



Full wwPDB EM Validation Report ⓘ

Nov 29, 2022 – 05:29 PM JST

PDB ID : 7WOT
EMDB ID : EMD-32658
Title : Cryo-EM structure of the inner ring monomer of the *Saccharomyces cerevisiae* nuclear pore complex
Authors : Li, Z.Q.; Chen, S.J.B.; Zhao, L.; Sui, S.F.
Deposited on : 2022-01-22
Resolution : 3.73 Å(reported)

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

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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
MolProbity : 4.02b-467
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) : 2.31.3

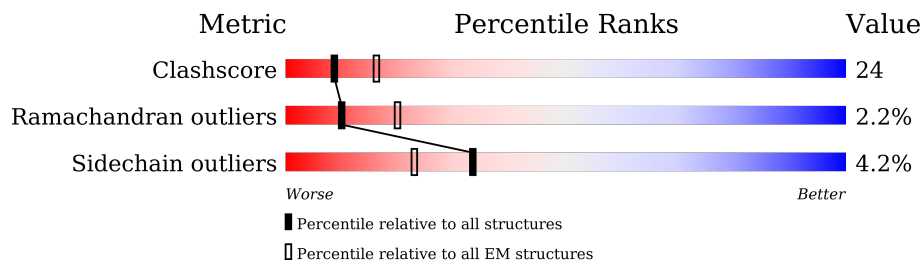
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.73 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.



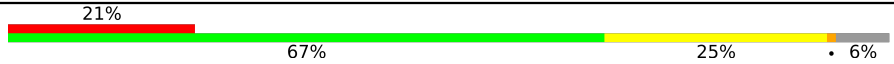


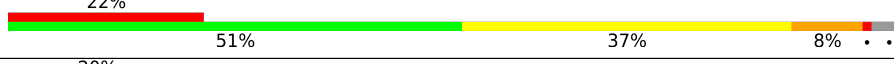










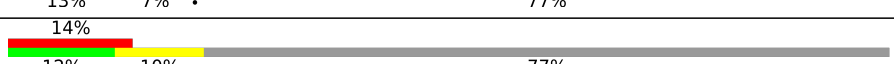
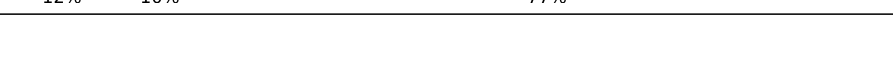
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	839	78% 54% 31% 13%
1	M	839	79% 53% 31% 13%
1	N	839	29% 51% 32% 5% 11%
1	Z	839	29% 51% 32% 5% 11%
2	C	1391	95% 88% 6% 5%
2	O	1391	95% 88% 6% 5%
3	D	1502	70% 66% 26% 7%
3	P	1502	70% 66% 26% 7%

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Mol	Chain	Length	Quality of chain
4	E	1655	
4	Q	1655	
5	F	1683	
5	R	1683	
6	G	472	
6	J	472	
6	S	472	
6	V	472	
7	H	541	
7	K	541	
7	T	541	
7	W	541	
8	I	823	
8	L	823	
8	U	823	
8	X	823	

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 133827 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 Nucleoporin NIC96.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	732	Total	C	N	O	S	0	0
			5720	3628	975	1101	16		
1	M	729	Total	C	N	O	S	0	0
			5697	3616	972	1093	16		
1	N	746	Total	C	N	O	S	0	0
			5766	3656	976	1119	15		
1	Z	746	Total	C	N	O	S	0	0
			5767	3658	976	1118	15		

- Molecule 2 is a protein called Nucleoporin NUP157.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	C	1325	Total	C	N	O	S	0	0
			10452	6664	1736	2018	34		
2	O	1325	Total	C	N	O	S	0	0
			10452	6664	1736	2018	34		

- Molecule 3 is a protein called Nucleoporin NUP170.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	D	1398	Total	C	N	O	S	0	0
			10966	7012	1811	2111	32		
3	P	1398	Total	C	N	O	S	0	0
			10956	7005	1811	2108	32		

- Molecule 4 is a protein called Nucleoporin NUP188.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	E	1552	Total	C	N	O	S	0	0
			12362	8017	1981	2337	27		
4	Q	1552	Total	C	N	O	S	0	0
			12362	8017	1981	2337	27		

- Molecule 5 is a protein called Nucleoporin NUP192.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	F	1622	Total	C	N	O	S	0	0
			12239	7813	2031	2364	31		
5	R	1622	Total	C	N	O	S	0	0
			12239	7813	2031	2364	31		

- Molecule 6 is a protein called Nucleoporin NUP49/NSP49.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	G	200	Total	C	N	O	S	0	0
			1533	973	251	307	2		
6	J	195	Total	C	N	O	S	0	0
			1492	938	251	302	1		
6	S	200	Total	C	N	O	S	0	0
			1529	970	250	307	2		
6	V	195	Total	C	N	O	S	0	0
			1492	938	251	302	1		

- Molecule 7 is a protein called Nucleoporin NUP57.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	H	246	Total	C	N	O	S	0	0
			1811	1128	332	348	3		
7	K	254	Total	C	N	O	S	0	0
			1808	1126	334	345	3		
7	T	246	Total	C	N	O	S	0	0
			1811	1128	332	348	3		
7	W	254	Total	C	N	O	S	0	0
			1805	1123	334	345	3		

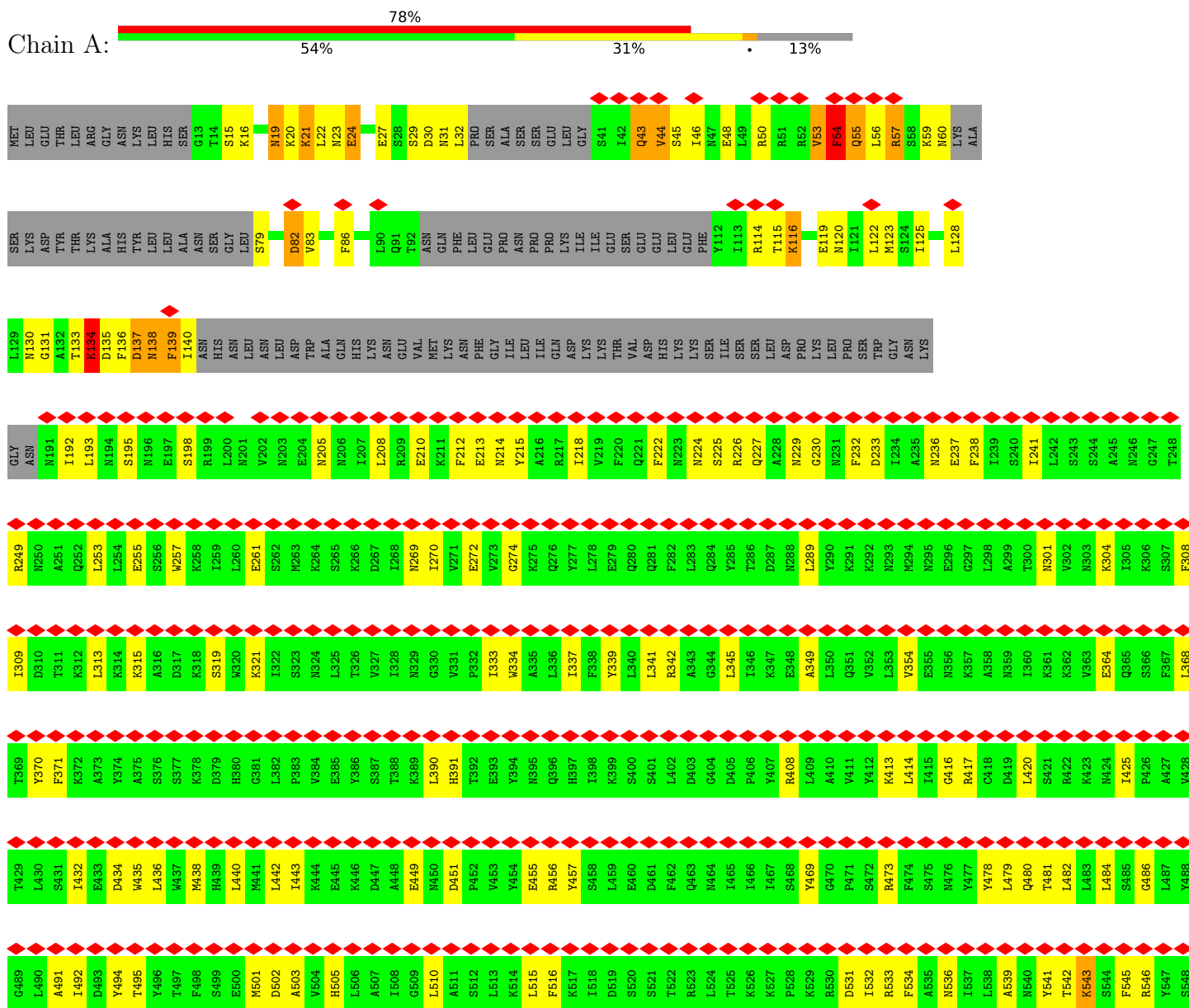
- Molecule 8 is a protein called Nucleoporin NSP1.

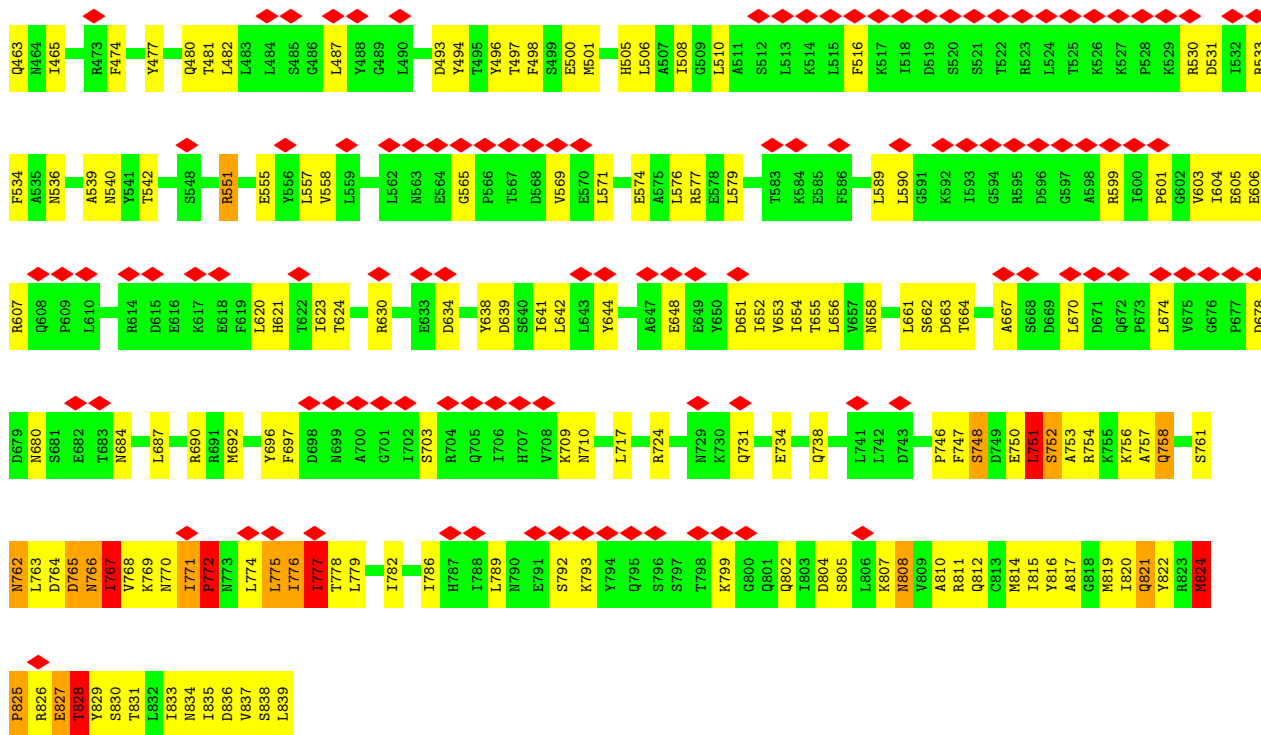
Mol	Chain	Residues	Atoms					AltConf	Trace
8	I	187	Total	C	N	O	S	0	0
			1418	862	244	311	1		
8	L	187	Total	C	N	O	S	0	0
			1366	830	240	295	1		
8	U	187	Total	C	N	O	S	0	0
			1418	862	244	311	1		
8	X	187	Total	C	N	O	S	0	0
			1366	830	240	295	1		

3 Residue-property plots

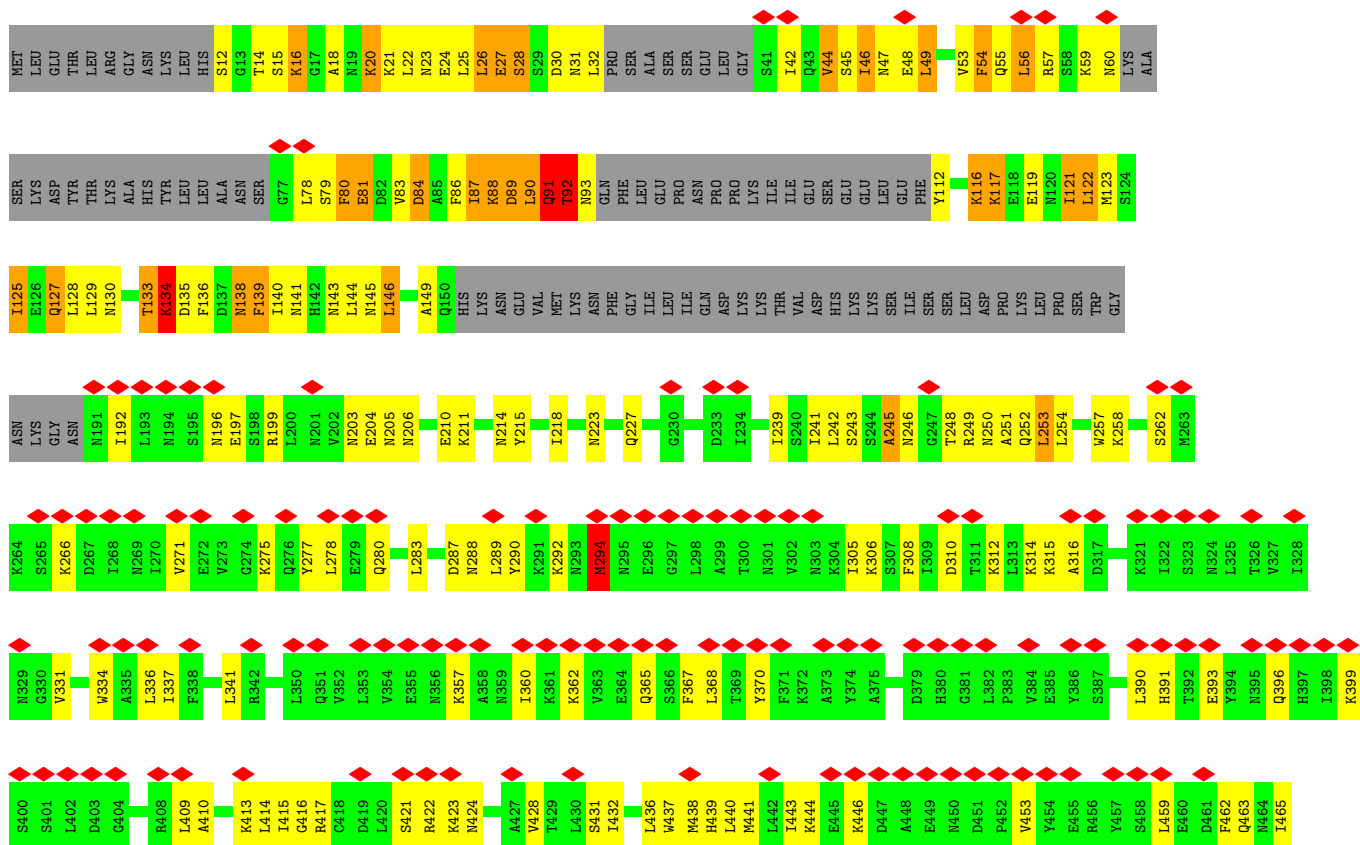
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

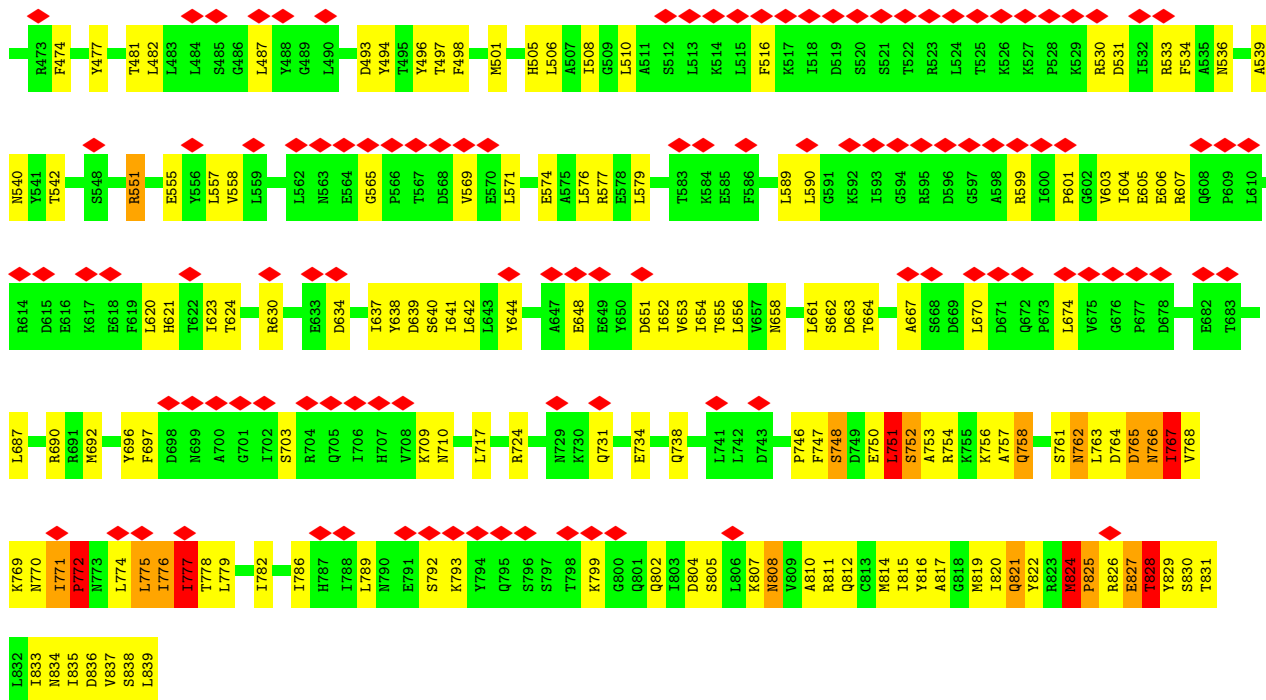
- Molecule 1: Nucleoporin NIC96



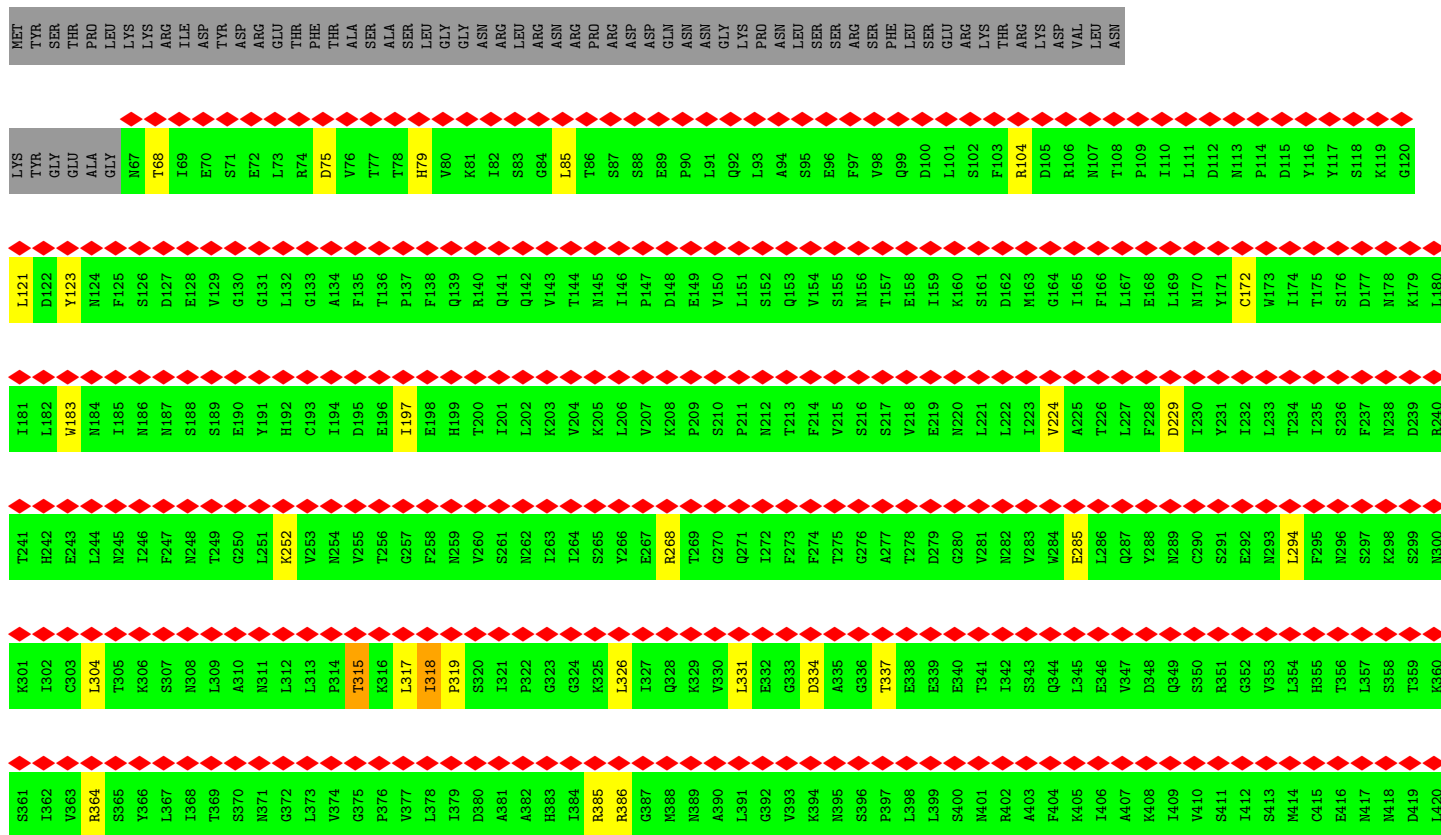
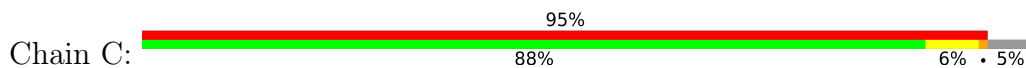


• Molecule 1: Nucleoporin NIC96



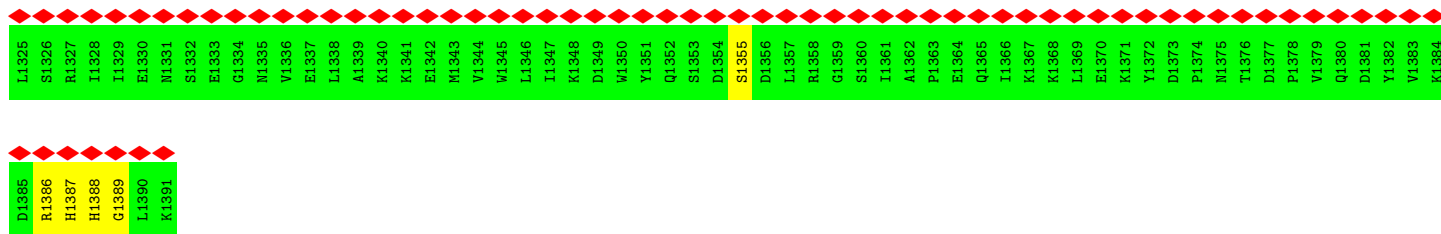


• Molecule 2: Nucleoporin NUP157

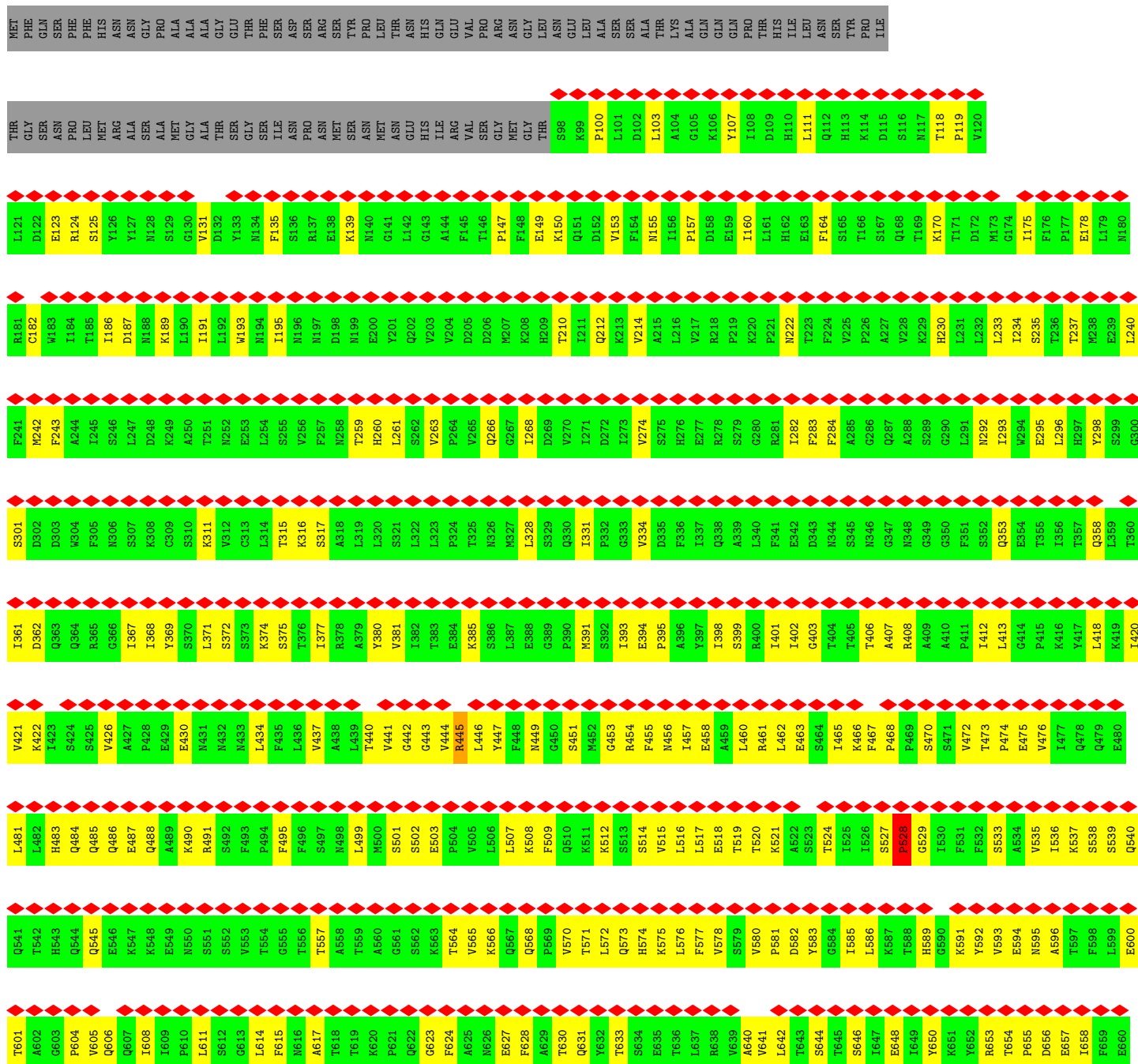


S1146	L1081	P961	I1021	R841	G781	S721	A661	V601	S541	G481	F421
F1147	P1082	K962	E1022	E842	S782	Q722	L662	A602	A542	P482	L422
D1148	Y1083	T963	Q1023	E843	M783	I723	A663	V603	P443	L483	A423
Q1149	L1084	V964	S1024	F844	A784	M724	F664	L604	D544	S484	V424
K1150	K1085	G965	P1025	F845	I785	E725	F665	T605	Y545	T485	I425
P1151	E1086	F966	S1026	D846	T786	E726	S666	S606	G546	Q486	T426
A1152	R1087	L967	I1027	L847	A787	R727	A667	M607	I547	K487	T427
L1153	A1088	L968	A1028	K848	S788	V728	G668	A608	L548	A488	T428
V1154	E1089	R969	M1029	F849	D789	F729	I669	L609	K549	S489	G429
Q1155	K1090	F970	I1030	H850	A790	V730	P670	E610	N550	S490	V430
L1156	S1091	A971	S1031	D851	E791	F731	G671	I611	Y551	T491	R431
S1157	L1092	D972	I1032	L852	S792	K732	V672	Y612	G552	Y492	L432
E1158	E1093	K973	F1033	F853	I793	R733	G673	C613	K553	I493	Y433
M1159	I1094	I974	S1034	T854	A794	A734	E674	R614	K554	I494	F434
I1160	S1095	D975	P1035	P855	M795	S735	I675	R615	V555	T495	K435
H1161	N1096	K976	A1036	R856	M796	K736	K676	T616	E556	T496	G436
E1162	L1097	G977	S1037	A857	A797	T737	P677	P617	N557	C497	S437
F1163	L1098	Q978	S1038	K858	L798	E738	K678	D618	T558	A498	I438
F1164	F1100	Q979	L1039	T859	I799	K739	S679	E619	A559	S499	S439
D1165	Y1101	A980	K1040	K860	L800	M740	S680	V620	L560	T500	R440
I1166	L1102	Q981	R1041	Q861	L801	D741	R681	F621	L561	I501	R441
S1167	F1103	E982	K1042	L862	I802	A742	E682	E622	I502	I502	I442
I1168	K1104	Y983	V1043	L863	M803	F743	S883	S623	S503	S503	I443
I1169	E1105	V984	Y1044	K864	S804	G744	G684	L624	P504	P504	G444
Q1170	E1106	S985	S1045	E865	I805	I745	S885	I625	G505	G505	S445
D1171	H1107	R986	V1046	L866	K806	S746	P687	E626	I506	I506	L446
D1172	F1108	G987	I1047	L867	D807	I747	P688	M627	Y507	Y507	K447
L1173	L1109	C988	M1048	L868	A808	T748	P688	P628	F508	F508	L448
L1174	E1110	N989	M1049	E869	L809	R749	I689	L629	T509	T509	D449
M1175	A1111	T990	S1050	V870	S810	P750	S690	P630	C510	C510	S450
L1176	A1112	A991	M1051	V871	L811	Q751	Q891	F631	V511	V511	V451
V1177	D1113	D992	M1052	N872	I812	V752	N692	I632	R512	R512	K452
R1178	V1114	P993	R1053	A873	M813	E753	L693	H633	L573	L573	F453
M1179	L1115	R994	F1054	N874	V814	V754	F694	S634	R514	R514	P454
E1180	Y1116	K995	L1115	L875	F815	Y755	D695	Y635	A515	A515	P455
T1181	Y1117	V996	H1056	A876	Y816	L756	K696	G636	N516	N516	T456
R1182	A1117	F997	Y1057	S877	E817	S757	S697	L637	S517	S517	S457
I1183	L1118	Q998	C1058	G878	D818	S758	E698	S638	G518	G518	I458
D1184	A1119	D999	F1059	T879	I819	I759	E699	E639	E519	E519	S459
E1185	S1120	K1000	Y1060	S880	D820	S760	C700	A640	L520	L520	S460
D1186	S1121	R1001	D1061	A881	A821	V761	D701	C641	S521	S521	S461
R1187	D1122	I1002	W1062	D882	F822	L762	G702	S642	K522	K522	L462
R1188	F1123	M1003	L1063	E883	K623	A763	I703	T643	G523	G523	E463
K1189	D1124	V1004	V1064	L884	S824	D764	V704	A644	I524	I524	Q464
Q1190	L1125	Y1005	C945	V885	L825	F765	L705	L645	G585	G585	N465
L1191	K1126	T1006	F946	N886	L826	F766	S706	Y646	N526	N526	K466
T1192	L1127	L1007	L947	V887	N827	M767	F707	L647	K527	K527	S467
L1193	S1128	I1008	R948	L888	T828	I768	R708	A648	E528	E528	F468
K1194	E1129	F1009	R949	K889	L829	H769	F709	C649	L529	L529	I469
L1195	D1070	I010	D1070	E990	M830	R770	Y710	K650	F590	F590	I470
M1196	Y1071	I1011	Y1071	R891	G831	F771	G711	F651	E531	E531	G471
K1197	L1072	D952	D952	F892	A832	S772	S712	N652	N632	N632	H472
R1198	L1073	K1013	L1073	G893	G833	F773	A713	K653	K533	K533	H473
V1199	R1074	S1014	R954	S894	G834	V774	L714	S654	Q594	Q594	P474
L1200	L1075	V1015	Y955	F895	V835	S775	L715	E555	E535	E535	L475
P1201	D1076	D1016	K956	C956	Y836	F776	I716	H656	A596	A596	M476
L1202	S1077	D1017	L957	H897	D837	V777	T717	I657	E597	E597	T477
S1203	Q1078	I1018	L958	S898	S838	P778	R718	K658	K538	K538	H478
D1204	F1079	T1019	Y959	A899	K639	F779	L719	S859	L599	L599	D479
L1205	V1080	S1020	Q960	D900	T840	K780	F720	S660	K600	K600	T480

I1265	L1205	T1145	L1081	I1021	P961	1901	R641	G781	S721	A661	V601	S541
S1266	F1206	S1146	P1082	E1022	K962	L902	E942	S782	Q722	L662	A602	A642
M1267	N1207	F1147	Y1083	Q1023	T963	C903	Y943	M783	I723	A663	V603	P643
T1268	D1208	D1148	L1084	S1024	V964	Y904	F944	A784	M724	F664	L604	D644
L1269	C1209	Q1149	K1085	P1025	G965	R905	F945	I785	E725	T665	T605	Y645
I1270	A1210	K1150	E1086	S1026	F966	A906	D946	T786	E726	S666	S606	G646
R1271	D1211	P1151	R1087	I1027	L967	G907	L947	A787	R727	A667	N607	I547
I1272	P1212	A1152	A1088	A1028	L968	E908	K948	S788	V728	G668	A608	L648
K1273	L1213	L1153	E1089	M1029	R969	H909	F949	D789	F729	I669	L609	K649
T1275	D1214	V1154	K1090	I1030	A970	L910	H850	A790	V730	P670	E610	N650
T1276	Y1215	Q1155	S1091	S1031	A971	E911	D851	E791	F731	G671	I611	Y651
R1277	Y1216	L1156	L1092	I1032	D972	A912	L852	S792	K732	V672	E612	G652
E1217	E1217	S1157	E1093	F1033	K973	A913	F953	I793	R733	G673	C613	K653
I1218	I1218	E1158	I1094	S1034	I974	Q914	T954	A794	A734	E674	E614	Y654
K1219	K1219	M1159	S1095	P1035	D975	K915	P955	M795	S735	I675	R615	V655
L1220	L1220	M1160	N1096	A1036	K976	F916	N856	M796	K736	K676	T616	E656
R1221	R1221	H1161	L1097	S1037	G977	E917	A857	A797	T737	P677	P617	N657
I1222	I1222	E1162	L1098	S1038	N978	M918	K858	L798	E738	K678	D618	T658
F1223	F1223	L1163	F1109	L1039	Q979	I919	T959	I799	K739	S679	E619	A659
P1284	K1224	F1164	F1100	K1040	A980	D920	K860	L800	M740	S680	V620	L660
V1285	V1225	D1165	Y1101	K1041	Q861	S821	Q861	L801	D741	R681	F621	L661
H1286	S1226	I1166	L1102	R1042	E982	K922	L862	I802	A742	E682	E622	D662
F1287	Q1227	A1167	F1103	V1043	Y983	I923	I863	N803	F743	S683	S623	T663
L1288	F1228	S1168	K1104	Y1044	V984	S924	K864	S804	G744	G684	L624	T664
M1289	K1229	Q1169	E1105	S1045	S985	R925	E865	I805	I745	S685	I625	D665
N1290	D1230	I1170	E1106	S1046	R986	N926	I866	K806	S746	P686	E626	E666
K1291	E1231	D1171	H1107	I1047	G987	H927	L867	D807	I747	P687	N627	I667
I1292	K1232	D1172	F1108	M1048	C988	L928	I868	A808	T748	P688	P628	K668
L1293	V1233	L1173	L1109	S1049	N989	D929	E869	L809	R749	I689	L629	E669
I1294	I1234	L1174	E1110	M1050	T990	T930	V870	S810	P750	S690	P630	I670
S1295	Q1235	M1175	A1111	M1051	A991	A931	V871	L811	Q751	Q691	F631	V671
F1296	G1236	L1176	A1112	N1052	D992	I932	N872	I812	V752	N692	I632	P672
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K1299	N1239	M1179	L1115	F1055	K995	Y935	I875	F815	Y755	D695	Y635	R675
S1300	R1240	E1180	Y1116	V996	V996	E936	A876	Y816	L756	K696	G636	R676
S1301	L1241	T1181	A1117	Y1057	F997	R937	S877	E817	S757	S697	L637	F577
A1302	L1242	R1182	L1118	C1058	G998	C938	S878	D818	S758	G698	S638	N578
A1303	D1243	I1183	A1119	F1059	D999	C939	T879	I819	I759	E699	E639	Y579
D1304	S1244	D1184	S1120	Y1060	K1000	E940	S880	D820	S760	C700	A640	T680
S1305	M1245	E1185	S1121	D1061	A881	N941	A881	A821	V761	D701	C641	S681
S1306	K1246	D1186	D1122	W1062	I1002	I942	E882	F922	L762	G702	S642	T682
V1307	N1247	Y1187	F1123	L1063	M1003	E943	Y883	K823	A763	I703	T643	P683
C1308	A1248	R1188	D1124	V1064	V1004	L944	I884	S824	D764	V704	A644	Q684
S1309	P1249	K1189	L1125	A1065	Y1005	C945	V885	L825	F765	L705	L645	G685
M1310	S1250	Q1190	K1126	M1066	T1006	E946	N886	L826	F766	S706	L646	G686
F1311	P1251	L1191	L1127	L1067	L1007	L947	V887	N827	M767	P707	L647	A687
L1312	D1252	T1192	R1068	K1067	I1008	R948	L888	T828	I768	R708	A648	N688
L1313	V1253	E1129	E1129	Q1069	F1069	R949	K889	L829	H769	F709	C649	F689
A1314	G1254	L1193	R1130	D1070	E1010	V950	N889	M830	R770	Y710	K650	F690
G1315	S1255	L1195	I1131	Y1071	I1011	V951	R891	G831	P771	G711	F651	A691
V1316	V1256	M1196	L1072	L1072	V1012	D952	F922	A832	S772	S712	N652	S692
H1317	G1257	G1197	L1073	L1073	K1013	I953	G893	G833	F773	A713	K653	Q693
S1318	Q1258	R1198	R1074	R1074	S1014	N954	S994	S834	V774	L714	K654	Y694
L1319	E1259	V1199	L1075	L1075	V1015	V955	F895	V835	S775	L715	E655	S695
K1320	S1260	L1200	D1076	D1076	D1016	K956	C996	Y836	F776	I716	H656	A696
L1321	F1261	P1201	D1078	S1077	H997	L957	H897	D837	V777	T717	I657	E697
Y1322	L1262	L1202	Q1078	Q1077	D1017	L957	N898	S838	P778	R718	H658	P698
Y1323	S1263	S1203	T1019	F1079	T1019	Y959	A899	K839	F779	L719	S659	L699
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• Molecule 3: Nucleoporin NUP170



