G:1199:ILE:HD11	1:G:1232:TYR:CE2	2.22	0.75
1:I:561:PRO:O	1:I:563:ILE:HD13	1.86	0.75
1:K:119:VAL:HG12	1:K:184:TRP:CE3	2.21	0.75
1:K:520:ALA:HB2	1:K:648:GLU:HA	1.69	0.75
1:K:1176:HIS:O	1:K:1197:GLY:HA3	1.87	0.75
1:M:597:TRP:CH2	1:M:603:ILE:CD1	2.65	0.75
1:A:179:PRO:CG	1:A:237:ARG:NH1	2.49	0.75
1:A:513:LYS:HD3	1:A:522:LEU:HG	1.69	0.75
1:A:520:ALA:HB2	1:A:648:GLU:HA	1.69	0.75
1:C:597:TRP:CZ2	1:C:603:ILE:HG12	2.22	0.75
1:C:658:ASP:OD2	1:C:677:VAL:CB	2.34	0.75
1:E:920:VAL:HG12	1:E:921:MET:H	1.51	0.75
1:E:1199:ILE:HD11	1:E:1232:TYR:CE2	2.22	0.75
1:G:597:TRP:CZ2	1:G:603:ILE:HG12	2.22	0.75
1:G:902:ASP:CB	2:H:72:LYS:HZ2	2.00	0.75
1:K:1194:SER:HB2	1:K:1202:TRP:CE3	2.21	0.75
1:K:1199:ILE:HD11	1:K:1232:TYR:CE2	2.22	0.75
1:M:159:GLY:CA	3:M:1301:DTP:O1A	2.35	0.75
1:C:875:VAL:HG12	1:C:915:CYS:HA	1.68	0.75
1:C:920:VAL:HG12	1:C:921:MET:H	1.51	0.75
1:C:931:GLN:O	1:C:932:GLU:CB	2.35	0.75
1:E:146:GLU:OE1	1:E:147:PRO:HD3	1.87	0.75
1:E:427:ASP:OD2	1:E:434:ARG:HG2	1.86	0.75
1:E:551:ASN:O	1:E:555:LEU:HB2	1.87	0.75
1:E:597:TRP:CZ2	1:E:603:ILE:HG12	2.22	0.75
1:G:928:VAL:HG12	1:G:937:VAL:CA	2.17	0.75
1:K:179:PRO:HD2	1:K:237:ARG:NH1	1.88	0.75
1:K:551:ASN:O	1:K:555:LEU:HB2	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:948:LEU:CD1	1:K:957:ASP:OD2	2.34	0.75
1:M:119:VAL:HG12	1:M:184:TRP:CE3	2.21	0.75
1:M:283:GLU:OE2	1:M:284:SER:N	2.19	0.75
1:M:513:LYS:HD3	1:M:522:LEU:HG	1.69	0.75
1:M:1194:SER:CB	1:M:1202:TRP:CE3	2.69	0.75
1:A:927:ASP:O	1:A:938:LEU:CB	2.24	0.74
1:A:1193:ILE:HG12	1:A:1201:TRP:CD1	2.22	0.74
1:C:159:GLY:CA	3:C:1301:DTP:O1A	2.35	0.74
1:C:179:PRO:CG	1:C:237:ARG:NH1	2.49	0.74
1:C:513:LYS:HD3	1:C:522:LEU:HG	1.69	0.74
1:C:1193:ILE:HG12	1:C:1201:TRP:CD1	2.22	0.74
1:C:1247:LEU:HD12	1:C:1248:GLU:N	2.02	0.74
1:E:409:GLU:HG3	1:G:340:TYR:CZ	2.22	0.74
1:E:637:LYS:HA	1:E:660:VAL:HG23	1.67	0.74
1:E:1048:LYS:H	1:E:1062:SER:HA	1.51	0.74
1:E:1176:HIS:O	1:E:1197:GLY:HA3	1.86	0.74
1:E:1183:LEU:HD12	1:E:1183:LEU:N	2.02	0.74
1:G:119:VAL:HG12	1:G:184:TRP:CE3	2.21	0.74
1:G:127:VAL:HG21	1:G:294:ILE:HG13	1.69	0.74
1:G:881:HIS:CE1	1:G:901:SER:CB	2.70	0.74
1:G:1171:GLU:CG	1:G:1172:GLY:H	2.00	0.74
1:I:637:LYS:HA	1:I:660:VAL:HG23	1.67	0.74
1:K:483:TRP:O	1:K:487:LEU:HB3	1.87	0.74
1:M:450:CYS:O	1:M:453:LEU:HG	1.85	0.74
1:M:1199:ILE:HD11	1:M:1232:TYR:CE2	2.22	0.74
1:M:1217:GLY:C	1:M:1218:THR:HG23	2.05	0.74
1:A:551:ASN:O	1:A:555:LEU:HB2	1.87	0.74
1:C:127:VAL:HG21	1:C:294:ILE:HG13	1.69	0.74
1:C:881:HIS:ND1	1:C:901:SER:CB	2.48	0.74
1:C:1176:HIS:O	1:C:1197:GLY:HA3	1.86	0.74
1:E:513:LYS:HD3	1:E:522:LEU:HG	1.69	0.74
1:E:1247:LEU:HD12	1:E:1248:GLU:N	2.02	0.74
1:G:409:GLU:HG3	1:I:340:TYR:CZ	2.22	0.74
1:G:1193:ILE:HG12	1:G:1201:TRP:CD1	2.22	0.74
1:I:146:GLU:OE1	1:I:147:PRO:HD3	1.87	0.74
1:I:317:CYS:SG	1:I:323:VAL:HG12	2.27	0.74
1:K:127:VAL:HG21	1:K:294:ILE:HG13	1.69	0.74
1:K:1183:LEU:HD12	1:K:1183:LEU:N	2.02	0.74
1:M:928:VAL:HG12	1:M:937:VAL:CA	2.17	0.74
1:M:1176:HIS:O	1:M:1197:GLY:HA3	1.86	0.74
1:A:920:VAL:HG12	1:A:921:MET:H	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:483:TRP:O	1:E:487:LEU:HB3	1.88	0.74
1:E:1193:ILE:HG12	1:E:1201:TRP:CD1	2.22	0.74
2:F:18:HIS:CE1	2:F:29:GLY:CA	2.66	0.74
2:F:18:HIS:CE1	2:F:30:PRO:HD2	2.22	0.74
1:G:948:LEU:CD1	1:G:957:ASP:OD2	2.34	0.74
1:G:1176:HIS:O	1:G:1197:GLY:HA3	1.86	0.74
1:I:513:LYS:HD3	1:I:522:LEU:HG	1.69	0.74
1:I:595:LEU:CD1	1:I:1201:TRP:CH2	2.67	0.74
1:K:137:GLN:HE21	1:K:173:LEU:HB3	1.53	0.74
1:K:1176:HIS:HB3	1:K:1218:THR:HG21	1.67	0.74
1:M:881:HIS:CE1	1:M:901:SER:CB	2.70	0.74
1:A:119:VAL:HG12	1:A:184:TRP:CE3	2.21	0.74
1:A:146:GLU:OE1	1:A:147:PRO:HD3	1.87	0.74
1:A:322:LEU:CD1	1:A:364:LEU:CD2	2.41	0.74
1:A:359:TYR:CE1	1:A:361:TYR:HD1	2.06	0.74
1:A:453:LEU:CD1	1:A:454:GLN:HE21	1.97	0.74
1:A:561:PRO:HB3	1:A:1214:TYR:CE2	2.23	0.74
1:C:119:VAL:HG12	1:C:184:TRP:CE3	2.21	0.74
1:C:483:TRP:O	1:C:487:LEU:HB3	1.87	0.74
1:G:862:TYR:H	1:G:884:TRP:HD1	1.31	0.74
1:I:1176:HIS:O	1:I:1197:GLY:HA3	1.87	0.74
1:I:1193:ILE:HG12	1:I:1201:TRP:CD1	2.22	0.74
1:K:179:PRO:CG	1:K:237:ARG:NH1	2.49	0.74
1:K:513:LYS:HD3	1:K:522:LEU:HG	1.69	0.74
1:K:1193:ILE:HG12	1:K:1201:TRP:CD1	2.22	0.74
1:M:137:GLN:HE21	1:M:173:LEU:HB3	1.53	0.74
1:M:364:LEU:CD1	1:M:368:MET:HE1	2.17	0.74
1:M:597:TRP:CZ2	1:M:603:ILE:HG12	2.22	0.74
1:M:862:TYR:H	1:M:884:TRP:HD1	1.31	0.74
1:M:866:LEU:HD22	1:M:914:VAL:CG1	2.18	0.74
1:M:1194:SER:HG	1:M:1202:TRP:HE3	1.35	0.74
1:A:283:GLU:OE2	1:A:284:SER:N	2.19	0.74
1:C:137:GLN:HE21	1:C:173:LEU:HB3	1.53	0.74
1:K:554:LEU:HD11	1:K:1214:TYR:CE1	2.21	0.74
1:K:928:VAL:HG12	1:K:937:VAL:CA	2.17	0.74
1:A:317:CYS:SG	1:A:323:VAL:HG12	2.27	0.74
1:A:461:ILE:CD1	1:A:491:MET:HG2	2.16	0.74
1:A:928:VAL:HG12	1:A:937:VAL:CA	2.17	0.74
1:G:1247:LEU:HD12	1:G:1248:GLU:N	2.02	0.74
1:I:322:LEU:CD1	1:I:364:LEU:CD2	2.42	0.74
1:I:551:ASN:O	1:I:555:LEU:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:285:SER:O	1:K:319:GLY:CA	2.29	0.74
1:M:427:ASP:OD2	1:M:434:ARG:HG2	1.86	0.74
1:M:453:LEU:CD1	1:M:454:GLN:HE21	1.97	0.74
1:M:1176:HIS:HB3	1:M:1218:THR:HG21	1.67	0.74
1:A:595:LEU:CG	1:A:1244:LEU:HD13	2.18	0.74
1:A:862:TYR:HE2	1:A:881:HIS:H	1.28	0.74
1:A:881:HIS:CE1	1:A:901:SER:CB	2.70	0.74
1:A:931:GLN:O	1:A:932:GLU:CB	2.35	0.74
1:A:1247:LEU:HD12	1:A:1248:GLU:N	2.02	0.74
1:G:137:GLN:HE21	1:G:173:LEU:HB3	1.53	0.74
1:G:881:HIS:ND1	1:G:901:SER:CB	2.48	0.74
1:I:597:TRP:CZ2	1:I:603:ILE:HG12	2.22	0.74
1:I:1183:LEU:HD12	1:I:1183:LEU:N	2.02	0.74
2:L:18:HIS:CE1	2:L:30:PRO:HD2	2.22	0.74
1:M:146:GLU:OE1	1:M:147:PRO:HD3	1.87	0.74
1:M:317:CYS:SG	1:M:323:VAL:HG12	2.27	0.74
1:M:1193:ILE:HG12	1:M:1201:TRP:CD1	2.22	0.74
1:A:483:TRP:O	1:A:487:LEU:HB3	1.87	0.74
1:A:603:ILE:HD13	1:A:1242:TYR:CE1	2.23	0.74
1:C:317:CYS:SG	1:C:323:VAL:HG12	2.27	0.74
1:C:551:ASN:O	1:C:555:LEU:HB2	1.87	0.74
1:C:866:LEU:HD22	1:C:914:VAL:CG1	2.18	0.74
1:E:317:CYS:SG	1:E:323:VAL:HG12	2.27	0.74
1:E:520:ALA:HB2	1:E:648:GLU:HA	1.69	0.74
1:E:595:LEU:CG	1:E:1244:LEU:HD13	2.18	0.74
1:G:595:LEU:CG	1:G:1244:LEU:HD13	2.18	0.74
1:G:603:ILE:HD13	1:G:1242:TYR:CE1	2.23	0.74
1:G:1183:LEU:N	1:G:1183:LEU:HD12	2.02	0.74
1:I:137:GLN:HE21	1:I:173:LEU:HB3	1.53	0.74
1:K:595:LEU:CD1	1:K:1201:TRP:CH2	2.67	0.74
1:M:595:LEU:CG	1:M:1244:LEU:HD13	2.18	0.74
1:A:122:ARG:HH21	1:A:126:PHE:HZ	1.24	0.74
1:A:127:VAL:HG21	1:A:294:ILE:HG13	1.69	0.74
1:A:457:HIS:CG	1:A:493:SER:CB	2.64	0.74
1:A:1199:ILE:HD11	1:A:1232:TYR:CE2	2.22	0.74
1:A:1217:GLY:C	1:A:1218:THR:HG23	2.05	0.74
1:C:146:GLU:OE1	1:C:147:PRO:HD3	1.87	0.74
1:C:409:GLU:HG3	1:E:340:TYR:CZ	2.22	0.74
1:C:595:LEU:CG	1:C:1244:LEU:HD13	2.18	0.74
1:C:637:LYS:HA	1:C:660:VAL:HG23	1.67	0.74
1:E:558:GLN:CB	1:E:559:PRO:HD3	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:931:GLN:O	1:G:932:GLU:CB	2.35	0.74
1:K:283:GLU:OE2	1:K:284:SER:N	2.19	0.74
1:K:535:GLU:HA	1:K:538:CYS:SG	2.28	0.74
1:K:603:ILE:HD13	1:K:1242:TYR:CE1	2.23	0.74
1:A:1167:PRO:CB	1:A:1202:TRP:CD2	2.63	0.74
1:C:359:TYR:CE1	1:C:361:TYR:HD1	2.06	0.74
1:E:866:LEU:HD22	1:E:914:VAL:CG1	2.18	0.74
1:E:881:HIS:ND1	1:E:901:SER:CB	2.48	0.74
1:E:928:VAL:HG12	1:E:937:VAL:CA	2.17	0.74
1:E:948:LEU:CD1	1:E:957:ASP:OD2	2.34	0.74
1:G:561:PRO:O	1:G:563:ILE:HD13	1.86	0.74
1:G:924:GLN:HB3	1:G:1238:LEU:CG	2.17	0.74
1:I:595:LEU:CG	1:I:1244:LEU:HD13	2.18	0.74
1:I:657:GLU:HG2	1:I:680:LYS:HZ1	1.51	0.74
1:I:920:VAL:HG12	1:I:921:MET:H	1.51	0.74
1:K:359:TYR:CE1	1:K:361:TYR:HD1	2.06	0.74
1:K:595:LEU:CG	1:K:1244:LEU:HD13	2.18	0.74
1:K:658:ASP:OD2	1:K:677:VAL:CB	2.34	0.74
1:K:866:LEU:HD22	1:K:914:VAL:CG1	2.18	0.74
1:M:931:GLN:O	1:M:932:GLU:CB	2.35	0.74
1:A:557:ARG:HG3	1:A:559:PRO:HD2	1.70	0.73
1:A:866:LEU:HD22	1:A:914:VAL:CG1	2.18	0.73
1:A:924:GLN:HB3	1:A:1238:LEU:CG	2.17	0.73
1:A:1183:LEU:HD12	1:A:1183:LEU:N	2.02	0.73
2:B:18:HIS:CE1	2:B:29:GLY:CA	2.66	0.73
1:C:283:GLU:OE2	1:C:284:SER:N	2.19	0.73
1:C:558:GLN:CB	1:C:559:PRO:HD3	2.18	0.73
1:E:561:PRO:O	1:E:563:ILE:HD13	1.86	0.73
1:E:603:ILE:HD13	1:E:1242:TYR:CE1	2.23	0.73
1:E:881:HIS:CE1	1:E:901:SER:CB	2.70	0.73
1:E:924:GLN:HB3	1:E:1238:LEU:CG	2.17	0.73
1:G:359:TYR:CE1	1:G:361:TYR:HD1	2.06	0.73
1:G:453:LEU:CD1	1:G:454:GLN:HE21	1.97	0.73
1:G:551:ASN:O	1:G:555:LEU:HB2	1.87	0.73
1:G:558:GLN:CB	1:G:559:PRO:HD3	2.18	0.73
1:G:866:LEU:HD22	1:G:914:VAL:CG1	2.18	0.73
1:G:920:VAL:HG12	1:G:921:MET:H	1.51	0.73
1:I:409:GLU:HG3	1:K:340:TYR:CZ	2.22	0.73
1:K:146:GLU:OE1	1:K:147:PRO:HD3	1.87	0.73
1:K:317:CYS:SG	1:K:323:VAL:HG12	2.27	0.73
1:K:597:TRP:CZ2	1:K:603:ILE:HG12	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:657:GLU:HG2	1:K:680:LYS:HZ2	1.50	0.73
1:M:558:GLN:CB	1:M:559:PRO:HD3	2.18	0.73
1:M:561:PRO:HB3	1:M:1214:TYR:CE2	2.23	0.73
1:M:658:ASP:OD2	1:M:677:VAL:CB	2.34	0.73
1:M:1247:LEU:HD12	1:M:1248:GLU:N	2.02	0.73
2:N:18:HIS:CE1	2:N:30:PRO:HD2	2.22	0.73
1:C:561:PRO:HB3	1:C:1214:TYR:CE2	2.23	0.73
1:C:881:HIS:CE1	1:C:901:SER:CB	2.70	0.73
1:E:561:PRO:HB3	1:E:1214:TYR:CE2	2.23	0.73
1:G:561:PRO:HB3	1:G:1214:TYR:CE2	2.23	0.73
1:G:928:VAL:HG22	1:G:1224:HIS:CE1	2.23	0.73
1:I:558:GLN:CB	1:I:559:PRO:HD3	2.18	0.73
1:K:558:GLN:CB	1:K:559:PRO:HD3	2.18	0.73
1:K:1247:LEU:HD12	1:K:1248:GLU:N	2.02	0.73
1:C:334:PHE:HB2	1:C:337:ARG:HD2	1.71	0.73
1:G:264:THR:OG1	1:G:265:ARG:N	2.16	0.73
1:I:127:VAL:HG21	1:I:294:ILE:HG13	1.69	0.73
1:I:483:TRP:O	1:I:487:LEU:HB3	1.87	0.73
1:I:924:GLN:HB3	1:I:1238:LEU:CG	2.17	0.73
1:I:1247:LEU:HD12	1:I:1248:GLU:N	2.02	0.73
1:K:322:LEU:CD1	1:K:364:LEU:CD2	2.42	0.73
1:K:928:VAL:HG22	1:K:1224:HIS:CE1	2.23	0.73
1:M:359:TYR:CE1	1:M:361:TYR:HD1	2.06	0.73
1:M:483:TRP:O	1:M:487:LEU:HB3	1.87	0.73
1:M:557:ARG:HG3	1:M:559:PRO:HD2	1.70	0.73
1:M:928:VAL:HG22	1:M:1224:HIS:CE1	2.23	0.73
1:A:558:GLN:CB	1:A:559:PRO:HD3	2.18	0.73
1:G:535:GLU:HA	1:G:538:CYS:SG	2.28	0.73
1:I:928:VAL:HG12	1:I:937:VAL:CA	2.17	0.73
1:I:1171:GLU:CG	1:I:1172:GLY:H	2.00	0.73
1:K:862:TYR:H	1:K:884:TRP:HD1	1.30	0.73
1:M:582:LEU:HD23	1:M:582:LEU:O	1.89	0.73
1:M:924:GLN:HB3	1:M:1238:LEU:CG	2.17	0.73
1:A:535:GLU:HA	1:A:538:CYS:SG	2.28	0.73
1:A:582:LEU:O	1:A:582:LEU:HD23	1.89	0.73
1:C:457:HIS:CG	1:C:493:SER:CB	2.64	0.73
1:C:603:ILE:HD13	1:C:1242:TYR:CE1	2.23	0.73
1:C:643:LYS:HD3	1:C:646:THR:HG22	1.71	0.73
1:E:283:GLU:OE2	1:E:284:SER:N	2.19	0.73
1:E:453:LEU:CD1	1:E:454:GLN:HE21	1.97	0.73
1:I:582:LEU:O	1:I:582:LEU:HD23	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:931:GLN:O	1:I:932:GLU:CB	2.35	0.73
1:M:595:LEU:CD1	1:M:1201:TRP:CH2	2.67	0.73
1:A:137:GLN:HE21	1:A:173:LEU:HB3	1.53	0.73
1:A:480:CYS:HA	1:A:483:TRP:HD1	1.54	0.73
1:C:285:SER:O	1:C:319:GLY:CA	2.29	0.73
1:C:643:LYS:HD3	1:C:646:THR:CG2	2.19	0.73
1:E:359:TYR:CE1	1:E:361:TYR:HD1	2.06	0.73
1:G:1233:VAL:HG12	1:G:1243:ILE:HA	1.71	0.73
1:I:866:LEU:HD22	1:I:914:VAL:CG1	2.18	0.73
1:I:1233:VAL:HG12	1:I:1243:ILE:HA	1.71	0.73
1:K:561:PRO:HB3	1:K:1214:TYR:CE2	2.23	0.73
1:K:881:HIS:CE1	1:K:899:THR:O	2.42	0.73
1:K:924:GLN:HB3	1:K:1238:LEU:CG	2.17	0.73
1:K:931:GLN:O	1:K:932:GLU:CB	2.35	0.73
1:K:1233:VAL:HG12	1:K:1243:ILE:HA	1.71	0.73
1:M:551:ASN:O	1:M:555:LEU:HB2	1.87	0.73
1:M:988:LEU:HD11	1:M:993:ASN:HA	1.70	0.73
1:C:902:ASP:CG	2:D:72:LYS:NZ	2.42	0.73
2:D:18:HIS:CE1	2:D:30:PRO:HD2	2.22	0.73
1:E:535:GLU:HA	1:E:538:CYS:SG	2.28	0.73
1:E:643:LYS:HD3	1:E:646:THR:CG2	2.19	0.73
1:E:1233:VAL:HG12	1:E:1243:ILE:HA	1.71	0.73
1:G:520:ALA:HB2	1:G:648:GLU:HA	1.69	0.73
1:G:643:LYS:HD3	1:G:646:THR:CG2	2.19	0.73
2:H:18:HIS:CE1	2:H:30:PRO:HD2	2.22	0.73
1:I:643:LYS:HD3	1:I:646:THR:CG2	2.19	0.73
1:I:928:VAL:HG22	1:I:1224:HIS:CE1	2.23	0.73
1:M:535:GLU:HA	1:M:538:CYS:SG	2.28	0.73
1:A:643:LYS:HD3	1:A:646:THR:CG2	2.19	0.73
1:E:147:PRO:CG	1:G:121:GLN:OE1	2.37	0.73
1:E:881:HIS:CE1	1:E:899:THR:O	2.42	0.73
1:I:535:GLU:HA	1:I:538:CYS:SG	2.28	0.73
1:I:643:LYS:HD3	1:I:646:THR:HG22	1.71	0.73
1:M:494:ALA:O	1:M:495:LYS:HB2	1.89	0.73
1:C:147:PRO:CG	1:E:121:GLN:OE1	2.37	0.73
1:C:535:GLU:HA	1:C:538:CYS:SG	2.28	0.73
1:C:928:VAL:HG12	1:C:937:VAL:CA	2.17	0.73
1:C:1171:GLU:CG	1:C:1172:GLY:H	2.00	0.73
1:E:334:PHE:HB2	1:E:337:ARG:HD2	1.71	0.73
1:E:928:VAL:HG22	1:E:1224:HIS:CE1	2.23	0.73
1:G:146:GLU:OE1	1:G:147:PRO:HD3	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:147:PRO:CG	1:I:121:GLN:OE1	2.37	0.73
1:I:359:TYR:CE1	1:I:361:TYR:HD1	2.06	0.73
1:I:561:PRO:HB3	1:I:1214:TYR:CE2	2.23	0.73
1:K:881:HIS:CE1	1:K:901:SER:CB	2.70	0.73
1:K:1225:VAL:HG11	1:K:1229:PHE:CE1	2.24	0.73
1:A:461:ILE:HD13	1:A:491:MET:HG2	1.71	0.73
1:A:595:LEU:CD1	1:A:1201:TRP:CH2	2.67	0.73
1:C:520:ALA:HB2	1:C:648:GLU:HA	1.69	0.73
1:C:582:LEU:O	1:C:582:LEU:HD23	1.89	0.73
1:C:862:TYR:N	1:C:884:TRP:CD1	2.57	0.73
1:C:924:GLN:HB3	1:C:1238:LEU:CG	2.17	0.73
1:C:948:LEU:CD1	1:C:957:ASP:OD2	2.34	0.73
1:C:1233:VAL:HG12	1:C:1243:ILE:HA	1.71	0.73
1:E:127:VAL:HG21	1:E:294:ILE:HG13	1.69	0.73
1:E:480:CYS:HA	1:E:483:TRP:HD1	1.54	0.73
1:E:862:TYR:H	1:E:884:TRP:HD1	1.31	0.73
1:E:902:ASP:CG	2:F:72:LYS:NZ	2.42	0.73
1:G:483:TRP:O	1:G:487:LEU:HB3	1.87	0.73
1:G:643:LYS:HD3	1:G:646:THR:HG22	1.71	0.73
1:G:988:LEU:HD11	1:G:993:ASN:HA	1.70	0.73
1:I:603:ILE:HD13	1:I:1242:TYR:CE1	2.23	0.73
1:I:1225:VAL:HG11	1:I:1229:PHE:CE1	2.24	0.73
2:J:18:HIS:CE1	2:J:30:PRO:HD2	2.22	0.73
1:K:551:ASN:O	1:K:555:LEU:CB	2.37	0.73
1:M:1171:GLU:CG	1:M:1172:GLY:H	2.00	0.73
1:M:1233:VAL:HG12	1:M:1243:ILE:HA	1.71	0.73
1:A:285:SER:O	1:A:319:GLY:CA	2.29	0.72
1:A:334:PHE:HB2	1:A:337:ARG:HD2	1.71	0.72
1:A:409:GLU:HG3	1:C:340:TYR:CZ	2.22	0.72
1:A:881:HIS:CE1	1:A:899:THR:O	2.42	0.72
1:C:557:ARG:HG3	1:C:559:PRO:HD2	1.70	0.72
1:E:137:GLN:HE21	1:E:173:LEU:HB3	1.53	0.72
1:G:537:ASP:O	1:G:540:VAL:N	2.22	0.72
1:G:928:VAL:CG1	1:G:937:VAL:HG12	2.19	0.72
1:I:902:ASP:CG	2:J:72:LYS:NZ	2.42	0.72
1:I:1194:SER:OG	1:I:1202:TRP:CE3	2.42	0.72
1:K:409:GLU:HG3	1:M:340:TYR:CZ	2.23	0.72
1:M:551:ASN:O	1:M:555:LEU:CB	2.37	0.72
1:C:881:HIS:CE1	1:C:899:THR:O	2.42	0.72
1:C:928:VAL:HG22	1:C:1224:HIS:CE1	2.23	0.72
1:E:862:TYR:N	1:E:884:TRP:CD1	2.57	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1225:VAL:HG11	1:E:1229:PHE:CE1	2.24	0.72
1:G:881:HIS:CE1	1:G:899:THR:O	2.42	0.72
1:I:285:SER:O	1:I:319:GLY:CA	2.29	0.72
1:I:494:ALA:O	1:I:495:LYS:HB2	1.89	0.72
1:I:1027:ILE:HB	1:I:1040:LEU:HB2	1.72	0.72
1:K:902:ASP:CG	2:L:72:LYS:NZ	2.42	0.72
1:K:988:LEU:HD11	1:K:993:ASN:HA	1.70	0.72
1:M:461:ILE:HD13	1:M:491:MET:HG2	1.70	0.72
1:M:603:ILE:HD13	1:M:1242:TYR:CE1	2.23	0.72
1:A:340:TYR:CZ	1:M:409:GLU:HG3	2.22	0.72
1:A:988:LEU:HD11	1:A:993:ASN:HA	1.70	0.72
1:C:461:ILE:HD13	1:C:491:MET:HG2	1.70	0.72
1:C:1225:VAL:HG11	1:C:1229:PHE:CE1	2.24	0.72
1:G:1027:ILE:HB	1:G:1040:LEU:HB2	1.72	0.72
1:I:147:PRO:CG	1:K:121:GLN:OE1	2.37	0.72
1:M:520:ALA:HB2	1:M:648:GLU:HA	1.69	0.72
1:A:928:VAL:HG22	1:A:1224:HIS:CE1	2.23	0.72
1:A:1233:VAL:HG12	1:A:1243:ILE:HA	1.71	0.72
1:C:453:LEU:CD1	1:C:454:GLN:HE21	1.97	0.72
1:E:537:ASP:O	1:E:540:VAL:N	2.22	0.72
1:E:582:LEU:HD23	1:E:582:LEU:O	1.89	0.72
1:E:931:GLN:O	1:E:932:GLU:CB	2.35	0.72
1:I:334:PHE:HB2	1:I:337:ARG:HD2	1.71	0.72
1:I:1167:PRO:CB	1:I:1202:TRP:CD2	2.63	0.72
1:M:881:HIS:CE1	1:M:899:THR:O	2.42	0.72
1:A:121:GLN:OE1	1:M:147:PRO:CG	2.37	0.72
1:A:494:ALA:O	1:A:495:LYS:HB2	1.89	0.72
1:A:1171:GLU:CG	1:A:1172:GLY:H	2.00	0.72
1:A:1218:THR:O	1:A:1236:ASP:CB	2.32	0.72
1:C:596:GLU:O	1:C:1244:LEU:HA	1.89	0.72
1:C:1218:THR:O	1:C:1236:ASP:CB	2.32	0.72
1:E:928:VAL:CG1	1:E:937:VAL:HG12	2.19	0.72
1:G:862:TYR:N	1:G:884:TRP:CD1	2.57	0.72
1:G:1194:SER:OG	1:G:1202:TRP:CE3	2.42	0.72
1:G:1225:VAL:HG11	1:G:1229:PHE:CE1	2.24	0.72
1:I:137:GLN:HG2	1:I:173:LEU:CD2	2.20	0.72
1:I:520:ALA:HB2	1:I:648:GLU:HA	1.69	0.72
1:I:881:HIS:CE1	1:I:901:SER:CB	2.70	0.72
1:K:643:LYS:HD3	1:K:646:THR:CG2	2.19	0.72
1:K:1194:SER:OG	1:K:1202:TRP:CE3	2.42	0.72
1:M:480:CYS:HA	1:M:483:TRP:HD1	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1225:VAL:HG11	1:A:1229:PHE:CE1	2.24	0.72
1:E:461:ILE:HD13	1:E:491:MET:HG2	1.70	0.72
1:E:596:GLU:O	1:E:1244:LEU:HA	1.89	0.72
1:E:988:LEU:HD11	1:E:993:ASN:HA	1.70	0.72
1:E:1194:SER:HG	1:E:1202:TRP:HE3	1.36	0.72
1:I:557:ARG:HG3	1:I:559:PRO:HD2	1.70	0.72
1:K:480:CYS:HA	1:K:483:TRP:HD1	1.54	0.72
1:K:553:HIS:HB2	1:K:610:VAL:CG1	2.20	0.72
1:K:596:GLU:O	1:K:1244:LEU:HA	1.89	0.72
1:K:1027:ILE:HB	1:K:1040:LEU:HB2	1.72	0.72
1:M:322:LEU:HD12	1:M:364:LEU:HD23	0.74	0.72
1:A:596:GLU:O	1:A:1244:LEU:HA	1.89	0.72
1:A:862:TYR:N	1:A:884:TRP:CD1	2.57	0.72
1:E:551:ASN:O	1:E:555:LEU:CB	2.37	0.72
1:E:643:LYS:HD3	1:E:646:THR:HG22	1.71	0.72
1:E:1027:ILE:HB	1:E:1040:LEU:HB2	1.71	0.72
1:G:551:ASN:O	1:G:555:LEU:CB	2.37	0.72
1:I:453:LEU:CD1	1:I:454:GLN:HE21	1.97	0.72
1:I:553:HIS:HB2	1:I:610:VAL:CG1	2.20	0.72
1:I:881:HIS:CE1	1:I:899:THR:O	2.42	0.72
1:I:928:VAL:CG1	1:I:937:VAL:HG12	2.20	0.72
1:I:988:LEU:HD11	1:I:993:ASN:HA	1.70	0.72
1:K:582:LEU:O	1:K:582:LEU:HD23	1.89	0.72
1:M:537:ASP:O	1:M:540:VAL:N	2.22	0.72
1:M:1218:THR:O	1:M:1236:ASP:CB	2.32	0.72
1:M:1225:VAL:HG11	1:M:1229:PHE:CE1	2.24	0.72
1:A:902:ASP:CG	2:B:72:LYS:NZ	2.42	0.72
1:A:1109:ALA:HB3	1:A:1123:LEU:HB2	1.72	0.72
1:G:381:ASP:O	1:G:384:THR:CG2	2.36	0.72
1:G:461:ILE:HD13	1:G:491:MET:HG2	1.70	0.72
1:I:537:ASP:O	1:I:540:VAL:N	2.22	0.72
1:I:596:GLU:O	1:I:1244:LEU:HA	1.89	0.72
1:K:137:GLN:HG2	1:K:173:LEU:CD2	2.20	0.72
1:M:127:VAL:HG21	1:M:294:ILE:HG13	1.69	0.72
1:M:902:ASP:CG	2:N:72:LYS:NZ	2.42	0.72
1:A:147:PRO:CG	1:C:121:GLN:OE1	2.37	0.72
1:A:537:ASP:O	1:A:540:VAL:N	2.22	0.72
1:C:537:ASP:O	1:C:540:VAL:N	2.22	0.72
1:C:551:ASN:O	1:C:555:LEU:CB	2.37	0.72
1:E:285:SER:O	1:E:319:GLY:CA	2.29	0.72
1:G:149:TRP:CZ3	1:G:273:VAL:HG11	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:582:LEU:HD23	1:G:582:LEU:O	1.89	0.72
1:G:902:ASP:CG	2:H:72:LYS:NZ	2.42	0.72
1:I:882:LEU:CD2	1:I:882:LEU:N	2.39	0.72
1:M:927:ASP:O	1:M:938:LEU:CB	2.24	0.72
1:M:948:LEU:CD1	1:M:957:ASP:OD2	2.34	0.72
1:M:1109:ALA:HB3	1:M:1123:LEU:HB2	1.72	0.72
1:A:643:LYS:HD3	1:A:646:THR:HG22	1.71	0.72
1:A:1194:SER:HG	1:A:1202:TRP:HE3	1.37	0.72
1:E:457:HIS:CG	1:E:493:SER:CB	2.64	0.72
1:E:557:ARG:HG3	1:E:559:PRO:HD2	1.70	0.72
1:K:334:PHE:HB2	1:K:337:ARG:HD2	1.71	0.72
1:K:461:ILE:HD13	1:K:491:MET:HG2	1.70	0.72
1:K:537:ASP:O	1:K:540:VAL:N	2.22	0.72
1:K:557:ARG:HG3	1:K:559:PRO:HD2	1.70	0.72
1:K:1109:ALA:HB3	1:K:1123:LEU:HB2	1.72	0.72
1:M:643:LYS:HD3	1:M:646:THR:CG2	2.19	0.72
1:A:558:GLN:HB3	1:A:559:PRO:CD	2.20	0.71
1:C:1027:ILE:HB	1:C:1040:LEU:HB2	1.71	0.71
1:E:149:TRP:CZ3	1:E:273:VAL:HG11	2.25	0.71
1:E:1194:SER:OG	1:E:1202:TRP:CE3	2.42	0.71
1:G:557:ARG:HG3	1:G:559:PRO:HD2	1.70	0.71
1:I:461:ILE:HD13	1:I:491:MET:HG2	1.70	0.71
1:I:551:ASN:O	1:I:555:LEU:CB	2.37	0.71
1:K:147:PRO:CG	1:M:121:GLN:OE1	2.37	0.71
1:M:334:PHE:HB2	1:M:337:ARG:HD2	1.71	0.71
1:M:540:VAL:CG1	1:M:575:GLU:HB3	2.19	0.71
1:M:553:HIS:HB2	1:M:610:VAL:CG1	2.20	0.71
1:M:1194:SER:OG	1:M:1202:TRP:CE3	2.42	0.71
1:A:551:ASN:O	1:A:555:LEU:CB	2.37	0.71
1:G:553:HIS:HB2	1:G:610:VAL:CG1	2.20	0.71
1:I:266:ASP:N	1:I:266:ASP:OD1	2.24	0.71
1:M:317:CYS:C	1:M:318:LYS:HG2	2.11	0.71
1:M:596:GLU:O	1:M:1244:LEU:HA	1.89	0.71
1:E:610:VAL:HG22	1:E:907:ARG:HG3	1.73	0.71
1:G:596:GLU:O	1:G:1244:LEU:HA	1.89	0.71
1:I:149:TRP:CZ3	1:I:273:VAL:HG11	2.25	0.71
1:I:816:ALA:HB3	1:I:846:CYS:SG	2.30	0.71
1:K:494:ALA:O	1:K:495:LYS:HB2	1.89	0.71
1:K:643:LYS:HD3	1:K:646:THR:HG22	1.71	0.71
1:K:862:TYR:N	1:K:884:TRP:CD1	2.57	0.71
1:M:1027:ILE:HB	1:M:1040:LEU:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:317:CYS:C	1:C:318:LYS:HG2	2.11	0.71
1:C:553:HIS:HB2	1:C:610:VAL:CG1	2.20	0.71
1:E:494:ALA:O	1:E:495:LYS:HB2	1.89	0.71
1:E:553:HIS:HB2	1:E:610:VAL:CG1	2.20	0.71
1:G:334:PHE:HB2	1:G:337:ARG:HD2	1.71	0.71
1:G:1187:PRO:CG	1:G:1229:PHE:CG	2.74	0.71
1:I:480:CYS:HA	1:I:483:TRP:HD1	1.54	0.71
1:K:332:ARG:HH11	1:K:332:ARG:HB2	1.55	0.71
1:A:816:ALA:HB3	1:A:846:CYS:SG	2.30	0.71
1:A:1027:ILE:HB	1:A:1040:LEU:HB2	1.71	0.71
1:E:558:GLN:HB3	1:E:559:PRO:CD	2.20	0.71
1:E:1218:THR:O	1:E:1236:ASP:CB	2.32	0.71
1:G:494:ALA:O	1:G:495:LYS:HB2	1.89	0.71
1:G:816:ALA:HB3	1:G:846:CYS:SG	2.30	0.71
1:I:920:VAL:C	1:I:921:MET:HG2	2.11	0.71
1:K:920:VAL:C	1:K:921:MET:HG2	2.11	0.71
1:K:928:VAL:CG1	1:K:937:VAL:HG12	2.19	0.71
1:M:881:HIS:ND1	1:M:901:SER:CB	2.48	0.71
1:A:1187:PRO:CG	1:A:1229:PHE:CG	2.74	0.71
1:C:149:TRP:CZ3	1:C:273:VAL:HG11	2.25	0.71
1:C:155:MET:HE3	1:C:441:GLN:HE21	1.55	0.71
1:C:480:CYS:HA	1:C:483:TRP:HD1	1.54	0.71
1:C:816:ALA:HB3	1:C:846:CYS:SG	2.30	0.71
1:E:266:ASP:OD1	1:E:266:ASP:N	2.24	0.71
1:E:381:ASP:O	1:E:384:THR:CG2	2.36	0.71
1:G:920:VAL:C	1:G:921:MET:HG2	2.11	0.71
1:M:137:GLN:HG2	1:M:173:LEU:CD2	2.20	0.71
1:A:146:GLU:OE1	1:A:147:PRO:HD2	1.91	0.71
1:C:1109:ALA:HB3	1:C:1123:LEU:HB2	1.72	0.71
1:E:816:ALA:HB3	1:E:846:CYS:SG	2.30	0.71
1:G:332:ARG:HH11	1:G:332:ARG:HB2	1.55	0.71
1:G:610:VAL:HG22	1:G:907:ARG:HG3	1.73	0.71
1:I:1109:ALA:HB3	1:I:1123:LEU:HB2	1.72	0.71
1:K:146:GLU:OE1	1:K:147:PRO:HD2	1.91	0.71
1:K:816:ALA:HB3	1:K:846:CYS:SG	2.30	0.71
1:A:553:HIS:HB2	1:A:610:VAL:CG1	2.20	0.71
1:C:610:VAL:HG22	1:C:907:ARG:HG3	1.73	0.71
1:C:1187:PRO:CG	1:C:1229:PHE:CG	2.74	0.71
1:G:927:ASP:O	1:G:938:LEU:CB	2.24	0.71
1:K:881:HIS:ND1	1:K:901:SER:CB	2.48	0.71
1:C:604:THR:H	1:C:1240:ILE:CD1	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:317:CYS:C	1:E:318:LYS:HG2	2.11	0.71
1:E:1109:ALA:HB3	1:E:1123:LEU:HB2	1.72	0.71
1:G:480:CYS:HA	1:G:483:TRP:HD1	1.54	0.71
1:M:146:GLU:OE1	1:M:147:PRO:HD2	1.91	0.71
1:A:604:THR:H	1:A:1240:ILE:CD1	2.04	0.71
1:C:266:ASP:OD1	1:C:266:ASP:N	2.24	0.71
1:E:604:THR:H	1:E:1240:ILE:CD1	2.04	0.71
1:G:1109:ALA:HB3	1:G:1123:LEU:HB2	1.72	0.71
1:I:381:ASP:O	1:I:384:THR:CG2	2.36	0.71
1:K:149:TRP:CZ3	1:K:273:VAL:HG11	2.25	0.71
1:K:266:ASP:OD1	1:K:266:ASP:N	2.24	0.71
1:K:604:THR:H	1:K:1240:ILE:CD1	2.04	0.71
1:M:604:THR:H	1:M:1240:ILE:CD1	2.04	0.71
1:A:924:GLN:OE1	1:A:924:GLN:N	2.24	0.70
1:A:1194:SER:OG	1:A:1202:TRP:CE3	2.42	0.70
1:C:374:MET:HA	1:C:374:MET:HE2	1.73	0.70
1:C:1194:SER:OG	1:C:1202:TRP:CE3	2.42	0.70
1:E:1187:PRO:CG	1:E:1229:PHE:CG	2.74	0.70
1:G:604:THR:H	1:G:1240:ILE:CD1	2.04	0.70
1:G:641:VAL:HB	1:G:651:LEU:CB	2.21	0.70
1:K:558:GLN:HB3	1:K:559:PRO:CD	2.20	0.70
1:K:641:VAL:HB	1:K:651:LEU:CB	2.21	0.70
1:K:657:GLU:HG2	1:K:680:LYS:HZ1	1.54	0.70
1:M:543:ASN:OD1	1:M:574:SER:CB	2.39	0.70
1:M:641:VAL:HB	1:M:651:LEU:CB	2.21	0.70
1:M:643:LYS:HD3	1:M:646:THR:HG22	1.71	0.70
1:M:920:VAL:C	1:M:921:MET:HG2	2.11	0.70
1:A:543:ASN:OD1	1:A:574:SER:CB	2.39	0.70
1:A:595:LEU:HD23	1:A:1246:THR:HB	1.74	0.70
1:A:597:TRP:CH2	1:A:603:ILE:CG1	2.75	0.70
1:C:988:LEU:HD11	1:C:993:ASN:HA	1.70	0.70
1:C:1187:PRO:HG3	1:C:1229:PHE:CB	2.21	0.70
1:E:179:PRO:HD2	1:E:237:ARG:NH1	1.88	0.70
1:E:920:VAL:C	1:E:921:MET:HG2	2.11	0.70
1:I:146:GLU:OE1	1:I:147:PRO:HD2	1.91	0.70
1:I:604:THR:H	1:I:1240:ILE:CD1	2.04	0.70
1:M:597:TRP:CH2	1:M:603:ILE:CG1	2.74	0.70
1:G:322:LEU:HD12	1:G:364:LEU:HD23	0.74	0.70
1:G:597:TRP:CH2	1:G:603:ILE:CG1	2.74	0.70
1:G:1213:PHE:CE2	1:G:1215:THR:HG22	2.27	0.70
1:I:862:TYR:HE2	1:I:881:HIS:H	1.28	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1187:PRO:CG	1:I:1229:PHE:CG	2.74	0.70
1:I:1218:THR:O	1:I:1236:ASP:CB	2.32	0.70
1:M:558:GLN:HB3	1:M:559:PRO:CD	2.20	0.70
1:M:816:ALA:HB3	1:M:846:CYS:SG	2.30	0.70
1:A:266:ASP:N	1:A:266:ASP:OD1	2.24	0.70
1:C:179:PRO:HG2	1:C:237:ARG:NH1	2.07	0.70
1:C:558:GLN:HB3	1:C:559:PRO:CD	2.20	0.70
1:C:928:VAL:CG1	1:C:937:VAL:HG12	2.19	0.70
1:E:1187:PRO:HG3	1:E:1229:PHE:CB	2.21	0.70
1:A:610:VAL:HG22	1:A:907:ARG:HG3	1.73	0.70
1:A:1187:PRO:HG3	1:A:1229:PHE:CB	2.21	0.70
1:E:461:ILE:CD1	1:E:491:MET:CG	2.70	0.70
1:G:639:LEU:O	1:G:653:ILE:CG2	2.39	0.70
1:I:427:ASP:HB3	1:I:434:ARG:HG2	1.73	0.70
1:I:578:GLN:O	1:I:578:GLN:NE2	2.25	0.70
1:I:641:VAL:HB	1:I:651:LEU:CB	2.21	0.70
1:I:862:TYR:N	1:I:884:TRP:CD1	2.57	0.70
1:K:179:PRO:HG2	1:K:237:ARG:NH1	2.07	0.70
1:K:543:ASN:OD1	1:K:574:SER:CB	2.39	0.70
1:K:597:TRP:CH2	1:K:603:ILE:CG1	2.74	0.70
1:K:1187:PRO:HG3	1:K:1229:PHE:CB	2.21	0.70
1:A:1213:PHE:CE2	1:A:1215:THR:HG22	2.27	0.70
1:C:427:ASP:HB3	1:C:434:ARG:HG2	1.73	0.70
1:E:1171:GLU:CG	1:E:1172:GLY:H	2.00	0.70
1:G:155:MET:HE3	1:G:441:GLN:HE21	1.57	0.70
1:G:1187:PRO:HG3	1:G:1229:PHE:CB	2.21	0.70
1:I:597:TRP:CH2	1:I:603:ILE:CG1	2.74	0.70
1:K:317:CYS:C	1:K:318:LYS:HG2	2.11	0.70
1:K:427:ASP:HB3	1:K:434:ARG:HG2	1.73	0.70
1:K:473:LEU:CD1	1:K:480:CYS:CB	2.65	0.70
1:K:881:HIS:HE1	1:K:899:THR:O	1.75	0.70
1:K:1171:GLU:CG	1:K:1172:GLY:H	2.00	0.70
1:M:149:TRP:CZ3	1:M:273:VAL:HG11	2.25	0.70
1:M:461:ILE:CD1	1:M:491:MET:CG	2.70	0.70
1:M:595:LEU:HD23	1:M:1246:THR:HB	1.74	0.70
1:M:881:HIS:HE1	1:M:899:THR:O	1.75	0.70
1:A:179:PRO:HG2	1:A:237:ARG:NH1	2.07	0.70
1:A:461:ILE:CD1	1:A:491:MET:CG	2.70	0.70
1:C:461:ILE:CD1	1:C:491:MET:CG	2.70	0.70
1:C:543:ASN:OD1	1:C:574:SER:CB	2.39	0.70
1:C:641:VAL:HB	1:C:651:LEU:HB3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:639:LEU:O	1:E:653:ILE:CG2	2.39	0.70
1:G:285:SER:O	1:G:319:GLY:CA	2.29	0.70
1:G:461:ILE:CD1	1:G:491:MET:CG	2.70	0.70
1:I:1213:PHE:CE2	1:I:1215:THR:HG22	2.27	0.70
1:K:322:LEU:HD12	1:K:364:LEU:HD23	0.74	0.70
1:K:344:GLN:O	1:K:347:ASN:HB2	1.91	0.70
1:K:1143:ALA:CB	1:K:1183:LEU:HD22	2.22	0.70
1:K:1213:PHE:CE2	1:K:1215:THR:HG22	2.27	0.70
1:M:294:ILE:CG2	1:M:324:VAL:HG11	2.22	0.70
1:A:137:GLN:HG2	1:A:173:LEU:CD2	2.20	0.70
1:A:149:TRP:CZ3	1:A:273:VAL:HG11	2.25	0.70
1:A:540:VAL:CG1	1:A:575:GLU:HB3	2.19	0.70
1:A:641:VAL:HB	1:A:651:LEU:CB	2.21	0.70
1:A:1143:ALA:CB	1:A:1183:LEU:HD22	2.22	0.70
1:C:494:ALA:O	1:C:495:LYS:HB2	1.89	0.70
1:C:924:GLN:OE1	1:C:924:GLN:N	2.24	0.70
1:E:1213:PHE:CE2	1:E:1215:THR:HG22	2.27	0.70
1:G:266:ASP:N	1:G:266:ASP:OD1	2.24	0.70
1:G:317:CYS:C	1:G:318:LYS:HG2	2.11	0.70
1:G:543:ASN:OD1	1:G:574:SER:CB	2.39	0.70
1:I:364:LEU:CD1	1:I:368:MET:HE1	2.21	0.70
1:I:617:ALA:O	1:I:635:ALA:N	2.25	0.70
1:I:657:GLU:HG2	1:I:680:LYS:HZ2	1.53	0.70
1:I:1187:PRO:HG3	1:I:1229:PHE:CB	2.21	0.70
1:K:461:ILE:CD1	1:K:491:MET:CG	2.70	0.70
1:K:578:GLN:NE2	1:K:578:GLN:O	2.25	0.70
1:K:924:GLN:OE1	1:K:924:GLN:N	2.24	0.70
1:M:862:TYR:N	1:M:884:TRP:CD1	2.57	0.70
1:M:1184:CYS:HB3	1:M:1193:ILE:HB	1.74	0.70
1:M:1187:PRO:CG	1:M:1229:PHE:CG	2.74	0.70
1:M:1213:PHE:CE2	1:M:1215:THR:HG22	2.27	0.70
1:A:317:CYS:C	1:A:318:LYS:HG2	2.11	0.70
1:A:427:ASP:HB3	1:A:434:ARG:HG2	1.73	0.70
1:A:473:LEU:CD1	1:A:480:CYS:CB	2.65	0.70
1:C:146:GLU:OE1	1:C:147:PRO:HD2	1.91	0.70
1:C:344:GLN:O	1:C:347:ASN:HB2	1.91	0.70
1:C:597:TRP:CH2	1:C:603:ILE:CG1	2.75	0.70
1:E:322:LEU:CD1	1:E:364:LEU:CD2	2.41	0.70
1:E:641:VAL:HB	1:E:651:LEU:HB3	1.74	0.70
1:E:1184:CYS:HB3	1:E:1193:ILE:HB	1.74	0.70
1:G:473:LEU:CD1	1:G:480:CYS:CB	2.65	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:595:LEU:HD23	1:G:1246:THR:HB	1.74	0.70
1:I:317:CYS:C	1:I:318:LYS:HG2	2.11	0.70
1:I:344:GLN:O	1:I:347:ASN:HB2	1.91	0.70
1:I:461:ILE:CD1	1:I:491:MET:CG	2.70	0.70
1:M:928:VAL:CG1	1:M:937:VAL:HG12	2.19	0.70
1:M:1187:PRO:HG3	1:M:1229:PHE:CB	2.21	0.70
1:A:920:VAL:C	1:A:921:MET:HG2	2.11	0.70
1:A:1194:SER:OG	1:A:1202:TRP:HE3	1.75	0.70
1:C:381:ASP:O	1:C:384:THR:CG2	2.36	0.70
1:C:920:VAL:C	1:C:921:MET:HG2	2.11	0.70
1:E:641:VAL:HB	1:E:651:LEU:CB	2.21	0.70
1:G:578:GLN:NE2	1:G:578:GLN:O	2.25	0.70
1:G:1184:CYS:HB3	1:G:1193:ILE:HB	1.74	0.70
1:I:332:ARG:HH11	1:I:332:ARG:HB2	1.55	0.70
1:I:558:GLN:HB3	1:I:559:PRO:CD	2.20	0.70
1:I:1212:THR:HG23	1:I:1213:PHE:N	2.07	0.70
1:K:1194:SER:OG	1:K:1202:TRP:HE3	1.75	0.70
1:M:344:GLN:O	1:M:347:ASN:HB2	1.91	0.70
1:M:1212:THR:HG23	1:M:1213:PHE:N	2.07	0.70
1:A:928:VAL:CG1	1:A:937:VAL:HG12	2.19	0.69
1:A:1212:THR:HG23	1:A:1213:PHE:N	2.07	0.69
1:C:409:GLU:O	1:E:337:ARG:NH2	2.25	0.69
1:C:633:CYS:CB	1:C:660:VAL:HG11	2.22	0.69
1:C:881:HIS:HE1	1:C:899:THR:O	1.75	0.69
1:C:902:ASP:HB3	2:D:72:LYS:HZ2	1.57	0.69
1:C:1212:THR:HG23	1:C:1213:PHE:N	2.07	0.69
1:E:427:ASP:HB3	1:E:434:ARG:HG2	1.73	0.69
1:G:179:PRO:HG2	1:G:237:ARG:NH1	2.07	0.69
1:G:633:CYS:CB	1:G:660:VAL:HG11	2.22	0.69
1:G:1143:ALA:HB3	1:G:1183:LEU:HD22	1.74	0.69
1:I:610:VAL:HG22	1:I:907:ARG:HG3	1.73	0.69
1:K:595:LEU:HD23	1:K:1246:THR:HB	1.74	0.69
1:M:155:MET:HE3	1:M:441:GLN:HE21	1.56	0.69
1:M:179:PRO:HG2	1:M:237:ARG:NH1	2.07	0.69
1:M:639:LEU:O	1:M:653:ILE:CG2	2.39	0.69
1:M:902:ASP:HB3	2:N:72:LYS:HZ2	1.56	0.69
1:M:1143:ALA:CB	1:M:1183:LEU:HD22	2.22	0.69
1:A:344:GLN:O	1:A:347:ASN:HB2	1.91	0.69
1:C:1213:PHE:CE2	1:C:1215:THR:HG22	2.27	0.69
1:E:332:ARG:HH11	1:E:332:ARG:HB2	1.55	0.69
1:E:344:GLN:O	1:E:347:ASN:HB2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:543:ASN:OD1	1:E:574:SER:CB	2.39	0.69
1:E:595:LEU:HD23	1:E:1246:THR:HB	1.74	0.69
1:E:597:TRP:CH2	1:E:603:ILE:CG1	2.75	0.69
1:E:1166:ALA:N	1:E:1167:PRO:HD3	2.08	0.69
1:E:1187:PRO:HD3	1:E:1229:PHE:CD1	2.28	0.69
1:G:294:ILE:CG2	1:G:324:VAL:HG11	2.22	0.69
1:G:322:LEU:CD1	1:G:364:LEU:CD2	2.41	0.69
1:G:641:VAL:HB	1:G:651:LEU:HB3	1.74	0.69
1:G:1194:SER:OG	1:G:1202:TRP:HE3	1.75	0.69
1:I:394:LYS:HD3	1:I:434:ARG:HG3	1.74	0.69
1:I:641:VAL:HB	1:I:651:LEU:HB3	1.74	0.69
1:I:881:HIS:HE1	1:I:899:THR:O	1.75	0.69
1:I:1143:ALA:CB	1:I:1183:LEU:HD22	2.22	0.69
1:K:364:LEU:CD1	1:K:368:MET:HE1	2.20	0.69
1:K:1184:CYS:HB3	1:K:1193:ILE:HB	1.74	0.69
1:M:1171:GLU:HG3	1:M:1172:GLY:N	2.06	0.69
1:A:409:GLU:HG2	1:A:410:GLU:N	2.07	0.69
1:A:1184:CYS:HB3	1:A:1193:ILE:HB	1.74	0.69
1:C:578:GLN:O	1:C:578:GLN:NE2	2.25	0.69
1:E:127:VAL:HG23	1:E:294:ILE:HG13	1.74	0.69
1:E:578:GLN:NE2	1:E:578:GLN:O	2.25	0.69
1:E:924:GLN:N	1:E:924:GLN:OE1	2.24	0.69
1:G:558:GLN:HB3	1:G:559:PRO:CD	2.20	0.69
1:I:179:PRO:HG2	1:I:237:ARG:NH1	2.07	0.69
1:I:409:GLU:HG2	1:I:410:GLU:N	2.07	0.69
1:I:1187:PRO:HD3	1:I:1229:PHE:CD1	2.28	0.69
1:K:639:LEU:O	1:K:653:ILE:CG2	2.39	0.69
1:M:332:ARG:HH11	1:M:332:ARG:HB2	1.55	0.69
1:A:641:VAL:HB	1:A:651:LEU:HB3	1.74	0.69
1:C:639:LEU:O	1:C:653:ILE:CG2	2.39	0.69
1:C:1187:PRO:HD3	1:C:1229:PHE:CD1	2.28	0.69
1:E:155:MET:CE	1:E:441:GLN:NE2	2.55	0.69
1:E:409:GLU:O	1:G:337:ARG:NH2	2.25	0.69
1:E:881:HIS:HE1	1:E:899:THR:O	1.75	0.69
1:G:394:LYS:HD3	1:G:434:ARG:HG3	1.74	0.69
1:G:427:ASP:HB3	1:G:434:ARG:HG2	1.73	0.69
1:G:1166:ALA:N	1:G:1167:PRO:HD3	2.08	0.69
1:G:1187:PRO:HD3	1:G:1229:PHE:CD1	2.28	0.69
1:I:553:HIS:NE2	1:I:554:LEU:HB2	2.08	0.69
1:I:639:LEU:O	1:I:653:ILE:CG2	2.39	0.69
1:K:1187:PRO:CG	1:K:1229:PHE:CG	2.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:ILE:CG2	1:A:324:VAL:HG11	2.22	0.69
1:C:137:GLN:HG2	1:C:173:LEU:CD2	2.20	0.69
1:C:473:LEU:CD1	1:C:480:CYS:CB	2.65	0.69
1:C:554:LEU:O	1:C:554:LEU:HD22	1.93	0.69
1:C:1194:SER:OG	1:C:1202:TRP:HE3	1.75	0.69
1:E:1143:ALA:HB3	1:E:1183:LEU:HD22	1.75	0.69
1:G:1212:THR:HG23	1:G:1213:PHE:N	2.07	0.69
1:I:409:GLU:O	1:K:337:ARG:NH2	2.25	0.69
1:I:543:ASN:OD1	1:I:574:SER:CB	2.39	0.69
1:K:394:LYS:HD3	1:K:434:ARG:HG3	1.74	0.69
1:K:427:ASP:CB	1:K:434:ARG:HG2	2.23	0.69
1:K:553:HIS:NE2	1:K:554:LEU:HB2	2.08	0.69
1:K:641:VAL:HB	1:K:651:LEU:HB3	1.74	0.69
1:M:409:GLU:HG2	1:M:410:GLU:N	2.07	0.69
1:M:553:HIS:NE2	1:M:554:LEU:HB2	2.08	0.69
1:M:578:GLN:NE2	1:M:578:GLN:O	2.25	0.69
1:M:610:VAL:HG22	1:M:907:ARG:HG3	1.73	0.69
1:M:641:VAL:HB	1:M:651:LEU:HB3	1.74	0.69
1:A:337:ARG:NH2	1:M:409:GLU:O	2.25	0.69
1:A:394:LYS:HD3	1:A:434:ARG:HG3	1.75	0.69
1:C:641:VAL:HB	1:C:651:LEU:CB	2.21	0.69
1:C:1184:CYS:HB3	1:C:1193:ILE:HB	1.74	0.69
1:E:595:LEU:HG	1:E:1201:TRP:CH2	2.28	0.69
1:E:633:CYS:CB	1:E:660:VAL:HG11	2.22	0.69
1:G:146:GLU:OE1	1:G:147:PRO:HD2	1.91	0.69
1:G:344:GLN:O	1:G:347:ASN:HB2	1.91	0.69
1:G:427:ASP:CB	1:G:434:ARG:HG2	2.23	0.69
1:I:427:ASP:CB	1:I:434:ARG:HG2	2.23	0.69
1:I:1184:CYS:HB3	1:I:1193:ILE:HB	1.74	0.69
1:K:409:GLU:HG2	1:K:410:GLU:N	2.07	0.69
1:K:1187:PRO:HD3	1:K:1229:PHE:CD1	2.28	0.69
1:K:1212:THR:HG23	1:K:1213:PHE:N	2.07	0.69
1:M:394:LYS:HD3	1:M:434:ARG:HG3	1.74	0.69
1:A:578:GLN:O	1:A:578:GLN:NE2	2.25	0.69
1:A:633:CYS:CB	1:A:660:VAL:HG11	2.22	0.69
1:A:639:LEU:O	1:A:653:ILE:CG2	2.39	0.69
1:A:867:TRP:HA	1:A:874:LYS:HA	1.75	0.69
1:C:867:TRP:HA	1:C:874:LYS:HA	1.75	0.69
1:C:1166:ALA:N	1:C:1167:PRO:HD3	2.08	0.69
1:G:457:HIS:CG	1:G:493:SER:CB	2.64	0.69
1:I:554:LEU:O	1:I:554:LEU:HD22	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:595:LEU:HG	1:I:1201:TRP:CH2	2.28	0.69
1:K:610:VAL:HG22	1:K:907:ARG:HG3	1.73	0.69
1:M:427:ASP:HB3	1:M:434:ARG:HG2	1.73	0.69
1:A:332:ARG:HH11	1:A:332:ARG:HB2	1.55	0.69
1:A:881:HIS:HE1	1:A:899:THR:O	1.75	0.69
1:C:394:LYS:HD3	1:C:434:ARG:HG3	1.74	0.69
1:C:1143:ALA:CB	1:C:1183:LEU:HD22	2.22	0.69
1:E:322:LEU:HD12	1:E:364:LEU:HD23	0.74	0.69
1:E:394:LYS:HD3	1:E:434:ARG:HG3	1.74	0.69
1:E:427:ASP:CB	1:E:434:ARG:HG2	2.23	0.69
1:E:1143:ALA:CB	1:E:1183:LEU:HD22	2.22	0.69
1:G:155:MET:CE	1:G:441:GLN:NE2	2.55	0.69
1:G:409:GLU:HG2	1:G:410:GLU:N	2.07	0.69
1:G:1143:ALA:CB	1:G:1183:LEU:HD22	2.22	0.69
1:G:1171:GLU:HG3	1:G:1172:GLY:N	2.06	0.69
1:G:1240:ILE:HG23	1:G:1241:LEU:H	1.56	0.69
1:I:1143:ALA:HB3	1:I:1183:LEU:HD22	1.75	0.69
1:I:1171:GLU:HG3	1:I:1172:GLY:N	2.06	0.69
1:K:554:LEU:O	1:K:554:LEU:HD22	1.93	0.69
1:K:1166:ALA:N	1:K:1167:PRO:HD3	2.08	0.69
1:K:1187:PRO:CG	1:K:1229:PHE:CB	2.71	0.69
1:K:1199:ILE:HD13	1:K:1232:TYR:HE2	1.58	0.69
1:M:427:ASP:CB	1:M:434:ARG:HG2	2.23	0.69
1:M:473:LEU:CD1	1:M:480:CYS:CB	2.65	0.69
1:M:553:HIS:CB	1:M:610:VAL:HG11	2.21	0.69
1:M:554:LEU:O	1:M:554:LEU:HD13	1.93	0.69
1:M:617:ALA:O	1:M:635:ALA:N	2.24	0.69
1:M:1187:PRO:HD3	1:M:1229:PHE:CD1	2.27	0.69
1:C:595:LEU:HD23	1:C:1246:THR:HB	1.74	0.69
1:C:1187:PRO:CG	1:C:1229:PHE:CB	2.71	0.69
1:E:146:GLU:OE1	1:E:147:PRO:HD2	1.91	0.69
1:E:179:PRO:HG2	1:E:237:ARG:NH1	2.07	0.69
1:E:554:LEU:O	1:E:554:LEU:HD22	1.93	0.69
1:G:657:GLU:HG2	1:G:680:LYS:HZ2	1.54	0.69
1:I:1240:ILE:HG23	1:I:1241:LEU:H	1.56	0.69
1:K:554:LEU:O	1:K:554:LEU:HD13	1.93	0.69
1:K:1002:HIS:NE2	1:K:1028:GLN:OE1	2.26	0.69
1:M:633:CYS:CB	1:M:660:VAL:HG11	2.22	0.69
1:M:1166:ALA:N	1:M:1167:PRO:HD3	2.08	0.69
1:M:1187:PRO:CG	1:M:1229:PHE:CB	2.71	0.69
1:A:553:HIS:NE2	1:A:554:LEU:HB2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:554:LEU:O	1:A:554:LEU:HD22	1.93	0.69
1:A:881:HIS:ND1	1:A:901:SER:CB	2.48	0.69
1:C:554:LEU:O	1:C:554:LEU:HD13	1.93	0.69
1:G:924:GLN:OE1	1:G:924:GLN:N	2.24	0.69
1:I:595:LEU:HD23	1:I:1246:THR:HB	1.74	0.69
1:K:553:HIS:CB	1:K:610:VAL:HG11	2.21	0.69
1:M:1194:SER:OG	1:M:1202:TRP:HE3	1.75	0.69
1:A:617:ALA:O	1:A:635:ALA:N	2.24	0.68
1:A:1187:PRO:HD3	1:A:1229:PHE:CD1	2.28	0.68
1:C:332:ARG:HH11	1:C:332:ARG:HB2	1.55	0.68
1:C:595:LEU:HG	1:C:1201:TRP:CH2	2.28	0.68
1:E:875:VAL:CG1	1:E:915:CYS:HA	2.24	0.68
1:E:1167:PRO:CB	1:E:1202:TRP:CE3	2.74	0.68
1:G:595:LEU:HG	1:G:1201:TRP:CH2	2.28	0.68
1:K:127:VAL:HG23	1:K:294:ILE:HG13	1.74	0.68
1:K:153:HIS:HA	1:K:160:LYS:HD2	1.76	0.68
1:K:633:CYS:CB	1:K:660:VAL:HG11	2.22	0.68
1:A:127:VAL:HG23	1:A:294:ILE:HG13	1.74	0.68
1:A:374:MET:HA	1:A:374:MET:HE2	1.75	0.68
1:A:554:LEU:O	1:A:554:LEU:HD13	1.93	0.68
1:E:617:ALA:O	1:E:635:ALA:N	2.24	0.68
1:E:1187:PRO:CG	1:E:1229:PHE:CB	2.71	0.68
1:G:1200:LYS:HE3	1:G:1211:GLN:HB2	1.76	0.68
1:I:473:LEU:CD1	1:I:480:CYS:CB	2.65	0.68
1:I:1199:ILE:HD13	1:I:1232:TYR:HE2	1.58	0.68
1:K:294:ILE:CG2	1:K:324:VAL:HG11	2.22	0.68
1:M:266:ASP:OD1	1:M:266:ASP:N	2.24	0.68
1:A:153:HIS:HA	1:A:160:LYS:HD2	1.76	0.68
1:C:617:ALA:O	1:C:635:ALA:N	2.24	0.68
1:E:1200:LYS:HE3	1:E:1211:GLN:HB2	1.76	0.68
1:G:617:ALA:O	1:G:635:ALA:N	2.24	0.68
1:G:881:HIS:HE1	1:G:899:THR:O	1.75	0.68
1:I:153:HIS:HA	1:I:160:LYS:HD2	1.76	0.68
1:I:554:LEU:O	1:I:554:LEU:HD13	1.93	0.68
1:I:860:SER:C	1:I:861:GLN:HG2	2.14	0.68
1:M:1167:PRO:O	1:M:1202:TRP:NE1	2.26	0.68
1:A:431:LYS:HZ2	1:C:336:ASN:HB3	1.58	0.68
1:A:553:HIS:CB	1:A:610:VAL:HG11	2.22	0.68
1:C:409:GLU:HG2	1:C:410:GLU:N	2.07	0.68
1:C:1143:ALA:HB3	1:C:1183:LEU:HD22	1.74	0.68
1:G:554:LEU:O	1:G:554:LEU:HD13	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1194:SER:OG	1:I:1202:TRP:HE3	1.75	0.68
1:K:595:LEU:CG	1:K:1201:TRP:CH2	2.77	0.68
1:K:600:LYS:H	1:K:600:LYS:HD3	1.59	0.68
1:M:127:VAL:HG23	1:M:294:ILE:HG13	1.74	0.68
1:M:867:TRP:HA	1:M:874:LYS:HA	1.75	0.68
1:A:875:VAL:CG1	1:A:915:CYS:HA	2.24	0.68
1:A:1002:HIS:NE2	1:A:1028:GLN:OE1	2.26	0.68
1:C:153:HIS:HA	1:C:160:LYS:HD2	1.76	0.68
1:C:553:HIS:NE2	1:C:554:LEU:HB2	2.07	0.68
1:C:1002:HIS:NE2	1:C:1028:GLN:OE1	2.26	0.68
1:E:1002:HIS:NE2	1:E:1028:GLN:OE1	2.26	0.68
1:E:1167:PRO:O	1:E:1202:TRP:NE1	2.26	0.68
1:G:553:HIS:CB	1:G:610:VAL:HG11	2.22	0.68
1:I:633:CYS:CB	1:I:660:VAL:HG11	2.22	0.68
1:I:1166:ALA:N	1:I:1167:PRO:HD3	2.08	0.68
1:M:153:HIS:HA	1:M:160:LYS:HD2	1.76	0.68
1:M:1002:HIS:NE2	1:M:1028:GLN:OE1	2.26	0.68
1:M:1220:LEU:CD2	1:M:1234:THR:OG1	2.40	0.68
1:A:1187:PRO:CG	1:A:1229:PHE:CB	2.71	0.68
1:A:1199:ILE:CD1	1:A:1232:TYR:CE2	2.77	0.68
1:C:540:VAL:CG1	1:C:575:GLU:HB3	2.19	0.68
1:C:875:VAL:CG1	1:C:915:CYS:HA	2.24	0.68
1:E:374:MET:HA	1:E:374:MET:HE2	1.76	0.68
1:E:927:ASP:O	1:E:938:LEU:CB	2.24	0.68
1:G:1002:HIS:NE2	1:G:1028:GLN:OE1	2.26	0.68
1:I:127:VAL:HG23	1:I:294:ILE:HG13	1.74	0.68
1:K:119:VAL:HG12	1:K:184:TRP:HE3	1.59	0.68
1:K:595:LEU:HG	1:K:1201:TRP:CH2	2.28	0.68
1:K:1167:PRO:O	1:K:1202:TRP:NE1	2.26	0.68
1:M:359:TYR:CE1	1:M:361:TYR:CD1	2.82	0.68
1:A:359:TYR:CE1	1:A:361:TYR:CD1	2.82	0.68
1:A:427:ASP:CB	1:A:434:ARG:HG2	2.23	0.68
1:A:595:LEU:CG	1:A:1201:TRP:CH2	2.77	0.68
1:A:1167:PRO:O	1:A:1202:TRP:NE1	2.26	0.68
2:B:33:HIS:CE1	2:B:104:GLU:O	2.46	0.68
1:C:127:VAL:HG23	1:C:294:ILE:HG13	1.74	0.68
1:C:427:ASP:CB	1:C:434:ARG:HG2	2.23	0.68
1:C:860:SER:C	1:C:861:GLN:CG	2.62	0.68
1:E:137:GLN:HG2	1:E:173:LEU:CD2	2.20	0.68
1:E:359:TYR:CE1	1:E:361:TYR:CD1	2.82	0.68
1:E:554:LEU:O	1:E:554:LEU:HD13	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1167:PRO:O	1:G:1202:TRP:NE1	2.26	0.68
1:G:1187:PRO:CG	1:G:1229:PHE:CB	2.71	0.68
1:I:1002:HIS:NE2	1:I:1028:GLN:OE1	2.26	0.68
1:I:1187:PRO:CG	1:I:1229:PHE:CB	2.71	0.68
1:K:239:LEU:HD12	1:K:239:LEU:C	2.15	0.68
1:K:1240:ILE:HG23	1:K:1241:LEU:H	1.56	0.68
1:M:860:SER:C	1:M:861:GLN:CG	2.62	0.68
1:A:322:LEU:HD12	1:A:364:LEU:HD23	0.74	0.68
1:A:595:LEU:HG	1:A:1201:TRP:CH2	2.28	0.68
1:C:1167:PRO:O	1:C:1202:TRP:NE1	2.26	0.68
1:C:1200:LYS:HE3	1:C:1211:GLN:HB2	1.76	0.68
1:E:636:ASP:O	1:E:637:LYS:CG	2.42	0.68
1:G:409:GLU:O	1:I:337:ARG:NH2	2.25	0.68
1:G:554:LEU:O	1:G:554:LEU:HD22	1.93	0.68
1:G:597:TRP:CD1	1:G:1243:ILE:O	2.43	0.68
1:I:860:SER:C	1:I:861:GLN:CG	2.62	0.68
1:I:1094:SER:O	1:I:1095:HIS:HB2	1.94	0.68
1:K:1143:ALA:HB3	1:K:1183:LEU:HD22	1.74	0.68
1:M:554:LEU:O	1:M:554:LEU:HD22	1.93	0.68
1:M:595:LEU:CG	1:M:1201:TRP:CH2	2.77	0.68
1:M:595:LEU:HG	1:M:1201:TRP:CH2	2.28	0.68
1:A:1166:ALA:N	1:A:1167:PRO:HD3	2.08	0.68
1:C:636:ASP:O	1:C:637:LYS:CG	2.42	0.68
1:C:1220:LEU:CD2	1:C:1234:THR:OG1	2.40	0.68
1:E:294:ILE:CG2	1:E:324:VAL:HG11	2.22	0.68
1:E:595:LEU:CG	1:E:1201:TRP:CH2	2.77	0.68
1:E:1240:ILE:HG23	1:E:1241:LEU:H	1.56	0.68
1:G:239:LEU:HD12	1:G:239:LEU:C	2.15	0.68
1:G:553:HIS:NE2	1:G:554:LEU:HB2	2.07	0.68
1:G:600:LYS:HD3	1:G:600:LYS:H	1.59	0.68
1:G:860:SER:C	1:G:861:GLN:HG2	2.14	0.68
1:I:881:HIS:ND1	1:I:901:SER:CB	2.48	0.68
1:I:1200:LYS:HE3	1:I:1211:GLN:HB2	1.76	0.68
1:K:559:PRO:O	1:K:561:PRO:CD	2.42	0.68
1:M:1094:SER:O	1:M:1095:HIS:HB2	1.94	0.68
1:A:604:THR:N	1:A:1240:ILE:HD13	2.09	0.68
1:A:862:TYR:N	1:A:884:TRP:HD1	1.92	0.68
2:B:18:HIS:CE1	2:B:30:PRO:HD2	2.22	0.68
1:C:559:PRO:O	1:C:561:PRO:CD	2.42	0.68
1:C:1199:ILE:HD13	1:C:1232:TYR:HE2	1.58	0.68
1:E:553:HIS:NE2	1:E:554:LEU:HB2	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1212:THR:HG23	1:E:1213:PHE:N	2.07	0.68
1:G:1194:SER:HG	1:G:1202:TRP:HE3	1.38	0.68
1:G:1220:LEU:CG	1:G:1236:ASP:HB3	2.24	0.68
1:I:553:HIS:CB	1:I:610:VAL:HG11	2.21	0.68
1:I:875:VAL:CG1	1:I:915:CYS:HA	2.24	0.68
1:I:1167:PRO:O	1:I:1202:TRP:NE1	2.26	0.68
1:A:381:ASP:O	1:A:384:THR:CG2	2.36	0.67
1:A:561:PRO:HB3	1:A:1214:TYR:HD2	1.60	0.67
1:A:636:ASP:C	1:A:637:LYS:HG3	2.15	0.67
1:A:1143:ALA:HB3	1:A:1183:LEU:HD22	1.74	0.67
1:C:239:LEU:HD12	1:C:239:LEU:C	2.15	0.67
1:C:1220:LEU:CG	1:C:1236:ASP:HB3	2.25	0.67
1:E:409:GLU:HG2	1:E:410:GLU:N	2.07	0.67
1:E:604:THR:N	1:E:1240:ILE:HD13	2.09	0.67
1:E:867:TRP:HA	1:E:874:LYS:HA	1.75	0.67
1:G:636:ASP:O	1:G:637:LYS:CG	2.42	0.67
1:G:860:SER:C	1:G:861:GLN:CG	2.62	0.67
1:I:155:MET:CE	1:I:441:GLN:NE2	2.55	0.67
1:I:636:ASP:O	1:I:637:LYS:CG	2.42	0.67
1:I:1220:LEU:CG	1:I:1236:ASP:HB3	2.24	0.67
1:K:604:THR:N	1:K:1240:ILE:HD13	2.09	0.67
1:K:636:ASP:O	1:K:637:LYS:CG	2.42	0.67
1:C:359:TYR:CE1	1:C:361:TYR:CD1	2.82	0.67
1:E:153:HIS:HA	1:E:160:LYS:HD2	1.76	0.67
1:E:473:LEU:CD1	1:E:480:CYS:CB	2.65	0.67
1:E:553:HIS:CB	1:E:610:VAL:HG11	2.22	0.67
1:E:860:SER:C	1:E:861:GLN:HG2	2.14	0.67
1:E:1199:ILE:HD13	1:E:1232:TYR:HE2	1.58	0.67
1:E:1220:LEU:CG	1:E:1236:ASP:HB3	2.25	0.67
1:G:595:LEU:CG	1:G:1201:TRP:CH2	2.77	0.67
1:I:559:PRO:O	1:I:561:PRO:CD	2.42	0.67
1:I:636:ASP:O	1:I:637:LYS:CD	2.42	0.67
1:K:875:VAL:CG1	1:K:915:CYS:HA	2.24	0.67
1:M:559:PRO:O	1:M:561:PRO:CD	2.42	0.67
1:M:600:LYS:HD3	1:M:600:LYS:H	1.59	0.67
1:A:1199:ILE:HD13	1:A:1232:TYR:HE2	1.58	0.67
1:A:1220:LEU:CG	1:A:1236:ASP:HB3	2.25	0.67
1:C:322:LEU:HD12	1:C:364:LEU:HD23	0.74	0.67
1:E:486:PHE:O	1:E:489:TYR:HB3	1.94	0.67
1:E:636:ASP:O	1:E:637:LYS:CD	2.42	0.67
1:E:1220:LEU:CD2	1:E:1234:THR:OG1	2.40	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:875:VAL:CG1	1:G:915:CYS:HA	2.24	0.67
1:G:1199:ILE:HD13	1:G:1232:TYR:HE2	1.58	0.67
1:G:1220:LEU:CD2	1:G:1234:THR:OG1	2.40	0.67
1:I:1167:PRO:CB	1:I:1202:TRP:CE3	2.74	0.67
1:K:636:ASP:O	1:K:637:LYS:CD	2.42	0.67
1:K:927:ASP:O	1:K:938:LEU:CB	2.24	0.67
1:M:636:ASP:O	1:M:637:LYS:CG	2.42	0.67
1:M:636:ASP:C	1:M:637:LYS:HG3	2.15	0.67
1:M:1143:ALA:HB3	1:M:1183:LEU:HD22	1.74	0.67
1:A:155:MET:CE	1:A:441:GLN:NE2	2.55	0.67
1:A:636:ASP:O	1:A:637:LYS:CD	2.42	0.67
1:C:595:LEU:CG	1:C:1201:TRP:CH2	2.77	0.67
1:C:1240:ILE:HG23	1:C:1241:LEU:H	1.56	0.67
1:E:600:LYS:HD3	1:E:600:LYS:H	1.59	0.67
1:E:657:GLU:HG2	1:E:680:LYS:HZ1	1.55	0.67
1:G:153:HIS:HA	1:G:160:LYS:HD2	1.76	0.67
1:I:387:SER:HA	1:I:445:LEU:HD13	1.77	0.67
1:I:540:VAL:CG1	1:I:575:GLU:HB3	2.19	0.67
1:K:359:TYR:CE1	1:K:361:TYR:CD1	2.82	0.67
1:K:862:TYR:N	1:K:884:TRP:HD1	1.92	0.67
1:K:1220:LEU:CG	1:K:1236:ASP:HB3	2.25	0.67
2:L:33:HIS:CE1	2:L:104:GLU:O	2.46	0.67
1:M:119:VAL:HG12	1:M:184:TRP:HE3	1.59	0.67
1:M:924:GLN:N	1:M:924:GLN:OE1	2.24	0.67
1:M:1199:ILE:CD1	1:M:1232:TYR:CE2	2.77	0.67
1:A:260:ILE:O	1:A:260:ILE:CG1	2.43	0.67
1:A:860:SER:C	1:A:861:GLN:CG	2.62	0.67
1:A:860:SER:C	1:A:861:GLN:HG2	2.14	0.67
1:A:1094:SER:O	1:A:1095:HIS:HB2	1.94	0.67
1:A:1220:LEU:CD2	1:A:1234:THR:OG1	2.40	0.67
1:C:119:VAL:HG12	1:C:184:TRP:HE3	1.59	0.67
1:E:143:LEU:HD22	1:E:143:LEU:H	1.60	0.67
1:E:597:TRP:CH2	1:E:600:LYS:HA	2.30	0.67
1:G:127:VAL:HG23	1:G:294:ILE:HG13	1.73	0.67
1:G:559:PRO:O	1:G:561:PRO:CD	2.42	0.67
1:G:570:GLU:CD	1:G:571:PRO:HD2	2.15	0.67
1:I:143:LEU:H	1:I:143:LEU:HD22	1.60	0.67
1:I:928:VAL:CG2	1:I:1224:HIS:ND1	2.58	0.67
1:K:860:SER:C	1:K:861:GLN:CG	2.62	0.67
1:M:1220:LEU:CG	1:M:1236:ASP:HB3	2.25	0.67
1:A:143:LEU:H	1:A:143:LEU:HD22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:LEU:HD12	1:A:239:LEU:C	2.15	0.67
1:A:336:ASN:HB3	1:M:431:LYS:HZ2	1.60	0.67
1:A:486:PHE:O	1:A:489:TYR:HB3	1.94	0.67
1:A:570:GLU:CD	1:A:571:PRO:HD2	2.15	0.67
1:A:1185:PHE:O	1:A:1229:PHE:HZ	1.78	0.67
1:C:486:PHE:O	1:C:489:TYR:HB3	1.94	0.67
1:C:1171:GLU:HG3	1:C:1172:GLY:N	2.06	0.67
1:C:1220:LEU:HG	1:C:1236:ASP:CB	2.25	0.67
1:E:387:SER:HA	1:E:445:LEU:HD13	1.77	0.67
1:E:559:PRO:O	1:E:561:PRO:CD	2.42	0.67
1:E:570:GLU:CD	1:E:571:PRO:HD2	2.15	0.67
1:E:1199:ILE:CD1	1:E:1232:TYR:CE2	2.77	0.67
1:G:387:SER:HA	1:G:445:LEU:HD13	1.77	0.67
1:G:564:VAL:HG13	1:G:583:GLN:HG2	1.77	0.67
1:G:1220:LEU:HG	1:G:1236:ASP:CB	2.25	0.67
1:I:119:VAL:HG12	1:I:184:TRP:HE3	1.59	0.67
1:I:174:LEU:HD23	1:I:174:LEU:C	2.15	0.67
1:I:595:LEU:CG	1:I:1201:TRP:CH2	2.77	0.67
1:K:1178:GLY:O	1:K:1179:TRP:HB2	1.95	0.67
1:K:1185:PHE:HE1	1:K:1192:LEU:HD12	1.53	0.67
1:A:559:PRO:O	1:A:561:PRO:CD	2.42	0.67
1:A:600:LYS:H	1:A:600:LYS:HD3	1.59	0.67
1:C:553:HIS:CB	1:C:610:VAL:HG11	2.22	0.67
1:C:636:ASP:C	1:C:637:LYS:HG3	2.15	0.67
1:E:261:LEU:C	1:E:261:LEU:HD12	2.15	0.67
1:E:597:TRP:CD1	1:E:1243:ILE:O	2.43	0.67
1:I:261:LEU:C	1:I:261:LEU:HD12	2.15	0.67
1:I:359:TYR:CE1	1:I:361:TYR:CD1	2.82	0.67
1:M:174:LEU:HD23	1:M:174:LEU:C	2.15	0.67
1:M:875:VAL:CG1	1:M:915:CYS:HA	2.24	0.67
1:A:639:LEU:HG	1:A:653:ILE:CG2	2.25	0.67
1:C:387:SER:HA	1:C:445:LEU:HD13	1.77	0.67
1:C:570:GLU:CD	1:C:571:PRO:HD2	2.15	0.67
1:C:860:SER:C	1:C:861:GLN:HG2	2.14	0.67
1:G:359:TYR:CE1	1:G:361:TYR:CD1	2.82	0.67
1:G:535:GLU:O	1:G:538:CYS:HB2	1.95	0.67
1:G:540:VAL:CG1	1:G:575:GLU:HB3	2.19	0.67
1:G:1185:PHE:HE1	1:G:1192:LEU:HD12	1.53	0.67
1:I:564:VAL:HG13	1:I:583:GLN:HG2	1.77	0.67
1:K:174:LEU:HD23	1:K:174:LEU:C	2.15	0.67
1:K:261:LEU:C	1:K:261:LEU:HD12	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:561:PRO:HB3	1:M:1214:TYR:HD2	1.60	0.67
1:M:860:SER:C	1:M:861:GLN:HG2	2.14	0.67
1:A:636:ASP:O	1:A:637:LYS:CG	2.42	0.67
1:A:866:LEU:HD22	1:A:914:VAL:CB	2.25	0.67
1:G:174:LEU:HD23	1:G:174:LEU:C	2.15	0.67
1:G:1185:PHE:O	1:G:1229:PHE:HZ	1.78	0.67
1:I:486:PHE:O	1:I:489:TYR:HB3	1.94	0.67
1:I:1185:PHE:O	1:I:1229:PHE:HZ	1.78	0.67
1:K:387:SER:HA	1:K:445:LEU:HD13	1.77	0.67
1:K:403:LEU:HD12	1:K:403:LEU:C	2.15	0.67
1:K:867:TRP:HA	1:K:874:LYS:HA	1.75	0.67
1:K:928:VAL:CG2	1:K:1224:HIS:ND1	2.58	0.67
1:M:260:ILE:O	1:M:260:ILE:CG1	2.43	0.67
1:M:322:LEU:CD1	1:M:364:LEU:CD2	2.42	0.67
1:M:403:LEU:HD12	1:M:403:LEU:C	2.15	0.67
1:M:486:PHE:O	1:M:489:TYR:HB3	1.94	0.67
1:M:639:LEU:HG	1:M:653:ILE:CG2	2.25	0.67
1:A:140:LEU:HD13	1:A:140:LEU:C	2.16	0.67
1:A:1240:ILE:HG23	1:A:1241:LEU:H	1.56	0.67
1:E:496:MET:HA	1:E:496:MET:HE3	1.77	0.67
1:E:535:GLU:O	1:E:538:CYS:HB2	1.95	0.67
1:G:597:TRP:CH2	1:G:600:LYS:HA	2.30	0.67
1:G:867:TRP:HA	1:G:874:LYS:HA	1.75	0.67
1:I:866:LEU:HD22	1:I:914:VAL:CB	2.25	0.67
1:K:486:PHE:O	1:K:489:TYR:HB3	1.94	0.67
1:K:860:SER:C	1:K:861:GLN:HG2	2.14	0.67
1:M:143:LEU:HD22	1:M:143:LEU:H	1.60	0.67
1:M:239:LEU:HD12	1:M:239:LEU:C	2.14	0.67
1:A:403:LEU:HD12	1:A:403:LEU:C	2.15	0.66
1:C:639:LEU:HG	1:C:653:ILE:CG2	2.25	0.66
1:E:119:VAL:HG12	1:E:184:TRP:HE3	1.59	0.66
1:E:540:VAL:CG1	1:E:575:GLU:HB3	2.19	0.66
1:E:860:SER:C	1:E:861:GLN:CG	2.62	0.66
1:G:486:PHE:O	1:G:489:TYR:HB3	1.94	0.66
1:I:1220:LEU:CA	1:I:1236:ASP:HB3	2.25	0.66
1:K:636:ASP:C	1:K:637:LYS:HG3	2.15	0.66
1:K:1167:PRO:CB	1:K:1202:TRP:CE3	2.74	0.66
1:M:597:TRP:CH2	1:M:600:LYS:HA	2.30	0.66
1:M:1240:ILE:HG23	1:M:1241:LEU:H	1.56	0.66
1:A:409:GLU:O	1:C:337:ARG:NH2	2.25	0.66
1:A:597:TRP:CH2	1:A:600:LYS:HA	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:636:ASP:O	1:C:637:LYS:CD	2.42	0.66
1:C:862:TYR:N	1:C:884:TRP:HD1	1.92	0.66
1:E:636:ASP:C	1:E:637:LYS:HG3	2.15	0.66
1:E:866:LEU:HD22	1:E:914:VAL:CB	2.25	0.66
1:G:604:THR:N	1:G:1240:ILE:HD13	2.09	0.66
1:I:604:THR:N	1:I:1240:ILE:HD13	2.09	0.66
1:K:597:TRP:CH2	1:K:600:LYS:HA	2.30	0.66
1:K:1094:SER:O	1:K:1095:HIS:HB2	1.94	0.66
1:M:1200:LYS:HE3	1:M:1211:GLN:HB2	1.76	0.66
1:M:1220:LEU:CA	1:M:1236:ASP:HB3	2.25	0.66
1:A:387:SER:HA	1:A:445:LEU:HD13	1.77	0.66
1:A:1167:PRO:CB	1:A:1202:TRP:CE3	2.74	0.66
1:C:140:LEU:HD13	1:C:140:LEU:C	2.16	0.66
1:C:597:TRP:CH2	1:C:600:LYS:HA	2.30	0.66
1:C:1185:PHE:HE1	1:C:1192:LEU:HD12	1.53	0.66
1:G:261:LEU:C	1:G:261:LEU:HD12	2.15	0.66
1:G:636:ASP:O	1:G:637:LYS:CD	2.42	0.66
1:G:999:ARG:CZ	1:G:1000:PHE:H	2.09	0.66
1:G:1094:SER:O	1:G:1095:HIS:HB2	1.94	0.66
2:H:33:HIS:CE1	2:H:104:GLU:O	2.46	0.66
1:I:155:MET:HE3	1:I:441:GLN:HE21	1.57	0.66
1:I:535:GLU:O	1:I:538:CYS:HB2	1.95	0.66
1:K:866:LEU:HD22	1:K:914:VAL:CB	2.25	0.66
1:K:1200:LYS:HE3	1:K:1211:GLN:HB2	1.76	0.66
1:K:1220:LEU:HG	1:K:1236:ASP:CB	2.25	0.66
1:M:928:VAL:CG2	1:M:1224:HIS:ND1	2.58	0.66
1:A:294:ILE:CG2	1:A:324:VAL:CG1	2.74	0.66
1:C:604:THR:N	1:C:1240:ILE:HD13	2.09	0.66
1:E:174:LEU:HD23	1:E:174:LEU:C	2.15	0.66
1:E:239:LEU:HD12	1:E:239:LEU:C	2.15	0.66
1:E:564:VAL:HG13	1:E:583:GLN:HG2	1.77	0.66
1:E:1094:SER:O	1:E:1095:HIS:HB2	1.94	0.66
1:G:137:GLN:HG2	1:G:173:LEU:CD2	2.20	0.66
1:I:294:ILE:CG2	1:I:324:VAL:CG1	2.74	0.66
1:I:570:GLU:CD	1:I:571:PRO:HD2	2.15	0.66
1:I:600:LYS:H	1:I:600:LYS:HD3	1.59	0.66
1:I:1178:GLY:O	1:I:1179:TRP:HB2	1.95	0.66
1:K:294:ILE:CG2	1:K:324:VAL:CG1	2.74	0.66
1:M:261:LEU:C	1:M:261:LEU:HD12	2.15	0.66
1:M:294:ILE:CG2	1:M:324:VAL:CG1	2.74	0.66
1:M:999:ARG:CZ	1:M:1000:PHE:H	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1199:ILE:HD13	1:M:1232:TYR:HE2	1.58	0.66
1:A:261:LEU:C	1:A:261:LEU:HD12	2.15	0.66
1:A:999:ARG:CZ	1:A:1000:PHE:H	2.09	0.66
1:E:1220:LEU:CA	1:E:1236:ASP:HB3	2.25	0.66
1:G:636:ASP:C	1:G:637:LYS:HG3	2.15	0.66
1:I:140:LEU:HD13	1:I:140:LEU:C	2.16	0.66
1:I:322:LEU:HD12	1:I:364:LEU:HD23	0.74	0.66
1:I:416:GLN:NE2	1:I:416:GLN:HA	2.11	0.66
1:I:597:TRP:CH2	1:I:600:LYS:HA	2.30	0.66
1:I:867:TRP:HA	1:I:874:LYS:HA	1.75	0.66
1:K:453:LEU:HD12	1:K:453:LEU:C	2.16	0.66
1:K:617:ALA:O	1:K:635:ALA:N	2.24	0.66
1:K:639:LEU:HG	1:K:653:ILE:CG2	2.25	0.66
1:M:381:ASP:O	1:M:384:THR:CG2	2.36	0.66
1:M:570:GLU:CD	1:M:571:PRO:HD2	2.15	0.66
1:M:1167:PRO:CB	1:M:1202:TRP:CE3	2.74	0.66
1:A:928:VAL:CG2	1:A:1224:HIS:ND1	2.58	0.66
1:C:600:LYS:H	1:C:600:LYS:HD3	1.59	0.66
1:G:119:VAL:HG12	1:G:184:TRP:HE3	1.59	0.66
1:I:239:LEU:HD12	1:I:239:LEU:C	2.15	0.66
1:I:636:ASP:C	1:I:637:LYS:HG3	2.15	0.66
1:M:140:LEU:HD13	1:M:140:LEU:C	2.16	0.66
1:M:387:SER:HA	1:M:445:LEU:HD13	1.77	0.66
1:A:119:VAL:HG12	1:A:184:TRP:HE3	1.59	0.66
1:A:1226:SER:O	1:A:1229:PHE:N	2.29	0.66
1:C:1094:SER:O	1:C:1095:HIS:HB2	1.94	0.66
1:E:639:LEU:HG	1:E:653:ILE:CG2	2.25	0.66
1:E:999:ARG:CZ	1:E:1000:PHE:H	2.09	0.66
1:G:1178:GLY:O	1:G:1179:TRP:HB2	1.95	0.66
1:I:403:LEU:HD12	1:I:403:LEU:C	2.15	0.66
1:I:453:LEU:HD12	1:I:453:LEU:C	2.16	0.66
2:J:33:HIS:CE1	2:J:104:GLU:O	2.46	0.66
1:K:570:GLU:CD	1:K:571:PRO:HD2	2.15	0.66
1:M:453:LEU:HD12	1:M:453:LEU:C	2.16	0.66
1:M:604:THR:N	1:M:1240:ILE:HD13	2.09	0.66
1:M:1178:GLY:O	1:M:1179:TRP:HB2	1.95	0.66
1:M:1220:LEU:HG	1:M:1236:ASP:CB	2.25	0.66
1:A:121:GLN:OE1	1:M:147:PRO:HG2	1.96	0.66
1:A:564:VAL:HG13	1:A:583:GLN:HG2	1.77	0.66
1:C:261:LEU:C	1:C:261:LEU:HD12	2.15	0.66
1:C:364:LEU:CD1	1:C:368:MET:CE	2.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:535:GLU:O	1:C:538:CYS:HB2	1.95	0.66
1:C:1220:LEU:CA	1:C:1236:ASP:HB3	2.25	0.66
1:E:403:LEU:HD12	1:E:403:LEU:C	2.15	0.66
1:E:1178:GLY:O	1:E:1179:TRP:HB2	1.95	0.66
1:E:1226:SER:O	1:E:1229:PHE:N	2.29	0.66
1:K:143:LEU:HD22	1:K:143:LEU:H	1.60	0.66
1:K:597:TRP:CD1	1:K:1243:ILE:O	2.43	0.66
1:M:301:MET:HG3	1:M:306:LEU:HD21	1.77	0.66
1:M:564:VAL:HG13	1:M:583:GLN:HG2	1.77	0.66
1:C:143:LEU:H	1:C:143:LEU:HD22	1.60	0.66
1:C:403:LEU:HD12	1:C:403:LEU:C	2.15	0.66
1:E:1112:TRP:HB3	1:E:1119:PRO:HA	1.78	0.66
1:G:158:CYS:SG	1:G:284:SER:CA	2.84	0.66
1:I:999:ARG:CZ	1:I:1000:PHE:H	2.09	0.66
1:I:1220:LEU:CD2	1:I:1234:THR:OG1	2.40	0.66
1:K:260:ILE:CG1	1:K:260:ILE:O	2.43	0.66
1:M:636:ASP:O	1:M:637:LYS:CD	2.42	0.66
1:A:174:LEU:HD23	1:A:174:LEU:C	2.15	0.66
1:A:1200:LYS:HE3	1:A:1211:GLN:HB2	1.76	0.66
1:A:1220:LEU:HG	1:A:1236:ASP:CB	2.25	0.66
1:C:307:PRO:HG2	1:C:338:TRP:CZ3	2.31	0.66
1:C:489:TYR:O	1:C:489:TYR:HD1	1.79	0.66
1:E:260:ILE:O	1:E:260:ILE:CG1	2.43	0.66
1:E:294:ILE:CG2	1:E:324:VAL:CG1	2.74	0.66
1:E:1194:SER:OG	1:E:1202:TRP:HE3	1.75	0.66
1:E:1220:LEU:HG	1:E:1236:ASP:CB	2.25	0.66
1:G:301:MET:HG3	1:G:306:LEU:HD21	1.77	0.66
1:G:416:GLN:HA	1:G:416:GLN:NE2	2.11	0.66
1:G:1112:TRP:HB3	1:G:1119:PRO:HA	1.78	0.66
1:G:1220:LEU:CA	1:G:1236:ASP:HB3	2.25	0.66
1:I:364:LEU:CD1	1:I:368:MET:CE	2.74	0.66
1:I:597:TRP:CD1	1:I:1243:ILE:O	2.43	0.66
1:I:924:GLN:OE1	1:I:924:GLN:N	2.24	0.66
1:I:1226:SER:O	1:I:1229:PHE:N	2.29	0.66
1:K:301:MET:HG3	1:K:306:LEU:HD21	1.77	0.66
1:K:999:ARG:CZ	1:K:1000:PHE:H	2.09	0.66
1:M:158:CYS:SG	1:M:284:SER:CA	2.84	0.66
1:A:301:MET:HG3	1:A:306:LEU:HD21	1.77	0.65
1:A:307:PRO:HG2	1:A:338:TRP:CZ3	2.31	0.65
1:A:1171:GLU:HG3	1:A:1172:GLY:N	2.06	0.65
1:C:564:VAL:HG13	1:C:583:GLN:HG2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:657:GLU:HG2	1:C:680:LYS:HZ1	1.58	0.65
1:C:999:ARG:CZ	1:C:1000:PHE:H	2.09	0.65
1:E:140:LEU:HD13	1:E:140:LEU:C	2.16	0.65
1:G:334:PHE:CG	1:G:337:ARG:HD2	2.31	0.65
1:G:678:ASP:O	1:G:679:LYS:HB2	1.96	0.65
1:I:158:CYS:SG	1:I:284:SER:CA	2.84	0.65
1:I:307:PRO:HG2	1:I:338:TRP:CZ3	2.31	0.65
1:I:639:LEU:HG	1:I:653:ILE:CG2	2.25	0.65
1:I:1220:LEU:HG	1:I:1236:ASP:CB	2.25	0.65
1:K:535:GLU:O	1:K:538:CYS:HB2	1.95	0.65
1:M:866:LEU:HD22	1:M:914:VAL:CB	2.25	0.65
1:E:147:PRO:HG2	1:G:121:GLN:OE1	1.96	0.65
1:E:307:PRO:HG2	1:E:338:TRP:CZ3	2.31	0.65
1:G:260:ILE:O	1:G:260:ILE:CG1	2.43	0.65
1:G:639:LEU:HG	1:G:653:ILE:CG2	2.25	0.65
1:G:882:LEU:CD2	1:G:882:LEU:N	2.39	0.65
1:G:999:ARG:CD	1:G:1030:TRP:NE1	2.59	0.65
1:I:922:LEU:HD11	1:I:1241:LEU:HD23	1.79	0.65
1:K:409:GLU:O	1:M:337:ARG:NH2	2.25	0.65
1:K:564:VAL:HG13	1:K:583:GLN:HG2	1.77	0.65
1:K:922:LEU:HD11	1:K:1241:LEU:HD23	1.79	0.65
1:K:985:ILE:HD11	1:K:1006:VAL:HG21	1.78	0.65
1:A:158:CYS:SG	1:A:284:SER:CA	2.84	0.65
1:A:883:SER:CB	1:A:902:ASP:HB3	2.26	0.65
1:A:1178:GLY:O	1:A:1179:TRP:HB2	1.94	0.65
1:C:174:LEU:HD23	1:C:174:LEU:C	2.15	0.65
1:C:883:SER:CB	1:C:902:ASP:HB3	2.26	0.65
1:E:301:MET:HG3	1:E:306:LEU:HD21	1.77	0.65
1:G:489:TYR:HD1	1:G:489:TYR:O	1.79	0.65
1:G:866:LEU:HD22	1:G:914:VAL:CB	2.25	0.65
1:I:334:PHE:CG	1:I:337:ARG:HD2	2.31	0.65
1:I:489:TYR:O	1:I:489:TYR:HD1	1.79	0.65
1:K:155:MET:CE	1:K:441:GLN:NE2	2.55	0.65
1:K:561:PRO:HB3	1:K:1214:TYR:HD2	1.60	0.65
1:K:1171:GLU:HG3	1:K:1172:GLY:N	2.06	0.65
1:K:1220:LEU:CD2	1:K:1234:THR:OG1	2.40	0.65
1:K:1226:SER:O	1:K:1229:PHE:N	2.29	0.65
1:M:416:GLN:HA	1:M:416:GLN:NE2	2.11	0.65
1:M:597:TRP:HH2	1:M:603:ILE:CG1	2.10	0.65
1:M:1200:LYS:HG3	1:M:1211:GLN:CB	2.27	0.65
1:A:535:GLU:O	1:A:538:CYS:HB2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:597:TRP:CD1	1:A:1243:ILE:O	2.43	0.65
1:E:364:LEU:CD1	1:E:368:MET:CE	2.74	0.65
1:G:364:LEU:CD1	1:G:368:MET:CE	2.74	0.65
1:G:453:LEU:HD12	1:G:453:LEU:C	2.16	0.65
1:G:862:TYR:HA	1:G:885:VAL:HG13	1.79	0.65
1:G:1226:SER:O	1:G:1229:PHE:N	2.29	0.65
1:I:544:PHE:HE1	1:I:576:VAL:CG1	1.88	0.65
1:I:985:ILE:HD11	1:I:1006:VAL:HG21	1.78	0.65
1:I:999:ARG:CD	1:I:1030:TRP:NE1	2.59	0.65
1:I:1200:LYS:HG3	1:I:1211:GLN:CB	2.27	0.65
1:K:212:PHE:CD2	1:K:230:LEU:HD21	2.32	0.65
1:K:334:PHE:CG	1:K:337:ARG:HD2	2.31	0.65
1:M:1226:SER:O	1:M:1229:PHE:N	2.29	0.65
1:A:453:LEU:HD12	1:A:453:LEU:C	2.16	0.65
1:A:489:TYR:O	1:A:489:TYR:HD1	1.79	0.65
1:A:573:THR:HA	1:A:577:TYR:HD2	1.62	0.65
1:C:866:LEU:HD22	1:C:914:VAL:CB	2.25	0.65
1:C:1112:TRP:HB3	1:C:1119:PRO:HA	1.78	0.65
1:C:1185:PHE:O	1:C:1229:PHE:HZ	1.78	0.65
2:F:33:HIS:CE1	2:F:104:GLU:O	2.46	0.65
1:G:307:PRO:HG2	1:G:338:TRP:CZ3	2.31	0.65
1:I:260:ILE:O	1:I:260:ILE:CG1	2.43	0.65
1:I:1199:ILE:CD1	1:I:1232:TYR:CE2	2.77	0.65
1:K:140:LEU:HD13	1:K:140:LEU:C	2.16	0.65
1:K:1220:LEU:CA	1:K:1236:ASP:HB3	2.25	0.65
1:C:212:PHE:CD2	1:C:230:LEU:HD21	2.32	0.65
1:C:678:ASP:O	1:C:679:LYS:HB2	1.96	0.65
1:C:1226:SER:O	1:C:1229:PHE:N	2.29	0.65
2:D:33:HIS:CE1	2:D:104:GLU:O	2.46	0.65
1:E:212:PHE:CD2	1:E:230:LEU:HD21	2.32	0.65
1:E:334:PHE:CG	1:E:337:ARG:HD2	2.31	0.65
1:E:453:LEU:HD12	1:E:453:LEU:C	2.16	0.65
1:E:678:ASP:O	1:E:679:LYS:HB2	1.96	0.65
1:E:928:VAL:CG2	1:E:1224:HIS:ND1	2.58	0.65
1:G:403:LEU:HD12	1:G:403:LEU:C	2.15	0.65
1:G:513:LYS:HD3	1:G:522:LEU:CG	2.27	0.65
1:K:416:GLN:HA	1:K:416:GLN:NE2	2.11	0.65
1:K:862:TYR:HA	1:K:885:VAL:HG13	1.79	0.65
1:K:1200:LYS:HG3	1:K:1211:GLN:CB	2.27	0.65
1:M:535:GLU:O	1:M:538:CYS:HB2	1.95	0.65
1:C:453:LEU:HD12	1:C:453:LEU:C	2.16	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:513:LYS:HD3	1:C:522:LEU:CG	2.27	0.65
1:C:927:ASP:O	1:C:938:LEU:CB	2.24	0.65
1:C:985:ILE:HD11	1:C:1006:VAL:HG21	1.78	0.65
1:E:572:GLU:O	1:E:573:THR:HG23	1.97	0.65
1:G:143:LEU:HD22	1:G:143:LEU:H	1.60	0.65
1:I:862:TYR:HA	1:I:885:VAL:HG13	1.79	0.65
1:K:1151:ILE:HG12	1:K:1167:PRO:HG2	1.79	0.65
1:M:883:SER:CB	1:M:902:ASP:HB3	2.26	0.65
1:A:262:LEU:HD11	1:A:270:THR:CG2	2.27	0.65
1:A:1220:LEU:CA	1:A:1236:ASP:HB3	2.25	0.65
1:C:158:CYS:SG	1:C:284:SER:CA	2.84	0.65
1:C:262:LEU:HD11	1:C:270:THR:CG2	2.27	0.65
1:C:416:GLN:HA	1:C:416:GLN:NE2	2.11	0.65
1:C:564:VAL:HG11	1:C:583:GLN:HG3	1.79	0.65
1:E:416:GLN:HA	1:E:416:GLN:NE2	2.11	0.65
1:G:597:TRP:HH2	1:G:603:ILE:CG1	2.10	0.65
1:G:1200:LYS:HG3	1:G:1211:GLN:CB	2.27	0.65
1:I:147:PRO:HG2	1:K:121:GLN:OE1	1.96	0.65
1:I:212:PHE:CD2	1:I:230:LEU:HD21	2.32	0.65
1:I:290:LYS:O	1:I:293:GLU:HB3	1.97	0.65
1:I:1112:TRP:HB3	1:I:1119:PRO:HA	1.78	0.65
1:K:262:LEU:HD11	1:K:270:THR:CG2	2.27	0.65
1:K:307:PRO:HG2	1:K:338:TRP:CZ3	2.31	0.65
1:M:307:PRO:HG2	1:M:338:TRP:CZ3	2.31	0.65
1:M:461:ILE:HD13	1:M:491:MET:CG	2.27	0.65
1:M:573:THR:HA	1:M:577:TYR:HD2	1.62	0.65
1:M:985:ILE:HD11	1:M:1006:VAL:HG21	1.78	0.65
1:A:262:LEU:HD21	1:A:270:THR:CG2	2.27	0.65
1:A:364:LEU:CD1	1:A:368:MET:CE	2.74	0.65
1:A:513:LYS:HD3	1:A:522:LEU:CG	2.27	0.65
1:A:882:LEU:CD2	1:A:882:LEU:N	2.39	0.65
1:C:294:ILE:CG2	1:C:324:VAL:CG1	2.74	0.65
1:E:158:CYS:SG	1:E:284:SER:CA	2.84	0.65
1:E:862:TYR:N	1:E:884:TRP:HD1	1.92	0.65
1:E:862:TYR:HA	1:E:885:VAL:HG13	1.79	0.65
1:E:883:SER:CB	1:E:902:ASP:HB3	2.26	0.65
1:G:1199:ILE:CD1	1:G:1232:TYR:CE2	2.77	0.65
1:I:301:MET:HG3	1:I:306:LEU:HD21	1.77	0.65
1:I:513:LYS:HD3	1:I:522:LEU:CG	2.27	0.65
1:K:147:PRO:HG2	1:M:121:GLN:OE1	1.96	0.65
1:K:461:ILE:HD13	1:K:491:MET:CG	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:540:VAL:CG1	1:K:575:GLU:HB3	2.19	0.65
1:K:1199:ILE:CD1	1:K:1232:TYR:CE2	2.77	0.65
1:M:212:PHE:CD2	1:M:230:LEU:HD21	2.32	0.65
1:M:262:LEU:HD11	1:M:270:THR:CG2	2.27	0.65
1:M:564:VAL:HG11	1:M:583:GLN:HG3	1.79	0.65
1:M:862:TYR:N	1:M:884:TRP:HD1	1.92	0.65
1:M:922:LEU:HD11	1:M:1241:LEU:HD23	1.79	0.65
1:M:1112:TRP:HB3	1:M:1119:PRO:HA	1.78	0.65
1:A:147:PRO:HG2	1:C:121:GLN:OE1	1.96	0.65
1:A:334:PHE:CG	1:A:337:ARG:HD2	2.31	0.65
1:A:416:GLN:NE2	1:A:416:GLN:HA	2.11	0.65
1:C:294:ILE:CG2	1:C:324:VAL:HG11	2.22	0.65
1:C:334:PHE:CG	1:C:337:ARG:HD2	2.31	0.65
1:E:513:LYS:HD3	1:E:522:LEU:CG	2.27	0.65
1:E:985:ILE:HD11	1:E:1006:VAL:HG21	1.78	0.65
1:G:256:SER:O	1:G:257:GLN:HB2	1.97	0.65
1:G:1110:LYS:HD3	1:G:1119:PRO:HG3	1.79	0.65
1:G:1151:ILE:HG12	1:G:1167:PRO:HG2	1.79	0.65
1:I:1151:ILE:HG12	1:I:1167:PRO:HG2	1.79	0.65
1:K:158:CYS:SG	1:K:284:SER:CA	2.84	0.65
1:K:364:LEU:CD1	1:K:368:MET:CE	2.74	0.65
1:M:262:LEU:HD21	1:M:270:THR:CG2	2.27	0.65
1:M:489:TYR:O	1:M:489:TYR:HD1	1.79	0.65
1:M:513:LYS:HD3	1:M:522:LEU:CG	2.27	0.65
1:M:862:TYR:HA	1:M:885:VAL:HG13	1.79	0.65
1:A:212:PHE:CD2	1:A:230:LEU:HD21	2.32	0.64
1:A:657:GLU:HG2	1:A:680:LYS:HZ1	1.59	0.64
1:C:147:PRO:HG2	1:E:121:GLN:OE1	1.96	0.64
1:C:1167:PRO:CB	1:C:1202:TRP:CE3	2.74	0.64
1:E:573:THR:HA	1:E:577:TYR:HD2	1.62	0.64
1:E:1110:LYS:HD3	1:E:1119:PRO:HG3	1.79	0.64
1:I:461:ILE:HD13	1:I:491:MET:CG	2.27	0.64
1:I:553:HIS:C	1:I:553:HIS:CD2	2.71	0.64
1:I:883:SER:CB	1:I:902:ASP:HB3	2.27	0.64
1:K:262:LEU:HD21	1:K:270:THR:CG2	2.27	0.64
1:K:290:LYS:O	1:K:293:GLU:HB3	1.97	0.64
1:K:453:LEU:HD11	1:K:454:GLN:NE2	2.00	0.64
1:K:597:TRP:HH2	1:K:603:ILE:CG1	2.10	0.64
1:A:1235:VAL:HG22	1:A:1235:VAL:O	1.97	0.64
1:C:260:ILE:CG1	1:C:260:ILE:O	2.43	0.64
1:C:283:GLU:CD	1:C:284:SER:N	2.51	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:597:TRP:HH2	1:C:603:ILE:CG1	2.10	0.64
1:C:597:TRP:CD1	1:C:1243:ILE:O	2.43	0.64
1:E:256:SER:O	1:E:257:GLN:HB2	1.97	0.64
1:E:262:LEU:HD11	1:E:270:THR:CG2	2.27	0.64
1:E:489:TYR:O	1:E:489:TYR:HD1	1.79	0.64
1:E:1185:PHE:O	1:E:1229:PHE:HZ	1.78	0.64
1:E:1235:VAL:O	1:E:1235:VAL:HG22	1.97	0.64
1:G:147:PRO:HG2	1:I:121:GLN:OE1	1.96	0.64
1:G:290:LYS:O	1:G:293:GLU:HB3	1.97	0.64
1:G:1235:VAL:HG22	1:G:1235:VAL:O	1.97	0.64
1:I:1110:LYS:HD3	1:I:1119:PRO:HG3	1.79	0.64
1:K:127:VAL:N	3:K:1301:DTP:HN61	1.93	0.64
1:K:513:LYS:HD3	1:K:522:LEU:CG	2.27	0.64
1:M:1151:ILE:HG12	1:M:1167:PRO:HG2	1.79	0.64
1:A:572:GLU:O	1:A:573:THR:HG23	1.97	0.64
1:A:862:TYR:HA	1:A:885:VAL:HG13	1.79	0.64
1:C:155:MET:CE	1:C:441:GLN:NE2	2.55	0.64
1:C:290:LYS:O	1:C:293:GLU:HB3	1.97	0.64
1:C:301:MET:HG3	1:C:306:LEU:HD21	1.77	0.64
1:C:1178:GLY:O	1:C:1179:TRP:HB2	1.95	0.64
1:C:1235:VAL:O	1:C:1235:VAL:HG22	1.97	0.64
1:G:212:PHE:CD2	1:G:230:LEU:HD21	2.32	0.64
1:G:262:LEU:HD21	1:G:270:THR:CG2	2.27	0.64
1:G:553:HIS:CD2	1:G:553:HIS:C	2.71	0.64
1:G:928:VAL:CG2	1:G:1224:HIS:ND1	2.58	0.64
1:G:985:ILE:HD11	1:G:1006:VAL:HG21	1.78	0.64
1:I:678:ASP:O	1:I:679:LYS:HB2	1.96	0.64
1:K:553:HIS:C	1:K:553:HIS:CD2	2.71	0.64
1:K:573:THR:HA	1:K:577:TYR:HD2	1.62	0.64
1:K:1112:TRP:HB3	1:K:1119:PRO:HA	1.78	0.64
1:M:283:GLU:CD	1:M:284:SER:N	2.51	0.64
1:M:678:ASP:O	1:M:679:LYS:HB2	1.96	0.64
1:A:461:ILE:HD13	1:A:491:MET:CG	2.27	0.64
1:A:678:ASP:O	1:A:679:LYS:HB2	1.96	0.64
1:A:1112:TRP:HB3	1:A:1119:PRO:HA	1.78	0.64
1:C:262:LEU:HD21	1:C:270:THR:CG2	2.27	0.64
1:C:1200:LYS:HG3	1:C:1211:GLN:CB	2.27	0.64
1:G:140:LEU:HD13	1:G:140:LEU:C	2.16	0.64
1:G:902:ASP:HB3	2:H:72:LYS:HZ2	1.61	0.64
1:I:561:PRO:HB3	1:I:1214:TYR:HD2	1.59	0.64
1:I:1235:VAL:O	1:I:1235:VAL:HG22	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:381:ASP:O	1:K:384:THR:CG2	2.36	0.64
1:M:657:GLU:HG2	1:M:680:LYS:HZ1	1.58	0.64
1:M:1235:VAL:O	1:M:1235:VAL:HG22	1.97	0.64
1:C:256:SER:O	1:C:257:GLN:HB2	1.97	0.64
1:C:573:THR:HA	1:C:577:TYR:HD2	1.62	0.64
1:C:882:LEU:CD2	1:C:882:LEU:N	2.39	0.64
1:E:564:VAL:HG11	1:E:583:GLN:HG3	1.79	0.64
1:I:262:LEU:HD11	1:I:270:THR:CG2	2.27	0.64
1:I:294:ILE:CG2	1:I:324:VAL:HG11	2.22	0.64
1:I:573:THR:HA	1:I:577:TYR:HD2	1.62	0.64
1:M:334:PHE:CG	1:M:337:ARG:HD2	2.31	0.64
1:A:985:ILE:HD11	1:A:1006:VAL:HG21	1.78	0.64
1:A:1167:PRO:HB3	1:A:1202:TRP:CE2	2.32	0.64
1:C:862:TYR:HA	1:C:885:VAL:HG13	1.79	0.64
1:C:1110:LYS:HD3	1:C:1119:PRO:HG3	1.79	0.64
1:I:256:SER:O	1:I:257:GLN:HB2	1.97	0.64
1:K:544:PHE:HD1	1:K:576:VAL:CG2	2.11	0.64
1:M:290:LYS:O	1:M:293:GLU:HB3	1.97	0.64
1:M:364:LEU:CD1	1:M:368:MET:CE	2.74	0.64
1:A:725:LEU:HB2	1:A:739:MET:HB2	1.80	0.64
1:C:725:LEU:HB2	1:C:739:MET:HB2	1.80	0.64
1:E:262:LEU:HD21	1:E:270:THR:CG2	2.27	0.64
1:G:948:LEU:HD12	1:G:957:ASP:CB	2.28	0.64
1:I:262:LEU:HD21	1:I:270:THR:CG2	2.27	0.64
1:K:489:TYR:O	1:K:489:TYR:HD1	1.79	0.64
1:M:1143:ALA:HB1	1:M:1183:LEU:CD2	2.28	0.64
2:N:33:HIS:CE1	2:N:104:GLU:O	2.46	0.64
1:A:256:SER:O	1:A:257:GLN:HB2	1.97	0.64
1:A:290:LYS:O	1:A:293:GLU:HB3	1.97	0.64
1:A:1143:ALA:HB1	1:A:1183:LEU:CD2	2.28	0.64
1:E:999:ARG:CD	1:E:1030:TRP:NE1	2.59	0.64
1:I:146:GLU:HB3	1:I:147:PRO:HD2	1.80	0.64
1:I:283:GLU:CD	1:I:284:SER:N	2.51	0.64
1:I:544:PHE:HD1	1:I:576:VAL:CG2	2.11	0.64
1:I:572:GLU:O	1:I:573:THR:HG23	1.97	0.64
1:I:1143:ALA:HB1	1:I:1183:LEU:CD2	2.28	0.64
1:K:564:VAL:HG11	1:K:583:GLN:HG3	1.79	0.64
1:K:948:LEU:HD12	1:K:957:ASP:CB	2.28	0.64
1:A:127:VAL:N	3:A:1301:DTP:HN61	1.93	0.64
1:A:137:GLN:HG2	1:A:173:LEU:HD13	1.80	0.64
1:A:1200:LYS:HG3	1:A:1211:GLN:CB	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:553:HIS:C	1:C:553:HIS:CD2	2.71	0.64
1:C:572:GLU:O	1:C:573:THR:HG23	1.97	0.64
1:E:1200:LYS:HG3	1:E:1211:GLN:CB	2.27	0.64
1:G:262:LEU:HD11	1:G:270:THR:CG2	2.27	0.64
1:G:283:GLU:CD	1:G:284:SER:N	2.51	0.64
1:G:294:ILE:CG2	1:G:324:VAL:CG1	2.74	0.64
1:G:461:ILE:HD13	1:G:491:MET:CG	2.27	0.64
1:G:544:PHE:HD1	1:G:576:VAL:CG2	2.11	0.64
1:K:137:GLN:HG2	1:K:173:LEU:HD13	1.80	0.64
1:K:146:GLU:HB3	1:K:147:PRO:HD2	1.80	0.64
1:K:883:SER:CB	1:K:902:ASP:HB3	2.26	0.64
1:K:1143:ALA:HB1	1:K:1183:LEU:CD2	2.28	0.64
1:K:1232:TYR:CZ	1:K:1234:THR:HB	2.33	0.64
1:M:137:GLN:HG2	1:M:173:LEU:HD13	1.80	0.64
1:M:301:MET:HG3	1:M:306:LEU:CD2	2.28	0.64
1:M:948:LEU:HD12	1:M:957:ASP:CB	2.28	0.64
1:M:1167:PRO:HB3	1:M:1202:TRP:CE2	2.32	0.64
1:A:948:LEU:HD12	1:A:957:ASP:CB	2.28	0.64
1:C:948:LEU:HD12	1:C:957:ASP:CB	2.28	0.64
1:E:544:PHE:HD1	1:E:576:VAL:CG2	2.11	0.64
1:E:1151:ILE:HG12	1:E:1167:PRO:HG2	1.79	0.64
1:G:127:VAL:N	3:G:1301:DTP:HN61	1.93	0.64
1:G:453:LEU:HD11	1:G:454:GLN:NE2	2.00	0.64
1:G:561:PRO:HB3	1:G:1214:TYR:HD2	1.60	0.64
1:G:572:GLU:O	1:G:573:THR:HG23	1.97	0.64
1:G:883:SER:CB	1:G:902:ASP:HB3	2.26	0.64
1:G:1143:ALA:HB1	1:G:1183:LEU:CD2	2.28	0.64
1:G:1232:TYR:CZ	1:G:1234:THR:HB	2.33	0.64
1:I:948:LEU:HD12	1:I:957:ASP:CB	2.28	0.64
1:K:678:ASP:O	1:K:679:LYS:HB2	1.96	0.64
1:K:999:ARG:CD	1:K:1030:TRP:NE1	2.59	0.64
1:M:155:MET:CE	1:M:441:GLN:NE2	2.55	0.64
1:M:544:PHE:HD1	1:M:576:VAL:CG2	2.11	0.64
1:A:212:PHE:CE2	1:A:230:LEU:HD21	2.34	0.63
1:C:928:VAL:CG2	1:C:1224:HIS:ND1	2.58	0.63
1:C:1167:PRO:HB3	1:C:1202:TRP:CE2	2.32	0.63
1:I:927:ASP:O	1:I:938:LEU:CB	2.24	0.63
1:M:212:PHE:CE2	1:M:230:LEU:HD21	2.33	0.63
1:M:256:SER:O	1:M:257:GLN:HB2	1.97	0.63
1:M:553:HIS:C	1:M:553:HIS:CD2	2.71	0.63
1:A:544:PHE:HD1	1:A:576:VAL:CG2	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1151:ILE:HG12	1:A:1167:PRO:HG2	1.79	0.63
1:A:1232:TYR:CZ	1:A:1234:THR:HB	2.33	0.63
1:C:480:CYS:HA	1:C:483:TRP:CD1	2.33	0.63
1:E:283:GLU:CD	1:E:284:SER:N	2.51	0.63
1:E:334:PHE:HB2	1:E:337:ARG:CD	2.29	0.63
1:E:553:HIS:C	1:E:553:HIS:CD2	2.71	0.63
1:E:725:LEU:HB2	1:E:739:MET:HB2	1.80	0.63
1:I:137:GLN:HG2	1:I:173:LEU:HD13	1.80	0.63
1:I:334:PHE:HB2	1:I:337:ARG:CD	2.29	0.63
1:A:301:MET:HG3	1:A:306:LEU:CD2	2.28	0.63
1:A:553:HIS:C	1:A:553:HIS:CD2	2.71	0.63
1:A:564:VAL:HG11	1:A:583:GLN:HG3	1.79	0.63
1:C:212:PHE:CE2	1:C:230:LEU:HD21	2.33	0.63
1:C:544:PHE:HD1	1:C:576:VAL:CG2	2.11	0.63
1:E:127:VAL:N	3:E:1301:DTP:HN61	1.93	0.63
1:E:948:LEU:HD12	1:E:957:ASP:CB	2.28	0.63
1:E:1143:ALA:HB1	1:E:1183:LEU:CD2	2.28	0.63
1:G:862:TYR:N	1:G:884:TRP:HD1	1.92	0.63
1:G:1199:ILE:HD11	1:G:1232:TYR:HE2	1.62	0.63
1:K:283:GLU:CD	1:K:284:SER:N	2.51	0.63
1:M:572:GLU:O	1:M:573:THR:HG23	1.97	0.63
1:A:480:CYS:HA	1:A:483:TRP:CD1	2.33	0.63
1:A:597:TRP:HH2	1:A:603:ILE:CG1	2.10	0.63
1:A:904:GLN:NE2	1:A:1174:ALA:O	2.32	0.63
1:A:922:LEU:HD11	1:A:1241:LEU:HD23	1.78	0.63
1:A:1110:LYS:HD3	1:A:1119:PRO:HG3	1.79	0.63
1:C:1143:ALA:HB1	1:C:1183:LEU:CD2	2.28	0.63
1:G:573:THR:HA	1:G:577:TYR:HD2	1.62	0.63
1:I:252:LYS:HA	1:I:252:LYS:HE3	1.81	0.63
1:I:725:LEU:HB2	1:I:739:MET:HB2	1.80	0.63
1:K:252:LYS:HA	1:K:252:LYS:HE3	1.81	0.63
1:K:572:GLU:O	1:K:573:THR:HG23	1.97	0.63
1:A:683:ILE:HB	1:A:693:HIS:HB2	1.80	0.63
1:C:666:SER:HB3	1:C:671:PHE:HB2	1.80	0.63
1:C:999:ARG:CD	1:C:1030:TRP:NE1	2.59	0.63
1:E:1225:VAL:HG11	1:E:1229:PHE:CZ	2.34	0.63
1:G:725:LEU:HB2	1:G:739:MET:HB2	1.80	0.63
1:K:334:PHE:HB2	1:K:337:ARG:CD	2.29	0.63
1:K:1110:LYS:HD3	1:K:1119:PRO:HG3	1.79	0.63
1:M:924:GLN:CB	1:M:1238:LEU:HG	2.28	0.63
1:A:283:GLU:CD	1:A:284:SER:N	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:999:ARG:CD	1:A:1030:TRP:CD1	2.76	0.63
1:C:1225:VAL:HG11	1:C:1229:PHE:CZ	2.34	0.63
1:E:666:SER:HB3	1:E:671:PHE:HB2	1.80	0.63
1:I:904:GLN:NE2	1:I:1174:ALA:O	2.32	0.63
1:K:212:PHE:CE2	1:K:230:LEU:HD21	2.33	0.63
1:K:904:GLN:NE2	1:K:1174:ALA:O	2.32	0.63
1:A:252:LYS:HA	1:A:252:LYS:HE3	1.81	0.63
1:A:1185:PHE:HE1	1:A:1192:LEU:HD12	1.53	0.63
1:C:252:LYS:HA	1:C:252:LYS:HE3	1.81	0.63
1:C:597:TRP:HE1	1:C:1243:ILE:H	1.47	0.63
1:C:1151:ILE:HG12	1:C:1167:PRO:HG2	1.79	0.63
1:E:1232:TYR:CZ	1:E:1234:THR:HB	2.33	0.63
1:G:146:GLU:HB3	1:G:147:PRO:HD2	1.80	0.63
1:G:155:MET:CE	1:G:441:GLN:HE21	2.12	0.63
1:G:301:MET:HG3	1:G:306:LEU:CD2	2.28	0.63
1:G:1132:CYS:O	1:G:1145:GLY:N	2.32	0.63
1:I:1232:TYR:CZ	1:I:1234:THR:HB	2.33	0.63
1:M:725:LEU:HB2	1:M:739:MET:HB2	1.80	0.63
1:M:904:GLN:NE2	1:M:1174:ALA:O	2.32	0.63
1:M:1225:VAL:HG11	1:M:1229:PHE:CZ	2.34	0.63
1:C:137:GLN:HG2	1:C:173:LEU:HD13	1.80	0.63
1:C:904:GLN:NE2	1:C:1174:ALA:O	2.32	0.63
1:E:290:LYS:O	1:E:293:GLU:HB3	1.97	0.63
1:E:561:PRO:HB3	1:E:1214:TYR:HD2	1.59	0.63
1:G:1167:PRO:CB	1:G:1202:TRP:CE3	2.74	0.63
1:I:212:PHE:CE2	1:I:230:LEU:HD21	2.33	0.63
1:K:256:SER:O	1:K:257:GLN:HB2	1.97	0.63
1:M:1110:LYS:HD3	1:M:1119:PRO:HG3	1.79	0.63
1:A:155:MET:CE	1:A:441:GLN:HE21	2.12	0.63
1:E:1132:CYS:O	1:E:1145:GLY:N	2.32	0.63
1:G:137:GLN:HG2	1:G:173:LEU:HD13	1.80	0.63
1:G:904:GLN:NE2	1:G:1174:ALA:O	2.31	0.63
1:I:457:HIS:CG	1:I:493:SER:CB	2.64	0.63
1:I:876:ALA:CB	1:I:914:VAL:O	2.45	0.63
1:I:1132:CYS:O	1:I:1145:GLY:N	2.32	0.63
1:I:1199:ILE:HD11	1:I:1232:TYR:OH	1.99	0.63
1:M:252:LYS:HA	1:M:252:LYS:HE3	1.81	0.63
1:M:597:TRP:HE1	1:M:1243:ILE:H	1.47	0.63
1:M:597:TRP:CD1	1:M:1243:ILE:O	2.43	0.63
1:M:683:ILE:HB	1:M:693:HIS:HB2	1.80	0.63
1:M:882:LEU:CD2	1:M:882:LEU:N	2.39	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:127:VAL:N	3:C:1301:DTP:HN61	1.93	0.62
1:C:301:MET:HG3	1:C:306:LEU:CD2	2.28	0.62
1:C:565:GLN:HE22	1:C:568:LEU:HD11	1.64	0.62
1:E:212:PHE:CE2	1:E:230:LEU:HD21	2.33	0.62
1:G:212:PHE:CE2	1:G:230:LEU:HD21	2.33	0.62
1:G:334:PHE:HB2	1:G:337:ARG:CD	2.29	0.62
1:G:683:ILE:HB	1:G:693:HIS:HB2	1.80	0.62
1:I:301:MET:HG3	1:I:306:LEU:CD2	2.28	0.62
1:I:564:VAL:HG11	1:I:583:GLN:HG3	1.79	0.62
1:I:1225:VAL:HG11	1:I:1229:PHE:CZ	2.34	0.62
1:K:666:SER:HB3	1:K:671:PHE:HB2	1.80	0.62
1:K:1132:CYS:O	1:K:1145:GLY:N	2.32	0.62
1:K:1199:ILE:HD11	1:K:1232:TYR:OH	1.99	0.62
1:K:1225:VAL:HG11	1:K:1229:PHE:CZ	2.34	0.62
1:M:666:SER:HB3	1:M:671:PHE:HB2	1.80	0.62
1:M:1232:TYR:CZ	1:M:1234:THR:HB	2.33	0.62
1:A:684:TRP:HA	1:A:691:LEU:HA	1.81	0.62
1:E:301:MET:HG3	1:E:306:LEU:CD2	2.28	0.62
1:E:461:ILE:HD13	1:E:491:MET:CG	2.27	0.62
1:G:1008:HIS:HE1	1:G:1010:GLN:HB2	1.65	0.62
1:K:725:LEU:HB2	1:K:739:MET:HB2	1.80	0.62
1:K:1167:PRO:HB3	1:K:1202:TRP:CE2	2.32	0.62
1:M:480:CYS:HA	1:M:483:TRP:CD1	2.33	0.62
1:M:1008:HIS:HE1	1:M:1010:GLN:HB2	1.64	0.62
1:A:565:GLN:HE22	1:A:568:LEU:HD11	1.65	0.62
1:C:155:MET:CE	1:C:441:GLN:HE21	2.12	0.62
1:C:334:PHE:HB2	1:C:337:ARG:CD	2.29	0.62
1:C:684:TRP:HA	1:C:691:LEU:HA	1.81	0.62
1:E:767:LEU:HD21	1:E:815:VAL:HG11	1.82	0.62
1:E:904:GLN:NE2	1:E:1174:ALA:O	2.32	0.62
1:G:252:LYS:HA	1:G:252:LYS:HE3	1.81	0.62
1:G:1199:ILE:HD11	1:G:1232:TYR:OH	1.99	0.62
1:K:457:HIS:CG	1:K:493:SER:CB	2.64	0.62
1:K:544:PHE:HE1	1:K:576:VAL:CG1	1.88	0.62
1:K:767:LEU:HD21	1:K:815:VAL:HG11	1.82	0.62
1:M:146:GLU:HB3	1:M:147:PRO:HD2	1.80	0.62
1:M:1132:CYS:O	1:M:1145:GLY:N	2.32	0.62
1:A:597:TRP:CZ3	1:A:600:LYS:HB3	2.35	0.62
1:C:1232:TYR:CZ	1:C:1234:THR:HB	2.33	0.62
1:E:137:GLN:HG2	1:E:173:LEU:HD13	1.80	0.62
1:K:431:LYS:HZ2	1:M:336:ASN:HB3	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:480:CYS:HA	1:K:483:TRP:CD1	2.33	0.62
1:K:924:GLN:CB	1:K:1238:LEU:HG	2.28	0.62
1:C:1008:HIS:HE1	1:C:1010:GLN:HB2	1.64	0.62
1:E:683:ILE:HB	1:E:693:HIS:HB2	1.80	0.62
1:E:922:LEU:HD11	1:E:1241:LEU:HD23	1.79	0.62
1:G:564:VAL:HG11	1:G:583:GLN:HG3	1.79	0.62
1:G:597:TRP:HE1	1:G:1243:ILE:H	1.47	0.62
1:I:597:TRP:HE1	1:I:1243:ILE:H	1.47	0.62
1:I:683:ILE:HB	1:I:693:HIS:HB2	1.81	0.62
1:K:1235:VAL:O	1:K:1235:VAL:HG22	1.97	0.62
1:A:566:LEU:HG	1:A:566:LEU:O	2.00	0.62
1:C:461:ILE:HD13	1:C:491:MET:CG	2.27	0.62
1:E:252:LYS:HA	1:E:252:LYS:HE3	1.81	0.62
1:E:566:LEU:HG	1:E:566:LEU:O	2.00	0.62
1:E:1094:SER:HB3	1:E:1135:PHE:CD1	2.35	0.62
1:E:1167:PRO:HB3	1:E:1202:TRP:CE2	2.32	0.62
1:G:363:ALA:O	1:G:366:GLU:HB3	2.00	0.62
1:G:566:LEU:HG	1:G:566:LEU:O	2.00	0.62
1:K:301:MET:HG3	1:K:306:LEU:CD2	2.28	0.62
1:K:698:HIS:CD2	1:K:702:VAL:HG22	2.35	0.62
1:K:876:ALA:CB	1:K:914:VAL:O	2.45	0.62
1:M:457:HIS:CG	1:M:493:SER:CB	2.64	0.62
1:M:1199:ILE:HD11	1:M:1232:TYR:OH	1.99	0.62
1:A:339:GLU:O	1:A:342:LEU:HB3	2.00	0.62
1:A:801:VAL:HA	1:A:817:ALA:HB2	1.81	0.62
1:A:1182:ASP:HB3	1:A:1223:ILE:CG2	2.30	0.62
1:C:801:VAL:HA	1:C:817:ALA:HB2	1.81	0.62
1:C:1132:CYS:O	1:C:1145:GLY:N	2.32	0.62
1:C:1182:ASP:HB3	1:C:1223:ILE:CG2	2.30	0.62
1:E:597:TRP:HH2	1:E:603:ILE:CG1	2.10	0.62
1:G:1225:VAL:HG11	1:G:1229:PHE:CZ	2.34	0.62
1:I:339:GLU:O	1:I:342:LEU:HB3	2.00	0.62
1:I:666:SER:HB3	1:I:671:PHE:HB2	1.80	0.62
1:K:1225:VAL:HG11	1:K:1229:PHE:CD1	2.35	0.62
1:M:565:GLN:HE22	1:M:568:LEU:HD11	1.65	0.62
1:A:322:LEU:HD22	1:A:322:LEU:C	2.20	0.62
1:C:322:LEU:HD22	1:C:322:LEU:C	2.20	0.62
1:C:566:LEU:O	1:C:566:LEU:HG	2.00	0.62
1:C:597:TRP:CZ3	1:C:600:LYS:HB3	2.35	0.62
1:C:1094:SER:HB3	1:C:1135:PHE:CD1	2.35	0.62
1:C:1130:VAL:HG11	1:C:1144:THR:HB	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:GLN:HE22	1:E:568:LEU:HD11	1.65	0.62
1:E:1130:VAL:HG11	1:E:1144:THR:HB	1.82	0.62
1:G:928:VAL:CG1	1:G:937:VAL:HA	2.28	0.62
1:I:767:LEU:HD21	1:I:815:VAL:HG11	1.82	0.62
1:I:1008:HIS:HE1	1:I:1010:GLN:HB2	1.64	0.62
1:K:155:MET:CE	1:K:441:GLN:HE21	2.12	0.62
1:K:902:ASP:CB	2:L:72:LYS:HZ2	2.13	0.62
1:K:1008:HIS:HE1	1:K:1010:GLN:HB2	1.64	0.62
1:M:334:PHE:HB2	1:M:337:ARG:CD	2.29	0.62
1:M:363:ALA:O	1:M:366:GLU:HB3	2.00	0.62
1:M:999:ARG:CD	1:M:1030:TRP:NE1	2.59	0.62
1:A:698:HIS:CD2	1:A:702:VAL:HG22	2.35	0.62
1:A:999:ARG:CD	1:A:1030:TRP:NE1	2.59	0.62
1:C:339:GLU:O	1:C:342:LEU:HB3	2.00	0.62
1:C:683:ILE:HB	1:C:693:HIS:HB2	1.80	0.62
1:E:363:ALA:O	1:E:366:GLU:HB3	2.00	0.62
1:E:698:HIS:CD2	1:E:702:VAL:HG22	2.35	0.62
1:E:1199:ILE:HD11	1:E:1232:TYR:OH	1.99	0.62
1:G:480:CYS:HA	1:G:483:TRP:CD1	2.33	0.62
1:K:1182:ASP:HB3	1:K:1223:ILE:CG2	2.30	0.62
1:M:252:LYS:HA	1:M:252:LYS:CE	2.30	0.62
1:M:595:LEU:CG	1:M:1201:TRP:HH2	2.13	0.62
1:C:1199:ILE:HD11	1:C:1232:TYR:OH	1.99	0.62
1:G:339:GLU:O	1:G:342:LEU:HB3	2.00	0.62
1:G:684:TRP:HA	1:G:691:LEU:HA	1.81	0.62
1:G:698:HIS:CD2	1:G:702:VAL:HG22	2.35	0.62
1:G:1094:SER:HB3	1:G:1135:PHE:CD1	2.35	0.62
1:I:862:TYR:N	1:I:884:TRP:HD1	1.92	0.62
1:I:1182:ASP:HB3	1:I:1223:ILE:CG2	2.30	0.62
1:I:1225:VAL:HG11	1:I:1229:PHE:CD1	2.35	0.62
1:K:339:GLU:O	1:K:342:LEU:HB3	2.00	0.62
1:M:453:LEU:HD11	1:M:454:GLN:NE2	2.00	0.62
1:M:528:GLU:HG3	1:M:529:TYR:N	2.15	0.62
1:M:566:LEU:HG	1:M:566:LEU:O	2.00	0.62
1:A:1199:ILE:HD11	1:A:1232:TYR:OH	1.99	0.61
1:C:767:LEU:HD21	1:C:815:VAL:HG11	1.82	0.61
1:G:1130:VAL:HG11	1:G:1144:THR:HB	1.82	0.61
1:I:1094:SER:HB3	1:I:1135:PHE:CD1	2.35	0.61
1:K:1094:SER:HB3	1:K:1135:PHE:CD1	2.35	0.61
1:M:179:PRO:HD3	1:M:237:ARG:NH1	2.15	0.61
1:M:322:LEU:HD22	1:M:322:LEU:C	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:597:TRP:CZ3	1:M:600:LYS:HB3	2.35	0.61
1:M:684:TRP:HA	1:M:691:LEU:HA	1.81	0.61
1:A:308:GLU:HA	1:A:308:GLU:OE2	2.00	0.61
1:A:666:SER:HB3	1:A:671:PHE:HB2	1.80	0.61
1:C:1089:LEU:HB2	1:C:1105:ALA:HA	1.83	0.61
1:E:999:ARG:CD	1:E:1030:TRP:CD1	2.76	0.61
1:E:1182:ASP:HB3	1:E:1223:ILE:CG2	2.30	0.61
1:G:374:MET:HA	1:G:374:MET:HE3	1.82	0.61
1:I:480:CYS:HA	1:I:483:TRP:CD1	2.33	0.61
1:I:597:TRP:HH2	1:I:603:ILE:CG1	2.10	0.61
1:I:666:SER:OG	1:I:670:ARG:N	2.34	0.61
1:I:1089:LEU:HB2	1:I:1105:ALA:HA	1.82	0.61
1:K:597:TRP:HE1	1:K:1243:ILE:H	1.47	0.61
1:K:666:SER:OG	1:K:670:ARG:N	2.34	0.61
1:M:1182:ASP:HB3	1:M:1223:ILE:CG2	2.30	0.61
1:A:252:LYS:HA	1:A:252:LYS:CE	2.30	0.61
1:A:334:PHE:HB2	1:A:337:ARG:CD	2.29	0.61
1:A:1225:VAL:HG11	1:A:1229:PHE:CZ	2.34	0.61
1:C:922:LEU:HD11	1:C:1241:LEU:HD23	1.78	0.61
1:C:1199:ILE:CD1	1:C:1232:TYR:CE2	2.77	0.61
1:E:146:GLU:HB3	1:E:147:PRO:HD2	1.80	0.61
1:E:480:CYS:HA	1:E:483:TRP:CD1	2.33	0.61
1:E:529:TYR:HA	1:E:532:ILE:CG2	2.30	0.61
1:E:1089:LEU:HB2	1:E:1105:ALA:HA	1.82	0.61
1:G:529:TYR:HA	1:G:532:ILE:CG2	2.30	0.61
1:G:666:SER:HB3	1:G:671:PHE:HB2	1.80	0.61
1:G:922:LEU:HD11	1:G:1241:LEU:HD23	1.78	0.61
1:I:252:LYS:HA	1:I:252:LYS:CE	2.30	0.61
1:I:611:VAL:HG12	1:I:613:PRO:HD3	1.83	0.61
1:K:252:LYS:HA	1:K:252:LYS:CE	2.30	0.61
1:K:558:GLN:CB	1:K:559:PRO:CD	2.78	0.61
1:M:339:GLU:O	1:M:342:LEU:HB3	2.00	0.61
1:A:146:GLU:HB3	1:A:147:PRO:HD2	1.80	0.61
1:A:902:ASP:CB	2:B:72:LYS:HZ2	2.13	0.61
1:E:322:LEU:HD22	1:E:322:LEU:C	2.20	0.61
1:E:496:MET:HA	1:E:496:MET:CE	2.31	0.61
1:E:928:VAL:CG1	1:E:937:VAL:HA	2.28	0.61
1:E:1225:VAL:HG11	1:E:1229:PHE:CD1	2.35	0.61
1:E:1233:VAL:CG1	1:E:1243:ILE:HA	2.31	0.61
1:G:143:LEU:O	1:G:143:LEU:HD23	2.01	0.61
1:G:1182:ASP:HB3	1:G:1223:ILE:CG2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1225:VAL:HG11	1:G:1229:PHE:CD1	2.35	0.61
1:K:597:TRP:CZ3	1:K:600:LYS:HB3	2.35	0.61
1:M:308:GLU:HA	1:M:308:GLU:OE2	2.01	0.61
1:M:767:LEU:HD21	1:M:815:VAL:HG11	1.82	0.61
1:A:1130:VAL:HG11	1:A:1144:THR:HB	1.82	0.61
1:A:1132:CYS:O	1:A:1145:GLY:N	2.32	0.61
1:C:883:SER:CB	1:C:902:ASP:CB	2.79	0.61
1:C:1233:VAL:CG1	1:C:1243:ILE:HA	2.31	0.61
1:E:143:LEU:O	1:E:143:LEU:HD23	2.01	0.61
1:G:252:LYS:HA	1:G:252:LYS:CE	2.30	0.61
1:G:666:SER:OG	1:G:670:ARG:N	2.34	0.61
1:G:1089:LEU:HB2	1:G:1105:ALA:HA	1.83	0.61
1:I:127:VAL:N	3:I:1301:DTP:HN61	1.93	0.61
1:I:558:GLN:CB	1:I:559:PRO:CD	2.78	0.61
1:I:801:VAL:HA	1:I:817:ALA:HB2	1.81	0.61
1:K:529:TYR:HA	1:K:532:ILE:CG2	2.30	0.61
1:K:565:GLN:HE22	1:K:568:LEU:HD11	1.65	0.61
1:K:611:VAL:HG12	1:K:613:PRO:HD3	1.83	0.61
1:K:801:VAL:HA	1:K:817:ALA:HB2	1.81	0.61
1:M:666:SER:OG	1:M:670:ARG:N	2.34	0.61
1:A:363:ALA:O	1:A:366:GLU:HB3	2.00	0.61
1:A:496:MET:CE	1:A:496:MET:HA	2.31	0.61
1:A:544:PHE:CD1	1:A:576:VAL:HG11	2.36	0.61
1:C:698:HIS:CD2	1:C:702:VAL:HG22	2.35	0.61
1:C:928:VAL:CG1	1:C:937:VAL:HA	2.28	0.61
1:G:558:GLN:CB	1:G:559:PRO:CD	2.78	0.61
1:G:611:VAL:HG12	1:G:613:PRO:HD3	1.83	0.61
1:G:767:LEU:HD21	1:G:815:VAL:HG11	1.82	0.61
1:I:155:MET:CE	1:I:441:GLN:HE21	2.12	0.61
1:I:363:ALA:O	1:I:366:GLU:HB3	2.00	0.61
1:I:684:TRP:HA	1:I:691:LEU:HA	1.81	0.61
1:K:149:TRP:CZ3	1:K:251:LEU:HD22	2.36	0.61
1:K:528:GLU:HG3	1:K:529:TYR:N	2.15	0.61
1:M:174:LEU:HD23	1:M:175:GLU:CA	2.31	0.61
1:M:999:ARG:CD	1:M:1030:TRP:CD1	2.76	0.61
1:A:174:LEU:HD23	1:A:175:GLU:CA	2.31	0.61
1:A:597:TRP:HE1	1:A:1243:ILE:H	1.47	0.61
1:A:883:SER:CB	1:A:902:ASP:CB	2.79	0.61
1:A:1089:LEU:HB2	1:A:1105:ALA:HA	1.83	0.61
1:A:1233:VAL:CG1	1:A:1243:ILE:HA	2.31	0.61
1:C:143:LEU:HD23	1:C:143:LEU:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:146:GLU:HB3	1:C:147:PRO:HD2	1.80	0.61
1:C:1225:VAL:HG11	1:C:1229:PHE:CD1	2.35	0.61
1:G:1233:VAL:CG1	1:G:1243:ILE:HA	2.31	0.61
1:I:924:GLN:CB	1:I:1238:LEU:HG	2.28	0.61
1:I:1235:VAL:O	1:I:1235:VAL:CG2	2.49	0.61
1:K:363:ALA:O	1:K:366:GLU:HB3	2.00	0.61
1:M:1094:SER:HB3	1:M:1135:PHE:CD1	2.35	0.61
1:A:149:TRP:CZ3	1:A:251:LEU:HD22	2.36	0.61
1:A:529:TYR:HA	1:A:532:ILE:CG2	2.30	0.61
1:C:174:LEU:HD23	1:C:175:GLU:CA	2.31	0.61
1:C:334:PHE:HB2	1:C:337:ARG:CG	2.31	0.61
1:C:984:ALA:CA	1:C:999:ARG:O	2.47	0.61
1:E:684:TRP:HA	1:E:691:LEU:HA	1.81	0.61
1:G:149:TRP:CZ3	1:G:251:LEU:HD22	2.36	0.61
1:G:322:LEU:HD22	1:G:322:LEU:C	2.20	0.61
1:I:529:TYR:HA	1:I:532:ILE:CG2	2.30	0.61
1:I:1167:PRO:HB3	1:I:1202:TRP:CE2	2.32	0.61
1:K:496:MET:HA	1:K:496:MET:CE	2.31	0.61
1:K:559:PRO:O	1:K:561:PRO:HD3	2.01	0.61
1:K:683:ILE:HB	1:K:693:HIS:HB2	1.80	0.61
1:K:684:TRP:HA	1:K:691:LEU:HA	1.81	0.61
1:K:1089:LEU:HB2	1:K:1105:ALA:HA	1.82	0.61
1:M:155:MET:CE	1:M:441:GLN:HE21	2.12	0.61
1:M:496:MET:HA	1:M:496:MET:CE	2.30	0.61
1:A:1008:HIS:HE1	1:A:1010:GLN:HB2	1.64	0.61
1:A:1225:VAL:HG11	1:A:1229:PHE:CD1	2.35	0.61
1:A:1235:VAL:O	1:A:1235:VAL:CG2	2.49	0.61
1:C:496:MET:HA	1:C:496:MET:CE	2.31	0.61
1:C:564:VAL:CG1	1:C:583:GLN:CG	2.79	0.61
1:C:1180:VAL:O	1:C:1180:VAL:HG12	2.01	0.61
1:E:564:VAL:CG1	1:E:583:GLN:CG	2.79	0.61
1:E:1180:VAL:HG12	1:E:1180:VAL:O	2.01	0.61
1:E:1208:GLU:HG3	1:E:1211:GLN:HG2	1.83	0.61
1:I:597:TRP:CZ3	1:I:600:LYS:HB3	2.35	0.61
1:I:698:HIS:CD2	1:I:702:VAL:HG22	2.35	0.61
1:K:322:LEU:HD22	1:K:322:LEU:C	2.20	0.61
1:K:883:SER:CB	1:K:902:ASP:CB	2.79	0.61
1:M:559:PRO:O	1:M:561:PRO:HD3	2.01	0.61
1:M:657:GLU:CB	1:M:680:LYS:HD2	2.31	0.61
1:M:801:VAL:HA	1:M:817:ALA:HB2	1.81	0.61
1:A:143:LEU:HD23	1:A:143:LEU:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1094:SER:HB3	1:A:1135:PHE:CD1	2.35	0.61
1:C:252:LYS:HA	1:C:252:LYS:CE	2.30	0.61
1:C:308:GLU:HA	1:C:308:GLU:OE2	2.00	0.61
1:C:507:LEU:HD21	1:C:544:PHE:CZ	2.36	0.61
1:E:149:TRP:CZ3	1:E:251:LEU:HD22	2.36	0.61
1:E:339:GLU:O	1:E:342:LEU:HB3	2.00	0.61
1:E:597:TRP:HE1	1:E:1243:ILE:H	1.47	0.61
1:G:496:MET:HA	1:G:496:MET:CE	2.31	0.61
1:G:597:TRP:CZ3	1:G:600:LYS:HB3	2.35	0.61
1:G:801:VAL:HA	1:G:817:ALA:HB2	1.81	0.61
1:I:566:LEU:HG	1:I:566:LEU:O	2.00	0.61
1:I:1130:VAL:HG11	1:I:1144:THR:HB	1.82	0.61
1:K:143:LEU:O	1:K:143:LEU:HD23	2.01	0.61
1:M:698:HIS:CD2	1:M:702:VAL:HG22	2.35	0.61
1:M:1225:VAL:HG11	1:M:1229:PHE:CD1	2.35	0.61
1:M:1235:VAL:O	1:M:1235:VAL:CG2	2.49	0.61
1:A:559:PRO:O	1:A:561:PRO:HD3	2.01	0.60
1:E:334:PHE:HB2	1:E:337:ARG:CG	2.31	0.60
1:E:597:TRP:CZ3	1:E:600:LYS:HB3	2.35	0.60
1:E:611:VAL:HG12	1:E:613:PRO:HD3	1.83	0.60
1:G:1208:GLU:HG3	1:G:1211:GLN:HG2	1.83	0.60
1:M:143:LEU:O	1:M:143:LEU:HD23	2.01	0.60