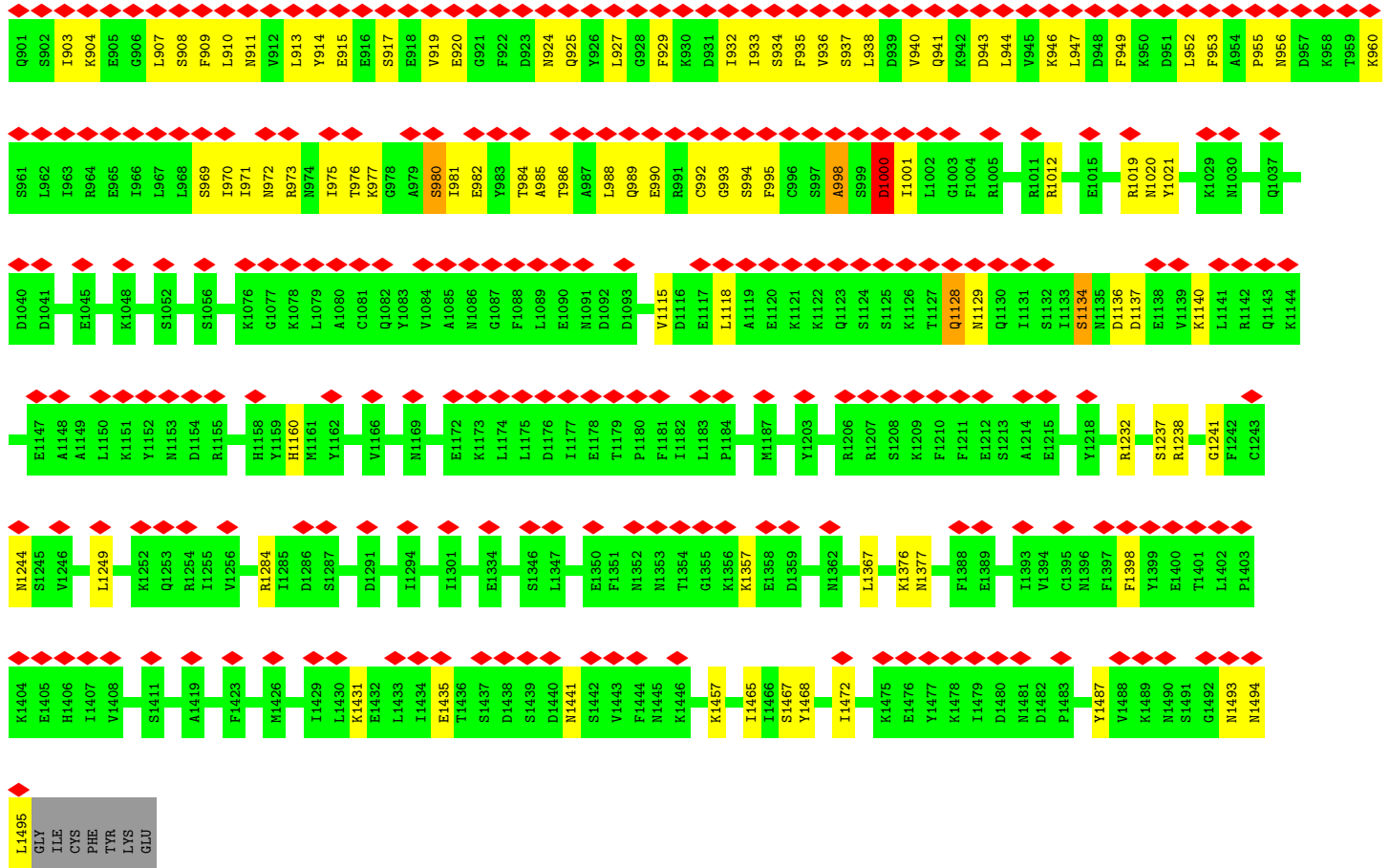
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• Molecule 3: Nucleoporin NUP170

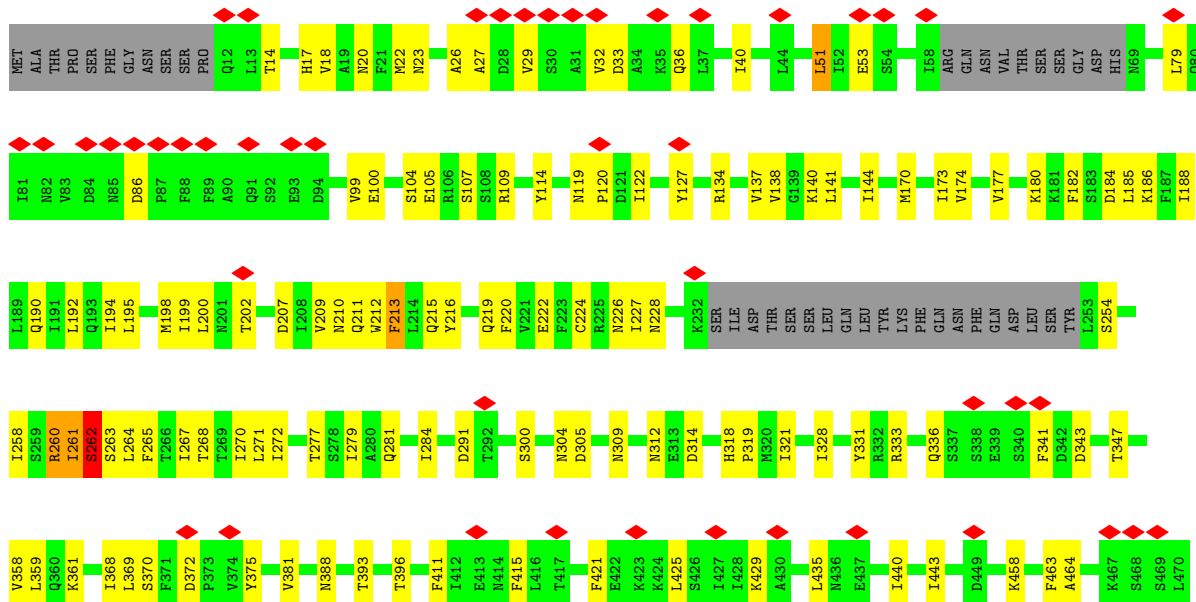


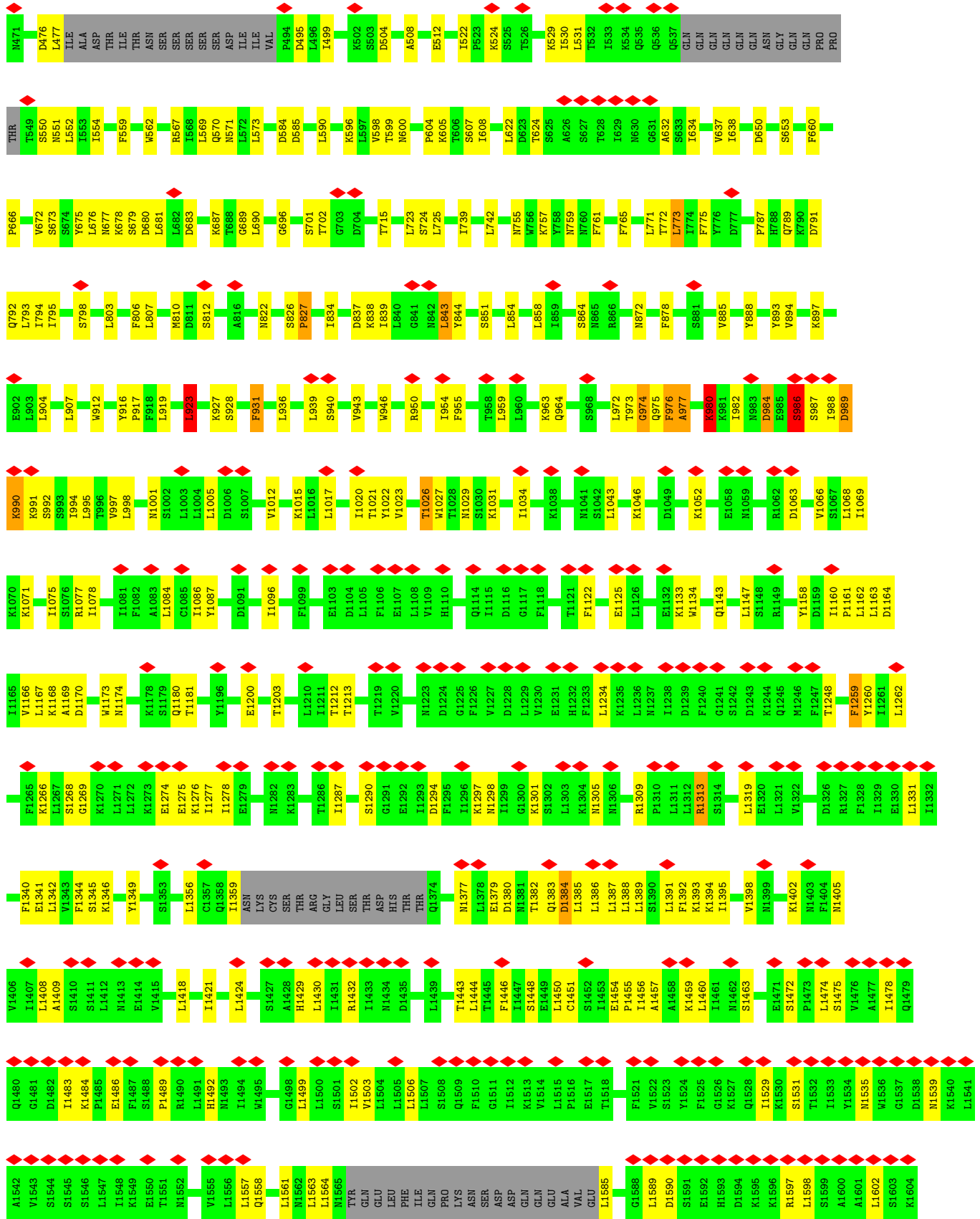
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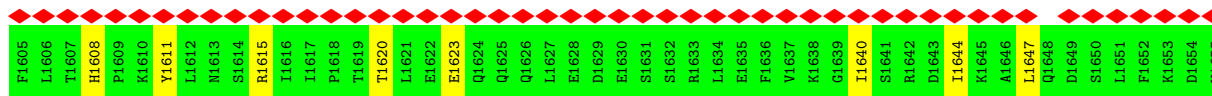
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L121	D122	E123	R124	S125	Y126	Y127	N128	S129	G130	V131	D132	Y133	N134	F135	S136	R137	E138	K139	N140	G141	L142	G143	A144	F145	T146	F147	F148	E149	K150	Q151	D152	V153	F154	N155	I156	P157	D158	E159	I160	L161	H162	E163	F164	S165	T166	K114	A167	Q168	N169	K170	T171	D172	M173	G174	I175	F176	P177	E178	L179	N180
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T601	A602	G603	P604	V605	R606	A607	I608	L609	P610	L611	S612	G613	L614	F615	N616	A617	T618	T619	K620	P621	G622	G623	F624	A625	N626	E627	F628	A629	T630	Q631	Y632	T633	S634	E635	T636	L637	R638	V639	A640	V641	L642	T643	S644	T645	S646	L647	T648	L649	Y650	K651	Y652	R653	T654	P655	D656	E657	L658	F659	E660	
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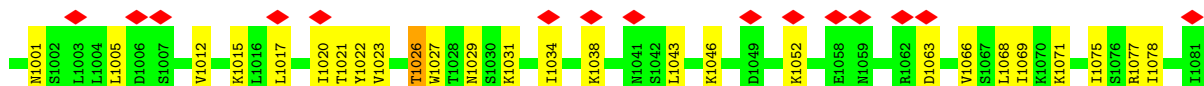
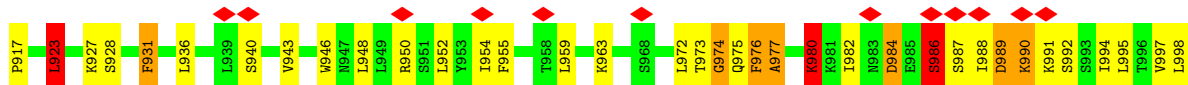
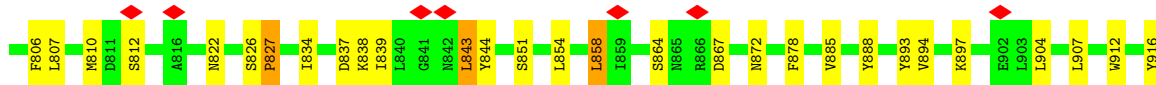
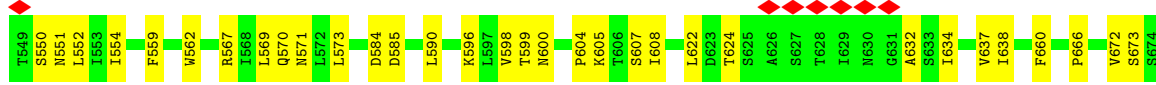
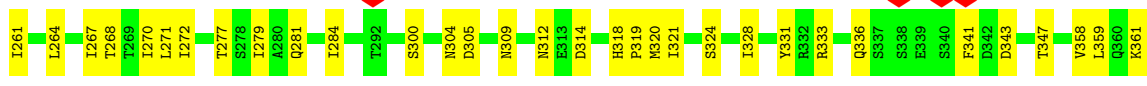
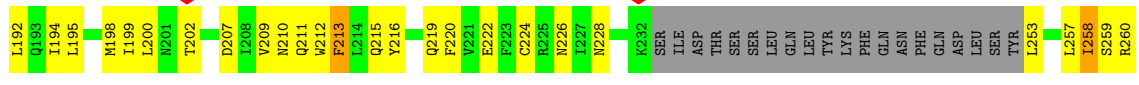
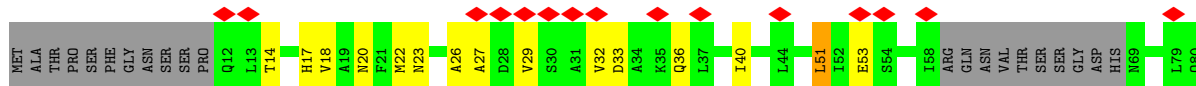
• Molecule 4: Nucleoporin NUP188

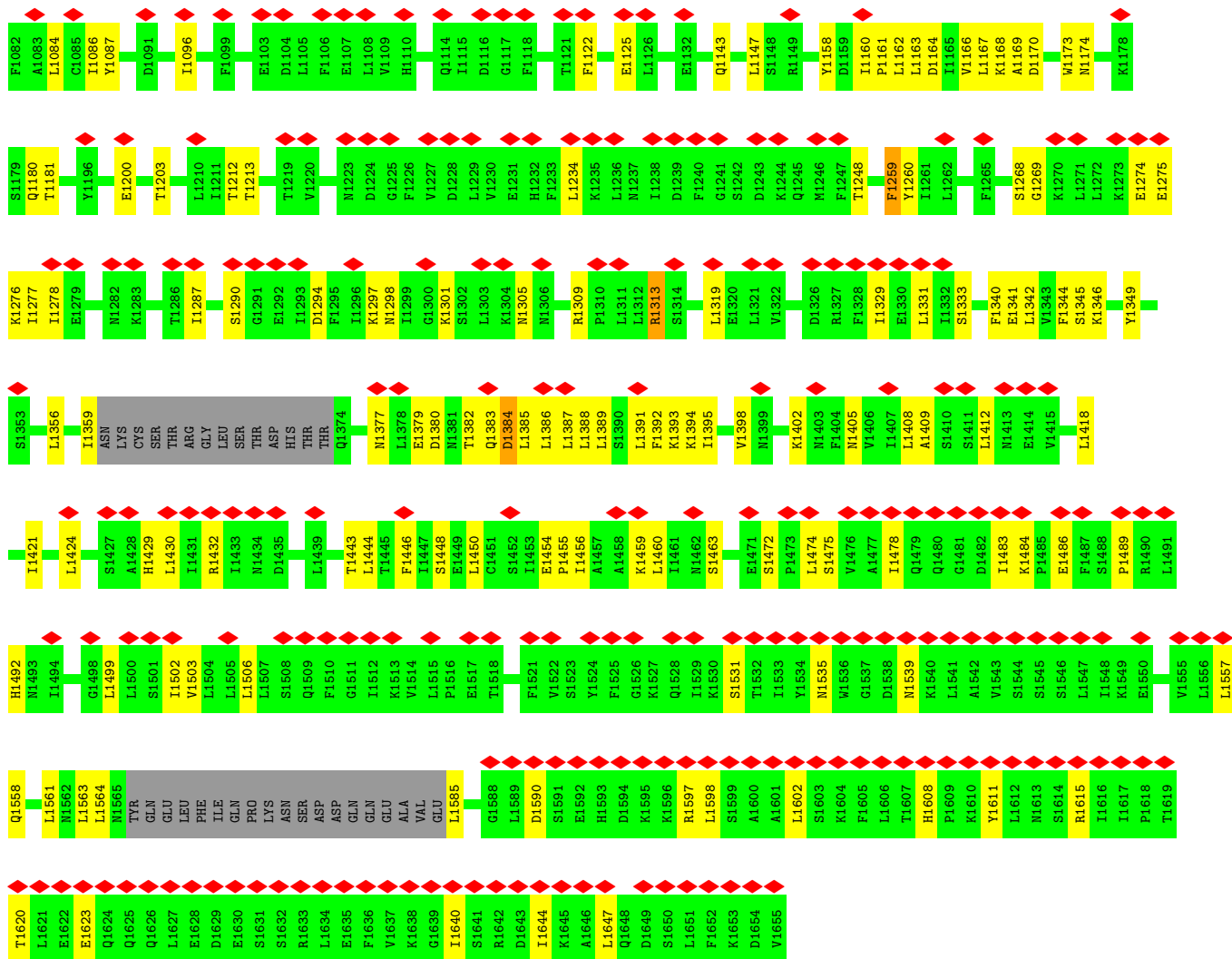




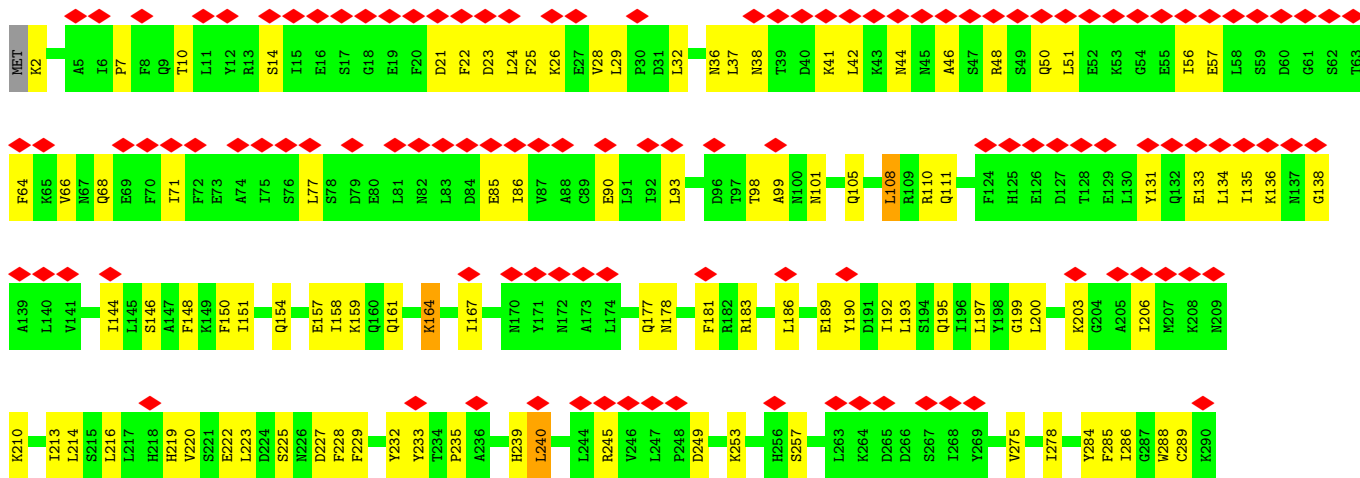


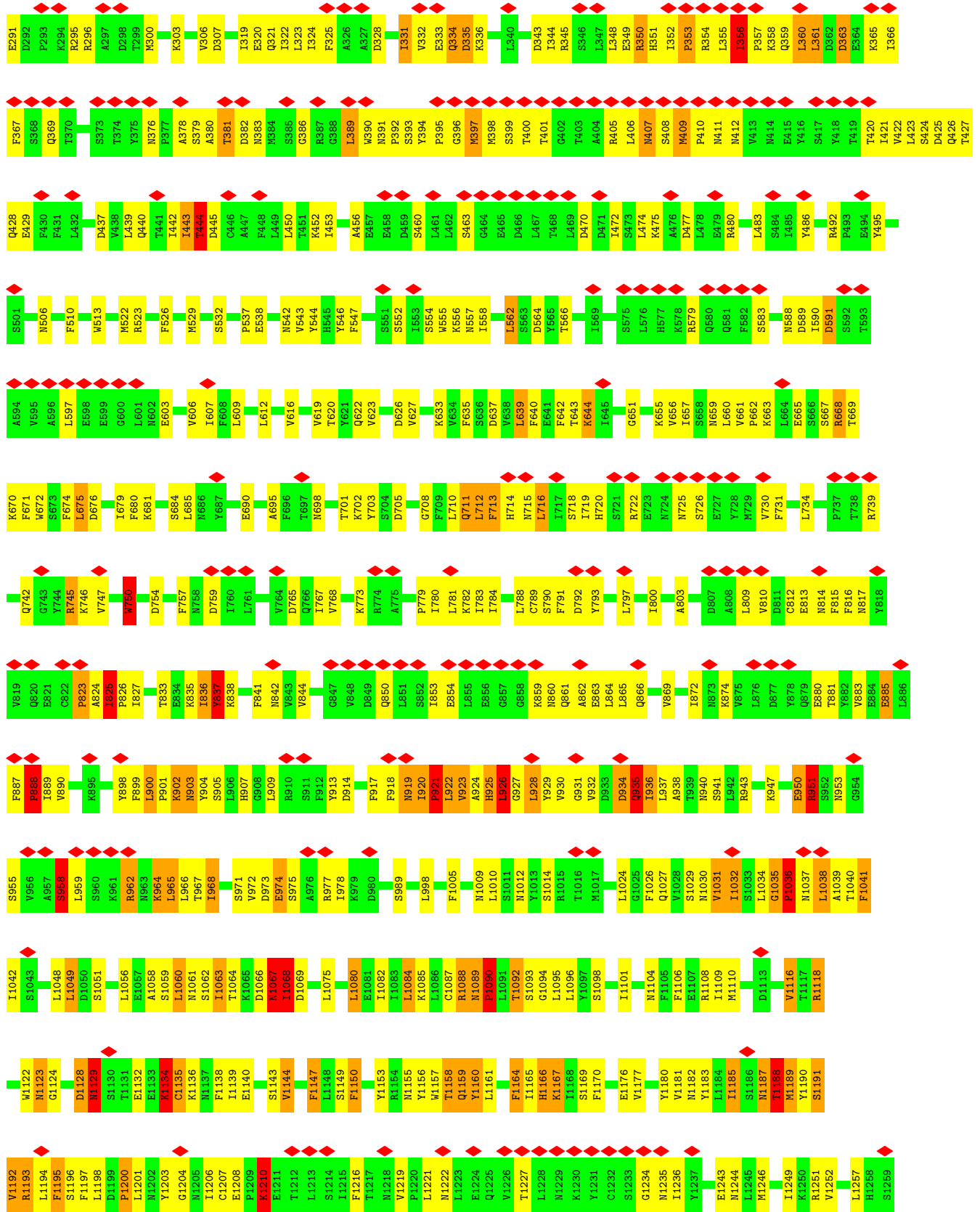
● Molecule 4: Nucleoporin NUP188

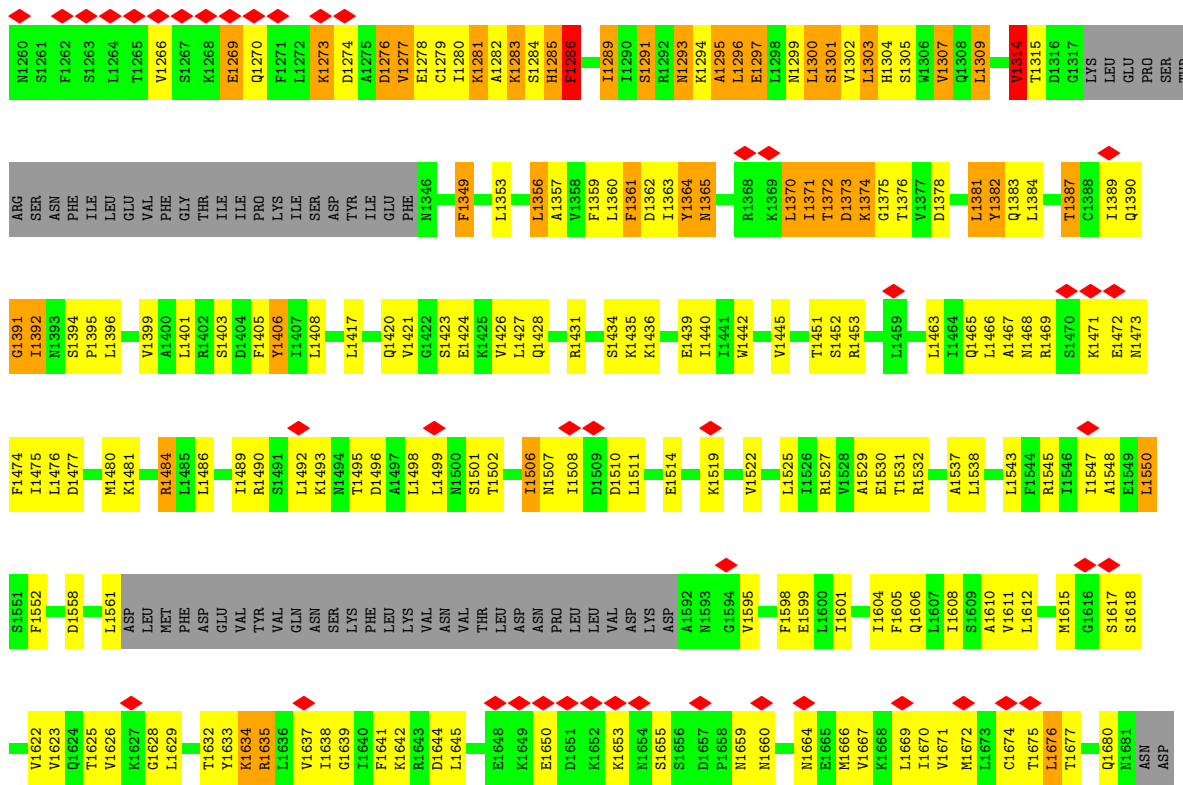




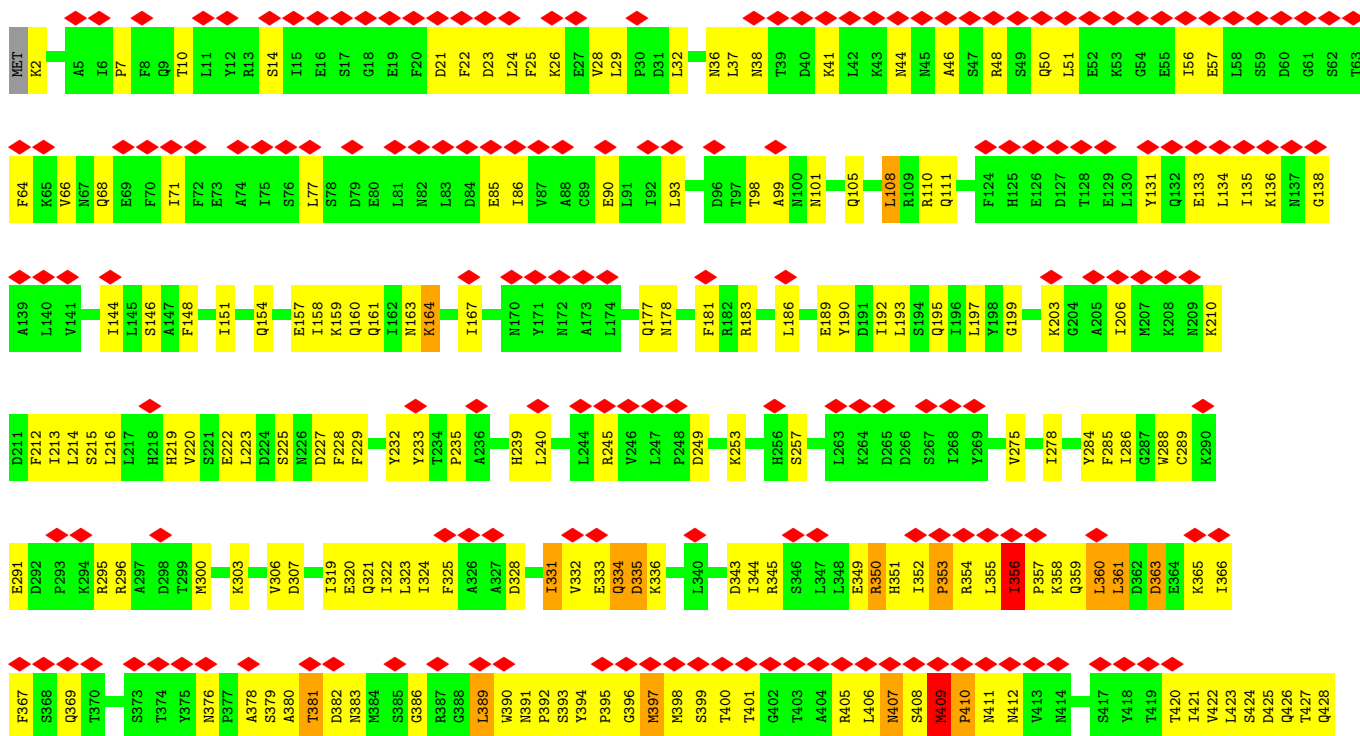
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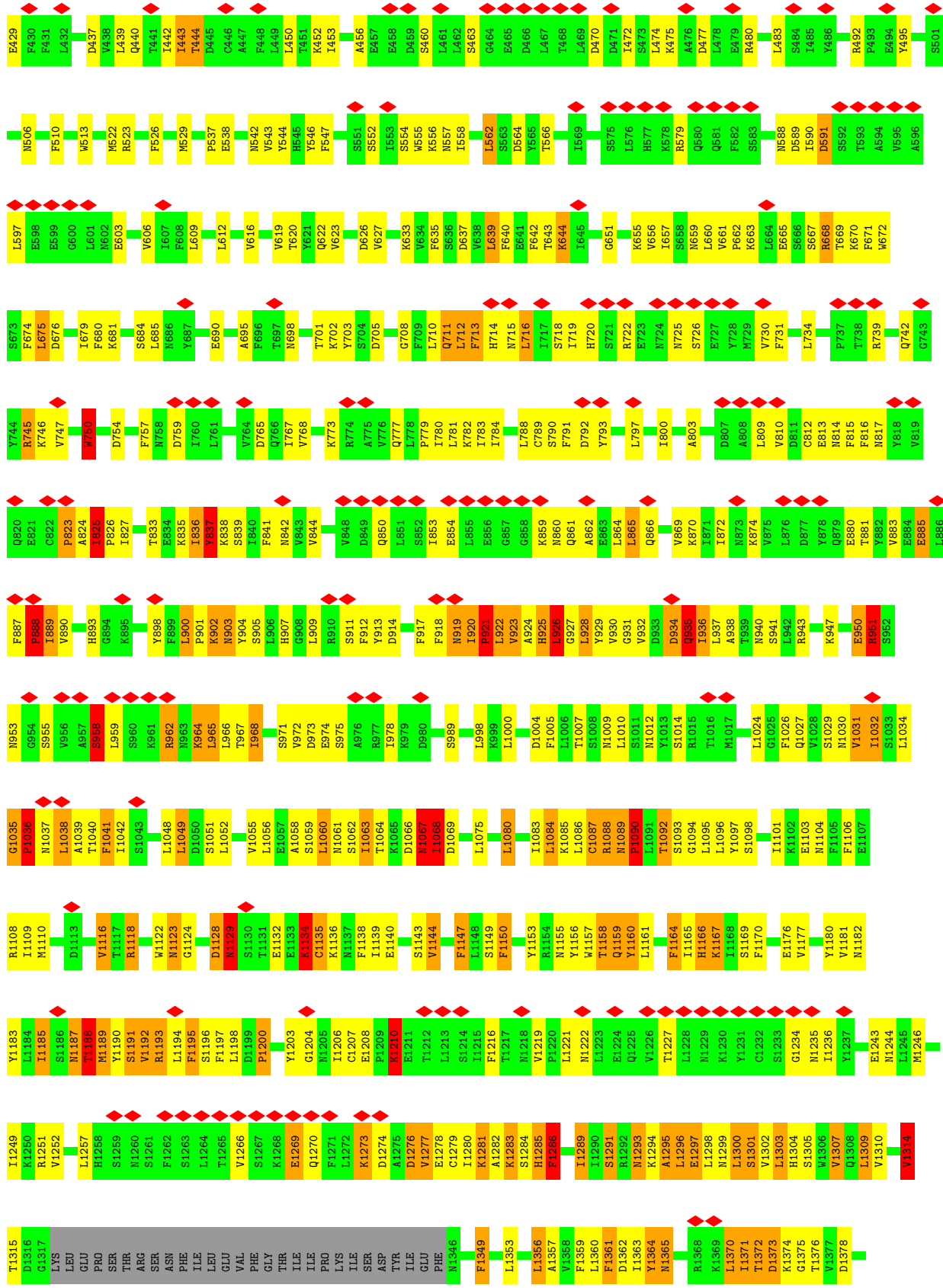