1:M:1089:LEU:HB2	1:M:1105:ALA:HA	1.82	0.60
1:M:1233:VAL:CG1	1:M:1243:ILE:HA	2.31	0.60
1:A:332:ARG:HH11	1:A:332:ARG:CG	2.14	0.60
1:A:528:GLU:HG3	1:A:529:TYR:N	2.15	0.60
1:A:767:LEU:HD21	1:A:815:VAL:HG11	1.82	0.60
1:C:561:PRO:HB3	1:C:1214:TYR:HD2	1.60	0.60
1:E:1235:VAL:O	1:E:1235:VAL:CG2	2.49	0.60
1:G:565:GLN:HE22	1:G:568:LEU:HD11	1.64	0.60
1:G:595:LEU:CG	1:G:1201:TRP:HH2	2.13	0.60
1:G:821:ILE:HB	1:G:835:ILE:HB	1.83	0.60
1:G:924:GLN:CB	1:G:1238:LEU:HG	2.28	0.60
1:I:285:SER:OG	1:I:286:LEU:N	2.34	0.60
1:K:179:PRO:HD3	1:K:237:ARG:NH1	2.15	0.60
1:K:308:GLU:HA	1:K:308:GLU:OE2	2.01	0.60
1:M:149:TRP:CZ3	1:M:251:LEU:HD22	2.36	0.60
1:A:657:GLU:CB	1:A:680:LYS:HD2	2.31	0.60
1:A:1067:VAL:HB	1:A:1081:PHE:HB2	1.84	0.60
1:E:252:LYS:HA	1:E:252:LYS:CE	2.30	0.60
1:E:801:VAL:HA	1:E:817:ALA:HB2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:821:ILE:HB	1:E:835:ILE:HB	1.84	0.60
1:E:924:GLN:CB	1:E:1238:LEU:HG	2.28	0.60
1:E:1008:HIS:HE1	1:E:1010:GLN:HB2	1.64	0.60
1:G:1235:VAL:O	1:G:1235:VAL:CG2	2.49	0.60
1:I:149:TRP:CZ3	1:I:251:LEU:HD22	2.36	0.60
1:I:174:LEU:HD23	1:I:175:GLU:CA	2.31	0.60
1:I:453:LEU:HD11	1:I:454:GLN:NE2	2.00	0.60
1:I:559:PRO:O	1:I:561:PRO:HD3	2.01	0.60
1:I:635:ALA:O	1:I:637:LYS:HG3	2.02	0.60
1:I:657:GLU:CB	1:I:680:LYS:HD2	2.31	0.60
1:I:1233:VAL:CG1	1:I:1243:ILE:HA	2.31	0.60
1:K:595:LEU:CG	1:K:1201:TRP:HH2	2.13	0.60
1:K:999:ARG:CD	1:K:1030:TRP:CD1	2.76	0.60
1:M:334:PHE:HB2	1:M:337:ARG:CG	2.31	0.60
1:M:883:SER:CB	1:M:902:ASP:CB	2.79	0.60
1:A:334:PHE:HB2	1:A:337:ARG:CG	2.31	0.60
1:C:212:PHE:HE2	1:C:230:LEU:CD2	2.14	0.60
1:E:332:ARG:HH11	1:E:332:ARG:CG	2.14	0.60
1:E:507:LEU:HD21	1:E:544:PHE:CZ	2.36	0.60
1:G:332:ARG:HH11	1:G:332:ARG:CG	2.14	0.60
1:G:1167:PRO:HB3	1:G:1202:TRP:CE2	2.32	0.60
1:G:1180:VAL:O	1:G:1180:VAL:HG12	2.01	0.60
1:I:564:VAL:CG1	1:I:583:GLN:CG	2.79	0.60
1:I:939:ALA:HB3	1:I:947:GLN:O	2.02	0.60
1:I:1185:PHE:CZ	1:I:1192:LEU:HD11	2.35	0.60
1:K:1130:VAL:HG11	1:K:1144:THR:HB	1.82	0.60
1:M:678:ASP:OD2	1:M:680:LYS:CE	2.46	0.60
1:M:1067:VAL:HB	1:M:1081:PHE:HB2	1.84	0.60
1:A:364:LEU:CD1	1:A:368:MET:HE1	2.29	0.60
1:A:595:LEU:CG	1:A:1201:TRP:HH2	2.14	0.60
1:C:1208:GLU:HG3	1:C:1211:GLN:HG2	1.83	0.60
1:C:1235:VAL:O	1:C:1235:VAL:CG2	2.49	0.60
1:E:155:MET:HE3	1:E:441:GLN:HE21	1.60	0.60
1:E:155:MET:CE	1:E:441:GLN:HE21	2.12	0.60
1:E:666:SER:OG	1:E:670:ARG:N	2.34	0.60
1:E:1143:ALA:CB	1:E:1183:LEU:CD2	2.80	0.60
1:I:322:LEU:HD22	1:I:322:LEU:C	2.20	0.60
1:I:528:GLU:HG3	1:I:529:TYR:N	2.15	0.60
1:K:564:VAL:CG1	1:K:583:GLN:CG	2.79	0.60
1:K:1201:TRP:HB2	1:K:1210:SER:C	2.22	0.60
1:M:529:TYR:HA	1:M:532:ILE:CG2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1201:TRP:HB2	1:M:1210:SER:C	2.22	0.60
1:M:1208:GLU:HG3	1:M:1211:GLN:HG2	1.83	0.60
1:A:564:VAL:CG1	1:A:583:GLN:CG	2.79	0.60
1:A:666:SER:OG	1:A:670:ARG:N	2.34	0.60
1:A:1180:VAL:O	1:A:1180:VAL:HG12	2.01	0.60
1:C:122:ARG:CZ	1:C:126:PHE:CE2	2.85	0.60
1:C:332:ARG:HH11	1:C:332:ARG:CG	2.14	0.60
1:C:528:GLU:HG3	1:C:529:TYR:N	2.15	0.60
1:E:174:LEU:HD23	1:E:175:GLU:CA	2.31	0.60
1:E:657:GLU:CB	1:E:680:LYS:HD2	2.31	0.60
1:G:716:LEU:HB2	1:G:730:LEU:HD21	1.84	0.60
1:I:821:ILE:HB	1:I:835:ILE:HB	1.83	0.60
1:K:334:PHE:HB2	1:K:337:ARG:CG	2.31	0.60
1:K:566:LEU:O	1:K:566:LEU:HG	2.00	0.60
1:K:864:VAL:CG2	1:K:885:VAL:HG11	2.32	0.60
1:K:879:ARG:HB3	1:K:921:MET:SD	2.42	0.60
1:M:107:THR:HB	1:M:110:VAL:HG23	1.83	0.60
1:M:611:VAL:HG12	1:M:613:PRO:HD3	1.83	0.60
1:M:1130:VAL:HG11	1:M:1144:THR:HB	1.82	0.60
1:A:507:LEU:HD21	1:A:544:PHE:CZ	2.36	0.60
1:A:864:VAL:CG2	1:A:885:VAL:HG11	2.32	0.60
1:A:939:ALA:HB3	1:A:947:GLN:O	2.02	0.60
1:C:363:ALA:O	1:C:366:GLU:HB3	2.00	0.60
1:C:821:ILE:HB	1:C:835:ILE:HB	1.84	0.60
1:C:924:GLN:CB	1:C:1238:LEU:HG	2.28	0.60
1:E:635:ALA:O	1:E:637:LYS:HG3	2.02	0.60
1:E:884:TRP:O	1:E:885:VAL:O	2.20	0.60
1:G:265:ARG:NH1	3:G:1301:DTP:O1G	2.35	0.60
1:G:285:SER:OG	1:G:286:LEU:N	2.34	0.60
1:G:507:LEU:HD21	1:G:544:PHE:CZ	2.36	0.60
1:G:528:GLU:HG3	1:G:529:TYR:N	2.15	0.60
1:G:883:SER:CB	1:G:902:ASP:CB	2.79	0.60
1:G:1185:PHE:CZ	1:G:1192:LEU:HD11	2.35	0.60
1:I:427:ASP:CG	1:I:434:ARG:HG2	2.22	0.60
1:I:507:LEU:HD21	1:I:544:PHE:CZ	2.36	0.60
1:I:716:LEU:HB2	1:I:730:LEU:HD21	1.84	0.60
1:I:1180:VAL:O	1:I:1180:VAL:HG12	2.01	0.60
1:K:174:LEU:HD23	1:K:175:GLU:CA	2.31	0.60
1:K:265:ARG:NH1	3:K:1301:DTP:O1G	2.35	0.60
1:K:427:ASP:CG	1:K:434:ARG:HG2	2.22	0.60
1:M:127:VAL:N	3:M:1301:DTP:HN61	1.93	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:716:LEU:HB2	1:M:730:LEU:HD21	1.84	0.60
1:A:285:SER:OG	1:A:286:LEU:N	2.35	0.60
1:A:635:ALA:O	1:A:637:LYS:HG3	2.02	0.60
1:A:1237:ASN:O	1:A:1238:LEU:HB2	2.02	0.60
1:C:529:TYR:HA	1:C:532:ILE:CG2	2.30	0.60
1:C:559:PRO:O	1:C:561:PRO:HD3	2.01	0.60
1:C:939:ALA:HB3	1:C:947:GLN:O	2.02	0.60
1:C:1067:VAL:HB	1:C:1081:PHE:HB2	1.84	0.60
1:C:1143:ALA:CB	1:C:1183:LEU:CD2	2.80	0.60
1:E:212:PHE:HE2	1:E:230:LEU:CD2	2.14	0.60
1:G:122:ARG:CZ	1:G:126:PHE:CE2	2.85	0.60
1:G:564:VAL:CG1	1:G:583:GLN:CG	2.79	0.60
1:G:884:TRP:O	1:G:885:VAL:O	2.20	0.60
1:G:1143:ALA:CB	1:G:1183:LEU:CD2	2.80	0.60
1:I:212:PHE:HE2	1:I:230:LEU:CD2	2.14	0.60
1:I:265:ARG:NH1	3:I:1301:DTP:O1G	2.35	0.60
1:I:595:LEU:CG	1:I:1201:TRP:HH2	2.13	0.60
1:I:879:ARG:HB3	1:I:921:MET:SD	2.42	0.60
1:I:883:SER:CB	1:I:902:ASP:CB	2.79	0.60
1:I:1201:TRP:HB2	1:I:1210:SER:C	2.22	0.60
1:I:1208:GLU:HG3	1:I:1211:GLN:HG2	1.83	0.60
1:I:1237:ASN:O	1:I:1238:LEU:HB2	2.02	0.60
1:K:657:GLU:CB	1:K:680:LYS:HD2	2.31	0.60
1:K:862:TYR:CE1	1:K:885:VAL:HG12	2.21	0.60
1:K:1233:VAL:CG1	1:K:1243:ILE:HA	2.31	0.60
1:M:507:LEU:HD21	1:M:544:PHE:CZ	2.36	0.60
1:M:564:VAL:CG1	1:M:583:GLN:CG	2.79	0.60
1:A:879:ARG:HB3	1:A:921:MET:SD	2.42	0.60
1:C:149:TRP:CZ3	1:C:251:LEU:HD22	2.36	0.60
1:C:427:ASP:CG	1:C:434:ARG:HG2	2.22	0.60
1:C:611:VAL:HG12	1:C:613:PRO:HD3	1.83	0.60
1:C:864:VAL:CG2	1:C:885:VAL:HG11	2.32	0.60
1:C:879:ARG:HB3	1:C:921:MET:SD	2.42	0.60
1:K:332:ARG:HH11	1:K:332:ARG:CG	2.14	0.60
1:K:427:ASP:OD2	1:K:434:ARG:HG3	2.02	0.60
1:K:1208:GLU:HG3	1:K:1211:GLN:HG2	1.83	0.60
1:M:427:ASP:CG	1:M:434:ARG:HG2	2.22	0.60
1:M:635:ALA:O	1:M:637:LYS:HG3	2.02	0.60
1:M:939:ALA:HB3	1:M:947:GLN:O	2.02	0.60
1:A:265:ARG:NH1	3:A:1301:DTP:O1G	2.35	0.60
1:C:635:ALA:O	1:C:637:LYS:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:427:ASP:CG	1:E:434:ARG:HG2	2.22	0.60
5:F:201:HEM:CBC	5:F:201:HEM:HMC1	2.28	0.60
1:G:174:LEU:HD23	1:G:175:GLU:CA	2.31	0.60
1:G:334:PHE:HB2	1:G:337:ARG:CG	2.31	0.60
1:I:374:MET:HA	1:I:374:MET:HE2	1.84	0.60
1:I:496:MET:CE	1:I:496:MET:HA	2.31	0.60
1:I:849:SER:HB3	1:I:854:LEU:HB2	1.84	0.60
1:I:864:VAL:CG2	1:I:885:VAL:HG11	2.32	0.60
1:I:999:ARG:HG2	1:I:1030:TRP:CD2	2.37	0.60
1:K:285:SER:OG	1:K:286:LEU:N	2.34	0.60
1:K:716:LEU:HB2	1:K:730:LEU:HD21	1.84	0.60
1:M:212:PHE:HE2	1:M:230:LEU:CD2	2.14	0.60
1:M:884:TRP:O	1:M:885:VAL:O	2.20	0.60
1:A:884:TRP:O	1:A:885:VAL:O	2.19	0.59
1:C:265:ARG:NH1	3:C:1301:DTP:O1G	2.35	0.59
1:E:999:ARG:HG2	1:E:1030:TRP:CD2	2.37	0.59
1:G:427:ASP:OD2	1:G:434:ARG:HG3	2.02	0.59
1:G:559:PRO:O	1:G:561:PRO:HD3	2.01	0.59
1:I:143:LEU:HD23	1:I:143:LEU:O	2.01	0.59
1:I:588:VAL:HG12	1:I:1248:GLU:C	2.23	0.59
1:K:107:THR:HB	1:K:110:VAL:HG23	1.84	0.59
1:M:122:ARG:CZ	1:M:126:PHE:CE2	2.85	0.59
1:A:107:THR:HB	1:A:110:VAL:HG23	1.84	0.59
1:A:1201:TRP:HB2	1:A:1210:SER:C	2.22	0.59
1:A:1208:GLU:HG3	1:A:1211:GLN:HG2	1.83	0.59
1:C:595:LEU:CG	1:C:1201:TRP:HH2	2.13	0.59
1:E:146:GLU:CG	1:G:111:ARG:HH11	2.15	0.59
1:E:559:PRO:O	1:E:561:PRO:HD3	2.01	0.59
1:E:861:GLN:CA	1:E:884:TRP:HD1	2.15	0.59
1:G:864:VAL:CG2	1:G:885:VAL:HG11	2.32	0.59
1:G:939:ALA:HB3	1:G:947:GLN:O	2.02	0.59
1:G:1201:TRP:HB2	1:G:1210:SER:C	2.22	0.59
1:I:565:GLN:HE22	1:I:568:LEU:HD11	1.64	0.59
1:K:507:LEU:HD21	1:K:544:PHE:CZ	2.37	0.59
1:K:588:VAL:HG12	1:K:1248:GLU:C	2.23	0.59
1:K:1067:VAL:HB	1:K:1081:PHE:HB2	1.84	0.59
1:K:1185:PHE:O	1:K:1229:PHE:HZ	1.78	0.59
1:K:1235:VAL:O	1:K:1235:VAL:CG2	2.49	0.59
1:M:136:ILE:O	1:M:140:LEU:N	2.33	0.59
1:M:265:ARG:NH1	3:M:1301:DTP:O1G	2.35	0.59
1:M:588:VAL:HG12	1:M:1248:GLU:C	2.23	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:849:SER:HB3	1:M:854:LEU:HB2	1.84	0.59
1:A:147:PRO:HG3	1:C:121:GLN:NE2	2.18	0.59
1:A:611:VAL:HG12	1:A:613:PRO:HD3	1.83	0.59
1:A:821:ILE:HB	1:A:835:ILE:HB	1.84	0.59
1:A:876:ALA:CB	1:A:914:VAL:O	2.45	0.59
1:E:285:SER:OG	1:E:286:LEU:N	2.34	0.59
1:E:716:LEU:HB2	1:E:730:LEU:HD21	1.84	0.59
1:E:883:SER:CB	1:E:902:ASP:CB	2.79	0.59
1:G:147:PRO:HG3	1:I:121:GLN:NE2	2.18	0.59
1:G:266:ASP:HB2	1:G:269:VAL:HG23	1.85	0.59
1:G:496:MET:HA	1:G:496:MET:HE3	1.84	0.59
1:G:588:VAL:HG12	1:G:1248:GLU:C	2.23	0.59
1:G:657:GLU:CB	1:G:680:LYS:HD2	2.31	0.59
1:G:849:SER:HB3	1:G:854:LEU:HB2	1.84	0.59
1:G:861:GLN:CA	1:G:884:TRP:HD1	2.15	0.59
1:I:332:ARG:HH11	1:I:332:ARG:CG	2.14	0.59
1:I:861:GLN:CA	1:I:884:TRP:HD1	2.15	0.59
1:K:212:PHE:CE2	1:K:230:LEU:CD2	2.85	0.59
1:K:678:ASP:OD2	1:K:680:LYS:CE	2.46	0.59
1:K:939:ALA:HB3	1:K:947:GLN:O	2.02	0.59
1:K:1185:PHE:CZ	1:K:1192:LEU:HD11	2.35	0.59
1:M:266:ASP:HB2	1:M:269:VAL:HG23	1.85	0.59
1:M:1237:ASN:O	1:M:1238:LEU:HB2	2.02	0.59
1:A:556:GLY:O	1:A:557:ARG:C	2.41	0.59
1:A:716:LEU:HB2	1:A:730:LEU:HD21	1.84	0.59
1:C:657:GLU:CB	1:C:680:LYS:HD2	2.31	0.59
1:C:861:GLN:CA	1:C:884:TRP:HD1	2.15	0.59
1:C:876:ALA:CB	1:C:914:VAL:O	2.45	0.59
1:E:427:ASP:OD2	1:E:434:ARG:HG3	2.02	0.59
1:E:879:ARG:HB3	1:E:921:MET:SD	2.42	0.59
1:E:1185:PHE:HE1	1:E:1192:LEU:HD12	1.53	0.59
1:G:879:ARG:HB3	1:G:921:MET:HE2	1.82	0.59
1:G:879:ARG:HB3	1:G:921:MET:SD	2.42	0.59
1:I:146:GLU:HG2	1:K:111:ARG:HH11	1.68	0.59
1:I:266:ASP:HB2	1:I:269:VAL:HG23	1.85	0.59
1:I:334:PHE:HB2	1:I:337:ARG:CG	2.31	0.59
1:I:431:LYS:HZ2	1:K:336:ASN:HB3	1.63	0.59
1:I:902:ASP:CB	2:J:72:LYS:HZ2	2.14	0.59
1:I:1185:PHE:HE1	1:I:1192:LEU:HD12	1.53	0.59
1:K:146:GLU:HG2	1:M:111:ARG:HH11	1.68	0.59
1:K:147:PRO:HG3	1:M:121:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:266:ASP:HB2	1:K:269:VAL:HG23	1.85	0.59
1:K:345:LEU:HD11	1:K:353:ILE:HD13	1.85	0.59
1:K:635:ALA:O	1:K:637:LYS:HG3	2.02	0.59
1:K:884:TRP:O	1:K:885:VAL:O	2.20	0.59
1:K:1143:ALA:CB	1:K:1183:LEU:CD2	2.80	0.59
1:A:121:GLN:NE2	1:M:147:PRO:HG3	2.18	0.59
1:A:427:ASP:CG	1:A:434:ARG:HG2	2.22	0.59
1:A:553:HIS:CD2	1:A:554:LEU:HB2	2.38	0.59
1:A:924:GLN:CB	1:A:1238:LEU:HG	2.28	0.59
1:C:364:LEU:CD1	1:C:368:MET:HE1	2.29	0.59
1:G:1237:ASN:O	1:G:1238:LEU:HB2	2.02	0.59
1:I:107:THR:HB	1:I:110:VAL:HG23	1.83	0.59
1:I:345:LEU:HD11	1:I:353:ILE:HD13	1.85	0.59
1:I:678:ASP:OD2	1:I:680:LYS:CE	2.46	0.59
1:I:884:TRP:O	1:I:885:VAL:O	2.20	0.59
1:I:1143:ALA:CB	1:I:1183:LEU:CD2	2.80	0.59
1:K:122:ARG:CZ	1:K:126:PHE:CE2	2.85	0.59
1:K:1237:ASN:O	1:K:1238:LEU:HB2	2.02	0.59
1:M:864:VAL:CG2	1:M:885:VAL:HG11	2.32	0.59
1:M:879:ARG:HB3	1:M:921:MET:SD	2.42	0.59
1:A:111:ARG:HH11	1:M:146:GLU:HG2	1.68	0.59
1:A:212:PHE:HE2	1:A:230:LEU:CD2	2.14	0.59
1:C:333:ASP:CB	1:C:334:PHE:CE1	2.85	0.59
1:E:939:ALA:HB3	1:E:947:GLN:O	2.02	0.59
1:E:1067:VAL:HB	1:E:1081:PHE:HB2	1.84	0.59
1:G:544:PHE:HE1	1:G:576:VAL:CG1	1.88	0.59
1:G:984:ALA:CA	1:G:999:ARG:O	2.47	0.59
1:I:212:PHE:CE2	1:I:230:LEU:CD2	2.86	0.59
1:I:390:GLN:HB3	1:I:393:VAL:HG13	1.85	0.59
1:K:861:GLN:CA	1:K:884:TRP:HD1	2.15	0.59
1:M:317:CYS:SG	1:M:324:VAL:HG23	2.43	0.59
1:M:658:ASP:OD2	1:M:677:VAL:CG1	2.51	0.59
1:A:266:ASP:HB2	1:A:269:VAL:HG23	1.85	0.59
1:A:317:CYS:SG	1:A:324:VAL:HG23	2.43	0.59
1:C:146:GLU:CG	1:E:111:ARG:HH11	2.15	0.59
1:C:716:LEU:HB2	1:C:730:LEU:HD21	1.84	0.59
1:C:884:TRP:O	1:C:885:VAL:O	2.19	0.59
1:E:179:PRO:HD3	1:E:237:ARG:NH1	2.15	0.59
1:E:266:ASP:HB2	1:E:269:VAL:HG23	1.85	0.59
1:E:345:LEU:HD11	1:E:353:ILE:HD13	1.85	0.59
1:G:390:GLN:HB3	1:G:393:VAL:HG13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:427:ASP:CG	1:G:434:ARG:HG2	2.22	0.59
1:I:122:ARG:CZ	1:I:126:PHE:CE2	2.85	0.59
1:I:147:PRO:HG3	1:K:121:GLN:NE2	2.18	0.59
1:I:553:HIS:CD2	1:I:554:LEU:HB2	2.38	0.59
1:K:999:ARG:HG2	1:K:1030:TRP:CD2	2.37	0.59
1:M:333:ASP:CB	1:M:334:PHE:CE1	2.85	0.59
1:M:427:ASP:OD2	1:M:434:ARG:HG3	2.02	0.59
1:A:122:ARG:CZ	1:A:126:PHE:CE2	2.85	0.59
1:A:1028:GLN:HE21	1:A:1030:TRP:HB2	1.68	0.59
1:A:1143:ALA:CB	1:A:1183:LEU:CD2	2.80	0.59
1:C:317:CYS:SG	1:C:324:VAL:HG23	2.43	0.59
1:C:431:LYS:HZ2	1:E:336:ASN:HB3	1.62	0.59
1:C:553:HIS:CD2	1:C:554:LEU:HB2	2.38	0.59
1:E:265:ARG:NH1	3:E:1301:DTP:O1G	2.35	0.59
1:E:308:GLU:HA	1:E:308:GLU:OE2	2.01	0.59
1:E:317:CYS:SG	1:E:324:VAL:HG23	2.43	0.59
1:E:528:GLU:HG3	1:E:529:TYR:N	2.15	0.59
1:E:543:ASN:HB2	1:E:576:VAL:CG2	2.33	0.59
1:E:595:LEU:CG	1:E:1201:TRP:HH2	2.13	0.59
1:E:1201:TRP:HB2	1:E:1210:SER:C	2.22	0.59
1:G:317:CYS:SG	1:G:324:VAL:HG23	2.43	0.59
1:G:678:ASP:OD2	1:G:680:LYS:CE	2.46	0.59
1:G:999:ARG:HG2	1:G:1030:TRP:CD2	2.37	0.59
1:I:136:ILE:O	1:I:140:LEU:N	2.33	0.59
1:I:400:LEU:HB3	1:I:404:TRP:HZ3	1.68	0.59
1:K:136:ILE:O	1:K:140:LEU:N	2.33	0.59
1:K:658:ASP:OD2	1:K:677:VAL:CG1	2.51	0.59
1:K:821:ILE:HB	1:K:835:ILE:HB	1.83	0.59
1:K:849:SER:HB3	1:K:854:LEU:HB2	1.84	0.59
1:M:212:PHE:CE2	1:M:230:LEU:CD2	2.85	0.59
1:M:813:ILE:HD12	1:M:826:ILE:HG21	1.85	0.59
1:M:1185:PHE:O	1:M:1229:PHE:HZ	1.78	0.59
1:A:111:ARG:HH11	1:M:146:GLU:CG	2.15	0.59
1:A:678:ASP:OD2	1:A:680:LYS:CE	2.46	0.59
1:A:861:GLN:CA	1:A:884:TRP:HD1	2.15	0.59
1:A:885:VAL:HG23	1:A:886:HIS:N	2.18	0.59
1:C:999:ARG:HG2	1:C:1030:TRP:CD2	2.37	0.59
1:C:1201:TRP:HB2	1:C:1210:SER:C	2.22	0.59
1:C:1233:VAL:HG11	1:C:1243:ILE:CG1	2.28	0.59
1:C:1237:ASN:O	1:C:1238:LEU:HB2	2.02	0.59
1:E:107:THR:HB	1:E:110:VAL:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:122:ARG:CZ	1:E:126:PHE:CE2	2.85	0.59
1:E:251:LEU:HD12	1:E:269:VAL:HG12	1.85	0.59
1:E:864:VAL:CG2	1:E:885:VAL:HG11	2.32	0.59
1:G:146:GLU:HG2	1:I:111:ARG:HH11	1.68	0.59
1:G:345:LEU:HD11	1:G:353:ILE:HD13	1.85	0.59
1:G:658:ASP:OD2	1:G:677:VAL:CG1	2.51	0.59
1:I:556:GLY:O	1:I:557:ARG:C	2.41	0.59
1:I:658:ASP:OD2	1:I:677:VAL:CG1	2.51	0.59
1:I:885:VAL:HG23	1:I:886:HIS:N	2.18	0.59
1:I:1200:LYS:HE3	1:I:1211:GLN:CB	2.33	0.59
1:K:138:GLN:HE21	1:K:139:LYS:N	2.01	0.59
1:K:364:LEU:HD13	1:K:364:LEU:C	2.24	0.59
1:K:813:ILE:HD12	1:K:826:ILE:HG21	1.85	0.59
1:M:285:SER:OG	1:M:286:LEU:N	2.34	0.59
1:M:821:ILE:HB	1:M:835:ILE:HB	1.83	0.59
1:A:146:GLU:HG2	1:C:111:ARG:HH11	1.68	0.59
1:A:212:PHE:CE2	1:A:230:LEU:CD2	2.86	0.59
1:A:748:HIS:HD2	1:A:804:CYS:HB2	1.68	0.59
1:C:212:PHE:HE2	1:C:230:LEU:HD23	1.67	0.59
1:C:554:LEU:HD11	1:C:1214:TYR:CZ	2.38	0.59
1:C:666:SER:OG	1:C:670:ARG:N	2.34	0.59
1:C:885:VAL:HG23	1:C:886:HIS:N	2.18	0.59
1:E:1185:PHE:CZ	1:E:1192:LEU:HD11	2.35	0.59
1:G:251:LEU:HD12	1:G:269:VAL:HG12	1.85	0.59
1:G:308:GLU:HA	1:G:308:GLU:OE2	2.00	0.59
1:G:543:ASN:HB2	1:G:576:VAL:CG2	2.33	0.59
1:G:635:ALA:O	1:G:637:LYS:HG3	2.02	0.59
1:I:317:CYS:SG	1:I:324:VAL:HG23	2.43	0.59
1:K:212:PHE:HE2	1:K:230:LEU:CD2	2.14	0.59
1:K:1028:GLN:HE21	1:K:1030:TRP:HB2	1.68	0.59
1:M:138:GLN:HE21	1:M:139:LYS:N	2.01	0.59
1:M:332:ARG:HH11	1:M:332:ARG:CG	2.14	0.59
1:M:1143:ALA:CB	1:M:1183:LEU:CD2	2.80	0.59
1:M:1180:VAL:O	1:M:1180:VAL:HG12	2.01	0.59
1:A:212:PHE:HE2	1:A:230:LEU:HD23	1.67	0.58
1:A:251:LEU:HD12	1:A:269:VAL:HG12	1.85	0.58
1:A:364:LEU:HD13	1:A:364:LEU:C	2.24	0.58
1:A:588:VAL:HG12	1:A:1248:GLU:C	2.22	0.58
1:A:849:SER:HB3	1:A:854:LEU:HB2	1.84	0.58
1:C:147:PRO:HG3	1:E:121:GLN:NE2	2.18	0.58
1:C:212:PHE:CE2	1:C:230:LEU:CD2	2.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:251:LEU:HD12	1:C:269:VAL:HG12	1.85	0.58
1:C:345:LEU:HD11	1:C:353:ILE:HD13	1.85	0.58
1:C:364:LEU:HD13	1:C:364:LEU:C	2.24	0.58
1:C:588:VAL:HG12	1:C:1248:GLU:C	2.23	0.58
1:C:748:HIS:HD2	1:C:804:CYS:HB2	1.68	0.58
1:E:138:GLN:HE21	1:E:139:LYS:N	2.01	0.58
1:E:553:HIS:CD2	1:E:554:LEU:HB2	2.38	0.58
1:E:588:VAL:HG12	1:E:1248:GLU:C	2.23	0.58
1:E:862:TYR:CE1	1:E:881:HIS:HB3	2.38	0.58
1:E:1200:LYS:HE3	1:E:1211:GLN:CB	2.33	0.58
1:I:308:GLU:HA	1:I:308:GLU:OE2	2.01	0.58
1:I:364:LEU:HD13	1:I:364:LEU:C	2.24	0.58
1:I:1067:VAL:HB	1:I:1081:PHE:HB2	1.84	0.58
1:K:146:GLU:CG	1:M:111:ARG:HH11	2.15	0.58
1:K:390:GLN:HB3	1:K:393:VAL:HG13	1.85	0.58
1:M:251:LEU:HD12	1:M:269:VAL:HG12	1.85	0.58
1:M:345:LEU:HD11	1:M:353:ILE:HD13	1.85	0.58
1:M:364:LEU:HD13	1:M:364:LEU:C	2.24	0.58
1:M:556:GLY:O	1:M:557:ARG:C	2.41	0.58
1:M:861:GLN:CA	1:M:884:TRP:HD1	2.15	0.58
1:A:333:ASP:CB	1:A:334:PHE:CE1	2.85	0.58
1:C:136:ILE:O	1:C:140:LEU:N	2.33	0.58
1:C:146:GLU:HG2	1:E:111:ARG:HH11	1.68	0.58
1:C:543:ASN:HB2	1:C:576:VAL:CG2	2.33	0.58
1:G:212:PHE:HE2	1:G:230:LEU:CD2	2.14	0.58
1:G:885:VAL:HG23	1:G:886:HIS:N	2.18	0.58
1:G:1067:VAL:HB	1:G:1081:PHE:HB2	1.84	0.58
1:I:882:LEU:O	1:I:882:LEU:HD23	2.04	0.58
1:K:317:CYS:SG	1:K:324:VAL:HG23	2.43	0.58
1:M:748:HIS:HD2	1:M:804:CYS:HB2	1.68	0.58
1:A:138:GLN:HE21	1:A:139:LYS:N	2.01	0.58
1:E:146:GLU:HG2	1:G:111:ARG:HH11	1.68	0.58
1:E:147:PRO:HG3	1:G:121:GLN:NE2	2.18	0.58
1:E:364:LEU:HD13	1:E:364:LEU:C	2.24	0.58
1:E:390:GLN:HB3	1:E:393:VAL:HG13	1.85	0.58
1:E:400:LEU:HB3	1:E:404:TRP:HZ3	1.68	0.58
1:E:1028:GLN:HE21	1:E:1030:TRP:HB2	1.68	0.58
1:G:107:THR:HB	1:G:110:VAL:HG23	1.84	0.58
1:G:400:LEU:HB3	1:G:404:TRP:HZ3	1.68	0.58
1:G:553:HIS:CD2	1:G:554:LEU:HB2	2.38	0.58
1:G:556:GLY:O	1:G:557:ARG:C	2.41	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:LEU:HD21	1:A:484:TYR:OH	2.03	0.58
1:A:544:PHE:CD1	1:A:576:VAL:HG22	2.39	0.58
1:C:266:ASP:HB2	1:C:269:VAL:HG23	1.85	0.58
1:C:285:SER:OG	1:C:286:LEU:N	2.35	0.58
1:E:556:GLY:O	1:E:557:ARG:C	2.41	0.58
1:E:658:ASP:OD2	1:E:677:VAL:CG1	2.51	0.58
1:E:1136:SER:HA	1:E:1185:PHE:CD2	2.39	0.58
1:E:1171:GLU:HG3	1:E:1172:GLY:N	2.06	0.58
1:G:364:LEU:HD13	1:G:364:LEU:C	2.24	0.58
1:I:748:HIS:HD2	1:I:804:CYS:HB2	1.68	0.58
1:I:999:ARG:CD	1:I:1030:TRP:CD1	2.76	0.58
1:K:885:VAL:HG23	1:K:886:HIS:N	2.18	0.58
1:K:1200:LYS:HE3	1:K:1211:GLN:CB	2.33	0.58
1:A:345:LEU:HD11	1:A:353:ILE:HD13	1.85	0.58
1:A:558:GLN:CB	1:A:559:PRO:CD	2.78	0.58
1:A:1027:ILE:HD11	1:A:1047:VAL:HG11	1.86	0.58
1:C:107:THR:HB	1:C:110:VAL:HG23	1.84	0.58
1:C:658:ASP:OD2	1:C:677:VAL:CG1	2.51	0.58
1:C:849:SER:HB3	1:C:854:LEU:HB2	1.84	0.58
1:C:1027:ILE:HD11	1:C:1047:VAL:HG11	1.86	0.58
1:C:1094:SER:HB3	1:C:1135:PHE:CG	2.39	0.58
1:C:1200:LYS:HE3	1:C:1211:GLN:CB	2.33	0.58
1:E:544:PHE:CD1	1:E:576:VAL:HG22	2.39	0.58
1:E:849:SER:HB3	1:E:854:LEU:HB2	1.84	0.58
1:E:1094:SER:HB3	1:E:1135:PHE:CG	2.39	0.58
1:G:138:GLN:HE21	1:G:139:LYS:N	2.01	0.58
1:G:431:LYS:HZ2	1:I:336:ASN:HB3	1.62	0.58
1:G:748:HIS:HD2	1:G:804:CYS:HB2	1.68	0.58
1:G:1028:GLN:HE21	1:G:1030:TRP:HB2	1.68	0.58
1:I:212:PHE:HE2	1:I:230:LEU:HD23	1.67	0.58
1:I:1094:SER:HB3	1:I:1135:PHE:CG	2.39	0.58
5:J:201:HEM:CBC	5:J:201:HEM:HMC1	2.28	0.58
1:K:251:LEU:HD12	1:K:269:VAL:HG12	1.85	0.58
1:K:400:LEU:HB3	1:K:404:TRP:HZ3	1.68	0.58
1:K:553:HIS:CD2	1:K:554:LEU:HB2	2.38	0.58
1:K:1094:SER:HB3	1:K:1135:PHE:CG	2.39	0.58
1:K:1136:SER:HA	1:K:1185:PHE:CD2	2.38	0.58
1:M:885:VAL:HG23	1:M:886:HIS:N	2.18	0.58
1:A:588:VAL:CG1	1:A:1248:GLU:C	2.72	0.58
1:A:1200:LYS:HE3	1:A:1211:GLN:CB	2.33	0.58
1:C:427:ASP:OD2	1:C:434:ARG:HG3	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:473:LEU:HD21	1:C:484:TYR:OH	2.03	0.58
1:C:556:GLY:O	1:C:557:ARG:C	2.41	0.58
1:C:862:TYR:CE1	1:C:881:HIS:HB3	2.38	0.58
1:E:212:PHE:CE2	1:E:230:LEU:CD2	2.86	0.58
1:E:748:HIS:HD2	1:E:804:CYS:HB2	1.68	0.58
1:E:813:ILE:HD12	1:E:826:ILE:HG21	1.85	0.58
1:G:212:PHE:CE2	1:G:230:LEU:CD2	2.86	0.58
1:G:1136:SER:HA	1:G:1185:PHE:CD2	2.39	0.58
1:G:1200:LYS:HE3	1:G:1211:GLN:CB	2.33	0.58
1:I:251:LEU:HD12	1:I:269:VAL:HG12	1.85	0.58
1:I:1185:PHE:CD1	1:I:1192:LEU:CG	2.63	0.58
1:K:196:LEU:O	1:K:196:LEU:HD12	2.03	0.58
1:K:544:PHE:CD1	1:K:576:VAL:HG22	2.39	0.58
1:K:1233:VAL:HG11	1:K:1243:ILE:CG1	2.28	0.58
1:M:196:LEU:HD12	1:M:196:LEU:O	2.03	0.58
1:M:543:ASN:HB2	1:M:576:VAL:CG2	2.33	0.58
1:M:553:HIS:CD2	1:M:554:LEU:HB2	2.38	0.58
1:M:554:LEU:HD11	1:M:1214:TYR:CZ	2.38	0.58
1:M:984:ALA:CA	1:M:999:ARG:O	2.47	0.58
1:M:1027:ILE:HD11	1:M:1047:VAL:HG11	1.86	0.58
1:M:1028:GLN:HE21	1:M:1030:TRP:HB2	1.68	0.58
1:A:427:ASP:OD2	1:A:434:ARG:HG3	2.02	0.58
1:A:813:ILE:HD12	1:A:826:ILE:HG21	1.85	0.58
1:E:212:PHE:HE2	1:E:230:LEU:HD23	1.67	0.58
1:E:1113:SER:H	1:E:1120:LEU:HD13	1.69	0.58
1:G:189:LYS:O	1:G:190:GLN:OE1	2.22	0.58
1:G:544:PHE:CD1	1:G:576:VAL:HG22	2.39	0.58
1:G:554:LEU:HD11	1:G:1214:TYR:CZ	2.38	0.58
1:G:862:TYR:CE1	1:G:881:HIS:HB3	2.38	0.58
1:I:138:GLN:HE21	1:I:139:LYS:N	2.01	0.58
1:I:179:PRO:HD3	1:I:237:ARG:NH1	2.15	0.58
1:I:427:ASP:OD2	1:I:434:ARG:HG3	2.02	0.58
1:I:813:ILE:HD12	1:I:826:ILE:HG21	1.85	0.58
1:I:1136:SER:HA	1:I:1185:PHE:CD2	2.39	0.58
1:K:212:PHE:HE2	1:K:230:LEU:HD23	1.67	0.58
1:K:1180:VAL:O	1:K:1180:VAL:HG12	2.01	0.58
1:M:1200:LYS:HE3	1:M:1211:GLN:CB	2.33	0.58
1:A:122:ARG:NE	1:A:126:PHE:CZ	2.71	0.58
1:A:554:LEU:HD11	1:A:1214:TYR:CZ	2.38	0.58
1:A:882:LEU:O	1:A:882:LEU:HD23	2.04	0.58
1:A:999:ARG:HG2	1:A:1030:TRP:CD2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:882:LEU:O	1:C:882:LEU:HD23	2.04	0.58
1:C:1113:SER:H	1:C:1120:LEU:HD13	1.69	0.58
1:E:885:VAL:HG23	1:E:886:HIS:N	2.18	0.58
1:G:1094:SER:HB3	1:G:1135:PHE:CG	2.39	0.58
1:G:1113:SER:H	1:G:1120:LEU:HD13	1.69	0.58
1:I:122:ARG:NE	1:I:126:PHE:CZ	2.71	0.58
1:I:189:LYS:O	1:I:190:GLN:OE1	2.22	0.58
1:I:196:LEU:HD12	1:I:196:LEU:O	2.03	0.58
1:I:496:MET:HA	1:I:496:MET:HE3	1.84	0.58
1:I:544:PHE:CD1	1:I:576:VAL:HG11	2.36	0.58
1:I:708:THR:HG22	1:I:710:SER:H	1.69	0.58
1:I:1028:GLN:HE21	1:I:1030:TRP:HB2	1.68	0.58
1:K:171:HIS:NE2	1:K:175:GLU:CG	2.66	0.58
1:K:1213:PHE:HE2	1:K:1215:THR:HG22	1.69	0.58
1:M:390:GLN:HB3	1:M:393:VAL:HG13	1.85	0.58
1:M:473:LEU:HD21	1:M:484:TYR:OH	2.03	0.58
1:M:882:LEU:O	1:M:882:LEU:HD23	2.03	0.58
1:M:946:LEU:HD11	1:M:959:LEU:HD12	1.86	0.58
1:M:999:ARG:HG2	1:M:1030:TRP:CD2	2.37	0.58
1:M:1094:SER:HB3	1:M:1135:PHE:CG	2.39	0.58
5:N:201:HEM:CBC	5:N:201:HEM:HMC1	2.28	0.58
1:A:543:ASN:HB2	1:A:576:VAL:CG2	2.33	0.58
1:C:390:GLN:HB3	1:C:393:VAL:HG13	1.85	0.58
1:C:544:PHE:CD1	1:C:576:VAL:HG22	2.39	0.58
1:E:473:LEU:HD21	1:E:484:TYR:OH	2.03	0.58
1:E:902:ASP:CB	2:F:72:LYS:HZ2	2.15	0.58
1:I:543:ASN:HB2	1:I:576:VAL:CG2	2.33	0.58
1:I:544:PHE:CD1	1:I:576:VAL:HG22	2.39	0.58
1:K:122:ARG:NE	1:K:126:PHE:CZ	2.71	0.58
1:M:231:MET:SD	1:M:258:CYS:SG	2.97	0.58
1:M:1185:PHE:CZ	1:M:1192:LEU:HD11	2.35	0.58
1:A:595:LEU:CD2	1:A:1244:LEU:CD1	2.48	0.58
1:A:708:THR:HG22	1:A:710:SER:H	1.69	0.58
1:A:921:MET:HA	1:A:1240:ILE:HG13	1.85	0.58
1:A:946:LEU:HD11	1:A:959:LEU:HD12	1.86	0.58
1:C:921:MET:HA	1:C:1240:ILE:HG13	1.85	0.58
1:C:1028:GLN:HE21	1:C:1030:TRP:HB2	1.68	0.58
1:E:364:LEU:CD1	1:E:368:MET:HE2	2.34	0.58
1:E:554:LEU:HD11	1:E:1214:TYR:CZ	2.38	0.58
1:E:639:LEU:N	1:E:653:ILE:CG2	2.63	0.58
1:E:876:ALA:CB	1:E:914:VAL:O	2.45	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1027:ILE:HD11	1:E:1047:VAL:HG11	1.86	0.58
1:G:360:ASP:C	1:G:361:TYR:CD1	2.78	0.58
1:I:997:GLN:HG3	1:I:1033:GLN:H	1.69	0.58
1:M:1113:SER:H	1:M:1120:LEU:HD13	1.69	0.58
1:A:171:HIS:NE2	1:A:175:GLU:CG	2.66	0.57
1:A:1136:SER:HA	1:A:1185:PHE:CD2	2.38	0.57
1:C:588:VAL:CG1	1:C:1248:GLU:C	2.72	0.57
1:C:813:ILE:HD12	1:C:826:ILE:HG21	1.85	0.57
5:D:201:HEM:CBC	5:D:201:HEM:HMC1	2.28	0.57
1:E:122:ARG:NE	1:E:126:PHE:CZ	2.71	0.57
1:E:882:LEU:O	1:E:882:LEU:HD23	2.04	0.57
1:E:997:GLN:HG3	1:E:1033:GLN:H	1.69	0.57
1:G:196:LEU:HD12	1:G:196:LEU:O	2.03	0.57
1:G:212:PHE:HE2	1:G:230:LEU:HD23	1.67	0.57
1:G:813:ILE:HD12	1:G:826:ILE:HG21	1.85	0.57
1:I:902:ASP:CB	2:J:72:LYS:NZ	2.67	0.57
1:I:1113:SER:H	1:I:1120:LEU:HD13	1.69	0.57
1:I:1213:PHE:HE2	1:I:1215:THR:HG22	1.69	0.57
1:K:554:LEU:HD11	1:K:1214:TYR:CZ	2.38	0.57
1:K:882:LEU:O	1:K:882:LEU:HD23	2.03	0.57
1:M:544:PHE:CD1	1:M:576:VAL:HG22	2.39	0.57
1:A:1113:SER:H	1:A:1120:LEU:HD13	1.69	0.57
1:A:1233:VAL:HG11	1:A:1243:ILE:CG1	2.28	0.57
1:C:122:ARG:NE	1:C:126:PHE:CZ	2.71	0.57
1:C:179:PRO:HD3	1:C:237:ARG:NH1	2.15	0.57
1:E:921:MET:HA	1:E:1240:ILE:HG13	1.85	0.57
1:E:1237:ASN:O	1:E:1238:LEU:HB2	2.02	0.57
1:G:364:LEU:CD1	1:G:368:MET:HE1	2.27	0.57
1:I:931:GLN:O	1:I:931:GLN:HG3	2.05	0.57
1:K:189:LYS:O	1:K:190:GLN:OE1	2.22	0.57
1:K:360:ASP:C	1:K:361:TYR:CD1	2.78	0.57
1:K:520:ALA:HB2	1:K:647:GLY:O	2.05	0.57
1:K:556:GLY:O	1:K:557:ARG:C	2.41	0.57
1:M:122:ARG:NE	1:M:126:PHE:CZ	2.71	0.57
1:M:588:VAL:CG1	1:M:1248:GLU:C	2.72	0.57
1:M:1136:SER:HA	1:M:1185:PHE:CD2	2.39	0.57
1:M:1233:VAL:HG12	1:M:1243:ILE:HG23	1.86	0.57
1:A:196:LEU:HD12	1:A:196:LEU:O	2.04	0.57
1:A:400:LEU:HB3	1:A:404:TRP:HZ3	1.68	0.57
1:C:138:GLN:HE21	1:C:139:LYS:N	2.01	0.57
1:C:678:ASP:OD2	1:C:680:LYS:CE	2.46	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:902:ASP:CB	2:F:72:LYS:NZ	2.67	0.57
1:G:588:VAL:CG1	1:G:1248:GLU:C	2.72	0.57
1:I:554:LEU:HD11	1:I:1214:TYR:CZ	2.38	0.57
1:K:333:ASP:CB	1:K:334:PHE:CE1	2.85	0.57
1:A:136:ILE:O	1:A:140:LEU:N	2.33	0.57
1:A:902:ASP:CB	2:B:72:LYS:NZ	2.67	0.57
1:A:1213:PHE:CD2	1:A:1214:TYR:N	2.73	0.57
1:C:360:ASP:C	1:C:361:TYR:CD1	2.78	0.57
1:G:122:ARG:NE	1:G:126:PHE:CZ	2.71	0.57
1:G:708:THR:HG22	1:G:710:SER:H	1.69	0.57
1:G:931:GLN:O	1:G:931:GLN:HG3	2.05	0.57
1:G:948:LEU:HD12	1:G:957:ASP:HB3	1.86	0.57
1:G:1181:THR:HG22	1:G:1182:ASP:HB2	1.86	0.57
1:G:1213:PHE:CD2	1:G:1214:TYR:N	2.73	0.57
1:K:473:LEU:HD21	1:K:484:TYR:OH	2.03	0.57
1:K:588:VAL:CG1	1:K:1248:GLU:C	2.72	0.57
1:K:1027:ILE:HD11	1:K:1047:VAL:HG11	1.86	0.57
5:L:201:HEM:CBC	5:L:201:HEM:HMC1	2.28	0.57
1:M:360:ASP:C	1:M:361:TYR:CD1	2.78	0.57
1:M:520:ALA:HB2	1:M:647:GLY:O	2.04	0.57
1:M:708:THR:HG22	1:M:710:SER:H	1.69	0.57
1:M:902:ASP:CB	2:N:72:LYS:NZ	2.67	0.57
1:C:140:LEU:O	1:C:143:LEU:CD2	2.53	0.57
1:C:1185:PHE:CZ	1:C:1192:LEU:HD11	2.35	0.57
1:C:1213:PHE:CD2	1:C:1214:TYR:N	2.73	0.57
1:E:189:LYS:O	1:E:190:GLN:OE1	2.22	0.57
1:E:206:LEU:HD21	1:E:235:HIS:CD2	2.39	0.57
1:I:1181:THR:HG22	1:I:1182:ASP:HB2	1.87	0.57
1:K:931:GLN:O	1:K:931:GLN:HG3	2.05	0.57
1:M:212:PHE:HE2	1:M:230:LEU:HD23	1.67	0.57
1:M:316:GLU:O	1:M:318:LYS:CG	2.50	0.57
1:M:876:ALA:CB	1:M:914:VAL:O	2.45	0.57
1:M:1185:PHE:HE1	1:M:1192:LEU:HD12	1.53	0.57
1:M:1233:VAL:HG11	1:M:1243:ILE:CG1	2.28	0.57
1:A:390:GLN:HB3	1:A:393:VAL:HG13	1.85	0.57
1:A:658:ASP:OD2	1:A:677:VAL:CG1	2.51	0.57
1:A:948:LEU:HD12	1:A:957:ASP:HB3	1.86	0.57
1:A:1094:SER:HB3	1:A:1135:PHE:CG	2.39	0.57
1:C:400:LEU:HB3	1:C:404:TRP:HZ3	1.68	0.57
1:C:1233:VAL:HG12	1:C:1243:ILE:HG23	1.86	0.57
1:E:588:VAL:CG1	1:E:1248:GLU:C	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:678:ASP:OD2	1:E:680:LYS:CE	2.46	0.57
1:E:1181:THR:HG22	1:E:1182:ASP:HB2	1.86	0.57
1:G:921:MET:HA	1:G:1240:ILE:HG13	1.85	0.57
1:I:278:TYR:N	1:I:278:TYR:CD1	2.73	0.57
1:I:360:ASP:C	1:I:361:TYR:CD1	2.78	0.57
1:I:520:ALA:HB2	1:I:647:GLY:O	2.05	0.57
1:I:948:LEU:HD12	1:I:957:ASP:HB3	1.86	0.57
1:K:206:LEU:HD21	1:K:235:HIS:CD2	2.39	0.57
1:K:543:ASN:HB2	1:K:576:VAL:CG2	2.33	0.57
1:K:902:ASP:CB	2:L:72:LYS:NZ	2.67	0.57
1:M:189:LYS:O	1:M:190:GLN:OE1	2.22	0.57
1:M:921:MET:HA	1:M:1240:ILE:HG13	1.85	0.57
1:M:948:LEU:HD12	1:M:957:ASP:HB3	1.86	0.57
1:A:140:LEU:O	1:A:143:LEU:CD2	2.53	0.57
1:A:334:PHE:CD1	1:A:334:PHE:N	2.73	0.57
1:A:360:ASP:C	1:A:361:TYR:CD1	2.78	0.57
1:A:678:ASP:OD2	1:A:680:LYS:HG3	2.05	0.57
1:C:1008:HIS:CE1	1:C:1010:GLN:HB2	2.40	0.57
1:G:544:PHE:CD1	1:G:576:VAL:HG11	2.36	0.57
1:G:882:LEU:HD23	1:G:882:LEU:O	2.03	0.57
1:G:1233:VAL:HG12	1:G:1243:ILE:HG23	1.86	0.57
1:I:146:GLU:CG	1:K:111:ARG:HH11	2.15	0.57
1:I:473:LEU:HD21	1:I:484:TYR:OH	2.03	0.57
1:I:1008:HIS:CE1	1:I:1010:GLN:HB2	2.40	0.57
1:K:544:PHE:CD1	1:K:576:VAL:HG11	2.36	0.57
1:K:678:ASP:OD2	1:K:680:LYS:HG3	2.05	0.57
1:K:748:HIS:HD2	1:K:804:CYS:HB2	1.68	0.57
1:K:1113:SER:H	1:K:1120:LEU:HD13	1.69	0.57
1:M:400:LEU:HB3	1:M:404:TRP:HZ3	1.68	0.57
1:M:1092:ASP:HB2	1:M:1133:SER:O	2.05	0.57
1:A:486:PHE:N	1:A:486:PHE:CD1	2.73	0.57
1:C:1136:SER:HA	1:C:1185:PHE:CD2	2.39	0.57
1:E:140:LEU:O	1:E:143:LEU:CD2	2.53	0.57
1:E:196:LEU:HD12	1:E:196:LEU:O	2.03	0.57
1:E:360:ASP:C	1:E:361:TYR:CD1	2.78	0.57
1:E:1213:PHE:CD2	1:E:1214:TYR:N	2.73	0.57
1:E:1220:LEU:HG	1:E:1236:ASP:CG	2.25	0.57
1:G:136:ILE:O	1:G:140:LEU:N	2.33	0.57
1:G:334:PHE:CD1	1:G:334:PHE:N	2.73	0.57
1:I:596:GLU:HB2	1:I:1245:GLN:O	2.04	0.57
1:I:603:ILE:HD13	1:I:1240:ILE:HG21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1027:ILE:HD11	1:I:1047:VAL:HG11	1.86	0.57
1:I:1233:VAL:HG12	1:I:1243:ILE:HG23	1.86	0.57
1:K:708:THR:HG22	1:K:710:SER:H	1.69	0.57
1:K:946:LEU:HD11	1:K:959:LEU:HD12	1.86	0.57
1:K:1008:HIS:CE1	1:K:1010:GLN:HB2	2.40	0.57
1:K:1220:LEU:HG	1:K:1236:ASP:CG	2.25	0.57
1:M:486:PHE:N	1:M:486:PHE:CD1	2.73	0.57
1:M:678:ASP:OD2	1:M:680:LYS:HG3	2.05	0.57
1:A:151:THR:HB	1:A:279:VAL:HG12	1.87	0.57
1:A:206:LEU:HD21	1:A:235:HIS:CD2	2.39	0.57
1:A:334:PHE:HB3	1:A:337:ARG:HG2	1.86	0.57
1:A:453:LEU:HD11	1:A:454:GLN:NE2	2.00	0.57
1:A:1185:PHE:CZ	1:A:1192:LEU:HD11	2.35	0.57
1:A:1187:PRO:HG2	1:A:1229:PHE:HB3	1.87	0.57
1:C:151:THR:HB	1:C:279:VAL:HG12	1.87	0.57
1:C:196:LEU:O	1:C:196:LEU:HD12	2.03	0.57
1:C:206:LEU:HD21	1:C:235:HIS:CD2	2.39	0.57
1:C:453:LEU:HD11	1:C:454:GLN:NE2	2.00	0.57
1:C:1200:LYS:HD3	1:C:1202:TRP:NE1	2.20	0.57
1:E:334:PHE:CD1	1:E:334:PHE:N	2.73	0.57
1:G:400:LEU:HB3	1:G:404:TRP:CZ3	2.40	0.57
1:G:1027:ILE:HD11	1:G:1047:VAL:HG11	1.86	0.57
1:G:1213:PHE:O	1:G:1214:TYR:CB	2.49	0.57
1:I:400:LEU:HB3	1:I:404:TRP:CZ3	2.40	0.57
1:I:588:VAL:CG1	1:I:1248:GLU:C	2.72	0.57
1:I:678:ASP:OD2	1:I:680:LYS:HG3	2.05	0.57
1:K:151:THR:HB	1:K:279:VAL:HG12	1.87	0.57
1:K:278:TYR:N	1:K:278:TYR:CD1	2.73	0.57
1:K:316:GLU:O	1:K:318:LYS:CG	2.50	0.57
1:K:1181:THR:HG22	1:K:1182:ASP:HB2	1.87	0.57
1:M:140:LEU:O	1:M:143:LEU:CD2	2.53	0.57
1:M:997:GLN:HG3	1:M:1033:GLN:H	1.69	0.57
1:A:400:LEU:HB3	1:A:404:TRP:CZ3	2.40	0.57
1:A:1220:LEU:HG	1:A:1236:ASP:CG	2.25	0.57
1:A:1233:VAL:HG12	1:A:1243:ILE:HG23	1.86	0.57
1:C:334:PHE:HB3	1:C:337:ARG:HG2	1.87	0.57
1:C:486:PHE:N	1:C:486:PHE:CD1	2.73	0.57
1:C:639:LEU:N	1:C:653:ILE:CG2	2.63	0.57
1:C:678:ASP:OD2	1:C:680:LYS:HG3	2.05	0.57
1:C:902:ASP:CB	2:D:72:LYS:NZ	2.67	0.57
1:E:400:LEU:HB3	1:E:404:TRP:CZ3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:948:LEU:HD12	1:E:957:ASP:HB3	1.86	0.57
1:G:206:LEU:HD21	1:G:235:HIS:CD2	2.39	0.57
1:G:902:ASP:CB	2:H:72:LYS:NZ	2.67	0.57
1:I:206:LEU:HD21	1:I:235:HIS:CD2	2.39	0.57
1:I:1213:PHE:CD2	1:I:1214:TYR:N	2.73	0.57
1:I:1220:LEU:HG	1:I:1236:ASP:CG	2.25	0.57
1:K:374:MET:HA	1:K:374:MET:HE2	1.84	0.57
1:K:400:LEU:HB3	1:K:404:TRP:CZ3	2.40	0.57
1:K:603:ILE:HD13	1:K:1240:ILE:HG21	1.87	0.57
1:K:1046:THR:O	1:K:1062:SER:HB2	2.05	0.57
1:K:1213:PHE:CE2	1:K:1215:THR:HA	2.40	0.57
1:M:206:LEU:HD21	1:M:235:HIS:CD2	2.39	0.57
1:M:931:GLN:O	1:M:931:GLN:HG3	2.05	0.57
1:M:1046:THR:O	1:M:1062:SER:HB2	2.05	0.57
1:A:997:GLN:HG3	1:A:1033:GLN:H	1.69	0.56
1:A:1200:LYS:HD3	1:A:1202:TRP:NE1	2.20	0.56
1:A:1216:ASN:HB3	1:A:1242:TYR:OH	2.05	0.56
1:C:189:LYS:O	1:C:190:GLN:OE1	2.22	0.56
1:C:883:SER:OG	1:C:902:ASP:CA	2.53	0.56
1:C:946:LEU:HD11	1:C:959:LEU:HD12	1.86	0.56
1:C:997:GLN:HG3	1:C:1033:GLN:H	1.69	0.56
1:C:1092:ASP:HB2	1:C:1133:SER:O	2.05	0.56
1:E:453:LEU:HD11	1:E:454:GLN:NE2	2.00	0.56
1:E:708:THR:HG22	1:E:710:SER:H	1.69	0.56
1:E:946:LEU:HD11	1:E:959:LEU:HD12	1.86	0.56
1:G:140:LEU:O	1:G:143:LEU:CD2	2.53	0.56
1:G:883:SER:OG	1:G:902:ASP:CA	2.53	0.56
1:G:1182:ASP:C	1:G:1183:LEU:HD12	2.26	0.56
1:G:1220:LEU:HG	1:G:1236:ASP:CG	2.25	0.56
1:I:231:MET:SD	1:I:258:CYS:SG	2.97	0.56
1:I:427:ASP:HB3	1:I:434:ARG:O	2.05	0.56
1:K:525:GLU:O	1:K:528:GLU:HG2	2.05	0.56
1:K:1187:PRO:HG2	1:K:1229:PHE:HB3	1.87	0.56
1:K:1213:PHE:CD2	1:K:1214:TYR:N	2.73	0.56
1:M:334:PHE:HB3	1:M:337:ARG:HG2	1.87	0.56
1:M:615:THR:O	1:M:904:GLN:OE1	2.23	0.56
1:M:879:ARG:CB	1:M:921:MET:CE	2.73	0.56
1:A:544:PHE:CD1	1:A:576:VAL:CG2	2.88	0.56
1:A:564:VAL:CG1	1:A:583:GLN:HG2	2.35	0.56
1:C:278:TYR:N	1:C:278:TYR:CD1	2.73	0.56
1:C:400:LEU:HB3	1:C:404:TRP:CZ3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:999:ARG:CD	1:C:1030:TRP:CD1	2.76	0.56
1:C:1213:PHE:CE2	1:C:1215:THR:HA	2.40	0.56
1:C:1220:LEU:HG	1:C:1236:ASP:CG	2.25	0.56
1:E:427:ASP:HB3	1:E:434:ARG:O	2.05	0.56
1:G:295:LEU:O	1:G:299:VAL:HG22	2.05	0.56
1:G:544:PHE:CD1	1:G:576:VAL:CG2	2.88	0.56
1:G:595:LEU:CD2	1:G:1244:LEU:CD1	2.48	0.56
1:I:140:LEU:O	1:I:143:LEU:CD2	2.53	0.56
1:I:921:MET:HA	1:I:1240:ILE:HG13	1.85	0.56
1:I:1201:TRP:HE3	1:I:1210:SER:CB	2.16	0.56
1:K:596:GLU:HB2	1:K:1245:GLN:O	2.05	0.56
1:M:149:TRP:HZ3	1:M:251:LEU:HD22	1.70	0.56
1:M:151:THR:HB	1:M:279:VAL:HG12	1.87	0.56
1:M:278:TYR:N	1:M:278:TYR:CD1	2.73	0.56
1:M:334:PHE:CD1	1:M:334:PHE:N	2.73	0.56
1:M:596:GLU:HB2	1:M:1245:GLN:O	2.05	0.56
1:M:1187:PRO:HG2	1:M:1229:PHE:HB3	1.87	0.56
1:A:189:LYS:O	1:A:190:GLN:OE1	2.22	0.56
1:A:520:ALA:HB2	1:A:647:GLY:O	2.05	0.56
1:A:1046:THR:O	1:A:1062:SER:HB2	2.05	0.56
1:A:1092:ASP:HB2	1:A:1133:SER:O	2.05	0.56
1:C:171:HIS:NE2	1:C:175:GLU:CG	2.66	0.56
1:C:295:LEU:O	1:C:299:VAL:HG22	2.05	0.56
1:C:596:GLU:HB2	1:C:1245:GLN:O	2.05	0.56
1:C:708:THR:HG22	1:C:710:SER:H	1.69	0.56
1:C:1181:THR:HG22	1:C:1182:ASP:HB2	1.86	0.56
1:E:544:PHE:CD1	1:E:576:VAL:CG2	2.88	0.56
1:E:564:VAL:CG1	1:E:583:GLN:HG3	2.35	0.56
1:E:609:LEU:HB3	1:E:908:LEU:HB3	1.87	0.56
1:E:879:ARG:CB	1:E:921:MET:CE	2.73	0.56
1:E:931:GLN:O	1:E:931:GLN:HG3	2.05	0.56
1:E:1200:LYS:HD3	1:E:1202:TRP:NE1	2.20	0.56
1:G:596:GLU:HB2	1:G:1245:GLN:O	2.05	0.56
1:G:946:LEU:HD11	1:G:959:LEU:HD12	1.86	0.56
1:G:1213:PHE:CE2	1:G:1215:THR:HA	2.40	0.56
1:I:457:HIS:CE1	1:I:493:SER:HG	2.23	0.56
1:I:862:TYR:CE1	1:I:881:HIS:HB3	2.38	0.56
1:I:883:SER:OG	1:I:902:ASP:CA	2.53	0.56
1:I:1187:PRO:HG2	1:I:1229:PHE:HB3	1.87	0.56
1:I:1213:PHE:CE2	1:I:1215:THR:HA	2.40	0.56
1:I:1216:ASN:HB3	1:I:1242:TYR:OH	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:140:LEU:O	1:K:143:LEU:CD2	2.53	0.56
1:K:295:LEU:O	1:K:299:VAL:HG22	2.05	0.56
1:K:427:ASP:HB3	1:K:434:ARG:O	2.05	0.56
1:K:615:THR:O	1:K:904:GLN:OE1	2.23	0.56
1:K:921:MET:HA	1:K:1240:ILE:HG13	1.85	0.56
1:K:948:LEU:HD12	1:K:957:ASP:HB3	1.86	0.56
1:K:1201:TRP:HE3	1:K:1210:SER:CB	2.15	0.56
1:K:1233:VAL:HG12	1:K:1243:ILE:HG23	1.86	0.56
1:M:295:LEU:O	1:M:299:VAL:HG22	2.05	0.56
1:M:374:MET:HA	1:M:374:MET:HE2	1.84	0.56
1:M:400:LEU:HB3	1:M:404:TRP:CZ3	2.40	0.56
1:M:525:GLU:O	1:M:528:GLU:HG2	2.05	0.56
1:M:544:PHE:CD1	1:M:576:VAL:CG2	2.88	0.56
1:M:639:LEU:N	1:M:653:ILE:CG2	2.63	0.56
1:M:1213:PHE:CE2	1:M:1215:THR:HA	2.40	0.56
1:M:1213:PHE:CD2	1:M:1214:TYR:N	2.72	0.56
1:A:111:ARG:NH1	1:M:146:GLU:HG2	2.18	0.56
1:A:596:GLU:HB2	1:A:1245:GLN:O	2.05	0.56
1:A:615:THR:O	1:A:904:GLN:OE1	2.24	0.56
1:A:862:TYR:CE1	1:A:881:HIS:HB3	2.38	0.56
1:A:970:SER:OG	1:A:973:LEU:O	2.24	0.56
1:C:564:VAL:CG1	1:C:583:GLN:HG3	2.35	0.56
1:C:603:ILE:HD13	1:C:1240:ILE:HG21	1.87	0.56
1:C:1187:PRO:HG2	1:C:1229:PHE:HB3	1.87	0.56
1:E:419:VAL:HG22	1:E:424:LEU:O	2.06	0.56
1:E:788:LEU:HG	1:E:790:LEU:HG	1.88	0.56
1:E:1008:HIS:CE1	1:E:1010:GLN:HB2	2.40	0.56
1:G:419:VAL:HG22	1:G:424:LEU:O	2.06	0.56
1:G:603:ILE:HD13	1:G:1240:ILE:HG21	1.87	0.56
1:G:609:LEU:HB3	1:G:908:LEU:HB3	1.87	0.56
1:G:970:SER:OG	1:G:973:LEU:O	2.24	0.56
1:G:1201:TRP:HE3	1:G:1210:SER:CB	2.15	0.56
1:I:241:ILE:O	1:I:242:LEU:HD12	2.05	0.56
1:I:946:LEU:HD11	1:I:959:LEU:HD12	1.86	0.56
1:I:970:SER:OG	1:I:973:LEU:O	2.24	0.56
1:K:149:TRP:HZ3	1:K:251:LEU:HD22	1.70	0.56
1:K:513:LYS:CD	1:K:522:LEU:HG	2.36	0.56
1:K:1182:ASP:C	1:K:1183:LEU:HD12	2.26	0.56
1:M:171:HIS:NE2	1:M:175:GLU:CG	2.66	0.56
1:M:1200:LYS:HD3	1:M:1202:TRP:NE1	2.20	0.56
1:A:278:TYR:N	1:A:278:TYR:CD1	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:TYR:HH	1:M:409:GLU:HG3	1.69	0.56
1:C:334:PHE:CD1	1:C:334:PHE:N	2.73	0.56
1:C:609:LEU:HB3	1:C:908:LEU:HB3	1.87	0.56
1:C:788:LEU:HG	1:C:790:LEU:HG	1.88	0.56
1:C:1182:ASP:C	1:C:1183:LEU:HD12	2.26	0.56
1:E:151:THR:HB	1:E:279:VAL:HG12	1.87	0.56
1:E:564:VAL:CG1	1:E:583:GLN:HG2	2.36	0.56
1:E:1240:ILE:HG22	1:E:1242:TYR:CE1	2.41	0.56
1:G:473:LEU:HD21	1:G:484:TYR:OH	2.03	0.56
1:G:520:ALA:HB2	1:G:647:GLY:O	2.05	0.56
1:G:639:LEU:N	1:G:653:ILE:CG2	2.63	0.56
1:G:1092:ASP:HB2	1:G:1133:SER:O	2.05	0.56
1:G:1213:PHE:HE2	1:G:1215:THR:HG22	1.69	0.56
1:G:1240:ILE:HG22	1:G:1242:TYR:CE1	2.41	0.56
1:I:151:THR:HB	1:I:279:VAL:HG12	1.87	0.56
1:I:419:VAL:HG22	1:I:424:LEU:O	2.06	0.56
1:I:544:PHE:CD1	1:I:576:VAL:CG2	2.88	0.56
1:I:615:THR:O	1:I:904:GLN:OE1	2.23	0.56
1:K:788:LEU:HG	1:K:790:LEU:HG	1.88	0.56
1:K:997:GLN:HG3	1:K:1033:GLN:H	1.69	0.56
1:M:788:LEU:HG	1:M:790:LEU:HG	1.88	0.56
1:M:1181:THR:HG22	1:M:1182:ASP:HB2	1.87	0.56
1:A:146:GLU:HG2	1:C:111:ARG:NH1	2.19	0.56
1:C:419:VAL:HG22	1:C:424:LEU:O	2.06	0.56
1:C:1046:THR:CG2	1:C:1063:PHE:CE2	2.89	0.56
1:E:678:ASP:OD2	1:E:680:LYS:HG3	2.05	0.56
1:E:883:SER:OG	1:E:902:ASP:CA	2.53	0.56
1:E:1151:ILE:CG1	1:E:1167:PRO:HG2	2.36	0.56
1:E:1182:ASP:C	1:E:1183:LEU:HD12	2.26	0.56
1:G:241:ILE:O	1:G:242:LEU:HD12	2.05	0.56
1:I:295:LEU:O	1:I:299:VAL:HG22	2.05	0.56
1:I:513:LYS:CD	1:I:522:LEU:HG	2.36	0.56
1:K:241:ILE:O	1:K:242:LEU:HD12	2.05	0.56
1:A:147:PRO:HG3	1:C:121:GLN:OE1	2.06	0.56
1:A:316:GLU:O	1:A:318:LYS:CG	2.50	0.56
1:A:595:LEU:HD22	1:A:1244:LEU:HD12	1.78	0.56
1:A:1008:HIS:CE1	1:A:1010:GLN:HB2	2.40	0.56
1:A:1046:THR:CG2	1:A:1063:PHE:CE2	2.89	0.56
1:A:1182:ASP:C	1:A:1183:LEU:HD12	2.26	0.56
1:C:427:ASP:HB3	1:C:434:ARG:O	2.05	0.56
1:C:558:GLN:CB	1:C:559:PRO:CD	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1151:ILE:CG1	1:C:1167:PRO:HG2	2.36	0.56
1:C:1216:ASN:HB3	1:C:1242:TYR:OH	2.06	0.56
1:E:278:TYR:N	1:E:278:TYR:CD1	2.73	0.56
1:E:393:VAL:HG11	1:E:486:PHE:CE2	2.41	0.56
1:E:520:ALA:HB2	1:E:647:GLY:O	2.05	0.56
1:E:596:GLU:HB2	1:E:1245:GLN:O	2.05	0.56
1:E:1046:THR:CG2	1:E:1063:PHE:CE2	2.89	0.56
1:E:1092:ASP:HB2	1:E:1133:SER:O	2.05	0.56
1:E:1233:VAL:HG12	1:E:1243:ILE:HG23	1.86	0.56
1:G:278:TYR:N	1:G:278:TYR:CD1	2.73	0.56
1:G:678:ASP:OD2	1:G:680:LYS:HG3	2.05	0.56
1:G:1008:HIS:CE1	1:G:1010:GLN:HB2	2.40	0.56
1:I:525:GLU:O	1:I:528:GLU:HG2	2.05	0.56
1:I:862:TYR:CE1	1:I:885:VAL:HG12	2.21	0.56
1:K:879:ARG:HB3	1:K:921:MET:HE2	1.84	0.56
1:K:1200:LYS:HD3	1:K:1202:TRP:NE1	2.20	0.56
1:M:249:TRP:O	1:M:252:LYS:HB2	2.06	0.56
1:M:427:ASP:HB3	1:M:434:ARG:O	2.05	0.56
1:M:564:VAL:CG1	1:M:583:GLN:HG3	2.35	0.56
1:M:636:ASP:C	1:M:637:LYS:CG	2.74	0.56
1:M:1008:HIS:CE1	1:M:1010:GLN:HB2	2.40	0.56
1:A:393:VAL:HG11	1:A:486:PHE:CE2	2.41	0.56
1:A:603:ILE:HD13	1:A:1240:ILE:HG21	1.87	0.56
1:A:788:LEU:HG	1:A:790:LEU:HG	1.88	0.56
1:A:879:ARG:CB	1:A:921:MET:CE	2.73	0.56
1:C:948:LEU:HD12	1:C:957:ASP:HB3	1.86	0.56
1:C:1240:ILE:HG22	1:C:1242:TYR:CE1	2.41	0.56
1:E:525:GLU:O	1:E:528:GLU:HG2	2.05	0.56
1:G:149:TRP:HZ3	1:G:251:LEU:HD22	1.70	0.56
1:G:876:ALA:CB	1:G:914:VAL:O	2.45	0.56
1:G:997:GLN:HG3	1:G:1033:GLN:H	1.69	0.56
1:G:1187:PRO:HG2	1:G:1229:PHE:HB3	1.87	0.56
1:I:334:PHE:HB3	1:I:337:ARG:HG2	1.86	0.56
1:I:1046:THR:O	1:I:1062:SER:HB2	2.05	0.56
1:I:1092:ASP:HB2	1:I:1133:SER:O	2.05	0.56
1:I:1182:ASP:C	1:I:1183:LEU:HD12	2.26	0.56
1:K:486:PHE:N	1:K:486:PHE:CD1	2.73	0.56
1:K:544:PHE:CD1	1:K:576:VAL:CG2	2.88	0.56
1:K:944:ARG:NE	1:K:961:GLU:O	2.39	0.56
1:K:1216:ASN:HB3	1:K:1242:TYR:OH	2.06	0.56
1:M:883:SER:OG	1:M:902:ASP:CA	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:LEU:O	1:A:299:VAL:HG22	2.05	0.56
1:A:883:SER:OG	1:A:902:ASP:CA	2.53	0.56
1:C:1125:GLY:O	1:C:1152:ARG:NH1	2.39	0.56
1:E:295:LEU:O	1:E:299:VAL:HG22	2.05	0.56
1:E:334:PHE:HB3	1:E:337:ARG:HG2	1.87	0.56
1:G:143:LEU:HG	1:G:259:GLN:NE2	2.21	0.56
1:G:427:ASP:HB3	1:G:434:ARG:O	2.05	0.56
1:I:143:LEU:HG	1:I:259:GLN:NE2	2.21	0.56
1:I:944:ARG:NE	1:I:961:GLU:O	2.39	0.56
1:I:984:ALA:CA	1:I:999:ARG:O	2.47	0.56
1:I:1240:ILE:HG22	1:I:1242:TYR:CE1	2.41	0.56
1:K:595:LEU:CD1	1:K:1244:LEU:HD13	2.36	0.56
1:K:883:SER:OG	1:K:902:ASP:CA	2.53	0.56
1:K:1247:LEU:CD1	1:K:1248:GLU:H	2.13	0.56
1:M:241:ILE:O	1:M:242:LEU:HD12	2.05	0.56
1:M:1046:THR:CG2	1:M:1063:PHE:CE2	2.89	0.56
1:M:1182:ASP:C	1:M:1183:LEU:HD12	2.26	0.56
1:M:1216:ASN:HB3	1:M:1242:TYR:OH	2.06	0.56
1:M:1220:LEU:HG	1:M:1236:ASP:CG	2.25	0.56
1:A:249:TRP:O	1:A:252:LYS:HB2	2.06	0.56
1:A:609:LEU:HB3	1:A:908:LEU:HB3	1.87	0.56
1:A:1217:GLY:O	1:A:1218:THR:CG2	2.54	0.56
1:C:393:VAL:HG11	1:C:486:PHE:CE2	2.41	0.56
1:C:564:VAL:CG1	1:C:583:GLN:HG2	2.36	0.56
1:E:1213:PHE:CE2	1:E:1215:THR:HA	2.40	0.56
1:G:345:LEU:HD11	1:G:353:ILE:CD1	2.36	0.56
1:G:595:LEU:HG	1:G:1201:TRP:HH2	1.71	0.56
1:G:788:LEU:HG	1:G:790:LEU:HG	1.88	0.56
1:G:1182:ASP:HB3	1:G:1223:ILE:HG21	1.88	0.56
1:G:1200:LYS:HG3	1:G:1211:GLN:CA	2.36	0.56
1:I:1151:ILE:CG1	1:I:1167:PRO:HG2	2.36	0.56
1:I:1182:ASP:HB3	1:I:1223:ILE:HG21	1.88	0.56
1:K:170:ASP:OD1	1:K:171:HIS:N	2.39	0.56
1:K:882:LEU:CD2	1:K:882:LEU:N	2.39	0.56
1:K:970:SER:OG	1:K:973:LEU:O	2.24	0.56
1:K:1125:GLY:O	1:K:1152:ARG:NH1	2.39	0.56
1:K:1151:ILE:CG1	1:K:1167:PRO:HG2	2.36	0.56
1:K:1225:VAL:CG1	1:K:1229:PHE:CD1	2.89	0.56
1:K:1240:ILE:HG22	1:K:1242:TYR:CE1	2.41	0.56
1:M:970:SER:OG	1:M:973:LEU:O	2.24	0.56
1:A:241:ILE:O	1:A:242:LEU:HD12	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:544:PHE:HE1	1:A:576:VAL:CG1	1.88	0.55
1:A:1200:LYS:HG3	1:A:1211:GLN:CA	2.36	0.55
1:C:505:PHE:HZ	1:C:540:VAL:CG1	2.17	0.55
1:C:931:GLN:O	1:C:931:GLN:HG3	2.05	0.55
1:E:143:LEU:HG	1:E:259:GLN:NE2	2.21	0.55
1:E:149:TRP:HZ3	1:E:251:LEU:HD22	1.70	0.55
1:E:316:GLU:O	1:E:318:LYS:CG	2.50	0.55
1:E:544:PHE:CD1	1:E:576:VAL:HG11	2.36	0.55
1:G:249:TRP:O	1:G:252:LYS:HB2	2.06	0.55
1:G:344:GLN:HA	1:G:347:ASN:HD22	1.71	0.55
1:G:393:VAL:HG11	1:G:486:PHE:CE2	2.41	0.55
1:G:564:VAL:CG1	1:G:583:GLN:HG3	2.35	0.55
1:G:1151:ILE:CG1	1:G:1167:PRO:HG2	2.36	0.55
1:I:170:ASP:OD1	1:I:171:HIS:N	2.39	0.55
1:I:334:PHE:CD1	1:I:334:PHE:N	2.73	0.55
1:I:345:LEU:HD11	1:I:353:ILE:CD1	2.36	0.55
1:I:609:LEU:HB3	1:I:908:LEU:HB3	1.87	0.55
1:I:788:LEU:HG	1:I:790:LEU:HG	1.88	0.55
1:I:1200:LYS:HG3	1:I:1211:GLN:CA	2.36	0.55
1:K:639:LEU:N	1:K:653:ILE:CG2	2.62	0.55
1:K:1213:PHE:HE2	1:K:1215:THR:HA	1.72	0.55
1:M:603:ILE:HD13	1:M:1240:ILE:HG21	1.87	0.55
1:M:944:ARG:NE	1:M:961:GLU:O	2.39	0.55
1:M:1225:VAL:CG1	1:M:1229:PHE:CD1	2.89	0.55
1:A:121:GLN:HA	1:A:169:ARG:HH22	1.71	0.55
1:A:179:PRO:HD3	1:A:237:ARG:NH1	2.15	0.55
1:A:345:LEU:HD11	1:A:353:ILE:CD1	2.36	0.55
1:A:603:ILE:HB	1:A:1240:ILE:HG21	1.87	0.55
1:A:1125:GLY:O	1:A:1152:ARG:NH1	2.39	0.55
1:A:1151:ILE:CG1	1:A:1167:PRO:HG2	2.36	0.55
1:A:1213:PHE:CE2	1:A:1215:THR:HA	2.40	0.55
1:C:241:ILE:O	1:C:242:LEU:HD12	2.05	0.55
1:C:544:PHE:CD1	1:C:576:VAL:CG2	2.88	0.55
1:C:615:THR:O	1:C:904:GLN:OE1	2.24	0.55
1:C:950:ASN:OD1	1:C:951:GLY:N	2.40	0.55
1:C:1213:PHE:HE2	1:C:1215:THR:HA	1.72	0.55
1:E:171:HIS:NE2	1:E:175:GLU:CG	2.66	0.55
1:E:249:TRP:O	1:E:252:LYS:HB2	2.06	0.55
1:E:595:LEU:HG	1:E:1201:TRP:HH2	1.71	0.55
1:E:1216:ASN:HB3	1:E:1242:TYR:OH	2.06	0.55
1:G:151:THR:HB	1:G:279:VAL:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:505:PHE:HZ	1:G:540:VAL:CG1	2.17	0.55
1:G:1046:THR:CG2	1:G:1063:PHE:CE2	2.89	0.55
1:I:344:GLN:HA	1:I:347:ASN:HD22	1.71	0.55
1:I:457:HIS:CE1	1:I:493:SER:OG	2.60	0.55
1:I:564:VAL:CG1	1:I:583:GLN:HG3	2.35	0.55
1:I:595:LEU:CD1	1:I:1244:LEU:HD13	2.36	0.55
1:K:334:PHE:HB3	1:K:337:ARG:HG2	1.87	0.55
1:K:345:LEU:HD11	1:K:353:ILE:CD1	2.36	0.55
1:K:457:HIS:CE1	1:K:493:SER:OG	2.60	0.55
1:M:862:TYR:CE2	1:M:881:HIS:HB2	2.25	0.55
1:M:950:ASN:OD1	1:M:951:GLY:N	2.40	0.55
1:M:1125:GLY:O	1:M:1152:ARG:NH1	2.39	0.55
1:M:1171:GLU:CG	1:M:1172:GLY:N	2.68	0.55
1:A:149:TRP:HZ3	1:A:251:LEU:HD22	1.70	0.55
1:A:564:VAL:CG1	1:A:583:GLN:HG3	2.35	0.55
1:A:636:ASP:O	1:A:637:LYS:CB	2.55	0.55
1:A:944:ARG:NE	1:A:961:GLU:O	2.39	0.55
1:A:950:ASN:OD1	1:A:951:GLY:N	2.40	0.55
1:A:984:ALA:CA	1:A:999:ARG:O	2.47	0.55
1:C:146:GLU:HG2	1:E:111:ARG:NH1	2.19	0.55
1:C:544:PHE:HE1	1:C:576:VAL:CG1	1.88	0.55
1:E:170:ASP:OD1	1:E:171:HIS:N	2.39	0.55
1:E:241:ILE:O	1:E:242:LEU:HD12	2.05	0.55
1:E:345:LEU:HD11	1:E:353:ILE:CD1	2.37	0.55
1:G:334:PHE:HB3	1:G:337:ARG:HG2	1.86	0.55
1:G:419:VAL:HG11	1:G:426:CYS:HG	1.71	0.55
1:G:513:LYS:CD	1:G:522:LEU:HG	2.36	0.55
1:G:615:THR:O	1:G:904:GLN:OE1	2.23	0.55
1:I:249:TRP:O	1:I:252:LYS:HB2	2.06	0.55
1:I:1225:VAL:CG1	1:I:1229:PHE:CD1	2.89	0.55
1:K:143:LEU:HG	1:K:259:GLN:NE2	2.21	0.55
1:K:249:TRP:O	1:K:252:LYS:HB2	2.06	0.55
1:K:393:VAL:HG11	1:K:486:PHE:CE2	2.41	0.55
1:K:419:VAL:HG22	1:K:424:LEU:O	2.06	0.55
1:K:603:ILE:HB	1:K:1240:ILE:HG21	1.87	0.55
1:K:636:ASP:O	1:K:637:LYS:CB	2.55	0.55
1:K:950:ASN:OD1	1:K:951:GLY:N	2.40	0.55
1:M:393:VAL:HG11	1:M:486:PHE:CE2	2.41	0.55
1:M:980:ASP:OD1	1:M:981:GLU:N	2.40	0.55
1:M:1240:ILE:HG22	1:M:1242:TYR:CE1	2.41	0.55
1:A:419:VAL:HG22	1:A:424:LEU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:427:ASP:HB3	1:A:434:ARG:O	2.05	0.55
1:A:595:LEU:CD1	1:A:1244:LEU:HD13	2.36	0.55
1:A:597:TRP:HZ2	1:A:603:ILE:HG12	1.70	0.55
1:A:931:GLN:O	1:A:931:GLN:HG3	2.05	0.55
1:A:1181:THR:HG22	1:A:1182:ASP:HB2	1.86	0.55
1:A:1233:VAL:CB	1:A:1242:TYR:O	2.54	0.55
1:C:520:ALA:HB2	1:C:647:GLY:O	2.05	0.55
1:C:597:TRP:HZ2	1:C:603:ILE:HG12	1.70	0.55
1:C:1046:THR:O	1:C:1062:SER:HB2	2.05	0.55
1:E:595:LEU:CD1	1:E:1244:LEU:HD13	2.36	0.55
1:E:603:ILE:HD13	1:E:1240:ILE:HG21	1.87	0.55
1:E:1187:PRO:HG2	1:E:1229:PHE:HB3	1.87	0.55
1:E:1225:VAL:CG1	1:E:1229:PHE:CD1	2.89	0.55
1:G:950:ASN:OD1	1:G:951:GLY:N	2.40	0.55
1:G:1216:ASN:HB3	1:G:1242:TYR:OH	2.06	0.55
1:I:1200:LYS:HD3	1:I:1202:TRP:NE1	2.20	0.55
1:K:146:GLU:HG2	1:M:111:ARG:NH1	2.19	0.55
1:K:419:VAL:HG11	1:K:426:CYS:HG	1.69	0.55
1:K:597:TRP:HZ2	1:K:603:ILE:HG12	1.70	0.55
1:K:1092:ASP:HB2	1:K:1133:SER:O	2.05	0.55
1:K:1182:ASP:HB3	1:K:1223:ILE:HG21	1.88	0.55
1:K:1200:LYS:HG3	1:K:1211:GLN:CA	2.36	0.55
1:K:1233:VAL:CB	1:K:1242:TYR:O	2.54	0.55
1:M:345:LEU:HD11	1:M:353:ILE:CD1	2.37	0.55
1:M:564:VAL:CG1	1:M:583:GLN:HG2	2.36	0.55
1:M:1201:TRP:HE3	1:M:1210:SER:CB	2.16	0.55
1:A:121:GLN:OE1	1:M:147:PRO:HG3	2.06	0.55
1:A:636:ASP:C	1:A:637:LYS:CG	2.74	0.55
1:A:678:ASP:O	1:A:679:LYS:CB	2.55	0.55
1:A:1240:ILE:HG22	1:A:1242:TYR:CE1	2.41	0.55
1:C:108:SER:O	1:C:111:ARG:HG2	2.07	0.55
1:C:595:LEU:HG	1:C:1201:TRP:HH2	1.71	0.55
1:C:1200:LYS:HG3	1:C:1211:GLN:CA	2.36	0.55
1:C:1225:VAL:CG1	1:C:1229:PHE:CD1	2.89	0.55
1:E:147:PRO:HG3	1:G:121:GLN:OE1	2.06	0.55
1:E:456:LEU:O	1:E:459:LYS:N	2.38	0.55
1:E:636:ASP:C	1:E:637:LYS:CG	2.74	0.55
1:E:1182:ASP:HB3	1:E:1223:ILE:HG21	1.88	0.55
1:E:1185:PHE:CD1	1:E:1192:LEU:CG	2.63	0.55
1:I:147:PRO:HG3	1:K:121:GLN:OE1	2.06	0.55
1:I:333:ASP:CB	1:I:334:PHE:CE1	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1217:GLY:O	1:I:1218:THR:CG2	2.54	0.55
1:K:108:SER:O	1:K:111:ARG:HG2	2.07	0.55
1:K:928:VAL:CG1	1:K:937:VAL:HA	2.28	0.55
1:M:108:SER:O	1:M:111:ARG:HG2	2.07	0.55
1:M:603:ILE:HB	1:M:1240:ILE:HG21	1.87	0.55
1:M:609:LEU:HB3	1:M:908:LEU:HB3	1.87	0.55
1:A:637:LYS:CA	1:A:660:VAL:HG23	2.36	0.55
1:A:862:TYR:CZ	1:A:881:HIS:N	2.74	0.55
1:A:1220:LEU:HA	1:A:1236:ASP:HB3	1.87	0.55
1:E:615:THR:O	1:E:904:GLN:OE1	2.23	0.55
1:E:950:ASN:OD1	1:E:951:GLY:N	2.40	0.55
1:E:1094:SER:HA	1:E:1135:PHE:HB2	1.89	0.55
1:E:1233:VAL:CB	1:E:1242:TYR:O	2.54	0.55
1:I:950:ASN:OD1	1:I:951:GLY:N	2.40	0.55
1:K:147:PRO:HG3	1:M:121:GLN:OE1	2.06	0.55
1:K:322:LEU:O	1:K:326:LEU:HB2	2.07	0.55
1:K:1046:THR:CG2	1:K:1063:PHE:CE2	2.89	0.55
1:M:637:LYS:CA	1:M:660:VAL:HG23	2.36	0.55
1:A:845:TYR:OH	1:A:847:ASP:HB2	2.07	0.55
1:C:143:LEU:HD23	1:C:143:LEU:C	2.27	0.55
1:C:249:TRP:O	1:C:252:LYS:HB2	2.06	0.55
1:C:345:LEU:HD11	1:C:353:ILE:CD1	2.36	0.55
1:C:457:HIS:CE1	1:C:493:SER:HG	2.24	0.55
1:C:603:ILE:HB	1:C:1240:ILE:HG21	1.87	0.55
1:C:1094:SER:HA	1:C:1135:PHE:HB2	1.89	0.55
1:E:431:LYS:HZ2	1:G:336:ASN:HB3	1.64	0.55
1:E:603:ILE:HB	1:E:1240:ILE:HG21	1.87	0.55
1:G:147:PRO:HG3	1:I:121:GLN:OE1	2.06	0.55
1:G:456:LEU:O	1:G:459:LYS:N	2.38	0.55
1:G:486:PHE:N	1:G:486:PHE:CD1	2.73	0.55
1:G:603:ILE:HB	1:G:1240:ILE:HG21	1.87	0.55
1:G:636:ASP:C	1:G:637:LYS:CG	2.74	0.55
1:G:845:TYR:OH	1:G:847:ASP:HB2	2.07	0.55
1:G:999:ARG:CD	1:G:1030:TRP:CD1	2.76	0.55
1:G:1125:GLY:O	1:G:1152:ARG:NH1	2.39	0.55
1:I:322:LEU:O	1:I:326:LEU:HB2	2.07	0.55
1:I:564:VAL:CG1	1:I:583:GLN:HG2	2.36	0.55
1:K:121:GLN:HA	1:K:169:ARG:HH22	1.71	0.55
1:K:334:PHE:CD1	1:K:334:PHE:N	2.73	0.55
1:K:1092:ASP:OD2	1:K:1134:ALA:HA	2.07	0.55
1:M:170:ASP:OD1	1:M:171:HIS:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:678:ASP:O	1:M:679:LYS:CB	2.55	0.55
1:M:862:TYR:CZ	1:M:881:HIS:N	2.74	0.55
1:M:1094:SER:HA	1:M:1135:PHE:HB2	1.89	0.55
1:M:1220:LEU:HA	1:M:1236:ASP:HB3	1.88	0.55
1:A:146:GLU:CB	1:A:147:PRO:HD2	2.37	0.55
1:A:229:ILE:HG22	1:A:233:ARG:CD	2.28	0.55
1:A:322:LEU:O	1:A:326:LEU:HB2	2.07	0.55
1:A:364:LEU:CD1	1:A:368:MET:HE2	2.37	0.55
1:C:170:ASP:OD1	1:C:171:HIS:N	2.39	0.55
1:C:344:GLN:HA	1:C:347:ASN:HD22	1.71	0.55
1:C:379:ILE:HD11	1:C:417:GLU:OE1	2.07	0.55
1:C:636:ASP:C	1:C:637:LYS:CG	2.74	0.55
1:C:862:TYR:CZ	1:C:881:HIS:N	2.74	0.55
1:C:944:ARG:NE	1:C:961:GLU:O	2.39	0.55
1:C:1220:LEU:HA	1:C:1236:ASP:HB3	1.88	0.55
1:E:136:ILE:O	1:E:140:LEU:N	2.33	0.55
1:E:845:TYR:OH	1:E:847:ASP:HB2	2.07	0.55
1:E:862:TYR:HA	1:E:885:VAL:CG1	2.37	0.55
1:E:1046:THR:O	1:E:1062:SER:HB2	2.05	0.55
1:G:143:LEU:HD23	1:G:143:LEU:C	2.27	0.55
1:G:379:ILE:HD11	1:G:417:GLU:OE1	2.07	0.55
1:G:525:GLU:O	1:G:528:GLU:HG2	2.05	0.55
1:G:1193:ILE:HG12	1:G:1201:TRP:NE1	2.22	0.55
1:I:149:TRP:HZ3	1:I:251:LEU:HD22	1.70	0.55
1:I:316:GLU:O	1:I:318:LYS:CG	2.50	0.55
1:I:1046:THR:CG2	1:I:1063:PHE:CE2	2.89	0.55
1:K:564:VAL:CG1	1:K:583:GLN:HG2	2.36	0.55
1:K:609:LEU:HB3	1:K:908:LEU:HB3	1.87	0.55
1:K:678:ASP:O	1:K:679:LYS:CB	2.55	0.55
1:K:862:TYR:CZ	1:K:881:HIS:N	2.74	0.55
1:M:322:LEU:O	1:M:326:LEU:HB2	2.07	0.55
1:M:595:LEU:CD1	1:M:1244:LEU:HD13	2.36	0.55
1:M:597:TRP:HZ2	1:M:603:ILE:HG12	1.70	0.55
1:M:1213:PHE:HE2	1:M:1215:THR:HA	1.72	0.55
1:A:146:GLU:CG	1:C:111:ARG:HH11	2.15	0.55
1:A:379:ILE:HD11	1:A:417:GLU:OE1	2.07	0.55
1:A:1017:THR:HG21	1:A:1073:ILE:HG12	1.88	0.55
1:A:1171:GLU:CG	1:A:1172:GLY:N	2.68	0.55
1:A:1199:ILE:HD11	1:A:1232:TYR:CZ	2.42	0.55
1:C:427:ASP:CB	1:C:434:ARG:O	2.55	0.55
1:C:457:HIS:CE1	1:C:493:SER:OG	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:678:ASP:O	1:C:679:LYS:CB	2.55	0.55
1:C:1199:ILE:HD11	1:C:1232:TYR:CZ	2.42	0.55
1:E:344:GLN:HA	1:E:347:ASN:HD22	1.71	0.55
1:E:379:ILE:HD11	1:E:417:GLU:OE1	2.07	0.55
1:E:457:HIS:CE1	1:E:493:SER:OG	2.60	0.55
1:E:970:SER:OG	1:E:973:LEU:O	2.24	0.55
1:E:1125:GLY:O	1:E:1152:ARG:NH1	2.39	0.55
1:E:1199:ILE:HD11	1:E:1232:TYR:CZ	2.42	0.55
1:G:595:LEU:CD1	1:G:1244:LEU:HD13	2.36	0.55
1:G:1136:SER:HB3	1:G:1141:LEU:HB2	1.89	0.55
1:I:603:ILE:HB	1:I:1240:ILE:HG21	1.87	0.55
1:I:845:TYR:OH	1:I:847:ASP:HB2	2.07	0.55
1:K:564:VAL:CG1	1:K:583:GLN:HG3	2.35	0.55
1:K:637:LYS:CA	1:K:660:VAL:HG23	2.36	0.55
1:K:1171:GLU:CG	1:K:1172:GLY:N	2.68	0.55
1:M:457:HIS:CE1	1:M:493:SER:OG	2.60	0.55
1:M:1200:LYS:HG3	1:M:1211:GLN:CA	2.36	0.55
1:M:1247:LEU:CD1	1:M:1248:GLU:H	2.14	0.55
1:C:143:LEU:HG	1:C:259:GLN:NE2	2.21	0.55
1:C:1193:ILE:HG12	1:C:1201:TRP:NE1	2.21	0.55
1:E:121:GLN:HA	1:E:169:ARG:HH22	1.71	0.55
1:E:636:ASP:O	1:E:637:LYS:CB	2.55	0.55
1:E:944:ARG:NE	1:E:961:GLU:O	2.39	0.55
1:E:1200:LYS:HG3	1:E:1211:GLN:CA	2.36	0.55
1:G:322:LEU:O	1:G:326:LEU:HB2	2.07	0.55
1:G:333:ASP:CB	1:G:334:PHE:CE1	2.85	0.55
1:G:1213:PHE:HE2	1:G:1215:THR:HA	1.72	0.55
1:I:379:ILE:HD11	1:I:417:GLU:OE1	2.07	0.55
1:I:1125:GLY:O	1:I:1152:ARG:NH1	2.39	0.55
1:I:1193:ILE:HG12	1:I:1201:TRP:NE1	2.22	0.55
1:K:980:ASP:OD1	1:K:981:GLU:N	2.40	0.55
1:K:1094:SER:HA	1:K:1135:PHE:HB2	1.89	0.55
1:M:344:GLN:HA	1:M:347:ASN:HD22	1.71	0.55
1:M:1199:ILE:HD11	1:M:1232:TYR:CZ	2.43	0.55
1:A:143:LEU:HG	1:A:259:GLN:NE2	2.21	0.54
1:A:170:ASP:OD1	1:A:171:HIS:N	2.39	0.54
1:A:1094:SER:HA	1:A:1135:PHE:HB2	1.89	0.54
1:A:1193:ILE:HG12	1:A:1201:TRP:NE1	2.22	0.54
1:C:322:LEU:O	1:C:326:LEU:HB2	2.07	0.54
1:C:543:ASN:CG	1:C:574:SER:CB	2.76	0.54
1:C:845:TYR:OH	1:C:847:ASP:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1171:GLU:CG	1:C:1172:GLY:N	2.68	0.54
1:C:1182:ASP:HB3	1:C:1223:ILE:HG21	1.88	0.54
2:D:103:ASN:O	2:D:104:GLU:C	2.46	0.54
1:E:246:TRP:O	1:E:247:ASP:OD1	2.26	0.54
1:E:862:TYR:CZ	1:E:881:HIS:N	2.74	0.54
1:G:170:ASP:OD1	1:G:171:HIS:N	2.39	0.54
1:G:171:HIS:NE2	1:G:175:GLU:CG	2.66	0.54
1:G:457:HIS:CE1	1:G:493:SER:OG	2.60	0.54
1:G:1094:SER:HA	1:G:1135:PHE:HB2	1.89	0.54
1:G:1199:ILE:HD11	1:G:1232:TYR:CZ	2.42	0.54
1:G:1225:VAL:CG1	1:G:1229:PHE:CD1	2.89	0.54
1:I:108:SER:O	1:I:111:ARG:HG2	2.07	0.54
1:I:486:PHE:N	1:I:486:PHE:CD1	2.73	0.54
1:I:543:ASN:CG	1:I:574:SER:CB	2.76	0.54
1:I:636:ASP:O	1:I:637:LYS:CB	2.55	0.54
1:I:823:LEU:HB3	1:I:833:GLY:HA3	1.90	0.54
1:K:246:TRP:O	1:K:247:ASP:OD1	2.26	0.54
1:K:427:ASP:CB	1:K:434:ARG:O	2.55	0.54
1:K:1199:ILE:HD11	1:K:1232:TYR:CZ	2.42	0.54
1:M:146:GLU:CB	1:M:147:PRO:HD2	2.37	0.54
1:M:419:VAL:HG22	1:M:424:LEU:O	2.06	0.54
1:M:427:ASP:CB	1:M:434:ARG:O	2.55	0.54
1:M:544:PHE:CD1	1:M:576:VAL:HG11	2.36	0.54
1:M:636:ASP:O	1:M:637:LYS:CB	2.55	0.54
1:M:845:TYR:OH	1:M:847:ASP:HB2	2.07	0.54
1:M:1151:ILE:CG1	1:M:1167:PRO:HG2	2.36	0.54
1:M:1182:ASP:HB3	1:M:1223:ILE:HG21	1.88	0.54
1:A:597:TRP:HE1	1:A:1242:TYR:HA	1.73	0.54
1:A:1176:HIS:CB	1:A:1218:THR:HB	2.36	0.54
1:C:363:ALA:O	1:C:366:GLU:CB	2.55	0.54
1:C:595:LEU:CD1	1:C:1244:LEU:HD13	2.36	0.54
1:E:1136:SER:HB3	1:E:1141:LEU:HB2	1.89	0.54
1:E:1193:ILE:HG12	1:E:1201:TRP:NE1	2.21	0.54
1:G:246:TRP:O	1:G:247:ASP:OD1	2.26	0.54
1:G:636:ASP:O	1:G:637:LYS:CB	2.55	0.54
1:G:844:GLN:OE1	1:G:884:TRP:NE1	2.41	0.54
1:I:143:LEU:HD23	1:I:143:LEU:C	2.27	0.54
1:I:1136:SER:HB3	1:I:1141:LEU:HB2	1.89	0.54
1:K:823:LEU:HB3	1:K:833:GLY:HA3	1.90	0.54
1:K:1046:THR:CG2	1:K:1063:PHE:CD2	2.91	0.54
1:M:246:TRP:O	1:M:247:ASP:OD1	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:543:ASN:CG	1:M:574:SER:CB	2.76	0.54
1:A:363:ALA:O	1:A:366:GLU:CB	2.55	0.54
1:A:1182:ASP:HB3	1:A:1223:ILE:HG21	1.88	0.54
1:A:1201:TRP:CE3	1:A:1210:SER:CB	2.87	0.54
1:C:147:PRO:HG3	1:E:121:GLN:OE1	2.06	0.54
1:C:456:LEU:O	1:C:459:LYS:N	2.38	0.54
1:E:1220:LEU:HA	1:E:1236:ASP:HB3	1.88	0.54
1:G:231:MET:SD	1:G:258:CYS:SG	2.97	0.54
1:G:597:TRP:HE1	1:G:1242:TYR:HA	1.73	0.54
1:G:1017:THR:HG21	1:G:1073:ILE:HG12	1.88	0.54
1:G:1046:THR:O	1:G:1062:SER:HB2	2.05	0.54
1:G:1217:GLY:O	1:G:1218:THR:CG2	2.54	0.54
1:G:1220:LEU:HA	1:G:1236:ASP:HB3	1.88	0.54
1:I:121:GLN:HA	1:I:169:ARG:HH22	1.71	0.54
1:I:678:ASP:O	1:I:679:LYS:CB	2.55	0.54
1:I:1017:THR:HG21	1:I:1073:ILE:HG12	1.88	0.54
1:I:1094:SER:HA	1:I:1135:PHE:HB2	1.89	0.54
1:I:1199:ILE:HD11	1:I:1232:TYR:CZ	2.42	0.54
1:K:543:ASN:CG	1:K:574:SER:CB	2.76	0.54
1:K:862:TYR:HA	1:K:885:VAL:CG1	2.37	0.54
1:K:1220:LEU:HA	1:K:1236:ASP:HB3	1.88	0.54
1:M:121:GLN:HA	1:M:169:ARG:HH22	1.71	0.54
1:M:143:LEU:HG	1:M:259:GLN:NE2	2.21	0.54
1:M:496:MET:HA	1:M:496:MET:HE3	1.90	0.54
1:M:862:TYR:HA	1:M:885:VAL:CG1	2.37	0.54
1:M:1017:THR:HG21	1:M:1073:ILE:HG12	1.88	0.54
1:A:143:LEU:HD23	1:A:143:LEU:C	2.27	0.54
1:A:427:ASP:CB	1:A:434:ARG:O	2.55	0.54
1:A:457:HIS:CE1	1:A:493:SER:OG	2.60	0.54
1:A:1092:ASP:OD2	1:A:1134:ALA:HA	2.07	0.54
1:A:1225:VAL:CG1	1:A:1229:PHE:CD1	2.89	0.54
5:B:201:HEM:HMC1	5:B:201:HEM:CBC	2.28	0.54
1:C:144:LYS:HG2	1:C:145:GLY:N	2.23	0.54
1:C:637:LYS:CA	1:C:660:VAL:HG23	2.36	0.54
1:C:1146:ASP:HB2	1:C:1150:GLU:HB3	1.90	0.54
1:E:452:GLN:HB3	1:E:456:LEU:HD11	1.89	0.54
1:E:543:ASN:CG	1:E:574:SER:CB	2.76	0.54
2:F:103:ASN:O	2:F:104:GLU:C	2.46	0.54
1:G:108:SER:O	1:G:111:ARG:HG2	2.07	0.54
1:G:317:CYS:SG	1:G:324:VAL:CG2	2.96	0.54
1:G:862:TYR:CZ	1:G:881:HIS:N	2.74	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1092:ASP:OD2	1:G:1134:ALA:HA	2.07	0.54
1:G:1233:VAL:HG11	1:G:1243:ILE:CG1	2.28	0.54
1:I:246:TRP:O	1:I:247:ASP:OD1	2.26	0.54
1:I:862:TYR:CZ	1:I:881:HIS:N	2.74	0.54
1:I:1067:VAL:N	1:I:1081:PHE:O	2.40	0.54
1:I:1220:LEU:HA	1:I:1236:ASP:HB3	1.88	0.54
1:K:862:TYR:CE1	1:K:881:HIS:HB3	2.38	0.54
1:K:1136:SER:HB3	1:K:1141:LEU:HB2	1.89	0.54
1:K:1217:GLY:C	1:K:1218:THR:CG2	2.76	0.54
1:M:1046:THR:CG2	1:M:1063:PHE:CD2	2.91	0.54
1:M:1151:ILE:H	1:M:1167:PRO:CD	2.19	0.54
1:A:844:GLN:OE1	1:A:884:TRP:NE1	2.41	0.54
1:C:364:LEU:CD1	1:C:368:MET:HE2	2.37	0.54
1:E:231:MET:SD	1:E:258:CYS:SG	2.97	0.54
1:E:485:ASN:HD22	1:E:485:ASN:N	2.06	0.54
1:E:513:LYS:CD	1:E:522:LEU:HG	2.36	0.54
1:E:597:TRP:HZ2	1:E:603:ILE:HG12	1.70	0.54
1:E:844:GLN:OE1	1:E:884:TRP:NE1	2.41	0.54
1:E:1201:TRP:HE3	1:E:1210:SER:CB	2.16	0.54
1:G:457:HIS:CE1	1:G:493:SER:HG	2.24	0.54
1:G:557:ARG:NH2	1:G:1174:ALA:HB2	2.23	0.54
1:G:564:VAL:CG1	1:G:583:GLN:HG2	2.36	0.54
1:G:823:LEU:HB3	1:G:833:GLY:HA3	1.90	0.54
1:I:146:GLU:CB	1:I:147:PRO:HD2	2.37	0.54
1:I:485:ASN:N	1:I:485:ASN:HD22	2.06	0.54
1:I:520:ALA:CB	1:I:647:GLY:O	2.56	0.54
1:I:551:ASN:O	1:I:555:LEU:HB3	2.08	0.54
1:I:1247:LEU:CD1	1:I:1248:GLU:H	2.13	0.54
1:K:344:GLN:HA	1:K:347:ASN:HD22	1.71	0.54
1:K:639:LEU:HD23	1:K:653:ILE:HD13	1.90	0.54
1:K:844:GLN:OE1	1:K:884:TRP:NE1	2.41	0.54
1:K:845:TYR:OH	1:K:847:ASP:HB2	2.07	0.54
2:L:103:ASN:O	2:L:104:GLU:C	2.46	0.54
1:M:363:ALA:O	1:M:366:GLU:CB	2.55	0.54
1:M:485:ASN:HD22	1:M:485:ASN:N	2.06	0.54
1:M:570:GLU:HA	1:M:570:GLU:OE2	2.08	0.54
1:M:823:LEU:HB3	1:M:833:GLY:HA3	1.90	0.54
1:M:862:TYR:CE1	1:M:881:HIS:HB3	2.38	0.54
1:A:1146:ASP:HB2	1:A:1150:GLU:HB3	1.90	0.54
1:C:246:TRP:O	1:C:247:ASP:OD1	2.26	0.54
1:C:496:MET:HA	1:C:496:MET:HE3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:636:ASP:O	1:C:637:LYS:CB	2.55	0.54
1:C:844:GLN:OE1	1:C:884:TRP:NE1	2.41	0.54
1:E:144:LYS:HG2	1:E:145:GLY:N	2.23	0.54
1:E:769:LEU:HD13	1:E:826:ILE:HD12	1.89	0.54
1:E:1151:ILE:H	1:E:1167:PRO:CD	2.19	0.54
1:G:106:ILE:HG22	1:G:107:THR:O	2.08	0.54
1:G:551:ASN:O	1:G:555:LEU:HB3	2.08	0.54
1:I:393:VAL:HG11	1:I:486:PHE:CE2	2.41	0.54
1:I:637:LYS:CA	1:I:660:VAL:HG23	2.36	0.54
1:I:862:TYR:HA	1:I:885:VAL:CG1	2.37	0.54
1:I:1046:THR:CG2	1:I:1063:PHE:CD2	2.91	0.54
1:I:1233:VAL:CB	1:I:1242:TYR:O	2.54	0.54
1:K:317:CYS:SG	1:K:324:VAL:CG2	2.96	0.54
1:K:363:ALA:O	1:K:366:GLU:CB	2.55	0.54
1:K:520:ALA:CB	1:K:647:GLY:O	2.56	0.54
1:K:570:GLU:HA	1:K:570:GLU:OE2	2.08	0.54
1:M:457:HIS:CE1	1:M:493:SER:HG	2.25	0.54
1:M:928:VAL:CG1	1:M:937:VAL:HA	2.28	0.54
1:A:246:TRP:O	1:A:247:ASP:OD1	2.26	0.54
1:A:344:GLN:HA	1:A:347:ASN:HD22	1.71	0.54
1:A:557:ARG:NH2	1:A:1174:ALA:HB2	2.23	0.54
1:A:1213:PHE:HE2	1:A:1215:THR:HA	1.72	0.54
1:A:1220:LEU:CD2	1:A:1234:THR:HG21	2.38	0.54
1:C:143:LEU:H	1:C:143:LEU:CD2	2.21	0.54
1:C:513:LYS:CD	1:C:522:LEU:HG	2.36	0.54
1:C:557:ARG:NH2	1:C:1174:ALA:HB2	2.23	0.54
1:C:769:LEU:HD13	1:C:826:ILE:HD12	1.89	0.54
1:C:1136:SER:HB3	1:C:1141:LEU:HB2	1.89	0.54
1:E:427:ASP:CB	1:E:434:ARG:O	2.55	0.54
1:E:557:ARG:NH2	1:E:1174:ALA:HB2	2.23	0.54
1:E:597:TRP:HE1	1:E:1242:TYR:HA	1.73	0.54
1:E:678:ASP:O	1:E:679:LYS:CB	2.55	0.54
1:E:882:LEU:CD2	1:E:882:LEU:N	2.39	0.54
1:E:1067:VAL:N	1:E:1081:PHE:O	2.40	0.54
1:E:1146:ASP:HB2	1:E:1150:GLU:HB3	1.90	0.54
1:G:121:GLN:HA	1:G:169:ARG:HH22	1.71	0.54
1:G:452:GLN:HB3	1:G:456:LEU:HD11	1.89	0.54
1:G:543:ASN:CG	1:G:574:SER:CB	2.76	0.54
1:G:1200:LYS:HD3	1:G:1202:TRP:NE1	2.20	0.54
1:I:363:ALA:O	1:I:366:GLU:CB	2.55	0.54
1:I:456:LEU:O	1:I:459:LYS:N	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:862:TYR:CE2	1:I:881:HIS:HB2	2.25	0.54
1:K:557:ARG:NH2	1:K:1174:ALA:HB2	2.23	0.54
1:K:984:ALA:CA	1:K:999:ARG:O	2.47	0.54
1:M:143:LEU:H	1:M:143:LEU:CD2	2.21	0.54
1:M:379:ILE:HD11	1:M:417:GLU:OE1	2.07	0.54
1:M:1136:SER:HB3	1:M:1141:LEU:HB2	1.89	0.54
2:N:103:ASN:O	2:N:104:GLU:C	2.46	0.54
1:A:543:ASN:CG	1:A:574:SER:CB	2.76	0.54
1:A:570:GLU:HA	1:A:570:GLU:OE2	2.08	0.54
1:A:862:TYR:HA	1:A:885:VAL:CG1	2.37	0.54
1:C:452:GLN:HB3	1:C:456:LEU:HD11	1.89	0.54
1:C:980:ASP:OD1	1:C:981:GLU:N	2.40	0.54
1:C:1046:THR:CG2	1:C:1063:PHE:CD2	2.91	0.54
1:C:1220:LEU:CD2	1:C:1234:THR:HG21	2.38	0.54
1:E:322:LEU:O	1:E:326:LEU:HB2	2.07	0.54
1:E:363:ALA:O	1:E:366:GLU:CB	2.55	0.54
1:E:526:PHE:O	1:E:529:TYR:HB3	2.08	0.54
1:E:544:PHE:HE1	1:E:576:VAL:CG1	1.88	0.54
1:E:1017:THR:HG21	1:E:1073:ILE:HG12	1.88	0.54
1:E:1213:PHE:HE2	1:E:1215:THR:HA	1.72	0.54
1:G:862:TYR:HA	1:G:885:VAL:CG1	2.37	0.54
1:G:1046:THR:CG2	1:G:1063:PHE:CD2	2.91	0.54
1:I:106:ILE:HG22	1:I:107:THR:O	2.08	0.54
1:I:374:MET:HA	1:I:374:MET:HE3	1.90	0.54
1:K:144:LYS:HG2	1:K:145:GLY:N	2.23	0.54
1:K:1220:LEU:CD2	1:K:1234:THR:HG21	2.38	0.54
1:M:143:LEU:HD23	1:M:143:LEU:C	2.27	0.54
1:A:108:SER:O	1:A:111:ARG:HG2	2.07	0.54
1:A:400:LEU:O	1:A:404:TRP:HE3	1.91	0.54
1:A:567:GLY:O	1:A:569:CYS:N	2.41	0.54
1:A:1069:VAL:HB	1:A:1079:LYS:HB2	1.89	0.54
1:A:1136:SER:HB3	1:A:1141:LEU:HB2	1.89	0.54
2:B:103:ASN:O	2:B:104:GLU:C	2.46	0.54
1:C:595:LEU:HD22	1:C:1244:LEU:HD12	1.78	0.54
1:C:862:TYR:HA	1:C:885:VAL:CG1	2.37	0.54
1:C:1017:THR:HG21	1:C:1073:ILE:HG12	1.88	0.54
1:C:1201:TRP:HE3	1:C:1210:SER:CB	2.16	0.54
1:E:143:LEU:HD23	1:E:143:LEU:C	2.27	0.54
1:E:1069:VAL:HB	1:E:1079:LYS:HB2	1.89	0.54
2:F:18:HIS:CE1	5:F:201:HEM:ND	2.76	0.54
2:F:103:ASN:C	2:F:104:GLU:O	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:363:ALA:O	1:G:366:GLU:CB	2.55	0.54
1:I:597:TRP:HE1	1:I:1242:TYR:HA	1.73	0.54
1:I:597:TRP:HA	1:I:1243:ILE:O	2.08	0.54
1:I:636:ASP:C	1:I:637:LYS:CG	2.74	0.54
1:I:639:LEU:HD23	1:I:653:ILE:HD13	1.90	0.54
1:I:1092:ASP:OD2	1:I:1134:ALA:HA	2.07	0.54
1:K:714:LEU:HB3	1:K:730:LEU:HB2	1.90	0.54
1:K:757:LEU:HB3	1:K:769:LEU:HD11	1.90	0.54
1:K:1017:THR:HG21	1:K:1073:ILE:HG12	1.88	0.54
1:K:1193:ILE:HG12	1:K:1201:TRP:NE1	2.22	0.54
1:M:520:ALA:CB	1:M:647:GLY:O	2.56	0.54
1:M:557:ARG:NH2	1:M:1174:ALA:HB2	2.23	0.54
1:M:1092:ASP:OD2	1:M:1134:ALA:HA	2.07	0.54
1:M:1193:ILE:HG12	1:M:1201:TRP:NE1	2.22	0.54
1:M:1212:THR:CG2	1:M:1213:PHE:H	2.12	0.54
2:B:18:HIS:CE1	5:B:201:HEM:ND	2.76	0.54
1:C:316:GLU:O	1:C:318:LYS:CG	2.50	0.54
1:C:520:ALA:CB	1:C:647:GLY:O	2.56	0.54
1:C:570:GLU:HA	1:C:570:GLU:OE2	2.08	0.54
1:E:143:LEU:H	1:E:143:LEU:CD2	2.21	0.54
1:E:333:ASP:CB	1:E:334:PHE:CE1	2.85	0.54
1:E:862:TYR:CE2	1:E:881:HIS:HB2	2.25	0.54
1:E:1213:PHE:HE2	1:E:1215:THR:HG22	1.69	0.54
1:G:146:GLU:CB	1:G:147:PRO:HD2	2.37	0.54
1:G:179:PRO:HD3	1:G:237:ARG:NH1	2.15	0.54
1:G:1069:VAL:HB	1:G:1079:LYS:HB2	1.89	0.54
1:G:1233:VAL:CB	1:G:1242:TYR:O	2.54	0.54
1:I:143:LEU:H	1:I:143:LEU:CD2	2.21	0.54
1:I:144:LYS:HG2	1:I:145:GLY:N	2.23	0.54
1:I:427:ASP:CB	1:I:434:ARG:O	2.55	0.54
1:I:452:GLN:HB3	1:I:456:LEU:HD11	1.90	0.54
1:I:557:ARG:NH2	1:I:1174:ALA:HB2	2.23	0.54
1:I:570:GLU:HA	1:I:570:GLU:OE2	2.08	0.54
1:I:714:LEU:HB3	1:I:730:LEU:HB2	1.90	0.54
1:I:757:LEU:HB3	1:I:769:LEU:HD11	1.90	0.54
1:K:143:LEU:HD23	1:K:143:LEU:C	2.27	0.54
1:K:146:GLU:CB	1:K:147:PRO:HD2	2.37	0.54
1:K:597:TRP:CH2	1:K:603:ILE:HG12	2.43	0.54
1:M:400:LEU:O	1:M:404:TRP:HE3	1.91	0.54
1:M:714:LEU:HB3	1:M:730:LEU:HB2	1.90	0.54
1:M:1067:VAL:N	1:M:1081:PHE:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1217:GLY:O	1:M:1218:THR:CG2	2.54	0.54
1:M:1239:GLY:O	1:M:1240:ILE:HB	2.08	0.54
1:A:143:LEU:H	1:A:143:LEU:CD2	2.21	0.53
1:C:106:ILE:HG22	1:C:107:THR:O	2.08	0.53
1:C:374:MET:CE	1:C:374:MET:CA	2.85	0.53
1:C:485:ASN:HD22	1:C:485:ASN:N	2.06	0.53
1:E:229:ILE:HG22	1:E:233:ARG:CD	2.28	0.53
1:E:554:LEU:CD1	1:E:1214:TYR:CE1	2.91	0.53
1:E:597:TRP:HA	1:E:1243:ILE:O	2.08	0.53
1:E:1046:THR:CG2	1:E:1063:PHE:CD2	2.91	0.53
1:G:520:ALA:CB	1:G:647:GLY:O	2.56	0.53
1:G:1217:GLY:C	1:G:1218:THR:CG2	2.76	0.53
2:H:103:ASN:C	2:H:104:GLU:O	2.46	0.53
1:I:902:ASP:HB3	2:J:72:LYS:NZ	2.24	0.53
1:K:452:GLN:HB3	1:K:456:LEU:HD11	1.90	0.53
1:K:551:ASN:O	1:K:555:LEU:HB3	2.08	0.53
1:K:769:LEU:HD13	1:K:826:ILE:HD12	1.89	0.53
1:M:844:GLN:OE1	1:M:884:TRP:NE1	2.41	0.53
1:M:1069:VAL:HB	1:M:1079:LYS:HB2	1.90	0.53
1:A:144:LYS:HG2	1:A:145:GLY:N	2.23	0.53
1:A:298:PHE:CZ	1:A:325:SER:HA	2.42	0.53
1:A:452:GLN:HB3	1:A:456:LEU:HD11	1.89	0.53
1:A:714:LEU:HB3	1:A:730:LEU:HB2	1.90	0.53
1:A:778:ARG:HG2	1:A:779:LYS:HG3	1.91	0.53
1:A:1046:THR:CG2	1:A:1063:PHE:CD2	2.91	0.53
1:C:121:GLN:HA	1:C:169:ARG:HH22	1.71	0.53
1:C:862:TYR:CE1	1:C:885:VAL:HG12	2.21	0.53
1:E:486:PHE:N	1:E:486:PHE:CD1	2.73	0.53
1:E:778:ARG:HG2	1:E:779:LYS:HG3	1.91	0.53
1:E:1247:LEU:CD1	1:E:1248:GLU:H	2.13	0.53
1:G:144:LYS:HG2	1:G:145:GLY:N	2.23	0.53
1:G:862:TYR:CE1	1:G:885:VAL:HG12	2.21	0.53
1:G:902:ASP:HB3	2:H:72:LYS:NZ	2.24	0.53
1:I:844:GLN:OE1	1:I:884:TRP:NE1	2.41	0.53
1:K:106:ILE:HG22	1:K:107:THR:O	2.08	0.53
1:K:554:LEU:CD1	1:K:1214:TYR:CE1	2.91	0.53
1:K:1069:VAL:HB	1:K:1079:LYS:HB2	1.90	0.53
1:K:1239:GLY:O	1:K:1240:ILE:HB	2.08	0.53
1:A:485:ASN:N	1:A:485:ASN:HD22	2.06	0.53
1:A:526:PHE:O	1:A:529:TYR:HB3	2.08	0.53
1:A:1239:GLY:O	1:A:1240:ILE:HB	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:149:TRP:HZ3	1:C:251:LEU:HD22	1.70	0.53
1:C:400:LEU:O	1:C:404:TRP:HE3	1.91	0.53
1:C:554:LEU:CD1	1:C:1214:TYR:CE1	2.91	0.53
1:C:1201:TRP:CE3	1:C:1210:SER:CB	2.87	0.53
1:E:520:ALA:CB	1:E:647:GLY:O	2.56	0.53
1:E:551:ASN:O	1:E:555:LEU:HB3	2.08	0.53
1:E:570:GLU:HA	1:E:570:GLU:OE2	2.08	0.53
1:E:1201:TRP:CE3	1:E:1210:SER:CB	2.87	0.53
1:G:427:ASP:CB	1:G:434:ARG:O	2.55	0.53
1:G:554:LEU:CD1	1:G:1214:TYR:CE1	2.91	0.53
1:G:678:ASP:O	1:G:679:LYS:CB	2.55	0.53
1:G:1146:ASP:HB2	1:G:1150:GLU:HB3	1.90	0.53
1:I:554:LEU:CD1	1:I:1214:TYR:CE1	2.91	0.53
1:I:1213:PHE:HE2	1:I:1215:THR:HA	1.71	0.53
1:K:485:ASN:HD22	1:K:485:ASN:N	2.06	0.53
1:K:597:TRP:HE1	1:K:1242:TYR:HA	1.73	0.53
1:K:747:ASN:ND2	1:K:801:VAL:O	2.38	0.53
1:M:452:GLN:HB3	1:M:456:LEU:HD11	1.89	0.53
1:M:639:LEU:HD23	1:M:653:ILE:HD13	1.90	0.53
1:M:778:ARG:HG2	1:M:779:LYS:HG3	1.91	0.53
1:M:1213:PHE:HE2	1:M:1215:THR:HG22	1.69	0.53
1:M:1220:LEU:CD2	1:M:1234:THR:HG21	2.38	0.53
1:A:823:LEU:HB3	1:A:833:GLY:HA3	1.90	0.53
1:A:1217:GLY:C	1:A:1218:THR:CG2	2.76	0.53
1:C:544:PHE:CD1	1:C:576:VAL:HG11	2.36	0.53
1:C:902:ASP:HB3	2:D:72:LYS:NZ	2.24	0.53
1:C:1092:ASP:OD2	1:C:1134:ALA:HA	2.07	0.53
2:D:103:ASN:C	2:D:104:GLU:O	2.46	0.53
1:E:823:LEU:HB3	1:E:833:GLY:HA3	1.90	0.53
1:E:1092:ASP:OD2	1:E:1134:ALA:HA	2.07	0.53
1:E:1233:VAL:HA	1:E:1242:TYR:O	2.09	0.53
1:G:637:LYS:CA	1:G:660:VAL:HG23	2.36	0.53
1:G:769:LEU:HD13	1:G:826:ILE:HD12	1.89	0.53
1:I:400:LEU:O	1:I:404:TRP:HE3	1.91	0.53
1:I:639:LEU:N	1:I:653:ILE:CG2	2.63	0.53
1:I:769:LEU:HD13	1:I:826:ILE:HD12	1.89	0.53
1:I:879:ARG:CB	1:I:921:MET:CE	2.73	0.53
1:I:1069:VAL:HB	1:I:1079:LYS:HB2	1.89	0.53
1:K:379:ILE:HD11	1:K:417:GLU:OE1	2.07	0.53
1:K:526:PHE:O	1:K:529:TYR:HB3	2.08	0.53
1:M:597:TRP:HA	1:M:1243:ILE:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1029:VAL:HG11	1:M:1073:ILE:HA	1.90	0.53
1:A:317:CYS:SG	1:A:324:VAL:CG2	2.96	0.53
1:A:703:ASN:ND2	1:A:746:VAL:O	2.42	0.53
1:A:884:TRP:CH2	2:B:81:ILE:HD11	2.44	0.53
1:A:1201:TRP:HE3	1:A:1210:SER:CB	2.15	0.53
1:A:1247:LEU:CD1	1:A:1248:GLU:H	2.13	0.53
1:C:597:TRP:HE1	1:C:1242:TYR:HA	1.73	0.53
1:C:757:LEU:HB3	1:C:769:LEU:HD11	1.90	0.53
1:C:1233:VAL:HA	1:C:1242:TYR:O	2.09	0.53
1:E:390:GLN:OE1	1:E:489:TYR:HE2	1.92	0.53
1:E:457:HIS:CE1	1:E:493:SER:HG	2.27	0.53
1:E:639:LEU:HD23	1:E:653:ILE:HD13	1.90	0.53
1:G:703:ASN:ND2	1:G:746:VAL:O	2.42	0.53
1:G:714:LEU:HB3	1:G:730:LEU:HB2	1.90	0.53
1:G:1201:TRP:CE3	1:G:1210:SER:CB	2.87	0.53
1:I:317:CYS:SG	1:I:324:VAL:CG2	2.96	0.53
1:I:526:PHE:O	1:I:529:TYR:HB3	2.08	0.53
1:I:928:VAL:CG2	1:I:1224:HIS:CG	2.92	0.53
1:I:1220:LEU:CD2	1:I:1234:THR:HG21	2.38	0.53
1:K:400:LEU:O	1:K:404:TRP:HE3	1.91	0.53
1:K:544:PHE:HD1	1:K:576:VAL:CG1	2.17	0.53
1:K:928:VAL:CG2	1:K:1224:HIS:CG	2.92	0.53
1:K:986:GLU:HA	1:K:997:GLN:O	2.09	0.53
1:M:551:ASN:O	1:M:555:LEU:HB3	2.08	0.53
1:M:769:LEU:HD13	1:M:826:ILE:HD12	1.89	0.53
1:A:106:ILE:HG22	1:A:107:THR:O	2.08	0.53
1:A:520:ALA:CB	1:A:647:GLY:O	2.56	0.53
1:A:769:LEU:HD13	1:A:826:ILE:HD12	1.89	0.53
1:A:1226:SER:OG	1:A:1227:PRO:HD2	2.09	0.53
1:C:229:ILE:HG22	1:C:233:ARG:CD	2.28	0.53
1:C:390:GLN:OE1	1:C:489:TYR:HE2	1.92	0.53
1:C:597:TRP:HA	1:C:1243:ILE:O	2.08	0.53
1:C:714:LEU:HB3	1:C:730:LEU:HB2	1.90	0.53
1:C:903:ASP:CG	1:C:1175:THR:HB	2.29	0.53
1:C:986:GLU:HA	1:C:997:GLN:O	2.09	0.53
1:C:1069:VAL:HB	1:C:1079:LYS:HB2	1.89	0.53
1:E:146:GLU:CB	1:E:147:PRO:HD2	2.37	0.53
1:G:778:ARG:HG2	1:G:779:LYS:HG3	1.91	0.53
1:G:903:ASP:CG	1:G:1175:THR:HB	2.29	0.53
1:G:1233:VAL:HA	1:G:1242:TYR:O	2.09	0.53
1:I:980:ASP:OD1	1:I:981:GLU:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:456:LEU:O	1:K:459:LYS:N	2.38	0.53
1:K:636:ASP:C	1:K:637:LYS:CG	2.74	0.53
1:K:1018:LEU:HB3	1:K:1030:TRP:O	2.08	0.53
1:K:1029:VAL:HG11	1:K:1073:ILE:HA	1.90	0.53
1:M:554:LEU:CD1	1:M:1214:TYR:CE1	2.91	0.53
1:M:757:LEU:HB3	1:M:769:LEU:HD11	1.90	0.53
1:M:884:TRP:CH2	2:N:81:ILE:HD11	2.44	0.53
2:N:103:ASN:C	2:N:104:GLU:O	2.46	0.53
1:A:597:TRP:HA	1:A:1243:ILE:O	2.08	0.53
1:C:778:ARG:HG2	1:C:779:LYS:HG3	1.91	0.53
1:C:884:TRP:CH2	2:D:81:ILE:HD11	2.44	0.53
1:E:106:ILE:HG22	1:E:107:THR:O	2.08	0.53
1:E:296:SER:O	1:E:300:ASN:N	2.42	0.53
1:E:317:CYS:SG	1:E:324:VAL:CG2	2.96	0.53
1:G:757:LEU:HB3	1:G:769:LEU:HD11	1.90	0.53
1:G:1220:LEU:CD2	1:G:1234:THR:HG21	2.38	0.53
1:I:390:GLN:OE1	1:I:489:TYR:HE2	1.92	0.53
1:I:1018:LEU:HB3	1:I:1030:TRP:O	2.08	0.53
2:J:103:ASN:O	2:J:104:GLU:C	2.46	0.53
1:K:374:MET:HA	1:K:374:MET:HE3	1.90	0.53
1:K:853:HIS:O	1:K:869:THR:N	2.38	0.53
1:M:317:CYS:SG	1:M:324:VAL:CG2	2.96	0.53
1:M:390:GLN:OE1	1:M:489:TYR:HE2	1.92	0.53
1:M:526:PHE:O	1:M:529:TYR:HB3	2.08	0.53
1:M:595:LEU:CD2	1:M:1244:LEU:CD1	2.48	0.53
1:M:597:TRP:HE1	1:M:1242:TYR:HA	1.73	0.53
1:M:1176:HIS:CB	1:M:1218:THR:HB	2.36	0.53
2:N:18:HIS:CE1	5:N:201:HEM:ND	2.76	0.53
1:A:457:HIS:CE1	1:A:493:SER:HG	2.27	0.53
1:A:513:LYS:CD	1:A:522:LEU:HG	2.36	0.53
1:A:554:LEU:CD1	1:A:1214:TYR:CE1	2.91	0.53
1:A:903:ASP:CG	1:A:1175:THR:HB	2.29	0.53
1:C:296:SER:O	1:C:300:ASN:N	2.42	0.53
1:C:526:PHE:O	1:C:529:TYR:HB3	2.08	0.53
1:E:862:TYR:CE1	1:E:885:VAL:HG12	2.21	0.53
1:E:1220:LEU:CD2	1:E:1234:THR:HG21	2.38	0.53
1:G:374:MET:CE	1:G:374:MET:CA	2.85	0.53
1:G:390:GLN:OE1	1:G:489:TYR:HE2	1.92	0.53
1:G:485:ASN:HD22	1:G:485:ASN:N	2.06	0.53
1:G:597:TRP:HA	1:G:1243:ILE:O	2.08	0.53
1:G:862:TYR:HD1	1:G:885:VAL:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1018:LEU:HB3	1:G:1030:TRP:O	2.08	0.53
1:G:1151:ILE:H	1:G:1167:PRO:CD	2.19	0.53
1:I:146:GLU:HG2	1:K:111:ARG:NH1	2.19	0.53
1:I:926:VAL:CG1	1:I:938:LEU:O	2.57	0.53
1:I:1226:SER:OG	1:I:1227:PRO:HD2	2.09	0.53
1:K:703:ASN:ND2	1:K:746:VAL:O	2.42	0.53
1:K:778:ARG:HG2	1:K:779:LYS:HG3	1.91	0.53
1:K:884:TRP:CH2	2:L:81:ILE:HD11	2.44	0.53
1:M:457:HIS:NE2	1:M:493:SER:CB	2.72	0.53
1:M:597:TRP:CH2	1:M:603:ILE:HG12	2.43	0.53
1:A:390:GLN:OE1	1:A:489:TYR:HE2	1.92	0.53
1:A:639:LEU:N	1:A:653:ILE:CG2	2.63	0.53
1:A:1026:GLU:HG2	1:A:1041:ARG:HA	1.91	0.53
1:A:1029:VAL:HG11	1:A:1073:ILE:HA	1.90	0.53
1:A:1240:ILE:HG22	1:A:1242:TYR:CD1	2.44	0.53
1:C:567:GLY:O	1:C:569:CYS:N	2.41	0.53
1:C:703:ASN:ND2	1:C:746:VAL:O	2.42	0.53
1:E:108:SER:O	1:E:111:ARG:HG2	2.07	0.53
1:E:400:LEU:O	1:E:404:TRP:HE3	1.91	0.53
1:E:902:ASP:HB3	2:F:72:LYS:NZ	2.24	0.53
1:E:1029:VAL:HG11	1:E:1073:ILE:HA	1.90	0.53
1:E:1217:GLY:O	1:E:1218:THR:CG2	2.54	0.53
1:G:137:GLN:NE2	1:G:173:LEU:HB3	2.24	0.53
1:G:143:LEU:H	1:G:143:LEU:CD2	2.21	0.53
1:G:986:GLU:HA	1:G:997:GLN:O	2.09	0.53
1:G:1200:LYS:CD	1:G:1202:TRP:CE2	2.81	0.53
1:G:1226:SER:OG	1:G:1227:PRO:HD2	2.09	0.53
1:G:1247:LEU:CD1	1:G:1248:GLU:H	2.14	0.53
1:I:1233:VAL:HA	1:I:1242:TYR:O	2.09	0.53
1:K:143:LEU:H	1:K:143:LEU:CD2	2.21	0.53
1:K:496:MET:HA	1:K:496:MET:HE3	1.91	0.53
1:K:597:TRP:HA	1:K:1243:ILE:O	2.08	0.53
1:K:1151:ILE:H	1:K:1167:PRO:CD	2.19	0.53
1:K:1212:THR:CG2	1:K:1213:PHE:H	2.12	0.53
1:K:1240:ILE:HG22	1:K:1242:TYR:CD1	2.44	0.53
1:M:106:ILE:HG22	1:M:107:THR:O	2.08	0.53
1:M:144:LYS:HG2	1:M:145:GLY:N	2.23	0.53
1:M:903:ASP:CG	1:M:1175:THR:HB	2.29	0.53
1:M:928:VAL:CG2	1:M:1224:HIS:CG	2.92	0.53
1:M:986:GLU:HA	1:M:997:GLN:O	2.09	0.53
1:M:1146:ASP:HB2	1:M:1150:GLU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:374:MET:CE	1:A:374:MET:CA	2.85	0.53
1:A:928:VAL:CG1	1:A:937:VAL:HA	2.28	0.53
1:C:317:CYS:SG	1:C:324:VAL:CG2	2.96	0.53
1:C:419:VAL:HG11	1:C:426:CYS:HG	1.70	0.53
1:C:525:GLU:O	1:C:528:GLU:HG2	2.05	0.53
1:C:1217:GLY:C	1:C:1218:THR:CG2	2.76	0.53
1:E:637:LYS:CA	1:E:660:VAL:HG23	2.36	0.53
1:G:526:PHE:O	1:G:529:TYR:HB3	2.08	0.53
1:G:884:TRP:CH2	2:H:81:ILE:HD11	2.44	0.53
1:I:171:HIS:NE2	1:I:175:GLU:CG	2.66	0.53
1:I:229:ILE:HG22	1:I:233:ARG:CD	2.28	0.53
1:I:374:MET:CE	1:I:374:MET:CA	2.85	0.53
1:I:778:ARG:HG2	1:I:779:LYS:HG3	1.91	0.53
1:I:1146:ASP:HB2	1:I:1150:GLU:HB3	1.90	0.53
1:K:457:HIS:CE1	1:K:493:SER:HG	2.27	0.53
1:M:1240:ILE:HG22	1:M:1242:TYR:CD1	2.44	0.53
1:A:137:GLN:NE2	1:A:173:LEU:HB3	2.24	0.52
1:A:456:LEU:O	1:A:459:LYS:N	2.38	0.52
1:A:551:ASN:O	1:A:555:LEU:HB3	2.08	0.52
1:A:757:LEU:HB3	1:A:769:LEU:HD11	1.90	0.52
1:C:762:SER:OG	1:C:764:ASP:OD1	2.25	0.52
1:C:823:LEU:HB3	1:C:833:GLY:HA3	1.90	0.52
1:C:926:VAL:CG1	1:C:938:LEU:O	2.57	0.52
1:C:1240:ILE:HG22	1:C:1242:TYR:CD1	2.44	0.52
1:E:714:LEU:HB3	1:E:730:LEU:HB2	1.90	0.52
1:E:884:TRP:CH2	2:F:81:ILE:HD11	2.44	0.52
1:E:1018:LEU:HB3	1:E:1030:TRP:O	2.08	0.52
1:G:597:TRP:HZ2	1:G:603:ILE:HG12	1.70	0.52
1:G:639:LEU:HD23	1:G:653:ILE:HD13	1.90	0.52
1:G:1029:VAL:HG11	1:G:1073:ILE:HA	1.90	0.52
2:H:18:HIS:NE2	5:H:201:HEM:CHD	2.72	0.52
1:I:334:PHE:CB	1:I:337:ARG:CG	2.87	0.52
1:I:928:VAL:CG1	1:I:937:VAL:HA	2.28	0.52
1:I:986:GLU:HA	1:I:997:GLN:O	2.09	0.52
1:K:505:PHE:CZ	1:K:540:VAL:CG1	2.90	0.52
1:A:296:SER:O	1:A:300:ASN:N	2.42	0.52
1:A:525:GLU:O	1:A:528:GLU:HG2	2.05	0.52
1:C:928:VAL:CG2	1:C:1224:HIS:CG	2.92	0.52
1:C:1018:LEU:HB3	1:C:1030:TRP:O	2.08	0.52
1:C:1213:PHE:HE2	1:C:1215:THR:HG22	1.69	0.52
1:E:703:ASN:ND2	1:E:746:VAL:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:928:VAL:CG2	1:E:1224:HIS:CG	2.92	0.52
1:E:986:GLU:HA	1:E:997:GLN:O	2.09	0.52
1:G:146:GLU:CG	1:I:111:ARG:HH11	2.15	0.52
1:G:334:PHE:CB	1:G:337:ARG:CG	2.87	0.52
1:G:344:GLN:CD	1:G:352:ARG:HG3	2.30	0.52
1:G:570:GLU:OE2	1:G:570:GLU:HA	2.08	0.52
1:G:639:LEU:CG	1:G:653:ILE:HG21	2.36	0.52
1:G:747:ASN:ND2	1:G:801:VAL:O	2.38	0.52
1:G:944:ARG:NE	1:G:961:GLU:O	2.39	0.52
1:I:457:HIS:NE2	1:I:493:SER:CB	2.72	0.52
1:I:505:PHE:CZ	1:I:540:VAL:CG1	2.90	0.52
1:I:1026:GLU:HG2	1:I:1041:ARG:HA	1.91	0.52
1:K:334:PHE:CB	1:K:337:ARG:CG	2.87	0.52
1:K:902:ASP:HB3	2:L:72:LYS:NZ	2.24	0.52
1:K:1026:GLU:HG2	1:K:1041:ARG:HA	1.91	0.52
1:M:1026:GLU:HG2	1:M:1041:ARG:HA	1.91	0.52
1:M:1226:SER:OG	1:M:1227:PRO:HD2	2.09	0.52
1:A:373:GLU:HA	1:A:373:GLU:OE2	2.09	0.52
1:A:461:ILE:CD1	1:A:491:MET:HG3	2.40	0.52
1:A:496:MET:HA	1:A:496:MET:HE3	1.91	0.52
1:A:525:GLU:HA	1:A:528:GLU:HG2	1.92	0.52
1:A:1018:LEU:HB3	1:A:1030:TRP:O	2.08	0.52
1:A:1151:ILE:H	1:A:1167:PRO:CD	2.19	0.52
1:A:1233:VAL:HA	1:A:1242:TYR:O	2.09	0.52
2:B:103:ASN:C	2:B:104:GLU:O	2.46	0.52
1:C:146:GLU:CB	1:C:147:PRO:HD2	2.37	0.52
1:C:970:SER:OG	1:C:973:LEU:O	2.24	0.52
2:D:18:HIS:CE1	5:D:201:HEM:ND	2.76	0.52
1:E:246:TRP:CH2	1:E:370:ILE:HG22	2.45	0.52
1:E:757:LEU:HB3	1:E:769:LEU:HD11	1.90	0.52
1:E:1171:GLU:CG	1:E:1172:GLY:N	2.68	0.52
1:E:1240:ILE:HG22	1:E:1242:TYR:CD1	2.44	0.52
2:F:18:HIS:NE2	5:F:201:HEM:CHD	2.72	0.52
1:G:296:SER:O	1:G:300:ASN:N	2.42	0.52
1:G:316:GLU:O	1:G:318:LYS:CG	2.50	0.52
1:G:373:GLU:HA	1:G:373:GLU:OE2	2.09	0.52
1:G:926:VAL:CG1	1:G:938:LEU:O	2.57	0.52
1:I:537:ASP:HA	1:I:540:VAL:HG23	1.92	0.52
1:I:703:ASN:ND2	1:I:746:VAL:O	2.42	0.52
1:I:1200:LYS:CD	1:I:1202:TRP:CE2	2.81	0.52
1:K:390:GLN:OE1	1:K:489:TYR:HE2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:457:HIS:NE2	1:K:493:SER:CB	2.72	0.52
1:K:513:LYS:CE	1:K:522:LEU:HG	2.40	0.52
1:K:525:GLU:HA	1:K:528:GLU:HG2	1.92	0.52
1:K:1233:VAL:HA	1:K:1242:TYR:O	2.09	0.52
1:M:344:GLN:CD	1:M:352:ARG:HG3	2.30	0.52
1:A:246:TRP:CH2	1:A:370:ILE:HG22	2.45	0.52
1:A:334:PHE:CB	1:A:337:ARG:CD	2.87	0.52
1:A:431:LYS:HZ3	1:C:336:ASN:CB	2.12	0.52
2:B:18:HIS:NE2	5:B:201:HEM:CHD	2.72	0.52
1:C:525:GLU:HA	1:C:528:GLU:HG2	1.92	0.52
1:C:903:ASP:O	1:C:904:GLN:CB	2.57	0.52
1:C:1026:GLU:HG2	1:C:1041:ARG:HA	1.91	0.52
1:C:1233:VAL:CA	1:C:1242:TYR:O	2.58	0.52
1:E:260:ILE:O	1:E:260:ILE:HG13	2.05	0.52
1:E:926:VAL:CG1	1:E:938:LEU:O	2.57	0.52
1:G:513:LYS:CE	1:G:522:LEU:HG	2.40	0.52
1:G:1240:ILE:HG22	1:G:1242:TYR:CD1	2.44	0.52
1:I:206:LEU:HD21	1:I:235:HIS:HD2	1.75	0.52
1:I:567:GLY:O	1:I:569:CYS:N	2.41	0.52
1:I:903:ASP:CG	1:I:1175:THR:HB	2.29	0.52
1:I:1201:TRP:CE3	1:I:1210:SER:CB	2.87	0.52
1:I:1213:PHE:O	1:I:1214:TYR:CB	2.49	0.52
1:I:1240:ILE:HG22	1:I:1242:TYR:CD1	2.44	0.52
2:J:103:ASN:C	2:J:104:GLU:O	2.46	0.52
1:K:344:GLN:CD	1:K:352:ARG:HG3	2.30	0.52
1:M:513:LYS:CE	1:M:522:LEU:HG	2.40	0.52
1:M:1018:LEU:HB3	1:M:1030:TRP:O	2.08	0.52
1:A:121:GLN:CD	1:M:147:PRO:HG3	2.30	0.52
1:A:564:VAL:HG11	1:A:583:GLN:CG	2.39	0.52
1:A:639:LEU:HD23	1:A:653:ILE:HD13	1.90	0.52
1:A:986:GLU:HA	1:A:997:GLN:O	2.09	0.52
1:A:1213:PHE:HE2	1:A:1215:THR:HG22	1.69	0.52
1:A:1233:VAL:CA	1:A:1242:TYR:O	2.58	0.52
1:C:409:GLU:HG3	1:E:340:TYR:HH	1.70	0.52
1:C:1029:VAL:HG11	1:C:1073:ILE:HA	1.90	0.52
1:C:1226:SER:OG	1:C:1227:PRO:HD2	2.09	0.52
1:E:903:ASP:CG	1:E:1175:THR:HB	2.29	0.52
1:E:984:ALA:CA	1:E:999:ARG:O	2.47	0.52
1:E:1226:SER:OG	1:E:1227:PRO:HD2	2.09	0.52
1:G:122:ARG:NE	1:G:126:PHE:CE2	2.78	0.52
1:G:400:LEU:O	1:G:404:TRP:HE3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:564:VAL:HG11	1:G:583:GLN:CG	2.39	0.52
1:G:928:VAL:CG2	1:G:1224:HIS:CG	2.92	0.52
1:I:122:ARG:NE	1:I:126:PHE:CE2	2.78	0.52
1:I:137:GLN:NE2	1:I:173:LEU:HB3	2.24	0.52
1:I:147:PRO:HG3	1:K:121:GLN:CD	2.30	0.52
1:I:246:TRP:CH2	1:I:370:ILE:HG22	2.45	0.52
1:I:1233:VAL:HG11	1:I:1243:ILE:CG1	2.28	0.52
1:K:296:SER:O	1:K:300:ASN:N	2.42	0.52
1:K:903:ASP:CG	1:K:1175:THR:HB	2.29	0.52
1:K:926:VAL:CG1	1:K:938:LEU:O	2.57	0.52
1:K:1146:ASP:HB2	1:K:1150:GLU:HB3	1.90	0.52
1:K:1226:SER:OG	1:K:1227:PRO:HD2	2.09	0.52
1:M:525:GLU:HA	1:M:528:GLU:HG2	1.92	0.52
1:M:703:ASN:ND2	1:M:746:VAL:O	2.42	0.52
1:M:903:ASP:O	1:M:904:GLN:CB	2.56	0.52
1:M:1200:LYS:CD	1:M:1202:TRP:CE2	2.81	0.52
1:M:1233:VAL:CA	1:M:1242:TYR:O	2.58	0.52
1:A:926:VAL:HB	1:A:938:LEU:O	2.10	0.52
1:C:332:ARG:CG	1:C:332:ARG:NH1	2.73	0.52
1:C:390:GLN:HB3	1:C:393:VAL:HG22	1.91	0.52
1:E:334:PHE:CB	1:E:337:ARG:CG	2.87	0.52
1:E:980:ASP:OD1	1:E:981:GLU:N	2.40	0.52
1:E:1233:VAL:HG11	1:E:1243:ILE:CG1	2.28	0.52
1:G:246:TRP:CH2	1:G:370:ILE:HG22	2.45	0.52
1:I:296:SER:O	1:I:300:ASN:N	2.42	0.52
1:I:317:CYS:SG	1:I:323:VAL:CG1	2.98	0.52
1:I:513:LYS:CE	1:I:522:LEU:HG	2.40	0.52
1:I:525:GLU:HA	1:I:528:GLU:HG2	1.92	0.52
1:I:657:GLU:HB3	1:I:680:LYS:HD2	1.92	0.52
1:I:1029:VAL:HG11	1:I:1073:ILE:HA	1.90	0.52
1:I:1233:VAL:CA	1:I:1242:TYR:O	2.58	0.52
1:K:147:PRO:HG3	1:M:121:GLN:CD	2.30	0.52
1:K:242:LEU:N	1:K:242:LEU:CD1	2.73	0.52
1:K:537:ASP:HA	1:K:540:VAL:HG23	1.92	0.52
1:K:1201:TRP:CE3	1:K:1210:SER:CB	2.87	0.52
1:K:1233:VAL:CA	1:K:1242:TYR:O	2.58	0.52
2:L:18:HIS:CE1	5:L:201:HEM:ND	2.76	0.52
1:M:137:GLN:NE2	1:M:173:LEU:HB3	2.23	0.52
1:M:296:SER:O	1:M:300:ASN:N	2.42	0.52
1:M:374:MET:HA	1:M:374:MET:HE3	1.90	0.52
1:M:544:PHE:HE1	1:M:576:VAL:CG1	1.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:849:SER:HB2	1:M:890:PHE:CZ	2.44	0.52
1:M:1233:VAL:HA	1:M:1242:TYR:O	2.09	0.52
1:A:160:LYS:NZ	1:A:160:LYS:CB	2.73	0.52
1:A:902:ASP:HB3	2:B:72:LYS:NZ	2.24	0.52
1:C:147:PRO:HG3	1:E:121:GLN:CD	2.30	0.52
1:C:479:ASP:CG	1:C:483:TRP:HE1	2.13	0.52
1:C:513:LYS:CE	1:C:522:LEU:HG	2.40	0.52
1:C:1233:VAL:CB	1:C:1242:TYR:O	2.54	0.52
1:E:147:PRO:HG3	1:G:121:GLN:CD	2.30	0.52
1:E:525:GLU:HA	1:E:528:GLU:HG2	1.91	0.52
1:E:657:GLU:HB3	1:E:680:LYS:HD2	1.92	0.52
1:G:479:ASP:CG	1:G:483:TRP:HE1	2.13	0.52
1:G:657:GLU:HB3	1:G:680:LYS:HD2	1.92	0.52
1:G:1167:PRO:CB	1:G:1202:TRP:CE2	2.93	0.52
1:G:1167:PRO:O	1:G:1202:TRP:CE2	2.63	0.52
1:I:298:PHE:CZ	1:I:325:SER:HA	2.42	0.52
1:I:479:ASP:CG	1:I:483:TRP:HE1	2.13	0.52
1:I:564:VAL:HG11	1:I:583:GLN:CG	2.39	0.52
1:K:246:TRP:CH2	1:K:370:ILE:HG22	2.45	0.52
1:K:479:ASP:CG	1:K:483:TRP:HE1	2.13	0.52
1:K:926:VAL:HB	1:K:938:LEU:O	2.10	0.52
1:M:334:PHE:CB	1:M:337:ARG:CG	2.87	0.52
1:M:374:MET:CE	1:M:374:MET:CA	2.86	0.52
1:M:862:TYR:CE1	1:M:885:VAL:HG12	2.21	0.52
1:M:926:VAL:HB	1:M:938:LEU:O	2.10	0.52
1:A:147:PRO:HG3	1:C:121:GLN:CD	2.30	0.52
1:A:344:GLN:CD	1:A:352:ARG:HG3	2.30	0.52
1:A:479:ASP:CG	1:A:483:TRP:HE1	2.13	0.52
1:A:505:PHE:HZ	1:A:540:VAL:CG1	2.17	0.52
1:A:928:VAL:CG2	1:A:1224:HIS:CG	2.92	0.52
1:A:1167:PRO:O	1:A:1202:TRP:CE2	2.63	0.52
1:C:246:TRP:CH2	1:C:370:ILE:HG22	2.45	0.52