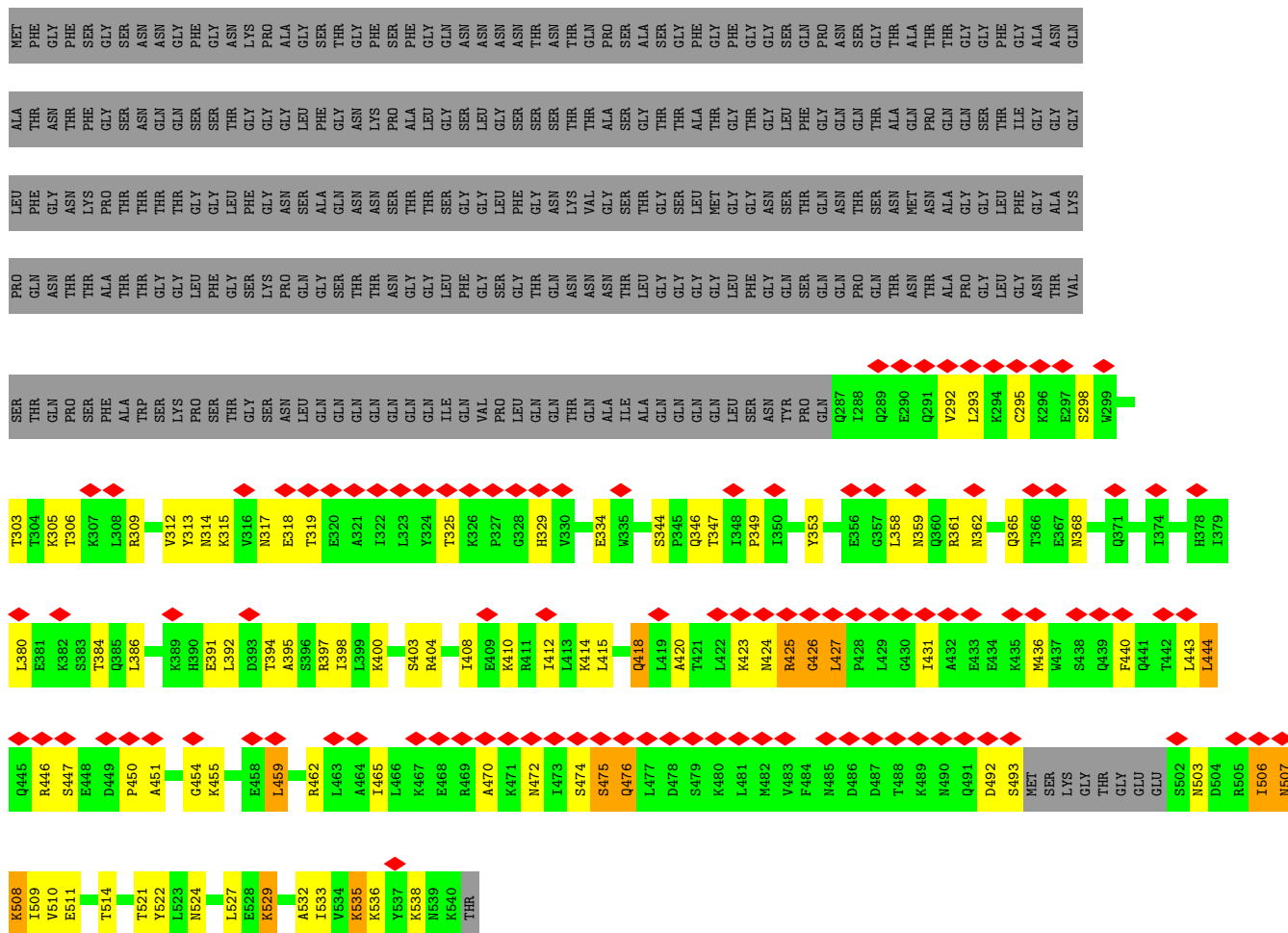




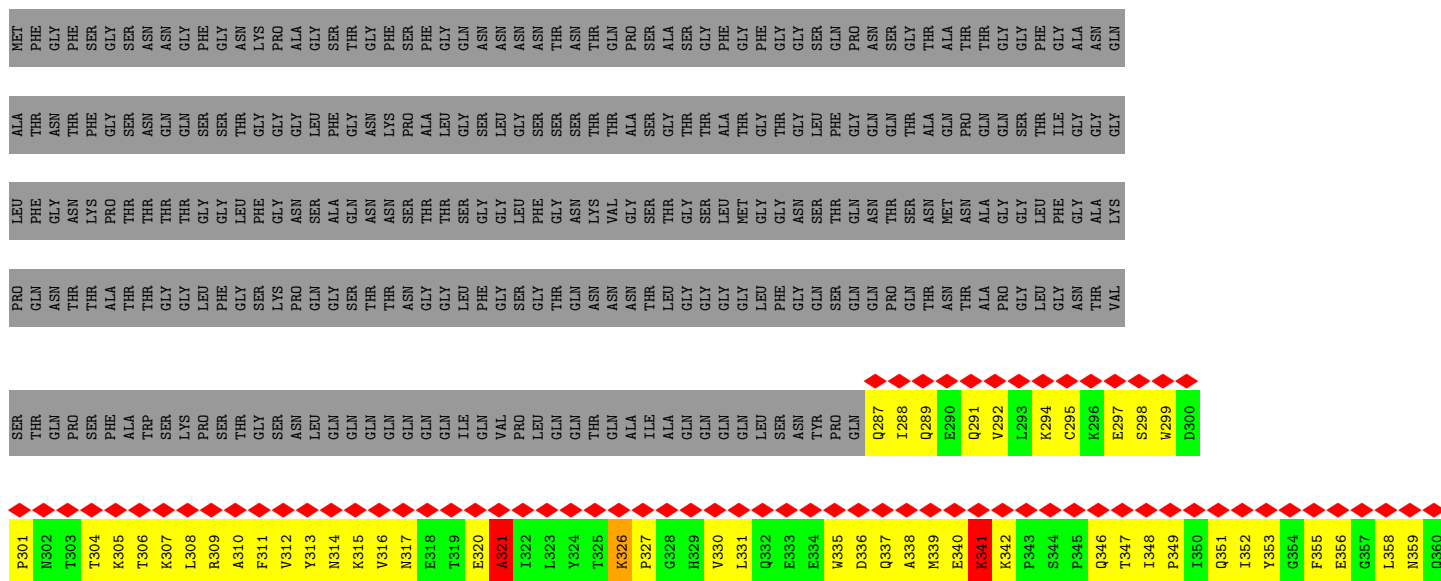
• Molecule 5: Nucleoporin NUP192







• Molecule 7: Nucleoporin NUP57



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	633134	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	2.483	Depositor
Minimum map value	-1.449	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.048	Depositor
Recommended contour level	0.18	Depositor
Map size (\AA)	467.59998, 467.59998, 467.59998	wwPDB
Map dimensions	350, 350, 350	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.336, 1.336, 1.336	Depositor

5 Model quality i

5.1 Standard geometry i

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	0.37	0/5810	0.59	6/7863 (0.1%)
1	M	0.36	0/5787	0.58	5/7832 (0.1%)
1	N	0.46	0/5852	0.82	9/7931 (0.1%)
1	Z	0.46	0/5853	0.84	11/7931 (0.1%)
2	C	0.66	0/10658	0.90	22/14443 (0.2%)
2	O	0.66	0/10658	0.90	23/14443 (0.2%)
3	D	0.46	0/11182	0.63	5/15160 (0.0%)
3	P	0.46	0/11171	0.63	5/15145 (0.0%)
4	E	0.43	0/12583	0.68	9/17054 (0.1%)
4	Q	0.43	0/12583	0.68	8/17054 (0.0%)
5	F	0.63	5/12443 (0.0%)	1.18	91/16898 (0.5%)
5	R	0.63	5/12443 (0.0%)	1.18	90/16898 (0.5%)
6	G	0.35	0/1553	0.62	0/2104
6	J	0.50	0/1509	1.00	11/2042 (0.5%)
6	S	0.35	0/1549	0.62	0/2100
6	V	0.50	0/1509	1.02	11/2042 (0.5%)
7	H	0.61	2/1832 (0.1%)	0.88	10/2482 (0.4%)
7	K	0.56	1/1829 (0.1%)	0.96	12/2485 (0.5%)
7	T	0.61	2/1832 (0.1%)	0.88	11/2482 (0.4%)
7	W	0.61	1/1826 (0.1%)	1.03	15/2481 (0.6%)
8	I	0.59	0/1431	0.93	4/1940 (0.2%)
8	L	0.40	0/1378	0.74	1/1873 (0.1%)
8	U	0.59	0/1431	0.93	4/1940 (0.2%)
8	X	0.40	0/1378	0.74	1/1873 (0.1%)
All	All	0.53	16/136080 (0.0%)	0.85	364/184496 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	N	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	Z	0	1
5	F	0	4
5	R	0	4
6	G	0	1
6	S	0	1
7	H	0	1
7	K	0	2
7	T	0	1
7	W	0	2
All	All	0	19

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	750	TRP	C-N	10.13	1.53	1.34
5	R	750	TRP	C-N	10.13	1.53	1.34
7	H	427	LEU	C-N	10.05	1.53	1.34
7	T	427	LEU	C-N	10.01	1.53	1.34
7	T	425	ARG	C-N	9.00	1.49	1.33
7	H	425	ARG	C-N	8.93	1.49	1.33
7	W	326	LYS	C-N	8.60	1.50	1.34
7	K	326	LYS	C-N	8.58	1.50	1.34
5	F	1235	ASN	C-N	8.51	1.53	1.34
5	F	1394	SER	C-N	8.48	1.50	1.34
5	R	1235	ASN	C-N	8.47	1.53	1.34
5	R	1394	SER	C-N	8.42	1.50	1.34
5	F	409	MET	C-N	8.26	1.50	1.34
5	R	409	MET	C-N	8.24	1.50	1.34
5	F	356	ILE	C-N	7.38	1.48	1.34
5	R	356	ILE	C-N	7.37	1.48	1.34

All (364) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1090	PRO	CA-N-CD	-37.79	58.60	111.50
5	R	1090	PRO	CA-N-CD	-37.74	58.66	111.50
7	T	425	ARG	C-N-CA	-13.43	94.11	122.30
7	H	425	ARG	C-N-CA	-13.39	94.18	122.30
6	V	388	CYS	CB-CA-C	-12.61	85.19	110.40
5	R	1036	PRO	N-CA-CB	10.88	116.36	103.30
5	F	1036	PRO	N-CA-CB	10.79	116.25	103.30
5	F	1089	ASN	C-N-CD	10.16	149.74	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	1089	ASN	C-N-CD	10.09	149.60	128.40
8	I	800	HIS	CB-CA-C	10.07	130.53	110.40
1	N	772	PRO	CA-N-CD	-10.03	97.45	111.50
8	U	800	HIS	CB-CA-C	10.02	130.44	110.40
1	Z	772	PRO	CA-N-CD	-10.01	97.48	111.50
5	R	1067	ASN	CB-CA-C	-9.88	90.64	110.40
5	F	1067	ASN	CB-CA-C	-9.88	90.65	110.40
2	C	104	ARG	NE-CZ-NH1	9.72	125.16	120.30
2	O	104	ARG	NE-CZ-NH1	9.69	125.14	120.30
5	F	837	TYR	CB-CA-C	9.41	129.22	110.40
5	R	837	TYR	CB-CA-C	9.38	129.16	110.40
5	R	1235	ASN	CA-C-N	9.20	137.44	117.20
5	F	1235	ASN	CA-C-N	9.20	137.43	117.20
5	F	823	PRO	N-CA-C	9.07	135.67	112.10
5	R	823	PRO	N-CA-C	9.06	135.67	112.10
5	R	1089	ASN	CB-CA-C	8.81	128.03	110.40
1	Z	91	GLN	CB-CA-C	-8.78	92.84	110.40
5	F	1089	ASN	CB-CA-C	8.77	127.95	110.40
5	R	711	GLN	CB-CA-C	8.76	127.93	110.40
5	F	711	GLN	CB-CA-C	8.73	127.87	110.40
1	N	91	GLN	CB-CA-C	-8.71	92.98	110.40
1	Z	27	GLU	CB-CA-C	-8.71	92.99	110.40
5	R	1235	ASN	CA-C-O	-8.69	101.86	120.10
5	F	1235	ASN	CA-C-O	-8.67	101.90	120.10
1	Z	30	ASP	CB-CA-C	8.48	127.36	110.40
2	C	268	ARG	NE-CZ-NH1	8.42	124.51	120.30
4	E	51	LEU	CA-CB-CG	8.41	134.64	115.30
4	Q	51	LEU	CA-CB-CG	8.38	134.57	115.30
2	O	268	ARG	NE-CZ-NH1	8.27	124.44	120.30
7	H	476	GLN	CB-CA-C	8.26	126.92	110.40
7	T	476	GLN	CB-CA-C	8.26	126.91	110.40
7	K	450	PRO	N-CA-C	8.25	133.55	112.10
7	W	450	PRO	N-CA-C	8.21	133.44	112.10
5	F	921	PRO	CA-N-CD	-8.17	100.06	111.50
7	W	504	ASP	O-C-N	8.17	135.77	122.70
5	F	1068	ILE	N-CA-C	-8.16	88.96	111.00
5	R	1068	ILE	N-CA-C	-8.16	88.97	111.00
5	R	1056	LEU	CA-CB-CG	8.11	133.95	115.30
5	R	921	PRO	CA-N-CD	-8.09	100.18	111.50
5	F	1056	LEU	CA-CB-CG	8.07	133.86	115.30
6	V	406	PHE	C-N-CA	-8.04	105.41	122.30
6	J	406	PHE	C-N-CA	-8.03	105.43	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	1506	ILE	CG1-CB-CG2	-7.95	93.92	111.40
5	F	1506	ILE	CG1-CB-CG2	-7.93	93.94	111.40
6	J	335	SER	O-C-N	7.90	135.34	122.70
6	V	335	SER	O-C-N	7.79	135.16	122.70
2	O	512	ARG	NE-CZ-NH1	7.77	124.19	120.30
5	R	1090	PRO	N-CA-CB	7.76	112.61	103.30
2	C	512	ARG	NE-CZ-NH1	7.67	124.13	120.30
4	E	262	SER	C-N-CA	7.65	140.83	121.70
5	F	1090	PRO	N-CA-CB	7.62	112.45	103.30
5	R	750	TRP	CA-C-N	7.56	138.27	117.10
5	F	750	TRP	CA-C-N	7.56	138.26	117.10
2	O	1221	ARG	NE-CZ-NH2	7.55	124.07	120.30
2	C	1221	ARG	NE-CZ-NH2	7.54	124.07	120.30
2	C	1130	ARG	NE-CZ-NH1	7.51	124.05	120.30
2	O	1130	ARG	NE-CZ-NH1	7.49	124.04	120.30
5	R	668	ARG	NE-CZ-NH1	7.43	124.02	120.30
2	C	1277	ARG	NE-CZ-NH1	7.41	124.01	120.30
5	F	644	LYS	C-N-CA	7.38	140.15	121.70
5	F	668	ARG	NE-CZ-NH1	7.37	123.99	120.30
5	R	644	LYS	C-N-CA	7.35	140.08	121.70
4	E	759	ASN	CB-CA-C	7.31	125.03	110.40
8	I	736	ASN	CB-CA-C	7.31	125.02	110.40
8	U	736	ASN	CB-CA-C	7.31	125.02	110.40
5	F	935	GLN	N-CA-CB	7.30	123.75	110.60
4	Q	759	ASN	CB-CA-C	7.30	125.00	110.40
7	W	504	ASP	C-N-CA	7.27	139.88	121.70
2	O	1277	ARG	NE-CZ-NH1	7.27	123.93	120.30
5	R	935	GLN	N-CA-CB	7.25	123.66	110.60
5	F	966	LEU	CA-CB-CG	7.20	131.87	115.30
5	R	966	LEU	CA-CB-CG	7.20	131.85	115.30
5	R	1391	GLY	C-N-CA	7.17	139.62	121.70
5	F	1286	PHE	CB-CA-C	7.17	124.74	110.40
5	F	1391	GLY	C-N-CA	7.17	139.62	121.70
5	R	668	ARG	NE-CZ-NH2	-7.17	116.72	120.30
5	R	1286	PHE	CB-CA-C	7.16	124.72	110.40
5	R	1090	PRO	C-N-CA	-7.14	103.85	121.70
5	F	921	PRO	N-CA-CB	-7.12	94.76	103.30
5	F	1090	PRO	C-N-CA	-7.12	103.90	121.70
5	F	668	ARG	NE-CZ-NH2	-7.10	116.75	120.30
5	R	921	PRO	N-CA-CB	-7.09	94.79	103.30
2	C	770	ARG	NE-CZ-NH1	7.09	123.84	120.30
2	O	770	ARG	NE-CZ-NH1	7.07	123.83	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1090	PRO	CA-CB-CG	-7.06	90.59	104.00
5	R	1164	PHE	CB-CA-C	-7.05	96.30	110.40
1	A	23	ASN	CB-CA-C	7.04	124.47	110.40
3	D	1232	ARG	NE-CZ-NH1	7.03	123.82	120.30
5	F	1164	PHE	CB-CA-C	-7.03	96.35	110.40
5	R	1090	PRO	CA-CB-CG	-7.02	90.66	104.00
5	F	888	PRO	N-CA-C	6.91	130.06	112.10
5	R	888	PRO	N-CA-C	6.87	129.97	112.10
5	F	797	LEU	CA-CB-CG	6.87	131.09	115.30
5	R	1234	GLY	O-C-N	6.86	133.67	122.70
5	R	797	LEU	CA-CB-CG	6.85	131.06	115.30
5	F	1234	GLY	O-C-N	6.84	133.65	122.70
3	P	1232	ARG	NE-CZ-NH1	6.81	123.71	120.30
1	Z	750	GLU	C-N-CA	6.79	138.68	121.70
1	N	750	GLU	C-N-CA	6.78	138.66	121.70
5	F	716	LEU	CA-CB-CG	6.67	130.64	115.30
5	R	716	LEU	CA-CB-CG	6.64	130.57	115.30
4	E	858	LEU	CA-CB-CG	-6.56	100.21	115.30
5	R	1378	ASP	CB-CA-C	6.53	123.47	110.40
2	O	364	ARG	NE-CZ-NH1	6.51	123.56	120.30
4	Q	858	LEU	CA-CB-CG	-6.51	100.33	115.30
5	F	1378	ASP	CB-CA-C	6.50	123.41	110.40
2	C	364	ARG	NE-CZ-NH1	6.48	123.54	120.30
2	O	693	LEU	C-N-CA	6.47	137.89	121.70
3	P	1012	ARG	NE-CZ-NH1	6.47	123.54	120.30
7	H	476	GLN	N-CA-CB	-6.45	98.98	110.60
5	R	1049	LEU	CA-CB-CG	6.45	130.14	115.30
7	T	476	GLN	N-CA-CB	-6.45	99.00	110.60
2	C	693	LEU	C-N-CA	6.42	137.76	121.70
5	F	1049	LEU	CA-CB-CG	6.42	130.06	115.30
7	K	341	LYS	N-CA-C	-6.40	93.71	111.00
4	Q	213	PHE	CB-CA-C	6.39	123.18	110.40
7	W	341	LYS	N-CA-C	-6.39	93.75	111.00
4	E	213	PHE	CB-CA-C	6.38	123.15	110.40
1	N	506	LEU	CA-CB-CG	6.34	129.89	115.30
1	Z	506	LEU	CA-CB-CG	6.32	129.83	115.30
3	D	1012	ARG	NE-CZ-NH1	6.30	123.45	120.30
6	J	335	SER	CA-C-N	-6.29	103.37	117.20
5	F	968	ILE	CG1-CB-CG2	-6.28	97.59	111.40
5	R	968	ILE	CG1-CB-CG2	-6.27	97.60	111.40
5	F	1222	ASN	C-N-CA	6.26	137.35	121.70
5	F	1378	ASP	C-N-CA	6.26	135.45	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	V	335	SER	CA-C-N	-6.26	103.43	117.20
5	R	1378	ASP	C-N-CA	6.25	135.42	122.30
5	F	1408	LEU	CB-CG-CD2	6.24	121.60	111.00
5	R	1061	ASN	CB-CA-C	6.24	122.88	110.40
2	C	727	ARG	NE-CZ-NH2	-6.23	117.19	120.30
5	F	1061	ASN	CB-CA-C	6.22	122.84	110.40
5	R	1222	ASN	C-N-CA	6.21	137.23	121.70
5	R	1408	LEU	CB-CG-CD2	6.20	121.53	111.00
7	W	423	LYS	C-N-CA	6.19	137.17	121.70
7	K	423	LYS	C-N-CA	6.17	137.12	121.70
5	F	1406	TYR	CA-CB-CG	6.16	125.11	113.40
6	V	335	SER	C-N-CA	6.15	137.08	121.70
2	O	718	ARG	NE-CZ-NH1	6.15	123.37	120.30
6	V	406	PHE	CA-C-O	-6.15	107.19	120.10
5	F	935	GLN	CA-C-O	-6.14	107.20	120.10
5	R	1406	TYR	CA-CB-CG	6.14	125.06	113.40
5	F	1080	LEU	CA-CB-CG	6.13	129.41	115.30
6	J	335	SER	C-N-CA	6.13	137.03	121.70
6	J	406	PHE	CA-C-O	-6.13	107.23	120.10
4	E	435	LEU	CA-CB-CG	6.13	129.39	115.30
5	R	935	GLN	CA-C-O	-6.13	107.23	120.10
5	R	1080	LEU	CA-CB-CG	6.12	129.38	115.30
2	C	718	ARG	NE-CZ-NH1	6.11	123.36	120.30
4	Q	435	LEU	CA-CB-CG	6.11	129.35	115.30
5	F	833	THR	CA-C-N	-6.10	103.78	117.20
2	O	727	ARG	NE-CZ-NH2	-6.09	117.25	120.30
2	C	431	ARG	NE-CZ-NH1	6.09	123.34	120.30
7	T	459	LEU	CA-CB-CG	6.09	129.30	115.30
8	I	731	GLY	C-N-CA	6.08	136.90	121.70
5	R	639	LEU	CB-CA-C	6.08	121.75	110.20
8	U	731	GLY	C-N-CA	6.08	136.89	121.70
7	H	459	LEU	CA-CB-CG	6.07	129.26	115.30
2	O	1182	ARG	NE-CZ-NH1	6.06	123.33	120.30
5	R	925	HIS	C-N-CA	6.06	136.85	121.70
5	R	833	THR	CA-C-N	-6.04	103.91	117.20
5	F	344	ILE	C-N-CA	6.04	136.79	121.70
5	F	639	LEU	CB-CA-C	6.02	121.64	110.20
8	X	779	THR	C-N-CA	6.02	136.75	121.70
8	L	779	THR	C-N-CA	6.02	136.74	121.70
1	M	55	GLN	CB-CA-C	6.02	122.43	110.40
5	R	344	ILE	C-N-CA	6.02	136.74	121.70
5	F	793	TYR	CA-CB-CG	6.01	124.82	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	925	HIS	C-N-CA	6.00	136.71	121.70
1	A	55	GLN	CB-CA-C	6.00	122.41	110.40
5	R	1010	LEU	CB-CG-CD2	-6.00	100.81	111.00
7	H	475	SER	O-C-N	6.00	132.29	122.70
7	K	424	ASN	CB-CA-C	5.97	122.35	110.40
5	F	1134	LYS	N-CA-CB	5.97	121.34	110.60
5	R	1134	LYS	N-CA-CB	5.97	121.35	110.60
7	T	475	SER	O-C-N	5.96	132.24	122.70
7	W	424	ASN	CB-CA-C	5.96	122.32	110.40
5	R	793	TYR	CA-CB-CG	5.95	124.70	113.40
6	J	386	ASP	CB-CA-C	5.94	122.28	110.40
5	F	1010	LEU	CB-CG-CD2	-5.93	100.91	111.00
5	F	1234	GLY	CA-C-N	-5.92	104.17	117.20
7	W	446	ARG	CG-CD-NE	-5.92	99.36	111.80
7	K	446	ARG	CG-CD-NE	-5.92	99.36	111.80
5	R	1234	GLY	CA-C-N	-5.91	104.19	117.20
2	O	385	ARG	NE-CZ-NH1	5.91	123.25	120.30
7	K	450	PRO	CB-CA-C	-5.90	97.25	112.00
7	W	450	PRO	CB-CA-C	-5.90	97.26	112.00
3	P	1128	GLN	N-CA-CB	5.88	121.18	110.60
5	F	644	LYS	O-C-N	5.87	132.10	122.70
5	R	750	TRP	O-C-N	-5.87	109.94	121.10
5	R	644	LYS	O-C-N	5.86	132.07	122.70
5	F	750	TRP	O-C-N	-5.86	109.97	121.10
5	R	1090	PRO	N-CD-CG	5.86	111.98	103.20
2	C	1182	ARG	NE-CZ-NH1	5.85	123.23	120.30
7	T	426	GLY	O-C-N	5.84	132.05	122.70
5	F	833	THR	O-C-N	5.83	132.04	122.70
3	D	1128	GLN	N-CA-CB	5.83	121.10	110.60
5	F	865	LEU	CB-CG-CD1	-5.81	101.12	111.00
7	H	426	GLY	O-C-N	5.81	131.99	122.70
5	R	1088	ARG	O-C-N	5.80	131.99	122.70
5	R	833	THR	O-C-N	5.80	131.99	122.70
2	C	385	ARG	NE-CZ-NH1	5.80	123.20	120.30
5	R	865	LEU	CB-CG-CD1	-5.79	101.15	111.00
5	F	1090	PRO	N-CD-CG	5.79	111.88	103.20
7	T	425	ARG	CA-C-O	-5.78	107.95	120.10
5	R	443	ILE	CG1-CB-CG2	-5.78	98.68	111.40
5	F	750	TRP	CA-CB-CG	5.78	124.67	113.70
7	H	425	ARG	CA-C-O	-5.78	107.97	120.10
5	F	443	ILE	CG1-CB-CG2	-5.77	98.70	111.40
5	F	1088	ARG	O-C-N	5.76	131.92	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	750	TRP	CA-CB-CG	5.76	124.65	113.70
1	A	114	ARG	N-CA-CB	5.76	120.97	110.60
2	O	431	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	M	114	ARG	N-CA-CB	5.75	120.96	110.60
5	F	186	LEU	CA-CB-CG	5.74	128.50	115.30
1	Z	54	PHE	CB-CA-C	-5.74	98.92	110.40
5	R	186	LEU	CA-CB-CG	5.72	128.46	115.30
5	F	1158	THR	CB-CA-C	5.70	127.00	111.60
1	N	294	MET	CA-CB-CG	5.70	122.98	113.30
1	Z	294	MET	CA-CB-CG	5.69	122.98	113.30
1	N	54	PHE	CB-CA-C	-5.69	99.02	110.40
5	R	1158	THR	CB-CA-C	5.68	126.95	111.60
2	C	718	ARG	NE-CZ-NH2	-5.68	117.46	120.30
5	R	833	THR	C-N-CA	5.67	135.87	121.70
2	O	718	ARG	NE-CZ-NH2	-5.66	117.47	120.30
7	H	427	LEU	CA-C-N	5.65	132.93	117.10
5	F	833	THR	C-N-CA	5.65	135.83	121.70
5	F	1075	LEU	CB-CG-CD1	-5.65	101.39	111.00
1	M	54	PHE	CB-CA-C	-5.65	99.10	110.40
5	R	1075	LEU	CB-CG-CD1	-5.65	101.40	111.00
1	Z	283	LEU	CA-CB-CG	5.64	128.28	115.30
1	N	283	LEU	CA-CB-CG	5.64	128.27	115.30
7	T	427	LEU	CA-C-N	5.62	132.84	117.10
7	W	518	ARG	CB-CA-C	5.62	121.64	110.40
5	R	1116	VAL	CG1-CB-CG2	-5.62	101.91	110.90
5	F	366	ILE	C-N-CA	5.60	135.70	121.70
5	R	1401	LEU	CB-CG-CD2	5.60	120.52	111.00
1	A	54	PHE	CB-CA-C	-5.59	99.21	110.40
5	R	77	LEU	CA-CB-CG	5.59	128.16	115.30
5	R	366	ILE	C-N-CA	5.56	135.60	121.70
5	F	1116	VAL	CG1-CB-CG2	-5.56	102.01	110.90
5	F	77	LEU	CA-CB-CG	5.55	128.08	115.30
5	F	1401	LEU	CB-CG-CD2	5.55	120.43	111.00
7	K	320	GLU	C-N-CA	5.54	135.54	121.70
4	E	1384	ASP	CB-CA-C	5.53	121.47	110.40
1	A	43	GLN	O-C-N	-5.53	113.85	122.70
4	Q	1384	ASP	CB-CA-C	5.52	121.44	110.40
5	F	889	ILE	CA-C-N	5.51	129.33	117.20
7	W	320	GLU	C-N-CA	5.51	135.47	121.70
5	F	1188	THR	C-N-CA	5.51	135.47	121.70
5	F	1314	VAL	N-CA-C	5.50	125.84	111.00
5	R	1314	VAL	N-CA-C	5.50	125.84	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	803	ALA	N-CA-CB	5.49	117.79	110.10
5	F	193	LEU	CA-CB-CG	5.48	127.91	115.30
5	R	1188	THR	C-N-CA	5.48	135.40	121.70
2	O	1198	ARG	NE-CZ-NH1	5.47	123.04	120.30
5	R	193	LEU	CA-CB-CG	5.47	127.88	115.30
5	R	889	ILE	CA-C-N	5.46	129.22	117.20
7	K	413	LEU	CA-CB-CG	5.46	127.87	115.30
6	V	380	TYR	CB-CA-C	5.46	121.31	110.40
5	R	803	ALA	N-CA-CB	5.46	117.74	110.10
7	W	413	LEU	CA-CB-CG	5.45	127.84	115.30
5	F	356	ILE	C-N-CA	5.44	144.86	122.00
3	P	1284	ARG	NE-CZ-NH1	5.44	123.02	120.30
5	R	903	ASN	C-N-CA	5.44	135.30	121.70
5	R	356	ILE	C-N-CA	5.44	144.84	122.00
2	C	104	ARG	NE-CZ-NH2	-5.43	117.58	120.30
5	F	803	ALA	C-N-CA	-5.43	108.11	121.70
5	F	903	ASN	C-N-CA	5.43	135.28	121.70
1	M	43	GLN	O-C-N	-5.43	114.02	122.70
2	C	1198	ARG	NE-CZ-NH1	5.41	123.01	120.30
6	J	380	TYR	CB-CA-C	5.39	121.19	110.40
5	F	1075	LEU	CA-CB-CG	5.39	127.70	115.30
5	F	1382	TYR	CB-CG-CD1	5.39	124.23	121.00
5	R	803	ALA	C-N-CA	-5.39	108.22	121.70
1	M	43	GLN	C-N-CA	-5.37	108.28	121.70
7	W	452	GLY	C-N-CA	5.37	135.12	121.70
5	R	781	LEU	CA-CB-CG	5.37	127.64	115.30
5	R	1075	LEU	CA-CB-CG	5.36	127.63	115.30
5	F	781	LEU	CA-CB-CG	5.35	127.61	115.30
7	T	444	LEU	CA-CB-CG	5.35	127.61	115.30
7	K	452	GLY	C-N-CA	5.35	135.07	121.70
5	R	827	ILE	C-N-CA	5.34	135.06	121.70
1	A	43	GLN	C-N-CA	-5.33	108.38	121.70
6	V	370	ASP	CA-CB-CG	5.32	125.10	113.40
5	R	1160	TYR	CB-CG-CD2	5.31	124.19	121.00
6	J	370	ASP	CA-CB-CG	5.31	125.09	113.40
7	W	431	ILE	C-N-CA	-5.30	108.44	121.70
7	K	451	ALA	N-CA-C	5.30	125.32	111.00
5	F	827	ILE	C-N-CA	5.30	134.95	121.70
5	F	1010	LEU	CA-CB-CG	5.30	127.49	115.30
7	H	444	LEU	CA-CB-CG	5.30	127.48	115.30
4	Q	212	TRP	O-C-N	5.29	131.17	122.70
5	R	1010	LEU	CA-CB-CG	5.29	127.47	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	W	451	ALA	N-CA-C	5.29	125.27	111.00
5	R	345	ARG	N-CA-CB	5.28	120.11	110.60
1	Z	642	LEU	CA-CB-CG	5.28	127.44	115.30
7	K	431	ILE	C-N-CA	-5.28	108.51	121.70
2	O	1240	ARG	NE-CZ-NH1	5.27	122.94	120.30
5	F	1160	TYR	CB-CG-CD2	5.27	124.16	121.00
1	N	642	LEU	CA-CB-CG	5.27	127.41	115.30
4	E	212	TRP	O-C-N	5.26	131.12	122.70
4	E	585	ASP	CB-CG-OD2	5.26	123.03	118.30
5	F	345	ARG	N-CA-CB	5.25	120.06	110.60
2	C	708	ARG	NE-CZ-NH1	5.25	122.92	120.30
8	U	753	GLU	CB-CA-C	-5.24	99.93	110.40
8	I	753	GLU	CB-CA-C	-5.22	99.96	110.40
5	R	1208	GLU	N-CA-C	-5.21	96.92	111.00
5	F	108	LEU	CA-CB-CG	5.21	127.29	115.30
2	O	708	ARG	NE-CZ-NH1	5.21	122.91	120.30
5	R	108	LEU	CA-CB-CG	5.21	127.28	115.30
5	F	1208	GLU	N-CA-C	-5.21	96.94	111.00
2	C	1386	ARG	NE-CZ-NH1	5.20	122.90	120.30
6	V	380	TYR	CB-CG-CD1	-5.20	117.88	121.00
7	W	321	ALA	N-CA-CB	5.20	117.37	110.10
2	O	104	ARG	NE-CZ-NH2	-5.18	117.71	120.30
3	D	1284	ARG	NE-CZ-NH1	5.17	122.89	120.30
2	O	1386	ARG	NE-CZ-NH1	5.17	122.88	120.30
5	F	597	LEU	CA-CB-CG	5.16	127.17	115.30
4	Q	585	ASP	CB-CG-OD2	5.16	122.94	118.30
5	R	675	LEU	CA-CB-CG	5.15	127.14	115.30
7	H	506	ILE	C-N-CA	5.15	134.57	121.70
5	F	675	LEU	CA-CB-CG	5.15	127.14	115.30
2	O	1057	TYR	CB-CG-CD2	-5.15	117.91	121.00
7	T	506	ILE	C-N-CA	5.14	134.56	121.70
2	C	749	ARG	NE-CZ-NH1	5.14	122.87	120.30
6	J	380	TYR	CB-CG-CD1	-5.14	117.92	121.00
7	K	321	ALA	N-CA-CB	5.14	117.30	110.10
5	R	1382	TYR	CB-CG-CD1	5.14	124.08	121.00
5	R	1185	ILE	O-C-N	-5.14	114.48	122.70
3	P	528	PRO	CA-N-CD	-5.13	104.32	111.50
5	R	597	LEU	CA-CB-CG	5.13	127.09	115.30
5	F	1088	ARG	NE-CZ-NH1	-5.12	117.74	120.30
5	R	1088	ARG	NE-CZ-NH1	-5.11	117.74	120.30
2	O	749	ARG	NE-CZ-NH1	5.11	122.86	120.30
2	C	1057	TYR	CB-CG-CD2	-5.10	117.94	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	562	LEU	CA-CB-CG	5.10	127.03	115.30
5	F	1087	CYS	CA-CB-SG	5.10	123.18	114.00
5	R	880	GLU	CB-CA-C	-5.08	100.23	110.40
5	R	562	LEU	CA-CB-CG	5.08	126.98	115.30
5	F	1185	ILE	O-C-N	-5.08	114.58	122.70
2	C	386	ARG	NE-CZ-NH1	5.07	122.84	120.30
3	D	528	PRO	CA-N-CD	-5.07	104.40	111.50
5	R	1087	CYS	CA-CB-SG	5.07	123.13	114.00
1	N	751	LEU	N-CA-CB	-5.07	100.26	110.40
1	Z	751	LEU	N-CA-CB	-5.07	100.26	110.40
5	F	880	GLU	CB-CA-C	-5.07	100.26	110.40
6	V	373	PHE	N-CA-CB	5.06	119.70	110.60
6	J	370	ASP	CB-CA-C	5.05	120.51	110.40
5	R	1183	TYR	C-N-CA	-5.03	109.13	121.70
6	J	373	PHE	N-CA-CB	5.03	119.64	110.60
6	V	370	ASP	CB-CA-C	5.02	120.45	110.40
2	O	727	ARG	NE-CZ-NH1	5.02	122.81	120.30
5	F	1183	TYR	C-N-CA	-5.02	109.15	121.70
7	T	535	LYS	CB-CA-C	5.01	120.42	110.40
5	F	240	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (19) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	F	1185	ILE	Mainchain
5	F	1188	THR	Mainchain
5	F	360	LEU	Mainchain
5	F	814	ASN	Mainchain
6	G	422	GLY	Mainchain
7	H	509	ILE	Mainchain
7	K	380	LEU	Mainchain
7	K	488	THR	Mainchain
1	N	249	ARG	Mainchain
1	N	748	SER	Mainchain
5	R	1185	ILE	Mainchain
5	R	1188	THR	Mainchain
5	R	360	LEU	Mainchain
5	R	814	ASN	Mainchain
6	S	422	GLY	Mainchain
7	T	509	ILE	Mainchain
7	W	380	LEU	Mainchain

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Mol	Chain	Res	Type	Group
7	W	488	THR	Mainchain
1	Z	748	SER	Mainchain

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	5720	0	5578	305	0
1	M	5697	0	5563	302	0
1	N	5766	0	5590	494	0
1	Z	5767	0	5596	531	0
2	C	10452	0	10392	51	0
2	O	10452	0	10392	50	0
3	D	10966	0	10812	459	0
3	P	10956	0	10803	473	0
4	E	12362	0	12566	356	0
4	Q	12362	0	12566	336	0
5	F	12239	0	11567	842	0
5	R	12239	0	11568	850	0
6	G	1533	0	1515	124	0
6	J	1492	0	1465	287	0
6	S	1529	0	1504	112	0
6	V	1492	0	1465	323	0
7	H	1811	0	1697	146	0
7	K	1808	0	1614	306	0
7	T	1811	0	1697	152	0
7	W	1805	0	1605	321	0
8	I	1418	0	1293	168	0
8	L	1366	0	1211	160	0
8	U	1418	0	1293	168	0
8	X	1366	0	1211	145	0
All	All	133827	0	130563	6256	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 24.