1:C:327:ILE:HD13	1:C:353:ILE:HG21	1.92	0.52
1:C:551:ASN:O	1:C:555:LEU:HB3	2.08	0.52
1:C:564:VAL:HG11	1:C:583:GLN:CG	2.39	0.52
1:E:298:PHE:CZ	1:E:325:SER:HA	2.42	0.52
1:E:344:GLN:CD	1:E:352:ARG:HG3	2.30	0.52
1:E:479:ASP:CG	1:E:483:TRP:HE1	2.13	0.52
1:E:926:VAL:HB	1:E:938:LEU:O	2.10	0.52
1:G:206:LEU:HD21	1:G:235:HIS:HD2	1.75	0.52
1:G:525:GLU:HA	1:G:528:GLU:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:373:GLU:HA	1:I:373:GLU:OE2	2.09	0.52
1:I:884:TRP:CH2	2:J:81:ILE:HD11	2.44	0.52
2:J:18:HIS:CE1	5:J:201:HEM:ND	2.76	0.52
1:K:174:LEU:HD23	1:K:175:GLU:HA	1.92	0.52
1:K:373:GLU:HA	1:K:373:GLU:OE2	2.09	0.52
1:K:564:VAL:HG11	1:K:583:GLN:CG	2.39	0.52
1:K:1213:PHE:O	1:K:1214:TYR:CB	2.49	0.52
1:K:1220:LEU:CD1	1:K:1220:LEU:N	2.53	0.52
2:L:103:ASN:C	2:L:104:GLU:O	2.46	0.52
1:A:513:LYS:CE	1:A:522:LEU:HG	2.40	0.52
1:A:879:ARG:HB3	1:A:921:MET:HE2	1.84	0.52
1:A:926:VAL:CG1	1:A:938:LEU:O	2.57	0.52
1:C:160:LYS:NZ	1:C:160:LYS:CB	2.73	0.52
1:C:344:GLN:CD	1:C:352:ARG:HG3	2.30	0.52
1:E:327:ILE:HD13	1:E:353:ILE:HG21	1.92	0.52
1:E:389:LEU:HD21	1:E:395:VAL:CG2	2.40	0.52
1:E:390:GLN:HB3	1:E:393:VAL:HG22	1.91	0.52
1:E:575:GLU:O	1:E:575:GLU:HG3	2.10	0.52
1:E:1233:VAL:CA	1:E:1242:TYR:O	2.58	0.52
1:G:147:PRO:HG3	1:I:121:GLN:CD	2.30	0.52
1:G:364:LEU:CD1	1:G:368:MET:HE2	2.39	0.52
1:G:389:LEU:HD21	1:G:395:VAL:CG2	2.40	0.52
1:G:537:ASP:HA	1:G:540:VAL:HG23	1.92	0.52
1:G:1026:GLU:HG2	1:G:1041:ARG:HA	1.91	0.52
1:G:1233:VAL:CA	1:G:1242:TYR:O	2.58	0.52
1:I:242:LEU:N	1:I:242:LEU:CD1	2.73	0.52
1:I:528:GLU:O	1:I:532:ILE:HG22	2.10	0.52
2:J:18:HIS:NE2	5:J:201:HEM:CHD	2.72	0.52
1:K:657:GLU:HB3	1:K:680:LYS:HD2	1.92	0.52
1:M:174:LEU:HD23	1:M:175:GLU:HA	1.92	0.52
1:M:479:ASP:CG	1:M:483:TRP:HE1	2.13	0.52
1:M:513:LYS:CD	1:M:522:LEU:HG	2.36	0.52
1:M:564:VAL:HG11	1:M:583:GLN:CG	2.39	0.52
1:M:1233:VAL:CB	1:M:1242:TYR:O	2.54	0.52
1:A:334:PHE:CB	1:A:337:ARG:CG	2.87	0.52
1:C:242:LEU:N	1:C:242:LEU:CD1	2.73	0.52
1:C:318:LYS:HD3	1:C:439:ASP:CB	2.40	0.52
1:E:122:ARG:NE	1:E:126:PHE:CE2	2.78	0.52
1:E:318:LYS:HD3	1:E:439:ASP:CB	2.40	0.52
1:E:373:GLU:OE2	1:E:373:GLU:HA	2.09	0.52
1:E:1239:GLY:O	1:E:1240:ILE:HB	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:318:LYS:HD3	1:G:439:ASP:CB	2.40	0.52
1:G:327:ILE:HD13	1:G:353:ILE:CG2	2.40	0.52
1:G:779:LYS:NZ	1:G:827:HIS:O	2.43	0.52
1:I:344:GLN:CD	1:I:352:ARG:HG3	2.30	0.52
1:I:390:GLN:HB3	1:I:393:VAL:HG22	1.91	0.52
1:I:853:HIS:O	1:I:869:THR:N	2.38	0.52
1:I:1239:GLY:O	1:I:1240:ILE:HB	2.08	0.52
1:K:122:ARG:NE	1:K:126:PHE:CE2	2.78	0.52
1:K:206:LEU:HD21	1:K:235:HIS:HD2	1.75	0.52
1:K:327:ILE:HD13	1:K:353:ILE:CG2	2.40	0.52
1:K:389:LEU:HD21	1:K:395:VAL:CG2	2.40	0.52
1:K:598:ILE:O	1:K:598:ILE:HG13	2.10	0.52
1:K:779:LYS:NZ	1:K:827:HIS:O	2.43	0.52
1:K:1176:HIS:CB	1:K:1218:THR:HB	2.36	0.52
1:M:389:LEU:HD21	1:M:395:VAL:CG2	2.40	0.52
1:A:597:TRP:CH2	1:A:603:ILE:HG12	2.43	0.51
1:A:1167:PRO:CB	1:A:1202:TRP:CE2	2.93	0.51
1:A:1187:PRO:CG	1:A:1229:PHE:HB3	2.40	0.51
1:C:122:ARG:NE	1:C:126:PHE:CE2	2.78	0.51
1:C:334:PHE:CB	1:C:337:ARG:CG	2.87	0.51
1:C:389:LEU:HD21	1:C:395:VAL:CG2	2.40	0.51
1:C:461:ILE:CD1	1:C:491:MET:HG3	2.40	0.51
1:C:1167:PRO:O	1:C:1202:TRP:CE2	2.63	0.51
1:C:1176:HIS:CB	1:C:1218:THR:HB	2.36	0.51
1:C:1247:LEU:CD1	1:C:1248:GLU:H	2.13	0.51
1:E:374:MET:CE	1:E:374:MET:CA	2.85	0.51
1:E:537:ASP:HA	1:E:540:VAL:HG23	1.92	0.51
1:E:544:PHE:HD1	1:E:576:VAL:CG1	2.17	0.51
1:E:598:ILE:HG13	1:E:598:ILE:O	2.10	0.51
1:E:884:TRP:CZ3	1:E:885:VAL:O	2.64	0.51
1:G:398:LYS:O	1:G:402:ILE:HG12	2.10	0.51
1:G:575:GLU:HG3	1:G:575:GLU:O	2.10	0.51
1:I:926:VAL:HB	1:I:938:LEU:O	2.10	0.51
1:K:390:GLN:HB3	1:K:393:VAL:HG22	1.91	0.51
1:K:849:SER:HB2	1:K:890:PHE:CZ	2.45	0.51
1:K:884:TRP:CZ3	1:K:885:VAL:O	2.64	0.51
1:M:1183:LEU:N	1:M:1183:LEU:CD1	2.73	0.51
1:A:174:LEU:HD23	1:A:175:GLU:HA	1.92	0.51
1:A:561:PRO:CB	1:A:1214:TYR:CD2	2.86	0.51
1:C:231:MET:SD	1:C:258:CYS:SG	2.97	0.51
1:C:298:PHE:CZ	1:C:325:SER:HA	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1173:ALA:O	1:C:1174:ALA:O	2.29	0.51
1:E:639:LEU:N	1:E:653:ILE:HG21	2.22	0.51
2:H:103:ASN:O	2:H:104:GLU:C	2.46	0.51
1:I:174:LEU:HD23	1:I:175:GLU:HA	1.92	0.51
1:I:260:ILE:O	1:I:260:ILE:HG13	2.05	0.51
1:I:327:ILE:HD13	1:I:353:ILE:CG2	2.40	0.51
1:I:389:LEU:HD21	1:I:395:VAL:CG2	2.40	0.51
1:I:1167:PRO:O	1:I:1202:TRP:CE2	2.63	0.51
1:K:398:LYS:O	1:K:402:ILE:HG12	2.11	0.51
1:K:505:PHE:HZ	1:K:540:VAL:CG1	2.17	0.51
1:M:456:LEU:O	1:M:459:LYS:N	2.38	0.51
1:M:926:VAL:CG1	1:M:938:LEU:O	2.57	0.51
1:A:327:ILE:HD13	1:A:353:ILE:HG21	1.92	0.51
1:A:598:ILE:O	1:A:598:ILE:HG13	2.10	0.51
1:A:747:ASN:ND2	1:A:801:VAL:O	2.38	0.51
1:A:849:SER:HB2	1:A:890:PHE:CZ	2.45	0.51
1:A:1247:LEU:CD1	1:A:1248:GLU:N	2.73	0.51
1:C:137:GLN:NE2	1:C:173:LEU:HB3	2.24	0.51
1:C:416:GLN:NE2	1:C:416:GLN:CA	2.73	0.51
1:C:528:GLU:O	1:C:532:ILE:HG22	2.10	0.51
1:C:557:ARG:HH21	1:C:1174:ALA:HB2	1.75	0.51
1:C:657:GLU:HB3	1:C:680:LYS:HD2	1.92	0.51
1:C:849:SER:HB2	1:C:890:PHE:CZ	2.45	0.51
1:C:926:VAL:HB	1:C:938:LEU:O	2.10	0.51
1:C:1067:VAL:N	1:C:1081:PHE:O	2.40	0.51
1:E:385:ASP:OD2	1:E:403:LEU:HD11	2.11	0.51
1:E:461:ILE:CD1	1:E:491:MET:HG3	2.40	0.51
1:E:513:LYS:CE	1:E:522:LEU:HG	2.40	0.51
1:E:639:LEU:CG	1:E:653:ILE:HG21	2.36	0.51
1:E:849:SER:HB2	1:E:890:PHE:CZ	2.45	0.51
1:E:1026:GLU:HG2	1:E:1041:ARG:HA	1.91	0.51
1:E:1168:LEU:HD11	1:E:1171:GLU:CG	2.41	0.51
1:G:174:LEU:HD23	1:G:175:GLU:HA	1.92	0.51
1:G:528:GLU:O	1:G:532:ILE:HG22	2.10	0.51
1:G:849:SER:HB2	1:G:890:PHE:CZ	2.45	0.51
1:G:980:ASP:OD1	1:G:981:GLU:N	2.40	0.51
1:I:385:ASP:OD2	1:I:403:LEU:HD11	2.11	0.51
1:K:385:ASP:OD2	1:K:403:LEU:HD11	2.11	0.51
1:K:528:GLU:O	1:K:532:ILE:HG22	2.10	0.51
1:K:595:LEU:HD22	1:K:1244:LEU:HD12	1.78	0.51
1:M:347:ASN:C	1:M:348:LYS:HG2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:385:ASP:OD2	1:M:403:LEU:HD11	2.11	0.51
1:M:505:PHE:CZ	1:M:540:VAL:CG1	2.90	0.51
1:A:122:ARG:NE	1:A:126:PHE:CE2	2.78	0.51
1:A:318:LYS:HD3	1:A:439:ASP:CB	2.40	0.51
1:A:639:LEU:CG	1:A:653:ILE:HG21	2.36	0.51
1:A:1187:PRO:HD3	1:A:1229:PHE:CG	2.45	0.51
1:C:244:ASP:O	1:C:245:VAL:HB	2.11	0.51
1:C:373:GLU:HA	1:C:373:GLU:OE2	2.09	0.51
1:C:862:TYR:HD1	1:C:885:VAL:H	1.56	0.51
1:C:1187:PRO:HD3	1:C:1229:PHE:CG	2.45	0.51
1:C:1239:GLY:O	1:C:1240:ILE:HB	2.08	0.51
1:E:667:THR:OG1	1:E:708:THR:O	2.29	0.51
1:E:1167:PRO:O	1:E:1202:TRP:CE2	2.63	0.51
1:E:1173:ALA:O	1:E:1174:ALA:O	2.29	0.51
1:G:347:ASN:O	1:G:348:LYS:CB	2.59	0.51
1:G:385:ASP:OD2	1:G:403:LEU:HD11	2.11	0.51
1:G:1239:GLY:O	1:G:1240:ILE:HB	2.08	0.51
1:I:318:LYS:HD3	1:I:439:ASP:CB	2.40	0.51
1:I:837:THR:HG21	1:I:843:ILE:HD11	1.92	0.51
1:I:849:SER:HB2	1:I:890:PHE:CZ	2.45	0.51
1:I:1173:ALA:O	1:I:1174:ALA:O	2.29	0.51
1:K:416:GLN:NE2	1:K:416:GLN:CA	2.73	0.51
1:K:1173:ALA:O	1:K:1174:ALA:O	2.29	0.51
2:L:18:HIS:NE2	5:L:201:HEM:CHD	2.72	0.51
1:M:125:VAL:O	1:M:125:VAL:HG12	2.11	0.51
1:M:246:TRP:CH2	1:M:370:ILE:HG22	2.45	0.51
1:M:575:GLU:O	1:M:575:GLU:HG3	2.10	0.51
1:M:1187:PRO:CG	1:M:1229:PHE:HB3	2.40	0.51
1:A:244:ASP:O	1:A:245:VAL:HB	2.11	0.51
1:A:327:ILE:HD13	1:A:353:ILE:CG2	2.40	0.51
1:A:779:LYS:NZ	1:A:827:HIS:O	2.43	0.51
1:A:884:TRP:CZ3	1:A:885:VAL:O	2.64	0.51
1:C:174:LEU:HD23	1:C:175:GLU:HA	1.92	0.51
1:C:385:ASP:OD2	1:C:403:LEU:HD11	2.11	0.51
1:C:560:PHE:O	1:C:561:PRO:C	2.49	0.51
1:C:639:LEU:CG	1:C:653:ILE:HG21	2.36	0.51
1:C:879:ARG:CB	1:C:921:MET:CE	2.73	0.51
1:C:945:ARG:HG2	1:C:946:LEU:HG	1.92	0.51
1:C:1031:ASN:HB3	1:C:1036:LYS:HB2	1.92	0.51
1:C:1236:ASP:OD1	1:C:1236:ASP:N	2.43	0.51
1:E:347:ASN:O	1:E:348:LYS:CB	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:416:GLN:NE2	1:E:416:GLN:CA	2.73	0.51
1:E:557:ARG:HH21	1:E:1174:ALA:HB2	1.75	0.51
1:E:1031:ASN:HB3	1:E:1036:LYS:HB2	1.92	0.51
1:E:1187:PRO:HD3	1:E:1229:PHE:CG	2.45	0.51
1:G:327:ILE:HD13	1:G:353:ILE:HG21	1.92	0.51
1:G:557:ARG:HH21	1:G:1174:ALA:HB2	1.76	0.51
1:G:598:ILE:HG13	1:G:598:ILE:O	2.10	0.51
1:I:747:ASN:ND2	1:I:801:VAL:O	2.38	0.51
1:I:1168:LEU:HD11	1:I:1171:GLU:CG	2.41	0.51
1:I:1171:GLU:CG	1:I:1172:GLY:N	2.68	0.51
1:K:125:VAL:O	1:K:125:VAL:HG12	2.11	0.51
1:K:529:TYR:HA	1:K:532:ILE:HG21	1.93	0.51
1:M:373:GLU:OE2	1:M:373:GLU:HA	2.09	0.51
1:M:744:ASN:HB3	1:M:763:ALA:HB3	1.93	0.51
1:M:1173:ALA:O	1:M:1174:ALA:O	2.29	0.51
1:A:347:ASN:C	1:A:348:LYS:HG2	2.31	0.51
1:A:385:ASP:OD2	1:A:403:LEU:HD11	2.11	0.51
1:A:667:THR:OG1	1:A:708:THR:O	2.29	0.51
1:A:1173:ALA:O	1:A:1174:ALA:O	2.29	0.51
1:C:347:ASN:O	1:C:348:LYS:CB	2.59	0.51
1:C:744:ASN:HB3	1:C:763:ALA:HB3	1.93	0.51
1:G:229:ILE:HG22	1:G:233:ARG:CD	2.28	0.51
1:G:461:ILE:CD1	1:G:491:MET:HG3	2.40	0.51
1:G:625:GLU:HG3	1:G:667:THR:HA	1.93	0.51
1:G:1173:ALA:O	1:G:1174:ALA:O	2.29	0.51
1:G:1236:ASP:N	1:G:1236:ASP:OD1	2.43	0.51
1:I:326:LEU:HD23	1:I:353:ILE:CG2	2.41	0.51
1:I:347:ASN:O	1:I:348:LYS:CB	2.59	0.51
1:I:667:THR:OG1	1:I:708:THR:O	2.29	0.51
1:I:1167:PRO:CB	1:I:1202:TRP:CE2	2.93	0.51
1:I:1176:HIS:CB	1:I:1218:THR:HB	2.36	0.51
1:K:326:LEU:HD23	1:K:353:ILE:CG2	2.41	0.51
1:K:334:PHE:CB	1:K:337:ARG:CD	2.87	0.51
1:K:862:TYR:HD1	1:K:885:VAL:H	1.56	0.51
1:K:1183:LEU:N	1:K:1183:LEU:CD1	2.73	0.51
1:M:242:LEU:N	1:M:242:LEU:CD1	2.73	0.51
1:M:244:ASP:O	1:M:245:VAL:HB	2.11	0.51
1:M:333:ASP:N	1:M:333:ASP:OD1	2.44	0.51
1:M:598:ILE:HG13	1:M:598:ILE:O	2.10	0.51
1:M:920:VAL:HG12	1:M:921:MET:N	2.24	0.51
1:A:537:ASP:HA	1:A:540:VAL:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:ARG:HH21	1:A:1174:ALA:HB2	1.76	0.51
1:A:560:PHE:O	1:A:561:PRO:C	2.49	0.51
1:A:744:ASN:HB3	1:A:763:ALA:HB3	1.93	0.51
1:A:1031:ASN:HB3	1:A:1036:LYS:HB2	1.92	0.51
1:A:1212:THR:CG2	1:A:1213:PHE:H	2.12	0.51
1:C:244:ASP:O	1:C:245:VAL:CB	2.59	0.51
1:C:327:ILE:HD13	1:C:353:ILE:CG2	2.40	0.51
1:C:598:ILE:O	1:C:598:ILE:HG13	2.10	0.51
1:C:747:ASN:ND2	1:C:801:VAL:O	2.38	0.51
1:C:1168:LEU:HD11	1:C:1171:GLU:CG	2.41	0.51
2:D:18:HIS:NE2	5:D:201:HEM:CHD	2.72	0.51
1:E:160:LYS:CB	1:E:160:LYS:NZ	2.73	0.51
1:E:206:LEU:HD21	1:E:235:HIS:HD2	1.75	0.51
1:E:242:LEU:CD1	1:E:242:LEU:N	2.73	0.51
1:E:567:GLY:O	1:E:569:CYS:N	2.41	0.51
1:E:744:ASN:HB3	1:E:763:ALA:HB3	1.93	0.51
1:E:779:LYS:NZ	1:E:827:HIS:O	2.43	0.51
1:G:505:PHE:CZ	1:G:540:VAL:CG1	2.90	0.51
1:G:1168:LEU:HD11	1:G:1171:GLU:CG	2.41	0.51
1:G:1187:PRO:HD3	1:G:1229:PHE:CG	2.45	0.51
1:I:347:ASN:C	1:I:348:LYS:HG2	2.31	0.51
1:I:529:TYR:HA	1:I:532:ILE:HG21	1.93	0.51
1:I:557:ARG:HH21	1:I:1174:ALA:HB2	1.75	0.51
1:I:598:ILE:O	1:I:598:ILE:HG13	2.10	0.51
1:I:884:TRP:CZ3	1:I:885:VAL:O	2.64	0.51
1:I:923:LYS:CB	1:I:940:VAL:HG21	2.41	0.51
1:K:260:ILE:O	1:K:260:ILE:HG13	2.05	0.51
1:K:575:GLU:HG3	1:K:575:GLU:O	2.10	0.51
1:K:621:ALA:HA	1:K:631:ALA:O	2.11	0.51
1:K:945:ARG:HG2	1:K:946:LEU:HG	1.92	0.51
1:M:390:GLN:HB3	1:M:393:VAL:HG22	1.91	0.51
1:M:461:ILE:CD1	1:M:491:MET:HG3	2.40	0.51
1:M:528:GLU:O	1:M:532:ILE:HG22	2.10	0.51
1:M:558:GLN:CB	1:M:559:PRO:CD	2.78	0.51
1:A:390:GLN:HB3	1:A:393:VAL:HG22	1.91	0.51
1:A:561:PRO:O	1:A:563:ILE:N	2.44	0.51
1:A:980:ASP:OD1	1:A:981:GLU:N	2.40	0.51
1:C:537:ASP:HA	1:C:540:VAL:HG23	1.92	0.51
1:C:561:PRO:O	1:C:563:ILE:N	2.44	0.51
1:E:332:ARG:CG	1:E:332:ARG:NH1	2.73	0.51
1:E:347:ASN:C	1:E:348:LYS:HG2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:398:LYS:O	1:E:402:ILE:HG12	2.10	0.51
1:E:560:PHE:O	1:E:561:PRO:C	2.49	0.51
1:E:564:VAL:HG11	1:E:583:GLN:CG	2.39	0.51
1:G:125:VAL:O	1:G:125:VAL:HG12	2.11	0.51
1:G:390:GLN:HB3	1:G:393:VAL:HG22	1.91	0.51
1:G:567:GLY:O	1:G:569:CYS:N	2.41	0.51
1:G:1176:HIS:CB	1:G:1218:THR:HB	2.36	0.51
2:H:18:HIS:CE1	5:H:201:HEM:ND	2.76	0.51
1:I:461:ILE:CD1	1:I:491:MET:HG3	2.40	0.51
1:K:318:LYS:HD3	1:K:439:ASP:CB	2.41	0.51
1:K:374:MET:CE	1:K:374:MET:CA	2.86	0.51
1:K:923:LYS:CB	1:K:940:VAL:HG21	2.41	0.51
1:M:122:ARG:NE	1:M:126:PHE:CE2	2.78	0.51
1:M:149:TRP:CZ3	1:M:260:ILE:HD11	2.46	0.51
1:M:326:LEU:HD23	1:M:353:ILE:CG2	2.41	0.51
1:M:557:ARG:HH21	1:M:1174:ALA:HB2	1.75	0.51
1:M:561:PRO:O	1:M:563:ILE:N	2.44	0.51
1:M:621:ALA:HA	1:M:631:ALA:O	2.11	0.51
1:M:639:LEU:N	1:M:653:ILE:HG21	2.22	0.51
1:M:639:LEU:CG	1:M:653:ILE:HG21	2.36	0.51
1:M:1167:PRO:O	1:M:1202:TRP:CE2	2.63	0.51
1:M:1187:PRO:HD3	1:M:1229:PHE:CG	2.45	0.51
1:A:333:ASP:N	1:A:333:ASP:OD1	2.44	0.51
1:A:546:GLU:HB3	1:A:570:GLU:OE1	2.11	0.51
1:A:595:LEU:HD13	1:A:1244:LEU:HD13	1.93	0.51
1:A:657:GLU:HB3	1:A:680:LYS:HD2	1.92	0.51
1:A:862:TYR:CE1	1:A:885:VAL:HG12	2.21	0.51
1:C:149:TRP:CZ3	1:C:260:ILE:HD11	2.46	0.51
1:C:595:LEU:HD13	1:C:1244:LEU:HD13	1.93	0.51
1:C:837:THR:HG21	1:C:843:ILE:HD11	1.92	0.51
1:E:174:LEU:HD23	1:E:175:GLU:HA	1.92	0.51
1:E:244:ASP:O	1:E:245:VAL:HB	2.11	0.51
1:E:317:CYS:SG	1:E:323:VAL:CG1	2.98	0.51
1:E:529:TYR:HA	1:E:532:ILE:HG21	1.93	0.51
1:E:862:TYR:HD1	1:E:885:VAL:H	1.56	0.51
1:E:1236:ASP:OD1	1:E:1236:ASP:N	2.43	0.51
1:G:244:ASP:O	1:G:245:VAL:HB	2.11	0.51
1:G:416:GLN:NE2	1:G:416:GLN:CA	2.73	0.51
1:G:621:ALA:HA	1:G:631:ALA:O	2.11	0.51
1:I:1187:PRO:CG	1:I:1229:PHE:HB3	2.40	0.51
1:K:244:ASP:O	1:K:245:VAL:HB	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:837:THR:HG21	1:K:843:ILE:HD11	1.92	0.51
1:K:1067:VAL:N	1:K:1081:PHE:O	2.40	0.51
1:K:1168:LEU:HD11	1:K:1171:GLU:CG	2.41	0.51
1:M:327:ILE:HD13	1:M:353:ILE:CG2	2.40	0.51
1:M:537:ASP:HA	1:M:540:VAL:HG23	1.92	0.51
1:M:1031:ASN:HB3	1:M:1036:LYS:HB2	1.92	0.51
1:A:149:TRP:CZ3	1:A:260:ILE:HD11	2.46	0.51
1:A:229:ILE:O	1:A:233:ARG:HG2	2.11	0.51
1:A:528:GLU:O	1:A:532:ILE:HG22	2.10	0.51
1:C:546:GLU:HB3	1:C:570:GLU:OE1	2.11	0.51
1:C:1228:ASP:O	1:C:1229:PHE:CB	2.59	0.51
1:E:246:TRP:C	1:E:247:ASP:OD1	2.50	0.51
1:E:326:LEU:HD23	1:E:353:ILE:CG2	2.41	0.51
1:E:337:ARG:HD3	1:E:341:TYR:HE2	1.76	0.51
1:E:505:PHE:HZ	1:E:540:VAL:CG1	2.17	0.51
1:E:595:LEU:HD13	1:E:1244:LEU:HD13	1.93	0.51
1:E:945:ARG:HG2	1:E:946:LEU:HG	1.92	0.51
1:E:1175:THR:HG1	1:E:1176:HIS:CE1	2.28	0.51
1:E:1228:ASP:O	1:E:1229:PHE:CB	2.59	0.51
1:G:853:HIS:O	1:G:869:THR:N	2.39	0.51
1:G:1031:ASN:HB3	1:G:1036:LYS:HB2	1.92	0.51
1:I:244:ASP:O	1:I:245:VAL:HB	2.11	0.51
1:I:337:ARG:HD3	1:I:341:TYR:HE2	1.76	0.51
1:I:398:LYS:O	1:I:402:ILE:HG12	2.10	0.51
1:I:621:ALA:HA	1:I:631:ALA:O	2.11	0.51
1:I:862:TYR:HD1	1:I:885:VAL:H	1.56	0.51
1:I:1228:ASP:O	1:I:1229:PHE:CB	2.59	0.51
1:K:561:PRO:O	1:K:563:ILE:N	2.44	0.51
1:K:744:ASN:HB3	1:K:763:ALA:HB3	1.93	0.51
1:K:1167:PRO:O	1:K:1202:TRP:CE2	2.63	0.51
1:K:1187:PRO:CG	1:K:1229:PHE:HB3	2.40	0.51
1:K:1228:ASP:O	1:K:1229:PHE:CB	2.59	0.51
1:M:160:LYS:CB	1:M:160:LYS:NZ	2.73	0.51
1:M:546:GLU:HB3	1:M:570:GLU:OE1	2.11	0.51
1:M:747:ASN:ND2	1:M:801:VAL:O	2.38	0.51
1:A:206:LEU:HD21	1:A:235:HIS:HD2	1.75	0.50
1:A:353:ILE:O	1:A:354:ARG:HG2	2.11	0.50
1:A:389:LEU:HD21	1:A:395:VAL:CG2	2.40	0.50
1:A:853:HIS:O	1:A:869:THR:N	2.39	0.50
1:A:1236:ASP:N	1:A:1236:ASP:OD1	2.43	0.50
1:E:149:TRP:CZ3	1:E:260:ILE:HD11	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:621:ALA:HA	1:E:631:ALA:O	2.11	0.50
1:E:625:GLU:HG3	1:E:667:THR:HA	1.93	0.50
1:E:837:THR:HG21	1:E:843:ILE:HD11	1.92	0.50
1:G:149:TRP:CZ3	1:G:260:ILE:HD11	2.46	0.50
1:G:160:LYS:NZ	1:G:160:LYS:CB	2.73	0.50
1:G:229:ILE:O	1:G:233:ARG:HG2	2.11	0.50
1:G:561:PRO:O	1:G:563:ILE:N	2.44	0.50
1:G:884:TRP:CZ3	1:G:885:VAL:O	2.64	0.50
1:G:945:ARG:HG2	1:G:946:LEU:HG	1.92	0.50
1:I:149:TRP:CZ3	1:I:260:ILE:HD11	2.46	0.50
1:I:229:ILE:O	1:I:233:ARG:HG2	2.11	0.50
1:I:595:LEU:HD22	1:I:1244:LEU:HD12	1.78	0.50
1:I:781:ILE:HD11	1:I:826:ILE:HA	1.93	0.50
1:I:945:ARG:HG2	1:I:946:LEU:HG	1.92	0.50
1:K:333:ASP:OD1	1:K:333:ASP:N	2.44	0.50
1:K:903:ASP:O	1:K:904:GLN:CB	2.56	0.50
1:K:1185:PHE:CD1	1:K:1192:LEU:CG	2.63	0.50
1:K:1217:GLY:O	1:K:1218:THR:CG2	2.54	0.50
1:M:298:PHE:CZ	1:M:325:SER:HA	2.42	0.50
1:M:595:LEU:HD22	1:M:1244:LEU:HD12	1.78	0.50
1:M:595:LEU:HD13	1:M:1244:LEU:HD13	1.93	0.50
1:A:242:LEU:HD12	1:A:242:LEU:N	2.26	0.50
1:A:242:LEU:N	1:A:242:LEU:CD1	2.73	0.50
1:A:398:LYS:O	1:A:402:ILE:HG12	2.10	0.50
1:A:416:GLN:NE2	1:A:416:GLN:CA	2.73	0.50
1:A:621:ALA:HA	1:A:631:ALA:O	2.11	0.50
1:C:242:LEU:HD12	1:C:242:LEU:N	2.26	0.50
1:C:347:ASN:C	1:C:348:LYS:HG2	2.31	0.50
1:C:1217:GLY:O	1:C:1218:THR:CG2	2.54	0.50
1:G:317:CYS:SG	1:G:323:VAL:CG1	2.98	0.50
1:G:926:VAL:HB	1:G:938:LEU:O	2.10	0.50
1:G:1067:VAL:N	1:G:1081:PHE:O	2.40	0.50
1:G:1228:ASP:O	1:G:1229:PHE:HB2	2.12	0.50
1:I:575:GLU:HG3	1:I:575:GLU:O	2.10	0.50
1:I:1228:ASP:O	1:I:1229:PHE:HB2	2.12	0.50
1:K:332:ARG:CG	1:K:332:ARG:NH1	2.73	0.50
1:K:337:ARG:HD3	1:K:341:TYR:HE2	1.76	0.50
1:K:353:ILE:O	1:K:354:ARG:HG2	2.11	0.50
1:K:567:GLY:O	1:K:569:CYS:N	2.41	0.50
1:K:781:ILE:HD11	1:K:826:ILE:HA	1.94	0.50
1:K:883:SER:HB2	1:K:902:ASP:CB	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:353:ILE:O	1:M:354:ARG:HG2	2.11	0.50
1:M:837:THR:HG21	1:M:843:ILE:HD11	1.92	0.50
1:M:884:TRP:CZ3	1:M:885:VAL:O	2.64	0.50
1:A:1168:LEU:HD11	1:A:1171:GLU:CG	2.41	0.50
1:C:206:LEU:HD21	1:C:235:HIS:HD2	1.75	0.50
1:C:246:TRP:C	1:C:247:ASP:OD1	2.50	0.50
1:C:398:LYS:O	1:C:402:ILE:HG12	2.10	0.50
1:C:625:GLU:HG3	1:C:667:THR:HA	1.93	0.50
1:C:884:TRP:CZ3	1:C:885:VAL:O	2.64	0.50
1:E:244:ASP:O	1:E:245:VAL:CB	2.59	0.50
1:G:242:LEU:N	1:G:242:LEU:CD1	2.73	0.50
1:G:246:TRP:C	1:G:247:ASP:OD1	2.50	0.50
1:G:1176:HIS:HB3	1:G:1218:THR:CG2	2.40	0.50
1:I:546:GLU:HB3	1:I:570:GLU:OE1	2.11	0.50
1:I:561:PRO:O	1:I:563:ILE:N	2.44	0.50
1:I:597:TRP:HZ2	1:I:603:ILE:HG12	1.70	0.50
1:I:1187:PRO:HD3	1:I:1229:PHE:CG	2.45	0.50
1:K:108:SER:HA	1:K:111:ARG:HD2	1.94	0.50
1:K:149:TRP:CZ3	1:K:260:ILE:HD11	2.46	0.50
1:K:557:ARG:HH21	1:K:1174:ALA:HB2	1.75	0.50
1:K:1187:PRO:HD3	1:K:1229:PHE:CG	2.45	0.50
1:M:206:LEU:HD21	1:M:235:HIS:HD2	1.75	0.50
1:M:317:CYS:SG	1:M:323:VAL:CG1	2.98	0.50
1:M:327:ILE:HD13	1:M:353:ILE:HG21	1.92	0.50
1:M:572:GLU:OE1	1:M:572:GLU:HA	2.12	0.50
1:M:902:ASP:HB3	2:N:72:LYS:NZ	2.24	0.50
1:M:1164:LEU:H	1:M:1164:LEU:CD1	2.17	0.50
1:A:244:ASP:O	1:A:245:VAL:CB	2.59	0.50
1:A:246:TRP:C	1:A:247:ASP:OD1	2.50	0.50
1:A:347:ASN:O	1:A:348:LYS:CB	2.59	0.50
1:A:575:GLU:HG3	1:A:575:GLU:O	2.10	0.50
1:A:945:ARG:HG2	1:A:946:LEU:HG	1.92	0.50
1:A:1153:ILE:HD11	1:A:1192:LEU:CD1	2.42	0.50
1:C:125:VAL:O	1:C:125:VAL:HG12	2.11	0.50
1:C:575:GLU:HG3	1:C:575:GLU:O	2.10	0.50
1:E:762:SER:OG	1:E:764:ASP:OD1	2.25	0.50
1:E:1228:ASP:O	1:E:1229:PHE:HB2	2.12	0.50
1:G:326:LEU:HD23	1:G:353:ILE:CG2	2.41	0.50
1:G:389:LEU:HD21	1:G:395:VAL:CG1	2.42	0.50
1:G:529:TYR:HA	1:G:532:ILE:HG21	1.93	0.50
1:G:781:ILE:HD11	1:G:826:ILE:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:837:THR:HG21	1:G:843:ILE:HD11	1.92	0.50
1:G:923:LYS:CB	1:G:940:VAL:HG21	2.41	0.50
1:I:246:TRP:C	1:I:247:ASP:OD1	2.50	0.50
1:I:353:ILE:O	1:I:354:ARG:HG2	2.11	0.50
1:I:389:LEU:HD21	1:I:395:VAL:CG1	2.42	0.50
1:I:762:SER:OG	1:I:764:ASP:OD1	2.25	0.50
1:I:879:ARG:HB3	1:I:921:MET:HE2	1.85	0.50
1:I:1247:LEU:CD1	1:I:1248:GLU:N	2.73	0.50
1:K:229:ILE:HG22	1:K:233:ARG:CD	2.28	0.50
1:K:327:ILE:HD13	1:K:353:ILE:HG21	1.92	0.50
1:K:1176:HIS:HB3	1:K:1218:THR:CG2	2.40	0.50
1:K:1228:ASP:O	1:K:1229:PHE:HB2	2.12	0.50
1:M:108:SER:HA	1:M:111:ARG:HD2	1.94	0.50
1:M:318:LYS:HD3	1:M:439:ASP:CB	2.41	0.50
1:M:337:ARG:HD3	1:M:341:TYR:HE2	1.76	0.50
1:M:416:GLN:NE2	1:M:416:GLN:CA	2.73	0.50
1:M:561:PRO:CB	1:M:1214:TYR:CD2	2.87	0.50
1:M:1153:ILE:HD11	1:M:1192:LEU:CD1	2.42	0.50
1:A:337:ARG:HD3	1:A:341:TYR:HE2	1.76	0.50
1:A:845:TYR:OH	1:A:888:VAL:O	2.25	0.50
1:C:108:SER:HA	1:C:111:ARG:HD2	1.94	0.50
1:C:779:LYS:NZ	1:C:827:HIS:O	2.43	0.50
1:C:1153:ILE:HD11	1:C:1192:LEU:CD1	2.42	0.50
1:E:125:VAL:O	1:E:125:VAL:HG12	2.11	0.50
1:E:546:GLU:HB3	1:E:570:GLU:OE1	2.11	0.50
1:E:781:ILE:HD11	1:E:826:ILE:HA	1.93	0.50
1:E:903:ASP:O	1:E:904:GLN:CB	2.57	0.50
1:E:1149:GLY:N	1:E:1180:VAL:CG2	2.74	0.50
1:G:337:ARG:HD3	1:G:341:TYR:HE2	1.76	0.50
1:G:353:ILE:O	1:G:354:ARG:HG2	2.11	0.50
1:I:1153:ILE:HD11	1:I:1192:LEU:CD1	2.42	0.50
1:K:160:LYS:NZ	1:K:160:LYS:CB	2.73	0.50
1:K:546:GLU:HB3	1:K:570:GLU:OE1	2.11	0.50
1:K:639:LEU:N	1:K:653:ILE:HG21	2.22	0.50
1:K:762:SER:OG	1:K:764:ASP:OD1	2.25	0.50
1:M:229:ILE:O	1:M:233:ARG:HG2	2.11	0.50
1:M:560:PHE:O	1:M:561:PRO:C	2.49	0.50
1:A:837:THR:HG21	1:A:843:ILE:HD11	1.92	0.50
1:A:1228:ASP:O	1:A:1229:PHE:CB	2.59	0.50
1:C:229:ILE:O	1:C:233:ARG:HG2	2.11	0.50
1:C:1247:LEU:CD1	1:C:1248:GLU:N	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:528:GLU:O	1:E:532:ILE:HG22	2.10	0.50
1:G:244:ASP:O	1:G:245:VAL:CB	2.59	0.50
1:G:1149:GLY:N	1:G:1180:VAL:CG2	2.74	0.50
1:I:160:LYS:NZ	1:I:160:LYS:CB	2.73	0.50
1:I:560:PHE:O	1:I:561:PRO:C	2.49	0.50
1:I:903:ASP:O	1:I:904:GLN:CB	2.56	0.50
1:I:1031:ASN:HB3	1:I:1036:LYS:HB2	1.92	0.50
1:K:1153:ILE:HD11	1:K:1192:LEU:CD1	2.42	0.50
1:K:1167:PRO:CB	1:K:1202:TRP:CE2	2.93	0.50
1:M:244:ASP:O	1:M:245:VAL:CB	2.59	0.50
1:M:945:ARG:HG2	1:M:946:LEU:HG	1.92	0.50
1:M:1228:ASP:O	1:M:1229:PHE:CB	2.59	0.50
1:A:489:TYR:C	1:A:489:TYR:CD1	2.85	0.50
1:A:529:TYR:HA	1:A:532:ILE:HG21	1.93	0.50
1:A:607:SER:CB	1:A:907:ARG:HG2	2.42	0.50
1:A:903:ASP:O	1:A:904:GLN:CB	2.57	0.50
1:A:1149:GLY:N	1:A:1180:VAL:CG2	2.74	0.50
1:C:333:ASP:OD1	1:C:333:ASP:N	2.44	0.50
1:C:337:ARG:HD3	1:C:341:TYR:HE2	1.76	0.50
1:C:621:ALA:HA	1:C:631:ALA:O	2.11	0.50
1:C:639:LEU:HD23	1:C:653:ILE:HD13	1.90	0.50
1:C:1149:GLY:N	1:C:1180:VAL:CG2	2.74	0.50
1:E:327:ILE:HD13	1:E:353:ILE:CG2	2.40	0.50
1:G:560:PHE:O	1:G:561:PRO:C	2.49	0.50
1:G:561:PRO:CB	1:G:1214:TYR:CD2	2.86	0.50
1:I:125:VAL:O	1:I:125:VAL:HG12	2.11	0.50
1:I:333:ASP:N	1:I:333:ASP:OD1	2.44	0.50
1:I:416:GLN:NE2	1:I:416:GLN:CA	2.73	0.50
1:I:862:TYR:CE2	1:I:881:HIS:CB	2.92	0.50
1:K:246:TRP:C	1:K:247:ASP:OD1	2.50	0.50
1:K:347:ASN:C	1:K:348:LYS:HG2	2.31	0.50
1:M:229:ILE:HG22	1:M:233:ARG:CD	2.28	0.50
1:M:246:TRP:C	1:M:247:ASP:OD1	2.50	0.50
1:M:489:TYR:CD1	1:M:489:TYR:C	2.85	0.50
1:M:1149:GLY:N	1:M:1180:VAL:CG2	2.74	0.50
1:A:108:SER:HA	1:A:111:ARG:HD2	1.94	0.50
1:A:923:LYS:CG	1:A:940:VAL:HG23	2.42	0.50
1:C:489:TYR:CD1	1:C:489:TYR:C	2.85	0.50
1:C:507:LEU:CD1	1:C:579:GLN:HG2	2.42	0.50
1:C:1167:PRO:CB	1:C:1202:TRP:CE2	2.93	0.50
1:E:137:GLN:NE2	1:E:173:LEU:HB3	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1176:HIS:CB	1:E:1218:THR:HB	2.36	0.50
1:G:180:GLY:HA3	1:G:237:ARG:C	2.33	0.50
1:G:333:ASP:N	1:G:333:ASP:OD1	2.44	0.50
1:G:457:HIS:NE2	1:G:493:SER:CB	2.72	0.50
1:G:548:LEU:O	1:G:551:ASN:N	2.45	0.50
1:I:108:SER:HA	1:I:111:ARG:HD2	1.94	0.50
1:I:244:ASP:O	1:I:245:VAL:CB	2.59	0.50
1:I:340:TYR:OH	1:I:352:ARG:HD2	2.12	0.50
1:I:1149:GLY:N	1:I:1180:VAL:CG2	2.74	0.50
1:K:461:ILE:CD1	1:K:491:MET:HG3	2.40	0.50
1:K:489:TYR:CD1	1:K:489:TYR:C	2.85	0.50
1:K:1149:GLY:N	1:K:1180:VAL:CG2	2.74	0.50
1:M:179:PRO:CG	1:M:237:ARG:HH11	2.17	0.50
1:M:398:LYS:O	1:M:402:ILE:HG12	2.10	0.50
1:M:557:ARG:HG3	1:M:558:GLN:N	2.27	0.50
1:M:1168:LEU:HD11	1:M:1171:GLU:CG	2.41	0.50
1:A:326:LEU:HD23	1:A:353:ILE:CG2	2.41	0.50
1:A:572:GLU:OE1	1:A:572:GLU:HA	2.11	0.50
1:C:326:LEU:HD23	1:C:353:ILE:CG2	2.41	0.50
1:C:353:ILE:O	1:C:354:ARG:HG2	2.11	0.50
1:E:180:GLY:HA3	1:E:237:ARG:C	2.33	0.50
1:E:229:ILE:O	1:E:233:ARG:HG2	2.11	0.50
1:E:353:ILE:O	1:E:354:ARG:HG2	2.11	0.50
1:E:561:PRO:O	1:E:563:ILE:N	2.44	0.50
1:E:1178:GLY:O	1:E:1179:TRP:CB	2.60	0.50
1:G:744:ASN:HB3	1:G:763:ALA:HB3	1.93	0.50
1:G:1247:LEU:CD1	1:G:1248:GLU:N	2.73	0.50
1:I:180:GLY:HA3	1:I:237:ARG:C	2.33	0.50
1:I:245:VAL:C	1:I:246:TRP:CD1	2.86	0.50
1:I:332:ARG:CG	1:I:332:ARG:NH1	2.73	0.50
1:I:505:PHE:HZ	1:I:540:VAL:CG1	2.17	0.50
1:I:639:LEU:N	1:I:653:ILE:HG21	2.22	0.50
1:I:779:LYS:NZ	1:I:827:HIS:O	2.43	0.50
1:K:389:LEU:HD21	1:K:395:VAL:CG1	2.42	0.50
1:K:557:ARG:HG3	1:K:558:GLN:N	2.27	0.50
1:K:595:LEU:HD13	1:K:1244:LEU:HD13	1.93	0.50
1:M:507:LEU:CD1	1:M:579:GLN:HG2	2.42	0.50
1:M:597:TRP:CZ2	1:M:603:ILE:CG1	2.94	0.50
1:M:781:ILE:HD11	1:M:826:ILE:HA	1.94	0.50
1:M:1167:PRO:CB	1:M:1202:TRP:CE2	2.93	0.50
1:M:1201:TRP:CE3	1:M:1210:SER:CB	2.87	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:523:ILE:HG12	1:A:548:LEU:HD13	1.94	0.49
1:C:561:PRO:CB	1:C:1214:TYR:CD2	2.86	0.49
1:E:108:SER:HA	1:E:111:ARG:HD2	1.94	0.49
1:E:1200:LYS:CD	1:E:1202:TRP:CE2	2.81	0.49
1:G:546:GLU:HB3	1:G:570:GLU:OE1	2.11	0.49
1:G:1171:GLU:CG	1:G:1172:GLY:N	2.68	0.49
1:I:548:LEU:O	1:I:551:ASN:N	2.45	0.49
1:I:557:ARG:HG3	1:I:558:GLN:N	2.27	0.49
1:I:883:SER:HB2	1:I:902:ASP:CB	2.39	0.49
1:K:229:ILE:O	1:K:233:ARG:HG2	2.11	0.49
1:K:409:GLU:HG3	1:M:340:TYR:HH	1.75	0.49
1:K:1136:SER:HB2	1:K:1139:SER:HB3	1.94	0.49
1:M:544:PHE:HD1	1:M:576:VAL:CG1	2.17	0.49
1:M:862:TYR:CE2	1:M:881:HIS:CB	2.92	0.49
1:A:389:LEU:HD21	1:A:395:VAL:CG1	2.42	0.49
1:A:419:VAL:HG11	1:A:426:CYS:HG	1.72	0.49
1:A:625:GLU:HG3	1:A:667:THR:HA	1.93	0.49
1:A:1183:LEU:N	1:A:1183:LEU:CD1	2.73	0.49
1:A:1200:LYS:CD	1:A:1202:TRP:CE2	2.81	0.49
1:A:1225:VAL:HG12	1:A:1229:PHE:HA	1.94	0.49
1:C:180:GLY:HA3	1:C:237:ARG:C	2.33	0.49
1:C:523:ILE:HG12	1:C:548:LEU:HD13	1.94	0.49
1:C:531:HIS:ND1	1:C:531:HIS:N	2.60	0.49
1:C:1187:PRO:HG2	1:C:1229:PHE:CB	2.42	0.49
1:C:1225:VAL:HG12	1:C:1229:PHE:HA	1.94	0.49
1:E:1153:ILE:HD11	1:E:1192:LEU:CD1	2.42	0.49
1:G:557:ARG:HG3	1:G:558:GLN:N	2.27	0.49
1:I:327:ILE:HD13	1:I:353:ILE:HG21	1.92	0.49
1:I:625:GLU:HG3	1:I:667:THR:HA	1.93	0.49
1:I:1212:THR:CG2	1:I:1213:PHE:H	2.12	0.49
1:K:607:SER:CB	1:K:907:ARG:HG2	2.42	0.49
1:K:639:LEU:CG	1:K:653:ILE:HG21	2.36	0.49
1:K:922:LEU:CD1	1:K:1241:LEU:CD2	2.87	0.49
1:K:1187:PRO:HG2	1:K:1229:PHE:CB	2.42	0.49
1:M:245:VAL:C	1:M:246:TRP:CD1	2.86	0.49
1:M:332:ARG:CG	1:M:332:ARG:NH1	2.73	0.49
1:M:389:LEU:HD21	1:M:395:VAL:CG1	2.41	0.49
1:M:677:VAL:HG13	1:M:701:GLN:HG2	1.94	0.49
1:M:1213:PHE:O	1:M:1214:TYR:CB	2.49	0.49
2:N:18:HIS:NE2	5:N:201:HEM:CHD	2.72	0.49
1:A:125:VAL:O	1:A:125:VAL:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:245:VAL:C	1:A:246:TRP:CD1	2.86	0.49
1:A:340:TYR:OH	1:A:352:ARG:HD2	2.12	0.49
1:A:391:LYS:HA	1:A:442:VAL:HG21	1.94	0.49
1:A:1181:THR:CG2	1:A:1221:LYS:HA	2.40	0.49
1:C:389:LEU:HD21	1:C:395:VAL:CG1	2.42	0.49
1:C:544:PHE:HD1	1:C:576:VAL:CG1	2.16	0.49
1:C:1151:ILE:H	1:C:1167:PRO:CD	2.19	0.49
1:E:557:ARG:HG3	1:E:558:GLN:N	2.27	0.49
1:E:570:GLU:CG	1:E:571:PRO:HD2	2.42	0.49
1:E:572:GLU:OE1	1:E:572:GLU:HA	2.11	0.49
1:G:108:SER:HA	1:G:111:ARG:HD2	1.94	0.49
1:G:595:LEU:HD13	1:G:1244:LEU:HD13	1.93	0.49
1:G:607:SER:CB	1:G:907:ARG:HG2	2.42	0.49
1:G:667:THR:OG1	1:G:708:THR:O	2.29	0.49
1:G:903:ASP:O	1:G:904:GLN:CB	2.56	0.49
1:G:1153:ILE:HD11	1:G:1192:LEU:CD1	2.42	0.49
1:G:1178:GLY:O	1:G:1179:TRP:CB	2.60	0.49
1:I:572:GLU:OE1	1:I:572:GLU:HA	2.12	0.49
1:K:180:GLY:HA3	1:K:237:ARG:C	2.33	0.49
1:K:560:PHE:O	1:K:561:PRO:C	2.49	0.49
1:K:1031:ASN:HB3	1:K:1036:LYS:HB2	1.92	0.49
1:M:347:ASN:O	1:M:348:LYS:CB	2.59	0.49
1:M:657:GLU:HB3	1:M:680:LYS:HD2	1.92	0.49
1:M:1006:VAL:HA	1:M:1022:SER:HB2	1.94	0.49
1:M:1136:SER:HB2	1:M:1139:SER:HB3	1.94	0.49
1:M:1220:LEU:HD11	1:M:1236:ASP:OD2	2.12	0.49
1:A:557:ARG:HG3	1:A:558:GLN:N	2.27	0.49
1:A:1006:VAL:HA	1:A:1022:SER:HB2	1.94	0.49
1:C:359:TYR:CD1	1:C:359:TYR:C	2.85	0.49
1:C:781:ILE:HD11	1:C:826:ILE:HA	1.93	0.49
1:C:1168:LEU:HD11	1:C:1171:GLU:HG2	1.94	0.49
1:E:1225:VAL:HG12	1:E:1229:PHE:HA	1.94	0.49
1:G:146:GLU:HG2	1:I:111:ARG:NH1	2.19	0.49
1:G:391:LYS:HA	1:G:442:VAL:HG21	1.94	0.49
1:G:507:LEU:CD1	1:G:579:GLN:HG2	2.42	0.49
1:G:570:GLU:CG	1:G:571:PRO:HD2	2.42	0.49
1:G:1187:PRO:CG	1:G:1229:PHE:HB3	2.40	0.49
1:G:1228:ASP:O	1:G:1229:PHE:CB	2.59	0.49
1:I:391:LYS:HA	1:I:442:VAL:HG21	1.94	0.49
1:I:607:SER:CB	1:I:907:ARG:HG2	2.42	0.49
1:I:1016:LYS:HA	1:I:1032:TRP:NE1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1183:LEU:N	1:I:1183:LEU:CD1	2.73	0.49
1:K:244:ASP:O	1:K:245:VAL:CB	2.59	0.49
1:K:625:GLU:HG3	1:K:667:THR:HA	1.93	0.49
1:A:862:TYR:HD1	1:A:885:VAL:H	1.56	0.49
1:C:138:GLN:NE2	1:C:139:LYS:N	2.60	0.49
1:C:334:PHE:CB	1:C:337:ARG:CD	2.87	0.49
1:C:453:LEU:CD1	1:C:454:GLN:N	2.73	0.49
1:C:1016:LYS:HA	1:C:1032:TRP:NE1	2.28	0.49
1:E:548:LEU:O	1:E:551:ASN:N	2.45	0.49
1:E:853:HIS:O	1:E:869:THR:N	2.39	0.49
1:E:1247:LEU:CD1	1:E:1248:GLU:N	2.73	0.49
1:G:138:GLN:NE2	1:G:139:LYS:N	2.60	0.49
1:G:334:PHE:CB	1:G:337:ARG:CD	2.87	0.49
1:G:347:ASN:C	1:G:348:LYS:HG2	2.31	0.49
1:G:544:PHE:HD1	1:G:576:VAL:CG1	2.17	0.49
1:G:883:SER:HB2	1:G:902:ASP:CB	2.39	0.49
1:I:507:LEU:CD1	1:I:579:GLN:HG2	2.42	0.49
1:I:595:LEU:HG	1:I:1201:TRP:HH2	1.71	0.49
1:K:453:LEU:CD1	1:K:454:GLN:N	2.73	0.49
1:K:507:LEU:CD1	1:K:579:GLN:HG2	2.42	0.49
1:K:677:VAL:HG13	1:K:701:GLN:HG2	1.94	0.49
1:K:1016:LYS:HA	1:K:1032:TRP:NE1	2.28	0.49
1:K:1247:LEU:CD1	1:K:1248:GLU:N	2.73	0.49
1:M:180:GLY:HA3	1:M:237:ARG:C	2.33	0.49
1:M:923:LYS:CB	1:M:940:VAL:HG21	2.41	0.49
1:M:1181:THR:CG2	1:M:1221:LYS:HA	2.40	0.49
1:A:180:GLY:HA3	1:A:237:ARG:C	2.33	0.49
1:A:283:GLU:OE1	1:A:284:SER:O	2.31	0.49
1:A:505:PHE:CZ	1:A:540:VAL:CG1	2.90	0.49
1:A:1016:LYS:HA	1:A:1032:TRP:NE1	2.27	0.49
1:A:1220:LEU:CD1	1:A:1236:ASP:OD2	2.61	0.49
1:C:557:ARG:HG3	1:C:558:GLN:N	2.27	0.49
1:C:570:GLU:CG	1:C:571:PRO:HD2	2.42	0.49
1:C:1183:LEU:N	1:C:1183:LEU:CD1	2.73	0.49
1:C:1220:LEU:CD1	1:C:1236:ASP:OD2	2.61	0.49
1:C:1228:ASP:O	1:C:1229:PHE:HB2	2.12	0.49
1:E:333:ASP:OD1	1:E:333:ASP:N	2.44	0.49
1:E:507:LEU:CD1	1:E:579:GLN:HG2	2.42	0.49
1:E:1016:LYS:HA	1:E:1032:TRP:NE1	2.28	0.49
1:E:1136:SER:HB2	1:E:1139:SER:HB3	1.94	0.49
1:E:1168:LEU:HD11	1:E:1171:GLU:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1220:LEU:HD11	1:E:1236:ASP:OD2	2.12	0.49
1:G:1016:LYS:HA	1:G:1032:TRP:NE1	2.28	0.49
1:G:1168:LEU:HD11	1:G:1171:GLU:HG2	1.94	0.49
1:G:1232:TYR:OH	1:G:1234:THR:CB	2.59	0.49
1:I:140:LEU:O	1:I:143:LEU:HD22	2.13	0.49
1:I:1175:THR:HG1	1:I:1176:HIS:CE1	2.29	0.49
1:K:359:TYR:CD1	1:K:359:TYR:C	2.86	0.49
1:K:1006:VAL:HA	1:K:1022:SER:HB2	1.94	0.49
1:K:1220:LEU:HD11	1:K:1236:ASP:OD2	2.13	0.49
1:M:340:TYR:OH	1:M:352:ARG:HD2	2.12	0.49
1:M:391:LYS:HA	1:M:442:VAL:HG21	1.94	0.49
1:M:607:SER:CB	1:M:907:ARG:HG2	2.42	0.49
1:A:818:LYS:HD3	1:A:842:THR:HG23	1.95	0.49
1:A:1168:LEU:HD11	1:A:1171:GLU:HG2	1.94	0.49
1:C:327:ILE:CD1	1:C:353:ILE:HG21	2.43	0.49
1:C:922:LEU:CD1	1:C:1241:LEU:CD2	2.87	0.49
1:C:1176:HIS:HB2	1:C:1218:THR:CB	2.38	0.49
1:E:677:VAL:HG13	1:E:701:GLN:HG2	1.94	0.49
1:E:1220:LEU:CD1	1:E:1236:ASP:OD2	2.61	0.49
1:G:245:VAL:C	1:G:246:TRP:CD1	2.86	0.49
1:G:332:ARG:CG	1:G:332:ARG:NH1	2.73	0.49
1:G:340:TYR:OH	1:G:352:ARG:HD2	2.12	0.49
1:G:818:LYS:HD3	1:G:842:THR:HG23	1.95	0.49
1:I:138:GLN:NE2	1:I:139:LYS:N	2.60	0.49
1:I:531:HIS:N	1:I:531:HIS:ND1	2.60	0.49
1:I:744:ASN:HB3	1:I:763:ALA:HB3	1.93	0.49
1:I:879:ARG:CB	1:I:921:MET:SD	3.01	0.49
1:I:1178:GLY:O	1:I:1179:TRP:CB	2.60	0.49
1:K:340:TYR:OH	1:K:352:ARG:HD2	2.12	0.49
1:K:434:ARG:HG3	1:K:434:ARG:NH2	2.28	0.49
1:K:920:VAL:HG12	1:K:921:MET:N	2.24	0.49
1:K:1220:LEU:CD1	1:K:1236:ASP:OD2	2.61	0.49
1:M:283:GLU:OE1	1:M:284:SER:O	2.31	0.49
1:M:1228:ASP:O	1:M:1229:PHE:HB2	2.12	0.49
1:A:138:GLN:NE2	1:A:139:LYS:N	2.60	0.49
1:A:143:LEU:CD2	1:A:143:LEU:N	2.75	0.49
1:A:531:HIS:ND1	1:A:531:HIS:N	2.60	0.49
1:C:818:LYS:HD3	1:C:842:THR:HG23	1.95	0.49
1:E:389:LEU:HD21	1:E:395:VAL:CG1	2.42	0.49
1:E:607:SER:CB	1:E:907:ARG:HG2	2.42	0.49
1:E:818:LYS:HD3	1:E:842:THR:HG23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:845:TYR:OH	1:E:888:VAL:O	2.25	0.49
1:E:883:SER:HB2	1:E:902:ASP:CB	2.39	0.49
1:G:431:LYS:HZ3	1:I:336:ASN:CB	2.12	0.49
1:G:582:LEU:HD23	1:G:582:LEU:C	2.33	0.49
1:G:639:LEU:N	1:G:653:ILE:HG21	2.22	0.49
1:G:1136:SER:HB2	1:G:1139:SER:HB3	1.94	0.49
2:H:14:CYS:CB	5:H:201:HEM:HAB	2.43	0.49
1:I:570:GLU:CG	1:I:571:PRO:HD2	2.42	0.49
1:I:818:LYS:HD3	1:I:842:THR:HG23	1.95	0.49
1:K:140:LEU:O	1:K:143:LEU:HD22	2.13	0.49
1:K:317:CYS:SG	1:K:323:VAL:CG1	2.98	0.49
1:K:582:LEU:HD23	1:K:582:LEU:C	2.33	0.49
1:K:879:ARG:CB	1:K:921:MET:SD	3.01	0.49
1:M:138:GLN:NE2	1:M:139:LYS:N	2.60	0.49
1:M:140:LEU:O	1:M:143:LEU:HD22	2.13	0.49
1:M:1016:LYS:HA	1:M:1032:TRP:NE1	2.28	0.49
1:M:1220:LEU:CD1	1:M:1236:ASP:OD2	2.61	0.49
2:N:14:CYS:CB	5:N:201:HEM:HAB	2.43	0.49
1:A:582:LEU:HD23	1:A:582:LEU:C	2.33	0.49
1:A:781:ILE:HD11	1:A:826:ILE:HA	1.93	0.49
1:A:1220:LEU:HD11	1:A:1236:ASP:OD2	2.12	0.49
1:C:143:LEU:CD2	1:C:143:LEU:N	2.75	0.49
1:C:391:LYS:HA	1:C:442:VAL:HG21	1.94	0.49
1:C:457:HIS:NE2	1:C:493:SER:CB	2.72	0.49
1:C:1006:VAL:HA	1:C:1022:SER:HB2	1.94	0.49
1:E:245:VAL:C	1:E:246:TRP:CD1	2.86	0.49
1:E:327:ILE:CD1	1:E:353:ILE:HG21	2.43	0.49
1:E:434:ARG:HG3	1:E:434:ARG:NH2	2.28	0.49
1:E:1213:PHE:HE2	1:E:1215:THR:CA	2.26	0.49
1:G:523:ILE:HG12	1:G:548:LEU:HD13	1.94	0.49
1:G:531:HIS:ND1	1:G:531:HIS:N	2.61	0.49
1:G:879:ARG:CB	1:G:921:MET:SD	3.01	0.49
1:I:677:VAL:HG13	1:I:701:GLN:HG2	1.94	0.49
1:I:1168:LEU:HD11	1:I:1171:GLU:HG2	1.94	0.49
1:I:1213:PHE:HE2	1:I:1215:THR:CA	2.26	0.49
1:I:1236:ASP:OD1	1:I:1236:ASP:N	2.43	0.49
1:K:245:VAL:C	1:K:246:TRP:CD1	2.86	0.49
1:K:572:GLU:OE1	1:K:572:GLU:HA	2.12	0.49
1:K:1200:LYS:CD	1:K:1202:TRP:CE2	2.81	0.49
1:M:327:ILE:CD1	1:M:353:ILE:HG21	2.43	0.49
1:M:394:LYS:CB	1:M:434:ARG:CB	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:434:ARG:HG3	1:M:434:ARG:NH2	2.28	0.49
1:M:505:PHE:HZ	1:M:540:VAL:CG1	2.17	0.49
1:M:879:ARG:CB	1:M:921:MET:SD	3.01	0.49
1:M:1176:HIS:HB3	1:M:1218:THR:CG2	2.40	0.49
1:A:231:MET:SD	1:A:258:CYS:SG	2.97	0.49
1:A:327:ILE:CD1	1:A:353:ILE:HG21	2.43	0.49
1:E:196:LEU:HD11	1:E:200:GLN:HE21	1.78	0.49
1:E:340:TYR:OH	1:E:352:ARG:HD2	2.12	0.49
1:E:505:PHE:CZ	1:E:540:VAL:CG1	2.90	0.49
1:E:1152:ARG:NE	1:E:1164:LEU:HD23	2.28	0.49
1:G:327:ILE:CD1	1:G:353:ILE:HG21	2.43	0.49
1:G:434:ARG:HG3	1:G:434:ARG:NH2	2.28	0.49
1:G:572:GLU:OE1	1:G:572:GLU:HA	2.11	0.49
1:G:677:VAL:HG13	1:G:701:GLN:HG2	1.94	0.49
1:G:1225:VAL:HG12	1:G:1229:PHE:HA	1.94	0.49
1:G:1233:VAL:CB	1:G:1243:ILE:HA	2.43	0.49
1:I:434:ARG:HG3	1:I:434:ARG:NH2	2.28	0.49
1:K:138:GLN:NE2	1:K:139:LYS:N	2.60	0.49
1:K:231:MET:SD	1:K:258:CYS:SG	2.97	0.49
1:K:1178:GLY:O	1:K:1179:TRP:CB	2.60	0.49
1:M:625:GLU:HG3	1:M:667:THR:HA	1.93	0.49
1:M:818:LYS:HD3	1:M:842:THR:HG23	1.95	0.49
1:M:1236:ASP:OD1	1:M:1236:ASP:N	2.43	0.49
1:A:140:LEU:O	1:A:143:LEU:HD22	2.13	0.48
1:A:171:HIS:NE2	1:A:175:GLU:CB	2.76	0.48
1:A:179:PRO:CG	1:A:237:ARG:HH11	2.17	0.48
1:A:677:VAL:HG13	1:A:701:GLN:HG2	1.94	0.48
1:A:864:VAL:HG22	1:A:885:VAL:HG11	1.95	0.48
1:A:999:ARG:CD	1:A:1030:TRP:CE2	2.96	0.48
1:A:1152:ARG:NE	1:A:1164:LEU:HD23	2.28	0.48
1:C:140:LEU:O	1:C:143:LEU:HD22	2.13	0.48
1:C:607:SER:CB	1:C:907:ARG:HG2	2.42	0.48
1:C:639:LEU:N	1:C:653:ILE:HG21	2.22	0.48
1:C:1044:GLN:HG2	1:C:1068:LYS:HZ2	1.78	0.48
1:C:1136:SER:HB2	1:C:1139:SER:HB3	1.94	0.48
1:C:1220:LEU:HD11	1:C:1236:ASP:OD2	2.12	0.48
1:E:391:LYS:HA	1:E:442:VAL:HG21	1.94	0.48
1:E:1176:HIS:O	1:E:1197:GLY:CA	2.59	0.48
1:G:196:LEU:HD11	1:G:200:GLN:HE21	1.78	0.48
1:I:171:HIS:NE2	1:I:175:GLU:CB	2.76	0.48
1:I:1136:SER:HB2	1:I:1139:SER:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:196:LEU:HD11	1:K:200:GLN:HE21	1.78	0.48
1:K:523:ILE:HG12	1:K:548:LEU:HD13	1.94	0.48
1:K:999:ARG:CD	1:K:1030:TRP:CE2	2.96	0.48
1:M:334:PHE:CB	1:M:337:ARG:CD	2.87	0.48
1:M:529:TYR:HA	1:M:532:ILE:HG21	1.93	0.48
1:M:667:THR:OG1	1:M:708:THR:O	2.29	0.48
1:M:864:VAL:HG22	1:M:885:VAL:HG11	1.95	0.48
1:M:1225:VAL:HG12	1:M:1229:PHE:HA	1.94	0.48
1:M:1233:VAL:CB	1:M:1243:ILE:HA	2.43	0.48
1:A:507:LEU:CD1	1:A:579:GLN:HG2	2.42	0.48
1:A:1176:HIS:O	1:A:1197:GLY:CA	2.59	0.48
1:C:246:TRP:N	1:C:246:TRP:CD1	2.81	0.48
1:C:494:ALA:HB1	1:C:496:MET:HG2	1.95	0.48
1:C:572:GLU:OE1	1:C:572:GLU:HA	2.11	0.48
1:C:1233:VAL:CB	1:C:1243:ILE:HA	2.43	0.48
1:E:246:TRP:CD1	1:E:246:TRP:N	2.81	0.48
1:E:453:LEU:CD1	1:E:454:GLN:N	2.73	0.48
1:E:1187:PRO:CG	1:E:1229:PHE:HB3	2.40	0.48
1:G:342:LEU:O	1:G:346:GLN:HG2	2.13	0.48
1:G:1152:ARG:NE	1:G:1164:LEU:HD23	2.28	0.48
1:I:494:ALA:HB1	1:I:496:MET:HG2	1.95	0.48
1:I:561:PRO:CB	1:I:1214:TYR:CD2	2.86	0.48
1:K:143:LEU:CD2	1:K:143:LEU:N	2.75	0.48
1:K:579:GLN:NE2	1:K:583:GLN:HB2	2.28	0.48
1:K:1152:ARG:NE	1:K:1164:LEU:HD23	2.28	0.48
1:K:1233:VAL:CB	1:K:1243:ILE:HA	2.43	0.48
1:M:143:LEU:CD2	1:M:143:LEU:N	2.75	0.48
1:M:579:GLN:NE2	1:M:583:GLN:HB2	2.28	0.48
1:M:923:LYS:CG	1:M:940:VAL:HG23	2.42	0.48
1:M:999:ARG:CD	1:M:1030:TRP:CE2	2.96	0.48
1:A:196:LEU:HD11	1:A:200:GLN:HE21	1.78	0.48
1:A:494:ALA:HB1	1:A:496:MET:HG2	1.95	0.48
1:A:1067:VAL:N	1:A:1081:PHE:O	2.40	0.48
1:C:196:LEU:HD11	1:C:200:GLN:HE21	1.78	0.48
1:C:317:CYS:SG	1:C:323:VAL:CG1	2.98	0.48
1:C:677:VAL:HG13	1:C:701:GLN:HG2	1.94	0.48
1:C:1176:HIS:O	1:C:1197:GLY:CA	2.59	0.48
1:C:1213:PHE:HE2	1:C:1215:THR:CA	2.26	0.48
1:E:171:HIS:NE2	1:E:175:GLU:CB	2.76	0.48
1:E:457:HIS:NE2	1:E:493:SER:CB	2.72	0.48
1:E:494:ALA:HB1	1:E:496:MET:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:523:ILE:HG12	1:E:548:LEU:HD13	1.94	0.48
1:G:489:TYR:CD1	1:G:489:TYR:C	2.85	0.48
1:G:595:LEU:HD22	1:G:1244:LEU:HD12	1.78	0.48
1:G:1220:LEU:CD1	1:G:1236:ASP:OD2	2.61	0.48
1:I:1217:GLY:C	1:I:1218:THR:CG2	2.76	0.48
1:K:246:TRP:CD1	1:K:246:TRP:N	2.81	0.48
1:K:347:ASN:O	1:K:348:LYS:CB	2.59	0.48
1:K:391:LYS:HA	1:K:442:VAL:HG21	1.94	0.48
1:K:570:GLU:OE2	1:K:571:PRO:HD2	2.14	0.48
1:K:570:GLU:CG	1:K:571:PRO:HD2	2.42	0.48
1:K:595:LEU:HG	1:K:1201:TRP:HH2	1.71	0.48
1:K:864:VAL:HG22	1:K:885:VAL:HG11	1.95	0.48
1:K:879:ARG:CB	1:K:921:MET:CE	2.73	0.48
1:K:1176:HIS:O	1:K:1197:GLY:CA	2.59	0.48
2:L:17:CYS:HG	5:L:201:HEM:CAC	2.20	0.48
1:M:779:LYS:NZ	1:M:827:HIS:O	2.43	0.48
1:M:862:TYR:HD1	1:M:885:VAL:H	1.56	0.48
1:A:359:TYR:CD1	1:A:359:TYR:C	2.86	0.48
1:A:570:GLU:CG	1:A:571:PRO:HD2	2.42	0.48
1:A:597:TRP:CZ2	1:A:603:ILE:CG1	2.94	0.48
1:C:245:VAL:C	1:C:246:TRP:CD1	2.86	0.48
1:C:283:GLU:OE1	1:C:284:SER:O	2.31	0.48
1:C:473:LEU:HD22	1:C:484:TYR:CE1	2.43	0.48
1:C:864:VAL:HG22	1:C:885:VAL:HG11	1.95	0.48
1:C:1208:GLU:HG3	1:C:1211:GLN:CG	2.44	0.48
1:E:342:LEU:O	1:E:346:GLN:HG2	2.13	0.48
1:G:246:TRP:CD1	1:G:246:TRP:N	2.81	0.48
1:G:1175:THR:HG1	1:G:1176:HIS:CE1	2.30	0.48
1:I:523:ILE:HG12	1:I:548:LEU:HD13	1.94	0.48
1:I:579:GLN:NE2	1:I:583:GLN:HB2	2.28	0.48
1:I:1006:VAL:HA	1:I:1022:SER:HB2	1.94	0.48
1:I:1208:GLU:HG3	1:I:1211:GLN:CG	2.44	0.48
1:I:1220:LEU:HD11	1:I:1236:ASP:OD2	2.12	0.48
1:K:283:GLU:OE1	1:K:284:SER:O	2.31	0.48
1:K:531:HIS:ND1	1:K:531:HIS:N	2.60	0.48
1:M:359:TYR:CD1	1:M:359:TYR:C	2.85	0.48
1:M:494:ALA:HB1	1:M:496:MET:HG2	1.95	0.48
1:M:582:LEU:HD23	1:M:582:LEU:C	2.33	0.48
1:A:1136:SER:HA	1:A:1185:PHE:HD2	1.78	0.48
1:A:1175:THR:HG1	1:A:1176:HIS:CE1	2.31	0.48
1:A:1228:ASP:O	1:A:1229:PHE:HB2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:340:TYR:OH	1:C:352:ARG:HD2	2.12	0.48
1:C:529:TYR:HA	1:C:532:ILE:HG21	1.93	0.48
1:C:845:TYR:OH	1:C:888:VAL:O	2.25	0.48
1:E:283:GLU:OE1	1:E:284:SER:O	2.31	0.48
1:E:595:LEU:CD2	1:E:1244:LEU:CD1	2.48	0.48
1:E:923:LYS:CB	1:E:940:VAL:HG21	2.41	0.48
1:E:1233:VAL:CB	1:E:1243:ILE:HA	2.43	0.48
1:G:283:GLU:OE1	1:G:284:SER:O	2.31	0.48
1:G:1006:VAL:HA	1:G:1022:SER:HB2	1.94	0.48
1:I:327:ILE:CD1	1:I:353:ILE:HG21	2.43	0.48
1:I:489:TYR:C	1:I:489:TYR:CD1	2.85	0.48
1:I:864:VAL:HG22	1:I:885:VAL:HG11	1.95	0.48
1:I:1187:PRO:HG2	1:I:1229:PHE:CB	2.42	0.48
1:I:1220:LEU:CD1	1:I:1236:ASP:OD2	2.61	0.48
1:K:342:LEU:O	1:K:346:GLN:HG2	2.13	0.48
1:K:507:LEU:HA	1:K:510:ILE:HD12	1.96	0.48
1:K:548:LEU:O	1:K:551:ASN:N	2.45	0.48
1:K:1213:PHE:HE2	1:K:1215:THR:CA	2.26	0.48
1:M:229:ILE:CG2	1:M:233:ARG:HD3	2.31	0.48
1:M:523:ILE:HG12	1:M:548:LEU:HD13	1.94	0.48
1:M:567:GLY:O	1:M:569:CYS:N	2.41	0.48
1:A:489:TYR:HD1	1:A:489:TYR:C	2.16	0.48
1:A:639:LEU:N	1:A:653:ILE:HG21	2.22	0.48
1:A:1233:VAL:CB	1:A:1243:ILE:HA	2.43	0.48
1:C:639:LEU:CG	1:C:653:ILE:HD12	2.43	0.48
1:C:667:THR:OG1	1:C:708:THR:O	2.29	0.48
1:C:879:ARG:CB	1:C:921:MET:SD	3.01	0.48
1:C:1187:PRO:CG	1:C:1229:PHE:HB3	2.40	0.48
1:C:1200:LYS:CD	1:C:1202:TRP:CE2	2.81	0.48
1:E:138:GLN:NE2	1:E:139:LYS:N	2.60	0.48
1:E:143:LEU:CD2	1:E:143:LEU:N	2.75	0.48
1:E:747:ASN:ND2	1:E:801:VAL:O	2.38	0.48
1:E:1232:TYR:OH	1:E:1234:THR:CB	2.59	0.48
1:G:140:LEU:O	1:G:143:LEU:HD22	2.13	0.48
1:G:143:LEU:CD2	1:G:143:LEU:N	2.75	0.48
1:G:374:MET:HA	1:G:374:MET:HE2	1.91	0.48
1:I:143:LEU:CD2	1:I:143:LEU:N	2.75	0.48
1:I:196:LEU:HD11	1:I:200:GLN:HE21	1.78	0.48
1:I:237:ARG:NH1	1:I:237:ARG:HG2	2.29	0.48
1:I:920:VAL:HG12	1:I:921:MET:N	2.25	0.48
1:K:147:PRO:HG3	1:M:121:GLN:HE22	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:374:MET:N	1:K:374:MET:SD	2.87	0.48
1:K:614:HIS:HE1	1:K:640:GLN:CG	1.83	0.48
1:K:818:LYS:HD3	1:K:842:THR:HG23	1.95	0.48
1:K:1168:LEU:HD11	1:K:1171:GLU:HG2	1.94	0.48
1:M:171:HIS:NE2	1:M:175:GLU:CB	2.76	0.48
1:M:461:ILE:HD11	1:M:491:MET:CG	2.44	0.48
1:M:507:LEU:HA	1:M:510:ILE:HD12	1.96	0.48
1:M:531:HIS:ND1	1:M:531:HIS:N	2.60	0.48
1:M:1220:LEU:HD23	1:M:1234:THR:CG2	2.43	0.48
1:A:147:PRO:HG3	1:C:121:GLN:HE22	1.79	0.48
1:A:332:ARG:CG	1:A:332:ARG:NH1	2.73	0.48
1:A:359:TYR:HE1	1:A:361:TYR:CD1	2.32	0.48
1:A:553:HIS:CB	1:A:610:VAL:CG1	2.89	0.48
1:C:145:GLY:O	1:C:146:GLU:HB2	2.14	0.48
1:C:374:MET:N	1:C:374:MET:SD	2.87	0.48
1:C:570:GLU:OE2	1:C:571:PRO:HD2	2.14	0.48
1:E:407:GLU:H	1:E:407:GLU:HG2	1.47	0.48
1:E:461:ILE:HD11	1:E:491:MET:CG	2.44	0.48
1:E:570:GLU:OE2	1:E:571:PRO:HD2	2.14	0.48
1:E:582:LEU:HD23	1:E:582:LEU:C	2.33	0.48
1:E:879:ARG:CB	1:E:921:MET:SD	3.01	0.48
2:F:14:CYS:CB	5:F:201:HEM:HAB	2.43	0.48
1:G:147:PRO:HG3	1:I:121:GLN:HE22	1.79	0.48
1:G:171:HIS:NE2	1:G:175:GLU:CB	2.76	0.48
1:G:579:GLN:NE2	1:G:583:GLN:HB2	2.28	0.48
1:G:864:VAL:HG22	1:G:885:VAL:HG11	1.95	0.48
1:I:1151:ILE:H	1:I:1167:PRO:CD	2.19	0.48
2:J:14:CYS:CB	5:J:201:HEM:HAB	2.43	0.48
1:K:252:LYS:CE	1:K:252:LYS:CA	2.92	0.48
1:K:319:GLY:O	1:K:321:PRO:HD3	2.14	0.48
1:K:741:GLY:HA3	1:K:770:TRP:HZ2	1.78	0.48
1:K:1225:VAL:HG12	1:K:1229:PHE:HA	1.94	0.48
2:L:14:CYS:CB	5:L:201:HEM:HAB	2.43	0.48
1:M:342:LEU:O	1:M:346:GLN:HG2	2.13	0.48
1:M:374:MET:N	1:M:374:MET:SD	2.87	0.48
1:M:553:HIS:CB	1:M:610:VAL:CG1	2.89	0.48
1:M:570:GLU:CG	1:M:571:PRO:HD2	2.42	0.48
1:A:145:GLY:O	1:A:146:GLU:HB2	2.14	0.48
1:A:260:ILE:O	1:A:260:ILE:HG13	2.05	0.48
1:A:319:GLY:O	1:A:321:PRO:HD3	2.14	0.48
1:A:374:MET:SD	1:A:374:MET:N	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:LEU:HA	1:A:510:ILE:HD12	1.96	0.48
1:A:741:GLY:HA3	1:A:770:TRP:HZ2	1.78	0.48
1:A:879:ARG:CB	1:A:921:MET:SD	3.01	0.48
1:C:171:HIS:NE2	1:C:175:GLU:CB	2.76	0.48
1:C:319:GLY:O	1:C:321:PRO:HD3	2.14	0.48
1:C:579:GLN:NE2	1:C:583:GLN:HB2	2.28	0.48
1:E:579:GLN:NE2	1:E:583:GLN:HB2	2.28	0.48
1:E:718:THR:OG1	1:E:726:LYS:HB2	2.14	0.48
1:E:1183:LEU:N	1:E:1183:LEU:CD1	2.73	0.48
1:E:1208:GLU:HG3	1:E:1211:GLN:CG	2.44	0.48
1:G:862:TYR:CZ	1:G:881:HIS:CA	2.97	0.48
1:G:920:VAL:HG12	1:G:921:MET:N	2.25	0.48
1:G:923:LYS:CG	1:G:940:VAL:HG23	2.42	0.48
1:G:1208:GLU:OE1	1:G:1208:GLU:N	2.47	0.48
1:I:226:ARG:O	1:I:230:LEU:HG	2.14	0.48
1:I:342:LEU:O	1:I:346:GLN:HG2	2.13	0.48
1:I:461:ILE:HD11	1:I:491:MET:CG	2.44	0.48
1:I:570:GLU:OE2	1:I:571:PRO:HD2	2.14	0.48
1:K:137:GLN:NE2	1:K:173:LEU:HB3	2.23	0.48
1:K:237:ARG:NH1	1:K:237:ARG:HG2	2.29	0.48
1:K:394:LYS:CB	1:K:434:ARG:CB	2.80	0.48
1:M:319:GLY:O	1:M:321:PRO:HD3	2.14	0.48
1:M:489:TYR:HD1	1:M:489:TYR:C	2.16	0.48
1:A:317:CYS:SG	1:A:323:VAL:CG1	2.98	0.48
1:A:610:VAL:HG22	1:A:907:ARG:CG	2.43	0.48
1:A:1136:SER:HB2	1:A:1139:SER:HB3	1.94	0.48
1:A:1208:GLU:N	1:A:1208:GLU:OE1	2.47	0.48
1:C:434:ARG:HG3	1:C:434:ARG:NH2	2.28	0.48
1:C:505:PHE:CZ	1:C:540:VAL:CG1	2.90	0.48
1:C:883:SER:HB2	1:C:902:ASP:CB	2.39	0.48
1:C:1220:LEU:HD23	1:C:1234:THR:CG2	2.43	0.48
1:E:140:LEU:O	1:E:143:LEU:HD22	2.13	0.48
1:E:226:ARG:O	1:E:230:LEU:HG	2.14	0.48
1:E:319:GLY:O	1:E:321:PRO:HD3	2.14	0.48
1:E:855:ALA:HB2	1:E:869:THR:HG23	1.96	0.48
1:E:862:TYR:CE2	1:E:881:HIS:CB	2.92	0.48
1:E:1208:GLU:OE1	1:E:1208:GLU:N	2.47	0.48
1:E:1220:LEU:HD23	1:E:1234:THR:CG2	2.43	0.48
1:G:662:CYS:SG	1:G:704:CYS:HA	2.54	0.48
1:G:1220:LEU:HD23	1:G:1234:THR:CG2	2.43	0.48
1:G:1220:LEU:HD11	1:G:1236:ASP:OD2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:507:LEU:HA	1:I:510:ILE:HD12	1.96	0.48
1:I:595:LEU:HD13	1:I:1244:LEU:HD13	1.93	0.48
1:I:597:TRP:CH2	1:I:603:ILE:HG12	2.43	0.48
1:I:999:ARG:CD	1:I:1030:TRP:CE2	2.96	0.48
1:I:1152:ARG:NE	1:I:1164:LEU:HD23	2.29	0.48
1:I:1225:VAL:HG12	1:I:1229:PHE:HA	1.94	0.48
1:M:591:GLY:O	1:M:592:MET:CB	2.56	0.48
1:M:741:GLY:HA3	1:M:770:TRP:HZ2	1.78	0.48
1:M:1208:GLU:HG3	1:M:1211:GLN:CG	2.44	0.48
1:A:237:ARG:NH1	1:A:237:ARG:HG2	2.29	0.48
1:A:252:LYS:CE	1:A:252:LYS:CA	2.92	0.48
2:B:14:CYS:CB	5:B:201:HEM:HAB	2.43	0.48
1:C:489:TYR:HD1	1:C:489:TYR:C	2.16	0.48
1:C:662:CYS:SG	1:C:704:CYS:HA	2.54	0.48
1:C:999:ARG:CD	1:C:1030:TRP:CE2	2.96	0.48
1:E:128:THR:HG22	1:E:166:GLU:OE1	2.14	0.48
1:E:591:GLY:O	1:E:592:MET:CB	2.56	0.48
1:E:1167:PRO:CB	1:E:1202:TRP:CE2	2.93	0.48
1:G:226:ARG:O	1:G:230:LEU:HG	2.14	0.48
1:G:298:PHE:CZ	1:G:325:SER:HA	2.42	0.48
1:G:879:ARG:CB	1:G:921:MET:CE	2.73	0.48
1:G:1181:THR:CG2	1:G:1221:LYS:HA	2.40	0.48
1:G:1183:LEU:N	1:G:1183:LEU:CD1	2.73	0.48
1:G:1213:PHE:HE2	1:G:1215:THR:CA	2.26	0.48
1:I:252:LYS:CE	1:I:252:LYS:CA	2.92	0.48
1:I:374:MET:SD	1:I:374:MET:N	2.87	0.48
1:I:582:LEU:HD23	1:I:582:LEU:C	2.33	0.48
1:I:1176:HIS:O	1:I:1197:GLY:CA	2.59	0.48
1:I:1233:VAL:CB	1:I:1243:ILE:HA	2.43	0.48
1:K:226:ARG:O	1:K:230:LEU:HG	2.14	0.48
1:M:610:VAL:HG22	1:M:907:ARG:CG	2.43	0.48
1:M:853:HIS:O	1:M:869:THR:N	2.38	0.48
1:M:1152:ARG:NE	1:M:1164:LEU:HD23	2.28	0.48
1:C:128:THR:HG22	1:C:166:GLU:OE1	2.14	0.47
1:C:226:ARG:O	1:C:230:LEU:HG	2.14	0.47
1:C:548:LEU:O	1:C:551:ASN:N	2.45	0.47
1:C:855:ALA:HB2	1:C:869:THR:HG23	1.96	0.47
1:E:489:TYR:CD1	1:E:489:TYR:C	2.85	0.47
1:E:610:VAL:HG22	1:E:907:ARG:CG	2.43	0.47
1:E:1006:VAL:HA	1:E:1022:SER:HB2	1.94	0.47
1:G:237:ARG:NH1	1:G:237:ARG:HG2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:319:GLY:O	1:G:321:PRO:HD3	2.14	0.47
1:G:862:TYR:HD1	1:G:885:VAL:CB	2.22	0.47
1:I:741:GLY:HA3	1:I:770:TRP:HZ2	1.78	0.47
1:I:1176:HIS:HB2	1:I:1218:THR:CB	2.38	0.47
1:K:595:LEU:CD2	1:K:1244:LEU:CD1	2.48	0.47
1:K:662:CYS:SG	1:K:704:CYS:HA	2.54	0.47
1:K:1220:LEU:HD23	1:K:1234:THR:CG2	2.43	0.47
1:M:145:GLY:O	1:M:146:GLU:HB2	2.14	0.47
1:M:252:LYS:CE	1:M:252:LYS:CA	2.92	0.47
1:M:543:ASN:CB	1:M:576:VAL:CG2	2.92	0.47
1:M:1176:HIS:O	1:M:1197:GLY:CA	2.59	0.47
1:M:1208:GLU:OE1	1:M:1208:GLU:N	2.47	0.47
1:M:1213:PHE:HE2	1:M:1215:THR:CA	2.26	0.47
1:A:342:LEU:O	1:A:346:GLN:HG2	2.13	0.47
1:A:434:ARG:HG3	1:A:434:ARG:NH2	2.28	0.47
1:A:570:GLU:OE2	1:A:571:PRO:HD2	2.14	0.47
1:A:579:GLN:NE2	1:A:583:GLN:HB2	2.28	0.47
1:A:591:GLY:O	1:A:592:MET:CB	2.56	0.47
1:A:662:CYS:SG	1:A:704:CYS:HA	2.54	0.47
1:A:923:LYS:CB	1:A:940:VAL:HG21	2.41	0.47
1:A:1213:PHE:HE2	1:A:1215:THR:CA	2.26	0.47
1:C:342:LEU:O	1:C:346:GLN:HG2	2.13	0.47
1:C:494:ALA:O	1:C:495:LYS:CB	2.62	0.47
1:C:610:VAL:HG22	1:C:907:ARG:CG	2.43	0.47
1:C:1094:SER:HA	1:C:1135:PHE:CB	2.44	0.47
1:C:1175:THR:HG1	1:C:1176:HIS:CE1	2.31	0.47
1:C:1208:GLU:OE1	1:C:1208:GLU:N	2.47	0.47
1:E:145:GLY:O	1:E:146:GLU:HB2	2.14	0.47
1:E:999:ARG:CD	1:E:1030:TRP:CE2	2.96	0.47
1:E:1094:SER:HA	1:E:1135:PHE:CB	2.44	0.47
1:G:570:GLU:OE2	1:G:571:PRO:HD2	2.14	0.47
1:G:999:ARG:CD	1:G:1030:TRP:CE2	2.96	0.47
1:G:1176:HIS:O	1:G:1197:GLY:CA	2.59	0.47
1:G:1208:GLU:HG3	1:G:1211:GLN:CG	2.44	0.47
1:K:330:LEU:HD12	1:K:330:LEU:HA	1.74	0.47
1:K:494:ALA:HB1	1:K:496:MET:HG2	1.95	0.47
1:K:700:GLU:HB3	1:K:721:SER:HB2	1.96	0.47
1:K:1136:SER:HA	1:K:1185:PHE:HD2	1.78	0.47
1:K:1236:ASP:OD1	1:K:1236:ASP:N	2.43	0.47
1:M:226:ARG:O	1:M:230:LEU:HG	2.14	0.47
1:M:845:TYR:OH	1:M:888:VAL:O	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1187:PRO:HG2	1:M:1229:PHE:CB	2.42	0.47
1:M:1217:GLY:C	1:M:1218:THR:CG2	2.76	0.47
1:A:543:ASN:CB	1:A:576:VAL:CG2	2.92	0.47
1:C:507:LEU:HA	1:C:510:ILE:HD12	1.96	0.47
1:C:582:LEU:HD23	1:C:582:LEU:C	2.33	0.47
1:E:237:ARG:NH1	1:E:237:ARG:HG2	2.29	0.47
1:E:334:PHE:CB	1:E:337:ARG:CD	2.87	0.47
1:E:374:MET:N	1:E:374:MET:SD	2.87	0.47
1:E:662:CYS:SG	1:E:704:CYS:HA	2.54	0.47
1:G:160:LYS:CB	1:G:160:LYS:HZ2	2.26	0.47
1:G:453:LEU:CD1	1:G:454:GLN:N	2.73	0.47
1:G:603:ILE:HD12	1:G:604:THR:HG1	1.79	0.47
1:G:762:SER:OG	1:G:764:ASP:OD1	2.25	0.47
1:G:855:ALA:HB2	1:G:869:THR:HG23	1.96	0.47
1:G:1135:PHE:CD1	1:G:1142:LEU:HD13	2.50	0.47
1:I:283:GLU:OE1	1:I:284:SER:O	2.31	0.47
1:I:319:GLY:O	1:I:321:PRO:HD3	2.14	0.47
1:I:568:LEU:H	1:I:568:LEU:HG	1.50	0.47
1:I:639:LEU:CG	1:I:653:ILE:HG21	2.36	0.47
1:I:855:ALA:HB2	1:I:869:THR:HG23	1.96	0.47
1:I:1135:PHE:CD1	1:I:1142:LEU:HD13	2.50	0.47
1:I:1176:HIS:HB3	1:I:1218:THR:CG2	2.40	0.47
1:I:1208:GLU:N	1:I:1208:GLU:OE1	2.47	0.47
1:K:1135:PHE:CD1	1:K:1142:LEU:HD13	2.50	0.47
1:M:1094:SER:HA	1:M:1135:PHE:CB	2.44	0.47
1:C:237:ARG:NH1	1:C:237:ARG:HG2	2.29	0.47
1:C:260:ILE:O	1:C:260:ILE:HG13	2.05	0.47
1:C:700:GLU:HB3	1:C:721:SER:HB2	1.96	0.47
1:C:1136:SER:HA	1:C:1185:PHE:HD2	1.78	0.47
1:C:1152:ARG:NE	1:C:1164:LEU:HD23	2.28	0.47
1:E:359:TYR:HE1	1:E:361:TYR:CD1	2.32	0.47
1:E:384:THR:HB	1:E:449:ASN:OD1	2.15	0.47
1:E:657:GLU:HB2	1:E:680:LYS:HD2	1.96	0.47
1:E:700:GLU:HB3	1:E:721:SER:HB2	1.96	0.47
1:E:1135:PHE:CD1	1:E:1142:LEU:HD13	2.50	0.47
1:E:1181:THR:HG21	1:E:1221:LYS:CA	2.39	0.47
1:G:330:LEU:HD22	1:G:353:ILE:HG22	1.97	0.47
1:G:845:TYR:OH	1:G:888:VAL:O	2.25	0.47
1:I:379:ILE:CD1	1:I:417:GLU:OE1	2.63	0.47
1:I:700:GLU:HB3	1:I:721:SER:HB2	1.96	0.47
1:K:171:HIS:NE2	1:K:175:GLU:CB	2.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:543:ASN:CB	1:K:576:VAL:CG2	2.92	0.47
1:K:561:PRO:CB	1:K:1214:TYR:CD2	2.87	0.47
1:K:718:THR:OG1	1:K:726:LYS:HB2	2.14	0.47
1:K:1087:THR:CG2	2:L:39:LYS:CD	2.75	0.47
1:M:196:LEU:HD11	1:M:200:GLN:HE21	1.78	0.47
1:M:639:LEU:CG	1:M:653:ILE:HD12	2.43	0.47
1:M:718:THR:OG1	1:M:726:LYS:HB2	2.14	0.47
1:M:742:HIS:CE1	1:M:768:LYS:HD2	2.50	0.47
1:M:1087:THR:CG2	2:N:39:LYS:CD	2.75	0.47
1:A:1220:LEU:HD23	1:A:1234:THR:CG2	2.43	0.47
1:C:568:LEU:H	1:C:568:LEU:HG	1.51	0.47
1:E:494:ALA:O	1:E:495:LYS:CB	2.62	0.47
1:E:531:HIS:ND1	1:E:531:HIS:N	2.61	0.47
1:G:128:THR:HG22	1:G:166:GLU:OE1	2.14	0.47
1:G:208:GLN:H	1:G:208:GLN:HG3	1.48	0.47
1:G:494:ALA:HB1	1:G:496:MET:HG2	1.95	0.47
1:G:1022:SER:OG	1:G:1023:ASP:N	2.48	0.47
1:I:884:TRP:O	1:I:885:VAL:C	2.53	0.47
1:K:327:ILE:CD1	1:K:353:ILE:HG21	2.43	0.47
1:K:379:ILE:CD1	1:K:417:GLU:OE1	2.63	0.47
1:K:489:TYR:HD1	1:K:489:TYR:C	2.16	0.47
1:K:553:HIS:CB	1:K:610:VAL:CG1	2.89	0.47
1:M:246:TRP:CD1	1:M:246:TRP:N	2.81	0.47
1:M:260:ILE:O	1:M:260:ILE:HG13	2.05	0.47
1:M:844:GLN:HB3	1:M:884:TRP:HZ2	1.80	0.47
1:M:1057:ARG:HA	1:M:1071:ASN:HA	1.96	0.47
1:M:1136:SER:HA	1:M:1185:PHE:HD2	1.78	0.47
1:A:457:HIS:NE2	1:A:493:SER:CB	2.72	0.47
1:A:718:THR:OG1	1:A:726:LYS:HB2	2.14	0.47
1:A:1233:VAL:CG1	1:A:1243:ILE:HG23	2.45	0.47
1:C:379:ILE:CD1	1:C:417:GLU:OE1	2.63	0.47
1:C:384:THR:HB	1:C:449:ASN:OD1	2.15	0.47
1:C:923:LYS:CB	1:C:940:VAL:HG21	2.41	0.47
1:C:1135:PHE:CD1	1:C:1142:LEU:HD13	2.50	0.47
1:C:1232:TYR:OH	1:C:1234:THR:CB	2.59	0.47
1:E:862:TYR:CZ	1:E:881:HIS:CA	2.97	0.47
1:G:862:TYR:CE2	1:G:881:HIS:CB	2.92	0.47
1:I:330:LEU:HD22	1:I:353:ILE:HG22	1.97	0.47
1:K:128:THR:HG22	1:K:166:GLU:OE1	2.14	0.47
1:K:145:GLY:O	1:K:146:GLU:HB2	2.14	0.47
1:K:667:THR:OG1	1:K:708:THR:O	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:923:LYS:CG	1:K:940:VAL:HG23	2.42	0.47
1:K:1057:ARG:HA	1:K:1071:ASN:HA	1.96	0.47
1:M:379:ILE:CD1	1:M:417:GLU:OE1	2.63	0.47
1:M:1168:LEU:HD11	1:M:1171:GLU:HG2	1.94	0.47
1:M:1247:LEU:CD1	1:M:1248:GLU:N	2.73	0.47
1:A:128:THR:HG22	1:A:166:GLU:OE1	2.14	0.47
1:A:259:GLN:H	1:A:259:GLN:HG2	1.56	0.47
1:A:379:ILE:CD1	1:A:417:GLU:OE1	2.63	0.47
1:A:457:HIS:NE2	1:A:493:SER:OG	2.48	0.47
1:A:461:ILE:HD11	1:A:491:MET:HG3	1.97	0.47
1:A:595:LEU:HG	1:A:1201:TRP:HH2	1.71	0.47
1:C:330:LEU:HD12	1:C:330:LEU:HA	1.74	0.47
1:C:457:HIS:NE2	1:C:493:SER:OG	2.48	0.47
1:C:591:GLY:O	1:C:592:MET:CB	2.56	0.47
1:C:657:GLU:HB2	1:C:680:LYS:HD2	1.96	0.47
1:C:741:GLY:HA3	1:C:770:TRP:HZ2	1.78	0.47
1:C:853:HIS:O	1:C:869:THR:N	2.39	0.47
1:C:861:GLN:N	1:C:884:TRP:CD1	2.83	0.47
1:C:1151:ILE:N	1:C:1167:PRO:HD2	2.24	0.47
1:E:330:LEU:HD22	1:E:353:ILE:HG22	1.97	0.47
1:E:1151:ILE:N	1:E:1167:PRO:HD2	2.24	0.47
1:G:374:MET:N	1:G:374:MET:SD	2.87	0.47
1:G:461:ILE:HD11	1:G:491:MET:CG	2.44	0.47
1:G:507:LEU:HA	1:G:510:ILE:HD12	1.96	0.47
1:G:657:GLU:HB2	1:G:680:LYS:HD2	1.96	0.47
1:G:741:GLY:HA3	1:G:770:TRP:HZ2	1.78	0.47
1:G:753:PRO:HG3	1:G:810:GLY:HA3	1.97	0.47
1:I:639:LEU:CG	1:I:653:ILE:HD12	2.43	0.47
1:I:662:CYS:SG	1:I:704:CYS:HA	2.54	0.47
1:I:718:THR:OG1	1:I:726:LYS:HB2	2.14	0.47
1:I:753:PRO:HG3	1:I:810:GLY:HA3	1.97	0.47
1:I:1094:SER:HA	1:I:1135:PHE:CB	2.44	0.47
1:I:1101:SER:HB3	1:I:1112:TRP:NE1	2.30	0.47
1:I:1166:ALA:N	1:I:1167:PRO:CD	2.78	0.47
1:K:461:ILE:HD11	1:K:491:MET:CG	2.44	0.47
1:K:473:LEU:HD22	1:K:484:TYR:CE1	2.43	0.47
1:K:903:ASP:OD1	1:K:1175:THR:HB	2.15	0.47
1:K:1208:GLU:OE1	1:K:1208:GLU:N	2.47	0.47
1:M:237:ARG:NH1	1:M:237:ARG:HG2	2.29	0.47
1:M:446:THR:O	1:M:450:CYS:HB3	2.15	0.47
1:M:662:CYS:SG	1:M:704:CYS:HA	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:681:VAL:HG11	1:M:716:LEU:HD21	1.97	0.47
1:M:700:GLU:HB3	1:M:721:SER:HB2	1.96	0.47
1:A:226:ARG:O	1:A:230:LEU:HG	2.14	0.47
1:A:1208:GLU:HG3	1:A:1211:GLN:CG	2.44	0.47
1:A:1220:LEU:HD21	1:A:1234:THR:HG21	1.97	0.47
1:C:147:PRO:HG3	1:E:121:GLN:HE22	1.79	0.47
1:C:330:LEU:HD22	1:C:353:ILE:HG22	1.97	0.47
1:C:461:ILE:HD11	1:C:491:MET:HG3	1.97	0.47
1:E:200:GLN:O	1:E:203:CYS:HB3	2.15	0.47
1:E:489:TYR:HD1	1:E:489:TYR:C	2.16	0.47
1:E:507:LEU:HA	1:E:510:ILE:HD12	1.96	0.47
1:G:145:GLY:O	1:G:146:GLU:HB2	2.14	0.47
1:G:384:THR:HB	1:G:449:ASN:OD1	2.15	0.47
1:G:844:GLN:HB3	1:G:884:TRP:HZ2	1.80	0.47
1:G:1094:SER:HA	1:G:1135:PHE:CB	2.44	0.47
1:G:1136:SER:HA	1:G:1185:PHE:HD2	1.78	0.47
1:I:334:PHE:CB	1:I:337:ARG:HG2	2.45	0.47
1:I:903:ASP:OD1	1:I:1175:THR:HB	2.15	0.47
1:K:610:VAL:HG22	1:K:907:ARG:CG	2.43	0.47
1:M:334:PHE:CB	1:M:337:ARG:HG2	2.45	0.47
1:M:1135:PHE:CD1	1:M:1142:LEU:HD13	2.50	0.47
1:A:246:TRP:CD1	1:A:246:TRP:N	2.81	0.47
1:A:384:THR:HB	1:A:449:ASN:OD1	2.15	0.47
1:A:394:LYS:CB	1:A:434:ARG:CB	2.80	0.47
1:A:629:ARG:HB2	1:A:642:PHE:O	2.15	0.47
1:A:727:LEU:HD13	1:A:758:LEU:HD22	1.97	0.47
1:A:920:VAL:HG12	1:A:921:MET:N	2.25	0.47
1:A:1101:SER:HB3	1:A:1112:TRP:NE1	2.30	0.47
1:A:1176:HIS:HB3	1:A:1218:THR:CG2	2.40	0.47
1:C:553:HIS:CB	1:C:610:VAL:CG1	2.89	0.47
1:C:862:TYR:CZ	1:C:881:HIS:CA	2.96	0.47
1:E:445:LEU:O	1:E:449:ASN:N	2.48	0.47
1:E:457:HIS:CB	1:E:493:SER:HB2	2.44	0.47
1:E:543:ASN:CB	1:E:576:VAL:CG2	2.92	0.47
1:E:741:GLY:HA3	1:E:770:TRP:HZ2	1.78	0.47
1:E:753:PRO:HG3	1:E:810:GLY:HA3	1.97	0.47
1:E:884:TRP:O	1:E:885:VAL:C	2.53	0.47
1:E:1136:SER:HA	1:E:1185:PHE:HD2	1.78	0.47
1:E:1200:LYS:CE	1:E:1211:GLN:HB3	2.45	0.47
1:G:179:PRO:CG	1:G:237:ARG:HH11	2.17	0.47
1:G:252:LYS:CE	1:G:252:LYS:CA	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:379:ILE:CD1	1:G:417:GLU:OE1	2.63	0.47
1:G:409:GLU:HG3	1:I:340:TYR:HH	1.75	0.47
1:G:446:THR:O	1:G:450:CYS:HB3	2.15	0.47
1:G:529:TYR:HE1	1:G:533:LEU:HD13	1.80	0.47
1:G:639:LEU:CG	1:G:653:ILE:HD12	2.43	0.47
1:G:884:TRP:O	1:G:885:VAL:C	2.53	0.47
1:G:1185:PHE:CD1	1:G:1192:LEU:CG	2.63	0.47
1:I:128:THR:HG22	1:I:166:GLU:OE1	2.14	0.47
1:I:145:GLY:O	1:I:146:GLU:HB2	2.14	0.47
1:I:241:ILE:C	1:I:242:LEU:CD1	2.81	0.47
1:I:742:HIS:CE1	1:I:768:LYS:HD2	2.50	0.47
1:I:861:GLN:N	1:I:884:TRP:CD1	2.83	0.47
1:I:1057:ARG:HA	1:I:1071:ASN:HA	1.96	0.47
1:I:1232:TYR:OH	1:I:1234:THR:CB	2.59	0.47
1:K:681:VAL:HG11	1:K:716:LEU:HD21	1.97	0.47
1:K:742:HIS:CE1	1:K:768:LYS:HD2	2.50	0.47
1:K:753:PRO:HG3	1:K:810:GLY:HA3	1.97	0.47
1:K:1204:VAL:HG12	1:K:1205:VAL:HG23	1.97	0.47
1:K:1208:GLU:HG3	1:K:1211:GLN:CG	2.44	0.47
1:M:200:GLN:O	1:M:203:CYS:HB3	2.15	0.47
1:M:903:ASP:OD1	1:M:1175:THR:HB	2.15	0.47
1:M:1204:VAL:HG12	1:M:1205:VAL:HG23	1.97	0.47
1:M:1220:LEU:HD21	1:M:1234:THR:HG21	1.97	0.47
1:A:446:THR:O	1:A:450:CYS:HB3	2.15	0.47
1:A:505:PHE:CE2	1:A:575:GLU:OE1	2.55	0.47
1:A:681:VAL:HG11	1:A:716:LEU:HD21	1.97	0.47
1:A:700:GLU:HB3	1:A:721:SER:HB2	1.96	0.47
1:A:884:TRP:O	1:A:885:VAL:C	2.53	0.47
1:A:1057:ARG:HA	1:A:1071:ASN:HA	1.96	0.47
1:C:457:HIS:CB	1:C:493:SER:HB2	2.44	0.47
1:E:1204:VAL:HG12	1:E:1205:VAL:HG23	1.97	0.47
1:G:306:LEU:HA	1:G:307:PRO:HD3	1.76	0.47
1:G:671:PHE:HE1	1:G:692:VAL:HG11	1.80	0.47
1:G:727:LEU:HD13	1:G:758:LEU:HD22	1.97	0.47
1:G:924:GLN:HB3	1:G:1238:LEU:CD1	2.45	0.47
1:G:1220:LEU:HD21	1:G:1234:THR:HG21	1.97	0.47
1:I:489:TYR:HD1	1:I:489:TYR:C	2.16	0.47
1:I:543:ASN:CB	1:I:576:VAL:CG2	2.92	0.47
1:I:844:GLN:HB3	1:I:884:TRP:HZ2	1.80	0.47
1:I:1044:GLN:HG2	1:I:1068:LYS:HZ2	1.80	0.47
1:I:1233:VAL:CG1	1:I:1243:ILE:HG23	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:359:TYR:HE1	1:M:361:TYR:CD1	2.32	0.47
1:M:529:TYR:HE1	1:M:533:LEU:HD13	1.80	0.47
1:M:570:GLU:OE2	1:M:571:PRO:HD2	2.14	0.47
1:A:461:ILE:HD11	1:A:491:MET:CG	2.44	0.46
1:A:573:THR:HA	1:A:577:TYR:CD2	2.47	0.46
1:A:1094:SER:HA	1:A:1135:PHE:CB	2.44	0.46
1:A:1187:PRO:HG2	1:A:1229:PHE:CB	2.42	0.46
1:C:200:GLN:O	1:C:203:CYS:HB3	2.15	0.46
1:C:543:ASN:CB	1:C:576:VAL:CG2	2.93	0.46
1:C:1101:SER:HB3	1:C:1112:TRP:NE1	2.30	0.46
1:C:1233:VAL:CG1	1:C:1243:ILE:HG23	2.45	0.46
1:E:334:PHE:CB	1:E:337:ARG:HG2	2.45	0.46
1:E:568:LEU:H	1:E:568:LEU:HG	1.51	0.46
1:E:629:ARG:HB2	1:E:642:PHE:O	2.15	0.46
1:G:200:GLN:O	1:G:203:CYS:HB3	2.15	0.46
1:G:448:LYS:O	1:G:448:LYS:HG2	2.16	0.46
1:G:543:ASN:CB	1:G:576:VAL:CG2	2.93	0.46
1:G:1174:ALA:O	1:G:1175:THR:CG2	2.63	0.46
1:G:1200:LYS:CE	1:G:1211:GLN:HB3	2.45	0.46
1:G:1228:ASP:CB	1:G:1230:LYS:HG2	2.37	0.46
1:I:200:GLN:O	1:I:203:CYS:HB3	2.15	0.46
1:I:553:HIS:CB	1:I:610:VAL:CG1	2.89	0.46
1:I:629:ARG:HB2	1:I:642:PHE:O	2.15	0.46
1:I:924:GLN:HB3	1:I:1238:LEU:CD1	2.45	0.46
1:K:844:GLN:HB3	1:K:884:TRP:HZ2	1.80	0.46
1:M:548:LEU:O	1:M:551:ASN:N	2.45	0.46
1:M:1233:VAL:CG1	1:M:1243:ILE:HG23	2.45	0.46
1:A:130:LYS:HB2	1:A:130:LYS:HE2	1.74	0.46
1:A:742:HIS:CE1	1:A:768:LYS:HD2	2.50	0.46
1:A:855:ALA:HB2	1:A:869:THR:HG23	1.96	0.46
1:A:861:GLN:N	1:A:884:TRP:CD1	2.83	0.46
1:A:861:GLN:N	1:A:884:TRP:HD1	2.14	0.46
1:C:727:LEU:HD13	1:C:758:LEU:HD22	1.97	0.46
1:C:861:GLN:N	1:C:884:TRP:HD1	2.14	0.46
1:C:875:VAL:CG1	1:C:915:CYS:SG	2.94	0.46
1:C:1166:ALA:N	1:C:1167:PRO:CD	2.78	0.46
1:C:1182:ASP:CB	1:C:1223:ILE:HG23	2.45	0.46
1:E:138:GLN:O	1:E:141:SER:HB3	2.16	0.46
1:E:457:HIS:NE2	1:E:493:SER:OG	2.48	0.46
1:E:861:GLN:N	1:E:884:TRP:CD1	2.83	0.46
1:E:1174:ALA:O	1:E:1175:THR:CG2	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1182:ASP:CB	1:E:1223:ILE:HG23	2.45	0.46
1:G:700:GLU:HB3	1:G:721:SER:HB2	1.96	0.46
1:G:742:HIS:CE1	1:G:768:LYS:HD2	2.50	0.46
1:G:861:GLN:N	1:G:884:TRP:CD1	2.83	0.46
1:G:1101:SER:HB3	1:G:1112:TRP:NE1	2.30	0.46
1:G:1181:THR:HG21	1:G:1221:LYS:CA	2.39	0.46
1:I:137:GLN:HG2	1:I:173:LEU:CD1	2.45	0.46
1:I:446:THR:O	1:I:450:CYS:HB3	2.15	0.46
1:K:629:ARG:HB2	1:K:642:PHE:O	2.15	0.46
1:K:657:GLU:HB2	1:K:680:LYS:HD2	1.96	0.46
1:K:855:ALA:HB2	1:K:869:THR:HG23	1.96	0.46
1:M:138:GLN:O	1:M:141:SER:HB3	2.16	0.46
1:M:457:HIS:NE2	1:M:493:SER:OG	2.48	0.46
1:M:461:ILE:HD11	1:M:491:MET:HG3	1.97	0.46
1:M:671:PHE:HE1	1:M:692:VAL:HG11	1.81	0.46
1:M:727:LEU:HD13	1:M:758:LEU:HD22	1.98	0.46
1:M:762:SER:OG	1:M:764:ASP:OD1	2.26	0.46
1:M:855:ALA:HB2	1:M:869:THR:HG23	1.96	0.46
1:M:1065:GLY:HA2	1:M:1088:VAL:HG23	1.97	0.46
1:M:1101:SER:HB3	1:M:1112:TRP:NE1	2.30	0.46
1:M:1182:ASP:CB	1:M:1223:ILE:HG23	2.45	0.46
1:A:398:LYS:O	1:A:401:CYS:HB2	2.16	0.46
1:A:657:GLU:HB2	1:A:680:LYS:HD2	1.96	0.46
1:C:132:LEU:HA	1:C:132:LEU:HD23	1.76	0.46
1:C:514:THR:HG23	1:C:514:THR:O	2.15	0.46
1:C:629:ARG:HB2	1:C:642:PHE:O	2.15	0.46
1:C:718:THR:OG1	1:C:726:LYS:HB2	2.14	0.46
1:C:844:GLN:HB3	1:C:884:TRP:HZ2	1.80	0.46
1:C:1181:THR:HG21	1:C:1221:LYS:CA	2.39	0.46
1:E:146:GLU:HG2	1:G:111:ARG:NH1	2.19	0.46
1:E:390:GLN:NE2	1:E:489:TYR:HE2	2.14	0.46
1:E:727:LEU:HD13	1:E:758:LEU:HD22	1.97	0.46
1:E:742:HIS:CE1	1:E:768:LYS:HD2	2.50	0.46
1:E:864:VAL:HG22	1:E:885:VAL:HG11	1.95	0.46
1:E:924:GLN:HB3	1:E:1238:LEU:CD1	2.45	0.46
1:G:398:LYS:O	1:G:401:CYS:HB2	2.16	0.46
1:G:489:TYR:HD1	1:G:489:TYR:C	2.16	0.46
1:G:718:THR:OG1	1:G:726:LYS:HB2	2.14	0.46
1:I:209:ASP:O	1:I:210:GLU:CB	2.63	0.46
1:I:448:LYS:HG2	1:I:448:LYS:O	2.15	0.46
1:I:727:LEU:HD13	1:I:758:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1174:ALA:O	1:I:1175:THR:CG2	2.63	0.46
1:K:137:GLN:HG2	1:K:173:LEU:CD1	2.45	0.46
1:K:241:ILE:C	1:K:242:LEU:CD1	2.81	0.46
1:K:244:ASP:O	1:K:245:VAL:HG23	2.16	0.46
1:K:1065:GLY:HA2	1:K:1088:VAL:HG23	1.97	0.46
1:K:1175:THR:HG1	1:K:1176:HIS:CE1	2.33	0.46
1:M:128:THR:HG22	1:M:166:GLU:OE1	2.14	0.46
1:M:629:ARG:HB2	1:M:642:PHE:O	2.15	0.46
1:M:657:GLU:HB2	1:M:680:LYS:HD2	1.96	0.46
1:A:208:GLN:H	1:A:208:GLN:HG3	1.48	0.46
1:A:209:ASP:O	1:A:210:GLU:CB	2.63	0.46
1:A:862:TYR:CZ	1:A:881:HIS:CA	2.96	0.46
1:A:1151:ILE:N	1:A:1167:PRO:HD2	2.24	0.46
1:A:1204:VAL:HG12	1:A:1205:VAL:HG23	1.97	0.46
1:C:209:ASP:O	1:C:210:GLU:CB	2.63	0.46
1:C:514:THR:HG21	1:C:555:LEU:HD11	1.97	0.46
1:C:742:HIS:CE1	1:C:768:LYS:HD2	2.50	0.46
1:C:1178:GLY:O	1:C:1179:TRP:CB	2.60	0.46
1:C:1204:VAL:HG12	1:C:1205:VAL:HG23	1.97	0.46
1:C:1220:LEU:HD21	1:C:1234:THR:HG21	1.97	0.46
1:E:1174:ALA:C	1:E:1175:THR:HG23	2.36	0.46
1:E:1220:LEU:HD21	1:E:1234:THR:HG21	1.97	0.46
1:E:1233:VAL:CG1	1:E:1243:ILE:HG23	2.45	0.46
1:G:138:GLN:O	1:G:141:SER:HB3	2.16	0.46
1:G:1174:ALA:C	1:G:1175:THR:HG23	2.36	0.46
1:I:138:GLN:O	1:I:141:SER:HB3	2.16	0.46
1:I:922:LEU:CD1	1:I:1241:LEU:CD2	2.87	0.46
1:K:200:GLN:O	1:K:203:CYS:HB3	2.15	0.46
1:K:209:ASP:O	1:K:210:GLU:CB	2.63	0.46
1:K:448:LYS:HG2	1:K:448:LYS:O	2.15	0.46
1:K:727:LEU:HD13	1:K:758:LEU:HD22	1.97	0.46
1:K:862:TYR:CE2	1:K:881:HIS:CB	2.92	0.46
1:M:398:LYS:O	1:M:401:CYS:HB2	2.16	0.46
1:M:884:TRP:O	1:M:885:VAL:C	2.53	0.46
1:A:1145:GLY:HA2	1:A:1151:ILE:HD13	1.98	0.46
1:A:1178:GLY:O	1:A:1179:TRP:CB	2.60	0.46
1:A:1208:GLU:HG3	1:A:1211:GLN:NE2	2.31	0.46
1:C:1212:THR:CG2	1:C:1213:PHE:H	2.12	0.46
1:E:928:VAL:HG12	1:E:937:VAL:CB	2.46	0.46
1:G:130:LYS:HE2	1:G:130:LYS:HB2	1.73	0.46
1:G:155:MET:HE2	1:G:155:MET:HB2	1.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:507:LEU:HD23	1:G:510:ILE:HD12	1.98	0.46
1:G:861:GLN:N	1:G:884:TRP:HD1	2.14	0.46
1:G:903:ASP:OD1	1:G:1175:THR:HB	2.15	0.46
1:G:1051:ARG:O	1:G:1058:LEU:HD12	2.16	0.46
1:G:1151:ILE:N	1:G:1167:PRO:HD2	2.24	0.46
1:G:1233:VAL:CG1	1:G:1243:ILE:HG23	2.45	0.46
1:I:529:TYR:HE1	1:I:533:LEU:HD13	1.80	0.46
1:I:1136:SER:HA	1:I:1185:PHE:HD2	1.78	0.46
1:I:1220:LEU:HD23	1:I:1234:THR:CG2	2.43	0.46
1:K:298:PHE:CZ	1:K:325:SER:HA	2.42	0.46
1:K:330:LEU:HD22	1:K:353:ILE:HG22	1.97	0.46
1:K:445:LEU:O	1:K:449:ASN:N	2.48	0.46
1:K:457:HIS:NE2	1:K:493:SER:OG	2.48	0.46
1:K:507:LEU:HD23	1:K:510:ILE:HD12	1.98	0.46
1:K:861:GLN:N	1:K:884:TRP:CD1	2.83	0.46
1:K:1022:SER:OG	1:K:1023:ASP:N	2.48	0.46
1:K:1166:ALA:N	1:K:1167:PRO:CD	2.78	0.46
1:M:244:ASP:O	1:M:245:VAL:HG23	2.16	0.46
1:M:384:THR:HB	1:M:449:ASN:OD1	2.15	0.46
1:M:861:GLN:N	1:M:884:TRP:CD1	2.83	0.46
1:M:862:TYR:HD1	1:M:885:VAL:CB	2.22	0.46
1:M:1022:SER:OG	1:M:1023:ASP:N	2.48	0.46
1:M:1208:GLU:HG3	1:M:1211:GLN:NE2	2.31	0.46
1:A:244:ASP:O	1:A:245:VAL:HG23	2.16	0.46
1:A:330:LEU:HD22	1:A:353:ILE:HG22	1.97	0.46
1:A:390:GLN:NE2	1:A:489:TYR:HE2	2.14	0.46
1:A:448:LYS:HG2	1:A:448:LYS:O	2.15	0.46
1:A:514:THR:HG21	1:A:555:LEU:HD11	1.97	0.46
1:A:568:LEU:H	1:A:568:LEU:HG	1.51	0.46
1:A:671:PHE:HE1	1:A:692:VAL:HG11	1.80	0.46
1:C:138:GLN:O	1:C:141:SER:HB3	2.16	0.46
1:C:390:GLN:NE2	1:C:489:TYR:HE2	2.14	0.46
1:C:448:LYS:HG2	1:C:448:LYS:O	2.15	0.46
1:C:1145:GLY:HA2	1:C:1151:ILE:HD13	1.98	0.46
1:C:1200:LYS:CE	1:C:1211:GLN:HB3	2.45	0.46
1:E:209:ASP:O	1:E:210:GLU:CB	2.63	0.46
1:E:252:LYS:CE	1:E:252:LYS:CA	2.92	0.46
1:E:379:ILE:CD1	1:E:417:GLU:OE1	2.63	0.46
1:E:398:LYS:O	1:E:401:CYS:HB2	2.16	0.46
1:E:446:THR:O	1:E:450:CYS:HB3	2.15	0.46
1:E:461:ILE:HD11	1:E:491:MET:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:137:GLN:HG2	1:G:173:LEU:CD1	2.45	0.46
1:G:928:VAL:HG12	1:G:937:VAL:CB	2.46	0.46
1:G:1057:ARG:HA	1:G:1071:ASN:HA	1.96	0.46
1:G:1204:VAL:HG12	1:G:1205:VAL:HG23	1.97	0.46
1:I:246:TRP:CD1	1:I:246:TRP:N	2.81	0.46
1:I:681:VAL:HG11	1:I:716:LEU:HD21	1.97	0.46
1:I:1204:VAL:HG12	1:I:1205:VAL:HG23	1.97	0.46
1:I:1228:ASP:CB	1:I:1230:LYS:HG2	2.37	0.46
1:K:310:ALA:O	1:K:313:ILE:HG22	2.16	0.46
1:K:398:LYS:O	1:K:401:CYS:HB2	2.16	0.46
1:K:446:THR:O	1:K:450:CYS:HB3	2.15	0.46
1:K:924:GLN:HB3	1:K:1238:LEU:CD1	2.45	0.46
1:K:1094:SER:HA	1:K:1135:PHE:CB	2.44	0.46
1:K:1182:ASP:CB	1:K:1223:ILE:HG23	2.45	0.46
1:K:1200:LYS:CE	1:K:1211:GLN:HB3	2.45	0.46
1:M:1145:GLY:HA2	1:M:1151:ILE:HD13	1.98	0.46
1:A:200:GLN:O	1:A:203:CYS:HB3	2.15	0.46
1:A:481:MET:O	1:A:485:ASN:ND2	2.49	0.46
1:A:1022:SER:OG	1:A:1023:ASP:N	2.48	0.46
1:A:1213:PHE:HD2	1:A:1214:TYR:H	1.63	0.46
1:C:241:ILE:C	1:C:242:LEU:CD1	2.81	0.46
1:C:446:THR:O	1:C:450:CYS:HB3	2.15	0.46
1:C:753:PRO:HG3	1:C:810:GLY:HA3	1.97	0.46
1:C:923:LYS:CG	1:C:940:VAL:HG23	2.42	0.46
1:C:1208:GLU:HG3	1:C:1211:GLN:NE2	2.31	0.46
1:E:244:ASP:O	1:E:245:VAL:HG23	2.16	0.46
1:E:514:THR:HG21	1:E:555:LEU:HD11	1.97	0.46
1:E:558:GLN:CB	1:E:559:PRO:CD	2.78	0.46
1:E:1057:ARG:HA	1:E:1071:ASN:HA	1.96	0.46
1:G:241:ILE:C	1:G:242:LEU:CD1	2.81	0.46
1:G:1176:HIS:HB2	1:G:1218:THR:CB	2.38	0.46
1:I:557:ARG:CG	1:I:558:GLN:N	2.79	0.46
1:I:671:PHE:HE1	1:I:692:VAL:HG11	1.80	0.46
1:I:926:VAL:HG11	1:I:938:LEU:O	2.16	0.46
1:K:928:VAL:HG12	1:K:937:VAL:CB	2.46	0.46
1:K:1233:VAL:CG1	1:K:1243:ILE:HG23	2.45	0.46
1:M:137:GLN:HG2	1:M:173:LEU:CD1	2.45	0.46
1:M:390:GLN:NE2	1:M:489:TYR:HE2	2.14	0.46
1:M:481:MET:O	1:M:485:ASN:ND2	2.49	0.46
1:M:496:MET:N	1:M:496:MET:SD	2.89	0.46
1:A:138:GLN:O	1:A:141:SER:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:LEU:O	1:A:551:ASN:N	2.45	0.46
1:A:845:TYR:HB3	1:A:858:ALA:HB3	1.98	0.46
1:A:1135:PHE:CD1	1:A:1142:LEU:HD13	2.50	0.46
1:C:334:PHE:CB	1:C:337:ARG:HG2	2.45	0.46
1:C:398:LYS:O	1:C:401:CYS:HB2	2.16	0.46
1:C:505:PHE:CE2	1:C:575:GLU:OE1	2.55	0.46
1:C:529:TYR:HE1	1:C:533:LEU:HD13	1.80	0.46
1:C:836:HIS:ND1	1:C:837:THR:O	2.49	0.46
1:C:845:TYR:HB3	1:C:858:ALA:HB3	1.98	0.46
1:E:671:PHE:HE1	1:E:692:VAL:HG11	1.80	0.46
1:E:922:LEU:HD12	1:E:1241:LEU:CD2	2.39	0.46
1:E:1212:THR:CG2	1:E:1213:PHE:H	2.12	0.46
1:G:390:GLN:NE2	1:G:489:TYR:HE2	2.14	0.46
1:G:597:TRP:CH2	1:G:603:ILE:HG12	2.43	0.46
1:G:1182:ASP:CB	1:G:1223:ILE:HG23	2.45	0.46
1:I:496:MET:SD	1:I:496:MET:N	2.89	0.46
1:I:887:GLY:O	1:I:900:SER:N	2.49	0.46
1:I:1051:ARG:O	1:I:1058:LEU:HD12	2.16	0.46
1:I:1182:ASP:CB	1:I:1223:ILE:HG23	2.45	0.46
1:I:1220:LEU:HD21	1:I:1234:THR:HG21	1.97	0.46
1:K:529:TYR:HE1	1:K:533:LEU:HD13	1.80	0.46
1:K:1101:SER:HB3	1:K:1112:TRP:NE1	2.30	0.46
1:M:573:THR:HA	1:M:577:TYR:CD2	2.47	0.46
1:M:581:LYS:HD2	1:M:581:LYS:HA	1.68	0.46
1:M:595:LEU:HG	1:M:1201:TRP:HH2	1.71	0.46
1:M:753:PRO:HG3	1:M:810:GLY:HA3	1.97	0.46
1:M:924:GLN:HB3	1:M:1238:LEU:CD1	2.45	0.46
1:M:1200:LYS:CE	1:M:1211:GLN:HB3	2.45	0.46
1:A:137:GLN:HG2	1:A:173:LEU:CD1	2.45	0.46
1:A:334:PHE:CB	1:A:337:ARG:HG2	2.45	0.46
1:A:651:LEU:HD22	1:A:651:LEU:HA	1.79	0.46
1:A:924:GLN:HB3	1:A:1238:LEU:CD1	2.45	0.46
1:A:1174:ALA:O	1:A:1175:THR:CG2	2.63	0.46
1:A:1182:ASP:CB	1:A:1223:ILE:HG23	2.45	0.46
1:C:244:ASP:O	1:C:245:VAL:HG23	2.16	0.46
1:C:310:ALA:O	1:C:313:ILE:HG22	2.16	0.46
1:C:516:LEU:HD12	1:C:516:LEU:HA	1.83	0.46
1:C:884:TRP:O	1:C:885:VAL:C	2.53	0.46
1:C:1057:ARG:HA	1:C:1071:ASN:HA	1.96	0.46
1:C:1174:ALA:C	1:C:1175:THR:HG23	2.36	0.46
1:E:310:ALA:O	1:E:313:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:448:LYS:O	1:E:448:LYS:HG2	2.15	0.46
1:E:507:LEU:HD23	1:E:510:ILE:HD12	1.98	0.46
1:E:1022:SER:OG	1:E:1023:ASP:N	2.48	0.46
1:E:1101:SER:HB3	1:E:1112:TRP:NE1	2.30	0.46
1:G:597:TRP:CZ2	1:G:603:ILE:CG1	2.94	0.46
1:G:926:VAL:HG11	1:G:938:LEU:O	2.16	0.46
1:G:1208:GLU:HG3	1:G:1211:GLN:NE2	2.31	0.46
1:I:398:LYS:O	1:I:401:CYS:HB2	2.16	0.46
1:I:657:GLU:HB2	1:I:680:LYS:HD2	1.96	0.46
1:I:923:LYS:CG	1:I:940:VAL:HG23	2.42	0.46
1:I:1200:LYS:CE	1:I:1211:GLN:HB3	2.45	0.46
1:K:138:GLN:O	1:K:141:SER:HB3	2.16	0.46
1:K:334:PHE:CB	1:K:337:ARG:HG2	2.45	0.46
1:K:384:THR:HB	1:K:449:ASN:OD1	2.15	0.46
1:K:887:GLY:O	1:K:900:SER:N	2.49	0.46
1:K:1220:LEU:HD21	1:K:1234:THR:HG21	1.97	0.46
1:M:507:LEU:HD23	1:M:510:ILE:HD12	1.98	0.46
1:M:861:GLN:N	1:M:884:TRP:HD1	2.14	0.46
1:A:642:PHE:CE2	1:A:644:ALA:HA	2.51	0.46
1:C:130:LYS:HB2	1:C:130:LYS:HE2	1.73	0.46
1:C:461:ILE:HD11	1:C:491:MET:CG	2.44	0.46
1:C:642:PHE:CE2	1:C:644:ALA:HA	2.51	0.46
1:C:922:LEU:HD12	1:C:1241:LEU:CD2	2.39	0.46
1:C:1174:ALA:O	1:C:1175:THR:CG2	2.63	0.46
1:C:1174:ALA:O	1:C:1175:THR:HG22	2.16	0.46
1:E:429:ASN:HD22	1:E:429:ASN:HA	1.66	0.46
1:E:496:MET:N	1:E:496:MET:SD	2.89	0.46
1:E:505:PHE:CE2	1:E:575:GLU:OE1	2.55	0.46
1:E:529:TYR:HE1	1:E:533:LEU:HD13	1.80	0.46
1:E:844:GLN:HB3	1:E:884:TRP:HZ2	1.80	0.46
1:E:920:VAL:HG12	1:E:921:MET:N	2.25	0.46
1:E:923:LYS:CG	1:E:940:VAL:HG23	2.42	0.46
1:E:1145:GLY:HA2	1:E:1151:ILE:HD13	1.98	0.46
1:G:190:GLN:OE1	1:G:190:GLN:HA	2.16	0.46
1:G:209:ASP:O	1:G:210:GLU:CB	2.63	0.46
1:G:231:MET:HG2	1:G:258:CYS:HB2	1.98	0.46
1:G:244:ASP:O	1:G:245:VAL:HG23	2.16	0.46
1:G:310:ALA:O	1:G:313:ILE:HG22	2.16	0.46
1:G:481:MET:O	1:G:485:ASN:ND2	2.49	0.46
1:G:887:GLY:O	1:G:900:SER:N	2.49	0.46
1:G:1182:ASP:HB3	1:G:1223:ILE:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:231:MET:HG2	1:I:258:CYS:HB2	1.98	0.46
1:I:244:ASP:O	1:I:245:VAL:HG23	2.16	0.46
1:I:310:ALA:O	1:I:313:ILE:HG22	2.16	0.46
1:I:384:THR:HB	1:I:449:ASN:OD1	2.15	0.46
1:I:507:LEU:HD23	1:I:510:ILE:HD12	1.98	0.46
1:I:544:PHE:HD1	1:I:576:VAL:CG1	2.17	0.46
1:I:1065:GLY:HA2	1:I:1088:VAL:HG23	1.97	0.46
1:I:1181:THR:CG2	1:I:1221:LYS:HA	2.40	0.46
1:K:461:ILE:HD11	1:K:491:MET:HG3	1.97	0.46
1:K:866:LEU:HG	1:K:875:VAL:HB	1.98	0.46
1:K:1051:ARG:O	1:K:1058:LEU:HD12	2.16	0.46
1:K:1201:TRP:CB	1:K:1210:SER:O	2.58	0.46
1:M:209:ASP:O	1:M:210:GLU:CB	2.63	0.46
1:M:310:ALA:O	1:M:313:ILE:HG22	2.16	0.46
1:M:447:GLU:OE1	1:M:447:GLU:HA	2.16	0.46
1:M:887:GLY:O	1:M:900:SER:N	2.49	0.46
1:A:544:PHE:HD1	1:A:576:VAL:CG1	2.17	0.45
1:A:844:GLN:HB3	1:A:884:TRP:HZ2	1.80	0.45
1:A:1200:LYS:CE	1:A:1211:GLN:HB3	2.45	0.45
1:C:481:MET:O	1:C:485:ASN:ND2	2.49	0.45
1:C:557:ARG:HA	1:C:557:ARG:HD3	1.87	0.45
1:C:1022:SER:OG	1:C:1023:ASP:N	2.48	0.45
1:E:1051:ARG:O	1:E:1058:LEU:HD12	2.16	0.45
1:E:1200:LYS:CE	1:E:1211:GLN:CB	2.95	0.45
1:G:533:LEU:HB3	1:G:534:ASP:H	1.59	0.45
1:I:610:VAL:HG22	1:I:907:ARG:CG	2.43	0.45
1:I:1174:ALA:C	1:I:1175:THR:HG23	2.36	0.45
1:K:557:ARG:CG	1:K:558:GLN:N	2.79	0.45
1:K:922:LEU:HD12	1:K:1241:LEU:CD2	2.39	0.45
1:K:1174:ALA:O	1:K:1175:THR:CG2	2.64	0.45
1:K:1200:LYS:CE	1:K:1211:GLN:CB	2.95	0.45
1:M:330:LEU:HD22	1:M:353:ILE:HG22	1.97	0.45
1:M:642:PHE:CE2	1:M:644:ALA:HA	2.52	0.45
1:M:866:LEU:HG	1:M:875:VAL:HB	1.98	0.45
1:M:1051:ARG:O	1:M:1058:LEU:HD12	2.16	0.45
1:A:883:SER:OG	1:A:902:ASP:N	2.50	0.45
1:A:903:ASP:OD1	1:A:1175:THR:HB	2.15	0.45
1:A:1232:TYR:OH	1:A:1234:THR:CB	2.59	0.45
1:C:190:GLN:OE1	1:C:190:GLN:HA	2.16	0.45
1:C:533:LEU:HB3	1:C:534:ASP:H	1.59	0.45
1:C:681:VAL:HG11	1:C:716:LEU:HD21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:924:GLN:HB3	1:C:1238:LEU:CD1	2.45	0.45
1:C:926:VAL:HG11	1:C:938:LEU:O	2.16	0.45
1:E:130:LYS:HB2	1:E:130:LYS:HE2	1.73	0.45
1:E:481:MET:O	1:E:485:ASN:ND2	2.49	0.45
1:E:603:ILE:CB	1:E:1240:ILE:HG21	2.47	0.45
1:G:1200:LYS:CE	1:G:1211:GLN:CB	2.95	0.45
1:I:866:LEU:HG	1:I:875:VAL:HB	1.98	0.45
1:I:883:SER:OG	1:I:902:ASP:N	2.50	0.45
1:I:1200:LYS:CE	1:I:1211:GLN:CB	2.95	0.45
1:K:447:GLU:OE1	1:K:447:GLU:HA	2.17	0.45
1:K:481:MET:O	1:K:485:ASN:ND2	2.49	0.45
1:M:241:ILE:C	1:M:242:LEU:CD1	2.81	0.45
1:M:445:LEU:O	1:M:449:ASN:N	2.48	0.45
1:M:448:LYS:O	1:M:448:LYS:HG2	2.15	0.45
1:M:453:LEU:CD1	1:M:454:GLN:N	2.73	0.45
1:M:862:TYR:CZ	1:M:881:HIS:CA	2.96	0.45
1:M:875:VAL:CG1	1:M:915:CYS:SG	2.94	0.45
1:M:1151:ILE:N	1:M:1167:PRO:HD2	2.24	0.45
1:M:1174:ALA:O	1:M:1175:THR:CG2	2.63	0.45
1:M:1201:TRP:CB	1:M:1210:SER:O	2.58	0.45
1:A:149:TRP:HZ2	1:A:255:ASP:HA	1.81	0.45
1:A:384:THR:O	1:A:387:SER:CB	2.65	0.45
1:A:447:GLU:OE1	1:A:447:GLU:HA	2.17	0.45
1:A:887:GLY:O	1:A:900:SER:N	2.49	0.45
1:A:922:LEU:CD1	1:A:1241:LEU:CD2	2.87	0.45
1:A:928:VAL:HG12	1:A:937:VAL:CB	2.46	0.45
1:A:1065:GLY:HA2	1:A:1088:VAL:HG23	1.97	0.45
1:C:603:ILE:CB	1:C:1240:ILE:HG21	2.47	0.45
1:E:137:GLN:HG2	1:E:173:LEU:CD1	2.45	0.45
1:E:534:ASP:O	1:E:538:CYS:SG	2.69	0.45
1:E:681:VAL:HG11	1:E:716:LEU:HD21	1.97	0.45
1:E:926:VAL:HG11	1:E:938:LEU:O	2.16	0.45
1:E:1025:ALA:CB	1:E:1044:GLN:O	2.65	0.45
1:E:1182:ASP:HB3	1:E:1223:ILE:HG23	1.98	0.45
1:G:334:PHE:CB	1:G:337:ARG:HG2	2.45	0.45
1:G:457:HIS:NE2	1:G:493:SER:OG	2.48	0.45
1:G:681:VAL:HG11	1:G:716:LEU:HD21	1.97	0.45
1:I:147:PRO:HG3	1:K:121:GLN:HE22	1.79	0.45
1:I:514:THR:O	1:I:514:THR:HG23	2.15	0.45
1:I:928:VAL:HG12	1:I:937:VAL:CB	2.46	0.45
1:I:1174:ALA:O	1:I:1175:THR:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:242:LEU:HD12	1:K:242:LEU:N	2.26	0.45
1:K:557:ARG:HA	1:K:557:ARG:HD3	1.87	0.45
1:M:384:THR:O	1:M:387:SER:CB	2.65	0.45
1:M:403:LEU:HD11	1:M:459:LYS:HZ2	1.81	0.45
1:M:1174:ALA:O	1:M:1175:THR:HG22	2.17	0.45
1:A:529:TYR:HE1	1:A:533:LEU:HD13	1.80	0.45
1:A:866:LEU:HG	1:A:875:VAL:HB	1.98	0.45
1:C:597:TRP:CZ2	1:C:603:ILE:CG1	2.94	0.45
1:C:597:TRP:CD1	1:C:1243:ILE:N	2.85	0.45
1:C:928:VAL:HG12	1:C:937:VAL:CB	2.46	0.45
1:E:149:TRP:HZ2	1:E:255:ASP:HA	1.81	0.45
1:E:221:GLU:O	1:E:224:LYS:HB3	2.17	0.45
1:E:384:THR:O	1:E:387:SER:CB	2.65	0.45
1:E:727:LEU:HB2	1:E:739:MET:HE1	1.98	0.45
1:E:836:HIS:ND1	1:E:837:THR:O	2.49	0.45
1:E:845:TYR:HB3	1:E:858:ALA:HB3	1.98	0.45
1:E:861:GLN:N	1:E:884:TRP:HD1	2.14	0.45
1:E:1065:GLY:HA2	1:E:1088:VAL:HG23	1.97	0.45
1:E:1208:GLU:HG3	1:E:1211:GLN:NE2	2.31	0.45
1:G:337:ARG:HD3	1:G:341:TYR:CE2	2.52	0.45
1:G:359:TYR:HE1	1:G:361:TYR:CD1	2.32	0.45
1:G:434:ARG:CG	1:G:434:ARG:HH21	2.30	0.45
1:G:445:LEU:O	1:G:449:ASN:N	2.48	0.45
1:G:496:MET:N	1:G:496:MET:SD	2.89	0.45
1:G:529:TYR:C	1:G:532:ILE:CG2	2.85	0.45
1:G:557:ARG:CG	1:G:558:GLN:N	2.79	0.45
1:G:883:SER:OG	1:G:902:ASP:N	2.50	0.45
1:I:246:TRP:HH2	1:I:370:ILE:HG22	1.82	0.45
1:I:1182:ASP:HB3	1:I:1223:ILE:HG23	1.99	0.45
1:I:1208:GLU:HG3	1:I:1211:GLN:NE2	2.31	0.45
1:K:231:MET:HG2	1:K:258:CYS:HB2	1.98	0.45
1:K:641:VAL:HB	1:K:651:LEU:HB2	1.97	0.45
1:K:671:PHE:HE1	1:K:692:VAL:HG11	1.80	0.45
1:K:1176:HIS:HB2	1:K:1218:THR:CB	2.38	0.45
1:K:1213:PHE:HD2	1:K:1214:TYR:H	1.63	0.45
1:M:420:ASN:C	1:M:422:SER:H	2.20	0.45
1:M:473:LEU:HD22	1:M:484:TYR:CE1	2.43	0.45
1:M:529:TYR:C	1:M:532:ILE:CG2	2.85	0.45
1:A:136:ILE:HD13	1:A:152:ILE:HD13	1.99	0.45
1:A:434:ARG:CG	1:A:434:ARG:HH21	2.30	0.45
1:A:507:LEU:HD23	1:A:510:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:862:TYR:CE2	1:A:881:HIS:CB	2.93	0.45
1:A:926:VAL:HG11	1:A:938:LEU:O	2.16	0.45
1:A:1044:GLN:HG2	1:A:1068:LYS:HZ2	1.81	0.45
1:C:137:GLN:HG2	1:C:173:LEU:CD1	2.45	0.45
1:C:507:LEU:HD23	1:C:510:ILE:HD12	1.98	0.45
1:C:1176:HIS:HB3	1:C:1218:THR:CG2	2.40	0.45
1:E:231:MET:HG2	1:E:258:CYS:HB2	1.98	0.45
1:E:1166:ALA:N	1:E:1167:PRO:CD	2.78	0.45
2:F:16:GLN:OE1	2:F:16:GLN:N	2.47	0.45
1:G:318:LYS:HD3	1:G:439:ASP:HB2	1.98	0.45
1:G:384:THR:O	1:G:387:SER:CB	2.65	0.45
1:G:514:THR:HG23	1:G:514:THR:O	2.15	0.45
1:G:922:LEU:HD12	1:G:1241:LEU:CD2	2.39	0.45
1:G:1106:ASP:HA	1:G:1129:CYS:HB3	1.99	0.45
5:H:201:HEM:CBC	5:H:201:HEM:HMC1	2.28	0.45
1:I:419:VAL:HG11	1:I:426:CYS:HG	1.79	0.45
1:I:420:ASN:C	1:I:422:SER:H	2.20	0.45
1:I:457:HIS:CD2	1:I:493:SER:OG	2.69	0.45
1:I:845:TYR:OH	1:I:888:VAL:O	2.25	0.45
1:I:861:GLN:N	1:I:884:TRP:HD1	2.14	0.45
1:K:434:ARG:CG	1:K:434:ARG:HH21	2.30	0.45
1:K:642:PHE:CE2	1:K:644:ALA:HA	2.52	0.45
1:K:816:ALA:HB2	1:K:821:ILE:HG12	1.99	0.45
1:K:884:TRP:O	1:K:885:VAL:C	2.53	0.45
1:K:1145:GLY:HA2	1:K:1151:ILE:HD13	1.98	0.45
1:K:1174:ALA:O	1:K:1175:THR:HG22	2.17	0.45
1:M:845:TYR:HB3	1:M:858:ALA:HB3	1.98	0.45
1:A:221:GLU:O	1:A:224:LYS:HB3	2.17	0.45
1:A:310:ALA:O	1:A:313:ILE:HG22	2.16	0.45
1:A:453:LEU:CD1	1:A:454:GLN:N	2.73	0.45
1:A:496:MET:SD	1:A:496:MET:N	2.89	0.45
1:A:514:THR:HG23	1:A:514:THR:O	2.15	0.45
1:A:597:TRP:CD1	1:A:1243:ILE:N	2.85	0.45
1:A:673:ALA:H	1:A:707:PHE:HE2	1.65	0.45
1:A:681:VAL:O	1:A:694:THR:HA	2.17	0.45
1:A:922:LEU:HD12	1:A:1241:LEU:CD2	2.39	0.45
1:A:1025:ALA:CB	1:A:1044:GLN:O	2.65	0.45
1:C:149:TRP:HZ2	1:C:255:ASP:HA	1.82	0.45
1:C:862:TYR:HD1	1:C:885:VAL:CB	2.22	0.45
1:C:1200:LYS:CE	1:C:1211:GLN:CB	2.95	0.45
2:D:16:GLN:OE1	2:D:16:GLN:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:318:LYS:HD3	1:E:439:ASP:HB2	1.98	0.45
1:E:337:ARG:HD3	1:E:341:TYR:CE2	2.52	0.45
1:E:597:TRP:CD1	1:E:1243:ILE:N	2.85	0.45
1:E:642:PHE:CE2	1:E:644:ALA:HA	2.51	0.45
1:E:1176:HIS:HB3	1:E:1218:THR:CG2	2.40	0.45
1:G:221:GLU:O	1:G:224:LYS:HB3	2.17	0.45
1:G:1174:ALA:O	1:G:1175:THR:HG22	2.16	0.45
1:I:337:ARG:HD3	1:I:341:TYR:CE2	2.52	0.45
1:I:457:HIS:NE2	1:I:493:SER:OG	2.48	0.45
1:I:473:LEU:CD1	1:I:480:CYS:HB3	2.46	0.45
1:I:816:ALA:HB2	1:I:821:ILE:HG12	1.99	0.45
1:I:1106:ASP:HA	1:I:1129:CYS:HB3	1.99	0.45
1:I:1201:TRP:CB	1:I:1210:SER:O	2.58	0.45
1:K:171:HIS:CD2	1:K:171:HIS:O	2.70	0.45
1:K:246:TRP:HH2	1:K:370:ILE:HG22	1.82	0.45
1:K:384:THR:O	1:K:387:SER:CB	2.65	0.45
1:K:473:LEU:CD1	1:K:480:CYS:HB3	2.47	0.45
1:K:496:MET:N	1:K:496:MET:SD	2.89	0.45
1:K:514:THR:HG21	1:K:555:LEU:HD11	1.97	0.45
1:K:514:THR:O	1:K:514:THR:HG23	2.15	0.45
1:K:581:LYS:HA	1:K:581:LYS:HD2	1.68	0.45
1:K:673:ALA:H	1:K:707:PHE:HE2	1.65	0.45
1:K:861:GLN:N	1:K:884:TRP:HD1	2.14	0.45
1:M:171:HIS:CD2	1:M:171:HIS:O	2.70	0.45
1:M:514:THR:HG21	1:M:555:LEU:HD11	1.97	0.45
1:M:556:GLY:O	1:M:557:ARG:O	2.35	0.45
1:M:816:ALA:HB2	1:M:821:ILE:HG12	1.99	0.45
1:M:836:HIS:ND1	1:M:837:THR:O	2.49	0.45
1:M:1174:ALA:C	1:M:1175:THR:HG23	2.36	0.45
1:A:603:ILE:CB	1:A:1240:ILE:HG21	2.47	0.45
1:A:1063:PHE:HA	1:A:1087:THR:HG22	1.99	0.45
1:C:221:GLU:O	1:C:224:LYS:HB3	2.17	0.45
1:C:460:ILE:HD13	1:C:490:HIS:CD2	2.52	0.45
1:C:673:ALA:H	1:C:707:PHE:HE2	1.65	0.45
1:E:330:LEU:HD12	1:E:330:LEU:HA	1.74	0.45
1:E:529:TYR:C	1:E:532:ILE:CG2	2.85	0.45
1:E:561:PRO:CB	1:E:1214:TYR:CD2	2.86	0.45
1:E:922:LEU:CD1	1:E:1241:LEU:CD2	2.87	0.45
1:G:251:LEU:HD11	1:G:262:LEU:HD13	1.99	0.45
1:G:457:HIS:CD2	1:G:493:SER:OG	2.69	0.45
1:G:473:LEU:HD22	1:G:484:TYR:CE1	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:603:ILE:CB	1:G:1240:ILE:HG21	2.47	0.45
1:G:629:ARG:HB2	1:G:642:PHE:O	2.15	0.45
1:G:651:LEU:HD22	1:G:651:LEU:HA	1.79	0.45
1:G:1011:PHE:HE1	1:G:1018:LEU:HD13	1.82	0.45
1:G:1145:GLY:HA2	1:G:1151:ILE:HD13	1.98	0.45
1:I:242:LEU:HD12	1:I:242:LEU:N	2.26	0.45
1:I:306:LEU:HA	1:I:307:PRO:HD3	1.76	0.45
1:I:390:GLN:NE2	1:I:489:TYR:HE2	2.14	0.45
1:I:461:ILE:HD11	1:I:491:MET:HG3	1.97	0.45
1:I:481:MET:O	1:I:485:ASN:ND2	2.49	0.45
1:I:514:THR:HG21	1:I:555:LEU:HD11	1.97	0.45
1:I:642:PHE:CE2	1:I:644:ALA:HA	2.52	0.45
1:I:1151:ILE:N	1:I:1167:PRO:HD2	2.24	0.45
1:K:364:LEU:CD1	1:K:368:MET:HE2	2.47	0.45
1:K:390:GLN:NE2	1:K:489:TYR:HE2	2.14	0.45
1:K:457:HIS:CD2	1:K:493:SER:OG	2.69	0.45
1:K:862:TYR:CZ	1:K:881:HIS:CA	2.97	0.45
1:M:221:GLU:O	1:M:224:LYS:HB3	2.17	0.45
1:M:251:LEU:HD11	1:M:262:LEU:HD13	1.99	0.45
1:M:434:ARG:CG	1:M:434:ARG:HH21	2.30	0.45
1:M:514:THR:O	1:M:514:THR:HG23	2.15	0.45
1:M:673:ALA:H	1:M:707:PHE:HE2	1.65	0.45
1:M:1063:PHE:HA	1:M:1087:THR:HG22	1.99	0.45
1:M:1200:LYS:CE	1:M:1211:GLN:CB	2.95	0.45
1:A:251:LEU:HD11	1:A:262:LEU:HD13	1.99	0.45
1:A:836:HIS:ND1	1:A:837:THR:O	2.49	0.45
1:A:1011:PHE:HE1	1:A:1018:LEU:HD13	1.82	0.45
1:A:1176:HIS:HB2	1:A:1218:THR:CB	2.38	0.45
2:B:16:GLN:OE1	2:B:16:GLN:N	2.47	0.45
1:C:251:LEU:HD22	1:C:260:ILE:HD11	1.99	0.45
1:C:434:ARG:CG	1:C:434:ARG:HH21	2.30	0.45
1:C:447:GLU:OE1	1:C:447:GLU:HA	2.16	0.45
1:C:671:PHE:HE1	1:C:692:VAL:HG11	1.81	0.45
1:C:1051:ARG:O	1:C:1058:LEU:HD12	2.16	0.45
1:C:1065:GLY:HA2	1:C:1088:VAL:HG23	1.97	0.45
1:E:136:ILE:HD13	1:E:152:ILE:HD13	1.99	0.45
1:E:270:THR:O	1:E:270:THR:OG1	2.32	0.45
1:E:390:GLN:CD	1:E:489:TYR:HE2	2.21	0.45
1:E:597:TRP:CZ2	1:E:603:ILE:CG1	2.94	0.45
1:E:835:ILE:HG12	1:E:869:THR:HA	1.99	0.45
1:E:887:GLY:O	1:E:900:SER:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:903:ASP:OD1	1:E:1175:THR:HB	2.15	0.45
1:E:1030:TRP:HD1	1:E:1037:CYS:HG	1.65	0.45
1:G:420:ASN:C	1:G:422:SER:H	2.20	0.45
1:G:642:PHE:CE2	1:G:644:ALA:HA	2.51	0.45
1:G:681:VAL:O	1:G:694:THR:HA	2.17	0.45
1:G:836:HIS:ND1	1:G:837:THR:O	2.49	0.45
1:G:999:ARG:CG	1:G:1030:TRP:CD2	3.00	0.45
1:G:1025:ALA:CB	1:G:1044:GLN:O	2.65	0.45
1:G:1065:GLY:HA2	1:G:1088:VAL:HG23	1.97	0.45
1:G:1187:PRO:HG2	1:G:1229:PHE:CB	2.42	0.45
1:I:171:HIS:CD2	1:I:171:HIS:O	2.70	0.45
1:I:384:THR:O	1:I:387:SER:CB	2.65	0.45
1:I:529:TYR:O	1:I:529:TYR:CD1	2.70	0.45
1:I:673:ALA:H	1:I:707:PHE:HE2	1.65	0.45
1:K:294:ILE:HG22	1:K:295:LEU:N	2.32	0.45
1:K:529:TYR:C	1:K:532:ILE:CG2	2.85	0.45
1:K:603:ILE:CB	1:K:1240:ILE:HG21	2.47	0.45
1:K:836:HIS:ND1	1:K:837:THR:O	2.49	0.45
1:K:1174:ALA:C	1:K:1175:THR:HG23	2.36	0.45
1:M:390:GLN:CD	1:M:489:TYR:HE2	2.21	0.45
1:M:603:ILE:CB	1:M:1240:ILE:HG21	2.47	0.45
1:M:681:VAL:O	1:M:694:THR:HA	2.17	0.45
1:M:1106:ASP:HA	1:M:1129:CYS:HB3	1.99	0.45
1:M:1198:TYR:HB2	1:M:1215:THR:H	1.82	0.45
1:A:171:HIS:CD2	1:A:171:HIS:O	2.70	0.45
1:A:753:PRO:HG3	1:A:810:GLY:HA3	1.97	0.45
1:A:835:ILE:HG12	1:A:869:THR:HA	1.99	0.45
1:A:877:ASP:OD1	1:A:878:CYS:N	2.50	0.45
1:A:1051:ARG:O	1:A:1058:LEU:HD12	2.16	0.45
1:A:1106:ASP:HA	1:A:1129:CYS:HB3	1.99	0.45
1:A:1174:ALA:C	1:A:1175:THR:HG23	2.36	0.45
1:C:246:TRP:HH2	1:C:370:ILE:HG22	1.82	0.45
1:C:496:MET:N	1:C:496:MET:SD	2.89	0.45
1:C:534:ASP:O	1:C:538:CYS:SG	2.69	0.45
1:C:835:ILE:HG12	1:C:869:THR:HA	1.99	0.45
1:C:877:ASP:OD1	1:C:878:CYS:N	2.50	0.45
1:C:920:VAL:HG12	1:C:921:MET:N	2.25	0.45
1:C:1106:ASP:HA	1:C:1129:CYS:HB3	1.99	0.45
1:E:434:ARG:CG	1:E:434:ARG:HH21	2.30	0.45
1:E:500:LEU:HD11	1:E:504:MET:SD	2.57	0.45
1:E:1106:ASP:HA	1:E:1129:CYS:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1174:ALA:O	1:E:1175:THR:HG22	2.17	0.45
1:E:1226:SER:CB	1:E:1227:PRO:HD2	2.47	0.45
1:G:514:THR:HG21	1:G:555:LEU:HD11	1.97	0.45
1:G:1048:LYS:HD3	1:G:1063:PHE:CZ	2.52	0.45
1:I:221:GLU:O	1:I:224:LYS:HB3	2.17	0.45
1:I:251:LEU:HD11	1:I:262:LEU:HD13	1.99	0.45
1:I:836:HIS:ND1	1:I:837:THR:O	2.49	0.45
1:I:999:ARG:CG	1:I:1030:TRP:CD2	3.00	0.45
1:K:926:VAL:HG11	1:K:938:LEU:O	2.16	0.45
1:K:1106:ASP:HA	1:K:1129:CYS:HB3	1.99	0.45
1:M:149:TRP:HZ2	1:M:255:ASP:HA	1.81	0.45
1:M:835:ILE:HG12	1:M:869:THR:HA	1.99	0.45
1:A:246:TRP:HH2	1:A:370:ILE:HG22	1.82	0.45
1:A:500:LEU:HD11	1:A:504:MET:SD	2.57	0.45
1:C:231:MET:HG2	1:C:258:CYS:HB2	1.98	0.45
1:C:252:LYS:CE	1:C:252:LYS:CA	2.92	0.45
1:C:866:LEU:HG	1:C:875:VAL:HB	1.98	0.45
1:C:887:GLY:O	1:C:900:SER:N	2.49	0.45
1:C:1048:LYS:HD3	1:C:1063:PHE:CZ	2.52	0.45
1:C:1175:THR:O	1:C:1176:HIS:CG	2.71	0.45
1:E:460:ILE:HD13	1:E:490:HIS:CD2	2.52	0.45
1:E:514:THR:O	1:E:514:THR:HG23	2.15	0.45
1:E:877:ASP:OD1	1:E:878:CYS:N	2.50	0.45
1:E:1187:PRO:HG2	1:E:1229:PHE:CB	2.42	0.45
1:G:1175:THR:OG1	1:G:1176:HIS:CE1	2.70	0.45
1:I:318:LYS:HD3	1:I:439:ASP:HB2	1.98	0.45
1:I:447:GLU:OE1	1:I:447:GLU:HA	2.17	0.45
1:I:1145:GLY:HA2	1:I:1151:ILE:HD13	1.98	0.45
1:K:190:GLN:OE1	1:K:190:GLN:HA	2.16	0.45
1:K:221:GLU:O	1:K:224:LYS:HB3	2.17	0.45
1:K:251:LEU:HD11	1:K:262:LEU:HD13	1.99	0.45
1:K:420:ASN:C	1:K:422:SER:H	2.20	0.45
1:K:529:TYR:O	1:K:529:TYR:CD1	2.70	0.45
1:K:681:VAL:O	1:K:694:THR:HA	2.17	0.45
1:K:1063:PHE:HA	1:K:1087:THR:HG22	1.99	0.45
1:K:1151:ILE:N	1:K:1167:PRO:HD2	2.24	0.45
1:M:190:GLN:OE1	1:M:190:GLN:HA	2.16	0.45
1:M:246:TRP:HH2	1:M:370:ILE:HG22	1.82	0.45
1:M:294:ILE:HG22	1:M:295:LEU:N	2.32	0.45
1:M:557:ARG:CG	1:M:558:GLN:N	2.79	0.45
1:A:460:ILE:HD13	1:A:490:HIS:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:556:GLY:O	1:A:557:ARG:O	2.35	0.44
1:A:816:ALA:HB2	1:A:821:ILE:HG12	1.99	0.44
1:A:1175:THR:O	1:A:1176:HIS:CD2	2.71	0.44
1:A:1182:ASP:HB3	1:A:1223:ILE:HG23	1.98	0.44
1:C:294:ILE:HG22	1:C:295:LEU:N	2.32	0.44
1:C:500:LEU:HD11	1:C:504:MET:SD	2.57	0.44
1:C:862:TYR:CE2	1:C:881:HIS:CB	2.93	0.44
1:C:903:ASP:OD1	1:C:1175:THR:HB	2.15	0.44
1:C:1030:TRP:HD1	1:C:1037:CYS:HG	1.65	0.44
1:C:1198:TYR:HB2	1:C:1215:THR:HG23	2.00	0.44
1:E:190:GLN:OE1	1:E:190:GLN:HA	2.16	0.44
1:E:251:LEU:HD22	1:E:260:ILE:HD11	1.99	0.44
1:E:251:LEU:HD11	1:E:262:LEU:HD13	1.99	0.44
1:E:639:LEU:CG	1:E:653:ILE:HD12	2.43	0.44
1:E:673:ALA:H	1:E:707:PHE:HE2	1.65	0.44
1:E:999:ARG:HA	1:E:999:ARG:HD2	1.74	0.44
1:E:1011:PHE:HE1	1:E:1018:LEU:HD13	1.82	0.44
1:E:1048:LYS:HD3	1:E:1063:PHE:CZ	2.52	0.44
1:E:1198:TYR:HB2	1:E:1215:THR:HG23	2.00	0.44
1:E:1213:PHE:O	1:E:1214:TYR:CB	2.49	0.44
1:E:1232:TYR:O	1:E:1244:LEU:HD23	2.17	0.44
1:G:461:ILE:HD11	1:G:491:MET:HG3	1.97	0.44
1:G:866:LEU:HG	1:G:875:VAL:HB	1.98	0.44
1:G:1198:TYR:HB2	1:G:1215:THR:H	1.82	0.44
1:I:445:LEU:O	1:I:449:ASN:N	2.48	0.44
1:I:845:TYR:CG	1:I:846:CYS:N	2.85	0.44
1:K:256:SER:O	1:K:257:GLN:CB	2.65	0.44
1:K:883:SER:OG	1:K:902:ASP:N	2.50	0.44
1:K:910:GLU:HG2	1:K:912:LYS:H	1.83	0.44
1:K:1032:TRP:O	1:K:1034:LEU:N	2.49	0.44
1:M:231:MET:HG2	1:M:258:CYS:HB2	1.98	0.44
1:M:910:GLU:HG2	1:M:912:LYS:H	1.83	0.44
1:M:926:VAL:HG11	1:M:938:LEU:O	2.16	0.44
1:M:1025:ALA:CB	1:M:1044:GLN:O	2.65	0.44
1:M:1166:ALA:N	1:M:1167:PRO:CD	2.78	0.44
1:M:1175:THR:O	1:M:1176:HIS:CG	2.70	0.44
1:M:1178:GLY:O	1:M:1179:TRP:CB	2.60	0.44
1:A:121:GLN:HE22	1:M:147:PRO:HG3	1.79	0.44
1:A:762:SER:OG	1:A:764:ASP:OD1	2.25	0.44
1:A:1160:GLU:O	1:A:1162:LEU:N	2.49	0.44
1:A:1174:ALA:O	1:A:1175:THR:HG22	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1175:THR:OG1	1:A:1176:HIS:CE1	2.71	0.44
1:A:1226:SER:CB	1:A:1227:PRO:HD2	2.47	0.44
1:C:171:HIS:CD2	1:C:171:HIS:O	2.70	0.44
1:C:318:LYS:HD3	1:C:439:ASP:HB2	1.98	0.44
1:C:337:ARG:HD3	1:C:341:TYR:CE2	2.52	0.44
1:C:359:TYR:HE1	1:C:361:TYR:CD1	2.32	0.44
1:C:384:THR:O	1:C:387:SER:CB	2.65	0.44
1:C:556:GLY:O	1:C:557:ARG:O	2.35	0.44
1:C:736:ARG:NH1	1:C:772:ALA:O	2.39	0.44
1:C:883:SER:OG	1:C:902:ASP:N	2.50	0.44
1:C:1063:PHE:HA	1:C:1087:THR:HG22	1.99	0.44
1:C:1175:THR:OG1	1:C:1176:HIS:CE1	2.71	0.44
1:C:1212:THR:CG2	1:C:1213:PHE:N	2.72	0.44
1:C:1226:SER:CB	1:C:1227:PRO:HD2	2.47	0.44
1:C:1232:TYR:O	1:C:1244:LEU:HD23	2.17	0.44
1:E:140:LEU:HD11	1:E:178:PHE:HE2	1.83	0.44
1:E:447:GLU:OE1	1:E:447:GLU:HA	2.17	0.44
1:E:557:ARG:CG	1:E:558:GLN:N	2.79	0.44
1:E:813:ILE:HG22	1:E:815:VAL:HG13	2.00	0.44
1:E:1225:VAL:HG11	1:E:1229:PHE:CE2	2.53	0.44
1:G:136:ILE:HD13	1:G:152:ILE:HD13	1.99	0.44
1:G:140:LEU:HD11	1:G:178:PHE:HE2	1.83	0.44
1:G:390:GLN:HB3	1:G:393:VAL:CG1	2.47	0.44
1:G:529:TYR:O	1:G:529:TYR:CD1	2.70	0.44
1:G:581:LYS:HD2	1:G:581:LYS:HA	1.68	0.44
1:G:845:TYR:HB3	1:G:858:ALA:HB3	1.98	0.44
1:G:884:TRP:CE3	1:G:884:TRP:O	2.71	0.44
1:G:1225:VAL:HG11	1:G:1229:PHE:CE2	2.53	0.44
1:I:529:TYR:C	1:I:532:ILE:CG2	2.85	0.44
1:I:910:GLU:HG2	1:I:912:LYS:H	1.82	0.44
1:K:337:ARG:HD3	1:K:341:TYR:CE2	2.52	0.44
1:K:390:GLN:CD	1:K:489:TYR:HE2	2.21	0.44
1:K:556:GLY:O	1:K:557:ARG:O	2.35	0.44
1:M:741:GLY:HA3	1:M:770:TRP:CZ2	2.53	0.44
1:M:883:SER:OG	1:M:902:ASP:N	2.50	0.44
1:M:884:TRP:CE3	1:M:884:TRP:O	2.71	0.44
1:M:1175:THR:HG1	1:M:1176:HIS:CE1	2.35	0.44
1:A:132:LEU:HD23	1:A:132:LEU:HA	1.76	0.44
1:A:190:GLN:OE1	1:A:190:GLN:HA	2.16	0.44
1:A:337:ARG:HD3	1:A:341:TYR:CE2	2.52	0.44
1:A:390:GLN:CD	1:A:489:TYR:HE2	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:ARG:CG	1:A:558:GLN:N	2.79	0.44
1:A:1048:LYS:HD3	1:A:1063:PHE:CZ	2.52	0.44
1:A:1175:THR:O	1:A:1176:HIS:CG	2.70	0.44
1:C:390:GLN:CD	1:C:489:TYR:HE2	2.21	0.44
1:C:394:LYS:CB	1:C:434:ARG:CB	2.80	0.44
1:C:642:PHE:HE2	1:C:644:ALA:HA	1.83	0.44
1:C:727:LEU:HB2	1:C:739:MET:HE1	2.00	0.44
1:C:885:VAL:HG23	1:C:887:GLY:N	2.33	0.44
1:C:1025:ALA:CB	1:C:1044:GLN:O	2.65	0.44
1:C:1182:ASP:HB3	1:C:1223:ILE:HG23	1.98	0.44
1:C:1213:PHE:HD2	1:C:1214:TYR:H	1.63	0.44
1:E:171:HIS:CD2	1:E:171:HIS:O	2.70	0.44
1:E:241:ILE:C	1:E:242:LEU:CD1	2.81	0.44
1:E:295:LEU:HD22	1:E:295:LEU:HA	1.75	0.44
1:E:530:ARG:HG2	1:E:538:CYS:SG	2.58	0.44
1:E:642:PHE:HE2	1:E:644:ALA:HA	1.83	0.44
1:E:681:VAL:O	1:E:694:THR:HA	2.17	0.44
1:E:883:SER:OG	1:E:902:ASP:N	2.50	0.44
1:E:1175:THR:O	1:E:1176:HIS:CG	2.71	0.44
1:G:171:HIS:CD2	1:G:171:HIS:O	2.70	0.44
1:G:239:LEU:HD12	1:G:240:LEU:H	1.77	0.44
1:G:246:TRP:HH2	1:G:370:ILE:HG22	1.82	0.44
1:G:390:GLN:CD	1:G:489:TYR:HE2	2.21	0.44
1:G:530:ARG:HG2	1:G:538:CYS:SG	2.58	0.44
1:G:641:VAL:HB	1:G:651:LEU:HB2	1.97	0.44
1:G:816:ALA:HB2	1:G:821:ILE:HG12	1.99	0.44
1:G:1063:PHE:HA	1:G:1087:THR:HG22	1.99	0.44
1:G:1175:THR:O	1:G:1176:HIS:CG	2.71	0.44
1:G:1176:HIS:CB	1:G:1218:THR:CG2	2.96	0.44
1:I:149:TRP:HZ2	1:I:255:ASP:HA	1.81	0.44
1:I:190:GLN:OE1	1:I:190:GLN:HA	2.16	0.44
1:I:359:TYR:HE1	1:I:361:TYR:CD1	2.32	0.44
1:I:573:THR:HA	1:I:577:TYR:CD2	2.47	0.44
1:I:603:ILE:CB	1:I:1240:ILE:HG21	2.47	0.44
1:I:813:ILE:HG22	1:I:815:VAL:HG13	2.00	0.44
1:I:1022:SER:OG	1:I:1023:ASP:N	2.48	0.44
1:I:1063:PHE:HA	1:I:1087:THR:HG22	1.99	0.44
1:I:1176:HIS:CB	1:I:1218:THR:CG2	2.96	0.44
1:K:813:ILE:HG22	1:K:815:VAL:HG13	2.00	0.44
1:K:845:TYR:CG	1:K:846:CYS:N	2.85	0.44
1:K:845:TYR:HB3	1:K:858:ALA:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:922:LEU:HD12	1:M:1241:LEU:CD2	2.39	0.44
1:M:999:ARG:CG	1:M:1030:TRP:CD2	3.00	0.44
1:M:1226:SER:CB	1:M:1227:PRO:HD2	2.47	0.44
1:A:140:LEU:HD11	1:A:178:PHE:HE2	1.83	0.44
1:A:241:ILE:C	1:A:242:LEU:CD1	2.81	0.44
1:A:529:TYR:C	1:A:532:ILE:CG2	2.85	0.44
1:A:741:GLY:HA3	1:A:770:TRP:CZ2	2.53	0.44
1:A:1181:THR:HG21	1:A:1221:LYS:CA	2.39	0.44
1:A:1198:TYR:HB2	1:A:1215:THR:H	1.82	0.44
1:C:136:ILE:HD13	1:C:152:ILE:HD13	1.99	0.44
1:C:139:LYS:HD2	1:C:278:TYR:CB	2.48	0.44
1:C:420:ASN:C	1:C:422:SER:H	2.20	0.44
1:C:681:VAL:O	1:C:694:THR:HA	2.17	0.44
1:C:766:THR:HG22	1:C:782:ASN:HA	2.00	0.44
1:C:1011:PHE:HE1	1:C:1018:LEU:HD13	1.82	0.44
1:E:529:TYR:O	1:E:529:TYR:CD1	2.70	0.44
1:E:766:THR:HG22	1:E:782:ASN:HA	2.00	0.44
1:E:1176:HIS:HB2	1:E:1218:THR:CB	2.38	0.44
1:G:244:ASP:HB3	1:G:245:VAL:H	1.51	0.44
1:G:259:GLN:H	1:G:259:GLN:HG2	1.56	0.44
1:G:447:GLU:OE1	1:G:447:GLU:HA	2.17	0.44
1:G:460:ILE:HD13	1:G:490:HIS:CD2	2.52	0.44
1:G:673:ALA:H	1:G:707:PHE:HE2	1.65	0.44
1:G:813:ILE:HG22	1:G:815:VAL:HG13	2.00	0.44
1:I:140:LEU:HD11	1:I:178:PHE:HE2	1.83	0.44
1:I:294:ILE:HG22	1:I:295:LEU:N	2.32	0.44
1:I:884:TRP:CE3	1:I:884:TRP:O	2.71	0.44
1:I:1175:THR:O	1:I:1176:HIS:CG	2.71	0.44
1:I:1213:PHE:HD2	1:I:1214:TYR:H	1.63	0.44
1:I:1220:LEU:CB	1:I:1236:ASP:HB3	2.48	0.44
1:K:618:VAL:HA	1:K:634:GLY:HA2	2.00	0.44
1:K:835:ILE:HG12	1:K:869:THR:HA	1.99	0.44
1:K:845:TYR:OH	1:K:888:VAL:O	2.25	0.44
1:K:1011:PHE:HE1	1:K:1018:LEU:HD13	1.82	0.44
1:K:1174:ALA:C	1:K:1175:THR:CG2	2.86	0.44
1:K:1208:GLU:HG3	1:K:1211:GLN:NE2	2.31	0.44
1:K:1232:TYR:O	1:K:1244:LEU:HD23	2.17	0.44
1:M:513:LYS:O	1:M:517:VAL:CB	2.62	0.44
1:M:885:VAL:HG23	1:M:887:GLY:N	2.33	0.44
1:M:920:VAL:CG1	1:M:921:MET:H	2.23	0.44
1:M:1181:THR:HG21	1:M:1221:LYS:CA	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1213:PHE:HD2	1:M:1214:TYR:H	1.63	0.44
1:A:231:MET:HG2	1:A:258:CYS:HB2	1.98	0.44
1:A:251:LEU:HD22	1:A:260:ILE:HD11	1.99	0.44
1:A:445:LEU:O	1:A:449:ASN:N	2.48	0.44
1:A:529:TYR:O	1:A:529:TYR:CD1	2.70	0.44
1:A:862:TYR:CG	1:A:862:TYR:O	2.70	0.44
1:A:885:VAL:HG23	1:A:887:GLY:N	2.33	0.44
1:A:910:GLU:HG2	1:A:912:LYS:H	1.83	0.44
1:C:529:TYR:O	1:C:529:TYR:CD1	2.70	0.44
1:C:530:ARG:HG2	1:C:538:CYS:SG	2.58	0.44
1:C:999:ARG:CG	1:C:1030:TRP:CD2	3.00	0.44
1:C:1225:VAL:HG11	1:C:1229:PHE:CE2	2.53	0.44
1:E:999:ARG:CG	1:E:1030:TRP:CD2	3.00	0.44
1:G:139:LYS:HD2	1:G:278:TYR:CB	2.48	0.44
1:G:573:THR:HA	1:G:577:TYR:CD2	2.47	0.44
1:G:597:TRP:CD1	1:G:1243:ILE:N	2.85	0.44
1:G:835:ILE:HG12	1:G:869:THR:HA	1.99	0.44
1:G:885:VAL:HG23	1:G:887:GLY:N	2.33	0.44
1:G:1220:LEU:CB	1:G:1236:ASP:HB3	2.48	0.44
1:I:155:MET:HE2	1:I:155:MET:HB2	1.90	0.44
1:I:364:LEU:HD22	1:I:364:LEU:HA	1.82	0.44
1:I:453:LEU:CD1	1:I:454:GLN:N	2.73	0.44
1:I:1032:TRP:O	1:I:1034:LEU:N	2.49	0.44
1:I:1167:PRO:HB3	1:I:1202:TRP:CG	2.45	0.44
1:I:1181:THR:HG21	1:I:1221:LYS:CA	2.39	0.44
1:I:1225:VAL:HG11	1:I:1229:PHE:CE2	2.53	0.44
1:K:741:GLY:HA3	1:K:770:TRP:CZ2	2.53	0.44
1:K:882:LEU:CB	1:K:1237:ASN:ND2	2.62	0.44
1:K:1175:THR:O	1:K:1176:HIS:CD2	2.71	0.44
1:M:140:LEU:HD11	1:M:178:PHE:HE2	1.83	0.44
1:M:529:TYR:O	1:M:529:TYR:CD1	2.70	0.44
1:M:530:ARG:HG2	1:M:538:CYS:SG	2.58	0.44
1:M:928:VAL:HG12	1:M:937:VAL:CB	2.46	0.44
1:M:1175:THR:OG1	1:M:1176:HIS:CE1	2.70	0.44
1:A:244:ASP:HB3	1:A:245:VAL:H	1.51	0.44
1:A:639:LEU:CG	1:A:653:ILE:HD12	2.43	0.44
1:A:642:PHE:HE2	1:A:644:ALA:HA	1.83	0.44
1:A:727:LEU:HB2	1:A:739:MET:HE1	2.00	0.44
1:A:923:LYS:CG	1:A:940:VAL:CG2	2.96	0.44
1:C:741:GLY:HA3	1:C:770:TRP:CZ2	2.53	0.44
1:E:147:PRO:HG3	1:G:121:GLN:HE22	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:457:HIS:CD2	1:E:493:SER:OG	2.69	0.44
1:E:884:TRP:CE3	1:E:884:TRP:O	2.71	0.44
1:E:1220:LEU:CB	1:E:1236:ASP:HB3	2.48	0.44
1:G:642:PHE:HE2	1:G:644:ALA:HA	1.83	0.44
1:G:845:TYR:CG	1:G:846:CYS:N	2.85	0.44
1:G:862:TYR:O	1:G:862:TYR:CG	2.70	0.44
1:G:877:ASP:OD1	1:G:878:CYS:N	2.50	0.44
1:G:1198:TYR:HB2	1:G:1215:THR:HG23	2.00	0.44
1:G:1216:ASN:CB	1:G:1242:TYR:OH	2.65	0.44
1:G:1226:SER:CB	1:G:1227:PRO:HD2	2.47	0.44
1:I:364:LEU:CD1	1:I:368:MET:HE2	2.45	0.44
1:I:530:ARG:HG2	1:I:538:CYS:SG	2.58	0.44
1:I:685:ASN:OD1	1:I:686:SER:N	2.51	0.44
1:I:845:TYR:HB3	1:I:858:ALA:HB3	1.98	0.44
1:I:862:TYR:HD1	1:I:885:VAL:CB	2.22	0.44
1:I:862:TYR:CG	1:I:862:TYR:O	2.70	0.44
1:I:1175:THR:O	1:I:1176:HIS:CD2	2.71	0.44
1:K:573:THR:HA	1:K:577:TYR:CD2	2.47	0.44
1:K:885:VAL:HG23	1:K:887:GLY:N	2.33	0.44
1:K:1175:THR:O	1:K:1176:HIS:CG	2.70	0.44
1:K:1175:THR:OG1	1:K:1176:HIS:CE1	2.70	0.44
1:K:1226:SER:CB	1:K:1227:PRO:HD2	2.47	0.44
1:M:337:ARG:HD3	1:M:341:TYR:CE2	2.52	0.44
1:M:473:LEU:CD1	1:M:480:CYS:HB3	2.47	0.44
1:M:877:ASP:OD1	1:M:878:CYS:N	2.50	0.44
1:M:1011:PHE:HE1	1:M:1018:LEU:HD13	1.82	0.44
1:M:1216:ASN:CB	1:M:1242:TYR:OH	2.65	0.44
1:A:212:PHE:CB	1:A:226:ARG:NH1	2.57	0.44
1:A:294:ILE:HG22	1:A:295:LEU:N	2.32	0.44
1:A:360:ASP:O	1:A:361:TYR:CD1	2.71	0.44
1:A:884:TRP:CE3	1:A:884:TRP:O	2.71	0.44
1:A:1198:TYR:HB2	1:A:1215:THR:HG23	2.00	0.44
1:A:1200:LYS:CE	1:A:1211:GLN:CB	2.95	0.44
1:A:1232:TYR:O	1:A:1244:LEU:HD23	2.17	0.44
1:A:1235:VAL:HA	1:A:1240:ILE:O	2.18	0.44
1:C:251:LEU:HD11	1:C:262:LEU:HD13	1.99	0.44
1:C:306:LEU:HA	1:C:307:PRO:HD3	1.76	0.44
1:C:813:ILE:HG22	1:C:815:VAL:HG13	2.00	0.44
1:C:1175:THR:O	1:C:1176:HIS:CD2	2.71	0.44
1:C:1220:LEU:CB	1:C:1236:ASP:HB3	2.48	0.44
1:E:866:LEU:HG	1:E:875:VAL:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:885:VAL:HG23	1:E:887:GLY:N	2.33	0.44
1:E:1198:TYR:HB2	1:E:1215:THR:H	1.82	0.44
1:G:294:ILE:HG22	1:G:295:LEU:N	2.32	0.44
1:G:659:GLU:O	1:G:659:GLU:HG3	2.18	0.44
1:G:766:THR:HG22	1:G:782:ASN:HA	2.00	0.44
1:G:923:LYS:CG	1:G:940:VAL:CG2	2.96	0.44
2:H:16:GLN:OE1	2:H:16:GLN:N	2.47	0.44
1:I:251:LEU:HD22	1:I:260:ILE:HD11	1.99	0.44
1:I:766:THR:HG22	1:I:782:ASN:HA	2.00	0.44
1:I:1048:LYS:HD3	1:I:1063:PHE:CZ	2.52	0.44
1:I:1160:GLU:O	1:I:1162:LEU:N	2.49	0.44
1:I:1198:TYR:HB2	1:I:1215:THR:H	1.82	0.44
1:K:136:ILE:HD13	1:K:152:ILE:HD13	1.99	0.44
1:K:149:TRP:HZ2	1:K:255:ASP:HA	1.81	0.44
1:K:500:LEU:HD11	1:K:504:MET:SD	2.57	0.44
1:K:1025:ALA:CB	1:K:1044:GLN:O	2.65	0.44
1:M:457:HIS:CD2	1:M:493:SER:OG	2.69	0.44
1:M:879:ARG:HB3	1:M:921:MET:HE2	1.87	0.44
1:M:1032:TRP:O	1:M:1034:LEU:N	2.49	0.44
1:M:1175:THR:O	1:M:1176:HIS:CD2	2.71	0.44
1:A:261:LEU:HD12	1:A:261:LEU:O	2.18	0.44
1:A:530:ARG:HG2	1:A:538:CYS:SG	2.58	0.44
1:A:845:TYR:CG	1:A:846:CYS:N	2.85	0.44
1:A:1216:ASN:CB	1:A:1242:TYR:OH	2.65	0.44
1:C:140:LEU:HD11	1:C:178:PHE:HE2	1.83	0.44
1:C:685:ASN:OD1	1:C:686:SER:N	2.51	0.44
1:C:866:LEU:CD2	1:C:914:VAL:HB	2.43	0.44
1:C:923:LYS:CG	1:C:940:VAL:CG2	2.96	0.44
1:C:1080:ASP:O	1:C:1081:PHE:HD1	2.01	0.44
1:C:1187:PRO:HG3	1:C:1229:PHE:HB2	1.98	0.44
1:C:1187:PRO:CD	1:C:1229:PHE:CG	3.01	0.44
1:E:140:LEU:C	1:E:140:LEU:CD1	2.86	0.44
1:E:557:ARG:HA	1:E:557:ARG:HD3	1.87	0.44
1:E:581:LYS:HA	1:E:581:LYS:HD2	1.68	0.44
1:E:805:SER:HB2	1:E:814:MET:HB3	2.00	0.44
1:E:1007:TRP:HZ3	1:E:1048:LYS:HA	1.83	0.44
1:E:1174:ALA:C	1:E:1175:THR:CG2	2.86	0.44
1:E:1176:HIS:CB	1:E:1218:THR:CG2	2.96	0.44
1:E:1187:PRO:CD	1:E:1229:PHE:CG	3.01	0.44
1:G:429:ASN:HD22	1:G:429:ASN:HA	1.66	0.44
1:G:553:HIS:CB	1:G:610:VAL:CG1	2.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1065:GLY:HA3	1:G:1086:GLY:O	2.18	0.44
1:G:1091:CYS:SG	1:G:1103:THR:HB	2.58	0.44
1:G:1166:ALA:N	1:G:1167:PRO:CD	2.78	0.44
1:G:1175:THR:O	1:G:1176:HIS:CD2	2.71	0.44
1:G:1213:PHE:HD2	1:G:1214:TYR:H	1.63	0.44
1:G:1220:LEU:CD1	1:G:1220:LEU:N	2.53	0.44
1:I:256:SER:O	1:I:257:GLN:CB	2.65	0.44
1:I:403:LEU:HD11	1:I:459:LYS:HZ2	1.83	0.44
1:I:547:PHE:O	1:I:551:ASN:ND2	2.50	0.44
1:I:564:VAL:HG13	1:I:583:GLN:CG	2.43	0.44
1:I:659:GLU:O	1:I:659:GLU:HG3	2.18	0.44
1:I:1011:PHE:HE1	1:I:1018:LEU:HD13	1.82	0.44
1:I:1025:ALA:CB	1:I:1044:GLN:O	2.65	0.44
1:I:1174:ALA:C	1:I:1175:THR:CG2	2.86	0.44
1:I:1216:ASN:CB	1:I:1242:TYR:OH	2.65	0.44
1:I:1232:TYR:O	1:I:1244:LEU:HD23	2.17	0.44
1:K:140:LEU:HD11	1:K:178:PHE:HE2	1.83	0.44
1:K:530:ARG:HG2	1:K:538:CYS:SG	2.58	0.44
1:K:639:LEU:CG	1:K:653:ILE:HD12	2.43	0.44
1:K:999:ARG:CG	1:K:1030:TRP:CD2	3.00	0.44
1:K:1220:LEU:CB	1:K:1236:ASP:HB3	2.48	0.44
1:M:136:ILE:HD13	1:M:152:ILE:HD13	1.99	0.44
1:M:155:MET:HE2	1:M:155:MET:HB2	1.90	0.44
1:M:360:ASP:O	1:M:361:TYR:CD1	2.71	0.44
1:M:947:GLN:HB3	1:M:956:ILE:HG23	2.00	0.44
1:M:1091:CYS:SG	1:M:1103:THR:HB	2.58	0.44
1:M:1149:GLY:H	1:M:1180:VAL:CG2	2.31	0.44
1:M:1235:VAL:HA	1:M:1240:ILE:O	2.18	0.44
1:A:318:LYS:HD3	1:A:439:ASP:HB2	1.98	0.44
1:A:420:ASN:C	1:A:422:SER:H	2.20	0.44
1:A:920:VAL:C	1:A:921:MET:CG	2.85	0.44
1:A:947:GLN:HB3	1:A:956:ILE:HG23	2.00	0.44
1:A:1149:GLY:H	1:A:1180:VAL:CG2	2.31	0.44
1:A:1174:ALA:C	1:A:1175:THR:CG2	2.86	0.44
1:A:1213:PHE:O	1:A:1214:TYR:CB	2.49	0.44
1:C:149:TRP:CH2	1:C:273:VAL:CG1	2.98	0.44
1:C:261:LEU:HD12	1:C:261:LEU:O	2.18	0.44
1:C:360:ASP:O	1:C:361:TYR:CD1	2.71	0.44
1:C:1091:CYS:SG	1:C:1103:THR:HB	2.58	0.44
1:E:409:GLU:HG3	1:G:340:TYR:HH	1.76	0.44
1:E:1173:ALA:O	1:E:1174:ALA:C	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1200:LYS:HA	1:E:1211:GLN:O	2.18	0.44
1:G:547:PHE:O	1:G:551:ASN:ND2	2.50	0.44
1:G:556:GLY:O	1:G:557:ARG:O	2.35	0.44
1:G:610:VAL:HG22	1:G:907:ARG:CG	2.43	0.44
1:G:622:CYS:SG	1:G:664:ALA:HA	2.58	0.44
1:G:805:SER:HB2	1:G:814:MET:HB3	2.00	0.44
1:G:922:LEU:CD1	1:G:1241:LEU:CD2	2.87	0.44
1:G:1187:PRO:HG3	1:G:1229:PHE:HB2	1.98	0.44
1:I:136:ILE:HD13	1:I:152:ILE:HD13	1.99	0.44
1:I:556:GLY:O	1:I:557:ARG:O	2.35	0.44
1:I:741:GLY:HA3	1:I:770:TRP:CZ2	2.53	0.44
1:I:862:TYR:CZ	1:I:881:HIS:CA	2.96	0.44
1:I:877:ASP:OD1	1:I:878:CYS:N	2.50	0.44
1:I:885:VAL:HG23	1:I:887:GLY:N	2.33	0.44
1:I:1046:THR:HG22	1:I:1063:PHE:CD2	2.52	0.44
1:I:1081:PHE:HE1	1:I:1117:LEU:HA	1.83	0.44
1:I:1226:SER:CB	1:I:1227:PRO:HD2	2.47	0.44
1:K:685:ASN:OD1	1:K:686:SER:N	2.51	0.44
1:K:877:ASP:OD1	1:K:878:CYS:N	2.50	0.44
1:K:1046:THR:HG22	1:K:1063:PHE:CD2	2.53	0.44
1:K:1173:ALA:O	1:K:1174:ALA:C	2.57	0.44
1:K:1176:HIS:CB	1:K:1218:THR:CG2	2.96	0.44
1:K:1233:VAL:HB	1:K:1243:ILE:HA	2.00	0.44
1:M:137:GLN:HG3	1:M:173:LEU:HD22	1.95	0.44
1:M:318:LYS:HD3	1:M:439:ASP:HB2	1.99	0.44
1:M:500:LEU:HD11	1:M:504:MET:SD	2.57	0.44
1:M:641:VAL:HB	1:M:651:LEU:HB2	1.97	0.44
1:M:1174:ALA:C	1:M:1175:THR:CG2	2.86	0.44
1:A:139:LYS:HD2	1:A:278:TYR:CB	2.48	0.43
1:A:140:LEU:C	1:A:140:LEU:CD1	2.86	0.43
1:A:363:ALA:O	1:A:366:GLU:N	2.51	0.43
1:A:1091:CYS:SG	1:A:1103:THR:HB	2.58	0.43
1:C:622:CYS:SG	1:C:664:ALA:HA	2.58	0.43
1:C:750:ARG:HH11	1:C:806:TRP:HD1	1.66	0.43
1:C:805:SER:HB2	1:C:814:MET:HB3	2.00	0.43
1:C:816:ALA:HB2	1:C:821:ILE:HG12	1.99	0.43
1:C:947:GLN:HB3	1:C:956:ILE:HG23	2.00	0.43
1:C:1216:ASN:CB	1:C:1242:TYR:OH	2.65	0.43
2:D:14:CYS:CB	5:D:201:HEM:HAB	2.43	0.43
1:E:246:TRP:HH2	1:E:370:ILE:HG22	1.82	0.43
1:E:256:SER:O	1:E:257:GLN:CB	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:294:ILE:HG22	1:E:295:LEU:N	2.32	0.43
1:E:393:VAL:CG1	1:E:486:PHE:CE2	3.01	0.43
1:E:560:PHE:HA	1:E:561:PRO:HD2	1.73	0.43
1:E:685:ASN:OD1	1:E:686:SER:N	2.51	0.43
1:E:741:GLY:HA3	1:E:770:TRP:CZ2	2.53	0.43
1:E:862:TYR:CE2	1:E:881:HIS:CA	3.01	0.43
1:E:1063:PHE:HA	1:E:1087:THR:HG22	1.99	0.43
1:E:1149:GLY:H	1:E:1180:VAL:CG2	2.31	0.43
1:G:171:HIS:HD2	1:G:171:HIS:O	2.01	0.43
1:G:473:LEU:CD1	1:G:480:CYS:HB3	2.47	0.43
1:G:560:PHE:HA	1:G:561:PRO:HD2	1.73	0.43
1:G:618:VAL:HA	1:G:634:GLY:HA2	2.00	0.43
1:G:685:ASN:OD1	1:G:686:SER:N	2.51	0.43
1:G:910:GLU:HG2	1:G:912:LYS:H	1.83	0.43
1:G:1174:ALA:C	1:G:1175:THR:CG2	2.86	0.43
1:G:1187:PRO:CD	1:G:1229:PHE:CG	3.01	0.43
1:I:171:HIS:HD2	1:I:171:HIS:O	2.01	0.43
1:I:434:ARG:CG	1:I:434:ARG:HH21	2.30	0.43
1:I:500:LEU:HD11	1:I:504:MET:SD	2.57	0.43
1:I:642:PHE:HE2	1:I:644:ALA:HA	1.83	0.43
1:I:681:VAL:O	1:I:694:THR:HA	2.17	0.43
1:I:703:ASN:HD22	1:I:746:VAL:HB	1.83	0.43
1:I:923:LYS:CG	1:I:940:VAL:CG2	2.96	0.43
1:I:1091:CYS:SG	1:I:1103:THR:HB	2.58	0.43
1:I:1139:SER:OG	1:I:1140:THR:N	2.51	0.43
1:I:1175:THR:OG1	1:I:1176:HIS:CE1	2.70	0.43
1:K:132:LEU:HA	1:K:132:LEU:HD23	1.76	0.43
1:K:318:LYS:HD3	1:K:439:ASP:HB2	1.98	0.43
1:K:866:LEU:HD22	1:K:914:VAL:HG12	1.98	0.43
1:K:1081:PHE:HE1	1:K:1117:LEU:HA	1.83	0.43
1:K:1216:ASN:CB	1:K:1242:TYR:OH	2.65	0.43
1:M:139:LYS:HD2	1:M:278:TYR:CB	2.48	0.43
1:M:460:ILE:HD13	1:M:490:HIS:CD2	2.52	0.43
1:M:618:VAL:HA	1:M:634:GLY:HA2	2.00	0.43
1:M:642:PHE:HE2	1:M:644:ALA:HA	1.83	0.43
1:M:813:ILE:HG22	1:M:815:VAL:HG13	2.00	0.43
1:M:845:TYR:CG	1:M:846:CYS:N	2.85	0.43
1:M:1198:TYR:HB2	1:M:1215:THR:HG23	2.00	0.43
1:M:1200:LYS:HA	1:M:1211:GLN:O	2.18	0.43
1:M:1232:TYR:O	1:M:1244:LEU:HD23	2.17	0.43
1:A:622:CYS:HA	1:A:889:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:685:ASN:OD1	1:A:686:SER:N	2.51	0.43
1:A:1168:LEU:HD11	1:A:1171:GLU:HB3	2.00	0.43
1:A:1187:PRO:CD	1:A:1229:PHE:CG	3.01	0.43
1:C:547:PHE:O	1:C:551:ASN:ND2	2.50	0.43
1:C:622:CYS:HA	1:C:889:MET:HE1	2.00	0.43
1:C:703:ASN:HD22	1:C:746:VAL:HB	1.84	0.43
1:C:862:TYR:CE2	1:C:881:HIS:CA	3.01	0.43
1:C:1046:THR:HG22	1:C:1063:PHE:CD2	2.53	0.43
1:C:1198:TYR:HB2	1:C:1215:THR:H	1.82	0.43
1:E:420:ASN:C	1:E:422:SER:H	2.20	0.43
1:E:553:HIS:CB	1:E:610:VAL:CG1	2.89	0.43
1:E:556:GLY:O	1:E:557:ARG:O	2.35	0.43
1:E:573:THR:HA	1:E:577:TYR:CD2	2.47	0.43
1:E:597:TRP:CH2	1:E:603:ILE:HG12	2.43	0.43
1:E:600:LYS:HG2	1:E:601:LYS:N	2.34	0.43
1:E:659:GLU:O	1:E:659:GLU:HG3	2.18	0.43
1:E:816:ALA:HB2	1:E:821:ILE:HG12	1.99	0.43
1:E:866:LEU:CD2	1:E:914:VAL:HB	2.43	0.43
1:E:947:GLN:HB3	1:E:956:ILE:HG23	2.00	0.43
1:E:1175:THR:O	1:E:1176:HIS:CD2	2.71	0.43
1:G:149:TRP:HZ2	1:G:255:ASP:HA	1.81	0.43
1:G:845:TYR:HD2	1:G:858:ALA:HB3	1.84	0.43
1:G:1200:LYS:HA	1:G:1211:GLN:O	2.18	0.43
1:G:1232:TYR:O	1:G:1244:LEU:HD23	2.17	0.43
1:I:485:ASN:CB	1:I:486:PHE:CD1	3.02	0.43
1:I:597:TRP:CD1	1:I:1243:ILE:N	2.85	0.43
1:I:1065:GLY:HA3	1:I:1086:GLY:O	2.18	0.43
1:I:1080:ASP:O	1:I:1081:PHE:HD1	2.01	0.43
1:I:1245:GLN:HE21	1:I:1245:GLN:HB3	1.59	0.43
1:K:139:LYS:HD2	1:K:278:TYR:CB	2.48	0.43
1:K:261:LEU:HD12	1:K:261:LEU:O	2.18	0.43
1:K:460:ILE:HD13	1:K:490:HIS:CD2	2.52	0.43
1:K:597:TRP:CD1	1:K:1243:ILE:N	2.85	0.43
1:K:642:PHE:HE2	1:K:644:ALA:HA	1.83	0.43
1:K:884:TRP:CE3	1:K:884:TRP:O	2.71	0.43
1:K:1080:ASP:O	1:K:1081:PHE:HD1	2.01	0.43
1:K:1149:GLY:H	1:K:1180:VAL:CG2	2.31	0.43
1:K:1176:HIS:CB	1:K:1218:THR:HG21	2.42	0.43
1:K:1200:LYS:HA	1:K:1211:GLN:O	2.18	0.43
1:M:330:LEU:HD12	1:M:330:LEU:HA	1.74	0.43
1:M:1046:THR:HG22	1:M:1063:PHE:CD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:149:TRP:CH2	1:A:273:VAL:CG1	2.98	0.43
1:A:766:THR:HG22	1:A:782:ASN:HA	2.00	0.43
1:A:1176:HIS:CB	1:A:1218:THR:CG2	2.96	0.43
1:C:171:HIS:HD2	1:C:171:HIS:O	2.01	0.43
1:C:393:VAL:CG1	1:C:486:PHE:CE2	3.01	0.43
1:C:529:TYR:C	1:C:532:ILE:CG2	2.85	0.43
1:C:845:TYR:CG	1:C:846:CYS:N	2.85	0.43
1:C:910:GLU:HG2	1:C:912:LYS:H	1.83	0.43
1:C:1149:GLY:H	1:C:1180:VAL:CG2	2.31	0.43
1:C:1176:HIS:CB	1:C:1218:THR:CG2	2.96	0.43
1:E:139:LYS:HD2	1:E:278:TYR:CB	2.48	0.43
1:E:363:ALA:O	1:E:366:GLU:N	2.51	0.43
1:E:845:TYR:HD2	1:E:858:ALA:HB3	1.83	0.43
1:E:1065:GLY:HA3	1:E:1086:GLY:O	2.18	0.43
1:E:1081:PHE:HE1	1:E:1117:LEU:HA	1.83	0.43
1:G:251:LEU:HD22	1:G:260:ILE:HD11	1.99	0.43
1:G:320:SER:O	1:G:320:SER:OG	2.36	0.43
1:G:347:ASN:O	1:G:348:LYS:HB2	2.19	0.43
1:G:485:ASN:CB	1:G:486:PHE:CD1	3.02	0.43
1:G:534:ASP:O	1:G:538:CYS:SG	2.68	0.43
1:G:600:LYS:HG2	1:G:601:LYS:N	2.34	0.43
1:G:703:ASN:HD22	1:G:746:VAL:HB	1.83	0.43
1:G:741:GLY:HA3	1:G:770:TRP:CZ2	2.53	0.43
1:G:1081:PHE:HE1	1:G:1117:LEU:HA	1.84	0.43
1:G:1201:TRP:CB	1:G:1210:SER:O	2.58	0.43
1:I:390:GLN:CD	1:I:489:TYR:HE2	2.21	0.43
1:I:641:VAL:HB	1:I:651:LEU:HB2	1.97	0.43
1:I:805:SER:HB2	1:I:814:MET:HB3	2.00	0.43
1:I:866:LEU:HD22	1:I:914:VAL:HG12	1.98	0.43
1:I:999:ARG:HD2	1:I:999:ARG:HA	1.73	0.43
1:K:251:LEU:HD22	1:K:260:ILE:HD11	1.99	0.43
1:K:485:ASN:CB	1:K:486:PHE:CD1	3.02	0.43
1:K:862:TYR:CE2	1:K:881:HIS:CA	3.01	0.43
1:K:947:GLN:HB3	1:K:956:ILE:HG23	2.00	0.43
1:K:1091:CYS:SG	1:K:1103:THR:HB	2.58	0.43
1:M:862:TYR:O	1:M:862:TYR:CG	2.70	0.43
1:M:1176:HIS:CB	1:M:1218:THR:HG21	2.42	0.43
1:M:1245:GLN:HE21	1:M:1245:GLN:HB3	1.59	0.43
1:A:750:ARG:HH11	1:A:806:TRP:HD1	1.67	0.43
1:A:999:ARG:CG	1:A:1030:TRP:CD2	3.00	0.43
1:A:1173:ALA:O	1:A:1174:ALA:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:237:ARG:HH11	1:C:237:ARG:HG2	1.84	0.43
1:C:945:ARG:HG3	1:C:964:VAL:HG13	2.01	0.43
1:C:1081:PHE:HE1	1:C:1117:LEU:HA	1.84	0.43
1:C:1235:VAL:HA	1:C:1240:ILE:O	2.18	0.43
1:E:750:ARG:HH11	1:E:806:TRP:HD1	1.67	0.43
1:E:845:TYR:CG	1:E:846:CYS:N	2.85	0.43
1:E:875:VAL:CG1	1:E:915:CYS:SG	2.94	0.43
1:E:945:ARG:HG3	1:E:964:VAL:HG13	2.01	0.43
1:E:1091:CYS:SG	1:E:1103:THR:HB	2.58	0.43
1:E:1181:THR:CG2	1:E:1221:LYS:HA	2.40	0.43
1:E:1216:ASN:CB	1:E:1242:TYR:OH	2.65	0.43
1:E:1217:GLY:C	1:E:1218:THR:CG2	2.76	0.43
1:E:1235:VAL:HA	1:E:1240:ILE:O	2.18	0.43
1:G:363:ALA:O	1:G:366:GLU:N	2.51	0.43
1:G:500:LEU:HD11	1:G:504:MET:SD	2.57	0.43
1:G:564:VAL:HG13	1:G:583:GLN:CG	2.44	0.43
1:G:1208:GLU:CG	1:G:1211:GLN:HG2	2.49	0.43
1:I:363:ALA:O	1:I:366:GLU:N	2.51	0.43
1:I:618:VAL:HA	1:I:634:GLY:HA2	2.00	0.43
1:I:750:ARG:HH11	1:I:806:TRP:HD1	1.67	0.43
1:K:237:ARG:HH11	1:K:237:ARG:HG2	1.83	0.43
1:K:659:GLU:HG3	1:K:659:GLU:O	2.18	0.43
1:K:766:THR:HG22	1:K:782:ASN:HA	2.00	0.43
1:M:251:LEU:HD22	1:M:260:ILE:HD11	1.99	0.43
1:M:363:ALA:O	1:M:366:GLU:N	2.51	0.43
1:M:703:ASN:HD22	1:M:746:VAL:HB	1.84	0.43
1:M:1044:GLN:HG2	1:M:1068:LYS:HZ2	1.83	0.43
1:M:1048:LYS:HD3	1:M:1063:PHE:CZ	2.52	0.43
1:M:1081:PHE:HE1	1:M:1117:LEU:HA	1.83	0.43
1:M:1168:LEU:HD11	1:M:1171:GLU:HB3	2.00	0.43
1:A:529:TYR:O	1:A:529:TYR:HD1	2.02	0.43
1:A:813:ILE:HG22	1:A:815:VAL:HG13	1.99	0.43
1:A:1081:PHE:HE1	1:A:1117:LEU:HA	1.84	0.43
1:A:1225:VAL:HG11	1:A:1229:PHE:CE2	2.53	0.43
1:C:363:ALA:O	1:C:366:GLU:N	2.51	0.43
1:C:529:TYR:O	1:C:529:TYR:HD1	2.02	0.43
1:C:600:LYS:HG2	1:C:601:LYS:N	2.34	0.43
1:C:884:TRP:CE3	1:C:884:TRP:O	2.71	0.43
1:C:1067:VAL:HG11	1:C:1112:TRP:CZ2	2.54	0.43
1:C:1174:ALA:C	1:C:1175:THR:CG2	2.86	0.43
1:E:212:PHE:CB	1:E:226:ARG:NH1	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:396:PRO:O	1:E:399:VAL:HG22	2.19	0.43
1:E:485:ASN:CB	1:E:486:PHE:CD1	3.02	0.43
1:E:1175:THR:OG1	1:E:1176:HIS:CE1	2.70	0.43
1:G:256:SER:O	1:G:257:GLN:CB	2.65	0.43
1:G:360:ASP:O	1:G:361:TYR:CD1	2.71	0.43
1:G:364:LEU:HD22	1:G:364:LEU:HA	1.82	0.43
1:G:862:TYR:CE2	1:G:881:HIS:CA	3.01	0.43
1:G:1046:THR:HG22	1:G:1063:PHE:CD2	2.52	0.43
1:G:1149:GLY:H	1:G:1180:VAL:CG2	2.31	0.43
1:G:1185:PHE:CE1	1:G:1192:LEU:HD12	2.39	0.43
1:I:529:TYR:O	1:I:529:TYR:HD1	2.02	0.43
1:I:600:LYS:HG2	1:I:601:LYS:N	2.34	0.43
1:I:1198:TYR:HB2	1:I:1215:THR:HG23	2.00	0.43
1:I:1233:VAL:HB	1:I:1243:ILE:HA	2.00	0.43
1:K:360:ASP:O	1:K:361:TYR:CD1	2.71	0.43
1:K:402:ILE:HG12	1:K:402:ILE:H	1.64	0.43
1:K:750:ARG:HH11	1:K:806:TRP:HD1	1.67	0.43
1:K:845:TYR:HD2	1:K:858:ALA:HB3	1.83	0.43
1:K:862:TYR:CG	1:K:862:TYR:O	2.70	0.43
1:K:945:ARG:HG3	1:K:964:VAL:HG13	2.01	0.43
1:K:1198:TYR:HB2	1:K:1215:THR:H	1.82	0.43
1:K:1225:VAL:HG11	1:K:1229:PHE:CE2	2.53	0.43
1:M:237:ARG:HH11	1:M:237:ARG:HG2	1.83	0.43
1:M:307:PRO:HD2	1:M:338:TRP:CH2	2.54	0.43
1:M:557:ARG:HA	1:M:557:ARG:HD3	1.87	0.43
1:M:862:TYR:CE2	1:M:881:HIS:CA	3.01	0.43
1:M:866:LEU:HD22	1:M:914:VAL:HG12	1.98	0.43
1:M:945:ARG:HG3	1:M:964:VAL:HG13	2.01	0.43
1:M:1233:VAL:HB	1:M:1243:ILE:HA	2.01	0.43
1:A:230:LEU:CD2	1:A:234:LYS:CG	2.85	0.43
1:A:557:ARG:HA	1:A:557:ARG:HD3	1.87	0.43
1:A:600:LYS:HG2	1:A:601:LYS:N	2.34	0.43
1:A:622:CYS:SG	1:A:664:ALA:HA	2.58	0.43
1:A:805:SER:HB2	1:A:814:MET:HB3	2.00	0.43
1:A:945:ARG:HG3	1:A:964:VAL:HG13	2.01	0.43
1:A:1220:LEU:CB	1:A:1236:ASP:HB3	2.48	0.43
1:C:1168:LEU:HD11	1:C:1171:GLU:HB3	2.00	0.43
1:E:307:PRO:HD2	1:E:338:TRP:CH2	2.54	0.43
1:E:703:ASN:HD22	1:E:746:VAL:HB	1.84	0.43
1:E:736:ARG:NH1	1:E:772:ALA:O	2.39	0.43
1:E:1067:VAL:HG11	1:E:1112:TRP:CZ2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1080:ASP:O	1:E:1081:PHE:HD1	2.01	0.43
1:G:750:ARG:HH11	1:G:806:TRP:HD1	1.67	0.43
1:G:895:SER:C	1:G:911:THR:OG1	2.57	0.43
1:I:149:TRP:CH2	1:I:273:VAL:CG1	2.98	0.43
1:I:208:GLN:H	1:I:208:GLN:HG3	1.48	0.43
1:I:212:PHE:CB	1:I:226:ARG:NH1	2.57	0.43
1:I:261:LEU:HD12	1:I:261:LEU:O	2.18	0.43
1:I:393:VAL:CG1	1:I:486:PHE:CE2	3.01	0.43
1:I:460:ILE:HD13	1:I:490:HIS:CD2	2.52	0.43
1:I:845:TYR:HD2	1:I:858:ALA:HB3	1.84	0.43
1:I:947:GLN:HB3	1:I:956:ILE:HG23	2.00	0.43
1:I:1007:TRP:HZ3	1:I:1048:LYS:HA	1.83	0.43
1:I:1149:GLY:H	1:I:1180:VAL:CG2	2.31	0.43
1:I:1200:LYS:HA	1:I:1211:GLN:O	2.18	0.43
1:K:703:ASN:HD22	1:K:746:VAL:HB	1.84	0.43
1:K:1048:LYS:HD3	1:K:1063:PHE:CZ	2.52	0.43
1:M:171:HIS:HD2	1:M:171:HIS:O	2.01	0.43
1:M:261:LEU:HD12	1:M:261:LEU:O	2.17	0.43
1:M:396:PRO:O	1:M:399:VAL:HG22	2.19	0.43
1:M:597:TRP:CD1	1:M:1243:ILE:N	2.85	0.43
1:M:685:ASN:OD1	1:M:686:SER:N	2.51	0.43
1:M:750:ARG:HH11	1:M:806:TRP:HD1	1.67	0.43
1:M:1065:GLY:HA3	1:M:1086:GLY:O	2.18	0.43
1:M:1176:HIS:CB	1:M:1218:THR:CG2	2.96	0.43
1:M:1220:LEU:CB	1:M:1236:ASP:HB3	2.48	0.43
1:M:1232:TYR:OH	1:M:1234:THR:CB	2.59	0.43
2:N:16:GLN:OE1	2:N:16:GLN:N	2.47	0.43
1:A:295:LEU:HD22	1:A:295:LEU:HA	1.75	0.43
1:A:347:ASN:O	1:A:348:LYS:HB2	2.19	0.43
1:A:393:VAL:CG1	1:A:486:PHE:CE2	3.01	0.43
1:A:429:ASN:HD22	1:A:429:ASN:HA	1.66	0.43
1:A:883:SER:O	1:A:884:TRP:O	2.37	0.43
1:A:999:ARG:HB2	1:A:1030:TRP:CE3	2.54	0.43
1:A:1007:TRP:HZ3	1:A:1048:LYS:HA	1.83	0.43
1:A:1046:THR:HG22	1:A:1063:PHE:CD2	2.53	0.43
1:C:307:PRO:HD2	1:C:338:TRP:CH2	2.54	0.43
1:C:445:LEU:O	1:C:449:ASN:N	2.48	0.43
1:C:597:TRP:CH2	1:C:603:ILE:HG12	2.43	0.43
1:C:866:LEU:O	1:C:875:VAL:N	2.44	0.43
1:C:1208:GLU:CG	1:C:1211:GLN:HG2	2.49	0.43
1:E:529:TYR:O	1:E:529:TYR:HD1	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:622:CYS:SG	1:E:664:ALA:HA	2.58	0.43
1:E:910:GLU:HG2	1:E:912:LYS:H	1.83	0.43
1:G:242:LEU:HD12	1:G:242:LEU:N	2.26	0.43
1:G:947:GLN:HB3	1:G:956:ILE:HG23	2.00	0.43
1:G:1080:ASP:O	1:G:1081:PHE:HD1	2.01	0.43
1:G:1235:VAL:HA	1:G:1240:ILE:O	2.18	0.43
1:I:347:ASN:O	1:I:348:LYS:HB2	2.19	0.43
1:I:360:ASP:O	1:I:361:TYR:CD1	2.71	0.43
1:I:835:ILE:HG12	1:I:869:THR:HA	1.99	0.43
1:I:1181:THR:HG22	1:I:1182:ASP:N	2.34	0.43
1:K:363:ALA:O	1:K:366:GLU:N	2.51	0.43
1:K:600:LYS:HG2	1:K:601:LYS:N	2.34	0.43
1:K:645:GLU:HB3	1:K:646:THR:H	1.70	0.43
1:K:895:SER:C	1:K:911:THR:OG1	2.57	0.43
1:K:923:LYS:CG	1:K:940:VAL:CG2	2.96	0.43
1:K:1067:VAL:HG11	1:K:1112:TRP:CZ2	2.54	0.43
1:K:1181:THR:CG2	1:K:1221:LYS:HA	2.40	0.43
1:K:1187:PRO:CD	1:K:1229:PHE:CG	3.01	0.43
1:K:1235:VAL:HA	1:K:1240:ILE:O	2.18	0.43
1:M:393:VAL:CG1	1:M:486:PHE:CE2	3.01	0.43
1:M:480:CYS:CA	1:M:483:TRP:HD1	2.28	0.43
1:M:568:LEU:H	1:M:568:LEU:HG	1.50	0.43
1:M:923:LYS:CG	1:M:940:VAL:CG2	2.96	0.43
1:M:1080:ASP:O	1:M:1081:PHE:HD1	2.01	0.43
1:M:1187:PRO:HG3	1:M:1229:PHE:HB2	1.98	0.43
1:A:171:HIS:HD2	1:A:171:HIS:O	2.01	0.43
1:A:237:ARG:HH11	1:A:237:ARG:HG2	1.84	0.43
1:A:862:TYR:CE2	1:A:881:HIS:CA	3.01	0.43
1:A:1065:GLY:HA3	1:A:1086:GLY:O	2.18	0.43
1:A:1187:PRO:HG3	1:A:1229:PHE:HB2	1.98	0.43
1:C:618:VAL:HA	1:C:634:GLY:HA2	2.00	0.43
1:C:1065:GLY:HA3	1:C:1086:GLY:O	2.18	0.43
1:E:360:ASP:O	1:E:361:TYR:CD1	2.71	0.43
1:E:390:GLN:HB3	1:E:393:VAL:CG1	2.47	0.43
1:E:1046:THR:HG22	1:E:1063:PHE:CD2	2.52	0.43
1:G:237:ARG:HH11	1:G:237:ARG:HG2	1.83	0.43
1:G:396:PRO:O	1:G:399:VAL:HG22	2.19	0.43
1:G:1032:TRP:O	1:G:1034:LEU:N	2.50	0.43
1:G:1067:VAL:HG11	1:G:1112:TRP:CZ2	2.54	0.43
1:G:1173:ALA:O	1:G:1174:ALA:C	2.57	0.43
1:G:1245:GLN:HE21	1:G:1245:GLN:HB3	1.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1187:PRO:CD	1:I:1229:PHE:CG	3.01	0.43
1:K:248:SER:O	1:K:249:TRP:C	2.57	0.43
1:K:393:VAL:CG1	1:K:486:PHE:CE2	3.01	0.43
1:K:563:ILE:O	1:K:567:GLY:N	2.51	0.43
1:K:564:VAL:HG13	1:K:583:GLN:CG	2.43	0.43
1:K:1198:TYR:HB2	1:K:1215:THR:HG23	2.00	0.43
1:M:883:SER:O	1:M:884:TRP:O	2.37	0.43
1:M:1160:GLU:O	1:M:1162:LEU:N	2.49	0.43
1:M:1167:PRO:HB3	1:M:1202:TRP:CG	2.45	0.43
1:A:301:MET:O	1:A:302:LYS:C	2.58	0.43
1:A:307:PRO:HD2	1:A:338:TRP:CH2	2.54	0.43
1:A:374:MET:HA	1:A:374:MET:HE3	1.99	0.43
1:A:457:HIS:CD2	1:A:493:SER:OG	2.69	0.43
1:A:484:TYR:HB2	1:A:485:ASN:HD22	1.84	0.43
1:A:547:PHE:O	1:A:551:ASN:ND2	2.50	0.43
1:A:618:VAL:HA	1:A:634:GLY:HA2	2.00	0.43
1:A:1194:SER:OG	1:A:1202:TRP:CZ3	2.70	0.43
1:C:457:HIS:CD2	1:C:493:SER:OG	2.69	0.43
1:C:923:LYS:HD3	1:C:923:LYS:HA	1.82	0.43
1:E:237:ARG:HH11	1:E:237:ARG:HG2	1.84	0.43
1:E:618:VAL:HA	1:E:634:GLY:HA2	2.00	0.43
1:G:140:LEU:C	1:G:140:LEU:CD1	2.86	0.43
1:G:866:LEU:HD22	1:G:914:VAL:HG12	1.98	0.43
1:I:622:CYS:SG	1:I:664:ALA:HA	2.58	0.43
1:I:1173:ALA:O	1:I:1174:ALA:C	2.57	0.43
1:I:1187:PRO:HG3	1:I:1229:PHE:HB2	1.98	0.43
1:I:1235:VAL:HA	1:I:1240:ILE:O	2.18	0.43
1:K:396:PRO:O	1:K:399:VAL:HG22	2.19	0.43
1:K:484:TYR:HB2	1:K:485:ASN:HD22	1.84	0.43
1:K:494:ALA:O	1:K:495:LYS:CB	2.62	0.43
1:K:622:CYS:HA	1:K:889:MET:HE1	2.01	0.43
1:K:736:ARG:NH1	1:K:772:ALA:O	2.39	0.43
1:K:1181:THR:HG22	1:K:1182:ASP:N	2.34	0.43
1:M:494:ALA:O	1:M:495:LYS:CB	2.62	0.43
1:M:572:GLU:HB3	1:M:573:THR:H	1.71	0.43
1:M:600:LYS:HG2	1:M:601:LYS:N	2.34	0.43
1:M:622:CYS:SG	1:M:664:ALA:HA	2.58	0.43
1:M:766:THR:HG22	1:M:782:ASN:HA	2.00	0.43
1:M:999:ARG:HB2	1:M:1030:TRP:CE3	2.54	0.43
1:A:262:LEU:O	1:A:262:LEU:HG	2.19	0.43
1:A:564:VAL:HG13	1:A:583:GLN:CG	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1080:ASP:O	1:A:1081:PHE:HD1	2.01	0.43
1:C:573:THR:HA	1:C:577:TYR:CD2	2.47	0.43
1:C:883:SER:O	1:C:884:TRP:O	2.37	0.43
1:C:895:SER:C	1:C:911:THR:OG1	2.57	0.43
1:C:999:ARG:HB2	1:C:1030:TRP:CE3	2.54	0.43
1:C:1139:SER:OG	1:C:1140:THR:N	2.51	0.43
1:C:1173:ALA:O	1:C:1174:ALA:C	2.57	0.43
1:E:222:GLU:OE2	1:G:204:THR:HG21	2.19	0.43
1:E:473:LEU:HD22	1:E:484:TYR:CE1	2.43	0.43
1:E:513:LYS:O	1:E:517:VAL:CB	2.62	0.43
1:E:923:LYS:CG	1:E:940:VAL:CG2	2.96	0.43
1:E:1032:TRP:O	1:E:1034:LEU:N	2.50	0.43
1:E:1187:PRO:HG3	1:E:1229:PHE:HB2	1.98	0.43
1:E:1225:VAL:CG1	1:E:1229:PHE:CE1	3.01	0.43
1:G:156:ALA:HB2	1:G:265:ARG:NH2	2.34	0.43
1:G:235:HIS:HB3	1:G:238:SER:HB3	2.01	0.43
1:G:736:ARG:NH1	1:G:772:ALA:O	2.39	0.43
1:G:945:ARG:HG3	1:G:964:VAL:HG13	2.01	0.43
1:G:970:SER:HB3	1:G:975:TYR:HB2	2.01	0.43
1:I:235:HIS:HB3	1:I:238:SER:HB3	2.01	0.43
1:I:581:LYS:HD2	1:I:581:LYS:HA	1.68	0.43
1:I:1072:ILE:O	1:I:1074:THR:N	2.52	0.43
1:K:222:GLU:OE2	1:M:204:THR:HG21	2.19	0.43
1:K:326:LEU:HD23	1:K:353:ILE:HG22	2.01	0.43
1:K:529:TYR:O	1:K:529:TYR:HD1	2.02	0.43
1:K:805:SER:HB2	1:K:814:MET:HB3	2.00	0.43
1:K:1065:GLY:HA3	1:K:1086:GLY:O	2.18	0.43
1:M:262:LEU:O	1:M:262:LEU:HG	2.19	0.43
1:M:622:CYS:HA	1:M:889:MET:HE1	2.01	0.43
1:M:1187:PRO:CD	1:M:1229:PHE:CG	3.01	0.43
1:A:485:ASN:HD22	1:A:485:ASN:H	1.67	0.42
1:A:526:PHE:HA	1:A:529:TYR:HB3	2.00	0.42
1:A:895:SER:C	1:A:911:THR:OG1	2.57	0.42
1:C:127:VAL:CG1	1:C:293:GLU:HG2	2.49	0.42
1:C:320:SER:HG	1:C:323:VAL:HB	1.84	0.42
1:C:396:PRO:O	1:C:399:VAL:HG22	2.19	0.42
1:C:557:ARG:CG	1:C:558:GLN:N	2.79	0.42
1:C:659:GLU:HG3	1:C:659:GLU:O	2.18	0.42
1:E:127:VAL:CG1	1:E:293:GLU:HG2	2.49	0.42
1:E:171:HIS:HD2	1:E:171:HIS:O	2.01	0.42
1:E:347:ASN:O	1:E:348:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1168:LEU:HD11	1:E:1171:GLU:HB3	2.00	0.42
1:G:222:GLU:OE2	1:I:204:THR:HG21	2.19	0.42
1:G:307:PRO:HD2	1:G:338:TRP:CH2	2.54	0.42
1:G:393:VAL:CG1	1:G:486:PHE:CE2	3.01	0.42
1:G:526:PHE:HA	1:G:529:TYR:HB3	2.00	0.42
1:G:529:TYR:O	1:G:529:TYR:HD1	2.02	0.42
1:G:678:ASP:OD2	1:G:680:LYS:CD	2.67	0.42
1:G:1007:TRP:HZ3	1:G:1048:LYS:HA	1.83	0.42
1:I:139:LYS:HD2	1:I:278:TYR:CB	2.48	0.42
1:I:156:ALA:HB2	1:I:265:ARG:NH2	2.34	0.42
1:I:237:ARG:HH11	1:I:237:ARG:HG2	1.83	0.42
1:I:895:SER:C	1:I:911:THR:OG1	2.57	0.42
1:I:945:ARG:HG3	1:I:964:VAL:HG13	2.01	0.42
1:I:1067:VAL:HG11	1:I:1112:TRP:CZ2	2.54	0.42
1:K:137:GLN:HG3	1:K:173:LEU:HD22	1.95	0.42
1:K:359:TYR:HE1	1:K:361:TYR:CD1	2.32	0.42
1:K:1072:ILE:O	1:K:1074:THR:N	2.52	0.42
1:M:347:ASN:O	1:M:348:LYS:HB2	2.19	0.42
1:M:485:ASN:HD22	1:M:485:ASN:H	1.67	0.42
1:M:485:ASN:CB	1:M:486:PHE:CD1	3.02	0.42
1:M:563:ILE:O	1:M:567:GLY:N	2.51	0.42
1:M:805:SER:HB2	1:M:814:MET:HB3	2.00	0.42
1:M:1225:VAL:HG11	1:M:1229:PHE:CE2	2.53	0.42
1:A:162:VAL:O	1:A:166:GLU:HB2	2.20	0.42
1:A:402:ILE:HG12	1:A:402:ILE:H	1.65	0.42
1:A:409:GLU:CG	1:C:340:TYR:CZ	3.00	0.42
1:A:485:ASN:CB	1:A:486:PHE:CD1	3.02	0.42
1:A:845:TYR:HD2	1:A:858:ALA:HB3	1.84	0.42
1:A:866:LEU:HD22	1:A:914:VAL:HG12	1.98	0.42
1:A:875:VAL:CG1	1:A:915:CYS:SG	2.94	0.42
1:C:391:LYS:H	1:C:391:LYS:HG2	1.60	0.42
1:C:1200:LYS:HA	1:C:1211:GLN:O	2.18	0.42
1:E:261:LEU:HD12	1:E:261:LEU:O	2.18	0.42
1:E:301:MET:O	1:E:302:LYS:C	2.57	0.42
1:E:1208:GLU:CG	1:E:1211:GLN:HG2	2.49	0.42
1:G:137:GLN:HG3	1:G:173:LEU:HD22	1.95	0.42
1:G:262:LEU:O	1:G:262:LEU:HG	2.19	0.42
1:G:1072:ILE:O	1:G:1074:THR:N	2.52	0.42
1:G:1212:THR:CG2	1:G:1213:PHE:H	2.12	0.42
1:I:222:GLU:OE2	1:K:204:THR:HG21	2.19	0.42
1:I:390:GLN:HB3	1:I:393:VAL:CG1	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:736:ARG:NH1	1:I:772:ALA:O	2.39	0.42
1:I:938:LEU:HD13	1:I:938:LEU:HA	1.85	0.42
1:I:1168:LEU:HD11	1:I:1171:GLU:HB3	2.00	0.42
1:K:171:HIS:HD2	1:K:171:HIS:O	2.01	0.42
1:K:307:PRO:HD2	1:K:338:TRP:CH2	2.54	0.42
1:M:394:LYS:HB3	1:M:434:ARG:CG	2.48	0.42
1:M:526:PHE:HA	1:M:529:TYR:HB3	2.00	0.42
1:M:529:TYR:O	1:M:529:TYR:HD1	2.02	0.42
1:M:1181:THR:HG22	1:M:1182:ASP:N	2.34	0.42
1:A:127:VAL:CG1	1:A:293:GLU:HG2	2.49	0.42
1:A:204:THR:HG21	1:M:222:GLU:OE2	2.19	0.42
1:A:597:TRP:CZ3	1:A:600:LYS:HA	2.54	0.42
1:A:866:LEU:CD2	1:A:914:VAL:HB	2.43	0.42
1:A:970:SER:CB	1:A:975:TYR:HB2	2.49	0.42
1:A:1032:TRP:O	1:A:1034:LEU:N	2.50	0.42
1:A:1067:VAL:HG11	1:A:1112:TRP:CZ2	2.54	0.42
1:C:485:ASN:CB	1:C:486:PHE:CD1	3.02	0.42
1:C:970:SER:CB	1:C:975:TYR:HB2	2.49	0.42
1:C:970:SER:HB3	1:C:975:TYR:HB2	2.01	0.42
1:C:1072:ILE:O	1:C:1074:THR:N	2.52	0.42
1:C:1185:PHE:CE1	1:C:1192:LEU:HD12	2.39	0.42
1:E:326:LEU:HD23	1:E:353:ILE:HG22	2.01	0.42
1:E:361:TYR:HB3	1:E:366:GLU:HG2	2.01	0.42
1:E:406:MET:O	1:E:411:VAL:CG2	2.68	0.42
1:E:484:TYR:HB2	1:E:485:ASN:HD22	1.84	0.42
1:E:578:GLN:NE2	1:E:578:GLN:C	2.73	0.42
1:G:148:GLY:C	1:G:149:TRP:HD1	2.23	0.42
1:G:261:LEU:HD12	1:G:261:LEU:O	2.18	0.42
1:G:301:MET:O	1:G:302:LYS:C	2.57	0.42
1:G:597:TRP:CZ3	1:G:600:LYS:HA	2.55	0.42
1:G:645:GLU:C	1:G:647:GLY:N	2.73	0.42
1:G:999:ARG:HB2	1:G:1030:TRP:CE3	2.54	0.42
1:G:1168:LEU:HD11	1:G:1171:GLU:HB3	2.00	0.42
1:G:1233:VAL:CB	1:G:1243:ILE:HG12	2.49	0.42
1:I:162:VAL:O	1:I:166:GLU:HB2	2.20	0.42
1:I:334:PHE:CB	1:I:337:ARG:CD	2.87	0.42
1:I:526:PHE:HA	1:I:529:TYR:HB3	2.00	0.42
1:I:920:VAL:C	1:I:921:MET:CG	2.85	0.42
1:K:148:GLY:C	1:K:149:TRP:HD1	2.23	0.42
1:K:156:ALA:HB2	1:K:265:ARG:NH2	2.34	0.42
1:K:390:GLN:HB3	1:K:393:VAL:CG1	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:622:CYS:SG	1:K:664:ALA:HA	2.58	0.42
1:K:1168:LEU:HD11	1:K:1171:GLU:HB3	2.00	0.42
1:K:1177:GLY:HA2	1:K:1197:GLY:HA3	2.01	0.42
1:M:301:MET:O	1:M:302:LYS:C	2.58	0.42
1:M:326:LEU:HD23	1:M:353:ILE:HG22	2.01	0.42
1:M:361:TYR:HB3	1:M:366:GLU:HG2	2.02	0.42
1:M:533:LEU:HB3	1:M:534:ASP:H	1.60	0.42
1:M:882:LEU:HD23	1:M:903:ASP:HB2	2.01	0.42
1:M:895:SER:C	1:M:911:THR:OG1	2.57	0.42
1:M:1007:TRP:HZ3	1:M:1048:LYS:HA	1.83	0.42
1:M:1067:VAL:HG11	1:M:1112:TRP:CZ2	2.54	0.42
1:M:1139:SER:OG	1:M:1140:THR:N	2.51	0.42
1:A:336:ASN:CB	1:M:431:LYS:HZ3	2.12	0.42
1:A:882:LEU:HD23	1:A:903:ASP:HB2	2.01	0.42
1:A:1200:LYS:HA	1:A:1211:GLN:O	2.18	0.42
1:A:1233:VAL:HB	1:A:1243:ILE:HA	2.00	0.42
1:C:222:GLU:OE2	1:E:204:THR:HG21	2.19	0.42
1:C:361:TYR:HB3	1:C:366:GLU:HG2	2.01	0.42
1:C:678:ASP:OD2	1:C:680:LYS:CD	2.67	0.42
1:C:866:LEU:HD22	1:C:914:VAL:HG12	1.98	0.42
1:C:1212:THR:OG1	1:C:1213:PHE:N	2.53	0.42
1:E:148:GLY:C	1:E:149:TRP:HD1	2.23	0.42
1:E:155:MET:HE2	1:E:155:MET:HB2	1.86	0.42
1:E:394:LYS:CB	1:E:434:ARG:CB	2.80	0.42
1:E:547:PHE:O	1:E:551:ASN:ND2	2.50	0.42
1:E:597:TRP:CZ3	1:E:600:LYS:HA	2.54	0.42
1:E:866:LEU:HD22	1:E:914:VAL:HG12	1.98	0.42
1:E:1233:VAL:CB	1:E:1243:ILE:HG12	2.49	0.42
1:G:127:VAL:CG1	1:G:293:GLU:HG2	2.49	0.42
1:G:1181:THR:HG22	1:G:1182:ASP:N	2.34	0.42
1:I:326:LEU:HD23	1:I:353:ILE:HG22	2.01	0.42
1:I:603:ILE:CD1	1:I:1242:TYR:CE1	3.00	0.42
1:I:970:SER:HB3	1:I:975:TYR:HB2	2.01	0.42
1:K:235:HIS:HB3	1:K:238:SER:HB3	2.01	0.42
1:K:882:LEU:HD23	1:K:903:ASP:HB2	2.01	0.42
1:K:1007:TRP:HZ3	1:K:1048:LYS:HA	1.83	0.42
1:K:1181:THR:HG21	1:K:1221:LYS:CA	2.39	0.42
1:M:713:HIS:ND1	1:M:755:ASP:OD2	2.53	0.42
1:M:1072:ILE:O	1:M:1074:THR:N	2.52	0.42
1:A:148:GLY:C	1:A:149:TRP:HD1	2.23	0.42
1:A:396:PRO:O	1:A:399:VAL:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:970:SER:HB3	1:A:975:TYR:HB2	2.01	0.42
1:A:1139:SER:OG	1:A:1140:THR:N	2.51	0.42
1:C:148:GLY:C	1:C:149:TRP:HD1	2.23	0.42
1:C:156:ALA:HB2	1:C:265:ARG:NH2	2.34	0.42
1:C:322:LEU:HG	1:C:359:TYR:HE2	1.85	0.42
1:C:347:ASN:O	1:C:348:LYS:HB2	2.19	0.42
1:C:485:ASN:HD22	1:C:485:ASN:H	1.67	0.42
1:C:1007:TRP:HZ3	1:C:1048:LYS:HA	1.83	0.42
1:C:1245:GLN:HE21	1:C:1245:GLN:HB3	1.59	0.42
1:E:156:ALA:HB2	1:E:265:ARG:NH2	2.34	0.42
1:E:248:SER:O	1:E:249:TRP:C	2.57	0.42
1:E:394:LYS:HB3	1:E:434:ARG:CG	2.48	0.42
1:E:645:GLU:C	1:E:647:GLY:N	2.73	0.42
1:E:970:SER:CB	1:E:975:TYR:HB2	2.49	0.42
1:E:1139:SER:OG	1:E:1140:THR:N	2.51	0.42
1:G:146:GLU:C	1:G:147:PRO:O	2.58	0.42
1:G:206:LEU:CD2	1:G:235:HIS:CD2	3.03	0.42
1:G:270:THR:O	1:G:270:THR:OG1	2.32	0.42
1:G:416:GLN:CA	1:G:416:GLN:HE21	2.32	0.42
1:I:262:LEU:O	1:I:262:LEU:HG	2.19	0.42
1:I:416:GLN:CA	1:I:416:GLN:HE21	2.32	0.42
1:I:595:LEU:HD13	1:I:1244:LEU:CD1	2.50	0.42
1:I:645:GLU:C	1:I:647:GLY:N	2.73	0.42
1:I:862:TYR:CE2	1:I:881:HIS:CA	3.01	0.42
1:I:999:ARG:HB2	1:I:1030:TRP:CE3	2.54	0.42
2:J:16:GLN:OE1	2:J:16:GLN:N	2.47	0.42
1:K:320:SER:HG	1:K:323:VAL:HB	1.85	0.42
1:K:543:ASN:CG	1:K:574:SER:HB2	2.38	0.42
1:K:560:PHE:HA	1:K:561:PRO:HD2	1.73	0.42
1:K:595:LEU:HD13	1:K:1244:LEU:CD1	2.50	0.42
1:K:678:ASP:OD2	1:K:680:LYS:CD	2.67	0.42
1:K:852:ASN:HB2	1:K:854:LEU:HG	2.02	0.42
1:K:883:SER:O	1:K:884:TRP:O	2.37	0.42
1:M:597:TRP:CZ3	1:M:600:LYS:CB	3.02	0.42
1:M:678:ASP:OD2	1:M:680:LYS:CD	2.67	0.42
1:M:852:ASN:HB2	1:M:854:LEU:HG	2.02	0.42
1:M:1173:ALA:O	1:M:1174:ALA:C	2.57	0.42
1:A:156:ALA:HB2	1:A:265:ARG:NH2	2.34	0.42
1:A:391:LYS:H	1:A:391:LYS:HG2	1.60	0.42
1:A:534:ASP:O	1:A:538:CYS:SG	2.69	0.42
1:A:641:VAL:HB	1:A:651:LEU:HB2	1.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1181:THR:HG22	1:A:1182:ASP:N	2.34	0.42
1:A:1233:VAL:O	1:A:1233:VAL:CG2	2.68	0.42
1:C:406:MET:O	1:C:411:VAL:CG2	2.68	0.42
1:C:669:ASP:O	1:C:686:SER:OG	2.27	0.42
1:C:862:TYR:CG	1:C:862:TYR:O	2.70	0.42
1:C:882:LEU:HD23	1:C:903:ASP:HB2	2.01	0.42
1:C:1228:ASP:CB	1:C:1230:LYS:HG2	2.37	0.42
1:E:111:ARG:HG2	1:E:111:ARG:H	1.63	0.42
1:E:235:HIS:HB3	1:E:238:SER:HB3	2.01	0.42
1:E:320:SER:O	1:E:320:SER:OG	2.36	0.42
1:E:480:CYS:CA	1:E:483:TRP:HD1	2.28	0.42
1:E:526:PHE:HA	1:E:529:TYR:HB3	2.00	0.42
1:E:641:VAL:HB	1:E:651:LEU:HB2	1.97	0.42
1:E:1072:ILE:O	1:E:1074:THR:N	2.52	0.42
1:G:162:VAL:O	1:G:166:GLU:HB2	2.20	0.42
1:G:330:LEU:HA	1:G:330:LEU:HD12	1.74	0.42
1:G:402:ILE:HG12	1:G:402:ILE:H	1.65	0.42
1:G:484:TYR:HB2	1:G:485:ASN:HD22	1.84	0.42
1:G:1056:SER:O	1:G:1072:ILE:N	2.31	0.42
1:G:1176:HIS:CB	1:G:1218:THR:CB	2.98	0.42
1:I:563:ILE:O	1:I:567:GLY:N	2.51	0.42
1:I:1176:HIS:CB	1:I:1218:THR:HG21	2.42	0.42
1:K:206:LEU:CD2	1:K:235:HIS:CD2	3.03	0.42
1:K:389:LEU:HD21	1:K:395:VAL:HG21	2.02	0.42
1:K:597:TRP:CZ2	1:K:603:ILE:CG1	2.94	0.42
1:K:597:TRP:CZ3	1:K:600:LYS:CB	3.02	0.42
1:K:999:ARG:HB2	1:K:1030:TRP:CE3	2.54	0.42
1:M:603:ILE:CD1	1:M:1242:TYR:CE1	3.00	0.42
1:M:639:LEU:H	1:M:653:ILE:HG22	1.79	0.42
1:M:659:GLU:HG3	1:M:659:GLU:O	2.18	0.42
1:M:786:PHE:CE1	1:M:819:ASN:HB2	2.55	0.42
1:M:970:SER:CB	1:M:975:TYR:HB2	2.49	0.42
1:A:361:TYR:HB3	1:A:366:GLU:HG2	2.01	0.42
1:A:390:GLN:HB3	1:A:393:VAL:CG1	2.47	0.42
1:A:595:LEU:HD13	1:A:1244:LEU:CG	2.50	0.42
1:A:597:TRP:CZ3	1:A:600:LYS:CB	3.02	0.42
1:A:713:HIS:ND1	1:A:755:ASP:OD2	2.53	0.42
1:C:301:MET:O	1:C:302:LYS:C	2.58	0.42
1:C:326:LEU:HD23	1:C:353:ILE:HG22	2.01	0.42
1:C:416:GLN:CA	1:C:416:GLN:HE21	2.32	0.42
1:C:429:ASN:HD22	1:C:429:ASN:HA	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:578:GLN:NE2	1:C:578:GLN:C	2.73	0.42
1:C:845:TYR:HD2	1:C:858:ALA:HB3	1.84	0.42
1:E:230:LEU:CD2	1:E:234:LYS:CG	2.85	0.42
1:E:416:GLN:CA	1:E:416:GLN:HE21	2.32	0.42
1:E:713:HIS:ND1	1:E:755:ASP:OD2	2.53	0.42
1:G:320:SER:HG	1:G:323:VAL:HB	1.85	0.42
1:G:406:MET:O	1:G:411:VAL:CG2	2.68	0.42
1:G:595:LEU:HD13	1:G:1244:LEU:CG	2.50	0.42
1:G:645:GLU:C	1:G:647:GLY:H	2.23	0.42
1:G:970:SER:CB	1:G:975:TYR:HB2	2.50	0.42
1:I:307:PRO:HD2	1:I:338:TRP:CH2	2.54	0.42
1:I:389:LEU:HD21	1:I:395:VAL:HG21	2.02	0.42
1:I:496:MET:CE	1:I:496:MET:CA	2.98	0.42
1:I:560:PHE:HA	1:I:561:PRO:HD2	1.73	0.42
1:I:713:HIS:ND1	1:I:755:ASP:OD2	2.53	0.42
1:I:786:PHE:CE1	1:I:819:ASN:HB2	2.55	0.42
1:I:970:SER:CB	1:I:975:TYR:HB2	2.49	0.42
1:I:1060:SER:HG	1:I:1070:TRP:HD1	1.65	0.42
1:K:245:VAL:C	1:K:246:TRP:HD1	2.23	0.42
1:K:526:PHE:HA	1:K:529:TYR:HB3	2.00	0.42
1:K:645:GLU:C	1:K:647:GLY:N	2.73	0.42
1:K:786:PHE:CE1	1:K:819:ASN:HB2	2.55	0.42
1:K:1163:HIS:HB3	1:K:1205:VAL:HG13	2.02	0.42
1:M:245:VAL:C	1:M:246:TRP:HD1	2.23	0.42
1:M:389:LEU:HD21	1:M:395:VAL:HG21	2.02	0.42
1:M:416:GLN:CA	1:M:416:GLN:HE21	2.32	0.42
1:M:1233:VAL:O	1:M:1233:VAL:CG2	2.68	0.42
1:A:146:GLU:C	1:A:147:PRO:O	2.58	0.42
1:A:320:SER:OG	1:A:323:VAL:HG23	2.20	0.42
1:A:322:LEU:HG	1:A:359:TYR:HE2	1.85	0.42
1:A:389:LEU:HD21	1:A:395:VAL:HG21	2.02	0.42
1:A:480:CYS:CA	1:A:483:TRP:HD1	2.28	0.42
1:A:703:ASN:HD22	1:A:746:VAL:HB	1.84	0.42
1:C:320:SER:OG	1:C:323:VAL:HG23	2.20	0.42
1:C:493:SER:O	1:C:495:LYS:HG3	2.20	0.42
1:C:597:TRP:CZ3	1:C:600:LYS:CB	3.02	0.42
1:C:645:GLU:C	1:C:647:GLY:N	2.73	0.42
1:C:852:ASN:HB2	1:C:854:LEU:HG	2.02	0.42
1:E:146:GLU:C	1:E:147:PRO:O	2.58	0.42
1:E:260:ILE:O	1:E:260:ILE:HG12	2.20	0.42
1:E:320:SER:OG	1:E:323:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:639:LEU:H	1:E:653:ILE:HG22	1.79	0.42
1:E:882:LEU:HD23	1:E:903:ASP:HB2	2.01	0.42
1:E:970:SER:HB3	1:E:975:TYR:HB2	2.01	0.42
1:G:132:LEU:HD23	1:G:132:LEU:HA	1.76	0.42
1:G:327:ILE:HD13	1:G:327:ILE:HA	1.82	0.42
1:G:920:VAL:C	1:G:921:MET:CG	2.85	0.42
1:G:1160:GLU:O	1:G:1162:LEU:N	2.49	0.42
1:G:1233:VAL:HB	1:G:1243:ILE:HA	2.00	0.42
1:I:146:GLU:C	1:I:147:PRO:O	2.58	0.42
1:I:396:PRO:O	1:I:399:VAL:HG22	2.19	0.42
1:I:678:ASP:OD2	1:I:680:LYS:CD	2.67	0.42
1:I:852:ASN:HB2	1:I:854:LEU:HG	2.02	0.42
1:I:1212:THR:OG1	1:I:1213:PHE:N	2.53	0.42
1:K:713:HIS:ND1	1:K:755:ASP:OD2	2.53	0.42
1:K:970:SER:CB	1:K:975:TYR:HB2	2.49	0.42
1:K:1212:THR:OG1	1:K:1213:PHE:N	2.53	0.42
1:M:148:GLY:C	1:M:149:TRP:HD1	2.23	0.42
1:M:505:PHE:CE2	1:M:575:GLU:OE1	2.55	0.42
1:M:1163:HIS:HB3	1:M:1205:VAL:HG13	2.02	0.42
1:M:1177:GLY:HA2	1:M:1197:GLY:HA3	2.01	0.42
1:M:1182:ASP:HB3	1:M:1223:ILE:HG23	1.98	0.42
1:A:160:LYS:CB	1:A:160:LYS:HZ2	2.33	0.42
1:A:485:ASN:HB3	1:A:486:PHE:CE1	2.55	0.42
1:A:578:GLN:NE2	1:A:578:GLN:C	2.73	0.42
1:A:595:LEU:HD13	1:A:1244:LEU:CD1	2.50	0.42
1:A:1212:THR:OG1	1:A:1213:PHE:N	2.53	0.42
1:C:162:VAL:O	1:C:166:GLU:HB2	2.20	0.42
1:C:364:LEU:HA	1:C:364:LEU:HD22	1.82	0.42
1:C:526:PHE:HA	1:C:529:TYR:HB3	2.00	0.42
1:C:713:HIS:ND1	1:C:755:ASP:OD2	2.53	0.42
1:C:1032:TRP:O	1:C:1034:LEU:N	2.50	0.42
1:C:1181:THR:CG2	1:C:1221:LYS:HA	2.40	0.42
1:C:1233:VAL:CB	1:C:1243:ILE:HG12	2.49	0.42
1:E:174:LEU:O	1:E:178:PHE:HB2	2.20	0.42
1:E:259:GLN:H	1:E:259:GLN:HG2	1.56	0.42
1:E:403:LEU:HD11	1:E:459:LYS:HZ2	1.84	0.42
1:E:595:LEU:HD13	1:E:1244:LEU:CD1	2.50	0.42
1:E:597:TRP:CZ3	1:E:600:LYS:CB	3.02	0.42
1:E:622:CYS:HA	1:E:889:MET:HE1	2.02	0.42
1:E:678:ASP:OD2	1:E:680:LYS:CD	2.68	0.42
1:E:883:SER:O	1:E:884:TRP:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1212:THR:OG1	1:E:1213:PHE:N	2.53	0.42
1:E:1233:VAL:HB	1:E:1243:ILE:HA	2.00	0.42
1:G:160:LYS:HZ2	1:G:160:LYS:HB2	1.85	0.42
1:G:452:GLN:O	1:G:456:LEU:HG	2.19	0.42
1:G:493:SER:O	1:G:495:LYS:HG3	2.20	0.42
1:G:582:LEU:C	1:G:582:LEU:CD2	2.88	0.42
1:G:882:LEU:HD23	1:G:903:ASP:HB2	2.01	0.42
1:G:1030:TRP:HA	1:G:1036:LYS:O	2.20	0.42
2:H:14:CYS:CB	5:H:201:HEM:CAB	2.96	0.42
1:I:127:VAL:CG1	1:I:293:GLU:HG2	2.50	0.42
1:I:130:LYS:HE2	1:I:130:LYS:HB2	1.74	0.42
1:I:301:MET:O	1:I:302:LYS:C	2.58	0.42
1:I:493:SER:O	1:I:495:LYS:HG3	2.20	0.42
1:K:162:VAL:O	1:K:166:GLU:HB2	2.20	0.42
1:K:496:MET:CE	1:K:496:MET:CA	2.98	0.42
1:K:920:VAL:C	1:K:921:MET:CG	2.85	0.42
1:K:1233:VAL:O	1:K:1233:VAL:CG2	2.68	0.42
1:M:162:VAL:O	1:M:166:GLU:HB2	2.20	0.42
1:M:206:LEU:CD2	1:M:235:HIS:CD2	3.03	0.42
1:M:322:LEU:HG	1:M:359:TYR:HE2	1.85	0.42
1:M:484:TYR:HB2	1:M:485:ASN:HD22	1.84	0.42
1:M:1030:TRP:HA	1:M:1036:LYS:O	2.20	0.42
1:M:1140:THR:OG1	1:M:1155:ASN:OD1	2.31	0.42
1:M:1225:VAL:HG11	1:M:1229:PHE:CG	2.55	0.42
1:A:507:LEU:CD1	1:A:579:GLN:CG	2.98	0.42
1:A:595:LEU:CD2	1:A:1201:TRP:HH2	2.33	0.42
1:A:852:ASN:HB2	1:A:854:LEU:HG	2.02	0.42
1:A:1177:GLY:HA2	1:A:1197:GLY:HA3	2.01	0.42
1:C:179:PRO:CG	1:C:237:ARG:HH11	2.17	0.42
1:C:452:GLN:O	1:C:456:LEU:HG	2.20	0.42
1:C:507:LEU:CD1	1:C:579:GLN:CG	2.98	0.42
1:C:597:TRP:CZ3	1:C:600:LYS:HA	2.54	0.42
1:C:641:VAL:HB	1:C:651:LEU:HB2	1.97	0.42
1:C:1126:HIS:CD2	1:C:1128:GLY:H	2.38	0.42
1:C:1233:VAL:HB	1:C:1243:ILE:HA	2.00	0.42
1:E:320:SER:HG	1:E:323:VAL:HB	1.84	0.42
1:E:452:GLN:O	1:E:456:LEU:HG	2.20	0.42
1:E:852:ASN:HB2	1:E:854:LEU:HG	2.02	0.42
1:E:1140:THR:OG1	1:E:1155:ASN:OD1	2.31	0.42
1:E:1181:THR:HG22	1:E:1182:ASP:N	2.34	0.42
2:F:52:ASN:OD1	5:F:201:HEM:HBD1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:212:PHE:CB	1:G:226:ARG:NH1	2.57	0.42
1:G:326:LEU:HD23	1:G:353:ILE:HG22	2.01	0.42
1:G:496:MET:CE	1:G:496:MET:CA	2.98	0.42
1:G:603:ILE:CD1	1:G:1242:TYR:CE1	3.00	0.42
1:G:866:LEU:CD2	1:G:914:VAL:HB	2.43	0.42
1:G:1139:SER:OG	1:G:1140:THR:N	2.51	0.42
1:G:1212:THR:OG1	1:G:1213:PHE:N	2.53	0.42
1:G:1220:LEU:HD23	1:G:1234:THR:HG21	2.01	0.42
1:I:239:LEU:HD12	1:I:240:LEU:H	1.76	0.42
1:I:320:SER:HG	1:I:323:VAL:HB	1.84	0.42
1:I:882:LEU:HD23	1:I:903:ASP:HB2	2.01	0.42
1:I:978:PHE:CZ	1:I:986:GLU:HB2	2.55	0.42
1:I:1233:VAL:CB	1:I:1243:ILE:HG12	2.49	0.42
1:K:174:LEU:O	1:K:178:PHE:HB2	2.20	0.42
1:K:306:LEU:HA	1:K:307:PRO:HD3	1.76	0.42
1:K:406:MET:O	1:K:411:VAL:CG2	2.68	0.42
1:K:970:SER:HB3	1:K:975:TYR:HB2	2.01	0.42
1:K:978:PHE:CZ	1:K:986:GLU:HB2	2.55	0.42
1:K:1187:PRO:HG3	1:K:1229:PHE:HB2	1.98	0.42
1:K:1225:VAL:HG11	1:K:1229:PHE:CG	2.55	0.42
2:L:16:GLN:OE1	2:L:16:GLN:N	2.47	0.42
2:L:18:HIS:NE2	5:L:201:HEM:C4C	2.88	0.42
1:M:390:GLN:HB3	1:M:393:VAL:CG1	2.47	0.42
1:A:206:LEU:CD2	1:A:235:HIS:CD2	3.03	0.41
1:A:245:VAL:C	1:A:246:TRP:HD1	2.23	0.41
1:A:248:SER:O	1:A:249:TRP:C	2.57	0.41
1:A:553:HIS:CG	1:A:554:LEU:N	2.88	0.41
1:A:678:ASP:OD2	1:A:680:LYS:CD	2.67	0.41
1:A:1166:ALA:N	1:A:1167:PRO:CD	2.78	0.41
1:A:1176:HIS:CB	1:A:1218:THR:CB	2.98	0.41
2:B:14:CYS:CB	5:B:201:HEM:CAB	2.96	0.41
1:C:174:LEU:O	1:C:178:PHE:HB2	2.20	0.41
1:C:480:CYS:CA	1:C:483:TRP:HD1	2.28	0.41
1:C:1181:THR:HG22	1:C:1182:ASP:N	2.34	0.41
1:E:162:VAL:O	1:E:166:GLU:HB2	2.20	0.41
1:E:582:LEU:C	1:E:582:LEU:CD2	2.88	0.41
1:E:895:SER:C	1:E:911:THR:OG1	2.57	0.41
2:F:18:HIS:NE2	5:F:201:HEM:C4C	2.88	0.41
1:G:174:LEU:O	1:G:178:PHE:HB2	2.20	0.41
1:G:322:LEU:HG	1:G:359:TYR:HE2	1.85	0.41
1:G:597:TRP:CZ3	1:G:600:LYS:CB	3.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1200:LYS:HG3	1:G:1211:GLN:HA	2.01	0.41
2:H:10:PHE:CD1	2:H:14:CYS:HB2	2.55	0.41
1:I:179:PRO:CG	1:I:237:ARG:HH11	2.17	0.41
1:I:244:ASP:OD1	1:I:246:TRP:NE1	2.50	0.41
1:I:279:VAL:O	1:I:279:VAL:HG23	2.20	0.41
1:I:505:PHE:CE2	1:I:575:GLU:OE1	2.55	0.41
1:I:597:TRP:CZ3	1:I:600:LYS:CB	3.02	0.41
1:I:922:LEU:HD12	1:I:1241:LEU:CD2	2.39	0.41
1:I:1163:HIS:HB3	1:I:1205:VAL:HG13	2.02	0.41
1:I:1220:LEU:HD23	1:I:1234:THR:HG21	2.01	0.41
1:K:146:GLU:C	1:K:147:PRO:O	2.58	0.41
1:K:452:GLN:O	1:K:456:LEU:HG	2.19	0.41
1:K:485:ASN:HD22	1:K:485:ASN:H	1.67	0.41
1:K:485:ASN:HB3	1:K:486:PHE:CE1	2.55	0.41
2:L:18:HIS:CE1	2:L:30:PRO:CD	3.00	0.41
1:M:156:ALA:HB2	1:M:265:ARG:NH2	2.34	0.41
1:M:248:SER:O	1:M:249:TRP:C	2.57	0.41
1:M:845:TYR:HD2	1:M:858:ALA:HB3	1.84	0.41
1:M:970:SER:HB3	1:M:975:TYR:HB2	2.01	0.41
1:A:306:LEU:HA	1:A:307:PRO:HD3	1.76	0.41
1:A:320:SER:HG	1:A:323:VAL:HB	1.84	0.41
1:A:645:GLU:C	1:A:647:GLY:N	2.73	0.41
1:A:659:GLU:HG3	1:A:659:GLU:O	2.18	0.41
1:A:970:SER:HA	1:A:1011:PHE:CD2	2.55	0.41
1:A:1176:HIS:CB	1:A:1218:THR:HG21	2.42	0.41
1:C:389:LEU:HD21	1:C:395:VAL:HG21	2.02	0.41
1:C:390:GLN:HB3	1:C:393:VAL:CG1	2.47	0.41
1:C:786:PHE:CE1	1:C:819:ASN:HB2	2.55	0.41
2:D:52:ASN:OD1	5:D:201:HEM:HBD1	2.20	0.41
1:E:262:LEU:O	1:E:262:LEU:HG	2.19	0.41
1:E:786:PHE:CE1	1:E:819:ASN:HB2	2.55	0.41
1:G:260:ILE:O	1:G:260:ILE:HG12	2.20	0.41
1:G:261:LEU:C	1:G:261:LEU:CD1	2.85	0.41
1:G:389:LEU:HD21	1:G:395:VAL:HG21	2.02	0.41
1:G:431:LYS:HZ1	1:I:336:ASN:CB	2.29	0.41
1:G:713:HIS:ND1	1:G:755:ASP:OD2	2.53	0.41
1:G:852:ASN:HB2	1:G:854:LEU:HG	2.02	0.41
1:G:1111:ILE:O	1:G:1120:LEU:N	2.54	0.41
2:H:18:HIS:NE2	5:H:201:HEM:C4C	2.88	0.41
2:H:52:ASN:OD1	5:H:201:HEM:HBD1	2.20	0.41
1:I:148:GLY:C	1:I:149:TRP:HD1	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:452:GLN:O	1:I:456:LEU:HG	2.19	0.41
1:I:484:TYR:HB2	1:I:485:ASN:HD22	1.84	0.41
2:J:10:PHE:CD1	2:J:14:CYS:HB2	2.55	0.41
1:K:130:LYS:HB2	1:K:130:LYS:HE2	1.74	0.41
1:K:262:LEU:O	1:K:262:LEU:HG	2.19	0.41
1:K:320:SER:OG	1:K:323:VAL:HG23	2.20	0.41
1:K:597:TRP:CZ3	1:K:600:LYS:HA	2.55	0.41
1:M:127:VAL:CG1	1:M:293:GLU:HG2	2.50	0.41
1:M:235:HIS:HB3	1:M:238:SER:HB3	2.01	0.41
1:M:582:LEU:C	1:M:582:LEU:CD2	2.88	0.41
1:M:970:SER:HA	1:M:1011:PHE:CD2	2.55	0.41
1:A:326:LEU:HD23	1:A:353:ILE:HG22	2.01	0.41
1:A:330:LEU:HD12	1:A:330:LEU:HA	1.74	0.41
1:A:406:MET:O	1:A:411:VAL:CG2	2.68	0.41
1:A:473:LEU:CD1	1:A:480:CYS:HB3	2.47	0.41
1:A:493:SER:O	1:A:495:LYS:HG3	2.20	0.41
1:A:563:ILE:O	1:A:567:GLY:N	2.51	0.41
1:A:786:PHE:CE1	1:A:819:ASN:HB2	2.55	0.41
1:A:1056:SER:O	1:A:1072:ILE:N	2.32	0.41
1:A:1126:HIS:CD2	1:A:1128:GLY:H	2.38	0.41
1:A:1163:HIS:HB3	1:A:1205:VAL:HG13	2.02	0.41
1:A:1220:LEU:HD23	1:A:1234:THR:HG21	2.01	0.41
1:C:140:LEU:C	1:C:140:LEU:CD1	2.86	0.41
1:C:279:VAL:O	1:C:279:VAL:HG23	2.20	0.41
1:C:326:LEU:CD2	1:C:353:ILE:HB	2.51	0.41
1:C:581:LYS:HA	1:C:581:LYS:HD2	1.68	0.41
1:C:970:SER:HA	1:C:1011:PHE:CD2	2.55	0.41
1:C:1225:VAL:CG1	1:C:1229:PHE:CE1	3.01	0.41
1:E:212:PHE:HD1	1:E:212:PHE:HA	1.79	0.41
1:E:507:LEU:CD1	1:E:579:GLN:CG	2.98	0.41
1:E:595:LEU:HD13	1:E:1244:LEU:CG	2.50	0.41
1:E:999:ARG:HB2	1:E:1030:TRP:CE3	2.54	0.41
1:E:1030:TRP:HA	1:E:1036:LYS:O	2.20	0.41
1:E:1111:ILE:O	1:E:1120:LEU:N	2.54	0.41
1:E:1177:GLY:HA2	1:E:1197:GLY:HA3	2.01	0.41
1:E:1201:TRP:CB	1:E:1210:SER:O	2.58	0.41
1:E:1247:LEU:HD12	1:E:1248:GLU:OE1	2.21	0.41
1:G:394:LYS:HB3	1:G:434:ARG:CG	2.48	0.41
1:G:485:ASN:HD22	1:G:485:ASN:H	1.67	0.41
1:G:978:PHE:CZ	1:G:986:GLU:HB2	2.55	0.41
1:G:1164:LEU:H	1:G:1164:LEU:CD1	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1233:VAL:O	1:G:1233:VAL:CG2	2.68	0.41
1:I:245:VAL:C	1:I:246:TRP:HD1	2.23	0.41
1:I:485:ASN:HB3	1:I:486:PHE:CE1	2.55	0.41
1:I:1113:SER:N	1:I:1120:LEU:HD13	2.35	0.41
1:I:1176:HIS:CB	1:I:1218:THR:CB	2.98	0.41
2:J:52:ASN:OD1	5:J:201:HEM:HBD1	2.20	0.41
1:K:127:VAL:CG1	1:K:293:GLU:HG2	2.50	0.41
1:K:155:MET:HE2	1:K:155:MET:HB2	1.86	0.41
1:K:645:GLU:C	1:K:647:GLY:H	2.23	0.41
1:K:1182:ASP:HB3	1:K:1223:ILE:HG23	1.98	0.41
1:M:140:LEU:C	1:M:140:LEU:CD1	2.86	0.41
1:M:452:GLN:O	1:M:456:LEU:HG	2.19	0.41
1:M:485:ASN:HB3	1:M:486:PHE:CE1	2.55	0.41
1:M:507:LEU:CD1	1:M:579:GLN:CG	2.98	0.41
1:M:922:LEU:CD1	1:M:1241:LEU:CD2	2.87	0.41
1:M:1176:HIS:HB2	1:M:1218:THR:CB	2.38	0.41
1:M:1200:LYS:HG3	1:M:1211:GLN:HA	2.01	0.41
1:A:473:LEU:HD22	1:A:484:TYR:CE1	2.43	0.41
1:A:645:GLU:C	1:A:647:GLY:H	2.23	0.41
1:A:1225:VAL:HG11	1:A:1229:PHE:CG	2.55	0.41
1:C:146:GLU:C	1:C:147:PRO:O	2.58	0.41
1:C:262:LEU:O	1:C:262:LEU:HG	2.19	0.41
1:C:394:LYS:HB3	1:C:434:ARG:CG	2.48	0.41
1:C:403:LEU:HD11	1:C:459:LYS:HZ2	1.85	0.41
1:C:484:TYR:HB2	1:C:485:ASN:HD22	1.84	0.41
1:C:507:LEU:HD11	1:C:579:GLN:HG2	2.03	0.41
1:C:645:GLU:C	1:C:647:GLY:H	2.23	0.41
1:C:1220:LEU:HD23	1:C:1234:THR:HG21	2.01	0.41
1:E:485:ASN:HD22	1:E:485:ASN:H	1.67	0.41
1:E:645:GLU:C	1:E:647:GLY:H	2.23	0.41
1:E:923:LYS:HA	1:E:923:LYS:HD3	1.82	0.41
1:E:1200:LYS:HG3	1:E:1211:GLN:HA	2.01	0.41
1:E:1245:GLN:HE21	1:E:1245:GLN:HB3	1.59	0.41
1:G:245:VAL:C	1:G:246:TRP:HD1	2.23	0.41
1:G:553:HIS:CG	1:G:554:LEU:N	2.88	0.41
1:G:595:LEU:HD13	1:G:1244:LEU:CD1	2.50	0.41
1:I:140:LEU:C	1:I:140:LEU:CD1	2.86	0.41
1:I:206:LEU:CD2	1:I:235:HIS:CD2	3.03	0.41
1:I:406:MET:O	1:I:411:VAL:CG2	2.68	0.41
1:I:457:HIS:CB	1:I:493:SER:HB2	2.44	0.41
1:I:543:ASN:CG	1:I:574:SER:HB2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:645:GLU:C	1:I:647:GLY:H	2.23	0.41
1:I:1200:LYS:HG3	1:I:1211:GLN:HA	2.01	0.41
1:I:1208:GLU:CG	1:I:1211:GLN:HG2	2.49	0.41
1:K:230:LEU:CD2	1:K:234:LYS:CG	2.85	0.41
1:K:301:MET:O	1:K:302:LYS:C	2.58	0.41
1:K:403:LEU:HD11	1:K:459:LYS:HZ2	1.86	0.41
1:K:595:LEU:CD2	1:K:1201:TRP:HH2	2.33	0.41
1:K:595:LEU:HD13	1:K:1244:LEU:CG	2.50	0.41
1:K:923:LYS:HD3	1:K:923:LYS:HA	1.82	0.41
1:K:970:SER:HA	1:K:1011:PHE:CD2	2.55	0.41
1:K:1139:SER:OG	1:K:1140:THR:N	2.51	0.41
1:K:1232:TYR:OH	1:K:1234:THR:CB	2.59	0.41
1:K:1247:LEU:HD12	1:K:1248:GLU:OE1	2.21	0.41
1:M:317:CYS:C	1:M:318:LYS:CG	2.85	0.41
1:M:320:SER:OG	1:M:323:VAL:HG23	2.20	0.41
1:M:364:LEU:HA	1:M:364:LEU:HD22	1.82	0.41
1:M:406:MET:O	1:M:411:VAL:CG2	2.68	0.41
1:M:645:GLU:C	1:M:647:GLY:H	2.23	0.41
1:M:866:LEU:O	1:M:875:VAL:N	2.44	0.41
1:A:429:ASN:O	1:A:432:SER:O	2.39	0.41
1:A:452:GLN:O	1:A:456:LEU:HG	2.20	0.41
1:A:582:LEU:C	1:A:582:LEU:CD2	2.88	0.41
1:A:1030:TRP:HA	1:A:1036:LYS:O	2.20	0.41
1:C:248:SER:O	1:C:249:TRP:C	2.57	0.41
1:C:474:SER:HB2	1:C:475:PRO:HD2	2.03	0.41
1:E:279:VAL:O	1:E:279:VAL:HG23	2.20	0.41
1:E:485:ASN:HB3	1:E:486:PHE:CE1	2.55	0.41
1:E:978:PHE:CZ	1:E:986:GLU:HB2	2.55	0.41
1:G:361:TYR:HB3	1:G:366:GLU:HG2	2.02	0.41
1:G:485:ASN:HB3	1:G:486:PHE:CE1	2.55	0.41
1:G:568:LEU:H	1:G:568:LEU:HG	1.50	0.41
1:G:578:GLN:NE2	1:G:578:GLN:C	2.73	0.41
1:G:595:LEU:CD2	1:G:1201:TRP:HH2	2.33	0.41
1:G:883:SER:O	1:G:884:TRP:O	2.37	0.41
1:G:1177:GLY:HA2	1:G:1197:GLY:HA3	2.01	0.41
1:I:174:LEU:O	1:I:178:PHE:HB2	2.20	0.41
1:I:320:SER:OG	1:I:323:VAL:HG23	2.20	0.41
1:I:582:LEU:C	1:I:582:LEU:CD2	2.88	0.41
1:I:595:LEU:CD2	1:I:1244:LEU:CD1	2.48	0.41
1:I:883:SER:O	1:I:884:TRP:O	2.37	0.41
1:I:910:GLU:HB3	1:I:913:LYS:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1225:VAL:HG11	1:I:1229:PHE:CG	2.55	0.41
1:K:361:TYR:HB3	1:K:366:GLU:HG2	2.02	0.41
1:K:416:GLN:CA	1:K:416:GLN:HE21	2.32	0.41
1:K:578:GLN:NE2	1:K:578:GLN:C	2.73	0.41
1:K:639:LEU:CD1	1:K:641:VAL:HG23	2.51	0.41
1:K:938:LEU:HD13	1:K:938:LEU:HA	1.85	0.41
1:K:1200:LYS:HG3	1:K:1211:GLN:HA	2.01	0.41
1:M:320:SER:HG	1:M:323:VAL:HB	1.85	0.41
1:M:364:LEU:CD1	1:M:368:MET:HE2	2.50	0.41
1:M:457:HIS:CB	1:M:493:SER:HB2	2.44	0.41
1:M:493:SER:O	1:M:495:LYS:HG3	2.20	0.41
1:M:639:LEU:CD1	1:M:641:VAL:HG23	2.51	0.41
1:M:645:GLU:C	1:M:647:GLY:N	2.73	0.41
1:M:1176:HIS:CB	1:M:1218:THR:CB	2.98	0.41
1:M:1247:LEU:HD12	1:M:1248:GLU:OE1	2.21	0.41
2:N:18:HIS:NE2	5:N:201:HEM:C4C	2.88	0.41
1:A:195:LEU:HD12	1:A:195:LEU:C	2.36	0.41
1:A:222:GLU:OE2	1:C:204:THR:HG21	2.19	0.41
1:A:235:HIS:HB3	1:A:238:SER:HB3	2.01	0.41
1:A:270:THR:O	1:A:270:THR:OG1	2.32	0.41
1:A:858:ALA:HB2	1:A:864:VAL:HG22	2.03	0.41
1:A:1093:ILE:O	1:A:1093:ILE:HG13	2.21	0.41
2:B:10:PHE:CD1	2:B:14:CYS:HB2	2.55	0.41
2:B:18:HIS:NE2	5:B:201:HEM:C4C	2.88	0.41
1:C:235:HIS:HB3	1:C:238:SER:HB3	2.01	0.41
1:C:485:ASN:HB3	1:C:486:PHE:CE1	2.55	0.41
1:C:1093:ILE:O	1:C:1093:ILE:HG13	2.21	0.41
1:E:149:TRP:CH2	1:E:273:VAL:CG1	2.98	0.41
1:E:326:LEU:CD2	1:E:353:ILE:HB	2.51	0.41
1:E:441:GLN:O	1:E:445:LEU:HG	2.21	0.41
1:E:862:TYR:O	1:E:862:TYR:CG	2.70	0.41
1:E:920:VAL:C	1:E:921:MET:CG	2.85	0.41
1:E:1126:HIS:CD2	1:E:1128:GLY:H	2.38	0.41
1:E:1213:PHE:HD2	1:E:1214:TYR:H	1.63	0.41
1:E:1233:VAL:O	1:E:1233:VAL:CG2	2.68	0.41
1:G:507:LEU:HD11	1:G:579:GLN:HG2	2.03	0.41
1:G:938:LEU:HA	1:G:938:LEU:HD13	1.85	0.41
5:H:201:HEM:CBC	5:H:201:HEM:CMC	2.88	0.41
1:I:195:LEU:HD12	1:I:195:LEU:C	2.36	0.41
1:I:244:ASP:HB3	1:I:245:VAL:H	1.51	0.41
1:I:441:GLN:O	1:I:445:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:752:SER:HB2	1:I:753:PRO:HD2	2.03	0.41
1:I:1126:HIS:CD2	1:I:1128:GLY:H	2.38	0.41
2:J:18:HIS:NE2	5:J:201:HEM:C4C	2.88	0.41
1:K:457:HIS:CB	1:K:493:SER:HB2	2.44	0.41
1:K:493:SER:O	1:K:495:LYS:HG3	2.20	0.41
1:K:1030:TRP:HA	1:K:1036:LYS:O	2.20	0.41
1:K:1220:LEU:HD23	1:K:1234:THR:HG21	2.01	0.41
1:M:496:MET:CE	1:M:496:MET:CA	2.98	0.41
1:M:578:GLN:NE2	1:M:578:GLN:C	2.73	0.41
1:M:978:PHE:CZ	1:M:986:GLU:HB2	2.55	0.41
2:N:10:PHE:CD1	2:N:14:CYS:HB2	2.55	0.41
1:A:137:GLN:HG3	1:A:173:LEU:HD22	1.95	0.41
1:A:174:LEU:O	1:A:178:PHE:HB2	2.20	0.41
1:A:326:LEU:CD2	1:A:353:ILE:HB	2.51	0.41
1:A:474:SER:HB2	1:A:475:PRO:HD2	2.03	0.41
1:A:603:ILE:CD1	1:A:1242:TYR:CE1	3.00	0.41
1:A:1200:LYS:HG3	1:A:1211:GLN:HA	2.01	0.41
1:C:260:ILE:O	1:C:260:ILE:HG12	2.20	0.41
1:C:473:LEU:CD1	1:C:480:CYS:HB3	2.47	0.41
1:C:1030:TRP:HA	1:C:1036:LYS:O	2.20	0.41
1:C:1111:ILE:O	1:C:1120:LEU:N	2.54	0.41
1:C:1176:HIS:CB	1:C:1218:THR:CB	2.98	0.41
1:C:1200:LYS:HG3	1:C:1211:GLN:HA	2.01	0.41
1:E:245:VAL:C	1:E:246:TRP:HD1	2.23	0.41
1:E:322:LEU:HG	1:E:359:TYR:HE2	1.85	0.41
1:E:473:LEU:CD1	1:E:480:CYS:HB3	2.47	0.41
1:E:724:PHE:CE1	1:E:740:PHE:HB3	2.56	0.41
1:E:939:ALA:O	1:E:946:LEU:HB2	2.21	0.41
1:E:1225:VAL:HG11	1:E:1229:PHE:CG	2.55	0.41
1:G:279:VAL:O	1:G:279:VAL:HG23	2.20	0.41
1:G:295:LEU:HD22	1:G:295:LEU:HA	1.75	0.41
1:G:320:SER:OG	1:G:323:VAL:HG23	2.20	0.41
1:G:752:SER:HB2	1:G:753:PRO:HD2	2.03	0.41
1:G:1163:HIS:HB3	1:G:1205:VAL:HG13	2.02	0.41
1:I:431:LYS:HZ3	1:K:336:ASN:CB	2.12	0.41
1:I:507:LEU:CD1	1:I:579:GLN:CG	2.98	0.41
1:I:578:GLN:NE2	1:I:578:GLN:C	2.73	0.41
1:I:595:LEU:CD2	1:I:1201:TRP:HH2	2.33	0.41
1:I:1233:VAL:O	1:I:1233:VAL:CG2	2.68	0.41
1:I:1247:LEU:HD12	1:I:1248:GLU:OE1	2.21	0.41
1:K:322:LEU:HG	1:K:359:TYR:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:347:ASN:O	1:K:348:LYS:HB2	2.19	0.41
1:K:582:LEU:C	1:K:582:LEU:CD2	2.88	0.41
1:K:815:VAL:O	1:K:821:ILE:HG23	2.21	0.41
1:K:1126:HIS:CD2	1:K:1128:GLY:H	2.38	0.41
1:K:1233:VAL:CB	1:K:1243:ILE:HG12	2.49	0.41
1:M:242:LEU:HD12	1:M:242:LEU:N	2.26	0.41
1:M:595:LEU:HD13	1:M:1244:LEU:CD1	2.50	0.41
1:M:1233:VAL:CB	1:M:1243:ILE:HG12	2.49	0.41
1:A:246:TRP:HE3	1:A:374:MET:HG2	1.86	0.41
1:A:375:LEU:H	1:A:375:LEU:HG	1.69	0.41
1:A:416:GLN:CA	1:A:416:GLN:HE21	2.32	0.41
1:A:441:GLN:O	1:A:445:LEU:HG	2.21	0.41
1:A:513:LYS:O	1:A:517:VAL:CB	2.62	0.41
1:A:724:PHE:CE1	1:A:740:PHE:HB3	2.56	0.41
1:A:750:ARG:HB2	1:A:806:TRP:HE1	1.85	0.41
1:A:818:LYS:O	1:A:843:ILE:HG13	2.21	0.41
1:A:1072:ILE:O	1:A:1074:THR:N	2.52	0.41
1:A:1228:ASP:CB	1:A:1230:LYS:HG2	2.37	0.41
1:C:295:LEU:HA	1:C:295:LEU:HD22	1.75	0.41
1:C:407:GLU:H	1:C:407:GLU:HG2	1.47	0.41
1:C:409:GLU:CG	1:E:340:TYR:CZ	3.00	0.41
1:C:513:LYS:O	1:C:517:VAL:CB	2.62	0.41
1:C:582:LEU:C	1:C:582:LEU:CD2	2.88	0.41
1:C:584:ALA:O	1:C:588:VAL:CG2	2.36	0.41
1:C:595:LEU:CD2	1:C:1201:TRP:HH2	2.33	0.41
1:C:910:GLU:HB3	1:C:913:LYS:HG3	2.02	0.41
1:C:924:GLN:H	1:C:1238:LEU:HD21	1.86	0.41
1:C:939:ALA:O	1:C:946:LEU:HB2	2.21	0.41
1:C:1225:VAL:HG11	1:C:1229:PHE:CG	2.55	0.41
2:D:10:PHE:CD1	2:D:14:CYS:HB2	2.55	0.41
1:E:146:GLU:OE1	1:E:146:GLU:HA	2.21	0.41
1:E:206:LEU:CD2	1:E:235:HIS:CD2	3.03	0.41
1:E:327:ILE:HD13	1:E:327:ILE:HA	1.82	0.41
1:E:474:SER:HB2	1:E:475:PRO:HD2	2.02	0.41
1:E:553:HIS:CG	1:E:554:LEU:N	2.88	0.41
1:E:750:ARG:HB2	1:E:806:TRP:HE1	1.85	0.41
1:E:815:VAL:O	1:E:821:ILE:HG23	2.21	0.41
1:E:970:SER:HA	1:E:1011:PHE:CD2	2.55	0.41
1:E:1093:ILE:O	1:E:1093:ILE:HG13	2.21	0.41
2:F:10:PHE:CD1	2:F:14:CYS:HB2	2.55	0.41
1:G:246:TRP:HE3	1:G:374:MET:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:543:ASN:CB	1:G:576:VAL:HG23	2.51	0.41
1:G:724:PHE:CE1	1:G:740:PHE:HB3	2.56	0.41
1:G:858:ALA:HB2	1:G:864:VAL:HG22	2.03	0.41
1:G:910:GLU:HB3	1:G:913:LYS:HG3	2.02	0.41
1:G:939:ALA:O	1:G:946:LEU:HB2	2.21	0.41
1:I:543:ASN:CB	1:I:576:VAL:HG23	2.51	0.41
1:I:815:VAL:O	1:I:821:ILE:HG23	2.21	0.41
1:I:970:SER:HA	1:I:1011:PHE:CD2	2.55	0.41
1:I:1056:SER:O	1:I:1072:ILE:N	2.31	0.41
1:I:1111:ILE:O	1:I:1120:LEU:N	2.54	0.41
1:K:500:LEU:HD23	1:K:533:LEU:HD12	2.00	0.41
1:K:1160:GLU:O	1:K:1162:LEU:N	2.49	0.41
1:K:1217:GLY:HA3	1:K:1236:ASP:O	2.21	0.41
2:L:10:PHE:CD1	2:L:14:CYS:HB2	2.55	0.41
1:M:244:ASP:HB3	1:M:245:VAL:H	1.51	0.41
1:M:295:LEU:HD22	1:M:295:LEU:HA	1.75	0.41
1:M:529:TYR:CA	1:M:532:ILE:CG2	2.98	0.41
1:M:724:PHE:CE1	1:M:740:PHE:HB3	2.56	0.41
1:M:924:GLN:H	1:M:1238:LEU:HD21	1.86	0.41
1:M:997:GLN:HB3	1:M:1030:TRP:HH2	1.86	0.41
1:M:1217:GLY:HA3	1:M:1236:ASP:O	2.21	0.41
1:M:1228:ASP:CB	1:M:1230:LYS:HG2	2.37	0.41
1:A:140:LEU:HD12	1:A:173:LEU:HD11	2.03	0.41
1:A:146:GLU:OE1	1:A:146:GLU:HA	2.21	0.41
1:A:494:ALA:O	1:A:495:LYS:CB	2.62	0.41
1:A:529:TYR:CA	1:A:532:ILE:CG2	2.98	0.41
1:A:543:ASN:CB	1:A:576:VAL:HG23	2.51	0.41
1:A:560:PHE:HA	1:A:561:PRO:HD2	1.73	0.41
1:A:581:LYS:HD2	1:A:581:LYS:HA	1.68	0.41
1:A:639:LEU:CD1	1:A:641:VAL:HG23	2.51	0.41
1:A:939:ALA:O	1:A:946:LEU:HB2	2.21	0.41
1:C:146:GLU:OE1	1:C:146:GLU:HA	2.21	0.41
1:C:155:MET:HE2	1:C:155:MET:HB2	1.91	0.41
1:C:179:PRO:HD3	1:C:237:ARG:HH12	1.84	0.41
1:C:206:LEU:CD2	1:C:235:HIS:CD2	3.03	0.41
1:C:429:ASN:O	1:C:432:SER:O	2.39	0.41
1:C:441:GLN:O	1:C:445:LEU:HG	2.21	0.41
1:C:529:TYR:CA	1:C:532:ILE:CG2	2.98	0.41
1:C:543:ASN:CB	1:C:576:VAL:HG23	2.51	0.41
1:C:595:LEU:CD2	1:C:1244:LEU:CD1	2.48	0.41
1:C:595:LEU:HD13	1:C:1244:LEU:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:724:PHE:CE1	1:C:740:PHE:HB3	2.56	0.41
1:C:750:ARG:HB2	1:C:806:TRP:HE1	1.85	0.41
1:C:815:VAL:O	1:C:821:ILE:HG23	2.21	0.41
1:C:868:ASN:HB2	1:C:875:VAL:HG23	2.03	0.41
1:C:1163:HIS:HB3	1:C:1205:VAL:HG13	2.02	0.41
1:E:140:LEU:HD12	1:E:173:LEU:HD11	2.03	0.41
1:E:429:ASN:O	1:E:432:SER:O	2.39	0.41
1:E:516:LEU:HA	1:E:516:LEU:HD12	1.83	0.41
1:E:543:ASN:CB	1:E:576:VAL:HG23	2.51	0.41
1:E:858:ALA:HB2	1:E:864:VAL:HG22	2.03	0.41
1:E:868:ASN:HB2	1:E:875:VAL:HG23	2.03	0.41
1:E:1163:HIS:HB3	1:E:1205:VAL:HG13	2.02	0.41
1:E:1220:LEU:HD23	1:E:1234:THR:HG21	2.01	0.41
1:G:146:GLU:OE1	1:G:146:GLU:HA	2.21	0.41
1:G:209:ASP:O	1:G:210:GLU:HB2	2.21	0.41
1:G:248:SER:O	1:G:249:TRP:C	2.57	0.41
1:G:529:TYR:CA	1:G:532:ILE:CG2	2.98	0.41
1:G:603:ILE:O	1:G:604:THR:HB	2.21	0.41
1:G:622:CYS:HA	1:G:889:MET:HE1	2.03	0.41
1:G:786:PHE:CE1	1:G:819:ASN:HB2	2.55	0.41
1:G:815:VAL:O	1:G:821:ILE:HG23	2.21	0.41
1:G:868:ASN:HB2	1:G:875:VAL:HG23	2.03	0.41
1:I:230:LEU:CD2	1:I:234:LYS:CG	2.85	0.41
1:I:259:GLN:H	1:I:259:GLN:HG2	1.56	0.41
1:I:322:LEU:HG	1:I:359:TYR:HE2	1.85	0.41
1:I:420:ASN:C	1:I:422:SER:N	2.74	0.41
1:I:485:ASN:HD22	1:I:485:ASN:H	1.66	0.41
1:I:494:ALA:O	1:I:495:LYS:CB	2.62	0.41
1:I:507:LEU:HD12	1:I:579:GLN:HG2	2.03	0.41
1:I:507:LEU:HD11	1:I:579:GLN:HG2	2.03	0.41
1:I:551:ASN:OD1	1:I:555:LEU:HG	2.21	0.41
1:I:603:ILE:O	1:I:604:THR:HB	2.21	0.41
1:I:622:CYS:HA	1:I:889:MET:HE1	2.03	0.41
1:I:724:PHE:CE1	1:I:740:PHE:HB3	2.56	0.41
1:I:1030:TRP:HA	1:I:1036:LYS:O	2.20	0.41
1:I:1177:GLY:HA2	1:I:1197:GLY:HA3	2.01	0.41
1:I:1217:GLY:HA3	1:I:1236:ASP:O	2.21	0.41
1:K:260:ILE:O	1:K:260:ILE:HG12	2.20	0.41
1:K:427:ASP:HB2	1:K:434:ARG:O	2.21	0.41
1:K:529:TYR:CA	1:K:532:ILE:CG2	2.98	0.41
1:K:584:ALA:O	1:K:588:VAL:CG2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:875:VAL:CG1	1:K:915:CYS:SG	2.94	0.41
2:L:52:ASN:OD1	5:L:201:HEM:HBD1	2.20	0.41
1:M:146:GLU:C	1:M:147:PRO:O	2.58	0.41
1:M:149:TRP:CH2	1:M:273:VAL:CG1	2.98	0.41
1:M:174:LEU:O	1:M:178:PHE:HB2	2.20	0.41
1:M:420:ASN:C	1:M:422:SER:N	2.74	0.41
1:M:429:ASN:O	1:M:432:SER:O	2.39	0.41
1:M:434:ARG:HG3	1:M:434:ARG:HH21	1.86	0.41
1:M:549:SER:OG	1:M:608:ARG:O	2.37	0.41
1:M:553:HIS:CG	1:M:554:LEU:N	2.88	0.41
1:M:750:ARG:HB2	1:M:806:TRP:HE1	1.85	0.41
1:M:920:VAL:C	1:M:921:MET:CG	2.85	0.41
1:M:1093:ILE:O	1:M:1093:ILE:HG13	2.21	0.41
1:M:1111:ILE:O	1:M:1120:LEU:N	2.54	0.41
1:A:155:MET:HE2	1:A:155:MET:HB2	1.84	0.41
1:A:209:ASP:O	1:A:210:GLU:HB2	2.21	0.41
1:A:294:ILE:HG21	1:A:324:VAL:HG12	2.00	0.41
1:A:449:ASN:HD22	1:A:449:ASN:HA	1.65	0.41
1:A:1233:VAL:CB	1:A:1243:ILE:HG12	2.49	0.41
2:B:52:ASN:OD1	5:B:201:HEM:HBD1	2.20	0.41
1:C:139:LYS:O	1:C:142:LYS:HB3	2.21	0.41
1:C:140:LEU:HD12	1:C:173:LEU:HD11	2.03	0.41
1:C:245:VAL:C	1:C:246:TRP:HD1	2.23	0.41
1:C:612:ARG:HD3	1:C:614:HIS:O	2.21	0.41
1:C:821:ILE:HD11	1:C:857:VAL:HG21	2.03	0.41
1:C:978:PHE:CZ	1:C:986:GLU:HB2	2.55	0.41
1:C:1177:GLY:HA2	1:C:1197:GLY:HA3	2.01	0.41
1:C:1200:LYS:HG3	1:C:1211:GLN:HB2	2.03	0.41
1:C:1247:LEU:HD12	1:C:1248:GLU:OE1	2.21	0.41
1:E:139:LYS:O	1:E:142:LYS:HB3	2.21	0.41
1:E:179:PRO:HD3	1:E:237:ARG:HH12	1.84	0.41
1:E:389:LEU:HD21	1:E:395:VAL:HG21	2.02	0.41
1:E:434:ARG:HG3	1:E:434:ARG:HH21	1.86	0.41
1:E:493:SER:O	1:E:495:LYS:HG3	2.20	0.41
1:E:752:SER:HB2	1:E:753:PRO:HD2	2.03	0.41
1:E:818:LYS:O	1:E:843:ILE:HG13	2.21	0.41
1:G:391:LYS:H	1:G:391:LYS:HG2	1.60	0.41
1:G:507:LEU:HD12	1:G:579:GLN:HG2	2.03	0.41
1:G:970:SER:HA	1:G:1011:PHE:CD2	2.55	0.41
1:G:1089:LEU:H	1:G:1105:ALA:HB2	1.86	0.41
1:G:1126:HIS:CD2	1:G:1128:GLY:H	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1225:VAL:HG11	1:G:1229:PHE:CG	2.55	0.41
1:I:260:ILE:O	1:I:260:ILE:HG12	2.20	0.41
1:I:326:LEU:CD2	1:I:353:ILE:HB	2.51	0.41
1:I:361:TYR:HB3	1:I:366:GLU:HG2	2.02	0.41
1:I:427:ASP:HB2	1:I:434:ARG:O	2.21	0.41
1:I:553:HIS:CG	1:I:554:LEU:N	2.88	0.41
1:I:639:LEU:CD1	1:I:641:VAL:HG23	2.51	0.41
2:J:14:CYS:CB	5:J:201:HEM:CAB	2.96	0.41
1:K:137:GLN:HE21	1:K:173:LEU:HD22	1.86	0.41
1:K:279:VAL:HG23	1:K:279:VAL:O	2.20	0.41
1:K:441:GLN:O	1:K:445:LEU:HG	2.21	0.41
1:K:474:SER:HB2	1:K:475:PRO:HD2	2.02	0.41
1:K:505:PHE:CE2	1:K:575:GLU:OE1	2.55	0.41
1:K:543:ASN:CB	1:K:576:VAL:HG23	2.51	0.41
1:K:752:SER:HB2	1:K:753:PRO:HD2	2.03	0.41
1:K:910:GLU:HB3	1:K:913:LYS:HG3	2.02	0.41
1:M:146:GLU:OE1	1:M:146:GLU:HA	2.21	0.41
1:M:246:TRP:HE3	1:M:374:MET:HG2	1.86	0.41
1:M:500:LEU:HD23	1:M:533:LEU:HD12	2.00	0.41
1:M:818:LYS:O	1:M:843:ILE:HG13	2.21	0.41
1:M:858:ALA:HB2	1:M:864:VAL:HG22	2.03	0.41
1:M:1220:LEU:HD23	1:M:1234:THR:HG21	2.01	0.41
1:A:149:TRP:CZ3	1:A:251:LEU:HB3	2.56	0.40
1:A:434:ARG:HG3	1:A:434:ARG:HH21	1.86	0.40
1:A:639:LEU:H	1:A:653:ILE:HG22	1.79	0.40
1:A:978:PHE:CZ	1:A:986:GLU:HB2	2.55	0.40
1:A:1247:LEU:HD12	1:A:1248:GLU:OE1	2.21	0.40
1:C:270:THR:O	1:C:270:THR:OG1	2.32	0.40
1:C:651:LEU:HD22	1:C:651:LEU:HA	1.79	0.40
1:C:1113:SER:N	1:C:1120:LEU:HD13	2.35	0.40
2:D:18:HIS:NE2	5:D:201:HEM:C4C	2.88	0.40
1:E:551:ASN:OD1	1:E:555:LEU:HG	2.21	0.40
1:E:821:ILE:HD11	1:E:857:VAL:HG21	2.03	0.40
1:E:1176:HIS:CB	1:E:1218:THR:CB	2.98	0.40
1:E:1217:GLY:HA3	1:E:1236:ASP:O	2.21	0.40
1:E:1232:TYR:HD2	1:E:1244:LEU:HD21	1.87	0.40
1:G:140:LEU:HD12	1:G:173:LEU:HD11	2.03	0.40
1:G:359:TYR:CD1	1:G:359:TYR:C	2.86	0.40
1:G:394:LYS:CB	1:G:434:ARG:CB	2.80	0.40
1:G:427:ASP:HB2	1:G:434:ARG:O	2.21	0.40
1:G:441:GLN:O	1:G:445:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:595:LEU:HD21	1:G:1201:TRP:HH2	1.87	0.40
1:G:669:ASP:O	1:G:686:SER:OG	2.27	0.40
1:G:999:ARG:HA	1:G:999:ARG:HD2	1.73	0.40
1:I:146:GLU:OE1	1:I:146:GLU:HA	2.21	0.40
1:I:562:ASN:HD22	1:I:562:ASN:HA	1.75	0.40
1:I:868:ASN:HB2	1:I:875:VAL:HG23	2.03	0.40
1:K:209:ASP:O	1:K:210:GLU:HB2	2.21	0.40
1:K:326:LEU:CD2	1:K:353:ILE:HB	2.51	0.40
1:K:407:GLU:H	1:K:407:GLU:HG2	1.47	0.40
1:K:1111:ILE:O	1:K:1120:LEU:N	2.54	0.40
1:K:1113:SER:N	1:K:1120:LEU:HD13	2.35	0.40
1:M:195:LEU:HD12	1:M:195:LEU:C	2.36	0.40
1:M:543:ASN:CB	1:M:576:VAL:HG23	2.51	0.40
1:M:547:PHE:O	1:M:551:ASN:ND2	2.50	0.40
1:M:595:LEU:CD2	1:M:1201:TRP:HH2	2.33	0.40
1:M:1126:HIS:CD2	1:M:1128:GLY:H	2.38	0.40
1:A:138:GLN:HE21	1:A:139:LYS:CA	2.35	0.40
1:A:551:ASN:OD1	1:A:555:LEU:HG	2.21	0.40
1:C:195:LEU:HD12	1:C:195:LEU:C	2.36	0.40
1:C:246:TRP:HE3	1:C:374:MET:HG2	1.86	0.40
1:C:434:ARG:HG3	1:C:434:ARG:HH21	1.86	0.40
1:C:551:ASN:OD1	1:C:555:LEU:HG	2.21	0.40
1:C:639:LEU:H	1:C:653:ILE:HG22	1.79	0.40
1:C:1089:LEU:H	1:C:1105:ALA:HB2	1.86	0.40
1:E:485:ASN:HB2	1:E:486:PHE:CD1	2.57	0.40
1:E:603:ILE:CD1	1:E:1242:TYR:CE1	3.00	0.40
1:E:1200:LYS:HG3	1:E:1211:GLN:HB2	2.03	0.40
1:G:149:TRP:CZ3	1:G:251:LEU:HB3	2.56	0.40
1:G:389:LEU:HD21	1:G:395:VAL:HG11	2.03	0.40
1:G:507:LEU:CD1	1:G:579:GLN:CG	2.98	0.40
1:G:563:ILE:O	1:G:567:GLY:N	2.51	0.40
1:G:612:ARG:HD3	1:G:614:HIS:O	2.21	0.40
1:G:923:LYS:HD3	1:G:923:LYS:HA	1.82	0.40
1:G:1225:VAL:CG1	1:G:1229:PHE:CE1	3.01	0.40
1:I:330:LEU:HD12	1:I:330:LEU:HA	1.74	0.40
1:I:389:LEU:HD21	1:I:395:VAL:HG11	2.03	0.40
1:I:529:TYR:CA	1:I:532:ILE:CG2	2.98	0.40
1:I:534:ASP:O	1:I:538:CYS:SG	2.68	0.40
1:I:595:LEU:HD21	1:I:1201:TRP:HH2	1.87	0.40
1:I:939:ALA:O	1:I:946:LEU:HB2	2.21	0.40
1:K:140:LEU:C	1:K:140:LEU:CD1	2.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:295:LEU:HD22	1:K:295:LEU:HA	1.75	0.40
1:K:303:LYS:H	1:K:303:LYS:HG2	1.67	0.40
1:K:485:ASN:HB2	1:K:486:PHE:CD1	2.57	0.40
1:K:516:LEU:HD12	1:K:516:LEU:HA	1.83	0.40
1:K:549:SER:OG	1:K:608:ARG:O	2.37	0.40
1:K:595:LEU:HD21	1:K:1201:TRP:HH2	1.86	0.40
1:K:603:ILE:O	1:K:604:THR:HB	2.21	0.40
1:M:140:LEU:HD12	1:M:173:LEU:HD11	2.03	0.40
1:M:326:LEU:CD2	1:M:353:ILE:HB	2.50	0.40
1:M:474:SER:HB2	1:M:475:PRO:HD2	2.02	0.40
1:M:485:ASN:HB2	1:M:486:PHE:CD1	2.57	0.40
1:M:815:VAL:O	1:M:821:ILE:HG23	2.21	0.40
1:M:1212:THR:OG1	1:M:1213:PHE:N	2.53	0.40
1:A:147:PRO:HB3	1:A:257:GLN:O	2.21	0.40
1:A:364:LEU:CD1	1:A:364:LEU:C	2.90	0.40
1:A:496:MET:CE	1:A:496:MET:CA	2.98	0.40
1:A:507:LEU:HD12	1:A:579:GLN:HG2	2.03	0.40
1:A:612:ARG:HD3	1:A:614:HIS:O	2.21	0.40
1:A:997:GLN:HB3	1:A:1030:TRP:HH2	1.86	0.40
1:A:999:ARG:HA	1:A:999:ARG:HD2	1.74	0.40
1:A:1113:SER:N	1:A:1120:LEU:HD13	2.35	0.40
1:A:1217:GLY:HA3	1:A:1236:ASP:O	2.21	0.40
1:C:473:LEU:HD23	1:C:484:TYR:HE1	1.80	0.40
1:C:485:ASN:HB2	1:C:486:PHE:CD1	2.57	0.40
1:C:496:MET:CE	1:C:496:MET:CA	2.98	0.40
1:C:560:PHE:HA	1:C:561:PRO:HD2	1.73	0.40
1:C:603:ILE:O	1:C:604:THR:HB	2.21	0.40
1:C:639:LEU:CD1	1:C:641:VAL:HG23	2.51	0.40
1:C:858:ALA:HB2	1:C:864:VAL:HG22	2.03	0.40
1:C:1217:GLY:HA3	1:C:1236:ASP:O	2.21	0.40
1:C:1239:GLY:O	1:C:1240:ILE:HD12	2.21	0.40
1:E:149:TRP:CZ3	1:E:251:LEU:HB3	2.57	0.40
1:E:174:LEU:C	1:E:174:LEU:CD2	2.86	0.40
1:E:1182:ASP:CG	1:E:1223:ILE:HD13	2.42	0.40
1:G:137:GLN:HE21	1:G:173:LEU:HD22	1.86	0.40
1:G:239:LEU:C	1:G:239:LEU:CD1	2.85	0.40
1:G:244:ASP:OD1	1:G:246:TRP:NE1	2.50	0.40
1:G:875:VAL:CG1	1:G:915:CYS:SG	2.94	0.40
1:G:1046:THR:CG2	1:G:1063:PHE:HE2	2.34	0.40
1:G:1217:GLY:HA3	1:G:1236:ASP:O	2.21	0.40
1:I:572:GLU:HB3	1:I:573:THR:H	1.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:597:TRP:CZ3	1:I:600:LYS:HA	2.55	0.40
1:I:750:ARG:HB2	1:I:806:TRP:HE1	1.85	0.40
1:I:1182:ASP:CG	1:I:1223:ILE:HD13	2.42	0.40
2:J:18:HIS:CE1	2:J:30:PRO:CD	3.00	0.40
1:K:239:LEU:HD12	1:K:240:LEU:H	1.77	0.40
1:K:261:LEU:C	1:K:261:LEU:CD1	2.85	0.40
1:K:270:THR:O	1:K:270:THR:OG1	2.32	0.40
1:K:327:ILE:CD1	1:K:353:ILE:CG2	3.00	0.40
1:K:429:ASN:O	1:K:432:SER:O	2.39	0.40
1:K:507:LEU:CD1	1:K:579:GLN:CG	2.98	0.40
1:K:507:LEU:HD11	1:K:579:GLN:HG2	2.03	0.40
1:K:724:PHE:CE1	1:K:740:PHE:HB3	2.56	0.40
1:K:997:GLN:HB3	1:K:1030:TRP:HH2	1.86	0.40
1:K:1070:TRP:HB3	1:K:1071:ASN:H	1.74	0.40
1:M:279:VAL:HG23	1:M:279:VAL:O	2.20	0.40
1:M:516:LEU:HA	1:M:516:LEU:HD12	1.83	0.40
1:M:595:LEU:HD13	1:M:1244:LEU:CG	2.50	0.40
1:M:595:LEU:HD21	1:M:1201:TRP:HH2	1.87	0.40
1:M:597:TRP:CZ3	1:M:600:LYS:HA	2.55	0.40
1:M:612:ARG:HD3	1:M:614:HIS:O	2.21	0.40
1:M:736:ARG:NH1	1:M:772:ALA:O	2.39	0.40
1:M:938:LEU:HD13	1:M:938:LEU:HA	1.85	0.40
1:M:939:ALA:O	1:M:946:LEU:HB2	2.21	0.40
1:M:1232:TYR:HD2	1:M:1244:LEU:HD21	1.87	0.40
1:A:403:LEU:HD11	1:A:459:LYS:HZ2	1.87	0.40
1:A:588:VAL:HG11	1:A:1248:GLU:C	2.42	0.40
1:A:868:ASN:HB2	1:A:875:VAL:HG23	2.03	0.40
1:A:1111:ILE:O	1:A:1120:LEU:N	2.54	0.40
1:A:1239:GLY:O	1:A:1240:ILE:HD12	2.21	0.40
1:C:147:PRO:HB3	1:C:257:GLN:O	2.21	0.40
1:C:251:LEU:CD1	1:C:269:VAL:HG12	2.52	0.40
1:C:420:ASN:C	1:C:422:SER:N	2.74	0.40
1:C:1056:SER:O	1:C:1072:ILE:N	2.31	0.40
1:C:1244:LEU:HD12	1:C:1244:LEU:C	2.42	0.40
1:E:137:GLN:HE21	1:E:173:LEU:HD22	1.86	0.40
1:E:507:LEU:HD11	1:E:579:GLN:HG2	2.03	0.40
1:E:529:TYR:CA	1:E:532:ILE:CG2	2.98	0.40
1:E:565:GLN:HE22	1:E:568:LEU:CD1	2.34	0.40
1:E:910:GLU:HB3	1:E:913:LYS:HG3	2.02	0.40
1:G:139:LYS:O	1:G:142:LYS:HB3	2.21	0.40
1:G:486:PHE:N	1:G:486:PHE:HD1	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:551:ASN:OD1	1:G:555:LEU:HG	2.21	0.40
1:G:818:LYS:O	1:G:843:ILE:HG13	2.21	0.40
1:G:1044:GLN:HG2	1:G:1068:LYS:HZ2	1.86	0.40
1:G:1239:GLY:O	1:G:1240:ILE:HD12	2.21	0.40
1:G:1244:LEU:HD12	1:G:1244:LEU:C	2.42	0.40
2:H:18:HIS:CE1	2:H:30:PRO:CD	3.00	0.40
1:I:149:TRP:CZ3	1:I:251:LEU:HB3	2.56	0.40
1:I:161:SER:CB	3:I:1301:DTP:O2A	2.65	0.40
1:I:882:LEU:O	1:I:883:SER:CB	2.70	0.40
1:I:997:GLN:HB3	1:I:1030:TRP:HH2	1.86	0.40
1:I:1239:GLY:O	1:I:1240:ILE:HD12	2.21	0.40
1:K:146:GLU:OE1	1:K:146:GLU:HA	2.21	0.40
1:K:149:TRP:CZ3	1:K:251:LEU:HB3	2.56	0.40
1:K:420:ASN:C	1:K:422:SER:N	2.74	0.40
1:K:486:PHE:N	1:K:486:PHE:HD1	2.19	0.40
1:K:858:ALA:HB2	1:K:864:VAL:HG22	2.03	0.40
1:K:1089:LEU:H	1:K:1105:ALA:HB2	1.86	0.40
1:K:1182:ASP:CG	1:K:1223:ILE:HD13	2.42	0.40
1:M:427:ASP:HB2	1:M:434:ARG:O	2.21	0.40
1:M:1182:ASP:CG	1:M:1223:ILE:HD13	2.42	0.40
1:M:1239:GLY:O	1:M:1240:ILE:HD12	2.21	0.40
1:A:261:LEU:C	1:A:261:LEU:CD1	2.85	0.40
1:A:279:VAL:O	1:A:279:VAL:HG23	2.20	0.40
1:A:393:VAL:HG23	1:A:393:VAL:O	2.22	0.40
1:A:407:GLU:O	1:A:411:VAL:HG23	2.22	0.40
1:A:485:ASN:HB2	1:A:486:PHE:CD1	2.57	0.40
1:A:507:LEU:HD11	1:A:579:GLN:HG2	2.03	0.40
1:A:821:ILE:HD11	1:A:857:VAL:HG21	2.03	0.40
1:A:924:GLN:N	1:A:1238:LEU:HD21	2.37	0.40
1:A:1056:SER:O	1:A:1072:ILE:HG12	2.22	0.40
1:A:1089:LEU:H	1:A:1105:ALA:HB2	1.86	0.40
1:C:137:GLN:HE21	1:C:173:LEU:HD22	1.86	0.40
1:C:209:ASP:O	1:C:210:GLU:HB2	2.21	0.40
1:C:588:VAL:HG11	1:C:1248:GLU:C	2.42	0.40
1:C:1182:ASP:CG	1:C:1223:ILE:HD13	2.42	0.40
1:E:507:LEU:HD12	1:E:579:GLN:HG2	2.03	0.40
1:E:639:LEU:CD1	1:E:641:VAL:HG23	2.51	0.40
1:E:924:GLN:N	1:E:1238:LEU:HD21	2.37	0.40
1:E:1239:GLY:O	1:E:1240:ILE:HD12	2.21	0.40
1:G:326:LEU:CD2	1:G:353:ILE:HB	2.51	0.40
1:G:429:ASN:O	1:G:432:SER:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:639:LEU:CD1	1:G:641:VAL:HG23	2.51	0.40
1:G:821:ILE:HD11	1:G:857:VAL:HG21	2.03	0.40
1:G:884:TRP:CH2	2:H:81:ILE:CD1	3.05	0.40
1:G:997:GLN:HB3	1:G:1030:TRP:HH2	1.86	0.40
1:G:1093:ILE:O	1:G:1093:ILE:HG13	2.21	0.40
1:I:139:LYS:O	1:I:142:LYS:HB3	2.21	0.40
1:I:429:ASN:HD22	1:I:429:ASN:HA	1.66	0.40
1:I:431:LYS:HZ1	1:K:336:ASN:CB	2.29	0.40
1:I:595:LEU:HD13	1:I:1244:LEU:CG	2.50	0.40
1:K:246:TRP:HE3	1:K:374:MET:HG2	1.86	0.40
1:K:409:GLU:CG	1:M:340:TYR:CZ	3.00	0.40
1:K:551:ASN:OD1	1:K:555:LEU:HG	2.21	0.40
1:K:562:ASN:HD22	1:K:562:ASN:HA	1.76	0.40
1:K:1239:GLY:O	1:K:1240:ILE:HD12	2.21	0.40
1:M:270:THR:O	1:M:270:THR:OG1	2.32	0.40
1:M:429:ASN:HD22	1:M:429:ASN:HA	1.66	0.40
1:M:441:GLN:O	1:M:445:LEU:HG	2.21	0.40
1:M:507:LEU:HD11	1:M:579:GLN:HG2	2.03	0.40
1:M:866:LEU:CD2	1:M:914:VAL:HB	2.43	0.40
1:M:1046:THR:CG2	1:M:1063:PHE:HE2	2.34	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	3	28
1	C	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	3	28
1	E	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	3	28
1	G	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	3	28