All (6256) 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:N:810:ALA:CB	1:N:836:ASP:HA	1.26	1.63
6:G:451:MET:CE	1:M:14:THR:HG21	1.19	1.62
1:A:15:SER:HB2	6:S:447:PHE:CZ	1.35	1.61
3:D:955:PRO:CB	3:D:994:SER:CB	1.78	1.61
5:R:1357:ALA:HB2	5:R:1381:LEU:CB	1.19	1.60
1:Z:810:ALA:CB	1:Z:836:ASP:HA	1.26	1.59
3:P:955:PRO:CB	3:P:994:SER:CB	1.78	1.58
5:R:841:PHE:CD2	5:R:918:PHE:HE1	1.21	1.57
7:H:522:TYR:CB	1:Z:54:PHE:CB	1.82	1.57
5:F:841:PHE:CD2	5:F:918:PHE:HE1	1.21	1.56
1:N:54:PHE:CB	7:T:522:TYR:CB	1.82	1.55
5:R:376:ASN:CB	5:R:381:THR:CA	1.82	1.55
5:F:1357:ALA:HB2	5:F:1381:LEU:CB	1.19	1.55
5:F:376:ASN:CB	5:F:381:THR:CA	1.83	1.53
3:P:1140:LYS:NZ	1:Z:204:GLU:HA	1.24	1.53
6:J:325:TYR:CE2	7:K:390:HIS:HA	1.44	1.52
7:K:538:LYS:HA	8:L:822:LYS:CB	1.10	1.52
6:J:383:LYS:NZ	8:L:756:ASN:CA	1.73	1.51
6:V:325:TYR:CE2	7:W:390:HIS:HA	1.45	1.49
7:H:420:ALA:HB1	8:I:745:TYR:CE1	1.49	1.47
6:V:383:LYS:NZ	8:X:756:ASN:CA	1.73	1.46
1:N:245:ALA:HB2	1:N:250:ASN:CB	1.43	1.46
1:N:753:ALA:HB1	1:N:815:ILE:C	1.35	1.45
6:V:357:LEU:HB3	7:W:423:LYS:CE	1.46	1.45
1:Z:252:GLN:OE1	1:Z:498:PHE:CE2	1.70	1.45
6:J:357:LEU:HB3	7:K:423:LYS:CE	1.46	1.44
7:H:418:GLN:NE2	8:I:718:THR:CG2	1.81	1.44
1:A:772:PRO:CB	1:A:828:THR:HG21	1.47	1.43
6:S:404:ASP:CB	6:S:425:GLU:CB	1.97	1.43
7:W:389:LYS:HA	7:W:393:ASP:CB	1.49	1.43
7:T:420:ALA:HB1	8:U:745:TYR:CE1	1.49	1.43
7:W:389:LYS:CA	7:W:393:ASP:HB3	1.49	1.43
7:K:483:VAL:O	7:K:492:ASP:CB	1.66	1.42
1:Z:753:ALA:HB1	1:Z:815:ILE:C	1.35	1.42
7:T:418:GLN:NE2	8:U:718:THR:CG2	1.81	1.42
7:K:321:ALA:CA	7:K:348:ILE:HD11	1.50	1.42
7:W:483:VAL:O	7:W:492:ASP:CB	1.66	1.41
3:D:1140:LYS:NZ	1:N:204:GLU:HA	1.28	1.41
3:D:920:GLU:CB	1:N:294:MET:HG2	1.51	1.41
1:N:757:ALA:CB	1:N:819:MET:O	1.68	1.41
1:M:772:PRO:CB	1:M:828:THR:HG21	1.47	1.40
1:Z:757:ALA:CB	1:Z:819:MET:O	1.68	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:SER:CB	6:S:447:PHE:CE2	2.04	1.40
6:G:404:ASP:CB	6:G:425:GLU:CB	1.97	1.39
8:I:818:ILE:O	8:I:821:ILE:CG2	1.68	1.39
1:Z:746:PRO:CB	1:Z:753:ALA:HA	1.52	1.39
1:A:15:SER:CB	6:S:447:PHE:CZ	2.05	1.39
5:R:1353:LEU:CB	5:R:1384:LEU:CB	2.01	1.39
8:U:818:ILE:O	8:U:821:ILE:CG2	1.68	1.39
7:K:389:LYS:HA	7:K:393:ASP:CB	1.49	1.38
3:P:1136:ASP:CB	1:Z:203:ASN:O	1.67	1.38
5:F:841:PHE:CD2	5:F:918:PHE:CE1	2.11	1.38
5:F:1353:LEU:CB	5:F:1384:LEU:CB	2.01	1.38
3:P:920:GLU:CB	1:Z:294:MET:HG2	1.54	1.38
5:F:1116:VAL:HG11	5:F:1150:PHE:CE2	1.58	1.38
7:K:389:LYS:CA	7:K:393:ASP:HB3	1.49	1.38
1:N:810:ALA:CB	1:N:836:ASP:CA	2.02	1.38
5:R:1116:VAL:HG11	5:R:1150:PHE:CE2	1.58	1.38
7:W:321:ALA:CA	7:W:348:ILE:HD11	1.50	1.38
1:N:746:PRO:CB	1:N:753:ALA:HA	1.52	1.37
5:R:228:PHE:H	5:R:361:LEU:CB	1.37	1.37
5:R:841:PHE:CD2	5:R:918:PHE:CE1	2.11	1.37
1:A:15:SER:HB3	6:S:447:PHE:CE2	1.58	1.37
4:E:1022:TYR:CE2	4:E:1026:THR:HG21	1.60	1.37
7:K:483:VAL:CB	7:K:493:SER:O	1.72	1.36
7:W:483:VAL:CB	7:W:493:SER:O	1.72	1.36
5:R:376:ASN:CB	5:R:381:THR:HA	0.88	1.36
5:F:334:GLN:NE2	5:F:859:LYS:NZ	1.73	1.35
1:N:49:LEU:CD1	6:S:331:LYS:HE2	1.56	1.35
1:A:128:LEU:HD22	4:E:1260:TYR:CE2	1.61	1.35
6:J:388:CYS:CB	7:K:455:LYS:HD2	1.52	1.35
3:D:1134:SER:O	1:N:206:ASN:ND2	1.58	1.35
1:Z:810:ALA:CB	1:Z:836:ASP:CA	2.02	1.35
6:J:383:LYS:NZ	8:L:756:ASN:HA	1.03	1.35
7:K:538:LYS:CA	8:L:822:LYS:CB	2.01	1.35
5:F:228:PHE:H	5:F:361:LEU:CB	1.37	1.35
5:F:1227:THR:CB	7:H:475:SER:OG	1.74	1.35
5:R:334:GLN:NE2	5:R:859:LYS:HZ2	1.20	1.35
5:F:334:GLN:HE21	5:F:859:LYS:NZ	1.24	1.34
5:F:376:ASN:CB	5:F:381:THR:HA	0.88	1.34
5:F:1357:ALA:CB	5:F:1381:LEU:CB	2.05	1.34
1:M:128:LEU:HD22	4:Q:1260:TYR:CE2	1.61	1.34
6:V:383:LYS:NZ	8:X:756:ASN:HA	1.03	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1022:TYR:CE2	4:Q:1026:THR:HG21	1.60	1.34
5:F:902:LYS:HE2	7:H:414:LYS:CD	1.58	1.34
5:R:1227:THR:CB	7:T:475:SER:OG	1.74	1.34
5:F:1633:TYR:CE2	5:F:1635:ARG:HB2	1.63	1.33
6:G:331:LYS:HE2	1:Z:49:LEU:CD1	1.56	1.33
5:R:1357:ALA:CB	5:R:1381:LEU:CB	2.05	1.33
5:R:334:GLN:HG3	5:R:854:GLU:OE2	1.25	1.33
5:R:334:GLN:HE21	5:R:859:LYS:NZ	1.24	1.33
6:J:388:CYS:HB2	7:K:455:LYS:CD	1.59	1.33
5:R:334:GLN:NE2	5:R:859:LYS:NZ	1.73	1.33
5:R:902:LYS:HE2	7:T:414:LYS:CD	1.58	1.32
5:R:1084:LEU:HA	5:R:1156:TYR:OH	1.29	1.32
5:F:1561:LEU:CD2	5:R:1667:VAL:HG21	1.58	1.32
7:H:418:GLN:HE21	8:I:718:THR:CG2	1.38	1.31
1:Z:810:ALA:HB1	1:Z:836:ASP:CA	1.57	1.31
5:R:1633:TYR:CE2	5:R:1635:ARG:HB2	1.63	1.31
5:F:334:GLN:HG3	5:F:854:GLU:OE2	1.24	1.30
1:N:810:ALA:HB3	1:N:836:ASP:O	1.30	1.30
1:A:43:GLN:O	1:A:44:VAL:CB	1.68	1.30
6:V:357:LEU:CB	7:W:423:LYS:HE3	1.61	1.30
6:V:400:GLY:O	6:V:403:THR:HG22	1.21	1.30
5:R:902:LYS:CE	7:T:414:LYS:HD2	1.62	1.30
5:F:902:LYS:CE	7:H:414:LYS:HD2	1.62	1.29
3:P:1140:LYS:HZ2	1:Z:204:GLU:CA	1.44	1.29
5:F:1116:VAL:HG11	5:F:1150:PHE:CZ	1.68	1.29
1:M:43:GLN:O	1:M:44:VAL:CB	1.68	1.29
1:M:128:LEU:HD22	4:Q:1260:TYR:CD2	1.67	1.29
1:M:140:ILE:CG2	4:Q:1393:LYS:HD3	1.62	1.29
7:T:418:GLN:HE21	8:U:718:THR:CG2	1.38	1.29
8:X:775:THR:O	8:X:779:THR:CB	1.78	1.29
1:A:140:ILE:CG2	4:E:1393:LYS:HD3	1.62	1.28
5:R:1116:VAL:HG11	5:R:1150:PHE:CZ	1.68	1.28
6:J:357:LEU:CB	7:K:423:LYS:HE3	1.60	1.28
7:K:321:ALA:N	7:K:348:ILE:HD11	1.47	1.28
1:M:128:LEU:HD13	4:Q:1260:TYR:CZ	1.67	1.28
1:N:207:ILE:CD1	1:N:247:GLY:HA3	1.61	1.28
8:L:775:THR:O	8:L:779:THR:CB	1.78	1.28
7:W:321:ALA:N	7:W:348:ILE:HD11	1.47	1.28
1:A:128:LEU:HD13	4:E:1260:TYR:CZ	1.67	1.28
6:V:383:LYS:HZ1	8:X:756:ASN:CA	1.39	1.28
5:F:675:LEU:O	5:F:679:ILE:HG12	1.13	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:333:ILE:O	6:J:336:PHE:CB	1.82	1.27
1:N:753:ALA:CB	1:N:815:ILE:C	2.02	1.27
3:P:242:MET:SD	3:P:298:TYR:CE2	2.28	1.27
1:A:128:LEU:HD22	4:E:1260:TYR:CD2	1.68	1.27
3:D:242:MET:SD	3:D:298:TYR:CE2	2.28	1.27
1:Z:810:ALA:HB3	1:Z:836:ASP:O	1.30	1.27
1:N:810:ALA:HB1	1:N:836:ASP:CA	1.57	1.27
5:F:1084:LEU:HA	5:F:1156:TYR:OH	1.29	1.26
6:V:333:ILE:O	6:V:336:PHE:CB	1.82	1.26
7:H:418:GLN:NE2	8:I:718:THR:HG23	1.42	1.26
1:A:59:LYS:C	8:L:807:LEU:CB	2.03	1.26
1:M:59:LYS:C	8:X:807:LEU:CB	2.03	1.26
1:Z:753:ALA:CB	1:Z:815:ILE:C	2.02	1.26
7:K:321:ALA:HA	7:K:348:ILE:CG1	1.65	1.25
7:W:321:ALA:HA	7:W:348:ILE:CG1	1.65	1.25
6:J:383:LYS:NZ	8:L:756:ASN:CG	1.89	1.24
1:N:746:PRO:CB	1:N:816:TYR:CB	2.16	1.24
1:A:772:PRO:HB3	1:A:828:THR:CG2	1.68	1.23
1:N:753:ALA:HB1	1:N:816:TYR:N	1.54	1.23
5:R:675:LEU:O	5:R:679:ILE:HG12	1.13	1.23
6:G:451:MET:CE	1:M:14:THR:CG2	2.15	1.23
6:V:383:LYS:NZ	8:X:756:ASN:CG	1.89	1.23
6:G:431:GLN:HA	7:H:503:ASN:CB	1.67	1.23
6:V:390:ILE:O	6:V:394:ILE:HG23	1.37	1.23
1:Z:746:PRO:CB	1:Z:816:TYR:CB	2.16	1.23
5:F:800:ILE:HG12	5:F:885:GLU:OE1	1.37	1.23
6:V:463:LYS:HG2	7:W:530:ASP:OD2	1.06	1.22
1:N:252:GLN:OE1	1:N:498:PHE:HD2	1.20	1.22
6:G:327:LYS:NZ	1:Z:46:ILE:HB	1.54	1.22
6:S:431:GLN:HA	7:T:503:ASN:CB	1.67	1.22
1:N:824:MET:HG2	1:N:825:PRO:CD	1.70	1.22
1:M:772:PRO:HB3	1:M:828:THR:CG2	1.68	1.21
6:V:400:GLY:O	6:V:403:THR:CG2	1.87	1.21
1:Z:753:ALA:HB1	1:Z:816:TYR:N	1.54	1.21
5:F:1129:ASN:ND2	5:F:1132:GLU:HB3	1.55	1.21
1:N:46:ILE:HB	6:S:327:LYS:NZ	1.54	1.21
3:P:1136:ASP:OD2	1:Z:203:ASN:O	1.57	1.21
5:R:800:ILE:HG12	5:R:885:GLU:OE1	1.37	1.21
1:M:814:MET:HG3	1:M:833:ILE:CD1	1.71	1.20
3:P:1020:ASN:CB	1:Z:251:ALA:HB3	1.71	1.20
6:J:383:LYS:HZ1	8:L:756:ASN:CA	1.39	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:824:MET:HG2	1:Z:825:PRO:CD	1.70	1.20
7:T:418:GLN:NE2	8:U:718:THR:HG23	1.42	1.20
1:Z:807:LYS:HA	1:Z:836:ASP:O	1.41	1.20
4:E:1022:TYR:CE2	4:E:1026:THR:CG2	2.25	1.19
5:F:800:ILE:CG1	5:F:885:GLU:OE1	1.90	1.19
8:U:773:SER:O	8:U:777:ASN:CB	1.90	1.19
3:D:1244:ASN:CB	1:Z:826:ARG:CB	2.21	1.19
4:Q:1022:TYR:CD2	4:Q:1026:THR:HG21	1.76	1.19
5:R:800:ILE:CG1	5:R:885:GLU:OE1	1.90	1.19
1:N:826:ARG:CB	3:P:1244:ASN:CB	2.21	1.19
4:Q:1022:TYR:CE2	4:Q:1026:THR:CG2	2.25	1.19
1:A:814:MET:HG3	1:A:833:ILE:CD1	1.72	1.18
4:E:1022:TYR:CD2	4:E:1026:THR:HG21	1.76	1.18
7:H:418:GLN:NE2	8:I:718:THR:HG21	1.55	1.18
5:R:1129:ASN:ND2	5:R:1132:GLU:HB3	1.55	1.18
6:V:398:VAL:HG21	7:W:462:ARG:O	1.41	1.18
5:R:1529:ALA:HB2	5:R:1611:VAL:HG13	1.22	1.18
6:J:364:ILE:HA	7:K:424:ASN:ND2	1.55	1.18
8:I:773:SER:O	8:I:777:ASN:CB	1.90	1.18
1:N:807:LYS:HA	1:N:836:ASP:O	1.41	1.18
3:P:920:GLU:CB	1:Z:294:MET:CG	2.21	1.18
3:D:920:GLU:CB	1:N:294:MET:CG	2.21	1.17
6:S:430:LEU:CB	8:U:780:THR:HA	1.74	1.17
1:M:28:SER:CB	1:Z:23:ASN:HA	1.74	1.17
6:V:364:ILE:HA	7:W:424:ASN:ND2	1.55	1.17
6:V:383:LYS:NZ	8:X:756:ASN:CB	2.07	1.17
1:Z:252:GLN:OE1	1:Z:498:PHE:HE2	0.86	1.17
4:E:1309:ARG:O	4:E:1313:ARG:HG3	1.45	1.17
6:G:430:LEU:CB	8:I:780:THR:HA	1.74	1.17
1:Z:757:ALA:HB2	1:Z:819:MET:C	1.64	1.17
3:D:1134:SER:O	1:N:206:ASN:CG	1.67	1.16
6:J:383:LYS:NZ	8:L:756:ASN:CB	2.07	1.16
4:Q:1309:ARG:O	4:Q:1313:ARG:HG3	1.45	1.16
8:I:810:ASN:OD1	1:Z:59:LYS:CB	1.94	1.16
1:M:783:SER:HA	1:M:839:LEU:HA	1.26	1.16
3:D:1140:LYS:HZ2	1:N:204:GLU:CA	1.57	1.16
3:P:1020:ASN:OD1	1:Z:252:GLN:HG2	1.41	1.16
7:W:446:ARG:HH22	7:W:455:LYS:NZ	1.44	1.16
3:D:1238:ARG:HA	1:Z:830:SER:HB3	1.28	1.15
1:N:757:ALA:HB2	1:N:819:MET:C	1.64	1.15
7:H:425:ARG:C	7:H:427:LEU:H	1.48	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:814:MET:CB	1:Z:833:ILE:HD13	1.76	1.15
7:K:444:LEU:O	7:K:447:SER:CB	1.95	1.15
3:P:1136:ASP:CG	1:Z:203:ASN:O	1.83	1.15
5:F:354:ARG:HB2	5:F:356:ILE:HG22	1.28	1.14
7:K:446:ARG:HH22	7:K:455:LYS:NZ	1.44	1.14
1:N:59:LYS:CB	8:U:810:ASN:OD1	1.94	1.14
1:N:814:MET:CB	1:N:833:ILE:HD13	1.76	1.14
6:V:380:TYR:HE2	8:X:751:LEU:HD21	1.08	1.14
7:W:444:LEU:O	7:W:447:SER:CB	1.95	1.14
7:T:425:ARG:C	7:T:427:LEU:H	1.48	1.14
5:F:1529:ALA:HB2	5:F:1611:VAL:HG13	1.21	1.14
7:W:336:ASP:O	7:W:340:GLU:HB2	1.48	1.14
6:V:431:GLN:HA	7:W:500:GLU:H	1.10	1.14
5:R:841:PHE:HD2	5:R:918:PHE:CE1	1.55	1.13
1:N:753:ALA:CB	1:N:816:TYR:N	2.11	1.13
3:D:1137:ASP:CB	1:N:205:ASN:CB	2.26	1.13
1:Z:753:ALA:CB	1:Z:816:TYR:N	2.11	1.13
5:F:675:LEU:O	5:F:679:ILE:CG1	1.96	1.13
5:R:675:LEU:O	5:R:679:ILE:CG1	1.96	1.13
1:A:775:LEU:HB3	1:A:832:LEU:CD1	1.79	1.13
5:F:1558:ASP:O	5:R:1681:ASN:CB	1.97	1.12
7:K:336:ASP:O	7:K:340:GLU:HB2	1.48	1.12
1:M:775:LEU:HB3	1:M:832:LEU:CD1	1.79	1.12
5:R:690:GLU:CD	8:U:722:LEU:HD21	1.69	1.12
6:V:398:VAL:CG2	7:W:466:LEU:CD1	2.26	1.12
1:N:46:ILE:HB	6:S:327:LYS:HZ3	0.96	1.12
1:N:810:ALA:HB3	1:N:836:ASP:C	1.69	1.12
5:R:734:LEU:CD2	5:R:817:ASN:OD1	1.98	1.12
1:Z:824:MET:CG	1:Z:825:PRO:HD3	1.80	1.12
6:J:380:TYR:HE2	8:L:751:LEU:HD21	1.08	1.12
7:W:321:ALA:CA	7:W:348:ILE:CD1	2.27	1.12
7:W:321:ALA:HA	7:W:348:ILE:CD1	1.80	1.12
5:F:734:LEU:CD2	5:F:817:ASN:OD1	1.98	1.12
1:N:830:SER:HB3	3:P:1238:ARG:HA	1.28	1.12
6:V:404:ASP:O	6:V:408:ALA:CB	1.97	1.12
1:Z:810:ALA:CA	1:Z:836:ASP:HA	1.80	1.11
3:D:1493:ASN:HA	5:F:1471:LYS:HD2	1.32	1.11
7:W:509:ILE:HG22	1:Z:12:SER:OG	1.50	1.11
5:F:1203:TYR:CB	5:F:1299:ASN:HD21	1.63	1.11
3:P:1493:ASN:HA	5:R:1471:LYS:HD2	1.32	1.11
5:R:354:ARG:HB2	5:R:356:ILE:HG22	1.28	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:463:LYS:CG	7:W:530:ASP:OD2	1.98	1.11
1:Z:757:ALA:HB1	1:Z:819:MET:O	1.40	1.11
6:G:289:GLN:HE22	6:J:352:VAL:HG22	0.96	1.11
7:K:321:ALA:CA	7:K:348:ILE:CD1	2.27	1.11
7:K:321:ALA:HA	7:K:348:ILE:CD1	1.80	1.11
1:Z:810:ALA:HB3	1:Z:836:ASP:C	1.69	1.11
5:F:841:PHE:HD2	5:F:918:PHE:CE1	1.55	1.11
5:F:1550:LEU:CD2	5:F:1552:PHE:CZ	2.34	1.11
1:N:810:ALA:CA	1:N:836:ASP:HA	1.80	1.11
5:R:800:ILE:CD1	5:R:885:GLU:OE1	1.98	1.11
7:T:418:GLN:NE2	8:U:718:THR:HG21	1.55	1.11
5:F:922:LEU:HD23	7:H:400:LYS:CE	1.81	1.10
1:N:252:GLN:OE1	1:N:498:PHE:CD2	2.04	1.10
5:R:922:LEU:HD23	7:T:400:LYS:CE	1.81	1.10
1:Z:746:PRO:CB	1:Z:753:ALA:CA	2.29	1.10
5:F:800:ILE:CD1	5:F:885:GLU:OE1	1.98	1.10
5:F:690:GLU:CD	8:I:722:LEU:HD21	1.69	1.10
6:G:289:GLN:NE2	6:J:352:VAL:HG22	1.67	1.10
1:N:243:SER:HA	1:N:254:LEU:HD21	1.30	1.10
1:N:757:ALA:HB1	1:N:819:MET:O	1.40	1.10
5:R:1203:TYR:CB	5:R:1299:ASN:HD21	1.63	1.10
6:V:432:LEU:CB	8:X:782:ILE:C	2.20	1.10
6:V:432:LEU:CB	8:X:782:ILE:O	2.00	1.10
1:A:783:SER:HA	1:A:839:LEU:HA	1.25	1.10
6:J:405:LEU:HD12	7:K:470:ALA:HA	1.33	1.10
6:J:432:LEU:CB	8:L:782:ILE:O	2.00	1.10
6:V:398:VAL:HG23	7:W:466:LEU:CD1	1.79	1.10
1:Z:753:ALA:HB1	1:Z:815:ILE:O	1.52	1.10
1:N:824:MET:CG	1:N:825:PRO:HD3	1.79	1.10
3:P:1020:ASN:HB2	1:Z:251:ALA:CB	1.80	1.10
3:P:1136:ASP:HB3	1:Z:203:ASN:O	1.28	1.10
5:R:334:GLN:CG	5:R:854:GLU:OE2	1.99	1.10
5:R:1550:LEU:CD2	5:R:1552:PHE:CZ	2.34	1.10
6:V:405:LEU:HD12	7:W:470:ALA:HA	1.33	1.09
5:F:334:GLN:CG	5:F:854:GLU:OE2	1.99	1.09
1:N:746:PRO:CB	1:N:753:ALA:CA	2.29	1.09
6:J:432:LEU:CB	8:L:782:ILE:C	2.19	1.09
5:F:334:GLN:NE2	5:F:859:LYS:HZ3	1.36	1.09
6:J:431:GLN:HA	7:K:500:GLU:H	1.10	1.09
1:N:757:ALA:HB2	1:N:819:MET:O	1.46	1.08
5:F:922:LEU:HD23	7:H:400:LYS:NZ	1.68	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1529:ALA:CB	5:F:1611:VAL:HG13	1.84	1.08
5:F:1561:LEU:HD22	5:R:1667:VAL:HG21	1.20	1.08
1:M:128:LEU:HD13	4:Q:1260:TYR:OH	1.53	1.08
5:R:1550:LEU:CD1	5:R:1604:ILE:HD13	1.84	1.08
6:S:430:LEU:CB	8:U:780:THR:HG22	1.83	1.08
1:Z:814:MET:CB	1:Z:833:ILE:CD1	2.32	1.08
3:D:977:LYS:HE2	1:N:315:LYS:HA	1.27	1.08
5:R:922:LEU:HD23	7:T:400:LYS:NZ	1.68	1.08
3:D:977:LYS:HE2	1:N:315:LYS:CA	1.83	1.07
7:K:317:ASN:CB	7:K:346:GLN:HB3	1.83	1.07
7:K:482:MET:CB	8:L:784:ILE:HA	1.83	1.07
6:S:289:GLN:NE2	6:V:352:VAL:HG22	1.66	1.07
7:H:426:GLY:HA2	8:I:736:ASN:N	1.69	1.07
6:J:383:LYS:HZ2	8:L:756:ASN:CB	1.65	1.07
1:N:254:LEU:HB3	1:N:258:LYS:HE2	1.32	1.07
5:R:928:LEU:H	5:R:928:LEU:HD12	1.15	1.07
5:F:1550:LEU:CD1	5:F:1604:ILE:HD13	1.84	1.07
5:R:1529:ALA:CB	5:R:1611:VAL:HG13	1.84	1.07
7:W:482:MET:CB	8:X:784:ILE:HA	1.83	1.07
1:Z:824:MET:CB	1:Z:825:PRO:HD3	1.85	1.07
1:A:55:GLN:CB	7:K:521:THR:CB	2.32	1.07
3:D:1019:ARG:HB3	1:N:251:ALA:HB2	1.19	1.07
6:G:331:LYS:HE2	1:Z:49:LEU:HD11	1.29	1.07
6:G:430:LEU:CB	8:I:780:THR:HG22	1.83	1.07
1:N:753:ALA:HB1	1:N:815:ILE:O	1.52	1.07
7:T:420:ALA:CB	8:U:745:TYR:CE1	2.36	1.07
5:F:928:LEU:H	5:F:928:LEU:HD12	1.15	1.07
7:H:420:ALA:CB	8:I:745:TYR:CE1	2.36	1.07
6:J:383:LYS:HZ2	8:L:756:ASN:CG	1.48	1.07
1:A:814:MET:HG3	1:A:833:ILE:HD11	1.07	1.06
5:F:228:PHE:N	5:F:361:LEU:CB	2.18	1.06
6:G:327:LYS:HZ3	1:Z:46:ILE:HB	0.96	1.06
7:H:412:ILE:HG23	7:H:415:LEU:HD22	1.37	1.06
1:M:772:PRO:CA	1:M:828:THR:HG21	1.86	1.06
1:N:824:MET:CB	1:N:825:PRO:HD3	1.85	1.06
7:W:317:ASN:CB	7:W:346:GLN:HB3	1.83	1.06
1:A:128:LEU:HD13	4:E:1260:TYR:OH	1.53	1.06
3:D:242:MET:SD	3:D:298:TYR:CD2	2.48	1.06
5:F:837:TYR:HB2	5:F:918:PHE:CE2	1.90	1.06
3:P:1134:SER:HB3	1:Z:206:ASN:ND2	1.48	1.06
1:A:772:PRO:CA	1:A:828:THR:HG21	1.86	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:532:ALA:HB2	8:I:818:ILE:HD12	1.34	1.06
7:K:535:LYS:HA	8:L:818:ILE:CB	1.86	1.06
1:M:814:MET:HG3	1:M:833:ILE:HD11	1.07	1.06
1:N:814:MET:CB	1:N:833:ILE:CD1	2.32	1.06
7:H:412:ILE:HG23	7:H:415:LEU:CD2	1.86	1.06
3:P:242:MET:SD	3:P:298:TYR:CD2	2.48	1.06
3:P:1021:TYR:H	1:Z:249:ARG:HA	1.20	1.06
7:T:535:LYS:CB	8:U:821:ILE:HD11	1.86	1.06
6:V:383:LYS:HZ2	8:X:756:ASN:CG	1.49	1.06
5:F:1034:LEU:HD22	5:F:1092:THR:HB	1.37	1.05
6:J:391:LEU:HD22	7:K:452:GLY:O	1.56	1.05
7:K:513:LEU:HD21	8:L:800:HIS:CE1	1.90	1.05
2:O:1258:GLN:HG2	2:O:1299:LYS:CE	1.86	1.05
5:F:841:PHE:CE2	5:F:918:PHE:CE1	2.44	1.05
6:G:451:MET:HE1	1:M:14:THR:HG21	1.10	1.05
5:R:837:TYR:HB2	5:R:918:PHE:CE2	1.90	1.05
6:V:383:LYS:NZ	8:X:756:ASN:OD1	1.87	1.05
7:H:535:LYS:CB	8:I:821:ILE:HD11	1.86	1.05
1:N:49:LEU:HD11	6:S:331:LYS:HE2	1.29	1.05
4:Q:977:ALA:O	7:W:460:TRP:CB	2.04	1.05
1:N:751:LEU:O	1:N:753:ALA:N	1.89	1.05
6:S:289:GLN:HE22	6:V:352:VAL:HG22	0.95	1.05
7:T:426:GLY:HA2	8:U:736:ASN:N	1.69	1.05
2:C:1258:GLN:HG2	2:C:1299:LYS:CE	1.86	1.04
1:M:53:VAL:HG21	8:X:799:SER:OG	1.57	1.04
4:E:977:ALA:O	7:K:460:TRP:CB	2.04	1.04
6:J:383:LYS:NZ	8:L:756:ASN:OD1	1.87	1.04
7:T:532:ALA:HB2	8:U:818:ILE:HD12	1.34	1.04
6:V:383:LYS:HZ2	8:X:756:ASN:CB	1.66	1.04
6:V:463:LYS:HE2	7:W:526:VAL:HG12	1.37	1.04
1:A:814:MET:CG	1:A:833:ILE:HD11	1.86	1.04
1:M:814:MET:CG	1:M:833:ILE:HD11	1.86	1.04
3:P:1137:ASP:CB	1:Z:205:ASN:CB	2.35	1.04
5:R:841:PHE:CE2	5:R:918:PHE:CE1	2.44	1.04
5:R:228:PHE:N	5:R:361:LEU:CB	2.18	1.04
4:E:1022:TYR:CD2	4:E:1026:THR:CG2	2.39	1.04
1:M:140:ILE:HG21	4:Q:1393:LYS:HD3	1.05	1.04
1:Z:751:LEU:O	1:Z:753:ALA:N	1.89	1.04
5:F:1203:TYR:CB	5:F:1299:ASN:ND2	2.20	1.03
7:T:412:ILE:HG23	7:T:415:LEU:CD2	1.86	1.03
1:M:140:ILE:HG22	4:Q:1393:LYS:NZ	1.73	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:U:739:GLN:O	8:U:741:ARG:N	1.91	1.03
6:V:325:TYR:CE2	7:W:390:HIS:CA	2.41	1.03
3:D:1140:LYS:NZ	1:N:204:GLU:CA	2.17	1.03
1:N:27:GLU:OE2	1:N:30:ASP:HB3	1.58	1.03
5:R:350:ARG:O	5:R:393:SER:CB	2.06	1.03
4:E:1394:LYS:O	4:E:1398:VAL:HG23	1.59	1.03
6:J:325:TYR:CE2	7:K:390:HIS:CA	2.41	1.03
1:N:116:LYS:HZ3	1:N:116:LYS:HB3	1.23	1.03
5:R:1203:TYR:CB	5:R:1299:ASN:ND2	2.20	1.03
7:T:418:GLN:HE21	8:U:718:THR:HG23	0.86	1.03
2:C:318:ILE:H	2:C:318:ILE:HD12	1.17	1.02
4:E:1319:LEU:HD21	4:E:1398:VAL:CG2	1.89	1.02
5:F:690:GLU:CD	8:I:722:LEU:CD2	2.28	1.02
1:N:817:ALA:O	1:N:821:GLN:N	1.91	1.02
7:W:518:ARG:HH11	7:W:518:ARG:HB2	1.20	1.02
1:A:140:ILE:HG22	4:E:1393:LYS:NZ	1.73	1.02
5:F:350:ARG:O	5:F:393:SER:CB	2.06	1.02
1:N:824:MET:HG2	1:N:825:PRO:HD2	1.36	1.02
3:P:920:GLU:CB	1:Z:294:MET:SD	2.47	1.02
3:P:1136:ASP:HB2	1:Z:203:ASN:ND2	1.74	1.02
4:Q:1022:TYR:O	4:Q:1026:THR:HG23	1.59	1.02
1:Z:817:ALA:O	1:Z:821:GLN:N	1.91	1.02
1:M:59:LYS:CB	8:X:807:LEU:CB	2.38	1.02
4:Q:1022:TYR:CD2	4:Q:1026:THR:CG2	2.39	1.02
4:Q:1394:LYS:O	4:Q:1398:VAL:HG23	1.58	1.02
5:R:1034:LEU:HD22	5:R:1092:THR:HB	1.37	1.02
5:R:1129:ASN:HD21	5:R:1132:GLU:CB	1.73	1.02
1:A:53:VAL:HG21	8:L:799:SER:OG	1.57	1.02
5:F:159:LYS:HE3	5:F:363:ASP:HA	1.39	1.02
4:Q:210:ASN:HA	4:Q:213:PHE:CB	1.90	1.02
7:T:412:ILE:HG23	7:T:415:LEU:HD22	1.38	1.02
1:Z:753:ALA:HB1	1:Z:816:TYR:CA	1.90	1.02
1:A:59:LYS:CB	8:L:807:LEU:CB	2.38	1.02
1:M:814:MET:CG	1:M:833:ILE:CD1	2.37	1.02
2:O:318:ILE:HD12	2:O:318:ILE:H	1.17	1.02
4:Q:1319:LEU:HD21	4:Q:1398:VAL:CG2	1.88	1.02
5:R:159:LYS:HE3	5:R:363:ASP:HA	1.39	1.02
1:A:814:MET:CG	1:A:833:ILE:CD1	2.37	1.01
5:F:920:ILE:HG21	5:F:924:ALA:O	1.59	1.01
7:K:482:MET:CB	8:L:784:ILE:CA	2.38	1.01
5:R:920:ILE:HG21	5:R:924:ALA:O	1.59	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:920:GLU:CB	1:N:294:MET:SD	2.48	1.01
4:E:210:ASN:HA	4:E:213:PHE:CB	1.90	1.01
8:I:739:GLN:O	8:I:741:ARG:N	1.92	1.01
5:F:1129:ASN:HD21	5:F:1132:GLU:CB	1.73	1.01
6:G:331:LYS:CE	1:Z:49:LEU:HD11	1.91	1.01
6:G:451:MET:HE3	1:M:14:THR:HG21	1.06	1.01
1:N:811:ARG:N	1:N:836:ASP:CB	2.24	1.01
6:S:431:GLN:CA	7:T:503:ASN:CB	2.38	1.01
1:A:140:ILE:HG21	4:E:1393:LYS:HD3	1.06	1.01
3:D:1019:ARG:CB	1:N:251:ALA:HB2	1.90	1.01
5:F:1116:VAL:CG1	5:F:1150:PHE:CE2	2.42	1.01
5:F:1561:LEU:HD23	5:R:1667:VAL:HG21	1.43	1.01
1:N:810:ALA:HB1	1:N:836:ASP:HA	1.01	1.01
5:R:1116:VAL:CG1	5:R:1150:PHE:CE2	2.42	1.01
6:V:389:ARG:O	6:V:392:SER:OG	1.76	1.01
6:V:404:ASP:O	6:V:408:ALA:HB3	1.59	1.01
1:Z:824:MET:HG2	1:Z:825:PRO:HD2	1.36	1.01
5:R:690:GLU:CD	8:U:722:LEU:CD2	2.28	1.01
1:Z:810:ALA:HB3	1:Z:836:ASP:CA	1.86	1.01
1:Z:811:ARG:N	1:Z:836:ASP:CB	2.24	1.01
3:D:401:ILE:HG21	3:D:462:LEU:HB3	1.43	1.00
5:F:228:PHE:CD1	5:F:360:LEU:O	2.14	1.00
5:F:909:LEU:CB	7:H:404:ARG:HA	1.91	1.00
5:F:1550:LEU:CD2	5:F:1552:PHE:CE2	2.44	1.00
6:G:451:MET:HE1	1:M:14:THR:CG2	1.80	1.00
8:I:798:ASN:O	8:I:801:PHE:N	1.92	1.00
1:M:140:ILE:HG21	4:Q:1393:LYS:CD	1.91	1.00
1:N:49:LEU:HD11	6:S:331:LYS:CE	1.91	1.00
6:V:383:LYS:HZ2	8:X:756:ASN:CA	1.54	1.00
5:F:1167:LYS:HA	5:F:1167:LYS:HE3	1.44	1.00
1:N:753:ALA:HB1	1:N:816:TYR:CA	1.90	1.00
5:R:909:LEU:CB	7:T:404:ARG:HA	1.91	1.00
3:D:938:LEU:HB2	3:D:940:VAL:HG22	1.41	1.00
8:U:798:ASN:O	8:U:801:PHE:N	1.92	1.00
6:V:463:LYS:CE	7:W:526:VAL:HG12	1.92	1.00
5:F:887:PHE:N	5:F:888:PRO:HD2	1.77	1.00
5:F:1550:LEU:HD22	5:F:1552:PHE:CZ	1.97	1.00
6:G:431:GLN:CA	7:H:503:ASN:CB	2.38	1.00
1:N:810:ALA:HB3	1:N:836:ASP:CA	1.86	1.00
3:P:938:LEU:HB2	3:P:940:VAL:HG22	1.41	1.00
7:K:321:ALA:HA	7:K:348:ILE:HG12	1.43	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:211:LYS:NZ	1:Z:246:ASN:CG	1.94	0.99
1:Z:810:ALA:HB1	1:Z:836:ASP:HA	1.01	0.99
5:F:228:PHE:CE1	5:F:360:LEU:O	2.15	0.99