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	3	28
1	K	1142/1260 (91%)	999 (88%)	97 (8%)	46 (4%)	3	28
1	M	1142/1260 (91%)	999 (88%)	97 (8%)	46 (4%)	3	28
2	B	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	D	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	F	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	H	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	J	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	L	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	N	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
All	All	8708/9555 (91%)	7693 (88%)	698 (8%)	317 (4%)	6	30

All (317) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	147	PRO
1	A	557	ARG
1	A	560	PHE
1	A	562	ASN
1	A	645	GLU
1	A	795	GLU
1	A	841	SER
1	A	885	VAL
1	A	904	GLN
1	A	932	GLU
1	A	1174	ALA
1	A	1212	THR
1	A	1240	ILE
1	C	147	PRO
1	C	557	ARG
1	C	560	PHE
1	C	562	ASN
1	C	645	GLU
1	C	795	GLU
1	C	841	SER
1	C	885	VAL
1	C	904	GLN
1	C	932	GLU

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Mol	Chain	Res	Type
1	C	1174	ALA
1	C	1212	THR
1	C	1240	ILE
1	E	147	PRO
1	E	557	ARG
1	E	560	PHE
1	E	562	ASN
1	E	645	GLU
1	E	795	GLU
1	E	841	SER
1	E	885	VAL
1	E	904	GLN
1	E	932	GLU
1	E	1174	ALA
1	E	1212	THR
1	E	1240	ILE
1	G	147	PRO
1	G	557	ARG
1	G	560	PHE
1	G	562	ASN
1	G	645	GLU
1	G	795	GLU
1	G	841	SER
1	G	885	VAL
1	G	904	GLN
1	G	932	GLU
1	G	1174	ALA
1	G	1212	THR
1	G	1240	ILE
1	I	147	PRO
1	I	557	ARG
1	I	560	PHE
1	I	562	ASN
1	I	645	GLU
1	I	795	GLU
1	I	841	SER
1	I	885	VAL
1	I	904	GLN
1	I	932	GLU
1	I	1174	ALA
1	I	1212	THR
1	I	1240	ILE