1:N:245:ALA:CB	1:N:250:ASN:CB	2.39	0.99
5:R:228:PHE:CD1	5:R:360:LEU:O	2.15	0.99
5:R:1550:LEU:CD2	5:R:1552:PHE:CE2	2.45	0.99
5:R:1550:LEU:HD21	5:R:1552:PHE:CZ	1.98	0.99
5:F:1529:ALA:HB2	5:F:1611:VAL:CG1	1.92	0.99
5:R:1167:LYS:HA	5:R:1167:LYS:HE3	1.44	0.99
1:A:140:ILE:HG21	4:E:1393:LYS:CD	1.91	0.99
1:N:133:THR:HG22	1:N:134:LYS:N	1.77	0.99
1:N:753:ALA:CA	1:N:816:TYR:HA	1.92	0.99
6:J:365:SER:H	7:K:424:ASN:ND2	1.60	0.99
6:J:380:TYR:CE2	8:L:751:LEU:HD21	1.98	0.99
5:R:228:PHE:CE1	5:R:360:LEU:O	2.15	0.99
1:Z:753:ALA:CA	1:Z:816:TYR:HA	1.92	0.99
5:F:1550:LEU:HD22	5:F:1552:PHE:CE2	1.97	0.99
6:G:289:GLN:HE22	6:J:352:VAL:CG2	1.76	0.99
5:R:1529:ALA:HB2	5:R:1611:VAL:CG1	1.92	0.99
6:V:365:SER:H	7:W:424:ASN:ND2	1.60	0.99
7:H:420:ALA:HB1	8:I:745:TYR:CZ	1.98	0.99
1:Z:133:THR:HG22	1:Z:134:LYS:N	1.77	0.99
4:E:1022:TYR:O	4:E:1026:THR:HG23	1.59	0.98
5:F:1558:ASP:CB	5:R:1680:GLN:O	2.11	0.98
7:W:482:MET:CB	8:X:784:ILE:CA	2.38	0.98
5:F:1550:LEU:HD21	5:F:1552:PHE:CZ	1.98	0.98
1:Z:757:ALA:HB2	1:Z:819:MET:O	1.46	0.98
6:G:331:LYS:CE	1:Z:49:LEU:CD1	2.41	0.98
7:H:418:GLN:HE21	8:I:718:THR:HG23	0.86	0.98
1:N:49:LEU:CD1	6:S:331:LYS:CE	2.41	0.98
7:W:446:ARG:HH22	7:W:455:LYS:CE	1.76	0.98
3:D:1137:ASP:CB	1:N:205:ASN:HB2	1.92	0.98
5:R:1550:LEU:HD22	5:R:1552:PHE:CE2	1.97	0.98
3:P:977:LYS:HE2	1:Z:315:LYS:HA	1.41	0.98
3:P:1021:TYR:CB	1:Z:248:THR:O	2.12	0.98
5:R:887:PHE:N	5:R:888:PRO:HD2	1.77	0.98
1:Z:807:LYS:CA	1:Z:836:ASP:O	2.12	0.98
3:D:1136:ASP:HB2	1:N:203:ASN:ND2	1.79	0.98
7:H:426:GLY:CA	8:I:736:ASN:N	2.27	0.98
6:V:380:TYR:CE2	8:X:751:LEU:HD21	1.98	0.98
1:N:807:LYS:CA	1:N:836:ASP:O	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:951:ARG:HH21	5:R:953:ASN:H	1.08	0.97
5:R:1550:LEU:HD22	5:R:1552:PHE:CZ	1.97	0.97
3:D:1238:ARG:HA	1:Z:830:SER:CB	1.94	0.97
6:G:331:LYS:HE2	1:Z:49:LEU:HD12	1.46	0.97
7:K:538:LYS:CB	8:L:818:ILE:O	2.13	0.97
1:M:128:LEU:CD2	4:Q:1260:TYR:CE2	2.47	0.97
7:T:420:ALA:HB1	8:U:745:TYR:CZ	1.98	0.97
6:J:281:ASP:HA	6:J:284:ILE:HD12	1.46	0.97
6:J:389:ARG:O	6:J:392:SER:OG	1.80	0.97
7:K:446:ARG:HH22	7:K:455:LYS:CE	1.76	0.97
1:M:775:LEU:HB3	1:M:832:LEU:HD11	1.44	0.97
7:T:493:SER:O	8:U:784:ILE:O	1.83	0.97
5:F:968:ILE:HG13	7:H:392:LEU:HD13	1.46	0.97
5:R:1085:LYS:O	5:R:1089:ASN:CB	2.12	0.97
1:A:775:LEU:HB3	1:A:832:LEU:HD11	1.44	0.97
6:J:388:CYS:HA	6:J:391:LEU:HD12	1.44	0.97
6:S:289:GLN:HE22	6:V:352:VAL:CG2	1.76	0.97
7:T:426:GLY:CA	8:U:736:ASN:N	2.27	0.97
3:P:401:ILE:HG21	3:P:462:LEU:HB3	1.43	0.97
1:Z:817:ALA:O	1:Z:821:GLN:CB	2.13	0.97
1:A:32:LEU:HD12	1:N:22:LEU:HD22	1.41	0.97
6:G:455:GLU:CB	1:Z:32:LEU:HD23	1.95	0.96
1:N:830:SER:CB	3:P:1238:ARG:HA	1.94	0.96
7:K:298:SER:HA	7:K:306:THR:HA	1.47	0.96
1:A:128:LEU:CD2	4:E:1260:TYR:CE2	2.47	0.96
5:F:1085:LYS:O	5:F:1089:ASN:CB	2.12	0.96
3:D:242:MET:SD	3:D:298:TYR:HE2	1.78	0.96
5:F:1034:LEU:CD2	5:F:1092:THR:HB	1.95	0.96
5:F:1216:PHE:HE2	5:F:1282:ALA:CB	1.77	0.96
7:H:493:SER:O	8:I:784:ILE:O	1.83	0.96
5:R:1129:ASN:HD21	5:R:1132:GLU:HB3	0.82	0.96
5:R:1216:PHE:HE2	5:R:1282:ALA:CB	1.77	0.96
6:V:380:TYR:HE2	8:X:751:LEU:CD2	1.79	0.96
6:V:383:LYS:CD	8:X:756:ASN:OD1	2.13	0.96
1:Z:253:LEU:HD21	1:Z:498:PHE:HD2	1.30	0.96
1:N:817:ALA:O	1:N:821:GLN:CB	2.13	0.96
6:G:430:LEU:O	7:H:503:ASN:CB	2.13	0.96
6:S:430:LEU:O	7:T:503:ASN:CB	2.13	0.96
5:F:951:ARG:HH21	5:F:953:ASN:H	1.08	0.96
7:W:298:SER:HA	7:W:306:THR:HA	1.46	0.96
7:W:321:ALA:HA	7:W:348:ILE:HG12	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:824:MET:HB2	1:N:825:PRO:HD3	1.47	0.95
3:P:1019:ARG:O	1:Z:250:ASN:N	1.96	0.95
6:V:383:LYS:HZ3	8:X:756:ASN:CG	1.65	0.95
6:V:431:GLN:HA	7:W:500:GLU:N	1.81	0.95
4:E:260:ARG:NH2	4:E:761:PHE:HZ	1.64	0.95
3:P:1020:ASN:CG	1:Z:252:GLN:HG2	1.85	0.95
7:K:526:VAL:O	7:K:530:ASP:HB2	1.66	0.95
6:J:431:GLN:HA	7:K:500:GLU:N	1.81	0.95
3:P:528:PRO:HG3	3:P:624:PHE:CE2	2.02	0.95
1:Z:824:MET:HG2	1:Z:825:PRO:HD3	1.42	0.95
6:J:380:TYR:HE2	8:L:751:LEU:CD2	1.79	0.95
3:P:977:LYS:HE2	1:Z:315:LYS:CA	1.95	0.95
1:N:810:ALA:C	1:N:836:ASP:CB	2.35	0.95
5:R:968:ILE:HG13	7:T:392:LEU:HD13	1.46	0.95
3:D:528:PRO:HG3	3:D:624:PHE:CE2	2.02	0.95
6:J:383:LYS:CD	8:L:756:ASN:OD1	2.13	0.95
1:A:751:LEU:HD22	2:C:1313:LEU:HA	1.49	0.95
1:Z:810:ALA:C	1:Z:836:ASP:CB	2.35	0.95
5:F:1129:ASN:HD21	5:F:1132:GLU:HB3	0.82	0.95
5:F:920:ILE:CG2	5:F:924:ALA:O	2.15	0.94
6:J:325:TYR:HE2	7:K:390:HIS:HA	1.17	0.94
6:V:463:LYS:HE2	7:W:526:VAL:CG1	1.96	0.94
3:P:1020:ASN:HB2	1:Z:251:ALA:HB3	0.96	0.94
5:R:841:PHE:CE2	5:R:918:PHE:HE1	1.85	0.94
5:R:968:ILE:CG1	7:T:392:LEU:HD13	1.97	0.94
3:P:242:MET:SD	3:P:298:TYR:HE2	1.78	0.94
6:V:281:ASP:HA	6:V:284:ILE:HD12	1.46	0.94
3:D:1019:ARG:O	1:N:251:ALA:N	2.01	0.94
7:K:321:ALA:H	7:K:348:ILE:HD11	1.09	0.94
6:V:383:LYS:HD2	8:X:756:ASN:OD1	1.68	0.94
3:D:1137:ASP:CB	1:N:205:ASN:HA	1.97	0.94
4:E:260:ARG:NH2	4:E:761:PHE:CZ	2.35	0.94
6:J:383:LYS:HD2	8:L:756:ASN:OD1	1.68	0.94
1:N:46:ILE:CB	6:S:327:LYS:NZ	2.31	0.94
1:N:59:LYS:CB	8:U:814:LEU:HD21	1.97	0.94
6:V:383:LYS:CE	8:X:756:ASN:OD1	2.16	0.94
1:A:772:PRO:HB3	1:A:828:THR:HG21	0.95	0.94
8:U:818:ILE:C	8:U:821:ILE:HG22	1.87	0.94
5:F:968:ILE:CG1	7:H:392:LEU:HD13	1.97	0.94
6:J:383:LYS:HZ2	8:L:756:ASN:CA	1.55	0.94
5:R:1034:LEU:CD2	5:R:1092:THR:HB	1.95	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:U:818:ILE:O	8:U:821:ILE:HG22	0.76	0.94
8:I:818:ILE:O	8:I:821:ILE:HG22	0.76	0.94
5:R:350:ARG:O	5:R:393:SER:HB3	1.68	0.94
5:R:1550:LEU:HD11	5:R:1604:ILE:HD13	1.48	0.94
6:J:383:LYS:CE	8:L:756:ASN:OD1	2.16	0.94
3:P:1140:LYS:HZ1	1:Z:204:GLU:HA	1.33	0.94
5:F:350:ARG:O	5:F:393:SER:HB3	1.68	0.93
5:F:1068:ILE:HD12	5:F:1150:PHE:CD2	2.04	0.93
5:R:1012:ASN:O	8:U:787:GLU:HG2	1.68	0.93
5:F:354:ARG:CB	5:F:356:ILE:HG22	1.98	0.93
8:I:814:LEU:HD21	1:Z:59:LYS:CB	1.97	0.93
1:N:49:LEU:HD12	6:S:331:LYS:HE2	1.46	0.93
1:N:207:ILE:HD13	1:N:247:GLY:HA3	1.50	0.93
5:R:920:ILE:CG2	5:R:924:ALA:O	2.15	0.93
1:Z:824:MET:HB2	1:Z:825:PRO:HD3	1.47	0.93
6:J:433:LYS:N	7:K:499:GLY:HA3	1.84	0.93
1:N:255:GLU:OE2	1:N:480:GLN:NE2	2.00	0.93
6:V:463:LYS:CE	7:W:526:VAL:CG1	2.46	0.93
3:P:118:THR:HB	3:P:623:GLY:HA2	1.51	0.93
1:Z:753:ALA:HA	1:Z:816:TYR:CB	1.98	0.93
5:F:1550:LEU:HD11	5:F:1604:ILE:HD13	1.48	0.93
3:P:1137:ASP:CB	1:Z:205:ASN:HB2	1.99	0.93
6:V:405:LEU:HD11	7:W:469:ARG:C	1.89	0.93
6:G:327:LYS:NZ	1:Z:46:ILE:CB	2.31	0.93
6:G:455:GLU:HB2	1:Z:32:LEU:HD23	1.51	0.93
1:N:621:HIS:NE2	3:P:1467:SER:HB2	1.84	0.93
3:D:1467:SER:HB2	1:Z:621:HIS:NE2	1.84	0.92
5:F:837:TYR:HB2	5:F:918:PHE:HE2	1.29	0.92
8:I:818:ILE:C	8:I:821:ILE:HG22	1.87	0.92
1:M:140:ILE:CG2	4:Q:1393:LYS:CD	2.47	0.92
5:R:354:ARG:CB	5:R:356:ILE:HG22	1.98	0.92
1:M:751:LEU:HD22	2:O:1313:LEU:HA	1.49	0.92
4:Q:989:ASP:O	4:Q:991:LYS:N	2.03	0.92
1:A:15:SER:HB3	6:S:447:PHE:CD2	2.03	0.92
5:R:1116:VAL:HG11	5:R:1150:PHE:HE2	1.32	0.92
5:R:1167:LYS:HA	5:R:1167:LYS:CE	1.99	0.92
1:A:15:SER:CA	6:S:447:PHE:CE2	2.53	0.92
3:D:515:VAL:HG12	3:D:644:SER:HB3	1.51	0.92
1:N:753:ALA:HA	1:N:816:TYR:CB	1.98	0.92
3:P:515:VAL:HG12	3:P:644:SER:HB3	1.52	0.92
3:P:1140:LYS:NZ	1:Z:204:GLU:CA	2.15	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:388:CYS:O	6:V:388:CYS:SG	2.28	0.92
5:R:711:GLN:OE1	5:R:779:PRO:HA	1.70	0.92
6:V:325:TYR:HE2	7:W:390:HIS:HA	1.18	0.92
4:E:260:ARG:HG2	4:E:260:ARG:HH11	1.31	0.92
6:J:405:LEU:HD11	7:K:469:ARG:C	1.89	0.92
6:V:433:LYS:N	7:W:499:GLY:HA3	1.84	0.92
3:D:483:HIS:HB2	3:D:486:GLN:HG2	1.52	0.92
3:D:1020:ASN:HB2	1:N:251:ALA:HB3	1.51	0.92
1:M:772:PRO:HB3	1:M:828:THR:HG21	0.95	0.92
1:A:140:ILE:CG2	4:E:1393:LYS:CD	2.47	0.92
6:G:451:MET:HE3	1:M:14:THR:CG2	1.86	0.92
6:J:383:LYS:HZ3	8:L:756:ASN:CG	1.67	0.92
6:J:388:CYS:HA	6:J:391:LEU:HB2	1.52	0.92
4:Q:1398:VAL:HG12	4:Q:1398:VAL:O	1.69	0.92
3:D:1140:LYS:HZ1	1:N:204:GLU:HA	1.17	0.91
4:E:1398:VAL:O	4:E:1398:VAL:HG12	1.69	0.91
3:P:971:ILE:HD11	3:P:984:THR:HB	1.52	0.91
6:V:405:LEU:HD12	7:W:470:ALA:CA	2.00	0.91
3:D:971:ILE:HD11	3:D:984:THR:HB	1.52	0.91
5:F:1012:ASN:O	8:I:787:GLU:HG2	1.68	0.91
1:M:59:LYS:CA	8:X:807:LEU:CB	2.48	0.91
5:R:800:ILE:HD11	5:R:885:GLU:OE1	1.69	0.91
7:W:321:ALA:H	7:W:348:ILE:CD1	1.83	0.91
5:F:711:GLN:OE1	5:F:779:PRO:HA	1.69	0.91
5:F:800:ILE:HD11	5:F:885:GLU:OE1	1.69	0.91
7:K:456:THR:O	7:K:458:GLU:N	2.03	0.91
7:K:525:GLU:O	7:K:529:LYS:HB3	1.70	0.91
4:E:687:LYS:CB	5:F:1391:GLY:HA3	2.00	0.91
1:N:362:LYS:O	1:N:365:GLN:HB2	1.71	0.91
1:N:824:MET:CG	1:N:825:PRO:CD	2.43	0.91
1:Z:362:LYS:O	1:Z:365:GLN:HB2	1.71	0.91
1:A:59:LYS:CA	8:L:807:LEU:CB	2.48	0.91
3:P:483:HIS:HB2	3:P:486:GLN:HG2	1.52	0.91
1:A:27:GLU:CB	6:J:467:LEU:CD2	2.49	0.91
3:D:118:THR:HB	3:D:623:GLY:HA2	1.51	0.91
7:K:321:ALA:H	7:K:348:ILE:CD1	1.83	0.91
3:P:1134:SER:CB	1:Z:206:ASN:ND2	2.31	0.91
6:G:295:LYS:HG2	6:J:363:LYS:NZ	1.86	0.91
5:R:1068:ILE:HD12	5:R:1150:PHE:CD2	2.04	0.91
6:V:388:CYS:HB2	7:W:455:LYS:HD2	1.51	0.91
7:W:379:ILE:O	7:W:382:LYS:CB	2.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:810:ALA:C	1:Z:836:ASP:HA	1.91	0.91
4:Q:687:LYS:CB	5:R:1391:GLY:HA3	2.00	0.91
7:W:456:THR:O	7:W:458:GLU:N	2.03	0.91
5:R:1038:LEU:C	5:R:1040:THR:H	1.74	0.90
7:K:379:ILE:O	7:K:382:LYS:CB	2.19	0.90
4:E:989:ASP:O	4:E:991:LYS:N	2.03	0.90
4:E:1029:ASN:ND2	7:K:475:SER:CB	2.35	0.90
7:H:425:ARG:C	7:H:427:LEU:N	2.21	0.90
2:O:1258:GLN:HG2	2:O:1299:LYS:NZ	1.86	0.90
3:D:716:VAL:HG11	3:D:889:GLU:HB2	1.54	0.90
5:F:1038:LEU:C	5:F:1040:THR:H	1.74	0.90
6:V:405:LEU:HD11	7:W:469:ARG:HG2	1.53	0.90
5:F:334:GLN:HG2	5:F:860:ASN:ND2	1.85	0.90
6:J:364:ILE:CA	7:K:424:ASN:ND2	2.35	0.90
6:J:405:LEU:HD12	7:K:470:ALA:CA	2.00	0.90
7:K:484:PHE:O	7:K:492:ASP:CB	2.20	0.90
1:N:810:ALA:C	1:N:836:ASP:HA	1.91	0.90
6:S:292:HIS:ND1	6:V:352:VAL:HG11	1.87	0.90
3:P:1021:TYR:H	1:Z:249:ARG:CA	1.83	0.90
1:A:27:GLU:HB2	6:J:467:LEU:HD21	1.52	0.90
2:C:1258:GLN:HG2	2:C:1299:LYS:NZ	1.86	0.90
6:V:364:ILE:CA	7:W:424:ASN:ND2	2.35	0.90
5:F:1167:LYS:HA	5:F:1167:LYS:CE	1.99	0.90
5:R:922:LEU:CD2	7:T:400:LYS:HE3	2.02	0.90
6:J:342:GLU:OE1	6:J:375:LYS:NZ	2.04	0.90
6:V:342:GLU:OE1	6:V:375:LYS:NZ	2.04	0.90
1:Z:810:ALA:CB	1:Z:836:ASP:O	2.20	0.90
1:A:27:GLU:HB2	6:J:467:LEU:CD2	2.02	0.89
1:N:117:LYS:NZ	1:N:117:LYS:HB3	1.87	0.89
1:N:810:ALA:CB	1:N:836:ASP:O	2.20	0.89
1:N:824:MET:HG2	1:N:825:PRO:HD3	1.43	0.89
3:P:1137:ASP:CB	1:Z:205:ASN:HA	2.02	0.89
5:R:837:TYR:HB2	5:R:918:PHE:HE2	1.29	0.89
5:R:967:THR:O	7:T:392:LEU:HD21	1.72	0.89
5:R:334:GLN:HG2	5:R:860:ASN:ND2	1.85	0.89
1:A:15:SER:HB2	6:S:447:PHE:CE1	2.06	0.89
5:F:922:LEU:CD2	7:H:400:LYS:HE3	2.02	0.89
7:T:425:ARG:C	7:T:427:LEU:N	2.21	0.89
1:Z:117:LYS:NZ	1:Z:117:LYS:HB3	1.87	0.89
3:D:1134:SER:C	1:N:206:ASN:ND2	2.25	0.89
4:Q:1029:ASN:ND2	7:W:475:SER:CB	2.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S:295:LYS:HG2	6:V:363:LYS:NZ	1.86	0.89
7:T:535:LYS:CB	8:U:821:ILE:CD1	2.51	0.89
3:D:499:LEU:HB2	3:D:502:SER:HB3	1.55	0.89
5:F:1116:VAL:HG11	5:F:1150:PHE:HE2	1.32	0.89
7:W:326:LYS:CB	7:W:327:PRO:HD2	2.02	0.89
7:W:484:PHE:O	7:W:492:ASP:CB	2.20	0.89
1:Z:116:LYS:HB3	1:Z:116:LYS:HZ3	1.38	0.89
5:R:914:ASP:HA	5:R:917:PHE:CB	2.03	0.89
5:F:750:TRP:HZ2	5:F:901:PRO:CB	1.86	0.89
5:F:1672:MET:CB	1:Z:149:ALA:HB2	2.03	0.89
5:R:1294:LYS:O	5:R:1295:ALA:O	1.91	0.89
7:W:446:ARG:NH2	7:W:455:LYS:NZ	2.21	0.89
1:Z:817:ALA:O	1:Z:821:GLN:CA	2.20	0.89
6:G:292:HIS:ND1	6:J:352:VAL:HG11	1.87	0.89
1:N:817:ALA:O	1:N:821:GLN:CA	2.20	0.89
3:P:1140:LYS:HD2	1:Z:204:GLU:O	1.72	0.89
5:R:750:TRP:HZ2	5:R:901:PRO:CB	1.86	0.89
6:V:433:LYS:CB	7:W:499:GLY:HA2	2.03	0.89
6:V:459:VAL:O	6:V:463:LYS:HB2	1.73	0.89
5:F:967:THR:O	7:H:392:LEU:HD21	1.72	0.89
7:K:446:ARG:NH1	7:K:446:ARG:O	2.06	0.89
1:N:149:ALA:HB2	5:R:1672:MET:CB	2.03	0.89
7:W:446:ARG:NH1	7:W:446:ARG:O	2.06	0.89
5:F:657:ILE:O	5:F:712:LEU:HD12	1.74	0.88
3:P:499:LEU:HB2	3:P:502:SER:HB3	1.55	0.88
5:R:968:ILE:HG13	7:T:392:LEU:CD1	2.03	0.88
5:F:334:GLN:HE21	5:F:859:LYS:HZ2	0.96	0.88
1:N:27:GLU:OE2	1:N:30:ASP:CB	2.21	0.88
7:W:321:ALA:H	7:W:348:ILE:HD11	1.09	0.88
1:M:57:ARG:HH11	1:M:57:ARG:HG2	1.38	0.88
6:J:459:VAL:O	6:J:463:LYS:HB2	1.73	0.88
1:Z:127:GLN:HA	1:Z:127:GLN:HE21	1.38	0.88
5:F:1561:LEU:CD2	5:R:1667:VAL:CG2	2.50	0.88
7:K:326:LYS:CB	7:K:327:PRO:HD2	2.02	0.88
3:D:1140:LYS:HD2	1:N:204:GLU:O	1.73	0.88
5:F:968:ILE:HG13	7:H:392:LEU:CD1	2.03	0.88
7:H:426:GLY:HA2	8:I:736:ASN:H	1.37	0.88
1:N:255:GLU:HB2	1:N:480:GLN:HE21	1.36	0.88
3:P:716:VAL:HG11	3:P:889:GLU:HB2	1.53	0.88
1:Z:810:ALA:HB3	1:Z:836:ASP:HA	1.46	0.88
1:A:27:GLU:CB	6:J:467:LEU:HD21	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:753:ALA:CB	1:N:816:TYR:CA	2.50	0.88
5:F:1084:LEU:HA	5:F:1156:TYR:CZ	2.09	0.88
6:J:405:LEU:HD11	7:K:469:ARG:HG2	1.53	0.88
7:K:446:ARG:NH2	7:K:455:LYS:NZ	2.21	0.88
5:R:1680:GLN:O	5:R:1680:GLN:NE2	2.07	0.88
5:F:887:PHE:H	5:F:888:PRO:HD2	1.37	0.88
7:H:535:LYS:CB	8:I:821:ILE:CD1	2.51	0.88
5:R:657:ILE:O	5:R:712:LEU:HD12	1.73	0.88
7:W:533:ILE:HA	7:W:536:LYS:HD2	1.56	0.88
1:Z:753:ALA:CB	1:Z:816:TYR:CA	2.50	0.88
5:F:914:ASP:HA	5:F:917:PHE:CB	2.03	0.88
5:F:935:GLN:O	5:F:938:ALA:N	2.07	0.88
5:F:1294:LYS:O	5:F:1295:ALA:O	1.90	0.88
6:J:433:LYS:CB	7:K:499:GLY:HA2	2.03	0.88
1:N:252:GLN:NE2	1:N:498:PHE:CE2	2.41	0.88
2:O:1258:GLN:HG2	2:O:1299:LYS:HZ1	1.38	0.87
1:N:746:PRO:O	1:N:812:GLN:O	1.92	0.87
7:W:404:ARG:NE	7:W:404:ARG:HA	1.88	0.87
6:V:323:SER:HA	6:V:326:LEU:HD12	1.56	0.87
6:V:387:TYR:HA	8:X:762:LEU:HD22	1.55	0.87
1:M:751:LEU:CD2	2:O:1313:LEU:HD23	2.04	0.87
6:J:429:LEU:CB	6:J:434:THR:OG1	2.23	0.87
1:Z:16:LYS:O	1:Z:16:LYS:NZ	2.07	0.87
3:D:944:LEU:HD12	3:D:947:LEU:HD12	1.57	0.87
4:Q:504:ASP:HA	4:Q:522:ILE:O	1.73	0.87
3:D:910:LEU:HD23	3:D:913:LEU:HD12	1.57	0.87
1:N:127:GLN:HA	1:N:127:GLN:HE21	1.38	0.87
5:R:968:ILE:HG23	7:T:392:LEU:HD11	1.56	0.86
6:S:430:LEU:CB	8:U:780:THR:CA	2.53	0.86
4:E:504:ASP:HA	4:E:522:ILE:O	1.73	0.86
5:R:1084:LEU:HA	5:R:1156:TYR:CZ	2.09	0.86
1:Z:824:MET:CG	1:Z:825:PRO:CD	2.43	0.86
1:A:751:LEU:CD2	2:C:1313:LEU:HD23	2.04	0.86
3:D:830:SER:HB3	3:D:934:SER:HB3	1.58	0.86
5:F:1251:ARG:HH22	5:F:1276:ASP:HB2	1.38	0.86
1:N:811:ARG:CA	1:N:836:ASP:CB	2.53	0.86
6:V:398:VAL:CG2	7:W:466:LEU:HD11	2.04	0.86
5:R:734:LEU:HD21	5:R:817:ASN:OD1	1.74	0.86
1:Z:746:PRO:O	1:Z:812:GLN:O	1.92	0.86
1:Z:811:ARG:CA	1:Z:836:ASP:CB	2.53	0.86
5:F:354:ARG:HB2	5:F:356:ILE:CG2	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:28:SER:CB	1:Z:23:ASN:CA	2.53	0.86
4:Q:182:PHE:CE2	5:R:1189:MET:CB	2.59	0.86
5:R:1251:ARG:HH22	5:R:1276:ASP:HB2	1.39	0.86
3:P:430:GLU:CD	3:P:528:PRO:HD3	1.96	0.86
3:P:944:LEU:HD12	3:P:947:LEU:HD12	1.57	0.86
4:E:182:PHE:CE2	5:F:1189:MET:CB	2.59	0.86
5:R:1216:PHE:CE2	5:R:1282:ALA:CB	2.59	0.86
7:T:426:GLY:HA2	8:U:736:ASN:H	1.38	0.86
5:F:968:ILE:HG23	7:H:392:LEU:HD11	1.56	0.86
7:K:315:LYS:HA	7:K:347:THR:HA	1.58	0.86
1:N:807:LYS:CB	1:N:837:VAL:O	2.24	0.86
6:J:405:LEU:CD1	7:K:470:ALA:HA	2.06	0.86
1:N:49:LEU:O	1:N:49:LEU:HD22	1.76	0.86
3:P:175:ILE:HD11	3:P:642:LEU:HB2	1.55	0.86
5:R:935:GLN:O	5:R:938:ALA:N	2.07	0.86
7:W:315:LYS:HA	7:W:347:THR:HA	1.58	0.86
3:D:175:ILE:HD11	3:D:642:LEU:HB2	1.56	0.86
5:F:389:LEU:H	5:F:389:LEU:HD12	1.41	0.86
5:F:734:LEU:HD21	5:F:817:ASN:OD1	1.74	0.86
6:J:324:GLN:HA	6:J:327:LYS:HE2	1.56	0.85
7:K:455:LYS:HD3	7:K:455:LYS:N	1.91	0.85
5:R:354:ARG:HB2	5:R:356:ILE:CG2	2.04	0.85
6:V:398:VAL:CG2	7:W:466:LEU:HD12	2.04	0.85
6:V:429:LEU:CB	6:V:434:THR:OG1	2.23	0.85
1:A:783:SER:CA	1:A:839:LEU:HA	2.06	0.85
1:A:57:ARG:HG2	1:A:57:ARG:HH11	1.38	0.85
6:G:327:LYS:HZ3	1:Z:46:ILE:CB	1.87	0.85
5:R:334:GLN:NE2	5:R:859:LYS:HZ3	1.67	0.85
5:R:401:THR:CB	5:R:411:ASN:CB	2.53	0.85
5:F:401:THR:CB	5:F:411:ASN:CB	2.53	0.85
8:I:822:LYS:HZ2	8:I:822:LYS:HA	1.42	0.85
3:P:528:PRO:HG3	3:P:624:PHE:CD2	2.11	0.85
1:Z:807:LYS:CB	1:Z:837:VAL:O	2.24	0.85
6:V:432:LEU:CB	8:X:782:ILE:CA	2.55	0.85
3:D:768:PRO:HA	3:D:771:TYR:HB2	1.57	0.85
3:D:1137:ASP:CB	1:N:205:ASN:CA	2.55	0.85
7:W:455:LYS:HD3	7:W:455:LYS:N	1.91	0.85
5:F:1167:LYS:O	5:F:1167:LYS:HD3	1.77	0.85
6:G:430:LEU:CB	8:I:780:THR:CA	2.53	0.85
3:D:430:GLU:CD	3:D:528:PRO:HD3	1.96	0.85
5:R:1167:LYS:O	5:R:1167:LYS:HD3	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:405:LEU:CD1	7:W:470:ALA:HA	2.06	0.85
6:V:405:LEU:CD1	7:W:470:ALA:N	2.40	0.85
7:K:404:ARG:HA	7:K:404:ARG:NE	1.88	0.85
5:R:887:PHE:H	5:R:888:PRO:HD2	1.37	0.85
6:V:324:GLN:HA	6:V:327:LYS:HE2	1.56	0.85
3:D:537:LYS:HE2	3:D:572:LEU:HD23	1.57	0.85
5:F:1216:PHE:CE2	5:F:1282:ALA:CB	2.59	0.85
3:P:1136:ASP:HB2	1:Z:203:ASN:HD22	1.38	0.85
1:Z:49:LEU:O	1:Z:49:LEU:HD22	1.76	0.85
6:J:388:CYS:SG	7:K:453:LEU:HA	2.16	0.84
1:M:50:ARG:HA	1:M:53:VAL:HG12	1.58	0.84
1:M:783:SER:CA	1:M:839:LEU:HA	2.06	0.84
3:P:910:LEU:HD23	3:P:913:LEU:HD12	1.57	0.84
3:D:977:LYS:HD3	1:N:316:ALA:H	1.42	0.84
6:J:323:SER:HA	6:J:326:LEU:HD12	1.56	0.84
6:J:371:LYS:O	6:J:371:LYS:NZ	2.10	0.84
1:Z:811:ARG:HA	1:Z:836:ASP:CB	2.07	0.84
1:A:50:ARG:HA	1:A:53:VAL:HG12	1.58	0.84
1:N:207:ILE:HD12	1:N:247:GLY:HA3	1.58	0.84
3:P:537:LYS:HE2	3:P:572:LEU:HD23	1.57	0.84
6:V:365:SER:N	7:W:424:ASN:ND2	2.25	0.84
6:J:432:LEU:CB	8:L:782:ILE:CA	2.55	0.84
3:D:528:PRO:HG3	3:D:624:PHE:CD2	2.11	0.84
1:N:811:ARG:HA	1:N:836:ASP:CB	2.07	0.84
3:P:830:SER:HB3	3:P:934:SER:HB3	1.58	0.84
5:F:1037:ASN:H	5:F:1040:THR:CB	1.91	0.84
6:G:295:LYS:CG	6:J:363:LYS:NZ	2.41	0.84
6:J:365:SER:N	7:K:424:ASN:ND2	2.25	0.84
1:N:252:GLN:NE2	1:N:498:PHE:HE2	1.74	0.84
5:R:914:ASP:HA	5:R:917:PHE:HB3	1.58	0.84
4:E:687:LYS:CB	5:F:1391:GLY:CA	2.56	0.84
6:J:405:LEU:CD1	7:K:470:ALA:N	2.40	0.84
8:U:822:LYS:HZ1	8:U:822:LYS:HA	1.39	0.84
1:A:772:PRO:CB	1:A:828:THR:CG2	2.39	0.84
1:A:787:HIS:CE1	1:A:838:SER:O	2.31	0.84
4:Q:1163:LEU:O	4:Q:1167:LEU:HB2	1.78	0.84
6:S:295:LYS:CG	6:V:363:LYS:NZ	2.40	0.84
3:P:768:PRO:HA	3:P:771:TYR:HB2	1.57	0.83
6:S:295:LYS:HG2	6:V:363:LYS:HZ1	1.41	0.83
4:E:1163:LEU:O	4:E:1167:LEU:HB2	1.78	0.83
5:F:1134:LYS:C	5:F:1136:LYS:H	1.81	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:690:GLU:CG	8:U:722:LEU:HD21	2.08	0.83
1:Z:747:PHE:HA	1:Z:812:GLN:CB	2.08	0.83
3:P:734:LEU:HB3	3:P:739:THR:HG21	1.61	0.83
6:V:390:ILE:CG2	6:V:394:ILE:CG2	2.56	0.83
4:Q:687:LYS:CB	5:R:1391:GLY:CA	2.56	0.83
1:Z:756:LYS:CB	1:Z:816:TYR:CB	2.56	0.83
1:M:128:LEU:CD1	4:Q:1260:TYR:CZ	2.60	0.83
1:N:747:PHE:HA	1:N:812:GLN:CB	2.09	0.83
1:N:756:LYS:CB	1:N:816:TYR:CB	2.57	0.83
1:N:758:GLN:HE21	3:P:1377:ASN:ND2	1.76	0.83
1:Z:242:LEU:HG	1:Z:254:LEU:CD2	2.09	0.83
1:Z:252:GLN:CD	1:Z:498:PHE:HE2	1.81	0.83
1:M:787:HIS:CE1	1:M:838:SER:O	2.31	0.83
1:N:810:ALA:CB	1:N:836:ASP:C	2.37	0.83
6:J:405:LEU:CD1	7:K:469:ARG:HG2	2.08	0.83
5:R:389:LEU:H	5:R:389:LEU:HD12	1.41	0.83
5:R:1037:ASN:H	5:R:1040:THR:CB	1.91	0.83
5:F:334:GLN:HE22	5:F:859:LYS:HZ3	1.27	0.82
5:F:929:TYR:O	5:F:932:VAL:HG13	1.79	0.82
5:F:1561:LEU:HD23	5:R:1667:VAL:CG2	2.09	0.82
6:V:398:VAL:HG23	7:W:466:LEU:HD13	1.61	0.82
1:Z:46:ILE:HD12	1:Z:46:ILE:O	1.78	0.82
1:Z:753:ALA:CB	1:Z:816:TYR:HA	2.09	0.82
3:D:977:LYS:CD	1:N:316:ALA:H	1.92	0.82
6:J:405:LEU:CD1	7:K:470:ALA:CA	2.57	0.82
5:R:1134:LYS:C	5:R:1136:LYS:H	1.81	0.82
3:D:1136:ASP:HB2	1:N:203:ASN:HD22	1.44	0.82
1:N:782:ILE:CB	1:N:839:LEU:C	2.48	0.82
4:Q:923:LEU:HD11	4:Q:931:PHE:HE2	1.45	0.82
6:V:371:LYS:O	6:V:371:LYS:NZ	2.10	0.82
1:Z:753:ALA:CA	1:Z:816:TYR:CA	2.57	0.82
1:A:15:SER:HA	6:S:447:PHE:HE2	1.45	0.82
5:F:227:ASP:HA	5:F:379:SER:CB	2.10	0.82
5:F:914:ASP:HA	5:F:917:PHE:HB3	1.59	0.82
1:M:772:PRO:HB3	1:M:828:THR:CB	2.09	0.82
5:R:227:ASP:HA	5:R:379:SER:CB	2.10	0.82
6:V:405:LEU:CD1	7:W:469:ARG:HG2	2.08	0.82
7:W:400:LYS:HD2	7:W:400:LYS:O	1.80	0.82
4:E:923:LEU:HD11	4:E:931:PHE:HE2	1.44	0.82
5:F:690:GLU:CG	8:I:722:LEU:HD21	2.08	0.82
5:F:1116:VAL:CG1	5:F:1150:PHE:HE2	1.87	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:333:ILE:O	6:J:336:PHE:CA	2.28	0.82
1:N:753:ALA:HB1	1:N:816:TYR:HA	1.61	0.82
1:A:128:LEU:CD1	4:E:1260:TYR:CZ	2.60	0.82
3:D:977:LYS:CE	1:N:315:LYS:HA	2.07	0.82
1:Z:253:LEU:HD21	1:Z:498:PHE:CD2	2.14	0.82
3:D:1457:LYS:O	1:Z:651:ASP:CB	2.27	0.82
5:F:922:LEU:CD2	7:H:400:LYS:CE	2.58	0.82
1:N:46:ILE:HD12	1:N:46:ILE:O	1.78	0.82
1:N:753:ALA:CB	1:N:816:TYR:HA	2.09	0.82