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Mol	Chain	Res	Type
1	K	147	PRO
1	K	557	ARG
1	K	560	PHE
1	K	562	ASN
1	K	645	GLU
1	K	795	GLU
1	K	841	SER
1	K	885	VAL
1	K	904	GLN
1	K	932	GLU
1	K	1174	ALA
1	K	1212	THR
1	K	1240	ILE
1	M	147	PRO
1	M	557	ARG
1	M	560	PHE
1	M	562	ASN
1	M	645	GLU
1	M	795	GLU
1	M	841	SER
1	M	885	VAL
1	M	904	GLN
1	M	932	GLU
1	M	1174	ALA
1	M	1212	THR
1	M	1240	ILE
1	A	245	VAL
1	A	558	GLN
1	A	573	THR
1	A	884	TRP
1	A	1214	TYR
1	C	245	VAL
1	C	558	GLN
1	C	573	THR
1	C	884	TRP
1	C	1214	TYR
1	E	245	VAL
1	E	558	GLN
1	E	573	THR
1	E	884	TRP
1	E	1214	TYR
1	G	245	VAL

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Mol	Chain	Res	Type
1	G	558	GLN
1	G	573	THR
1	G	884	TRP
1	G	1214	TYR
1	I	245	VAL
1	I	558	GLN
1	I	573	THR
1	I	884	TRP
1	I	1214	TYR
1	K	245	VAL
1	K	558	GLN
1	K	573	THR
1	K	884	TRP
1	K	1214	TYR
1	M	245	VAL
1	M	558	GLN
1	M	573	THR
1	M	884	TRP
1	M	1214	TYR
1	A	281	PRO
1	A	559	PRO
1	A	561	PRO
1	A	568	LEU
1	A	572	GLU
1	A	679	LYS
1	A	921	MET
1	A	1158	ASN
1	A	1171	GLU
1	A	1206	THR
1	C	281	PRO
1	C	559	PRO
1	C	561	PRO
1	C	568	LEU
1	C	572	GLU
1	C	679	LYS
1	C	921	MET
1	C	1158	ASN
1	C	1171	GLU
1	C	1206	THR
1	E	281	PRO
1	E	559	PRO
1	E	561	PRO