6:V:405:LEU:CD1	7:W:470:ALA:CA	2.57	0.82
1:Z:753:ALA:HA	1:Z:816:TYR:CA	2.10	0.82
1:Z:782:ILE:CB	1:Z:839:LEU:C	2.48	0.82
5:F:1109:ILE:HD11	5:F:1160:TYR:OH	1.80	0.82
1:N:651:ASP:CB	3:P:1457:LYS:O	2.28	0.82
5:R:1251:ARG:HH22	5:R:1276:ASP:CB	1.92	0.82
5:F:1251:ARG:HH22	5:F:1276:ASP:CB	1.92	0.81
5:R:922:LEU:HD23	7:T:400:LYS:HE3	1.58	0.81
5:R:929:TYR:O	5:R:932:VAL:HG13	1.79	0.81
1:A:775:LEU:CB	1:A:832:LEU:CD1	2.57	0.81
2:C:1258:GLN:HG2	2:C:1299:LYS:HZ1	1.41	0.81
3:D:1377:ASN:ND2	1:Z:758:GLN:HE21	1.76	0.81
1:M:27:GLU:CB	1:Z:26:LEU:HD23	2.09	0.81
3:P:368:ILE:HB	3:P:380:TYR:HB2	1.63	0.81
5:R:1106:PHE:CD2	5:R:1164:PHE:CE2	2.69	0.81
5:R:1357:ALA:HB2	5:R:1381:LEU:CA	2.10	0.81
1:Z:753:ALA:HB1	1:Z:816:TYR:HA	1.61	0.81
1:A:46:ILE:HA	8:L:792:GLN:H	1.45	0.81
3:D:734:LEU:HB3	3:D:739:THR:HG21	1.60	0.81
6:G:470:LEU:HB2	7:H:538:LYS:HZ3	1.45	0.81
1:N:59:LYS:CB	8:U:814:LEU:CD2	2.58	0.81
1:N:255:GLU:CB	1:N:480:GLN:HE21	1.93	0.81
5:R:1068:ILE:CD1	5:R:1150:PHE:CD2	2.63	0.81
1:N:753:ALA:HA	1:N:816:TYR:CA	2.10	0.81
1:N:774:LEU:HA	1:N:777:ILE:HG22	1.63	0.81
5:R:1116:VAL:CG1	5:R:1150:PHE:HE2	1.87	0.81
5:F:334:GLN:NE2	5:F:859:LYS:HZ2	1.50	0.81
1:M:140:ILE:HG22	4:Q:1393:LYS:HZ2	1.42	0.81
6:S:430:LEU:CB	8:U:780:THR:CG2	2.58	0.81
6:V:325:TYR:CD2	7:W:390:HIS:HA	2.15	0.81
7:W:314:ASN:HB2	7:W:361:ARG:HH12	1.46	0.81
3:D:1140:LYS:HZ2	1:N:204:GLU:CB	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:430:LEU:CB	8:I:780:THR:CG2	2.58	0.81
7:K:337:GLN:O	7:K:341:LYS:HE2	1.79	0.81
7:K:400:LYS:HD2	7:K:400:LYS:O	1.80	0.81
5:F:1068:ILE:CD1	5:F:1150:PHE:CD2	2.63	0.81
1:N:753:ALA:CA	1:N:816:TYR:CA	2.57	0.81
1:Z:810:ALA:CB	1:Z:836:ASP:C	2.37	0.81
1:A:15:SER:HA	6:S:447:PHE:CE2	2.14	0.81
7:K:446:ARG:NH2	7:K:455:LYS:HZ1	1.78	0.81
1:M:775:LEU:CB	1:M:832:LEU:CD1	2.57	0.81
7:W:508:LYS:NZ	1:Z:15:SER:OG	2.14	0.81
1:M:46:ILE:HA	8:X:792:GLN:H	1.45	0.80
1:Z:774:LEU:HA	1:Z:777:ILE:HG22	1.63	0.80
1:A:772:PRO:HB3	1:A:828:THR:CB	2.09	0.80
3:D:160:ILE:HG23	3:D:191:ILE:HG21	1.64	0.80
6:V:333:ILE:O	6:V:336:PHE:CA	2.28	0.80
1:N:88:LYS:NZ	8:U:805:ARG:CB	2.45	0.80
1:N:804:ASP:O	1:N:808:ASN:HB3	1.82	0.80
5:R:935:GLN:O	5:R:937:LEU:N	2.15	0.80
7:T:412:ILE:CG2	7:T:415:LEU:HD23	2.11	0.80
7:W:337:GLN:O	7:W:341:LYS:HE2	1.79	0.80
6:V:386:ASP:HA	6:V:389:ARG:HB2	1.63	0.80
3:D:368:ILE:HB	3:D:380:TYR:HB2	1.63	0.80
8:I:805:ARG:CB	1:Z:88:LYS:NZ	2.45	0.80
8:X:643:LYS:HG3	8:X:647:GLN:HE22	1.47	0.80
5:F:1106:PHE:CD2	5:F:1164:PHE:CE2	2.69	0.80
5:F:1216:PHE:HE2	5:F:1282:ALA:HB2	1.47	0.80
7:H:412:ILE:CG2	7:H:415:LEU:HD23	2.12	0.80
6:J:333:ILE:C	6:J:336:PHE:CB	2.50	0.80
8:L:643:LYS:HG3	8:L:647:GLN:HE22	1.47	0.80
5:R:1109:ILE:HD11	5:R:1160:TYR:OH	1.80	0.80
8:I:822:LYS:HA	8:I:822:LYS:CE	2.12	0.80
6:J:369:LEU:HD13	7:K:419:LEU:HD22	1.62	0.80
1:N:824:MET:CB	1:N:825:PRO:CD	2.60	0.80
3:P:160:ILE:HG23	3:P:191:ILE:HG21	1.64	0.80
8:U:822:LYS:HA	8:U:822:LYS:CE	2.12	0.80
6:V:333:ILE:C	6:V:336:PHE:CB	2.50	0.80
6:V:369:LEU:HD13	7:W:419:LEU:HD22	1.62	0.80
5:F:1357:ALA:HB2	5:F:1381:LEU:CA	2.10	0.80
1:N:762:ASN:CA	3:P:1376:LYS:CB	2.60	0.80
7:W:310:ALA:HB3	7:W:352:ILE:HB	1.64	0.80
6:J:384:LEU:HD23	6:J:384:LEU:O	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:390:ILE:HB	8:X:762:LEU:HD11	1.62	0.79
2:C:1388:HIS:O	4:E:1331:LEU:CD1	2.31	0.79
8:I:814:LEU:CD2	1:Z:59:LYS:CB	2.59	0.79
6:J:305:ILE:HD11	8:L:668:VAL:HG12	1.61	0.79
7:K:314:ASN:HB2	7:K:361:ARG:HH12	1.46	0.79
7:K:337:GLN:O	7:K:341:LYS:CE	2.30	0.79
7:K:385:GLN:HA	7:K:385:GLN:HE21	1.47	0.79
6:V:305:ILE:HD11	8:X:668:VAL:HG12	1.61	0.79
1:Z:804:ASP:O	1:Z:808:ASN:HB3	1.81	0.79
4:E:988:ILE:O	4:E:990:LYS:N	2.16	0.79
5:R:1134:LYS:O	5:R:1136:LYS:N	2.16	0.79
5:R:1436:LYS:O	5:R:1440:ILE:HB	1.83	0.79
6:V:384:LEU:O	6:V:384:LEU:HD23	1.82	0.79
7:W:337:GLN:O	7:W:341:LYS:CE	2.30	0.79
1:Z:779:LEU:CB	1:Z:835:ILE:CB	2.60	0.79
3:P:1021:TYR:H	1:Z:249:ARG:CB	1.94	0.79
5:F:734:LEU:HD22	5:F:817:ASN:OD1	1.81	0.79
1:N:779:LEU:CB	1:N:835:ILE:CB	2.60	0.79
4:Q:988:ILE:O	4:Q:990:LYS:N	2.16	0.79
5:R:1068:ILE:CD1	5:R:1150:PHE:HD2	1.95	0.79
1:N:84:ASP:CG	6:S:449:LEU:HD23	2.03	0.79
3:P:977:LYS:CE	1:Z:316:ALA:H	1.95	0.79
6:V:390:ILE:HG22	6:V:394:ILE:CG2	2.13	0.79
5:F:935:GLN:O	5:F:937:LEU:N	2.14	0.79
7:H:423:LYS:O	8:I:735:ASN:CB	2.31	0.79
2:O:1388:HIS:O	4:Q:1331:LEU:CD1	2.31	0.79
3:D:1376:LYS:CB	1:Z:762:ASN:CA	2.60	0.79
6:J:353:LEU:HG	7:K:419:LEU:HD11	1.64	0.79
7:T:423:LYS:O	8:U:735:ASN:CB	2.31	0.79
7:T:532:ALA:HB2	8:U:818:ILE:CD1	2.12	0.79
1:Z:133:THR:CG2	1:Z:134:LYS:N	2.45	0.79
6:J:325:TYR:CD2	7:K:390:HIS:HA	2.15	0.79
6:J:388:CYS:CA	6:J:391:LEU:HB2	2.13	0.79
1:N:762:ASN:HA	3:P:1376:LYS:CB	2.13	0.79
4:Q:1022:TYR:CE2	4:Q:1026:THR:HG22	2.18	0.79
3:D:1376:LYS:CB	1:Z:762:ASN:HA	2.13	0.78
1:M:783:SER:HA	1:M:839:LEU:CA	2.12	0.78
4:Q:182:PHE:HE2	5:R:1189:MET:CB	1.96	0.78
5:R:1435:LYS:NZ	5:R:1484:ARG:NH2	2.31	0.78
6:V:333:ILE:HA	6:V:336:PHE:CB	2.14	0.78
7:W:513:LEU:HD23	7:W:513:LEU:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:116:LYS:HB3	1:Z:116:LYS:NZ	1.95	0.78
1:Z:211:LYS:HZ2	1:Z:246:ASN:CG	1.70	0.78
1:Z:824:MET:CB	1:Z:825:PRO:CD	2.60	0.78
3:D:515:VAL:HB	3:D:604:PRO:HG3	1.66	0.78
5:F:1068:ILE:CD1	5:F:1150:PHE:HD2	1.95	0.78
7:H:532:ALA:HB2	8:I:818:ILE:CD1	2.12	0.78
7:K:310:ALA:HB3	7:K:352:ILE:HB	1.64	0.78
3:P:395:PRO:HB3	3:P:418:LEU:HD23	1.65	0.78
3:P:515:VAL:HB	3:P:604:PRO:HG3	1.66	0.78
1:N:133:THR:CG2	1:N:134:LYS:N	2.46	0.78
3:P:263:VAL:HB	3:P:311:LYS:HE3	1.66	0.78
5:R:922:LEU:CD2	7:T:400:LYS:CE	2.58	0.78
5:R:1606:GLN:O	5:R:1610:ALA:HB2	1.83	0.78
6:S:470:LEU:HB2	7:T:538:LYS:HZ3	1.47	0.78
8:U:737:ASN:OD1	8:U:738:ASP:OD1	2.01	0.78
8:U:822:LYS:HA	8:U:822:LYS:NZ	1.99	0.78
6:V:398:VAL:HG23	7:W:466:LEU:HD12	1.62	0.78
1:A:775:LEU:CB	1:A:832:LEU:HD11	2.13	0.78
5:F:1035:GLY:O	5:F:1042:ILE:CB	2.32	0.78
4:E:182:PHE:HE2	5:F:1189:MET:CB	1.96	0.78
5:F:1436:LYS:O	5:F:1440:ILE:HB	1.83	0.78
5:F:1606:GLN:O	5:F:1610:ALA:HB2	1.82	0.78
3:P:1020:ASN:ND2	1:Z:252:GLN:HB3	1.98	0.78
6:V:353:LEU:HG	7:W:419:LEU:HD11	1.64	0.78
7:W:358:LEU:HD22	8:X:662:ILE:HD13	1.64	0.78
4:E:973:THR:OG1	4:E:974:GLY:N	2.14	0.78
5:F:928:LEU:H	5:F:928:LEU:CD1	1.92	0.78
6:G:449:LEU:HD23	1:Z:84:ASP:CG	2.03	0.78
1:A:140:ILE:HG22	4:E:1393:LYS:HZ3	1.47	0.78
1:N:207:ILE:CD1	1:N:247:GLY:CA	2.54	0.78
1:Z:663:ASP:O	1:Z:667:ALA:HB3	1.84	0.78
1:A:53:VAL:CG2	8:L:799:SER:OG	2.30	0.78
5:R:1035:GLY:O	5:R:1042:ILE:CB	2.32	0.78
1:A:779:LEU:CB	1:A:835:ILE:CB	2.61	0.78
3:D:1238:ARG:CA	1:Z:830:SER:HB3	2.13	0.78
4:E:1022:TYR:CE2	4:E:1026:THR:HG22	2.18	0.78
5:F:1633:TYR:CZ	5:F:1635:ARG:HB2	2.19	0.78
1:M:53:VAL:CG2	8:X:799:SER:OG	2.30	0.78
1:M:779:LEU:CB	1:M:835:ILE:CB	2.61	0.78
3:D:1137:ASP:CB	1:N:205:ASN:HB3	2.13	0.77
1:N:663:ASP:O	1:N:667:ALA:HB3	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:446:ARG:NH2	7:W:455:LYS:HZ1	1.80	0.77
1:Z:810:ALA:HB1	1:Z:835:ILE:O	1.84	0.77
2:C:1258:GLN:CG	2:C:1299:LYS:CE	2.62	0.77
3:D:445:ARG:HB2	3:D:466:LYS:HB2	1.67	0.77
6:G:327:LYS:HZ2	1:Z:46:ILE:HA	1.50	0.77
1:N:621:HIS:CE1	3:P:1468:TYR:H	2.02	0.77
6:V:387:TYR:CB	8:X:759:SER:OG	2.33	0.77
1:Z:242:LEU:O	1:Z:254:LEU:HD21	1.84	0.77
1:A:253:LEU:HD22	1:A:502:ASP:HB3	1.66	0.77
3:D:744:SER:HA	3:D:758:ASP:HB2	1.67	0.77
5:F:1435:LYS:NZ	5:F:1484:ARG:NH2	2.32	0.77
6:J:319:GLU:HA	6:J:322:THR:HG22	1.66	0.77
7:K:446:ARG:HH22	7:K:455:LYS:HZ1	1.29	0.77
7:W:359:ASN:HA	7:W:362:ASN:HD22	1.49	0.77
7:W:483:VAL:CB	7:W:493:SER:C	2.53	0.77
1:Z:91:GLN:O	1:Z:93:ASN:N	2.18	0.77
6:J:333:ILE:HA	6:J:336:PHE:CB	2.13	0.77
7:K:358:LEU:HD22	8:L:662:ILE:HD13	1.64	0.77
3:P:1020:ASN:HD21	1:Z:252:GLN:HB3	1.49	0.77
5:R:734:LEU:HD22	5:R:817:ASN:OD1	1.82	0.77
5:R:1357:ALA:CA	5:R:1381:LEU:CB	2.63	0.77
3:D:263:VAL:HB	3:D:311:LYS:HE3	1.66	0.77
6:J:390:ILE:HG21	8:L:762:LEU:HD11	1.64	0.77
1:N:91:GLN:O	1:N:93:ASN:N	2.18	0.77
7:T:412:ILE:HA	7:T:415:LEU:HB2	1.67	0.77
1:Z:768:VAL:HA	1:Z:771:ILE:HD12	1.66	0.77
8:I:737:ASN:OD1	8:I:738:ASP:OD1	2.01	0.77
6:J:388:CYS:HA	6:J:391:LEU:CD1	2.14	0.77
3:P:1137:ASP:CB	1:Z:205:ASN:CA	2.62	0.77
5:R:1633:TYR:CZ	5:R:1635:ARG:HB2	2.19	0.77
7:W:509:ILE:HG22	1:Z:12:SER:HG	1.49	0.77
3:D:395:PRO:HB3	3:D:418:LEU:HD23	1.65	0.77
3:D:1468:TYR:H	1:Z:621:HIS:CE1	2.02	0.77
5:F:1139:ILE:HG12	5:F:1291:SER:OG	1.84	0.77
6:G:295:LYS:HG2	6:J:363:LYS:HZ1	1.48	0.77
5:R:968:ILE:HG23	7:T:392:LEU:CD1	2.14	0.77
5:F:968:ILE:HG23	7:H:392:LEU:CD1	2.14	0.77
4:Q:973:THR:OG1	4:Q:974:GLY:N	2.14	0.77
7:T:412:ILE:HG23	7:T:415:LEU:HD23	1.67	0.77
1:M:775:LEU:CB	1:M:832:LEU:HD11	2.13	0.77
2:O:1258:GLN:CG	2:O:1299:LYS:CE	2.62	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:445:ARG:HB2	3:P:466:LYS:HB2	1.67	0.77
5:F:1038:LEU:O	5:F:1040:THR:N	2.18	0.76
1:M:253:LEU:HD22	1:M:502:ASP:HB3	1.67	0.76
1:N:810:ALA:HB1	1:N:835:ILE:O	1.84	0.76
1:N:810:ALA:HB2	1:N:839:LEU:CA	2.15	0.76
1:Z:810:ALA:HB2	1:Z:839:LEU:CA	2.15	0.76
1:A:140:ILE:HG22	4:E:1393:LYS:HZ2	1.50	0.76
4:E:1359:ILE:HG21	1:Z:453:VAL:HG11	1.68	0.76
1:N:146:LEU:HD12	1:N:146:LEU:O	1.85	0.76
1:N:810:ALA:C	1:N:836:ASP:CA	2.54	0.76
5:R:506:ASN:O	5:R:510:PHE:HB2	1.85	0.76
5:R:1216:PHE:HE2	5:R:1282:ALA:HB1	1.48	0.76
1:M:772:PRO:CB	1:M:828:THR:CG2	2.39	0.76
5:R:159:LYS:HE3	5:R:363:ASP:CA	2.16	0.76
5:R:1034:LEU:O	5:R:1095:LEU:HD11	1.85	0.76
5:R:1216:PHE:HE2	5:R:1282:ALA:HB2	1.47	0.76
4:Q:984:ASP:OD1	4:Q:984:ASP:N	2.17	0.76
5:R:1274:ASP:HA	5:R:1277:VAL:HB	1.67	0.76
6:V:383:LYS:HZ3	8:X:756:ASN:CB	1.94	0.76
6:V:404:ASP:O	6:V:408:ALA:HB2	1.85	0.76
1:A:128:LEU:HD13	4:E:1260:TYR:CE2	2.21	0.76
3:D:1238:ARG:HG2	1:Z:830:SER:HB2	1.66	0.76
5:F:1606:GLN:HB3	1:Z:141:ASN:HD22	1.50	0.76
7:K:359:ASN:HA	7:K:362:ASN:HD22	1.49	0.76
7:K:483:VAL:CB	7:K:493:SER:C	2.53	0.76
1:N:141:ASN:HD22	5:R:1606:GLN:HB3	1.50	0.76
6:V:319:GLU:HA	6:V:322:THR:HG22	1.66	0.76
6:V:376:LYS:NZ	8:X:756:ASN:HD22	1.84	0.76
1:Z:133:THR:HG22	1:Z:134:LYS:H	1.48	0.76
5:F:506:ASN:O	5:F:510:PHE:HB2	1.84	0.76
1:N:133:THR:HG22	1:N:134:LYS:H	1.49	0.76
7:W:313:TYR:HA	7:W:349:PRO:HB3	1.68	0.76
3:D:509:PHE:HA	3:D:517:LEU:HG	1.68	0.76
5:F:1216:PHE:HE2	5:F:1282:ALA:HB1	1.48	0.76
8:I:822:LYS:HA	8:I:822:LYS:NZ	1.99	0.76
1:N:830:SER:HB2	3:P:1238:ARG:HG2	1.66	0.76
3:P:744:SER:HA	3:P:758:ASP:HB2	1.67	0.76
5:R:1139:ILE:HG12	5:R:1291:SER:OG	1.84	0.76
5:R:1370:LEU:O	5:R:1371:ILE:HG12	1.86	0.76
6:V:398:VAL:CG2	7:W:462:ARG:O	2.30	0.76
7:W:385:GLN:HE21	7:W:385:GLN:HA	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:298:TYR:CE1	3:D:311:LYS:HE2	2.21	0.76
3:P:298:TYR:CE1	3:P:311:LYS:HE2	2.21	0.76
5:R:1038:LEU:O	5:R:1040:THR:N	2.18	0.76
3:D:977:LYS:CE	1:N:316:ALA:H	1.99	0.76
4:E:1319:LEU:HD21	4:E:1398:VAL:HG23	1.67	0.76
3:P:508:LYS:HG3	3:P:517:LEU:H	1.49	0.76
4:Q:923:LEU:HD11	4:Q:931:PHE:CE2	2.21	0.76
5:R:951:ARG:HH21	5:R:953:ASN:N	1.84	0.76
5:R:951:ARG:NH2	5:R:953:ASN:H	1.84	0.76
4:E:923:LEU:HD11	4:E:931:PHE:CE2	2.21	0.76
1:N:88:LYS:CE	8:U:805:ARG:CB	2.64	0.76
4:Q:1319:LEU:HD21	4:Q:1398:VAL:HG23	1.67	0.76
5:R:334:GLN:HE22	5:R:859:LYS:NZ	1.84	0.76
1:Z:810:ALA:C	1:Z:836:ASP:CA	2.54	0.76
3:D:1249:LEU:CB	5:F:1502:THR:O	2.34	0.75
5:F:1357:ALA:CA	5:F:1381:LEU:CB	2.63	0.75
5:F:1442:TRP:CE2	5:F:1484:ARG:HB3	2.21	0.75
6:J:376:LYS:NZ	8:L:756:ASN:HD22	1.84	0.75
7:K:321:ALA:C	7:K:348:ILE:HD11	2.06	0.75
3:P:977:LYS:CD	1:Z:316:ALA:H	1.98	0.75
8:I:805:ARG:CB	1:Z:88:LYS:CE	2.64	0.75
1:N:768:VAL:HA	1:N:771:ILE:HD12	1.67	0.75
3:D:508:LYS:HG3	3:D:517:LEU:H	1.50	0.75
5:F:159:LYS:NZ	5:F:363:ASP:CB	2.49	0.75
5:F:1550:LEU:HD21	5:F:1552:PHE:CE2	2.19	0.75
7:H:412:ILE:HA	7:H:415:LEU:HB2	1.67	0.75
7:K:313:TYR:HA	7:K:349:PRO:HB3	1.68	0.75
1:N:453:VAL:HG11	4:Q:1359:ILE:HG21	1.68	0.75
1:N:810:ALA:HB2	1:N:839:LEU:HA	1.68	0.75
1:N:826:ARG:O	3:P:1241:GLY:HA2	1.86	0.75
7:W:518:ARG:HH11	7:W:518:ARG:CB	1.96	0.75
5:F:227:ASP:CB	5:F:361:LEU:CB	2.64	0.75
5:F:1370:LEU:O	5:F:1371:ILE:HG12	1.86	0.75
6:J:365:SER:H	7:K:424:ASN:HD21	1.34	0.75
1:M:226:ARG:NH2	1:M:230:GLY:O	2.20	0.75
5:R:1116:VAL:HG11	5:R:1150:PHE:HZ	1.51	0.75
5:R:1216:PHE:CZ	5:R:1282:ALA:HA	2.22	0.75
1:Z:146:LEU:O	1:Z:146:LEU:HD12	1.85	0.75
1:A:120:ASN:OD1	6:J:413:ASN:ND2	2.20	0.75
5:F:1134:LYS:O	5:F:1136:LYS:N	2.16	0.75
7:K:538:LYS:CB	8:L:821:ILE:HG23	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:365:GLN:O	1:N:368:LEU:HB2	1.87	0.75
1:Z:810:ALA:HB2	1:Z:839:LEU:HA	1.68	0.75
1:A:192:ILE:HD12	1:A:571:LEU:HD11	1.68	0.75
1:A:783:SER:HA	1:A:839:LEU:CA	2.12	0.75
3:D:1140:LYS:HZ2	1:N:204:GLU:HA	0.95	0.75
6:J:388:CYS:CA	6:J:391:LEU:HD12	2.17	0.75
1:N:117:LYS:HB3	1:N:117:LYS:HZ1	1.49	0.75
3:P:413:LEU:HD11	3:P:444:VAL:HG11	1.69	0.75
3:D:576:LEU:HD22	3:D:601:THR:HB	1.69	0.75
5:R:159:LYS:NZ	5:R:363:ASP:CB	2.49	0.75
1:A:226:ARG:NH2	1:A:230:GLY:O	2.20	0.75
7:K:513:LEU:CD2	8:L:800:HIS:CE1	2.69	0.75
5:R:1442:TRP:CE2	5:R:1484:ARG:HB3	2.21	0.75
6:V:395:GLU:OE1	7:W:462:ARG:CB	2.34	0.75
3:D:402:ILE:HG21	3:D:406:THR:H	1.52	0.75
7:K:538:LYS:CB	8:L:821:ILE:CG2	2.64	0.75
1:N:207:ILE:HD11	1:N:247:GLY:HA3	1.64	0.75
4:Q:224:CYS:O	4:Q:228:ASN:HB2	1.87	0.75
7:W:321:ALA:C	7:W:348:ILE:HD11	2.06	0.75
7:W:517:GLN:HA	7:W:520:ILE:HB	1.68	0.75
1:Z:44:VAL:CB	1:Z:47:ASN:ND2	2.50	0.75
5:R:227:ASP:CB	5:R:361:LEU:CB	2.64	0.74
5:F:1034:LEU:O	5:F:1095:LEU:HD11	1.85	0.74
5:F:1274:ASP:HA	5:F:1277:VAL:HB	1.68	0.74
7:K:446:ARG:NH2	7:K:455:LYS:CE	2.50	0.74
1:N:44:VAL:CB	1:N:47:ASN:ND2	2.50	0.74
1:N:830:SER:HB3	3:P:1238:ARG:CA	2.13	0.74
7:T:412:ILE:CG2	7:T:415:LEU:CD2	2.62	0.74
1:Z:116:LYS:HE2	1:Z:116:LYS:O	1.87	0.74
1:A:82:ASP:OD1	1:A:82:ASP:N	2.14	0.74
1:A:137:ASP:HB2	4:E:1386:LEU:HA	1.69	0.74
3:D:1241:GLY:HA2	1:Z:826:ARG:O	1.87	0.74
7:H:420:ALA:HB1	8:I:745:TYR:HE1	1.48	0.74
1:A:22:LEU:HB3	1:N:32:LEU:HD22	1.70	0.74
1:A:233:ASP:OD2	1:A:236:ASN:ND2	2.21	0.74
5:F:1216:PHE:CZ	5:F:1282:ALA:HA	2.22	0.74
3:P:402:ILE:HG21	3:P:406:THR:H	1.51	0.74
5:R:424:SER:O	5:R:428:GLN:NE2	2.21	0.74
6:V:398:VAL:HG22	7:W:466:LEU:HD11	1.69	0.74
1:Z:810:ALA:HB1	1:Z:836:ASP:N	2.02	0.74
1:M:128:LEU:HD13	4:Q:1260:TYR:CE2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:387:GLN:HA	7:W:387:GLN:HE21	1.51	0.74
7:H:425:ARG:O	7:H:427:LEU:N	2.19	0.74
1:M:19:ASN:HA	1:M:22:LEU:HD12	1.67	0.74
1:N:116:LYS:HE2	1:N:116:LYS:O	1.88	0.74
1:N:810:ALA:HB1	1:N:836:ASP:N	2.02	0.74
3:P:509:PHE:HA	3:P:517:LEU:HG	1.68	0.74
3:P:977:LYS:HE2	1:Z:316:ALA:N	2.03	0.74
3:P:1249:LEU:CB	5:R:1502:THR:O	2.34	0.74
5:R:1550:LEU:HD21	5:R:1552:PHE:CE2	2.19	0.74
3:D:490:LYS:HE2	3:D:533:SER:HB3	1.70	0.74
6:G:431:GLN:CB	7:H:503:ASN:N	2.51	0.74
6:V:390:ILE:HG23	6:V:394:ILE:CG2	2.18	0.74
6:V:390:ILE:C	6:V:394:ILE:HG23	2.08	0.74
7:W:379:ILE:O	7:W:382:LYS:N	2.21	0.74
6:G:357:LEU:O	8:I:732:ALA:O	2.06	0.74
1:M:120:ASN:OD1	6:V:413:ASN:ND2	2.20	0.74
1:M:137:ASP:HB2	4:Q:1386:LEU:HA	1.69	0.74
1:N:822:TYR:O	1:N:828:THR:HG23	1.88	0.74
3:P:576:LEU:HD22	3:P:601:THR:HB	1.69	0.74
6:S:470:LEU:CB	7:T:538:LYS:NZ	2.50	0.74
6:J:350:PHE:CD1	7:K:419:LEU:HD12	2.23	0.74
1:Z:754:ARG:HA	1:Z:819:MET:CB	2.17	0.74
2:C:1258:GLN:HG2	2:C:1299:LYS:HE2	1.68	0.73
1:N:453:VAL:HG11	4:Q:1359:ILE:CG2	2.18	0.73
6:V:433:LYS:H	7:W:499:GLY:HA3	1.52	0.73
7:K:387:GLN:HA	7:K:387:GLN:HE21	1.51	0.73
1:N:767:ILE:O	1:N:771:ILE:N	2.20	0.73
6:S:357:LEU:O	8:U:732:ALA:O	2.06	0.73
8:U:822:LYS:HA	8:U:822:LYS:HE3	1.70	0.73
6:V:303:GLU:HG2	6:V:304:LEU:HD12	1.70	0.73
1:Z:365:GLN:O	1:Z:368:LEU:HB2	1.87	0.73
1:Z:753:ALA:HB2	1:Z:816:TYR:N	2.02	0.73
4:E:1359:ILE:CG2	1:Z:453:VAL:HG11	2.18	0.73
1:M:192:ILE:HD12	1:M:571:LEU:HD11	1.68	0.73
1:N:116:LYS:HB3	1:N:116:LYS:NZ	1.95	0.73
1:N:754:ARG:HA	1:N:819:MET:CB	2.17	0.73
1:N:127:GLN:HE21	1:N:127:GLN:CA	2.01	0.73
1:A:128:LEU:HB3	4:E:1260:TYR:HE2	1.54	0.73
3:D:750:LYS:HB2	3:D:751:PRO:HD3	1.70	0.73
3:D:1134:SER:C	1:N:206:ASN:HD22	1.89	0.73
4:E:224:CYS:O	4:E:228:ASN:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1635:ARG:O	5:F:1639:GLY:HA3	1.89	0.73
4:Q:182:PHE:CZ	5:R:1189:MET:CB	2.71	0.73
6:V:376:LYS:HD2	6:V:376:LYS:O	1.89	0.73
5:F:951:ARG:NH2	5:F:953:ASN:H	1.84	0.73
5:F:1669:LEU:CB	1:Z:145:ASN:CB	2.67	0.73
6:J:433:LYS:H	7:K:499:GLY:HA3	1.52	0.73
7:K:287:GLN:O	7:K:291:GLN:N	2.18	0.73
1:N:125:ILE:CD1	5:R:1363:ILE:HG22	2.19	0.73
7:T:426:GLY:CA	8:U:736:ASN:H	1.98	0.73
1:Z:117:LYS:HB3	1:Z:117:LYS:HZ1	1.53	0.73
1:Z:211:LYS:HZ3	1:Z:246:ASN:CG	1.89	0.73
3:D:413:LEU:HD11	3:D:444:VAL:HG11	1.69	0.73
4:E:182:PHE:CZ	5:F:1189:MET:CB	2.71	0.73
6:S:431:GLN:CB	7:T:503:ASN:N	2.51	0.73
7:W:446:ARG:NH2	7:W:455:LYS:CE	2.50	0.73
1:Z:753:ALA:CB	1:Z:815:ILE:O	2.29	0.73
3:D:155:ASN:HA	3:D:646:SER:HB3	1.71	0.73
3:D:472:VAL:HG23	3:D:474:PRO:HD2	1.71	0.73
5:F:968:ILE:CG1	7:H:392:LEU:CD1	2.65	0.73
6:J:364:ILE:HA	7:K:424:ASN:HD22	1.52	0.73
1:M:24:GLU:CB	1:Z:26:LEU:HG	2.18	0.73
1:N:753:ALA:C	1:N:816:TYR:HA	2.09	0.73
3:P:750:LYS:HB2	3:P:751:PRO:HD3	1.70	0.73
6:V:365:SER:H	7:W:424:ASN:HD21	1.34	0.73
3:D:1019:ARG:HB3	1:N:251:ALA:CB	2.09	0.73
5:F:750:TRP:CZ2	5:F:901:PRO:CB	2.70	0.73
7:K:379:ILE:O	7:K:382:LYS:N	2.21	0.73
2:O:1258:GLN:HG2	2:O:1299:LYS:HE2	1.68	0.73
5:F:1216:PHE:CE2	5:F:1282:ALA:HB2	2.23	0.73
6:G:451:MET:SD	1:M:14:THR:HG21	2.28	0.73
1:N:771:ILE:HG22	1:N:772:PRO:CD	2.19	0.73
7:W:448:GLU:OE2	7:W:448:GLU:HA	1.89	0.73
1:Z:771:ILE:HG22	1:Z:772:PRO:CD	2.19	0.73
1:A:60:ASN:N	8:L:807:LEU:CB	2.52	0.72
5:F:334:GLN:HE22	5:F:859:LYS:NZ	1.83	0.72
5:F:951:ARG:HH21	5:F:953:ASN:N	1.84	0.72
1:M:16:LYS:HG3	6:V:468:ALA:HB1	1.69	0.72
7:T:425:ARG:O	7:T:427:LEU:N	2.19	0.72
6:V:350:PHE:CD1	7:W:419:LEU:HD12	2.23	0.72
6:V:364:ILE:HA	7:W:424:ASN:HD22	1.52	0.72
1:Z:127:GLN:HE21	1:Z:127:GLN:CA	2.01	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:822:TYR:O	1:Z:828:THR:CG2	2.38	0.72
7:K:312:VAL:HG23	7:K:352:ILE:HG13	1.71	0.72
1:N:145:ASN:CB	5:R:1669:LEU:CB	2.67	0.72
1:N:822:TYR:O	1:N:828:THR:CG2	2.38	0.72
3:P:155:ASN:HA	3:P:646:SER:HB3	1.71	0.72
5:R:1633:TYR:HE2	5:R:1635:ARG:HB2	1.47	0.72
1:Z:822:TYR:O	1:Z:828:THR:HG23	1.88	0.72
5:F:159:LYS:HE3	5:F:363:ASP:CA	2.15	0.72
5:F:354:ARG:CZ	5:F:354:ARG:HB3	2.20	0.72
1:N:254:LEU:CB	1:N:258:LYS:HE2	2.14	0.72
1:N:753:ALA:HB2	1:N:816:TYR:N	2.02	0.72
5:F:1363:ILE:HG22	1:Z:125:ILE:CD1	2.19	0.72
6:J:303:GLU:HG2	6:J:304:LEU:HD12	1.70	0.72
1:Z:753:ALA:C	1:Z:816:TYR:HA	2.08	0.72
6:J:376:LYS:O	6:J:376:LYS:HD2	1.89	0.72
1:M:233:ASP:OD2	1:M:236:ASN:ND2	2.21	0.72
5:R:354:ARG:HB3	5:R:354:ARG:CZ	2.20	0.72
8:U:724:ASP:O	8:U:727:SER:HB2	1.89	0.72
5:F:1027:GLN:HG2	5:F:1036:PRO:HA	1.71	0.72
7:K:404:ARG:HA	7:K:404:ARG:HE	1.55	0.72
7:K:520:ILE:HA	7:K:523:LEU:HB2	1.71	0.72
1:M:60:ASN:N	8:X:807:LEU:CB	2.52	0.72
3:P:490:LYS:HE2	3:P:533:SER:HB3	1.70	0.72
3:D:915:GLU:OE1	3:D:980:SER:HB3	1.90	0.72
5:F:424:SER:O	5:F:428:GLN:NE2	2.21	0.72
5:F:837:TYR:CB	5:F:918:PHE:CE2	2.71	0.72
6:J:391:LEU:HD23	6:J:394:ILE:HD11	1.71	0.72
3:P:268:ILE:HG21	3:P:284:PHE:HE2	1.54	0.72
5:R:750:TRP:CZ2	5:R:901:PRO:CB	2.70	0.72
7:W:312:VAL:HG23	7:W:352:ILE:HG13	1.71	0.72
1:A:315:LYS:HE3	1:A:321:LYS:HA	1.72	0.72
8:I:724:ASP:O	8:I:727:SER:HB2	1.89	0.72
1:M:128:LEU:CD2	4:Q:1260:TYR:CD2	2.62	0.72
1:N:207:ILE:HD12	1:N:246:ASN:O	1.89	0.72
6:V:400:GLY:O	6:V:403:THR:CB	2.37	0.72
7:W:404:ARG:HA	7:W:404:ARG:HE	1.55	0.72
8:X:637:LEU:HD21	8:X:640:LEU:HD23	1.72	0.72
1:Z:18:ALA:HA	1:Z:21:LYS:HB3	1.72	0.72
1:A:634:ASP:O	1:A:636:ARG:NH1	2.22	0.72
1:M:21:LYS:C	1:M:21:LYS:HD3	2.08	0.72
3:P:472:VAL:HG23	3:P:474:PRO:HD2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:470:LEU:HB2	7:H:538:LYS:NZ	2.05	0.71
8:L:637:LEU:HD21	8:L:640:LEU:HD23	1.72	0.71
8:I:822:LYS:HA	8:I:822:LYS:HE3	1.70	0.71
7:K:378:HIS:O	7:K:381:GLU:CB	2.38	0.71
3:P:935:PHE:HD2	3:P:936:VAL:HG22	1.55	0.71
5:R:1635:ARG:O	5:R:1639:GLY:HA3	1.89	0.71
7:W:509:ILE:CG2	1:Z:12:SER:CB	2.68	0.71
1:A:775:LEU:HB3	1:A:832:LEU:HD12	1.72	0.71
1:M:59:LYS:O	8:X:807:LEU:CB	2.39	0.71
1:N:44:VAL:O	1:N:47:ASN:HB2	1.91	0.71
1:Z:252:GLN:HG3	1:Z:253:LEU:HD23	1.73	0.71
5:F:1283:LYS:HA	5:F:1283:LYS:CE	2.17	0.71
6:J:390:ILE:CG2	8:L:762:LEU:HD11	2.19	0.71
3:P:860:ILE:HG21	3:P:893:ILE:HG13	1.72	0.71
3:P:977:LYS:HD3	1:Z:316:ALA:CB	2.20	0.71