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Mol	Chain	Res	Type
1	E	568	LEU
1	E	572	GLU
1	E	679	LYS
1	E	921	MET
1	E	1158	ASN
1	E	1171	GLU
1	E	1206	THR
1	G	281	PRO
1	G	559	PRO
1	G	561	PRO
1	G	568	LEU
1	G	572	GLU
1	G	679	LYS
1	G	921	MET
1	G	1158	ASN
1	G	1171	GLU
1	G	1206	THR
1	I	281	PRO
1	I	559	PRO
1	I	561	PRO
1	I	568	LEU
1	I	572	GLU
1	I	679	LYS
1	I	921	MET
1	I	1158	ASN
1	I	1171	GLU
1	I	1206	THR
1	K	281	PRO
1	K	559	PRO
1	K	561	PRO
1	K	568	LEU
1	K	572	GLU
1	K	679	LYS
1	K	921	MET
1	K	1158	ASN
1	K	1171	GLU
1	K	1206	THR
1	M	281	PRO
1	M	559	PRO
1	M	561	PRO
1	M	568	LEU
1	M	572	GLU

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Mol	Chain	Res	Type
1	M	679	LYS
1	M	921	MET
1	M	1158	ASN
1	M	1171	GLU
1	M	1206	THR
1	A	697	GLU
1	A	963	GLN
1	A	1022	SER
1	A	1129	CYS
1	A	1179	TRP
1	A	1205	VAL
1	C	697	GLU
1	C	963	GLN
1	C	1022	SER
1	C	1129	CYS
1	C	1179	TRP
1	C	1205	VAL
1	E	697	GLU
1	E	963	GLN
1	E	1022	SER
1	E	1129	CYS
1	E	1179	TRP
1	E	1205	VAL
1	G	697	GLU
1	G	963	GLN
1	G	1022	SER
1	G	1129	CYS
1	G	1179	TRP
1	G	1205	VAL
1	I	697	GLU
1	I	963	GLN
1	I	1022	SER
1	I	1129	CYS
1	I	1179	TRP
1	I	1205	VAL
1	K	697	GLU
1	K	963	GLN
1	K	1022	SER
1	K	1129	CYS
1	K	1179	TRP
1	K	1205	VAL
1	M	697	GLU

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Mol	Chain	Res	Type
1	M	963	GLN
1	M	1022	SER
1	M	1129	CYS
1	M	1179	TRP
1	M	1205	VAL
1	A	637	LYS
1	A	919	ALA
1	A	1002	HIS
1	A	1007	TRP
1	A	1073	ILE
1	A	1107	LYS
1	C	637	LYS
1	C	919	ALA
1	C	1007	TRP
1	C	1073	ILE
1	C	1107	LYS
1	E	637	LYS
1	E	919	ALA
1	E	1007	TRP
1	E	1073	ILE
1	E	1107	LYS
1	G	637	LYS
1	G	919	ALA
1	G	1007	TRP
1	G	1073	ILE
1	G	1107	LYS
1	I	637	LYS
1	I	919	ALA
1	I	1007	TRP
1	I	1073	ILE
1	I	1107	LYS
1	K	637	LYS
1	K	919	ALA
1	K	1007	TRP
1	K	1073	ILE
1	K	1107	LYS
1	M	637	LYS
1	M	919	ALA
1	M	1002	HIS
1	M	1007	TRP
1	M	1073	ILE
1	M	1107	LYS

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Mol	Chain	Res	Type
1	A	574	SER
1	A	741	GLY
1	C	574	SER
1	C	741	GLY
1	C	1002	HIS
1	E	574	SER
1	E	741	GLY
1	E	1002	HIS
1	G	574	SER
1	G	741	GLY
1	G	1002	HIS
1	I	574	SER
1	I	741	GLY
1	I	1002	HIS
1	K	574	SER
1	K	741	GLY
1	K	883	SER
1	K	1002	HIS
1	M	574	SER
1	M	741	GLY
1	M	883	SER
1	A	146	GLU
1	A	571	PRO
1	C	146	GLU
1	C	571	PRO
1	E	146	GLU
1	E	571	PRO
1	G	146	GLU
1	G	571	PRO
1	I	146	GLU
1	I	571	PRO
1	K	146	GLU
1	K	571	PRO
1	M	146	GLU
1	M	571	PRO
1	A	920	VAL
1	C	920	VAL
1	E	920	VAL
1	G	920	VAL
1	I	920	VAL
1	K	920	VAL
1	M	920	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1027/1131 (91%)	838 (82%)	189 (18%)	1	11
1	C	1027/1131 (91%)	838 (82%)	189 (18%)	1	11
1	E	1027/1131 (91%)	838 (82%)	189 (18%)	1	11
1	G	1027/1131 (91%)	838 (82%)	189 (18%)	1	11
1	I	1027/1131 (91%)	838 (82%)	189 (18%)	1	11
1	K	1027/1131 (91%)	838 (82%)	189 (18%)	1	11
1	M	1027/1131 (91%)	838 (82%)	189 (18%)	1	11
2	B	86/87 (99%)	80 (93%)	6 (7%)	15	46
2	D	86/87 (99%)	80 (93%)	6 (7%)	15	46
2	F	86/87 (99%)	80 (93%)	6 (7%)	15	46
2	H	86/87 (99%)	80 (93%)	6 (7%)	15	46
2	J	86/87 (99%)	81 (94%)	5 (6%)	20	51
2	L	86/87 (99%)	80 (93%)	6 (7%)	15	46
2	N	86/87 (99%)	80 (93%)	6 (7%)	15	46
All	All	7791/8526 (91%)	6427 (82%)	1364 (18%)	4	13

All (1364) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	114	LEU
1	A	116	GLU
1	A	122	ARG
1	A	126	PHE
1	A	128	THR
1	A	129	ARG
1	A	130	LYS
1	A	138	GLN
1	A	139	LYS
1	A	142	LYS
1	A	143	LEU

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Mol	Chain	Res	Type
1	A	144	LYS
1	A	153	HIS
1	A	155	MET
1	A	158	CYS
1	A	160	LYS
1	A	166	GLU
1	A	173	LEU
1	A	174	LEU
1	A	189	LYS
1	A	198	LYS
1	A	206	LEU
1	A	208	GLN
1	A	213	SER
1	A	225	ASP
1	A	226	ARG
1	A	231	MET
1	A	233	ARG
1	A	234	LYS
1	A	237	ARG
1	A	239	LEU
1	A	240	LEU
1	A	243	ASP
1	A	244	ASP
1	A	248	SER
1	A	252	LYS
1	A	256	SER
1	A	259	GLN
1	A	260	ILE
1	A	261	LEU
1	A	262	LEU
1	A	266	ASP
1	A	267	LYS
1	A	268	SER
1	A	273	VAL
1	A	277	LYS
1	A	278	TYR
1	A	283	GLU
1	A	286	LEU
1	A	288	LYS
1	A	290	LYS
1	A	293	GLU
1	A	294	ILE

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Mol	Chain	Res	Type
1	A	295	LEU
1	A	298	PHE
1	A	301	MET
1	A	302	LYS
1	A	303	LYS
1	A	308	GLU
1	A	309	GLN
1	A	311	HIS
1	A	317	CYS
1	A	318	LYS
1	A	322	LEU
1	A	325	SER
1	A	326	LEU
1	A	332	ARG
1	A	333	ASP
1	A	334	PHE
1	A	337	ARG
1	A	348	LYS
1	A	352	ARG
1	A	353	ILE
1	A	357	SER
1	A	358	SER
1	A	359	TYR
1	A	360	ASP
1	A	362	GLU
1	A	368	MET
1	A	373	GLU
1	A	374	MET
1	A	376	ARG
1	A	383	TYR
1	A	384	THR
1	A	386	LEU
1	A	389	LEU
1	A	391	LYS
1	A	397	THR
1	A	402	ILE
1	A	403	LEU
1	A	404	TRP
1	A	405	ASP
1	A	406	MET
1	A	407	GLU
1	A	416	GLN

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Mol	Chain	Res	Type
1	A	426	CYS
1	A	428	ARG
1	A	429	ASN
1	A	431	LYS
1	A	434	ARG
1	A	438	HIS
1	A	439	ASP
1	A	443	ASP
1	A	449	ASN
1	A	450	CYS
1	A	455	ASP
1	A	456	LEU
1	A	473	LEU
1	A	476	ASP
1	A	477	GLN
1	A	486	PHE
1	A	489	TYR
1	A	490	HIS
1	A	493	SER
1	A	505	PHE
1	A	514	THR
1	A	515	GLU
1	A	522	LEU
1	A	524	HIS
1	A	528	GLU
1	A	529	TYR
1	A	530	ARG
1	A	531	HIS
1	A	532	ILE
1	A	533	LEU
1	A	534	ASP
1	A	537	ASP
1	A	546	GLU
1	A	550	LEU
1	A	553	HIS
1	A	557	ARG
1	A	562	ASN
1	A	568	LEU
1	A	572	GLU
1	A	573	THR
1	A	575	GLU
1	A	576	VAL

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Mol	Chain	Res	Type
1	A	578	GLN
1	A	585	LYS
1	A	586	GLN
1	A	587	GLU
1	A	596	GLU
1	A	598	ILE
1	A	600	LYS
1	A	616	ASP
1	A	619	TYR
1	A	633	CYS
1	A	643	LYS
1	A	645	GLU
1	A	646	THR
1	A	649	LYS
1	A	651	LEU
1	A	654	LYS
1	A	657	GLU
1	A	658	ASP
1	A	659	GLU
1	A	879	ARG
1	A	881	HIS
1	A	882	LEU
1	A	902	ASP
1	A	907	ARG
1	A	918	SER
1	A	921	MET
1	A	925	GLU
1	A	938	LEU
1	A	940	VAL
1	A	948	LEU
1	A	999	ARG
1	A	1078	GLU
1	A	1164	LEU
1	A	1165	CYS
1	A	1168	LEU
1	A	1170	GLU
1	A	1171	GLU
1	A	1179	TRP
1	A	1181	THR
1	A	1182	ASP
1	A	1183	LEU
1	A	1192	LEU

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Mol	Chain	Res	Type
1	A	1211	GLN
1	A	1218	THR
1	A	1219	ASN
1	A	1220	LEU
1	A	1226	SER
1	A	1229	PHE
1	A	1232	TYR
1	A	1240	ILE
1	A	1245	GLN
1	A	1247	LEU
2	B	12	GLN
2	B	38	ARG
2	B	39	LYS
2	B	52	ASN
2	B	53	LYS
2	B	86	LYS
1	C	114	LEU
1	C	116	GLU
1	C	122	ARG
1	C	126	PHE
1	C	128	THR
1	C	129	ARG
1	C	130	LYS
1	C	138	GLN
1	C	139	LYS
1	C	142	LYS
1	C	143	LEU
1	C	144	LYS
1	C	153	HIS
1	C	155	MET
1	C	158	CYS
1	C	160	LYS
1	C	166	GLU
1	C	173	LEU
1	C	174	LEU
1	C	189	LYS
1	C	198	LYS
1	C	206	LEU
1	C	208	GLN
1	C	213	SER
1	C	225	ASP
1	C	226	ARG

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Mol	Chain	Res	Type
1	C	231	MET
1	C	233	ARG
1	C	234	LYS
1	C	237	ARG
1	C	239	LEU
1	C	240	LEU
1	C	243	ASP
1	C	244	ASP
1	C	248	SER
1	C	252	LYS
1	C	256	SER
1	C	259	GLN
1	C	260	ILE
1	C	261	LEU
1	C	262	LEU
1	C	266	ASP
1	C	267	LYS
1	C	268	SER
1	C	273	VAL
1	C	277	LYS
1	C	278	TYR
1	C	283	GLU
1	C	286	LEU
1	C	288	LYS
1	C	290	LYS
1	C	293	GLU
1	C	294	ILE
1	C	295	LEU
1	C	298	PHE
1	C	301	MET
1	C	302	LYS
1	C	303	LYS
1	C	308	GLU
1	C	309	GLN
1	C	311	HIS
1	C	317	CYS
1	C	318	LYS
1	C	322	LEU
1	C	325	SER
1	C	326	LEU
1	C	332	ARG
1	C	333	ASP

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Mol	Chain	Res	Type
1	C	334	PHE
1	C	337	ARG
1	C	348	LYS
1	C	352	ARG
1	C	353	ILE
1	C	357	SER
1	C	358	SER
1	C	359	TYR
1	C	360	ASP
1	C	362	GLU
1	C	368	MET
1	C	373	GLU
1	C	374	MET
1	C	376	ARG
1	C	383	TYR
1	C	384	THR
1	C	386	LEU
1	C	389	LEU
1	C	391	LYS
1	C	397	THR
1	C	402	ILE
1	C	403	LEU
1	C	404	TRP
1	C	405	ASP
1	C	406	MET
1	C	407	GLU
1	C	416	GLN
1	C	426	CYS
1	C	428	ARG
1	C	429	ASN
1	C	431	LYS
1	C	434	ARG
1	C	438	HIS
1	C	439	ASP
1	C	443	ASP
1	C	449	ASN
1	C	450	CYS
1	C	455	ASP
1	C	456	LEU
1	C	473	LEU
1	C	476	ASP
1	C	477	GLN

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Mol	Chain	Res	Type
1	C	486	PHE
1	C	489	TYR
1	C	490	HIS
1	C	493	SER
1	C	505	PHE
1	C	514	THR
1	C	515	GLU
1	C	522	LEU
1	C	524	HIS
1	C	528	GLU
1	C	529	TYR
1	C	530	ARG
1	C	531	HIS
1	C	532	ILE
1	C	533	LEU
1	C	534	ASP
1	C	537	ASP
1	C	546	GLU
1	C	550	LEU
1	C	553	HIS
1	C	557	ARG
1	C	562	ASN
1	C	568	LEU
1	C	572	GLU
1	C	573	THR
1	C	575	GLU
1	C	576	VAL
1	C	578	GLN
1	C	585	LYS
1	C	586	GLN
1	C	587	GLU
1	C	596	GLU
1	C	598	ILE
1	C	600	LYS
1	C	616	ASP
1	C	619	TYR
1	C	633	CYS
1	C	643	LYS
1	C	645	GLU
1	C	646	THR
1	C	649	LYS
1	C	651	LEU

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Mol	Chain	Res	Type
1	C	654	LYS
1	C	657	GLU
1	C	658	ASP
1	C	659	GLU
1	C	879	ARG
1	C	881	HIS
1	C	882	LEU
1	C	902	ASP
1	C	907	ARG
1	C	918	SER
1	C	921	MET
1	C	925	GLU
1	C	938	LEU
1	C	940	VAL
1	C	948	LEU
1	C	999	ARG
1	C	1078	GLU
1	C	1164	LEU
1	C	1165	CYS
1	C	1168	LEU
1	C	1170	GLU
1	C	1171	GLU
1	C	1179	TRP
1	C	1181	THR
1	C	1182	ASP
1	C	1183	LEU
1	C	1192	LEU
1	C	1211	GLN
1	C	1218	THR
1	C	1219	ASN
1	C	1220	LEU
1	C	1226	SER
1	C	1229	PHE
1	C	1232	TYR
1	C	1240	ILE
1	C	1245	GLN
1	C	1247	LEU
2	D	12	GLN
2	D	38	ARG
2	D	39	LYS
2	D	52	ASN
2	D	53	LYS

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Mol	Chain	Res	Type
2	D	86	LYS
1	E	114	LEU
1	E	116	GLU
1	E	122	ARG
1	E	126	PHE
1	E	128	THR
1	E	129	ARG
1	E	130	LYS
1	E	138	GLN
1	E	139	LYS
1	E	142	LYS
1	E	143	LEU
1	E	144	LYS
1	E	153	HIS
1	E	155	MET
1	E	158	CYS
1	E	160	LYS
1	E	166	GLU
1	E	173	LEU
1	E	174	LEU
1	E	189	LYS
1	E	198	LYS
1	E	206	LEU
1	E	208	GLN
1	E	213	SER
1	E	225	ASP
1	E	226	ARG
1	E	231	MET
1	E	233	ARG
1	E	234	LYS
1	E	237	ARG
1	E	239	LEU
1	E	240	LEU
1	E	243	ASP
1	E	244	ASP
1	E	248	SER
1	E	252	LYS
1	E	256	SER
1	E	259	GLN
1	E	260	ILE
1	E	261	LEU
1	E	262	LEU

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Mol	Chain	Res	Type
1	E	266	ASP
1	E	267	LYS
1	E	268	SER
1	E	273	VAL
1	E	277	LYS
1	E	278	TYR
1	E	283	GLU
1	E	286	LEU
1	E	288	LYS
1	E	290	LYS
1	E	293	GLU
1	E	294	ILE
1	E	295	LEU
1	E	298	PHE
1	E	301	MET
1	E	302	LYS
1	E	303	LYS
1	E	308	GLU
1	E	309	GLN
1	E	311	HIS
1	E	317	CYS
1	E	318	LYS
1	E	322	LEU
1	E	325	SER
1	E	326	LEU
1	E	332	ARG
1	E	333	ASP
1	E	334	PHE
1	E	337	ARG
1	E	348	LYS
1	E	352	ARG
1	E	353	ILE
1	E	357	SER
1	E	358	SER
1	E	359	TYR
1	E	360	ASP
1	E	362	GLU
1	E	368	MET
1	E	373	GLU
1	E	374	MET
1	E	376	ARG
1	E	383	TYR

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Mol	Chain	Res	Type
1	E	384	THR
1	E	386	LEU
1	E	389	LEU
1	E	391	LYS
1	E	397	THR
1	E	402	ILE
1	E	403	LEU
1	E	404	TRP
1	E	405	ASP
1	E	406	MET
1	E	407	GLU
1	E	416	GLN
1	E	426	CYS
1	E	428	ARG
1	E	429	ASN
1	E	431	LYS
1	E	434	ARG
1	E	438	HIS
1	E	439	ASP
1	E	443	ASP
1	E	449	ASN
1	E	450	CYS
1	E	455	ASP
1	E	456	LEU
1	E	473	LEU
1	E	476	ASP
1	E	477	GLN
1	E	486	PHE
1	E	489	TYR
1	E	490	HIS
1	E	493	SER
1	E	505	PHE
1	E	514	THR
1	E	515	GLU
1	E	522	LEU
1	E	524	HIS
1	E	528	GLU
1	E	529	TYR
1	E	530	ARG
1	E	531	HIS
1	E	532	ILE
1	E	533	LEU

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Mol	Chain	Res	Type
1	E	534	ASP
1	E	537	ASP
1	E	546	GLU
1	E	550	LEU
1	E	553	HIS
1	E	557	ARG
1	E	562	ASN
1	E	568	LEU
1	E	572	GLU
1	E	573	THR
1	E	575	GLU
1	E	576	VAL
1	E	578	GLN
1	E	585	LYS
1	E	586	GLN
1	E	587	GLU
1	E	596	GLU
1	E	598	ILE
1	E	600	LYS
1	E	616	ASP
1	E	619	TYR
1	E	633	CYS
1	E	643	LYS
1	E	645	GLU
1	E	646	THR
1	E	649	LYS
1	E	651	LEU
1	E	654	LYS
1	E	657	GLU
1	E	658	ASP
1	E	659	GLU
1	E	879	ARG
1	E	881	HIS
1	E	882	LEU
1	E	902	ASP
1	E	907	ARG
1	E	918	SER
1	E	921	MET
1	E	925	GLU
1	E	938	LEU
1	E	940	VAL
1	E	948	LEU

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Mol	Chain	Res	Type
1	E	999	ARG
1	E	1078	GLU
1	E	1164	LEU
1	E	1165	CYS
1	E	1168	LEU
1	E	1170	GLU
1	E	1171	GLU
1	E	1179	TRP
1	E	1181	THR
1	E	1182	ASP
1	E	1183	LEU
1	E	1192	LEU
1	E	1211	GLN
1	E	1218	THR
1	E	1219	ASN
1	E	1220	LEU
1	E	1226	SER
1	E	1229	PHE
1	E	1232	TYR
1	E	1240	ILE
1	E	1245	GLN
1	E	1247	LEU
2	F	12	GLN
2	F	38	ARG
2	F	39	LYS
2	F	52	ASN
2	F	53	LYS
2	F	86	LYS
1	G	114	LEU
1	G	116	GLU
1	G	122	ARG
1	G	126	PHE
1	G	128	THR
1	G	129	ARG
1	G	130	LYS
1	G	138	GLN
1	G	139	LYS
1	G	142	LYS
1	G	143	LEU
1	G	144	LYS
1	G	153	HIS
1	G	155	MET

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Mol	Chain	Res	Type
1	G	158	CYS
1	G	160	LYS
1	G	166	GLU
1	G	173	LEU
1	G	174	LEU
1	G	189	LYS
1	G	198	LYS
1	G	206	LEU
1	G	208	GLN
1	G	213	SER
1	G	225	ASP
1	G	226	ARG
1	G	231	MET
1	G	233	ARG
1	G	234	LYS
1	G	237	ARG
1	G	239	LEU
1	G	240	LEU
1	G	243	ASP
1	G	244	ASP
1	G	248	SER
1	G	252	LYS
1	G	256	SER
1	G	259	GLN
1	G	260	ILE
1	G	261	LEU
1	G	262	LEU
1	G	266	ASP
1	G	267	LYS
1	G	268	SER
1	G	273	VAL
1	G	277	LYS
1	G	278	TYR
1	G	283	GLU
1	G	286	LEU
1	G	288	LYS
1	G	290	LYS
1	G	293	GLU
1	G	294	ILE
1	G	295	LEU
1	G	298	PHE
1	G	301	MET

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Mol	Chain	Res	Type
1	G	302	LYS
1	G	303	LYS
1	G	308	GLU
1	G	309	GLN
1	G	311	HIS
1	G	317	CYS
1	G	318	LYS
1	G	322	LEU
1	G	325	SER
1	G	326	LEU
1	G	332	ARG
1	G	333	ASP
1	G	334	PHE
1	G	337	ARG
1	G	348	LYS
1	G	352	ARG
1	G	353	ILE
1	G	357	SER
1	G	358	SER
1	G	359	TYR
1	G	360	ASP
1	G	362	GLU
1	G	368	MET
1	G	373	GLU
1	G	374	MET
1	G	376	ARG
1	G	383	TYR
1	G	384	THR
1	G	386	LEU
1	G	389	LEU
1	G	391	LYS
1	G	397	THR
1	G	402	ILE
1	G	403	LEU
1	G	404	TRP
1	G	405	ASP
1	G	406	MET
1	G	407	GLU
1	G	416	GLN
1	G	426	CYS
1	G	428	ARG
1	G	429	ASN

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Mol	Chain	Res	Type
1	G	431	LYS
1	G	434	ARG
1	G	438	HIS
1	G	439	ASP
1	G	443	ASP
1	G	449	ASN
1	G	450	CYS
1	G	455	ASP
1	G	456	LEU
1	G	473	LEU
1	G	476	ASP
1	G	477	GLN
1	G	486	PHE
1	G	489	TYR
1	G	490	HIS
1	G	493	SER
1	G	505	PHE
1	G	514	THR
1	G	515	GLU
1	G	522	LEU
1	G	524	HIS
1	G	528	GLU
1	G	529	TYR
1	G	530	ARG
1	G	531	HIS
1	G	532	ILE
1	G	533	LEU
1	G	534	ASP
1	G	537	ASP
1	G	546	GLU
1	G	550	LEU
1	G	553	HIS
1	G	557	ARG
1	G	562	ASN
1	G	568	LEU
1	G	572	GLU
1	G	573	THR
1	G	575	GLU
1	G	576	VAL
1	G	578	GLN
1	G	585	LYS
1	G	586	GLN

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Mol	Chain	Res	Type
1	G	587	GLU
1	G	596	GLU
1	G	598	ILE
1	G	600	LYS
1	G	616	ASP
1	G	619	TYR
1	G	633	CYS
1	G	643	LYS
1	G	645	GLU
1	G	646	THR
1	G	649	LYS
1	G	651	LEU
1	G	654	LYS
1	G	657	GLU
1	G	658	ASP
1	G	659	GLU
1	G	879	ARG
1	G	881	HIS
1	G	882	LEU
1	G	902	ASP
1	G	907	ARG
1	G	918	SER
1	G	921	MET
1	G	925	GLU
1	G	938	LEU
1	G	940	VAL
1	G	948	LEU
1	G	999	ARG
1	G	1078	GLU
1	G	1164	LEU
1	G	1165	CYS
1	G	1168	LEU
1	G	1170	GLU
1	G	1171	GLU
1	G	1179	TRP
1	G	1181	THR
1	G	1182	ASP
1	G	1183	LEU
1	G	1192	LEU
1	G	1211	GLN
1	G	1218	THR
1	G	1219	ASN

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Mol	Chain	Res	Type
1	G	1220	LEU
1	G	1226	SER
1	G	1229	PHE
1	G	1232	TYR
1	G	1240	ILE
1	G	1245	GLN
1	G	1247	LEU
2	H	12	GLN
2	H	38	ARG
2	H	39	LYS
2	H	52	ASN
2	H	53	LYS
2	H	86	LYS
1	I	114	LEU
1	I	116	GLU
1	I	122	ARG
1	I	126	PHE
1	I	128	THR
1	I	129	ARG
1	I	130	LYS
1	I	138	GLN
1	I	139	LYS
1	I	142	LYS
1	I	143	LEU
1	I	144	LYS
1	I	153	HIS
1	I	155	MET
1	I	158	CYS
1	I	160	LYS
1	I	166	GLU
1	I	173	LEU
1	I	174	LEU
1	I	189	LYS
1	I	198	LYS
1	I	206	LEU
1	I	208	GLN
1	I	213	SER
1	I	225	ASP
1	I	226	ARG
1	I	231	MET
1	I	233	ARG
1	I	234	LYS

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Mol	Chain	Res	Type
1	I	237	ARG
1	I	239	LEU
1	I	240	LEU
1	I	243	ASP
1	I	244	ASP
1	I	248	SER
1	I	252	LYS
1	I	256	SER
1	I	259	GLN
1	I	260	ILE
1	I	261	LEU
1	I	262	LEU
1	I	266	ASP
1	I	267	LYS
1	I	268	SER
1	I	273	VAL
1	I	277	LYS
1	I	278	TYR
1	I	283	GLU
1	I	286	LEU
1	I	288	LYS
1	I	290	LYS
1	I	293	GLU
1	I	294	ILE
1	I	295	LEU
1	I	298	PHE
1	I	301	MET
1	I	302	LYS
1	I	303	LYS
1	I	308	GLU
1	I	309	GLN
1	I	311	HIS
1	I	317	CYS
1	I	318	LYS
1	I	322	LEU
1	I	325	SER
1	I	326	LEU
1	I	332	ARG
1	I	333	ASP
1	I	334	PHE
1	I	337	ARG
1	I	348	LYS

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Mol	Chain	Res	Type
1	I	352	ARG
1	I	353	ILE
1	I	357	SER
1	I	358	SER
1	I	359	TYR
1	I	360	ASP
1	I	362	GLU
1	I	368	MET
1	I	373	GLU
1	I	374	MET
1	I	376	ARG
1	I	383	TYR
1	I	384	THR
1	I	386	LEU
1	I	389	LEU
1	I	391	LYS
1	I	397	THR
1	I	402	ILE
1	I	403	LEU
1	I	404	TRP
1	I	405	ASP
1	I	406	MET
1	I	407	GLU
1	I	416	GLN
1	I	426	CYS
1	I	428	ARG
1	I	429	ASN
1	I	431	LYS
1	I	434	ARG
1	I	438	HIS
1	I	439	ASP
1	I	443	ASP
1	I	449	ASN
1	I	450	CYS
1	I	455	ASP
1	I	456	LEU
1	I	473	LEU
1	I	476	ASP
1	I	477	GLN
1	I	486	PHE
1	I	489	TYR
1	I	490	HIS

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Mol	Chain	Res	Type
1	I	493	SER
1	I	505	PHE
1	I	514	THR
1	I	515	GLU
1	I	522	LEU
1	I	524	HIS
1	I	528	GLU
1	I	529	TYR
1	I	530	ARG
1	I	531	HIS
1	I	532	ILE
1	I	533	LEU
1	I	534	ASP
1	I	537	ASP
1	I	546	GLU
1	I	550	LEU
1	I	553	HIS
1	I	557	ARG
1	I	562	ASN
1	I	568	LEU
1	I	572	GLU
1	I	573	THR
1	I	575	GLU
1	I	576	VAL
1	I	578	GLN
1	I	585	LYS
1	I	586	GLN
1	I	587	GLU
1	I	596	GLU
1	I	598	ILE
1	I	600	LYS
1	I	616	ASP
1	I	619	TYR
1	I	633	CYS
1	I	643	LYS
1	I	645	GLU
1	I	646	THR
1	I	649	LYS
1	I	651	LEU
1	I	654	LYS
1	I	657	GLU
1	I	658	ASP

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Mol	Chain	Res	Type
1	I	659	GLU
1	I	879	ARG
1	I	881	HIS
1	I	882	LEU
1	I	902	ASP
1	I	907	ARG
1	I	918	SER
1	I	921	MET
1	I	925	GLU
1	I	938	LEU
1	I	940	VAL
1	I	948	LEU
1	I	999	ARG
1	I	1078	GLU
1	I	1164	LEU
1	I	1165	CYS
1	I	1168	LEU
1	I	1170	GLU
1	I	1171	GLU
1	I	1179	TRP
1	I	1181	THR
1	I	1182	ASP
1	I	1183	LEU
1	I	1192	LEU
1	I	1211	GLN
1	I	1218	THR
1	I	1219	ASN
1	I	1220	LEU
1	I	1226	SER
1	I	1229	PHE
1	I	1232	TYR
1	I	1240	ILE
1	I	1245	GLN
1	I	1247	LEU
2	J	12	GLN
2	J	38	ARG
2	J	39	LYS
2	J	52	ASN
2	J	86	LYS
1	K	114	LEU
1	K	116	GLU
1	K	122	ARG

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Mol	Chain	Res	Type
1	K	126	PHE
1	K	128	THR
1	K	129	ARG
1	K	130	LYS
1	K	138	GLN
1	K	139	LYS
1	K	142	LYS
1	K	143	LEU
1	K	144	LYS
1	K	153	HIS
1	K	155	MET
1	K	158	CYS
1	K	160	LYS
1	K	166	GLU
1	K	173	LEU
1	K	174	LEU
1	K	189	LYS
1	K	198	LYS
1	K	206	LEU
1	K	208	GLN
1	K	213	SER
1	K	225	ASP
1	K	226	ARG
1	K	231	MET
1	K	233	ARG
1	K	234	LYS
1	K	237	ARG
1	K	239	LEU
1	K	240	LEU
1	K	243	ASP
1	K	244	ASP
1	K	248	SER
1	K	252	LYS
1	K	256	SER
1	K	259	GLN
1	K	260	ILE
1	K	261	LEU
1	K	262	LEU
1	K	266	ASP
1	K	267	LYS
1	K	268	SER
1	K	273	VAL

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Mol	Chain	Res	Type
1	K	277	LYS
1	K	278	TYR
1	K	283	GLU
1	K	286	LEU
1	K	288	LYS
1	K	290	LYS
1	K	293	GLU
1	K	294	ILE
1	K	295	LEU
1	K	298	PHE
1	K	301	MET
1	K	302	LYS
1	K	303	LYS
1	K	308	GLU
1	K	309	GLN
1	K	311	HIS
1	K	317	CYS
1	K	318	LYS
1	K	322	LEU
1	K	325	SER
1	K	326	LEU
1	K	332	ARG
1	K	333	ASP
1	K	334	PHE
1	K	337	ARG
1	K	348	LYS
1	K	352	ARG
1	K	353	ILE
1	K	357	SER
1	K	358	SER
1	K	359	TYR
1	K	360	ASP
1	K	362	GLU
1	K	368	MET
1	K	373	GLU
1	K	374	MET
1	K	376	ARG
1	K	383	TYR
1	K	384	THR
1	K	386	LEU
1	K	389	LEU
1	K	391	LYS

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Mol	Chain	Res	Type
1	K	397	THR
1	K	402	ILE
1	K	403	LEU
1	K	404	TRP
1	K	405	ASP
1	K	406	MET
1	K	407	GLU
1	K	416	GLN
1	K	426	CYS
1	K	428	ARG
1	K	429	ASN
1	K	431	LYS
1	K	434	ARG
1	K	438	HIS
1	K	439	ASP
1	K	443	ASP
1	K	449	ASN
1	K	450	CYS
1	K	455	ASP
1	K	456	LEU
1	K	473	LEU
1	K	476	ASP
1	K	477	GLN
1	K	486	PHE
1	K	489	TYR
1	K	490	HIS
1	K	493	SER
1	K	505	PHE
1	K	514	THR
1	K	515	GLU
1	K	522	LEU
1	K	524	HIS
1	K	528	GLU
1	K	529	TYR
1	K	530	ARG
1	K	531	HIS
1	K	532	ILE
1	K	533	LEU
1	K	534	ASP
1	K	537	ASP
1	K	546	GLU
1	K	550	LEU

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Mol	Chain	Res	Type
1	K	553	HIS
1	K	557	ARG
1	K	562	ASN
1	K	568	LEU
1	K	572	GLU
1	K	573	THR
1	K	575	GLU
1	K	576	VAL
1	K	578	GLN
1	K	585	LYS
1	K	586	GLN
1	K	587	GLU
1	K	596	GLU
1	K	598	ILE
1	K	600	LYS
1	K	616	ASP
1	K	619	TYR
1	K	633	CYS
1	K	643	LYS
1	K	645	GLU
1	K	646	THR
1	K	649	LYS
1	K	651	LEU
1	K	654	LYS
1	K	657	GLU
1	K	658	ASP
1	K	659	GLU
1	K	879	ARG
1	K	881	HIS
1	K	882	LEU
1	K	902	ASP
1	K	907	ARG
1	K	918	SER
1	K	921	MET
1	K	925	GLU
1	K	938	LEU
1	K	940	VAL
1	K	948	LEU
1	K	999	ARG
1	K	1078	GLU
1	K	1164	LEU
1	K	1165	CYS

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Mol	Chain	Res	Type
1	K	1168	LEU
1	K	1170	GLU
1	K	1171	GLU
1	K	1179	TRP
1	K	1181	THR
1	K	1182	ASP
1	K	1183	LEU
1	K	1192	LEU
1	K	1211	GLN
1	K	1218	THR
1	K	1219	ASN
1	K	1220	LEU
1	K	1226	SER
1	K	1229	PHE
1	K	1232	TYR
1	K	1240	ILE
1	K	1245	GLN
1	K	1247	LEU
2	L	12	GLN
2	L	38	ARG
2	L	39	LYS
2	L	52	ASN
2	L	53	LYS
2	L	86	LYS
1	M	114	LEU
1	M	116	GLU
1	M	122	ARG
1	M	126	PHE
1	M	128	THR
1	M	129	ARG
1	M	130	LYS
1	M	138	GLN
1	M	139	LYS
1	M	142	LYS
1	M	143	LEU
1	M	144	LYS
1	M	153	HIS
1	M	155	MET
1	M	158	CYS
1	M	160	LYS
1	M	166	GLU
1	M	173	LEU

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Mol	Chain	Res	Type
1	M	174	LEU
1	M	189	LYS
1	M	198	LYS
1	M	206	LEU
1	M	208	GLN
1	M	213	SER
1	M	225	ASP
1	M	226	ARG
1	M	231	MET
1	M	233	ARG
1	M	234	LYS
1	M	237	ARG
1	M	239	LEU
1	M	240	LEU
1	M	243	ASP
1	M	244	ASP
1	M	248	SER
1	M	252	LYS
1	M	256	SER
1	M	259	GLN
1	M	260	ILE
1	M	261	LEU
1	M	262	LEU
1	M	266	ASP
1	M	267	LYS
1	M	268	SER
1	M	273	VAL
1	M	277	LYS
1	M	278	TYR
1	M	283	GLU
1	M	286	LEU
1	M	288	LYS
1	M	290	LYS
1	M	293	GLU
1	M	294	ILE
1	M	295	LEU
1	M	298	PHE
1	M	301	MET
1	M	302	LYS
1	M	303	LYS
1	M	308	GLU
1	M	309	GLN

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Mol	Chain	Res	Type
1	M	311	HIS
1	M	317	CYS
1	M	318	LYS
1	M	322	LEU
1	M	325	SER
1	M	326	LEU
1	M	332	ARG
1	M	333	ASP
1	M	334	PHE
1	M	337	ARG
1	M	348	LYS
1	M	352	ARG
1	M	353	ILE
1	M	357	SER
1	M	358	SER
1	M	359	TYR
1	M	360	ASP
1	M	362	GLU
1	M	368	MET
1	M	373	GLU
1	M	374	MET
1	M	376	ARG
1	M	383	TYR
1	M	384	THR
1	M	386	LEU
1	M	389	LEU
1	M	391	LYS
1	M	397	THR
1	M	402	ILE
1	M	403	LEU
1	M	404	TRP
1	M	405	ASP
1	M	406	MET
1	M	407	GLU
1	M	416	GLN
1	M	426	CYS
1	M	428	ARG
1	M	429	ASN
1	M	431	LYS
1	M	434	ARG
1	M	438	HIS
1	M	439	ASP

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Mol	Chain	Res	Type
1	M	443	ASP
1	M	449	ASN
1	M	450	CYS
1	M	455	ASP
1	M	456	LEU
1	M	473	LEU
1	M	476	ASP
1	M	477	GLN
1	M	486	PHE
1	M	489	TYR
1	M	490	HIS
1	M	493	SER
1	M	505	PHE
1	M	514	THR
1	M	515	GLU
1	M	522	LEU
1	M	524	HIS
1	M	528	GLU
1	M	529	TYR
1	M	530	ARG
1	M	531	HIS
1	M	532	ILE
1	M	533	LEU
1	M	534	ASP
1	M	537	ASP
1	M	546	GLU
1	M	550	LEU
1	M	553	HIS
1	M	557	ARG
1	M	562	ASN
1	M	568	LEU
1	M	572	GLU
1	M	573	THR
1	M	575	GLU
1	M	576	VAL
1	M	578	GLN
1	M	585	LYS
1	M	586	GLN
1	M	587	GLU
1	M	596	GLU
1	M	598	ILE
1	M	600	LYS

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Mol	Chain	Res	Type
1	M	616	ASP
1	M	619	TYR
1	M	633	CYS
1	M	643	LYS
1	M	645	GLU
1	M	646	THR
1	M	649	LYS
1	M	651	LEU
1	M	654	LYS
1	M	657	GLU
1	M	658	ASP
1	M	659	GLU
1	M	879	ARG
1	M	881	HIS
1	M	882	LEU
1	M	902	ASP
1	M	907	ARG
1	M	918	SER
1	M	921	MET
1	M	925	GLU
1	M	938	LEU
1	M	940	VAL
1	M	948	LEU
1	M	999	ARG
1	M	1078	GLU
1	M	1164	LEU
1	M	1165	CYS
1	M	1168	LEU
1	M	1170	GLU
1	M	1171	GLU
1	M	1179	TRP
1	M	1181	THR
1	M	1182	ASP
1	M	1183	LEU
1	M	1192	LEU
1	M	1211	GLN
1	M	1218	THR
1	M	1219	ASN
1	M	1220	LEU
1	M	1226	SER
1	M	1229	PHE
1	M	1232	TYR

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Mol	Chain	Res	Type
1	M	1240	ILE
1	M	1245	GLN
1	M	1247	LEU
2	N	12	GLN
2	N	38	ARG
2	N	39	LYS
2	N	52	ASN
2	N	53	LYS
2	N	86	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (208) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	137	GLN
1	A	138	GLN
1	A	183	HIS
1	A	200	GLN
1	A	235	HIS
1	A	259	GLN
1	A	347	ASN
1	A	416	GLN
1	A	420	ASN
1	A	438	HIS
1	A	441	GLN
1	A	454	GLN
1	A	457	HIS
1	A	485	ASN
1	A	490	HIS
1	A	562	ASN
1	A	579	GLN
1	A	583	GLN
1	A	614	HIS
1	A	703	ASN
1	A	709	ASN
1	A	840	HIS
1	A	881	HIS
1	A	904	GLN
1	A	1126	HIS
1	A	1211	GLN
1	A	1219	ASN
1	A	1237	ASN
1	A	1245	GLN

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Mol	Chain	Res	Type
2	B	33	HIS
1	C	137	GLN
1	C	138	GLN
1	C	183	HIS
1	C	200	GLN
1	C	235	HIS
1	C	259	GLN
1	C	347	ASN
1	C	416	GLN
1	C	420	ASN
1	C	438	HIS
1	C	441	GLN
1	C	454	GLN
1	C	485	ASN
1	C	490	HIS
1	C	562	ASN
1	C	579	GLN
1	C	583	GLN
1	C	614	HIS
1	C	703	ASN
1	C	709	ASN
1	C	840	HIS
1	C	881	HIS
1	C	904	GLN
1	C	1126	HIS
1	C	1211	GLN
1	C	1219	ASN
1	C	1237	ASN
1	C	1245	GLN
2	D	33	HIS
1	E	137	GLN
1	E	138	GLN
1	E	183	HIS
1	E	200	GLN
1	E	235	HIS
1	E	259	GLN
1	E	347	ASN
1	E	416	GLN
1	E	420	ASN
1	E	438	HIS
1	E	441	GLN
1	E	454	GLN

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Mol	Chain	Res	Type
1	E	485	ASN
1	E	490	HIS
1	E	562	ASN
1	E	565	GLN
1	E	579	GLN
1	E	583	GLN
1	E	614	HIS
1	E	703	ASN
1	E	709	ASN
1	E	840	HIS
1	E	881	HIS
1	E	904	GLN
1	E	1126	HIS
1	E	1211	GLN
1	E	1219	ASN
1	E	1237	ASN
1	E	1245	GLN
2	F	33	HIS
1	G	137	GLN
1	G	138	GLN
1	G	183	HIS
1	G	200	GLN
1	G	235	HIS
1	G	259	GLN
1	G	347	ASN
1	G	416	GLN
1	G	420	ASN
1	G	438	HIS
1	G	441	GLN
1	G	454	GLN
1	G	485	ASN
1	G	490	HIS
1	G	562	ASN
1	G	579	GLN
1	G	583	GLN
1	G	614	HIS
1	G	703	ASN
1	G	709	ASN
1	G	840	HIS
1	G	881	HIS
1	G	904	GLN
1	G	1126	HIS

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Mol	Chain	Res	Type
1	G	1211	GLN
1	G	1219	ASN
1	G	1237	ASN
1	G	1245	GLN
2	H	33	HIS
1	I	137	GLN
1	I	138	GLN
1	I	183	HIS
1	I	200	GLN
1	I	235	HIS
1	I	259	GLN
1	I	347	ASN
1	I	416	GLN
1	I	420	ASN
1	I	438	HIS
1	I	441	GLN
1	I	454	GLN
1	I	457	HIS
1	I	485	ASN
1	I	490	HIS
1	I	562	ASN
1	I	565	GLN
1	I	579	GLN
1	I	583	GLN
1	I	614	HIS
1	I	703	ASN
1	I	709	ASN
1	I	840	HIS
1	I	881	HIS
1	I	904	GLN
1	I	1126	HIS
1	I	1211	GLN
1	I	1219	ASN
1	I	1237	ASN
1	I	1245	GLN
2	J	33	HIS
1	K	137	GLN
1	K	138	GLN
1	K	183	HIS
1	K	200	GLN
1	K	235	HIS
1	K	259	GLN

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Mol	Chain	Res	Type
1	K	347	ASN
1	K	416	GLN
1	K	420	ASN
1	K	438	HIS
1	K	441	GLN
1	K	454	GLN
1	K	485	ASN
1	K	490	HIS
1	K	562	ASN
1	K	565	GLN
1	K	579	GLN
1	K	583	GLN
1	K	614	HIS
1	K	703	ASN
1	K	709	ASN
1	K	840	HIS
1	K	881	HIS
1	K	904	GLN
1	K	1126	HIS
1	K	1211	GLN
1	K	1219	ASN
1	K	1237	ASN
1	K	1245	GLN
2	L	33	HIS
1	M	137	GLN
1	M	138	GLN
1	M	183	HIS
1	M	200	GLN
1	M	235	HIS
1	M	259	GLN
1	M	347	ASN
1	M	416	GLN
1	M	420	ASN
1	M	438	HIS
1	M	441	GLN
1	M	454	GLN
1	M	485	ASN
1	M	490	HIS
1	M	562	ASN
1	M	579	GLN
1	M	583	GLN
1	M	614	HIS

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Mol	Chain	Res	Type
1	M	703	ASN
1	M	709	ASN
1	M	840	HIS
1	M	881	HIS
1	M	904	GLN
1	M	1126	HIS
1	M	1211	GLN
1	M	1219	ASN
1	M	1237	ASN
1	M	1245	GLN
2	N	33	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 21 ligands modelled in this entry, 7 are monoatomic - leaving 14 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	DTP	C	1301	4	26,32,32	0.86	1 (3%)	30,50,50	1.56	4 (13%)
5	HEM	N	201	2	41,50,50	1.31	6 (14%)	45,82,82	1.74	6 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	HEM	L	201	2	41,50,50	1.32	6 (14%)	45,82,82	1.73	6 (13%)
5	HEM	F	201	2	41,50,50	1.31	5 (12%)	45,82,82	1.73	6 (13%)
3	DTP	E	1301	4	26,32,32	0.87	1 (3%)	30,50,50	1.56	4 (13%)
3	DTP	M	1301	4	26,32,32	0.86	1 (3%)	30,50,50	1.56	4 (13%)
5	HEM	D	201	2	41,50,50	1.31	6 (14%)	45,82,82	1.73	6 (13%)
5	HEM	J	201	2	41,50,50	1.32	6 (14%)	45,82,82	1.73	6 (13%)
5	HEM	B	201	2	41,50,50	1.31	6 (14%)	45,82,82	1.73	6 (13%)
3	DTP	G	1301	4	26,32,32	0.87	1 (3%)	30,50,50	1.56	4 (13%)
3	DTP	K	1301	4	26,32,32	0.86	1 (3%)	30,50,50	1.56	4 (13%)
3	DTP	A	1301	4	26,32,32	0.86	1 (3%)	30,50,50	1.56	4 (13%)
5	HEM	H	201	2	41,50,50	1.32	6 (14%)	45,82,82	1.73	6 (13%)
3	DTP	I	1301	4	26,32,32	0.86	1 (3%)	30,50,50	1.56	4 (13%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	DTP	C	1301	4	-	5/18/34/34	0/3/3/3
5	HEM	N	201	2	-	7/12/54/54	-
5	HEM	L	201	2	-	7/12/54/54	-
5	HEM	F	201	2	-	7/12/54/54	-
3	DTP	E	1301	4	-	5/18/34/34	0/3/3/3
3	DTP	M	1301	4	-	5/18/34/34	0/3/3/3
5	HEM	D	201	2	-	7/12/54/54	-
5	HEM	J	201	2	-	7/12/54/54	-
5	HEM	B	201	2	-	7/12/54/54	-
3	DTP	G	1301	4	-	5/18/34/34	0/3/3/3
3	DTP	K	1301	4	-	5/18/34/34	0/3/3/3
3	DTP	A	1301	4	-	5/18/34/34	0/3/3/3
5	HEM	H	201	2	-	7/12/54/54	-
3	DTP	I	1301	4	-	5/18/34/34	0/3/3/3

All (48) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	J	201	HEM	C1B-NB	-3.40	1.34	1.40
5	H	201	HEM	C1B-NB	-3.38	1.34	1.40
5	L	201	HEM	C1B-NB	-3.37	1.34	1.40
5	N	201	HEM	C1B-NB	-3.37	1.34	1.40
5	F	201	HEM	C1B-NB	-3.35	1.34	1.40
5	B	201	HEM	C1B-NB	-3.35	1.34	1.40
5	D	201	HEM	C1B-NB	-3.34	1.34	1.40
5	H	201	HEM	C4D-ND	-3.24	1.34	1.40
5	F	201	HEM	C4D-ND	-3.23	1.34	1.40
5	B	201	HEM	C4D-ND	-3.21	1.34	1.40
5	J	201	HEM	C4D-ND	-3.20	1.34	1.40
5	D	201	HEM	C4D-ND	-3.20	1.34	1.40
5	L	201	HEM	C4D-ND	-3.18	1.34	1.40
5	N	201	HEM	C4D-ND	-3.16	1.34	1.40
5	B	201	HEM	FE-NB	2.79	2.10	1.96
5	J	201	HEM	FE-NB	2.79	2.10	1.96
5	H	201	HEM	FE-NB	2.78	2.10	1.96
5	D	201	HEM	FE-NB	2.78	2.10	1.96
5	L	201	HEM	FE-NB	2.78	2.10	1.96
5	N	201	HEM	FE-NB	2.78	2.10	1.96
5	F	201	HEM	FE-NB	2.77	2.10	1.96
3	G	1301	DTP	C5-C4	2.50	1.47	1.40
3	I	1301	DTP	C5-C4	2.49	1.47	1.40
3	E	1301	DTP	C5-C4	2.49	1.47	1.40
3	A	1301	DTP	C5-C4	2.49	1.47	1.40
3	K	1301	DTP	C5-C4	2.48	1.47	1.40
3	C	1301	DTP	C5-C4	2.48	1.47	1.40
3	M	1301	DTP	C5-C4	2.48	1.47	1.40
5	J	201	HEM	CHB-C1B	2.26	1.40	1.35
5	L	201	HEM	CHB-C1B	2.26	1.40	1.35
5	H	201	HEM	CHB-C1B	2.24	1.40	1.35
5	N	201	HEM	CHB-C1B	2.24	1.40	1.35
5	F	201	HEM	CHB-C1B	2.22	1.40	1.35
5	B	201	HEM	CHB-C1B	2.22	1.40	1.35
5	D	201	HEM	CHB-C1B	2.21	1.40	1.35
5	N	201	HEM	C1D-ND	-2.08	1.34	1.38
5	L	201	HEM	C1D-ND	-2.06	1.34	1.38
5	F	201	HEM	C1D-ND	-2.04	1.34	1.38
5	D	201	HEM	C1D-ND	-2.04	1.34	1.38
5	J	201	HEM	C1D-ND	-2.04	1.34	1.38
5	H	201	HEM	C1D-ND	-2.03	1.34	1.38
5	B	201	HEM	C1D-ND	-2.02	1.34	1.38
5	B	201	HEM	FE-ND	-2.01	1.86	1.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	J	201	HEM	FE-ND	-2.01	1.86	1.96
5	L	201	HEM	FE-ND	-2.00	1.87	1.96
5	D	201	HEM	FE-ND	-2.00	1.87	1.96
5	N	201	HEM	FE-ND	-2.00	1.87	1.96
5	H	201	HEM	FE-ND	-2.00	1.87	1.96

All (70) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	J	201	HEM	CHC-C4B-NB	4.71	129.54	124.43
5	N	201	HEM	CHC-C4B-NB	4.70	129.53	124.43
5	L	201	HEM	CHC-C4B-NB	4.69	129.52	124.43
5	H	201	HEM	CHC-C4B-NB	4.67	129.51	124.43
5	D	201	HEM	CHC-C4B-NB	4.65	129.49	124.43
5	N	201	HEM	C1B-NB-C4B	4.65	109.88	105.07
5	L	201	HEM	C1B-NB-C4B	4.65	109.87	105.07
5	B	201	HEM	CHC-C4B-NB	4.64	129.47	124.43
5	D	201	HEM	C1B-NB-C4B	4.64	109.86	105.07
5	F	201	HEM	CHC-C4B-NB	4.64	129.47	124.43
5	B	201	HEM	C1B-NB-C4B	4.64	109.86	105.07
5	J	201	HEM	C1B-NB-C4B	4.63	109.86	105.07
5	H	201	HEM	C1B-NB-C4B	4.63	109.85	105.07
5	F	201	HEM	C1B-NB-C4B	4.61	109.83	105.07
3	E	1301	DTP	PB-O3B-PG	-3.59	120.50	132.83
3	A	1301	DTP	PA-O3A-PB	-3.59	120.51	132.83
3	C	1301	DTP	PB-O3B-PG	-3.59	120.51	132.83
3	C	1301	DTP	PA-O3A-PB	-3.59	120.52	132.83
3	A	1301	DTP	PB-O3B-PG	-3.59	120.52	132.83
3	E	1301	DTP	PA-O3A-PB	-3.58	120.53	132.83
3	I	1301	DTP	PB-O3B-PG	-3.58	120.54	132.83
3	G	1301	DTP	PB-O3B-PG	-3.58	120.54	132.83
3	G	1301	DTP	PA-O3A-PB	-3.58	120.55	132.83
3	M	1301	DTP	PB-O3B-PG	-3.58	120.56	132.83
3	K	1301	DTP	PB-O3B-PG	-3.57	120.56	132.83
3	M	1301	DTP	PA-O3A-PB	-3.57	120.56	132.83
3	K	1301	DTP	PA-O3A-PB	-3.57	120.56	132.83
3	I	1301	DTP	PA-O3A-PB	-3.57	120.59	132.83
5	J	201	HEM	CHD-C1D-ND	3.47	128.20	124.43
5	H	201	HEM	CHD-C1D-ND	3.45	128.18	124.43
5	F	201	HEM	CHD-C1D-ND	3.44	128.17	124.43
5	L	201	HEM	CHD-C1D-ND	3.44	128.17	124.43
5	N	201	HEM	CHD-C1D-ND	3.44	128.17	124.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	201	HEM	CHD-C1D-ND	3.43	128.16	124.43
5	D	201	HEM	CHD-C1D-ND	3.43	128.16	124.43
5	N	201	HEM	CHA-C4D-ND	3.27	128.42	124.38
5	D	201	HEM	CHA-C4D-ND	3.27	128.42	124.38
5	F	201	HEM	CHA-C4D-ND	3.27	128.42	124.38
5	L	201	HEM	CHA-C4D-ND	3.26	128.41	124.38
5	J	201	HEM	CHA-C4D-ND	3.25	128.40	124.38
5	H	201	HEM	CHA-C4D-ND	3.24	128.39	124.38
5	B	201	HEM	CHA-C4D-ND	3.23	128.38	124.38
3	C	1301	DTP	N3-C2-N1	-3.19	123.70	128.68
3	A	1301	DTP	N3-C2-N1	-3.18	123.71	128.68
3	G	1301	DTP	N3-C2-N1	-3.18	123.71	128.68
3	E	1301	DTP	N3-C2-N1	-3.18	123.72	128.68
3	M	1301	DTP	N3-C2-N1	-3.18	123.72	128.68
3	K	1301	DTP	N3-C2-N1	-3.17	123.72	128.68
3	I	1301	DTP	N3-C2-N1	-3.17	123.72	128.68
5	F	201	HEM	C4D-ND-C1D	3.10	108.28	105.07
5	D	201	HEM	C4D-ND-C1D	3.10	108.27	105.07
5	J	201	HEM	C4D-ND-C1D	3.09	108.27	105.07
5	N	201	HEM	C4D-ND-C1D	3.09	108.27	105.07
5	L	201	HEM	C4D-ND-C1D	3.08	108.26	105.07
5	H	201	HEM	C4D-ND-C1D	3.08	108.25	105.07
5	B	201	HEM	C4D-ND-C1D	3.07	108.25	105.07
3	M	1301	DTP	C4-C5-N7	-2.75	106.53	109.40
3	C	1301	DTP	C4-C5-N7	-2.74	106.55	109.40
3	E	1301	DTP	C4-C5-N7	-2.73	106.56	109.40
3	G	1301	DTP	C4-C5-N7	-2.73	106.56	109.40
3	A	1301	DTP	C4-C5-N7	-2.72	106.56	109.40
3	K	1301	DTP	C4-C5-N7	-2.72	106.56	109.40
3	I	1301	DTP	C4-C5-N7	-2.72	106.57	109.40
5	B	201	HEM	CHB-C1B-NB	2.68	127.69	124.38
5	N	201	HEM	CHB-C1B-NB	2.66	127.67	124.38
5	D	201	HEM	CHB-C1B-NB	2.66	127.66	124.38
5	L	201	HEM	CHB-C1B-NB	2.66	127.66	124.38
5	F	201	HEM	CHB-C1B-NB	2.63	127.64	124.38
5	H	201	HEM	CHB-C1B-NB	2.63	127.63	124.38
5	J	201	HEM	CHB-C1B-NB	2.62	127.62	124.38

There are no chirality outliers.