6:V:404:ASP:O	6:V:408:ALA:N	2.23	0.71
6:V:432:LEU:CB	8:X:782:ILE:HA	2.19	0.71
7:W:287:GLN:O	7:W:291:GLN:N	2.18	0.71
7:W:426:GLY:HA2	8:X:738:ASP:HB3	1.72	0.71
4:E:984:ASP:N	4:E:984:ASP:OD1	2.17	0.71
6:G:470:LEU:CB	7:H:538:LYS:NZ	2.50	0.71
7:K:448:GLU:HA	7:K:448:GLU:OE2	1.89	0.71
1:M:128:LEU:HB3	4:Q:1260:TYR:HE2	1.54	0.71
3:P:1140:LYS:HZ2	1:Z:204:GLU:CB	2.04	0.71
1:M:634:ASP:O	1:M:636:ARG:NH1	2.22	0.71
3:P:451:SER:H	3:P:458:GLU:HB3	1.55	0.71
5:R:1027:GLN:HG2	5:R:1036:PRO:HA	1.71	0.71
1:Z:746:PRO:CB	1:Z:753:ALA:N	2.53	0.71
2:C:318:ILE:H	2:C:318:ILE:CD1	1.96	0.71
3:D:451:SER:H	3:D:458:GLU:HB3	1.55	0.71
3:D:935:PHE:HD2	3:D:936:VAL:HG22	1.55	0.71
6:J:432:LEU:CB	8:L:782:ILE:HA	2.19	0.71
6:V:389:ARG:O	6:V:389:ARG:NH1	2.23	0.71
1:Z:28:SER:HA	1:Z:32:LEU:HD13	1.71	0.71
6:G:458:ALA:HB1	1:Z:32:LEU:HD11	1.73	0.71
6:V:383:LYS:HE3	8:X:759:SER:HB2	1.73	0.71
7:W:321:ALA:N	7:W:348:ILE:CD1	2.39	0.71
5:F:887:PHE:N	5:F:888:PRO:CD	2.54	0.71
8:L:800:HIS:O	8:L:804:LEU:HB3	1.90	0.71
1:M:24:GLU:HA	1:M:24:GLU:OE2	1.91	0.71
1:M:24:GLU:HA	1:Z:26:LEU:HG	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1216:PHE:CE2	5:R:1282:ALA:HB2	2.23	0.71
1:Z:746:PRO:CB	1:Z:752:SER:C	2.59	0.71
5:F:1435:LYS:CE	5:F:1484:ARG:NH2	2.53	0.71
6:J:383:LYS:HE3	8:L:759:SER:HB2	1.73	0.71
1:M:315:LYS:HE3	1:M:321:LYS:HA	1.72	0.71
1:N:254:LEU:HG	1:N:258:LYS:NZ	2.05	0.71
1:N:746:PRO:CB	1:N:752:SER:C	2.59	0.71
5:R:376:ASN:CB	5:R:381:THR:C	2.60	0.71
5:R:837:TYR:CB	5:R:918:PHE:HE2	2.04	0.71
5:R:1435:LYS:CE	5:R:1484:ARG:NH2	2.53	0.71
7:W:317:ASN:CA	7:W:346:GLN:HB3	2.21	0.71
1:Z:44:VAL:O	1:Z:47:ASN:HB2	1.91	0.71
1:Z:242:LEU:HG	1:Z:254:LEU:HD22	1.71	0.71
5:F:376:ASN:CB	5:F:382:ASP:H	2.04	0.70
6:G:296:ALA:HB2	6:J:363:LYS:HD2	1.72	0.70
1:N:753:ALA:HB2	1:N:815:ILE:C	2.08	0.70
3:P:977:LYS:HD3	1:Z:316:ALA:H	1.54	0.70
3:P:1021:TYR:N	1:Z:249:ARG:HA	2.02	0.70
5:R:1024:LEU:HA	5:R:1048:LEU:HB3	1.72	0.70
5:F:1550:LEU:CD1	5:F:1604:ILE:CD1	2.68	0.70
1:M:140:ILE:HG22	4:Q:1393:LYS:HZ3	1.54	0.70
3:P:915:GLU:OE1	3:P:980:SER:HB3	1.90	0.70
7:W:321:ALA:HA	7:W:348:ILE:HD11	1.42	0.70
1:Z:767:ILE:O	1:Z:771:ILE:N	2.20	0.70
5:F:841:PHE:CE2	5:F:918:PHE:CD1	2.79	0.70
5:F:900:LEU:C	5:F:900:LEU:HD12	2.12	0.70
1:M:775:LEU:HB3	1:M:832:LEU:HD12	1.72	0.70
1:N:453:VAL:CG2	4:Q:1356:LEU:HB2	2.21	0.70
2:O:1388:HIS:O	4:Q:1331:LEU:HD11	1.91	0.70
3:P:617:ALA:HA	3:P:630:THR:HG21	1.73	0.70
4:Q:1029:ASN:HD21	7:W:475:SER:CB	2.04	0.70
5:R:333:GLU:O	5:R:335:ASP:N	2.23	0.70
5:R:1283:LYS:HA	5:R:1283:LYS:CE	2.17	0.70
8:X:800:HIS:O	8:X:804:LEU:HB3	1.90	0.70
1:A:59:LYS:O	8:L:807:LEU:CB	2.39	0.70
3:D:528:PRO:CG	3:D:624:PHE:CE2	2.73	0.70
1:N:16:LYS:HA	1:N:19:ASN:HD22	1.57	0.70
3:P:475:GLU:O	3:P:486:GLN:NE2	2.24	0.70
2:C:318:ILE:HD12	2:C:318:ILE:N	2.01	0.70
3:D:268:ILE:HG21	3:D:284:PHE:HE2	1.54	0.70
6:J:376:LYS:HZ1	8:L:756:ASN:HD22	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:317:ASN:CA	7:K:346:GLN:HB3	2.21	0.70
1:M:133:THR:O	1:M:136:PHE:N	2.25	0.70
1:N:746:PRO:CB	1:N:753:ALA:N	2.53	0.70
5:R:837:TYR:CB	5:R:918:PHE:CE2	2.71	0.70
1:Z:753:ALA:O	1:Z:816:TYR:HA	1.92	0.70
3:D:860:ILE:HG21	3:D:893:ILE:HG13	1.72	0.70
5:F:1294:LYS:O	5:F:1295:ALA:C	2.28	0.70
1:N:753:ALA:HA	1:N:816:TYR:HA	1.72	0.70
5:R:968:ILE:HG12	7:T:392:LEU:HD13	1.74	0.70
5:R:1134:LYS:C	5:R:1136:LYS:N	2.45	0.70
6:S:296:ALA:HB2	6:V:363:LYS:HD2	1.72	0.70
7:W:378:HIS:O	7:W:381:GLU:CB	2.39	0.70
1:Z:601:PRO:HB3	1:Z:605:GLU:HB2	1.74	0.70
3:D:937:SER:HB3	3:D:941:GLN:HB2	1.73	0.70
4:E:1309:ARG:O	4:E:1313:ARG:CG	2.35	0.70
5:F:1080:LEU:HG	5:F:1156:TYR:HD2	1.56	0.70
5:F:1216:PHE:HZ	5:F:1282:ALA:HA	1.55	0.70
1:N:46:ILE:HA	6:S:327:LYS:HZ2	1.56	0.70
1:N:601:PRO:HB3	1:N:605:GLU:HB2	1.74	0.70
7:W:310:ALA:O	7:W:352:ILE:N	2.25	0.70
7:W:520:ILE:HA	7:W:523:LEU:HB2	1.72	0.70
1:Z:242:LEU:HG	1:Z:254:LEU:HD21	1.73	0.70
4:E:1029:ASN:HD21	7:K:475:SER:CB	2.04	0.70
5:F:1088:ARG:HH11	5:F:1088:ARG:HG3	1.56	0.70
1:N:255:GLU:HB2	1:N:480:GLN:NE2	2.07	0.70
4:E:1356:LEU:HB2	1:Z:453:VAL:CG2	2.22	0.70
6:G:295:LYS:CD	6:J:363:LYS:HZ3	2.05	0.70
6:J:429:LEU:HA	6:J:434:THR:H	1.57	0.70
5:R:967:THR:O	7:T:392:LEU:CD2	2.40	0.70
7:T:420:ALA:HB1	8:U:745:TYR:HE1	1.48	0.70
6:V:429:LEU:HA	6:V:434:THR:H	1.57	0.70
1:Z:753:ALA:HB2	1:Z:815:ILE:C	2.08	0.70
3:D:475:GLU:O	3:D:486:GLN:NE2	2.24	0.70
3:P:828:ILE:HD13	3:P:925:GLN:HA	1.74	0.70
5:R:376:ASN:CB	5:R:382:ASP:H	2.03	0.70
6:V:463:LYS:HE3	7:W:526:VAL:HG12	1.74	0.70
3:D:617:ALA:HA	3:D:630:THR:HG21	1.73	0.69
5:F:328:ASP:HB3	5:F:331:ILE:HD11	1.74	0.69
5:F:914:ASP:OD1	5:F:917:PHE:HB2	1.91	0.69
1:M:82:ASP:OD1	1:M:82:ASP:N	2.14	0.69
3:P:763:ASP:HB3	3:P:765:ILE:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1036:PRO:CB	5:R:1042:ILE:CB	2.70	0.69
7:K:505:ARG:HA	7:K:508:LYS:HB3	1.73	0.69
5:R:841:PHE:CE2	5:R:918:PHE:CD1	2.79	0.69
5:F:376:ASN:CB	5:F:382:ASP:N	2.55	0.69
5:F:1024:LEU:HA	5:F:1048:LEU:HB3	1.72	0.69
7:H:412:ILE:O	7:H:415:LEU:HB3	1.92	0.69
1:M:682:GLU:HG2	1:M:691:ARG:HH22	1.58	0.69
3:P:222:ASN:H	3:P:301:SER:HB2	1.57	0.69
3:P:937:SER:HB3	3:P:941:GLN:HB2	1.73	0.69
5:R:1080:LEU:HG	5:R:1156:TYR:HD2	1.56	0.69
7:T:508:LYS:HG3	7:T:510:VAL:HG13	1.75	0.69
5:F:1116:VAL:HG11	5:F:1150:PHE:HZ	1.51	0.69
7:H:508:LYS:HG3	7:H:510:VAL:HG13	1.75	0.69
3:P:528:PRO:CG	3:P:624:PHE:CE2	2.73	0.69
3:P:977:LYS:CE	1:Z:315:LYS:HA	2.20	0.69
5:R:900:LEU:C	5:R:900:LEU:HD12	2.12	0.69
6:S:470:LEU:HB2	7:T:538:LYS:NZ	2.05	0.69
3:D:763:ASP:HB3	3:D:765:ILE:HD11	1.74	0.69
7:K:310:ALA:O	7:K:352:ILE:N	2.25	0.69
1:N:46:ILE:HA	6:S:327:LYS:NZ	2.08	0.69
5:R:914:ASP:OD1	5:R:917:PHE:HB2	1.91	0.69
6:S:430:LEU:C	7:T:503:ASN:CB	2.61	0.69
5:F:1036:PRO:CB	5:F:1042:ILE:CB	2.70	0.69
6:J:389:ARG:HG2	6:J:389:ARG:HH11	1.58	0.69
1:M:669:ASP:O	1:M:724:ARG:NH2	2.25	0.69
1:N:753:ALA:O	1:N:816:TYR:HA	1.92	0.69
3:P:261:LEU:HD13	3:P:311:LYS:HB2	1.75	0.69
5:R:376:ASN:CB	5:R:382:ASP:N	2.55	0.69
7:T:412:ILE:O	7:T:415:LEU:HB3	1.92	0.69
1:Z:810:ALA:HB1	1:Z:835:ILE:C	2.12	0.69
1:A:15:SER:CA	6:S:447:PHE:CZ	2.73	0.69
1:A:301:ASN:HB3	1:A:345:LEU:HD13	1.74	0.69
1:A:775:LEU:HD13	1:A:832:LEU:HD11	1.75	0.69
5:F:1157:TRP:CD1	5:F:1160:TYR:CE1	2.81	0.69
1:N:810:ALA:HB1	1:N:835:ILE:C	2.12	0.69
1:A:775:LEU:HD13	1:A:832:LEU:CD1	2.23	0.69
3:D:828:ILE:HD13	3:D:925:GLN:HA	1.73	0.69
3:D:1019:ARG:HA	1:N:245:ALA:HB3	1.74	0.69
5:F:376:ASN:CB	5:F:381:THR:C	2.59	0.69
5:F:968:ILE:HG12	7:H:392:LEU:HD13	1.74	0.69
6:G:327:LYS:NZ	1:Z:46:ILE:HA	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:412:ILE:CG2	7:H:415:LEU:CD2	2.62	0.69
7:H:426:GLY:CA	8:I:736:ASN:H	1.97	0.69
1:M:24:GLU:CA	1:Z:26:LEU:HG	2.23	0.69
2:O:318:ILE:HD12	2:O:318:ILE:N	2.01	0.69
3:P:545:GLN:HG3	3:P:572:LEU:HD13	1.74	0.69
5:R:926:LEU:HD12	5:R:926:LEU:O	1.93	0.69
5:R:1088:ARG:HH11	5:R:1088:ARG:HG3	1.57	0.69
5:R:1294:LYS:O	5:R:1295:ALA:C	2.28	0.69
6:S:295:LYS:CD	6:V:363:LYS:HZ3	2.05	0.69
1:A:682:GLU:HG2	1:A:691:ARG:HH22	1.58	0.69
1:A:816:TYR:HA	1:A:819:MET:HG2	1.74	0.69
2:C:1388:HIS:O	4:E:1331:LEU:HD11	1.92	0.69
3:D:545:GLN:HG3	3:D:572:LEU:HD13	1.74	0.69
4:E:260:ARG:HH11	4:E:260:ARG:CG	2.05	0.69
6:J:383:LYS:HZ3	8:L:756:ASN:CB	1.95	0.69
1:N:748:SER:OG	1:N:752:SER:HB3	1.92	0.69
6:V:357:LEU:HB3	7:W:423:LYS:HE2	1.68	0.69
6:V:390:ILE:HG22	6:V:394:ILE:HG21	1.74	0.69
1:A:15:SER:HB2	6:S:447:PHE:HZ	1.48	0.69
3:D:222:ASN:H	3:D:301:SER:HB2	1.57	0.69
7:K:426:GLY:HA2	8:L:738:ASP:HB3	1.72	0.69
1:M:816:TYR:HA	1:M:819:MET:HG2	1.74	0.69
1:N:133:THR:O	1:N:136:PHE:N	2.25	0.69
5:R:968:ILE:CG1	7:T:392:LEU:CD1	2.65	0.69
8:U:738:ASP:HB2	8:U:740:LYS:HE2	1.74	0.69
1:Z:782:ILE:CB	1:Z:839:LEU:O	2.41	0.69
1:M:775:LEU:HD13	1:M:832:LEU:CD1	2.23	0.68
1:N:250:ASN:HA	1:N:253:LEU:HB2	1.74	0.68
3:P:977:LYS:CE	1:Z:316:ALA:N	2.56	0.68
8:U:821:ILE:C	8:U:821:ILE:HD13	2.13	0.68
1:Z:748:SER:OG	1:Z:752:SER:HB3	1.92	0.68
1:A:669:ASP:O	1:A:724:ARG:NH2	2.25	0.68
5:F:333:GLU:O	5:F:335:ASP:N	2.22	0.68
8:I:738:ASP:HB2	8:I:740:LYS:HE2	1.74	0.68
8:I:821:ILE:HD13	8:I:821:ILE:C	2.13	0.68
1:M:814:MET:HG2	1:M:833:ILE:HG12	1.76	0.68
3:P:1137:ASP:CB	1:Z:205:ASN:HB3	2.24	0.68
5:R:1157:TRP:CD1	5:R:1160:TYR:CE1	2.81	0.68
5:F:926:LEU:HD12	5:F:926:LEU:O	1.93	0.68
6:G:396:THR:CB	1:Z:89:ASP:OD2	2.41	0.68
1:M:775:LEU:HD13	1:M:832:LEU:HD11	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1398:VAL:O	4:Q:1398:VAL:CG1	2.41	0.68
5:R:376:ASN:CB	5:R:381:THR:N	2.55	0.68
5:R:750:TRP:HE1	5:R:754:ASP:HB2	1.59	0.68
1:A:814:MET:HG2	1:A:833:ILE:HG12	1.75	0.68
6:G:430:LEU:C	7:H:503:ASN:CB	2.61	0.68
1:N:89:ASP:OD2	6:S:396:THR:CB	2.41	0.68
1:N:782:ILE:CB	1:N:839:LEU:O	2.41	0.68
3:P:1134:SER:HB3	1:Z:206:ASN:HD22	1.55	0.68
5:F:376:ASN:CB	5:F:381:THR:N	2.55	0.68
6:J:388:CYS:SG	7:K:453:LEU:CA	2.82	0.68
1:N:46:ILE:CA	6:S:327:LYS:NZ	2.57	0.68
5:R:328:ASP:HB3	5:R:331:ILE:HD11	1.74	0.68
7:W:483:VAL:H	7:W:493:SER:C	1.96	0.68
5:F:922:LEU:HD23	7:H:400:LYS:HZ1	1.54	0.68
5:F:1558:ASP:C	5:R:1681:ASN:CB	2.61	0.68
1:M:23:ASN:HA	1:M:26:LEU:HD12	1.74	0.68
5:R:1216:PHE:HZ	5:R:1282:ALA:HA	1.55	0.68
6:S:289:GLN:OE1	6:V:352:VAL:HA	1.94	0.68
3:D:977:LYS:HE2	1:N:316:ALA:N	2.09	0.68
6:G:289:GLN:OE1	6:J:352:VAL:HA	1.94	0.68
7:W:509:ILE:CG2	1:Z:12:SER:OG	2.34	0.68
3:D:421:VAL:HG21	3:D:490:LYS:HB3	1.74	0.68
7:K:483:VAL:H	7:K:493:SER:C	1.96	0.68
5:R:661:VAL:HG11	5:R:712:LEU:CD1	2.23	0.68
5:R:1550:LEU:CD1	5:R:1604:ILE:CD1	2.68	0.68
5:F:320:GLU:OE1	5:F:351:HIS:CE1	2.47	0.68
5:F:661:VAL:HG11	5:F:712:LEU:CD1	2.23	0.68
5:F:1633:TYR:HE2	5:F:1635:ARG:HB2	1.47	0.68
6:J:388:CYS:SG	7:K:453:LEU:C	2.72	0.68
8:L:728:THR:HB	8:L:734:ALA:HB2	1.76	0.68
1:N:774:LEU:HD23	1:N:774:LEU:C	2.14	0.68
7:W:308:LEU:HD13	7:W:355:PHE:HE2	1.58	0.68
1:Z:774:LEU:HD23	1:Z:774:LEU:C	2.14	0.68
1:A:133:THR:O	1:A:136:PHE:N	2.25	0.68
1:A:364:GLU:OE1	1:A:408:ARG:NH1	2.26	0.68
5:F:967:THR:O	7:H:392:LEU:CD2	2.40	0.68
5:R:1303:LEU:HD13	5:R:1303:LEU:O	1.94	0.68
1:A:57:ARG:HG2	1:A:57:ARG:NH1	2.01	0.67
1:A:128:LEU:CD2	4:E:1260:TYR:CD2	2.62	0.67
3:D:261:LEU:HD13	3:D:311:LYS:HB2	1.75	0.67
5:F:1303:LEU:O	5:F:1303:LEU:HD13	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:364:GLU:OE1	1:M:408:ARG:NH1	2.26	0.67
3:P:421:VAL:HG21	3:P:490:LYS:HB3	1.74	0.67
7:W:451:ALA:HB3	7:W:453:LEU:HD12	1.76	0.67
1:Z:211:LYS:NZ	1:Z:246:ASN:ND2	2.42	0.67
6:J:297:ASP:OD2	7:K:362:ASN:ND2	2.27	0.67
7:K:451:ALA:HB3	7:K:453:LEU:HD12	1.76	0.67
3:P:1021:TYR:N	1:Z:249:ARG:CB	2.56	0.67
1:A:249:ARG:NH1	1:A:494:TYR:OH	2.27	0.67
5:F:249:ASP:OD2	5:F:295:ARG:NH1	2.27	0.67
5:F:667:SER:HA	5:F:670:LYS:HB3	1.76	0.67
6:G:327:LYS:NZ	1:Z:46:ILE:CA	2.57	0.67
7:K:308:LEU:HD13	7:K:355:PHE:HE2	1.58	0.67
1:N:87:ILE:HD13	1:N:87:ILE:N	2.10	0.67
3:P:292:ASN:ND2	3:P:380:TYR:OH	2.28	0.67
5:R:320:GLU:OE1	5:R:351:HIS:CE1	2.47	0.67
7:T:412:ILE:O	7:T:415:LEU:CB	2.42	0.67
6:G:295:LYS:CG	6:J:363:LYS:HZ3	2.07	0.67
6:J:357:LEU:CB	7:K:423:LYS:CE	2.43	0.67
2:O:784:ALA:HB3	3:P:1357:LYS:H	1.59	0.67
6:V:390:ILE:O	6:V:394:ILE:N	2.19	0.67
1:Z:746:PRO:O	1:Z:812:GLN:C	2.33	0.67
5:F:750:TRP:HE1	5:F:754:ASP:HB2	1.59	0.67
1:M:249:ARG:NH1	1:M:494:TYR:OH	2.27	0.67
1:N:724:ARG:NH1	1:N:724:ARG:O	2.27	0.67
5:R:928:LEU:H	5:R:928:LEU:CD1	1.92	0.67
6:V:297:ASP:OD2	7:W:362:ASN:ND2	2.28	0.67
3:D:235:SER:HB2	3:D:240:LEU:HD13	1.77	0.67
6:J:380:TYR:CE2	8:L:751:LEU:CD2	2.68	0.67
1:N:29:SER:HA	1:N:32:LEU:HG	1.75	0.67
1:N:810:ALA:HB2	1:N:839:LEU:CB	2.24	0.67
5:R:926:LEU:HD12	5:R:926:LEU:C	2.15	0.67
5:R:1359:PHE:CE1	5:R:1363:ILE:HG23	2.29	0.67
5:F:1359:PHE:CE1	5:F:1363:ILE:HG23	2.29	0.67
7:H:412:ILE:O	7:H:415:LEU:CB	2.42	0.67
6:J:364:ILE:CA	7:K:424:ASN:HD22	2.07	0.67
1:N:644:TYR:HB3	1:N:653:VAL:HG22	1.77	0.67
6:V:365:SER:N	7:W:424:ASN:HD22	1.91	0.67
7:W:520:ILE:HA	7:W:523:LEU:HD12	1.75	0.67
7:K:513:LEU:CD2	8:L:800:HIS:HE1	2.08	0.67
1:Z:724:ARG:NH1	1:Z:724:ARG:O	2.27	0.67
2:C:784:ALA:HB3	3:D:1357:LYS:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:977:LYS:CE	1:N:316:ALA:N	2.57	0.67
6:G:295:LYS:C	6:J:363:LYS:NZ	2.48	0.67
1:N:49:LEU:CG	6:S:331:LYS:HE2	2.25	0.67
4:Q:440:ILE:HG12	4:Q:590:LEU:HD13	1.77	0.67
7:T:527:LEU:HD23	7:T:527:LEU:C	2.15	0.67
8:U:739:GLN:C	8:U:741:ARG:H	1.97	0.67
7:W:326:LYS:CB	7:W:327:PRO:CD	2.72	0.67
1:Z:133:THR:O	1:Z:136:PHE:N	2.25	0.67
3:D:292:ASN:ND2	3:D:380:TYR:OH	2.28	0.67
5:F:837:TYR:CB	5:F:918:PHE:HE2	2.04	0.67
5:F:1134:LYS:C	5:F:1136:LYS:N	2.45	0.67
7:K:326:LYS:CB	7:K:327:PRO:CD	2.72	0.67
1:M:301:ASN:HB3	1:M:345:LEU:HD13	1.74	0.67
1:N:252:GLN:CD	1:N:498:PHE:CD2	2.67	0.67
5:R:667:SER:HA	5:R:670:LYS:HB3	1.76	0.67
5:R:1559:LEU:C	5:R:1559:LEU:HD12	2.14	0.67
7:T:418:GLN:HE22	8:U:718:THR:CG2	2.03	0.67
1:M:218:ILE:HD11	1:M:241:ILE:HD12	1.77	0.66
3:P:235:SER:HB2	3:P:240:LEU:HD13	1.77	0.66
3:P:583:TYR:HE2	3:P:628:PHE:HB2	1.59	0.66
7:W:509:ILE:C	7:W:509:ILE:HD12	2.15	0.66
5:F:926:LEU:HD12	5:F:926:LEU:C	2.15	0.66
5:R:860:ASN:HD22	5:R:861:GLN:HG3	1.59	0.66
7:W:355:PHE:HD1	7:W:358:LEU:HD12	1.60	0.66
8:X:728:THR:HB	8:X:734:ALA:HB2	1.76	0.66
1:Z:810:ALA:HB2	1:Z:839:LEU:CB	2.24	0.66
7:H:527:LEU:HD23	7:H:527:LEU:C	2.15	0.66
7:K:538:LYS:C	8:L:822:LYS:CB	2.64	0.66
1:N:49:LEU:HD12	6:S:331:LYS:CE	2.19	0.66
1:N:746:PRO:CB	1:N:752:SER:O	2.44	0.66
5:R:334:GLN:CB	5:R:860:ASN:CG	2.59	0.66
6:S:295:LYS:C	6:V:363:LYS:HZ2	1.99	0.66
7:W:429:LEU:C	7:W:429:LEU:HD12	2.15	0.66
3:D:583:TYR:HE2	3:D:628:PHE:HB2	1.59	0.66
3:D:753:PRO:HD2	3:D:756:LYS:HD2	1.77	0.66
4:E:440:ILE:HG12	4:E:590:LEU:HD13	1.77	0.66
7:K:429:LEU:C	7:K:429:LEU:HD12	2.15	0.66
5:R:249:ASP:OD2	5:R:295:ARG:NH1	2.28	0.66
5:R:690:GLU:OE1	8:U:722:LEU:HD23	1.95	0.66
5:R:1128:ASP:OD2	5:R:1206:ILE:HG23	1.96	0.66
7:T:532:ALA:CB	8:U:818:ILE:HD12	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:746:PRO:O	1:N:812:GLN:C	2.32	0.66
5:R:336:LYS:NZ	5:R:703:TYR:OH	2.29	0.66
5:R:350:ARG:O	5:R:393:SER:HB2	1.94	0.66
5:R:555:TRP:HB2	5:R:633:LYS:HD3	1.77	0.66
5:R:883:VAL:O	8:U:761:ASN:ND2	2.28	0.66
5:R:887:PHE:N	5:R:888:PRO:CD	2.54	0.66
7:T:404:ARG:O	7:T:408:ILE:HB	1.96	0.66
1:A:218:ILE:HD11	1:A:241:ILE:HD12	1.78	0.66
5:F:860:ASN:HD22	5:F:861:GLN:HG3	1.59	0.66
6:G:331:LYS:HE2	1:Z:49:LEU:CG	2.25	0.66
6:J:388:CYS:HA	6:J:391:LEU:CB	2.25	0.66
6:S:295:LYS:C	6:V:363:LYS:NZ	2.48	0.66
5:F:690:GLU:OE1	8:I:722:LEU:HD23	1.95	0.66
7:K:399:LEU:HD12	7:K:399:LEU:O	1.96	0.66
5:R:690:GLU:OE2	8:U:722:LEU:HD21	1.96	0.66
5:R:711:GLN:OE1	5:R:779:PRO:CA	2.44	0.66
7:W:387:GLN:HA	7:W:387:GLN:NE2	2.11	0.66
3:D:611:LEU:HD11	3:D:640:ALA:HB2	1.78	0.66
6:J:365:SER:N	7:K:424:ASN:HD22	1.91	0.66
3:P:260:HIS:CG	3:P:261:LEU:HA	2.31	0.66
3:P:915:GLU:OE1	3:P:980:SER:CB	2.44	0.66
5:R:809:LEU:HG	5:R:810:VAL:HG13	1.77	0.66
3:D:260:HIS:CG	3:D:261:LEU:HA	2.31	0.66
5:F:883:VAL:O	8:I:761:ASN:ND2	2.28	0.66
1:N:254:LEU:O	1:N:258:LYS:N	2.21	0.66
4:Q:1405:ASN:HB3	4:Q:1455:PRO:HG2	1.78	0.66
5:R:355:LEU:HD12	5:R:355:LEU:N	2.11	0.66
5:R:690:GLU:OE1	8:U:722:LEU:CD2	2.44	0.66
5:R:1116:VAL:CG1	5:R:1150:PHE:CZ	2.64	0.66
5:R:1642:LYS:HA	5:R:1645:LEU:HD23	1.77	0.66
7:W:352:ILE:HG21	7:W:358:LEU:HG	1.77	0.66
4:E:209:VAL:O	4:E:213:PHE:CB	2.44	0.66
5:F:711:GLN:OE1	5:F:779:PRO:CA	2.44	0.66
7:H:532:ALA:CB	8:I:818:ILE:HD12	2.20	0.66
6:J:333:ILE:CA	6:J:336:PHE:CB	2.74	0.66
8:U:786:ASN:O	8:U:786:ASN:ND2	2.29	0.66
6:V:357:LEU:CB	7:W:423:LYS:CE	2.43	0.66
5:F:1642:LYS:HA	5:F:1645:LEU:HD23	1.77	0.65
5:R:1424:GLU:O	5:R:1428:GLN:HB2	1.96	0.65
6:V:333:ILE:CA	6:V:336:PHE:CB	2.74	0.65
6:V:339:LEU:CB	7:W:405:ASN:OD1	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:509:ILE:HG22	1:Z:12:SER:CB	2.25	0.65
1:Z:87:ILE:HD13	1:Z:87:ILE:N	2.10	0.65
1:A:27:GLU:HB3	6:J:467:LEU:CD2	2.25	0.65
5:F:1314:VAL:HG11	5:F:1373:ASP:HB3	1.78	0.65
7:K:404:ARG:HG3	8:L:704:GLN:NE2	2.11	0.65
3:P:753:PRO:HD2	3:P:756:LYS:HD2	1.77	0.65
6:S:296:ALA:HA	6:V:363:LYS:HE3	1.79	0.65
6:V:334:SER:O	6:V:337:LYS:N	2.27	0.65
6:V:376:LYS:HZ1	8:X:756:ASN:HD22	1.42	0.65
7:W:399:LEU:HD12	7:W:399:LEU:O	1.96	0.65
3:D:863:ILE:HG21	3:D:887:GLN:HA	1.79	0.65
5:F:1303:LEU:O	5:F:1303:LEU:HD22	1.96	0.65
5:F:1442:TRP:CD2	5:F:1484:ARG:HD2	2.31	0.65
7:H:404:ARG:O	7:H:408:ILE:HB	1.96	0.65
6:J:370:ASP:HA	6:J:373:PHE:HB2	1.78	0.65
7:K:387:GLN:HA	7:K:387:GLN:NE2	2.11	0.65
1:N:49:LEU:HD22	1:N:49:LEU:C	2.15	0.65
1:N:116:LYS:HE2	1:N:116:LYS:C	2.17	0.65
5:R:1314:VAL:HG11	5:R:1373:ASP:HB3	1.78	0.65
1:Z:644:TYR:HB3	1:Z:653:VAL:HG22	1.77	0.65
5:F:555:TRP:HB2	5:F:633:LYS:HD3	1.77	0.65
5:F:809:LEU:HG	5:F:810:VAL:HG13	1.77	0.65
5:F:1116:VAL:CG1	5:F:1150:PHE:CZ	2.64	0.65
5:F:1435:LYS:HZ3	5:F:1484:ARG:NH2	1.93	0.65
7:K:291:GLN:HA	7:K:294:LYS:HB2	1.79	0.65
3:P:362:ASP:HB2	3:P:369:TYR:HE2	1.62	0.65
6:V:398:VAL:HG11	7:W:462:ARG:CB	2.26	0.65
1:Z:746:PRO:CB	1:Z:752:SER:O	2.44	0.65
3:D:580:VAL:O	3:D:595:ASN:N	2.29	0.65
5:F:355:LEU:N	5:F:355:LEU:HD12	2.11	0.65
6:G:449:LEU:HD21	1:Z:84:ASP:O	1.97	0.65
7:K:527:LEU:O	7:K:531:ALA:CB	2.45	0.65
1:N:196:ASN:HD21	1:N:530:ARG:HE	1.44	0.65
3:P:943:ASP:O	3:P:947:LEU:HG	1.97	0.65
5:R:22:PHE:O	5:R:26:LYS:NZ	2.30	0.65
5:R:389:LEU:HD12	5:R:389:LEU:N	2.10	0.65
3:D:454:ARG:HB3	3:D:455:PHE:HD1	1.62	0.65
1:N:84:ASP:O	6:S:449:LEU:HD21	1.97	0.65
1:N:824:MET:N	1:N:824:MET:SD	2.70	0.65
1:N:827:GLU:HA	1:N:827:GLU:OE2	1.97	0.65
3:P:611:LEU:HD11	3:P:640:ALA:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:914:ASP:CA	5:R:917:PHE:HB3	2.26	0.65
7:W:404:ARG:HG3	8:X:704:GLN:NE2	2.11	0.65
3:D:449:ASN:HD22	3:D:463:GLU:HG2	1.61	0.65
5:F:1128:ASP:OD2	5:F:1206:ILE:HG23	1.96	0.65
6:G:430:LEU:CB	8:I:780:THR:CB	2.75	0.65
1:M:192:ILE:HA	1:M:195:SER:HB3	1.79	0.65
4:Q:209:VAL:O	4:Q:213:PHE:CB	2.44	0.65
6:S:430:LEU:CB	8:U:780:THR:CB	2.75	0.65
3:D:971:ILE:HD11	3:D:984:THR:CB	2.26	0.65
6:G:296:ALA:HA	6:J:363:LYS:HE3	1.78	0.65
8:I:786:ASN:O	8:I:786:ASN:ND2	2.29	0.65
3:P:971:ILE:HD11	3:P:984:THR:CB	2.26	0.65
6:S:295:LYS:CG	6:V:363:LYS:HZ3	2.10	0.65
3:D:943:ASP:O	3:D:947:LEU:HG	1.96	0.65
4:E:1405:ASN:HB3	4:E:1455:PRO:HG2	1.78	0.65
5:F:22:PHE:O	5:F:26:LYS:NZ	2.30	0.65
5:F:900:LEU:HD12	5:F:900:LEU:O	1.97	0.65
7:K:352:ILE:HG21	7:K:358:LEU:HG	1.78	0.65
1:M:28:SER:CB	1:Z:23:ASN:CB	2.75	0.65
1:M:57:ARG:HH11	1:M:57:ARG:CG	2.09	0.65
1:N:146:LEU:HD12	1:N:146:LEU:C	2.17	0.65
1:N:762:ASN:N	3:P:1376:LYS:CB	2.60	0.65
3:P:377:ILE:HD11	3:P:420:ILE:HD13	1.79	0.65
3:P:412:ILE:HG13	3:P:413:LEU:HD12	1.79	0.65
5:R:844:VAL:HG22	5:R:862:ALA:HA	1.79	0.65
5:R:922:LEU:HD23	7:T:400:LYS:HZ2	1.59	0.65
8:U:792:GLN:HB2	8:U:795:LYS:HG3	1.79	0.65
1:Z:410:ALA:HB2	1:Z:428:VAL:HG11	1.79	0.65
1:Z:804:ASP:O	1:Z:808:ASN:CB	2.45	0.65
1:A:192:ILE:HA	1:A:195:SER:HB3	1.79	0.65
3:D:362:ASP:HB2	3:D:369:TYR:HE2	1.61	0.65
3:D:915:GLU:OE1	3:D:980:SER:CB	2.44	0.65
3:D:1376:LYS:CB	1:Z:762:ASN:N	2.60	0.65
5:F:690:GLU:OE1	8:I:722:LEU:CD2	2.44	0.65
8:I:792:GLN:HB2	8:I:795:LYS:HG3	1.79	0.65
6:J:339:LEU:CB	7:K:405:ASN:OD1	2.44	0.65
7:K:513:LEU:HD21	8:L:800:HIS:HE1	1.54	0.65
3:P:919:VAL:HG21	3:P:927:LEU:H	1.62	0.65
5:R:902:LYS:CE	7:T:414:LYS:CD	2.46	0.65
5:R:1088:ARG:HG3	5:R:1088:ARG:NH1	2.12	0.65
1:Z:116:LYS:HE2	1:Z:116:LYS:C	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:249:ASP:O	5:F:253:LYS:HB2	1.98	0.64
5:F:350:ARG:O	5:F:393:SER:HB2	1.94	0.64
5:F:690:GLU:OE2	8:I:722:LEU:HD21	1.96	0.64
6:G:350:PHE:CE2	7:H:418:GLN:NE2	2.65	0.64
3:P:581:PRO:HA	3:P:594:GLU:HA	1.79	0.64
4:Q:1022:TYR:O	4:Q:1026:THR:CG2	2.41	0.64
5:R:1303:LEU:O	5:R:1303:LEU:HD22	1.96	0.64
8:U:795:LYS:HZ2	8:U:795:LYS:C	2.00	0.64
1:Z:827:GLU:HA	1:Z:827:GLU:OE2	1.97	0.64
5:F:336:LYS:NZ	5:F:703:TYR:OH	2.29	0.64
5:F:382:ASP:HB3	5:F:386:GLY:H	1.62	0.64
8:I:643:LYS:HG3	8:I:647:GLN:HE22	1.63	0.64
5:R:249:ASP:O	5:R:253:LYS:HB2	1.98	0.64
5:R:1283:LYS:O	5:R:1284:SER:C	2.32	0.64
6:V:377:ILE:HG22	6:V:378:HIS:HD2	1.62	0.64
1:Z:49:LEU:HD22	1:Z:49:LEU:C	2.15	0.64
4:E:1319:LEU:HD21	4:E:1398:VAL:HG22	1.79	0.64
5:F:844:VAL:HG22	5:F:862:ALA:HA	1.80	0.64
5:F:1088:ARG:HG3	5:F:1088:ARG:NH1	2.12	0.64
7:K:355:PHE:HD1	7:K:358:LEU:HD12	1.60	0.64
1:M:449:GLU:O	1:M:456:ARG:NH2	2.31	0.64
1:N:410:ALA:HB2	1:N:428:VAL:HG11	1.79	0.64
3:P:449:ASN:HD22	3:P:463:GLU:HG2	1.61	0.64