All (84) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1301	DTP	C5'-O5'-PA-O2A
3	A	1301	DTP	C5'-O5'-PA-O3A
3	C	1301	DTP	C5'-O5'-PA-O2A
3	C	1301	DTP	C5'-O5'-PA-O3A
3	E	1301	DTP	C5'-O5'-PA-O2A
3	E	1301	DTP	C5'-O5'-PA-O3A
3	G	1301	DTP	C5'-O5'-PA-O2A
3	G	1301	DTP	C5'-O5'-PA-O3A
3	I	1301	DTP	C5'-O5'-PA-O2A
3	I	1301	DTP	C5'-O5'-PA-O3A
3	K	1301	DTP	C5'-O5'-PA-O2A
3	K	1301	DTP	C5'-O5'-PA-O3A
3	M	1301	DTP	C5'-O5'-PA-O2A
3	M	1301	DTP	C5'-O5'-PA-O3A
3	A	1301	DTP	O4'-C4'-C5'-O5'
3	A	1301	DTP	C3'-C4'-C5'-O5'
3	C	1301	DTP	O4'-C4'-C5'-O5'
3	C	1301	DTP	C3'-C4'-C5'-O5'
3	E	1301	DTP	O4'-C4'-C5'-O5'
3	E	1301	DTP	C3'-C4'-C5'-O5'
3	G	1301	DTP	O4'-C4'-C5'-O5'
3	G	1301	DTP	C3'-C4'-C5'-O5'
3	I	1301	DTP	O4'-C4'-C5'-O5'
3	I	1301	DTP	C3'-C4'-C5'-O5'
3	K	1301	DTP	O4'-C4'-C5'-O5'
3	K	1301	DTP	C3'-C4'-C5'-O5'
3	M	1301	DTP	O4'-C4'-C5'-O5'
3	M	1301	DTP	C3'-C4'-C5'-O5'
5	B	201	HEM	C2B-C3B-CAB-CBB
5	D	201	HEM	C2B-C3B-CAB-CBB
5	F	201	HEM	C2B-C3B-CAB-CBB
5	H	201	HEM	C2B-C3B-CAB-CBB
5	J	201	HEM	C2B-C3B-CAB-CBB
5	L	201	HEM	C2B-C3B-CAB-CBB
5	N	201	HEM	C2B-C3B-CAB-CBB
5	B	201	HEM	C2A-CAA-CBA-CGA
5	D	201	HEM	C2A-CAA-CBA-CGA
5	F	201	HEM	C2A-CAA-CBA-CGA
5	H	201	HEM	C2A-CAA-CBA-CGA
5	J	201	HEM	C2A-CAA-CBA-CGA
5	L	201	HEM	C2A-CAA-CBA-CGA
5	N	201	HEM	C2A-CAA-CBA-CGA
5	B	201	HEM	C1A-C2A-CAA-CBA

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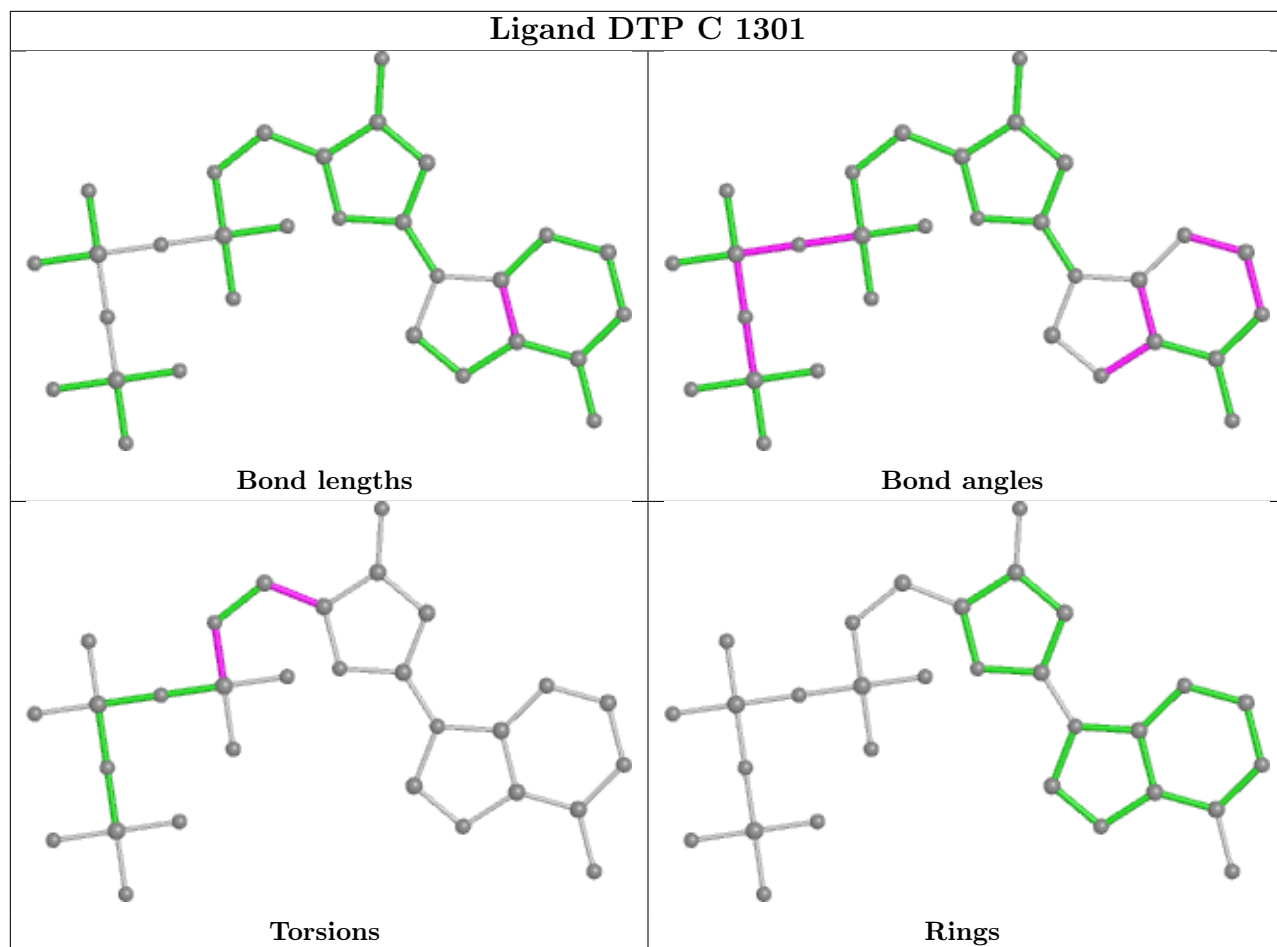
Mol	Chain	Res	Type	Atoms
5	B	201	HEM	C3A-C2A-CAA-CBA
5	D	201	HEM	C1A-C2A-CAA-CBA
5	D	201	HEM	C3A-C2A-CAA-CBA
5	F	201	HEM	C1A-C2A-CAA-CBA
5	F	201	HEM	C3A-C2A-CAA-CBA
5	H	201	HEM	C1A-C2A-CAA-CBA
5	H	201	HEM	C3A-C2A-CAA-CBA
5	J	201	HEM	C1A-C2A-CAA-CBA
5	J	201	HEM	C3A-C2A-CAA-CBA
5	L	201	HEM	C1A-C2A-CAA-CBA
5	L	201	HEM	C3A-C2A-CAA-CBA
5	N	201	HEM	C1A-C2A-CAA-CBA
5	N	201	HEM	C3A-C2A-CAA-CBA
5	B	201	HEM	C4B-C3B-CAB-CBB
5	D	201	HEM	C4B-C3B-CAB-CBB
5	F	201	HEM	C4B-C3B-CAB-CBB
5	H	201	HEM	C4B-C3B-CAB-CBB
5	J	201	HEM	C4B-C3B-CAB-CBB
5	L	201	HEM	C4B-C3B-CAB-CBB
5	N	201	HEM	C4B-C3B-CAB-CBB
5	B	201	HEM	CAA-CBA-CGA-O1A
5	D	201	HEM	CAA-CBA-CGA-O1A
5	F	201	HEM	CAA-CBA-CGA-O1A
5	H	201	HEM	CAA-CBA-CGA-O1A
5	J	201	HEM	CAA-CBA-CGA-O1A
5	L	201	HEM	CAA-CBA-CGA-O1A
5	N	201	HEM	CAA-CBA-CGA-O1A
5	D	201	HEM	CAA-CBA-CGA-O2A
5	H	201	HEM	CAA-CBA-CGA-O2A
5	B	201	HEM	CAA-CBA-CGA-O2A
5	F	201	HEM	CAA-CBA-CGA-O2A
5	J	201	HEM	CAA-CBA-CGA-O2A
5	L	201	HEM	CAA-CBA-CGA-O2A
5	N	201	HEM	CAA-CBA-CGA-O2A
3	A	1301	DTP	C5'-O5'-PA-O1A
3	C	1301	DTP	C5'-O5'-PA-O1A
3	E	1301	DTP	C5'-O5'-PA-O1A
3	G	1301	DTP	C5'-O5'-PA-O1A
3	I	1301	DTP	C5'-O5'-PA-O1A
3	K	1301	DTP	C5'-O5'-PA-O1A
3	M	1301	DTP	C5'-O5'-PA-O1A

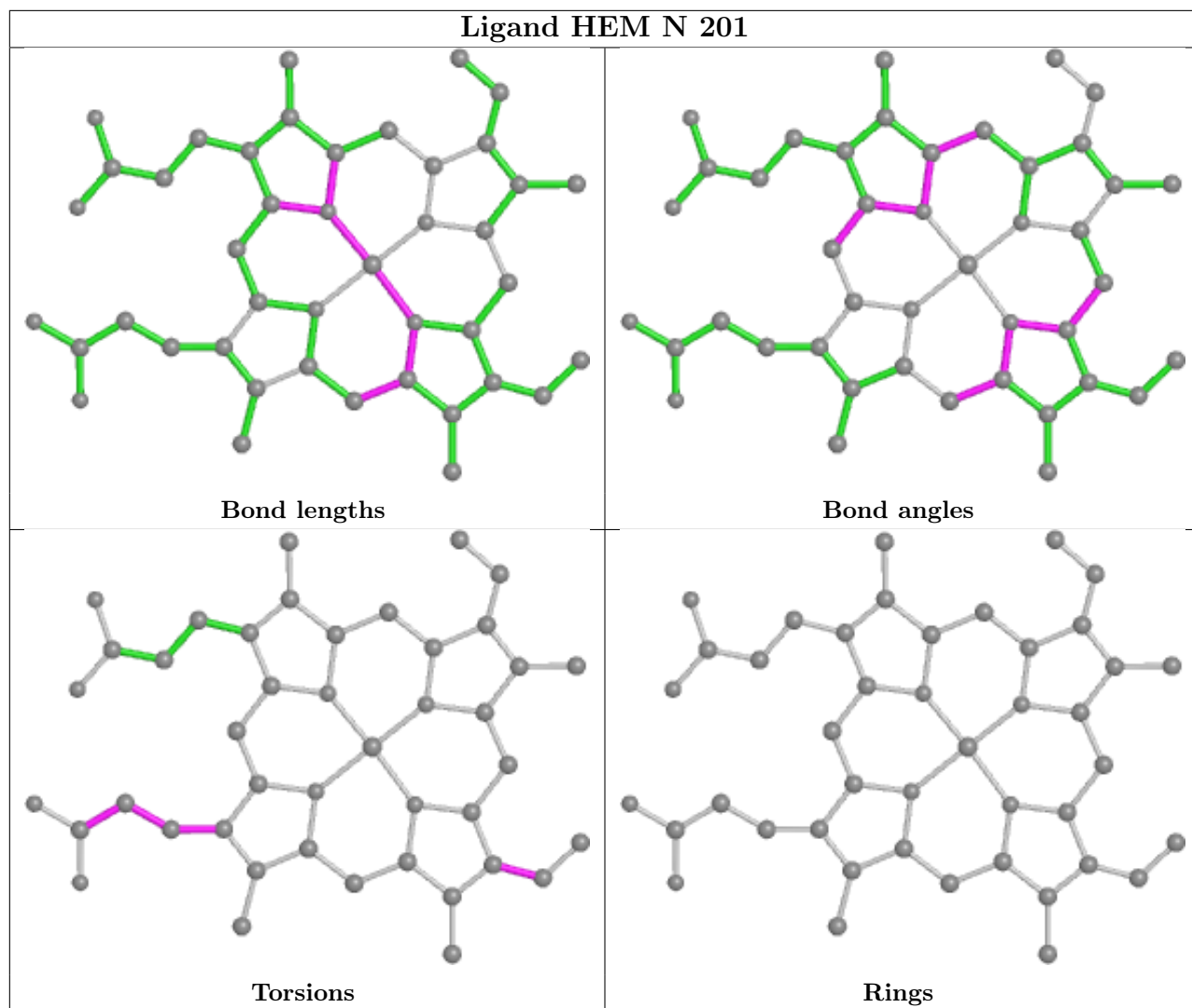
There are no ring outliers.

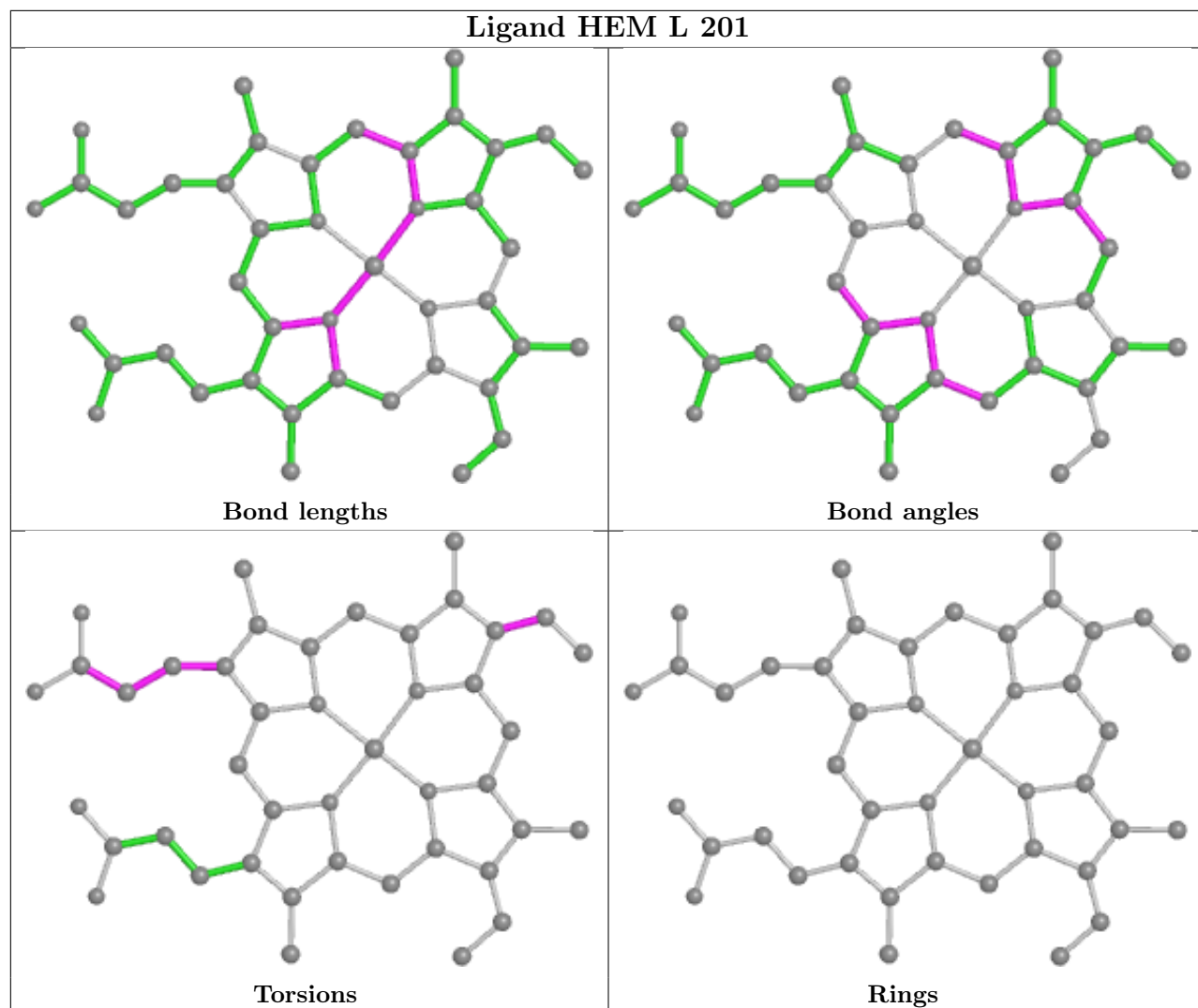
14 monomers are involved in 147 short contacts:

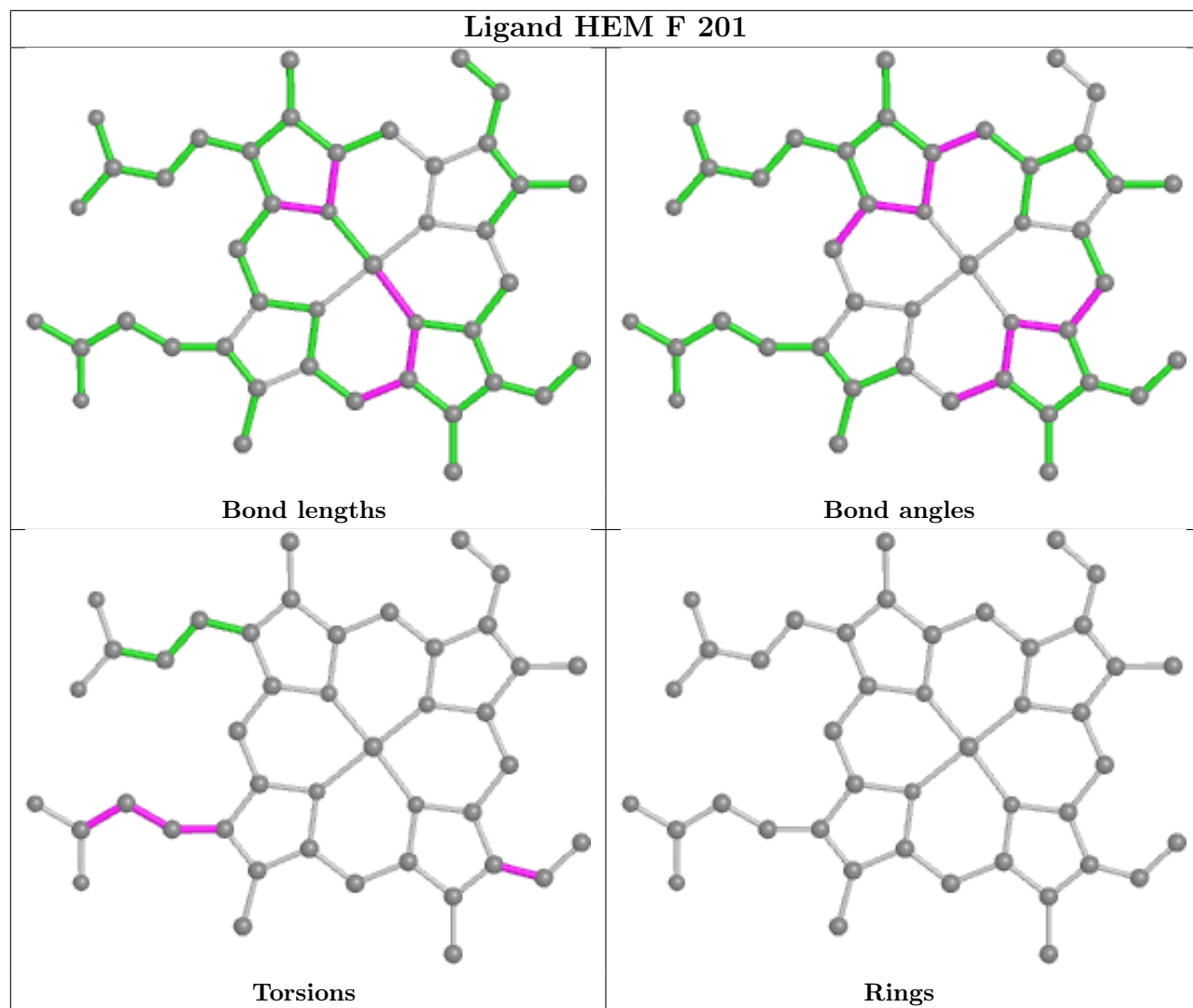
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	1301	DTP	6	0
5	N	201	HEM	13	0
5	L	201	HEM	15	0
5	F	201	HEM	14	0
3	E	1301	DTP	6	0
3	M	1301	DTP	6	0
5	D	201	HEM	16	0
5	J	201	HEM	15	0
5	B	201	HEM	15	0
3	G	1301	DTP	6	0
3	K	1301	DTP	6	0
3	A	1301	DTP	6	0
5	H	201	HEM	16	0
3	I	1301	DTP	7	0

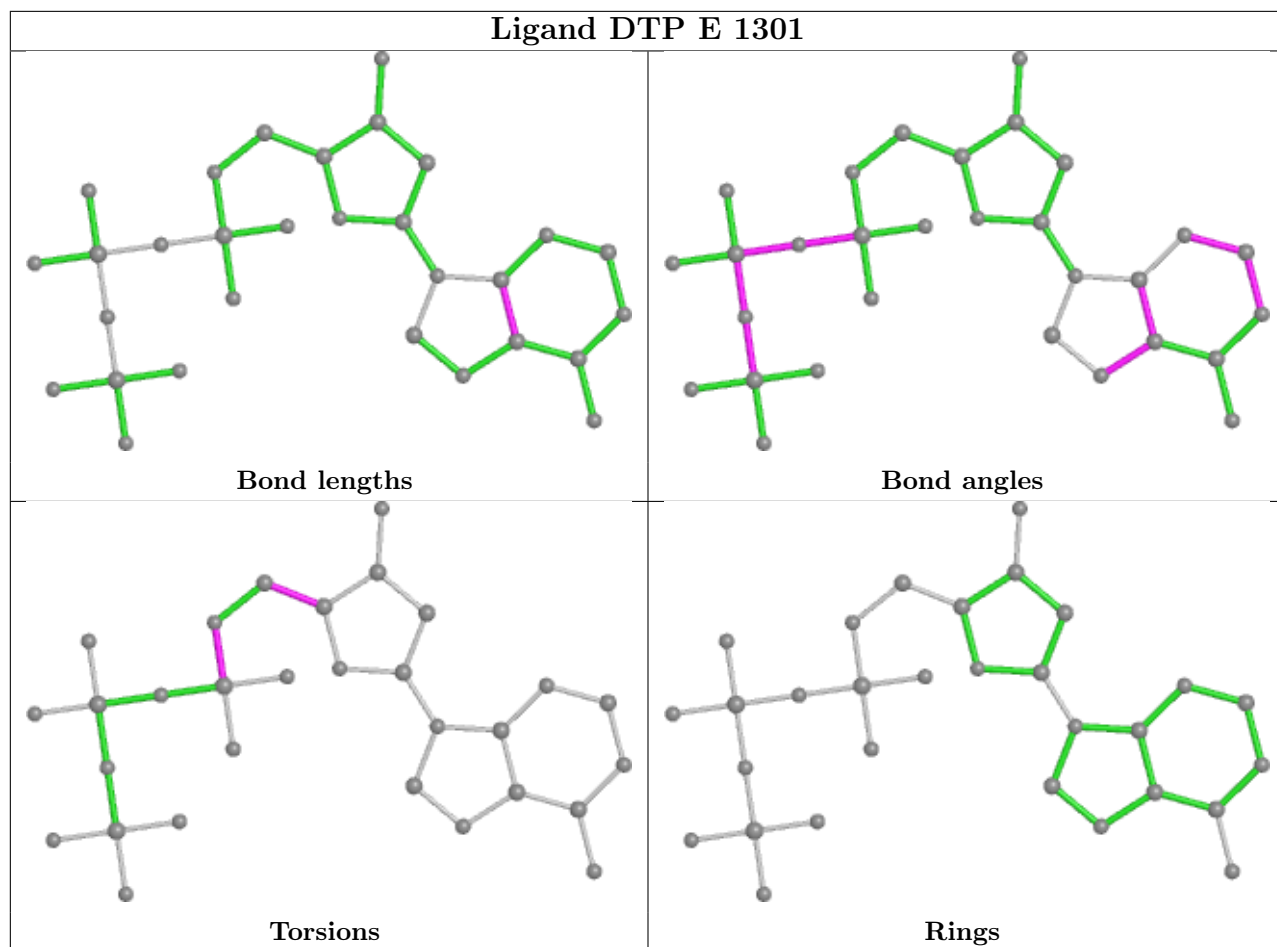
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

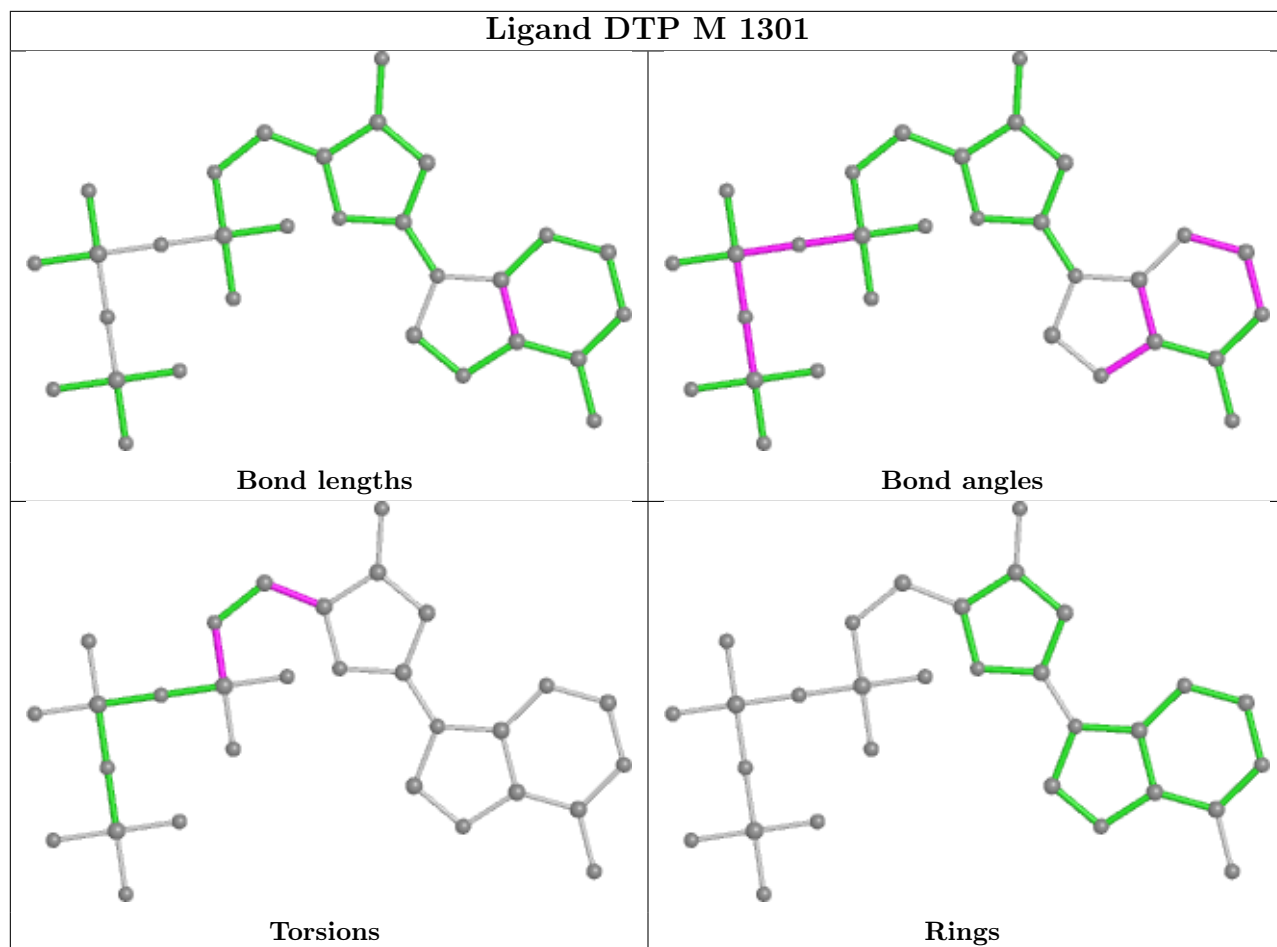


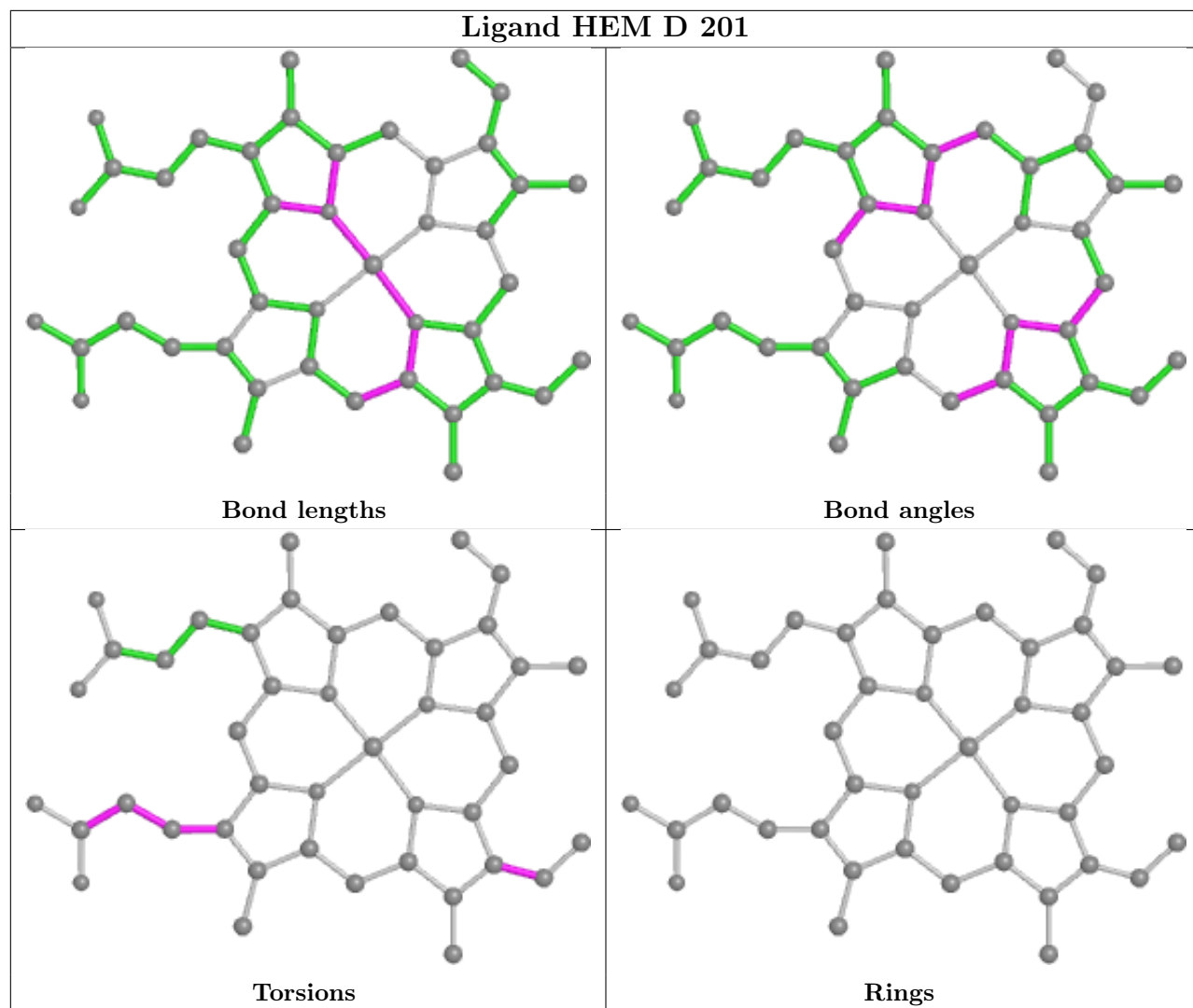


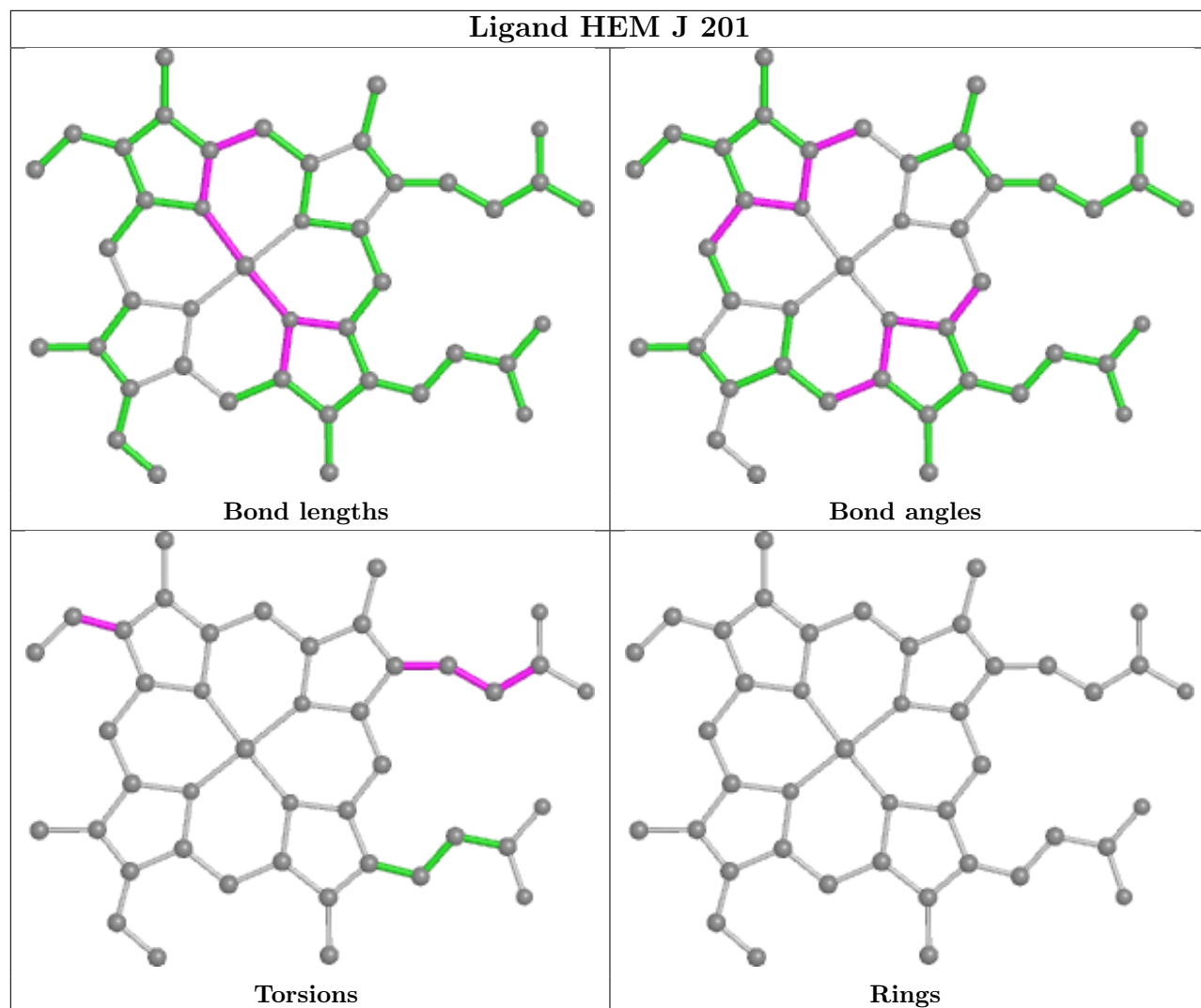


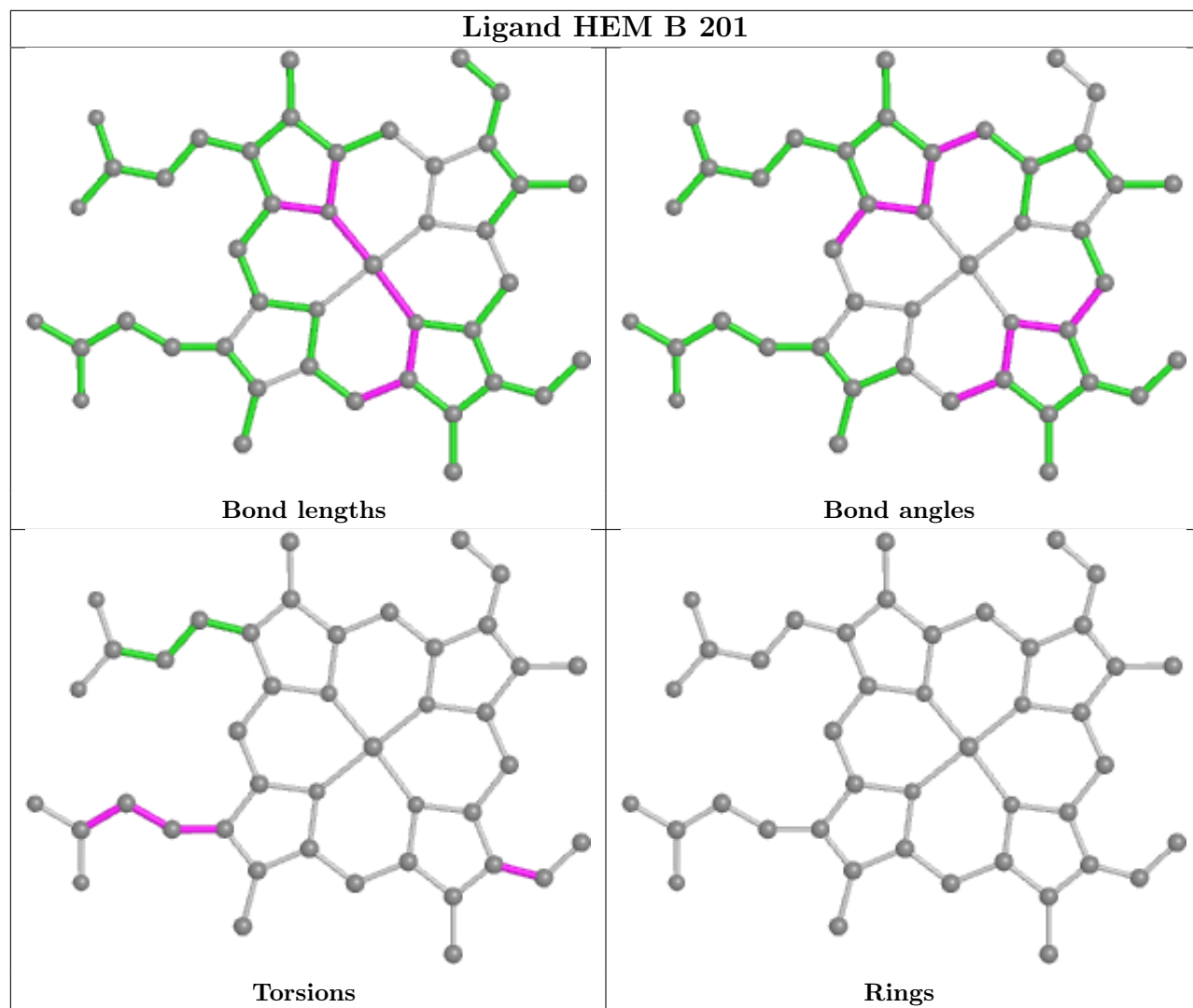


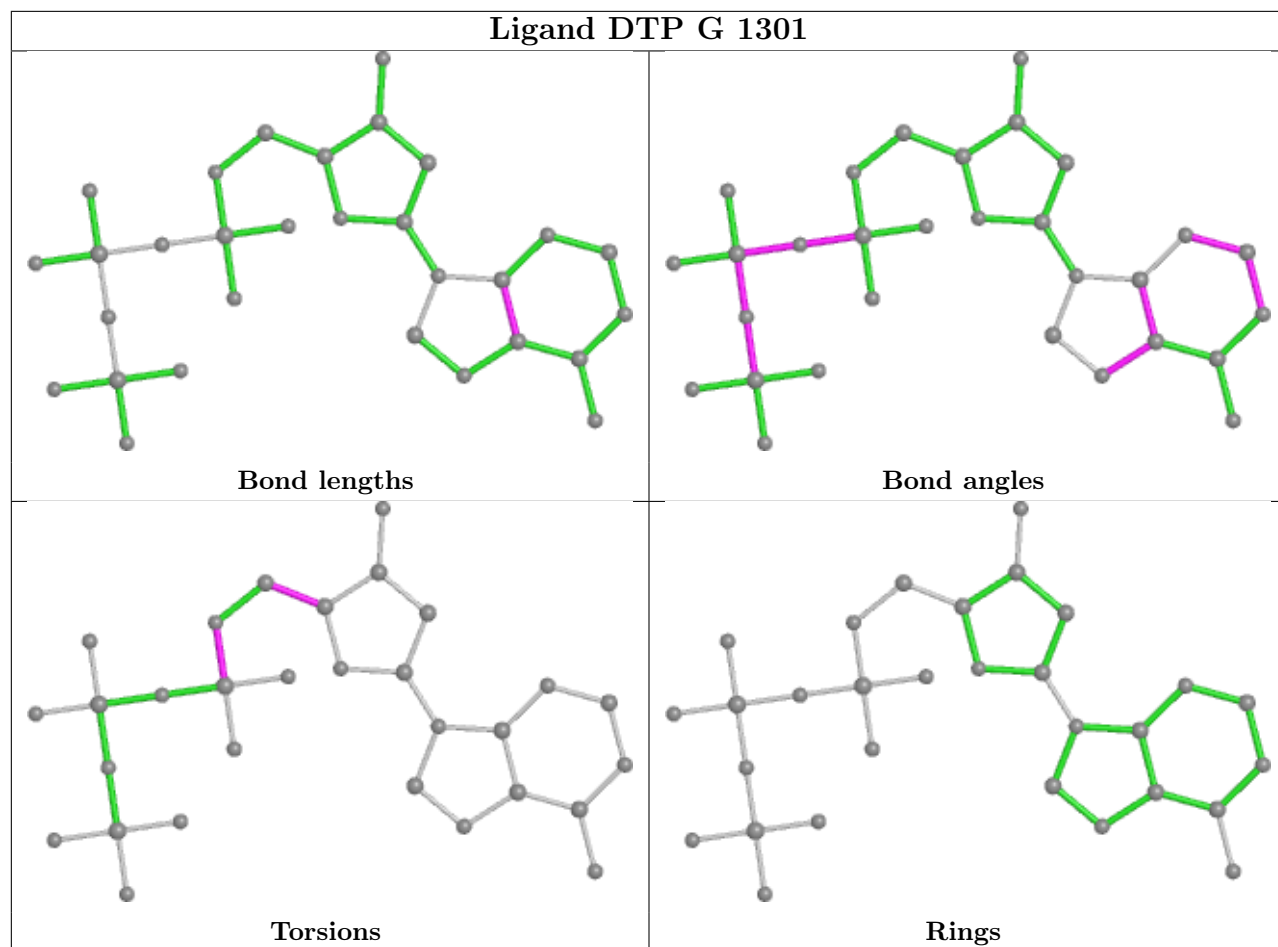


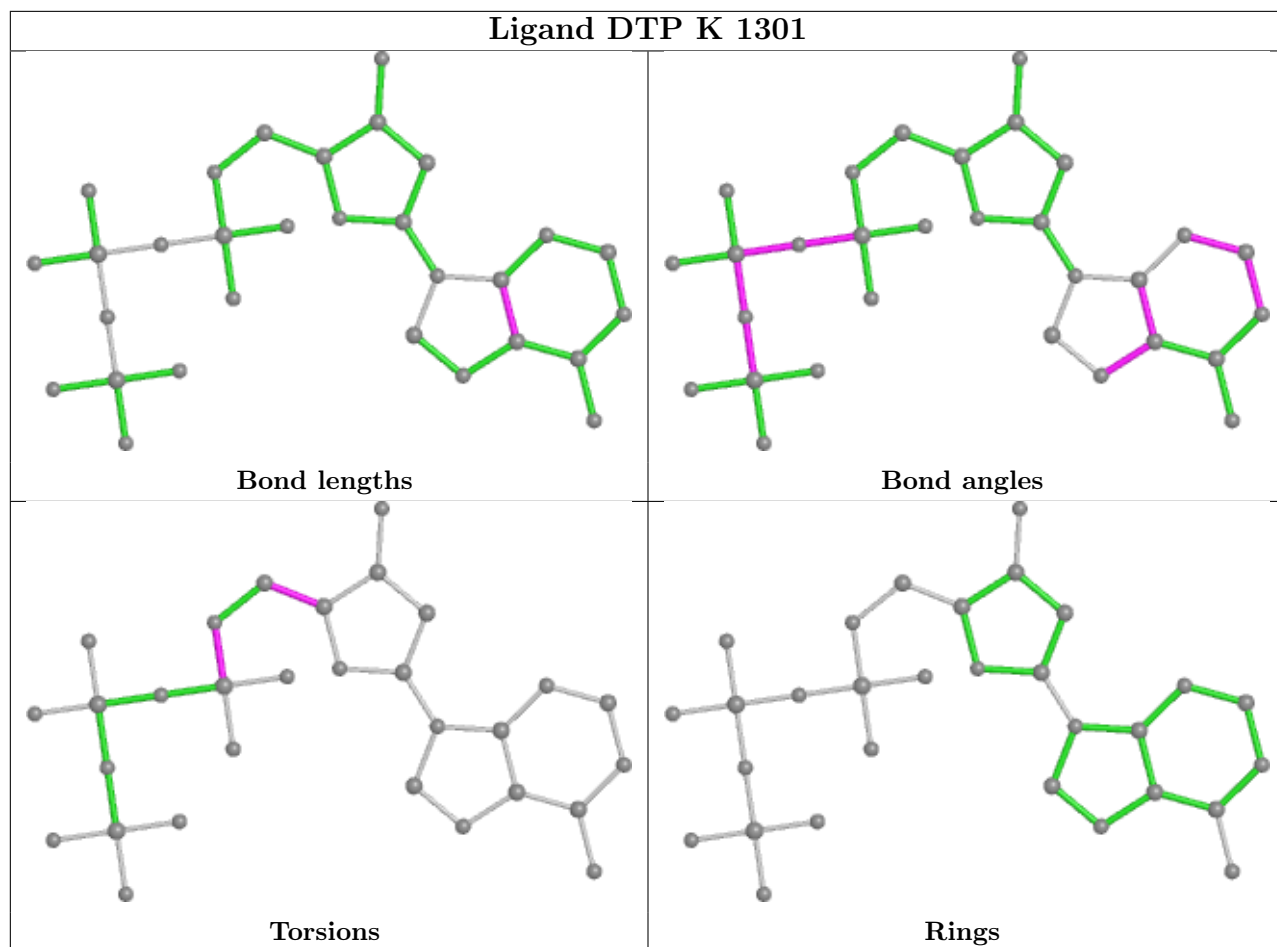


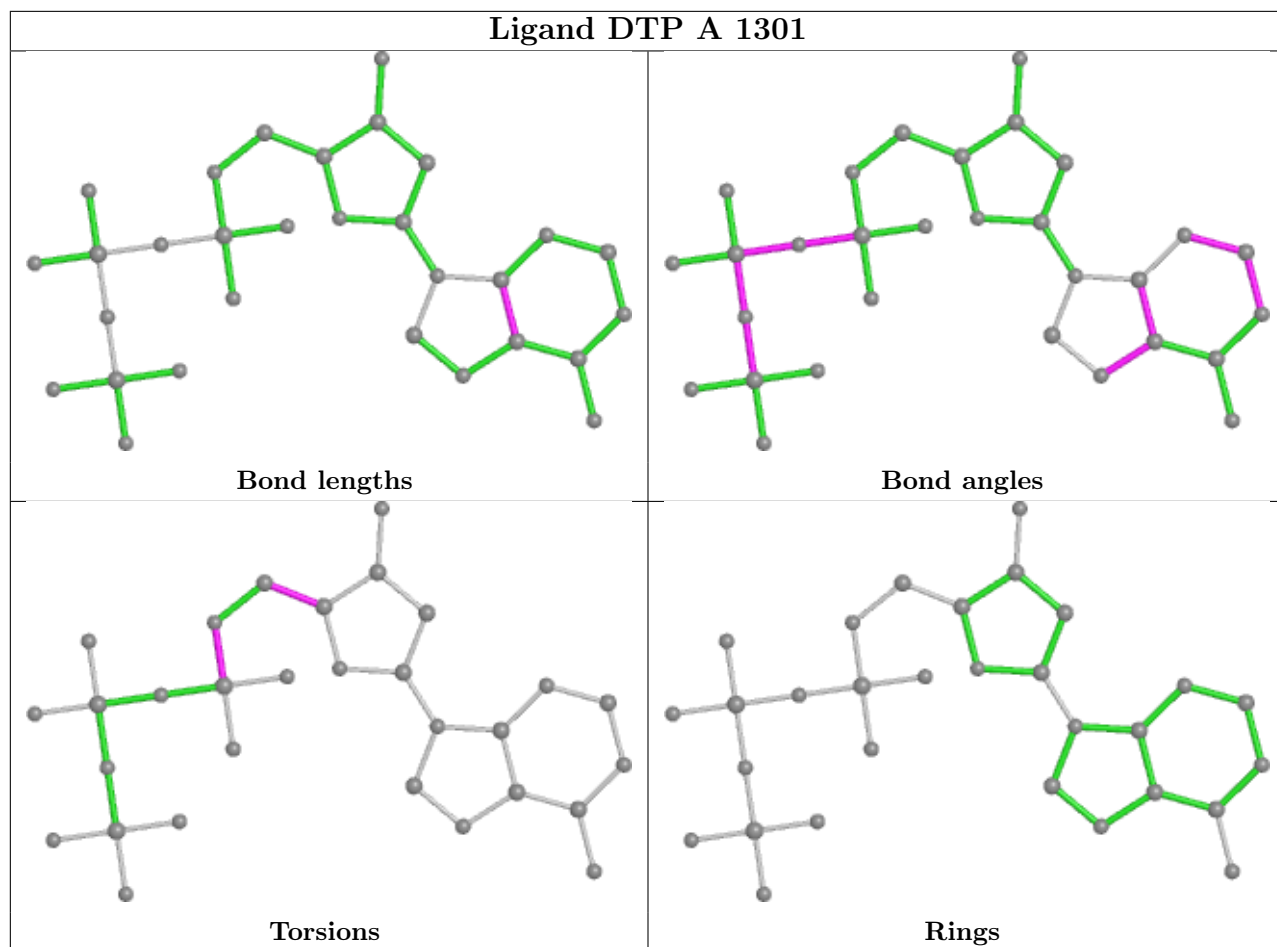


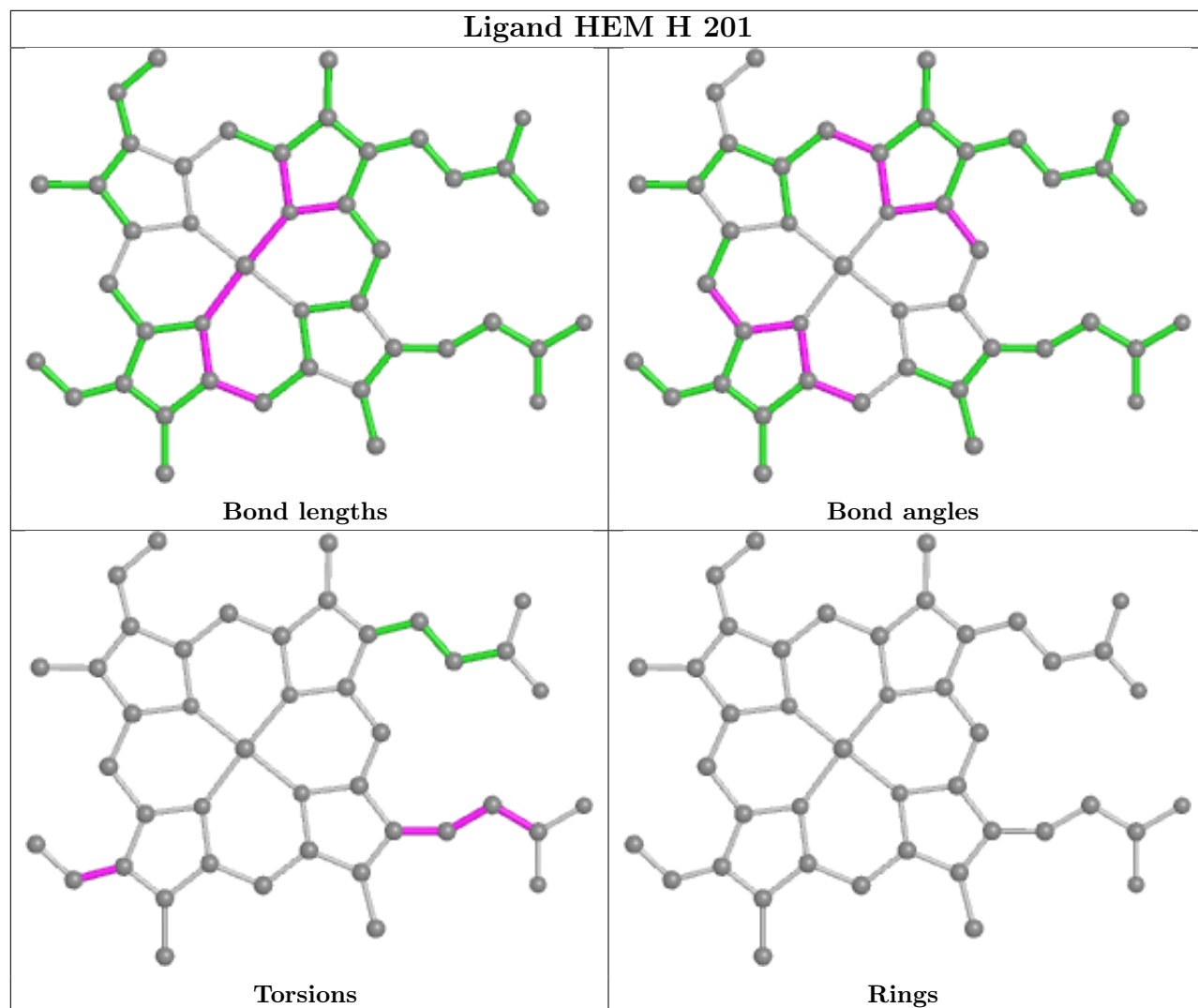


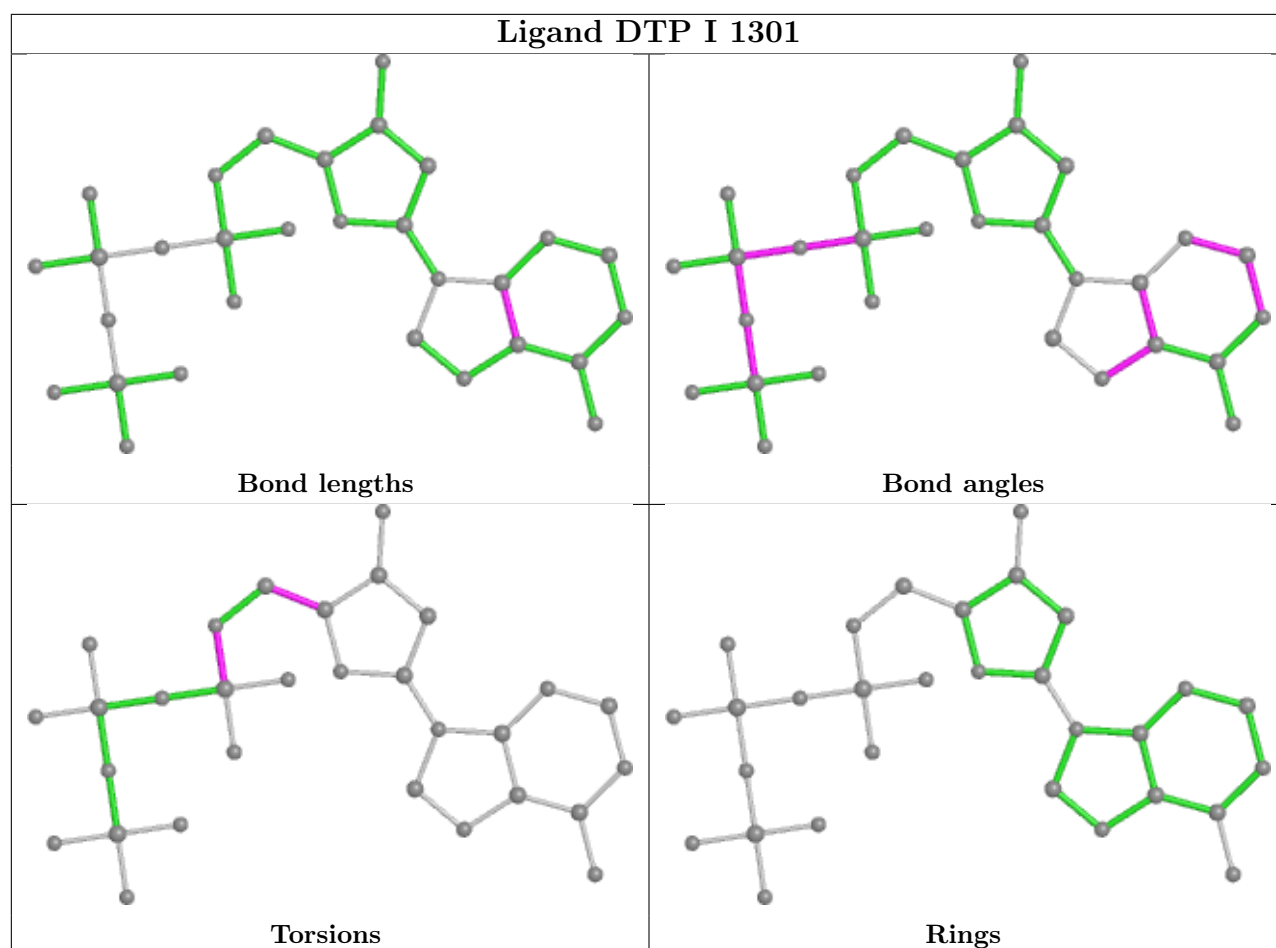












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

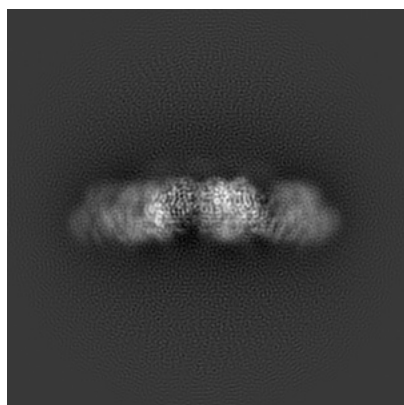
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6480. These allow visual inspection of the internal detail of the map and identification of artifacts.

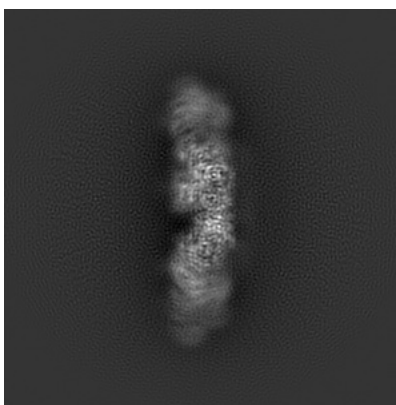
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

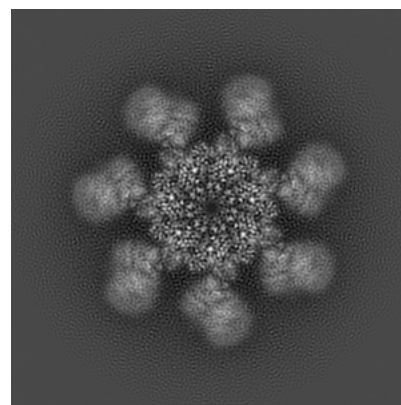
6.1.1 Primary map



X



Y



Z

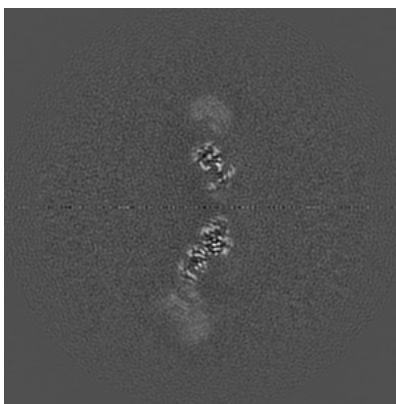
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

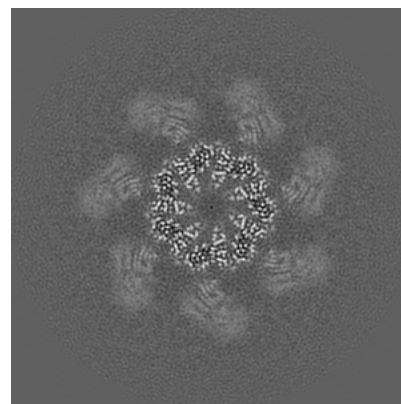
6.2.1 Primary map



X Index: 160



Y Index: 160

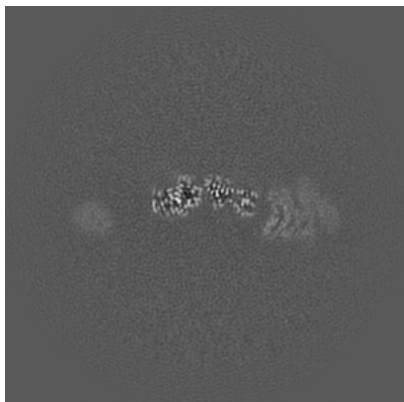


Z Index: 160

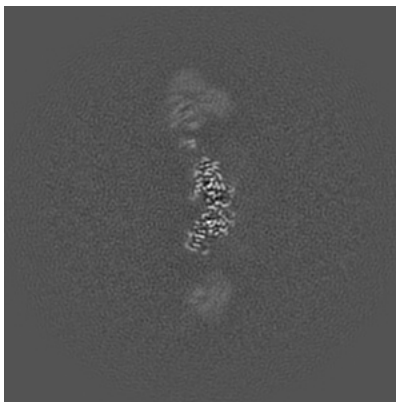
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

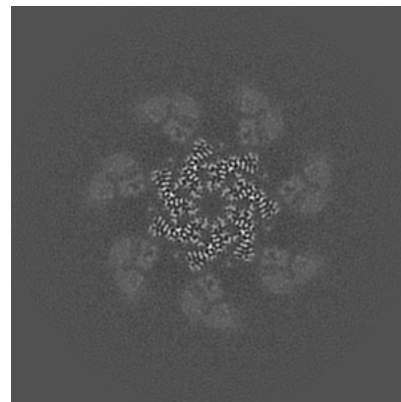
6.3.1 Primary map



X Index: 185



Y Index: 190

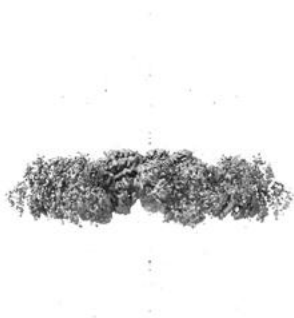


Z Index: 164

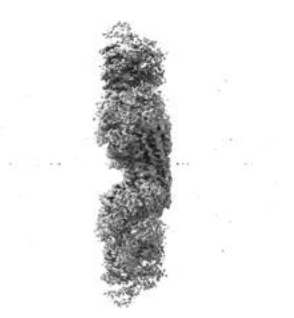
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

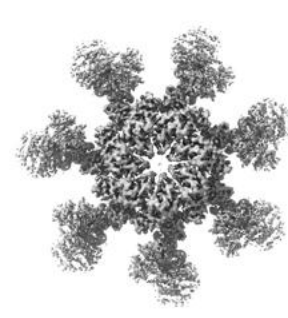
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

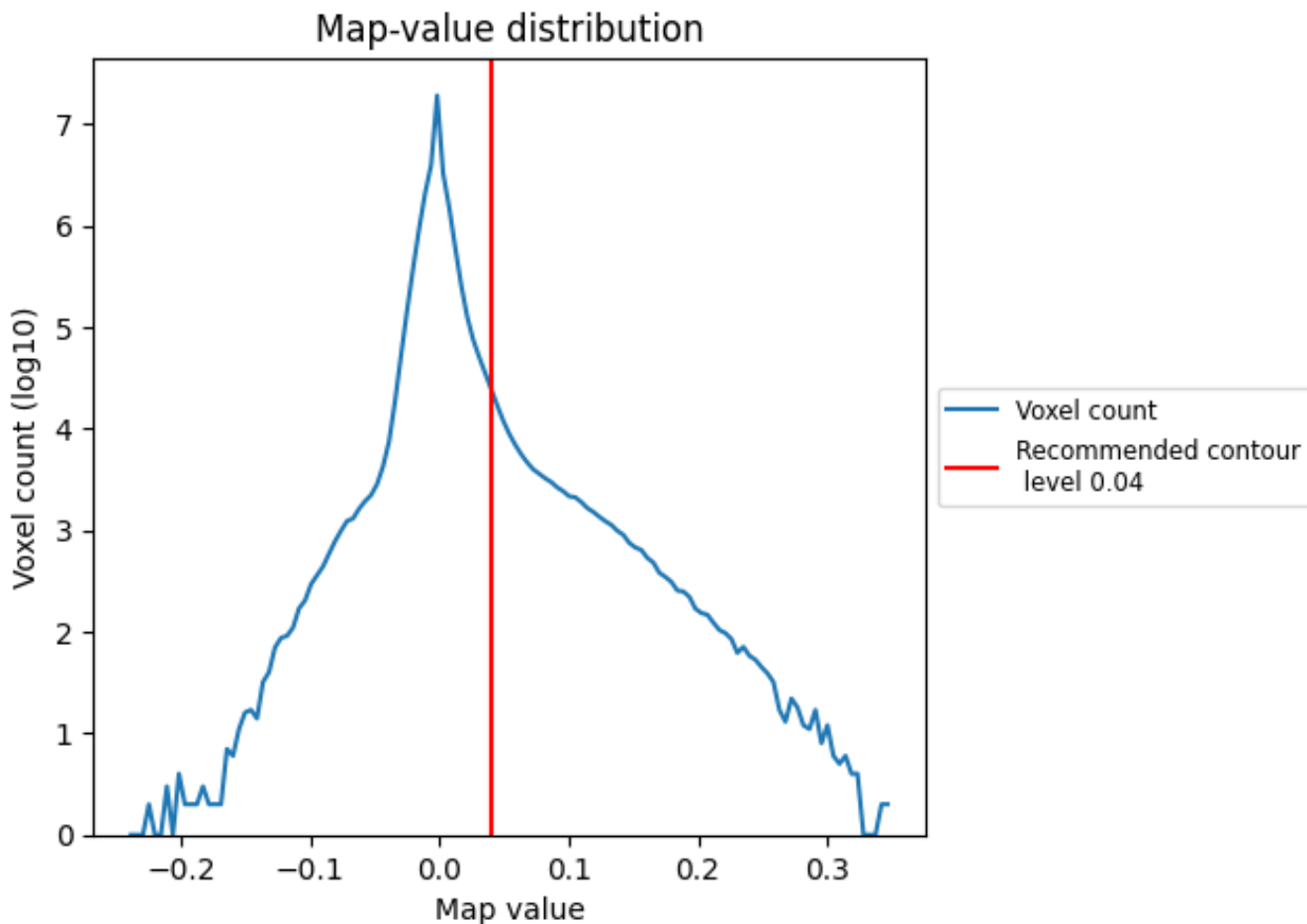
6.5 Mask visualisation

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

7 Map analysis [i](#)

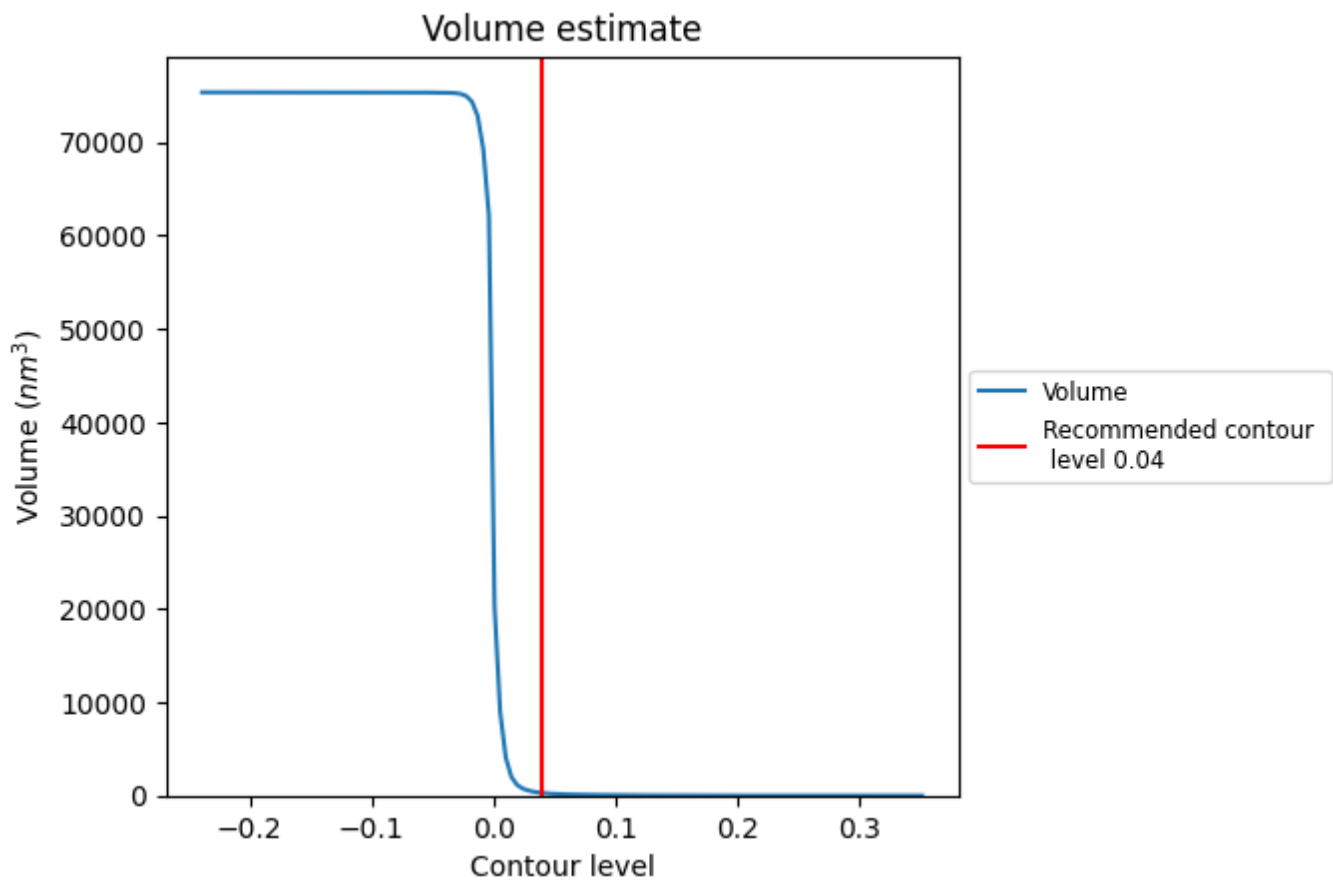
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

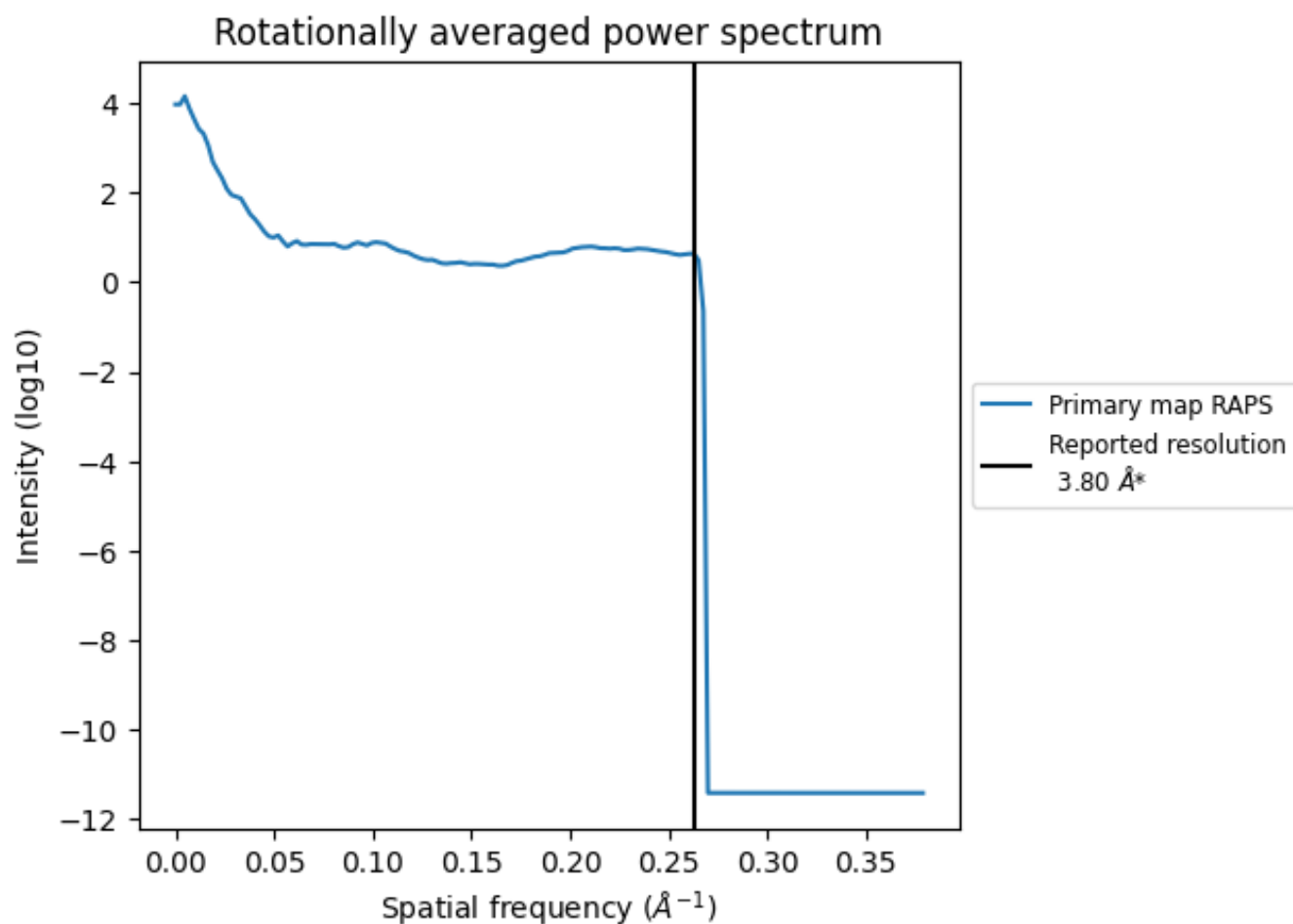
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 276 nm³; this corresponds to an approximate mass of 249 kDa.

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

7.3 Rotationally averaged power spectrum i



*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

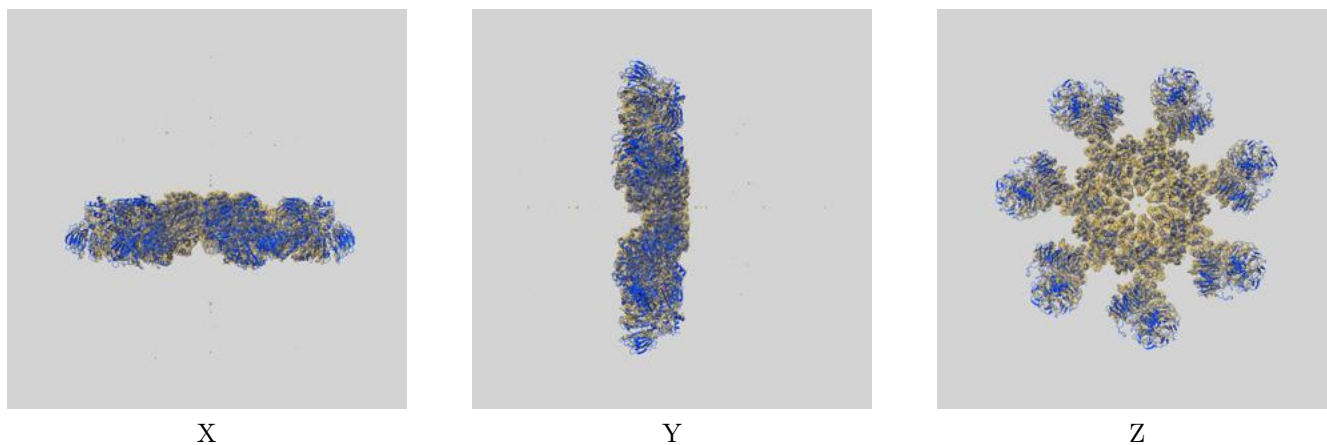
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

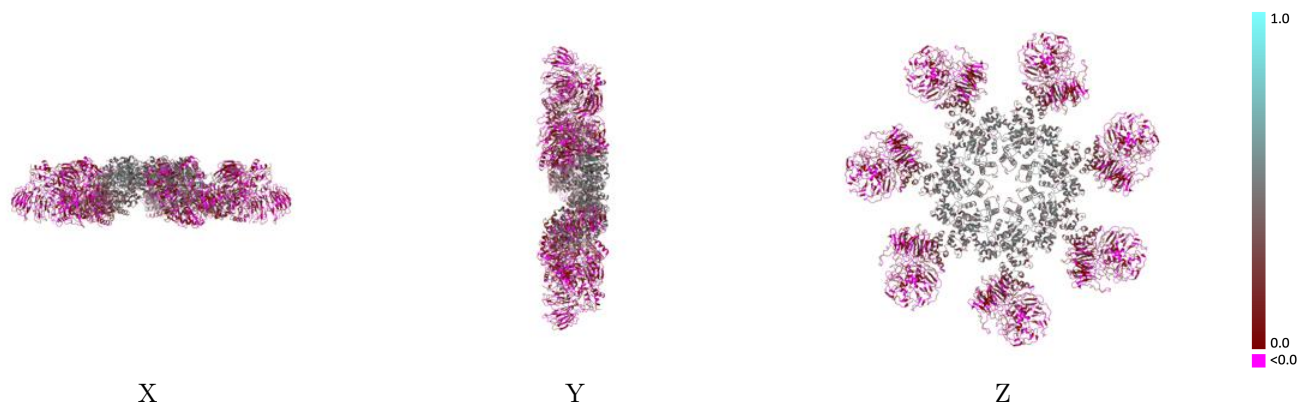
This section contains information regarding the fit between EMDB map EMD-6480 and PDB model 3JBT. Per-residue inclusion information can be found in section 3 on page 10.

9.1 Map-model overlay [i](#)



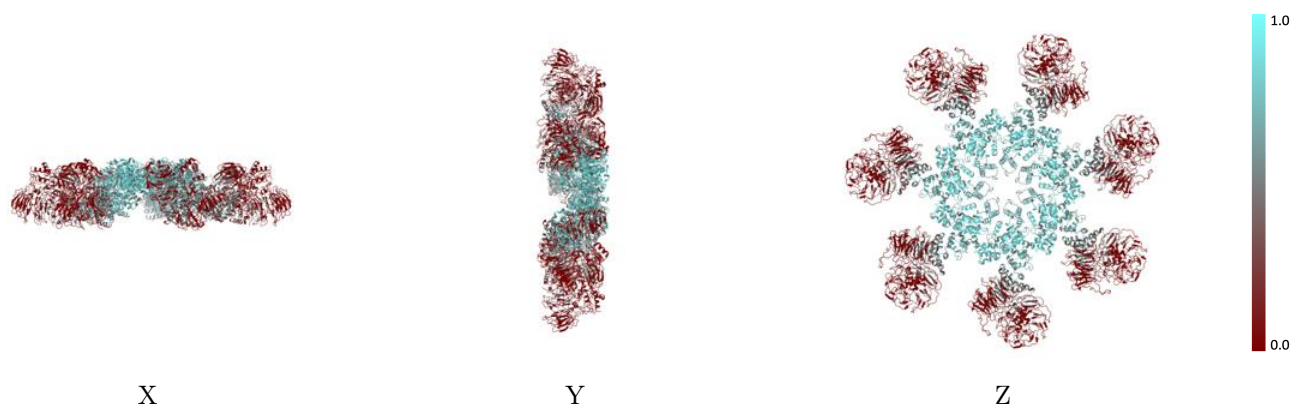
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



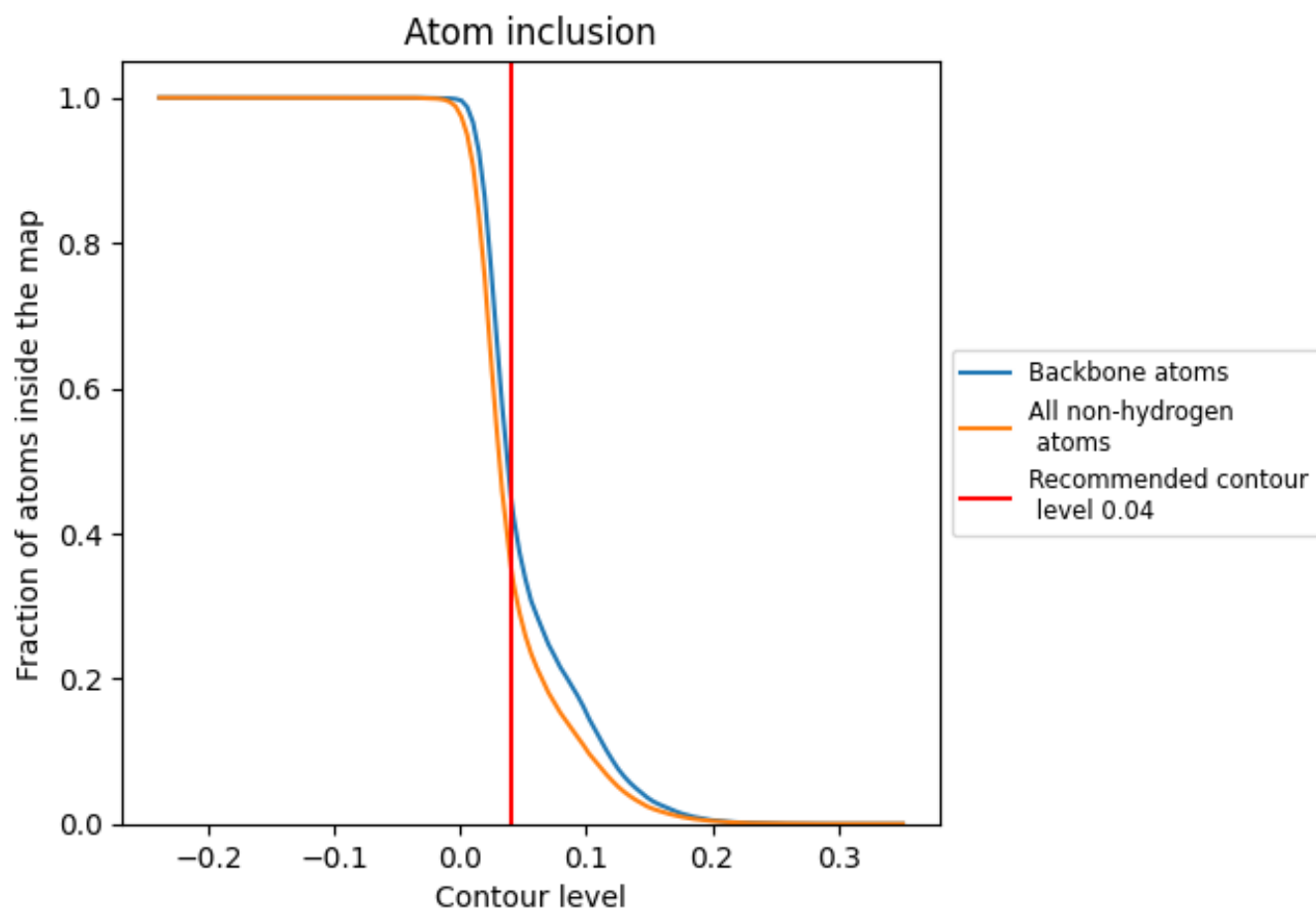
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).































9.4 Atom inclusion [i](#)



At the recommended contour level, 45% of all backbone atoms, 35% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.3547	 0.2010
A	 0.3790	 0.2120
B	 0.0961	 0.0860
C	 0.3784	 0.2120
D	 0.0938	 0.0880
E	 0.3796	 0.2120
F	 0.0985	 0.0840
G	 0.3785	 0.2110
H	 0.0985	 0.0830
I	 0.3779	 0.2110
J	 0.1032	 0.0870
K	 0.3790	 0.2110
L	 0.1008	 0.0900
M	 0.3801	 0.2110
N	 0.0973	 0.0860