3:P:454:ARG:HB3	3:P:455:PHE:HD1	1.62	0.64
5:R:1297:GLU:OE1	5:R:1297:GLU:HA	1.96	0.64
5:R:1442:TRP:CD2	5:R:1484:ARG:HD2	2.31	0.64
5:R:1635:ARG:O	5:R:1639:GLY:CA	2.46	0.64
6:S:350:PHE:CE2	7:T:418:GLN:NE2	2.65	0.64
1:Z:590:LEU:HD23	1:Z:604:ILE:HG21	1.80	0.64
3:D:260:HIS:CD2	3:D:261:LEU:HD23	2.33	0.64
5:F:914:ASP:CA	5:F:917:PHE:HB3	2.27	0.64
5:F:1084:LEU:HA	5:F:1156:TYR:HH	1.60	0.64
5:F:1297:GLU:OE1	5:F:1297:GLU:HA	1.96	0.64
4:Q:687:LYS:CB	5:R:1391:GLY:HA2	2.27	0.64
5:R:900:LEU:HD12	5:R:900:LEU:O	1.96	0.64
1:A:449:GLU:O	1:A:456:ARG:NH2	2.31	0.64
7:K:505:ARG:O	7:K:509:ILE:N	2.28	0.64
1:N:590:LEU:HD23	1:N:604:ILE:HG21	1.80	0.64
6:V:322:THR:O	6:V:326:LEU:HG	1.98	0.64
7:W:419:LEU:O	7:W:419:LEU:HD23	1.97	0.64
2:C:885:VAL:HG13	2:C:901:ILE:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:919:VAL:HG21	3:D:927:LEU:H	1.62	0.64
1:M:57:ARG:HG2	1:M:57:ARG:NH1	2.01	0.64
3:P:977:LYS:HE2	1:Z:316:ALA:H	1.57	0.64
3:P:977:LYS:HD3	1:Z:316:ALA:HB3	1.80	0.64
1:Z:824:MET:SD	1:Z:824:MET:N	2.70	0.64
1:A:210:GLU:O	1:A:213:GLU:N	2.31	0.64
3:D:529:GLY:O	3:D:581:PRO:HD3	1.98	0.64
3:D:977:LYS:HD3	1:N:316:ALA:CB	2.27	0.64
4:E:1022:TYR:O	4:E:1026:THR:CG2	2.41	0.64
5:F:442:ILE:HG23	5:F:443:ILE:HG13	1.80	0.64
8:I:731:GLY:C	8:I:733:ALA:H	2.01	0.64
6:J:377:ILE:HG22	6:J:378:HIS:HD2	1.62	0.64
1:M:210:GLU:O	1:M:213:GLU:N	2.31	0.64
5:R:38:ASN:HD22	5:R:41:LYS:HB2	1.63	0.64
5:R:177:GLN:NE2	5:R:178:ASN:OD1	2.31	0.64
4:E:687:LYS:CB	5:F:1391:GLY:HA2	2.27	0.64
5:F:177:GLN:NE2	5:F:178:ASN:OD1	2.31	0.64
5:F:389:LEU:HD12	5:F:389:LEU:N	2.11	0.64
5:F:718:SER:O	5:F:722:ARG:NH2	2.30	0.64
1:M:776:ILE:HG23	1:M:831:THR:HG22	1.79	0.64
1:N:92:THR:O	1:N:92:THR:OG1	2.15	0.64
3:P:260:HIS:CD2	3:P:261:LEU:HD23	2.33	0.64
3:P:863:ILE:HG21	3:P:887:GLN:HA	1.79	0.64
5:R:159:LYS:HZ2	5:R:363:ASP:CB	2.09	0.64
5:R:382:ASP:HB3	5:R:386:GLY:H	1.62	0.64
1:Z:577:ARG:HH21	1:Z:630:ARG:HE	1.46	0.64
1:Z:821:GLN:CB	1:Z:829:TYR:CB	2.76	0.64
5:F:1424:GLU:O	5:F:1428:GLN:HB2	1.97	0.64
1:N:45:SER:O	1:N:48:GLU:N	2.31	0.64
3:P:483:HIS:HB2	3:P:486:GLN:CG	2.28	0.64
8:U:643:LYS:HG3	8:U:647:GLN:HE22	1.63	0.64
1:Z:12:SER:OG	1:Z:15:SER:OG	2.16	0.64
5:F:1216:PHE:CE2	5:F:1282:ALA:HB1	2.29	0.64
6:G:331:LYS:CE	1:Z:49:LEU:HD12	2.20	0.64
1:M:775:LEU:CB	1:M:832:LEU:HD12	2.28	0.64
2:O:885:VAL:HG13	2:O:901:ILE:HG23	1.79	0.64
7:W:291:GLN:HA	7:W:294:LYS:HB2	1.79	0.64
1:A:772:PRO:CA	1:A:828:THR:CG2	2.72	0.63
4:E:1377:ASN:CB	4:E:1380:ASP:CB	2.76	0.63
5:F:321:GLN:HA	5:F:324:ILE:HG12	1.81	0.63
5:F:1309:LEU:O	5:F:1309:LEU:HD22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1633:TYR:CE2	5:F:1635:ARG:CB	2.60	0.63
6:J:334:SER:O	6:J:337:LYS:N	2.27	0.63
1:M:92:THR:O	6:V:400:GLY:C	2.37	0.63
1:N:125:ILE:HD12	5:R:1363:ILE:CG2	2.28	0.63
1:N:821:GLN:CB	1:N:829:TYR:CB	2.76	0.63
3:P:1020:ASN:ND2	1:Z:252:GLN:CB	2.60	0.63
3:P:1494:ASN:O	5:R:1471:LYS:HE2	1.98	0.63
4:Q:1377:ASN:CB	4:Q:1380:ASP:CB	2.76	0.63
5:R:1314:VAL:HG23	5:R:1314:VAL:O	1.98	0.63
7:W:518:ARG:NH1	7:W:518:ARG:O	2.31	0.63
1:A:776:ILE:HG23	1:A:831:THR:HG22	1.79	0.63
6:J:322:THR:O	6:J:326:LEU:HG	1.98	0.63
1:M:60:ASN:CB	8:X:803:ALA:O	2.47	0.63
1:N:310:ASP:HA	1:N:314:LYS:HB3	1.80	0.63
5:R:101:ASN:OD1	5:R:105:GLN:NE2	2.31	0.63
5:R:656:VAL:HG13	5:R:657:ILE:HG13	1.80	0.63
3:D:977:LYS:HE2	1:N:315:LYS:CB	2.28	0.63
4:E:1418:LEU:HG	4:E:1421:ILE:HD12	1.81	0.63
5:F:101:ASN:OD1	5:F:105:GLN:NE2	2.31	0.63
5:F:902:LYS:CE	7:H:414:LYS:CD	2.46	0.63
5:F:1084:LEU:CA	5:F:1156:TYR:OH	2.25	0.63
5:F:1543:LEU:C	5:F:1543:LEU:HD12	2.18	0.63
1:M:313:LEU:HD11	1:M:339:TYR:HE2	1.64	0.63
1:M:654:ILE:HD11	1:M:696:TYR:HD2	1.63	0.63
8:U:731:GLY:C	8:U:733:ALA:H	2.01	0.63
7:W:508:LYS:HZ1	1:Z:16:LYS:HB2	1.62	0.63
3:D:581:PRO:HA	3:D:594:GLU:HA	1.79	0.63
3:D:1494:ASN:O	5:F:1471:LYS:HE2	1.98	0.63
1:N:804:ASP:O	1:N:808:ASN:CB	2.45	0.63
5:R:1309:LEU:HD22	5:R:1309:LEU:O	1.98	0.63
5:R:1633:TYR:CE2	5:R:1635:ARG:CB	2.60	0.63
6:V:364:ILE:CA	7:W:424:ASN:HD22	2.07	0.63
6:V:405:LEU:HD11	7:W:470:ALA:N	2.11	0.63
7:W:365:GLN:HB3	8:X:669:LEU:HD13	1.81	0.63
1:Z:45:SER:O	1:Z:48:GLU:N	2.31	0.63
3:D:377:ILE:HD11	3:D:420:ILE:HD13	1.79	0.63
5:F:841:PHE:HD2	5:F:918:PHE:HE1	0.69	0.63
5:F:971:SER:HB3	7:H:392:LEU:HD21	1.80	0.63
5:F:1283:LYS:O	5:F:1284:SER:C	2.32	0.63
5:F:1363:ILE:CG2	1:Z:125:ILE:HD12	2.28	0.63
7:H:511:GLU:CB	8:I:800:HIS:CE1	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:315:LEU:HD23	8:L:679:LEU:HG	1.81	0.63
1:N:44:VAL:O	1:N:47:ASN:CB	2.46	0.63
3:P:529:GLY:O	3:P:581:PRO:HD3	1.98	0.63
5:R:442:ILE:HG23	5:R:443:ILE:HG13	1.80	0.63
5:R:1084:LEU:CA	5:R:1156:TYR:OH	2.25	0.63
1:A:654:ILE:HD11	1:A:696:TYR:HD2	1.63	0.63
5:F:36:ASN:HD22	5:F:110:ARG:HH11	1.47	0.63
5:F:656:VAL:HG13	5:F:657:ILE:HG13	1.80	0.63
8:I:778:LYS:O	8:I:778:LYS:HD3	1.98	0.63
7:K:419:LEU:HD23	7:K:419:LEU:O	1.97	0.63
8:L:703:GLN:HA	8:L:706:GLU:OE1	1.98	0.63
5:R:657:ILE:HG23	5:R:660:LEU:HB3	1.81	0.63
5:R:971:SER:HB3	7:T:392:LEU:HD21	1.80	0.63
8:U:778:LYS:O	8:U:778:LYS:HD3	1.98	0.63
6:V:389:ARG:HG2	6:V:389:ARG:HH11	1.63	0.63
1:Z:44:VAL:O	1:Z:47:ASN:CB	2.46	0.63
1:Z:196:ASN:HD21	1:Z:530:ARG:HE	1.44	0.63
1:Z:814:MET:CB	1:Z:833:ILE:HD12	2.28	0.63
5:F:1129:ASN:CG	5:F:1132:GLU:HB3	2.17	0.63
1:N:253:LEU:HD23	1:N:253:LEU:N	2.13	0.63
4:Q:1418:LEU:HG	4:Q:1421:ILE:HD12	1.81	0.63
6:V:370:ASP:HA	6:V:373:PHE:HB2	1.78	0.63
3:D:412:ILE:HG13	3:D:413:LEU:HD12	1.79	0.63
6:J:388:CYS:O	6:J:391:LEU:HB2	1.99	0.63
6:V:390:ILE:HG12	8:X:766:ILE:HD12	1.80	0.63
8:X:640:LEU:HA	8:X:643:LYS:HB3	1.81	0.63
8:X:703:GLN:HA	8:X:706:GLU:OE1	1.98	0.63
5:F:1406:TYR:HH	5:F:1452:SER:HG	1.46	0.63
3:P:850:ASN:HD22	3:P:904:LYS:HD3	1.64	0.63
4:Q:1143:GLN:HA	4:Q:1158:TYR:HA	1.81	0.63
4:Q:1309:ARG:O	4:Q:1313:ARG:CG	2.34	0.63
5:R:1314:VAL:HG11	5:R:1373:ASP:CB	2.29	0.63
5:R:1363:ILE:C	5:R:1363:ILE:HD12	2.19	0.63
5:R:1406:TYR:HH	5:R:1452:SER:HG	1.44	0.63
5:R:1543:LEU:C	5:R:1543:LEU:HD12	2.18	0.63
6:V:333:ILE:O	6:V:336:PHE:C	2.37	0.63
1:A:775:LEU:CB	1:A:832:LEU:HD12	2.28	0.62
3:D:557:THR:HG21	3:D:571:THR:HG21	1.81	0.62
4:E:421:PHE:O	4:E:425:LEU:HB2	1.99	0.62
5:F:657:ILE:HG23	5:F:660:LEU:HB3	1.80	0.62
6:J:393:ASP:N	6:J:393:ASP:OD1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:811:LEU:CD1	2:O:867:LEU:HD21	2.29	0.62
7:W:526:VAL:O	7:W:530:ASP:N	2.23	0.62
5:F:38:ASN:HD22	5:F:41:LYS:HB2	1.63	0.62
3:P:557:THR:HG21	3:P:571:THR:HG21	1.81	0.62
7:W:321:ALA:HA	7:W:348:ILE:HG13	1.76	0.62
7:W:508:LYS:NZ	1:Z:15:SER:HG	1.96	0.62
7:W:525:GLU:OE1	7:W:525:GLU:HA	1.99	0.62
1:Z:422:ARG:HE	1:Z:424:ASN:H	1.47	0.62
2:C:811:LEU:CD1	2:C:867:LEU:HD21	2.30	0.62
5:F:1305:SER:C	5:F:1307:VAL:H	2.03	0.62
5:F:1635:ARG:O	5:F:1639:GLY:CA	2.46	0.62
6:J:333:ILE:O	6:J:336:PHE:C	2.37	0.62
8:L:640:LEU:HA	8:L:643:LYS:HB3	1.80	0.62
1:N:577:ARG:HH21	1:N:630:ARG:HE	1.46	0.62
3:P:1136:ASP:OD2	1:Z:203:ASN:C	2.36	0.62
4:Q:1319:LEU:HD21	4:Q:1398:VAL:HG22	1.79	0.62
7:W:385:GLN:HE21	7:W:385:GLN:CA	2.12	0.62
8:X:682:ASP:O	8:X:685:MET:HG2	2.00	0.62
4:E:1640:ILE:O	4:E:1644:ILE:HB	1.99	0.62
6:J:357:LEU:HB3	7:K:423:LYS:HE2	1.68	0.62
7:K:365:GLN:HB3	8:L:669:LEU:HD13	1.81	0.62
8:L:643:LYS:O	8:L:647:GLN:NE2	2.33	0.62
1:M:123:MET:O	6:V:414:SER:HB2	2.00	0.62
1:M:137:ASP:CB	4:Q:1386:LEU:HG	2.30	0.62
3:P:421:VAL:HG22	3:P:491:ARG:HB3	1.82	0.62
5:R:1399:VAL:O	5:R:1399:VAL:HG12	2.00	0.62
1:A:123:MET:O	6:J:414:SER:HB2	2.00	0.62
1:A:337:ILE:HG23	1:A:349:ALA:HB1	1.81	0.62
4:E:980:LYS:O	4:E:980:LYS:HD2	2.00	0.62
4:E:1143:GLN:HA	4:E:1158:TYR:HA	1.81	0.62
5:F:1314:VAL:HG23	5:F:1314:VAL:O	1.98	0.62
5:F:1399:VAL:O	5:F:1399:VAL:HG12	2.00	0.62
7:K:338:ALA:HA	7:K:341:LYS:HE2	1.80	0.62
3:P:929:PHE:O	3:P:932:ILE:HG22	1.99	0.62
4:Q:421:PHE:O	4:Q:425:LEU:HB2	1.99	0.62
5:R:321:GLN:HA	5:R:324:ILE:HG12	1.81	0.62
5:R:1084:LEU:HA	5:R:1156:TYR:HH	1.60	0.62
8:X:685:MET:HA	8:X:688:HIS:ND1	2.14	0.62
3:D:850:ASN:HD22	3:D:904:LYS:HD3	1.64	0.62
5:F:603:GLU:HA	5:F:606:VAL:HG12	1.82	0.62
5:F:1363:ILE:C	5:F:1363:ILE:HD12	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:400:LYS:HD2	7:K:400:LYS:C	2.19	0.62
1:N:227:GLN:NE2	1:N:606:GLU:O	2.30	0.62
6:V:301:HIS:CE1	8:X:665:TRP:HB3	2.35	0.62
1:Z:310:ASP:HA	1:Z:314:LYS:HB3	1.80	0.62
1:A:60:ASN:CB	8:L:803:ALA:O	2.47	0.62
3:D:932:ILE:HG23	3:D:933:ILE:HG13	1.82	0.62
3:D:1137:ASP:CA	1:N:205:ASN:HA	2.30	0.62
7:H:426:GLY:HA2	8:I:736:ASN:CA	2.30	0.62
7:K:527:LEU:O	7:K:531:ALA:HB2	2.00	0.62
8:L:682:ASP:O	8:L:685:MET:HG2	2.00	0.62
5:R:36:ASN:HD22	5:R:110:ARG:HH11	1.47	0.62
5:R:690:GLU:HG3	8:U:722:LEU:HG	1.82	0.62
7:T:521:THR:HA	7:T:524:ASN:HB2	1.82	0.62
7:W:456:THR:C	7:W:458:GLU:H	2.03	0.62
8:X:643:LYS:O	8:X:647:GLN:NE2	2.33	0.62
3:D:412:ILE:HB	3:D:476:VAL:HG21	1.81	0.62
3:D:929:PHE:O	3:D:932:ILE:HG22	1.99	0.62
7:H:521:THR:HA	7:H:524:ASN:HB2	1.82	0.62
1:M:56:LEU:CB	8:X:804:LEU:HD13	2.30	0.62
1:M:542:THR:HA	1:M:545:PHE:CE1	2.35	0.62
1:N:56:LEU:HD22	1:N:60:ASN:HD21	1.65	0.62
1:N:84:ASP:OD2	6:S:452:ASP:CB	2.48	0.62
5:R:195:GLN:NE2	5:R:232:TYR:O	2.33	0.62
5:R:739:ARG:NH2	5:R:813:GLU:OE2	2.33	0.62
1:A:27:GLU:HB3	6:J:467:LEU:HD22	1.79	0.62
1:A:56:LEU:CB	8:L:804:LEU:HD13	2.30	0.62
3:D:518:GLU:HA	3:D:536:ILE:HD12	1.81	0.62
5:F:690:GLU:CD	8:I:722:LEU:HD23	2.19	0.62
3:P:1019:ARG:O	1:Z:250:ASN:CB	2.34	0.62
4:Q:567:ARG:O	4:Q:571:ASN:ND2	2.33	0.62
5:R:718:SER:O	5:R:722:ARG:NH2	2.30	0.62
7:T:511:GLU:CB	8:U:800:HIS:CE1	2.82	0.62
7:W:338:ALA:HA	7:W:341:LYS:HE2	1.80	0.62
1:A:542:THR:HA	1:A:545:PHE:CE1	2.35	0.62
1:A:742:LEU:HD13	1:A:744:LEU:HD12	1.82	0.62
3:D:483:HIS:HB2	3:D:486:GLN:CG	2.28	0.62
5:F:1469:ARG:HH12	5:F:1530:GLU:HG2	1.65	0.62
8:L:685:MET:HA	8:L:688:HIS:ND1	2.14	0.62
1:N:777:ILE:HG23	1:N:777:ILE:O	2.00	0.62
3:P:147:PRO:HB2	3:P:580:VAL:HG21	1.81	0.62
4:Q:1640:ILE:O	4:Q:1644:ILE:HB	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1129:ASN:CG	5:R:1132:GLU:HB3	2.17	0.62
1:A:137:ASP:CB	4:E:1386:LEU:HG	2.30	0.61
5:F:138:GLY:H	5:F:206:ILE:HD11	1.64	0.61
6:J:293:HIS:HB3	7:K:359:ASN:HD21	1.64	0.61
6:J:301:HIS:CE1	8:L:665:TRP:HB3	2.35	0.61
7:K:295:CYS:O	7:K:299:TRP:HB2	2.00	0.61
7:K:359:ASN:O	7:K:363:GLN:HG2	2.00	0.61
1:M:814:MET:HG2	1:M:833:ILE:CD1	2.28	0.61
5:R:303:LYS:O	5:R:307:ASP:HB2	2.00	0.61
5:R:334:GLN:HE22	5:R:859:LYS:CD	2.13	0.61
6:S:431:GLN:CB	7:T:503:ASN:CB	2.78	0.61
2:C:867:LEU:HD22	2:C:888:LEU:HD21	1.82	0.61
5:F:334:GLN:CB	5:F:860:ASN:CG	2.59	0.61
6:G:455:GLU:HB3	1:Z:32:LEU:HD23	1.78	0.61
1:N:826:ARG:O	3:P:1241:GLY:CA	2.48	0.61
4:Q:673:SER:O	4:Q:677:ASN:ND2	2.33	0.61
4:Q:982:ILE:O	4:Q:982:ILE:HG22	2.00	0.61
5:R:668:ARG:HH22	5:R:719:ILE:HA	1.65	0.61
5:R:759:ASP:O	5:R:773:LYS:NZ	2.33	0.61
5:R:1653:LYS:HG2	5:R:1655:SER:H	1.66	0.61
7:T:386:LEU:O	8:U:690:GLN:NE2	2.33	0.61
1:Z:25:LEU:HD13	1:Z:25:LEU:C	2.20	0.61
5:F:1314:VAL:HG11	5:F:1373:ASP:CB	2.29	0.61
7:K:456:THR:C	7:K:458:GLU:H	2.03	0.61
4:Q:980:LYS:HD2	4:Q:980:LYS:O	2.00	0.61
5:R:1469:ARG:HH12	5:R:1530:GLU:HG2	1.65	0.61
1:A:313:LEU:HD11	1:A:339:TYR:HE2	1.64	0.61
3:D:242:MET:SD	3:D:298:TYR:HD2	2.17	0.61
6:G:431:GLN:CB	7:H:503:ASN:CB	2.78	0.61
8:L:637:LEU:HD23	8:L:640:LEU:H	1.65	0.61
1:M:814:MET:HG3	1:M:833:ILE:HD13	1.79	0.61
1:N:46:ILE:HD12	1:N:46:ILE:C	2.21	0.61
5:R:922:LEU:H	5:R:922:LEU:HD12	1.65	0.61
3:D:470:SER:HB3	3:D:475:GLU:HG2	1.82	0.61
5:F:334:GLN:HE22	5:F:859:LYS:CD	2.13	0.61
6:G:427:GLU:CB	8:I:779:THR:HG21	2.31	0.61
3:P:927:LEU:HD13	3:P:973:ARG:HH22	1.65	0.61
5:R:398:MET:O	5:R:400:THR:HG23	2.01	0.61
7:T:426:GLY:HA2	8:U:736:ASN:CA	2.30	0.61
6:V:390:ILE:HG23	6:V:394:ILE:HG22	1.83	0.61
1:Z:146:LEU:HD12	1:Z:146:LEU:C	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:357:LEU:HB3	7:K:423:LYS:HE3	0.67	0.61
2:O:867:LEU:HD22	2:O:888:LEU:HD21	1.82	0.61
3:P:412:ILE:HB	3:P:476:VAL:HG21	1.81	0.61
5:R:138:GLY:H	5:R:206:ILE:HD11	1.64	0.61
5:R:334:GLN:HG3	5:R:854:GLU:CD	2.18	0.61
5:R:1435:LYS:HE2	5:R:1484:ARG:HH21	1.65	0.61
5:R:1561:LEU:HD23	5:R:1561:LEU:O	1.99	0.61
6:V:380:TYR:CE2	8:X:751:LEU:CD2	2.68	0.61
7:W:317:ASN:HA	7:W:346:GLN:HB3	1.82	0.61
8:X:637:LEU:HD23	8:X:640:LEU:H	1.64	0.61
3:D:147:PRO:HB2	3:D:580:VAL:HG21	1.81	0.61
3:D:971:ILE:CD1	3:D:984:THR:HB	2.30	0.61
4:E:215:GLN:NE2	4:E:219:GLN:OE1	2.34	0.61
4:E:567:ARG:O	4:E:571:ASN:ND2	2.33	0.61
4:E:673:SER:O	4:E:677:ASN:ND2	2.33	0.61
4:E:679:SER:OG	4:E:680:ASP:N	2.34	0.61
5:F:1156:TYR:O	5:F:1159:GLN:N	2.33	0.61
6:G:452:ASP:CB	1:Z:84:ASP:OD2	2.48	0.61
1:M:337:ILE:HG23	1:M:349:ALA:HB1	1.81	0.61
1:N:459:LEU:O	1:N:463:GLN:HB2	2.01	0.61
3:P:237:THR:O	3:P:266:GLN:HA	2.01	0.61
3:P:713:ILE:HD12	3:P:769:ARG:HD3	1.83	0.61
4:Q:987:SER:O	4:Q:987:SER:OG	2.14	0.61
6:V:293:HIS:HB3	7:W:359:ASN:HD21	1.63	0.61
1:Z:814:MET:HA	1:Z:817:ALA:HB3	1.82	0.61
1:A:557:LEU:HG	1:A:579:LEU:HD11	1.83	0.61
4:E:982:ILE:HG22	4:E:982:ILE:O	2.01	0.61
5:F:195:GLN:NE2	5:F:232:TYR:O	2.33	0.61
5:F:1653:LYS:HG2	5:F:1655:SER:H	1.66	0.61
6:J:327:LYS:O	6:J:331:LYS:HG3	2.01	0.61
7:K:317:ASN:HA	7:K:346:GLN:HB3	1.82	0.61
1:N:814:MET:CB	1:N:833:ILE:HD12	2.28	0.61
2:O:811:LEU:HD11	2:O:867:LEU:HD21	1.83	0.61
5:R:1305:SER:C	5:R:1307:VAL:H	2.03	0.61
6:V:371:LYS:O	6:V:371:LYS:HD2	2.00	0.61
7:W:295:CYS:O	7:W:299:TRP:HB2	2.00	0.61
1:Z:459:LEU:O	1:Z:463:GLN:HB2	2.01	0.61
7:K:298:SER:CA	7:K:306:THR:HA	2.27	0.61
7:K:523:LEU:O	7:K:527:LEU:CB	2.49	0.61
1:M:742:LEU:HD13	1:M:744:LEU:HD12	1.82	0.61
1:M:772:PRO:CA	1:M:828:THR:CG2	2.72	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:814:MET:HA	1:N:817:ALA:HB3	1.82	0.61
3:P:518:GLU:HA	3:P:536:ILE:HD12	1.82	0.61
3:P:932:ILE:HG23	3:P:933:ILE:HG13	1.82	0.61
3:P:1134:SER:CB	1:Z:206:ASN:HD22	2.12	0.61
6:V:315:LEU:HD23	8:X:679:LEU:HG	1.81	0.61
5:F:690:GLU:HG3	8:I:722:LEU:HG	1.82	0.61
8:I:739:GLN:C	8:I:741:ARG:H	1.97	0.61
7:K:385:GLN:HE21	7:K:385:GLN:CA	2.12	0.61
5:R:1156:TYR:O	5:R:1159:GLN:N	2.33	0.61
6:V:433:LYS:N	7:W:499:GLY:CA	2.63	0.61
1:Z:46:ILE:HD12	1:Z:46:ILE:C	2.21	0.61
3:D:1241:GLY:CA	1:Z:826:ARG:O	2.48	0.60
6:J:325:TYR:HE2	7:K:390:HIS:CA	1.96	0.60
6:J:371:LYS:O	6:J:371:LYS:HD2	2.00	0.60
1:N:753:ALA:CB	1:N:815:ILE:O	2.29	0.60
1:Z:753:ALA:HA	1:Z:816:TYR:HA	1.71	0.60
3:D:237:THR:O	3:D:266:GLN:HA	2.01	0.60
5:F:227:ASP:CA	5:F:379:SER:CB	2.79	0.60
5:F:1118:ARG:HG2	5:F:1118:ARG:HH11	1.66	0.60
1:N:422:ARG:HE	1:N:424:ASN:H	1.47	0.60
1:N:501:MET:O	1:N:505:HIS:ND1	2.34	0.60
3:P:580:VAL:O	3:P:595:ASN:N	2.29	0.60
7:W:359:ASN:O	7:W:363:GLN:HG2	2.00	0.60
3:D:421:VAL:HG22	3:D:491:ARG:HB3	1.82	0.60
3:D:454:ARG:HB3	3:D:455:PHE:CD1	2.37	0.60
5:F:759:ASP:O	5:F:773:LYS:NZ	2.34	0.60
7:K:312:VAL:HG12	7:K:361:ARG:HH21	1.66	0.60
3:P:641:VAL:HB	3:P:648:GLU:HG2	1.83	0.60
4:Q:215:GLN:NE2	4:Q:219:GLN:OE1	2.34	0.60
5:R:1032:ILE:O	5:R:1032:ILE:HG22	2.01	0.60
5:R:1139:ILE:CG1	5:R:1291:SER:OG	2.49	0.60
6:S:292:HIS:ND1	6:V:352:VAL:CG1	2.63	0.60
7:W:298:SER:CA	7:W:306:THR:HA	2.27	0.60
7:W:308:LEU:HB3	7:W:355:PHE:CE2	2.36	0.60
7:W:312:VAL:HG12	7:W:361:ARG:HH21	1.66	0.60
1:Z:56:LEU:HD22	1:Z:60:ASN:HD21	1.65	0.60
3:D:449:ASN:HD21	3:D:461:ARG:HB2	1.65	0.60
5:F:389:LEU:C	5:F:389:LEU:HD13	2.22	0.60
5:F:668:ARG:HH22	5:F:719:ILE:HA	1.66	0.60
7:H:412:ILE:HG23	7:H:415:LEU:HD23	1.67	0.60
6:J:432:LEU:CA	8:L:782:ILE:O	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:679:SER:OG	4:Q:680:ASP:N	2.34	0.60
5:R:332:VAL:HG13	5:R:335:ASP:HA	1.84	0.60
5:R:603:GLU:HA	5:R:606:VAL:HG12	1.82	0.60
5:R:1435:LYS:NZ	5:R:1484:ARG:HH22	2.00	0.60
6:S:427:GLU:CB	8:U:779:THR:HG21	2.31	0.60
7:T:436:MET:O	7:T:440:PHE:HB3	2.02	0.60
8:X:702:ARG:O	8:X:706:GLU:OE1	2.20	0.60
3:D:927:LEU:HD13	3:D:973:ARG:HH22	1.66	0.60
3:D:1493:ASN:OD1	5:F:1471:LYS:HG2	2.02	0.60
6:J:308:ILE:HD11	7:K:369:VAL:HG13	1.83	0.60
3:P:989:GLN:HA	3:P:998:ALA:HA	1.82	0.60
1:Z:777:ILE:HG23	1:Z:777:ILE:O	2.00	0.60
1:A:57:ARG:HH11	1:A:57:ARG:CG	2.08	0.60
3:D:298:TYR:CD1	3:D:311:LYS:HE2	2.37	0.60
3:D:863:ILE:CG2	3:D:887:GLN:HA	2.32	0.60
3:D:989:GLN:HA	3:D:998:ALA:HA	1.82	0.60
5:F:398:MET:O	5:F:400:THR:HG23	2.01	0.60
5:F:922:LEU:H	5:F:922:LEU:HD12	1.66	0.60
5:F:1435:LYS:HE2	5:F:1484:ARG:HH21	1.65	0.60
7:H:386:LEU:O	8:I:690:GLN:NE2	2.33	0.60
7:H:450:PRO:O	7:H:454:GLY:N	2.35	0.60
1:N:255:GLU:O	1:N:259:ILE:HG13	2.02	0.60
1:N:287:ASP:HA	1:N:290:TYR:HB3	1.84	0.60
2:O:318:ILE:H	2:O:318:ILE:CD1	1.96	0.60
3:P:454:ARG:HB3	3:P:455:PHE:CD1	2.36	0.60
5:R:1116:VAL:HG21	5:R:1150:PHE:HZ	1.67	0.60
6:V:390:ILE:O	6:V:394:ILE:CG2	2.31	0.60
7:W:529:LYS:HD2	7:W:529:LYS:C	2.21	0.60
3:D:1467:SER:HA	1:Z:621:HIS:HE1	1.67	0.60
5:F:303:LYS:O	5:F:307:ASP:HB2	2.00	0.60
7:H:436:MET:O	7:H:440:PHE:HB3	2.02	0.60
7:K:308:LEU:HB3	7:K:355:PHE:CE2	2.37	0.60
8:L:776:PHE:HA	8:L:779:THR:CB	2.32	0.60
1:M:236:ASN:ND2	1:M:261:GLU:OE1	2.35	0.60
3:P:353:GLN:HB3	3:P:372:SER:HB2	1.84	0.60
3:P:470:SER:HB3	3:P:475:GLU:HG2	1.82	0.60
3:P:789:VAL:HG11	3:P:952:LEU:HD11	1.84	0.60
5:R:405:ARG:NH1	5:R:407:ASN:HB3	2.17	0.60
6:S:295:LYS:CB	6:V:363:LYS:NZ	2.65	0.60
1:Z:218:ILE:HD11	1:Z:241:ILE:HD12	1.84	0.60
1:Z:287:ASP:HA	1:Z:290:TYR:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:510:LEU:HD22	1:A:515:LEU:HD22	1.82	0.60
3:D:789:VAL:HG11	3:D:952:LEU:HD11	1.84	0.60
4:E:1620:THR:HB	4:E:1623:GLU:HB2	1.84	0.60
7:K:321:ALA:N	7:K:348:ILE:CD1	2.39	0.60
3:P:863:ILE:CG2	3:P:887:GLN:HA	2.32	0.60
5:R:334:GLN:HE21	5:R:859:LYS:HZ2	0.76	0.60
5:R:1349:PHE:N	5:R:1349:PHE:CD1	2.70	0.60
6:V:357:LEU:HB3	7:W:423:LYS:HE3	0.67	0.60
1:A:208:LEU:O	1:A:212:PHE:HB2	2.02	0.60
1:A:613:VAL:HG11	1:A:619:PHE:HB2	1.84	0.60
4:E:210:ASN:CA	4:E:213:PHE:CB	2.76	0.60
5:F:29:LEU:HD13	5:F:134:LEU:HG	1.84	0.60
5:F:332:VAL:HG13	5:F:335:ASP:HA	1.84	0.60
5:F:739:ARG:NH2	5:F:813:GLU:OE2	2.33	0.60
5:F:920:ILE:HB	5:F:924:ALA:C	2.21	0.60
5:F:1157:TRP:CD1	5:F:1160:TYR:HE1	2.20	0.60
7:H:361:ARG:NH2	8:I:666:ASP:OD2	2.35	0.60
8:L:702:ARG:O	8:L:706:GLU:OE1	2.20	0.60
1:N:393:GLU:HA	1:N:396:GLN:HG2	1.84	0.60
3:P:1493:ASN:OD1	5:R:1471:LYS:HG2	2.02	0.60
5:R:389:LEU:HD13	5:R:389:LEU:C	2.22	0.60
5:R:1216:PHE:CE2	5:R:1282:ALA:HB1	2.29	0.60
1:Z:751:LEU:C	1:Z:753:ALA:H	2.03	0.60
1:A:236:ASN:ND2	1:A:261:GLU:OE1	2.35	0.60
3:D:713:ILE:HD12	3:D:769:ARG:HD3	1.83	0.60
5:F:1349:PHE:N	5:F:1349:PHE:CD1	2.70	0.60
3:P:242:MET:SD	3:P:298:TYR:HD2	2.17	0.60
5:R:51:LEU:HD23	5:R:71:ILE:HG13	1.84	0.60
5:R:841:PHE:HD2	5:R:918:PHE:HE1	0.69	0.60
5:R:920:ILE:HB	5:R:924:ALA:C	2.21	0.60
5:R:1093:SER:O	5:R:1096:LEU:CB	2.50	0.60
6:V:432:LEU:CA	8:X:782:ILE:O	2.50	0.60
5:F:1561:LEU:HD22	5:R:1667:VAL:CG2	2.13	0.59
1:M:557:LEU:HG	1:M:579:LEU:HD11	1.83	0.59
1:M:589:LEU:HA	1:M:603:VAL:HG22	1.83	0.59
3:P:449:ASN:HD21	3:P:461:ARG:HB2	1.65	0.59
5:R:1014:SER:H	8:U:788:ASP:H	1.49	0.59
1:Z:227:GLN:NE2	1:Z:606:GLU:O	2.30	0.59
2:C:811:LEU:HD11	2:C:867:LEU:HD21	1.83	0.59
5:F:1032:ILE:HG22	5:F:1032:ILE:O	2.01	0.59
6:G:292:HIS:ND1	6:J:352:VAL:CG1	2.63	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:351:SER:O	6:J:355:GLN:NE2	2.35	0.59
7:K:444:LEU:HA	7:K:447:SER:CB	2.32	0.59
1:M:510:LEU:HD22	1:M:515:LEU:HD22	1.82	0.59
4:Q:1620:THR:HB	4:Q:1623:GLU:HB2	1.84	0.59
5:R:323:LEU:HD11	5:R:483:LEU:HD23	1.84	0.59
5:R:690:GLU:CD	8:U:722:LEU:HD23	2.19	0.59
5:R:1118:ARG:HG2	5:R:1118:ARG:HH11	1.66	0.59
7:T:450:PRO:O	7:T:454:GLY:N	2.35	0.59
7:W:444:LEU:HA	7:W:447:SER:CB	2.32	0.59
8:X:776:PHE:HA	8:X:779:THR:CB	2.32	0.59
1:Z:501:MET:O	1:Z:505:HIS:ND1	2.34	0.59
1:A:128:LEU:CG	4:E:1260:TYR:CE2	2.86	0.59
1:A:193:LEU:HA	1:A:539:ALA:HB1	1.84	0.59
1:A:590:LEU:HD23	1:A:604:ILE:HG21	1.84	0.59
5:F:334:GLN:NE2	5:F:859:LYS:CD	2.65	0.59
5:R:1303:LEU:HD22	5:R:1303:LEU:C	2.23	0.59
5:R:1538:LEU:HD11	5:R:1543:LEU:HD23	1.84	0.59
1:A:814:MET:CG	1:A:833:ILE:CG1	2.81	0.59
5:F:633:LYS:HZ2	5:F:635:PHE:HB2	1.66	0.59
5:F:661:VAL:O	5:F:667:SER:OG	2.21	0.59
5:F:837:TYR:CG	5:F:918:PHE:CE2	2.90	0.59
5:F:1139:ILE:CG1	5:F:1291:SER:OG	2.49	0.59
1:M:208:LEU:O	1:M:212:PHE:HB2	2.02	0.59
4:E:757:LYS:HG3	5:F:1195:PHE:HB2	1.84	0.59
4:E:793:LEU:HD11	4:E:1162:LEU:HD21	1.84	0.59
5:F:235:PRO:O	5:F:239:HIS:ND1	2.35	0.59
5:F:510:PHE:HA	5:F:513:TRP:HB3	1.85	0.59
6:G:295:LYS:CB	6:J:363:LYS:NZ	2.65	0.59
7:K:379:ILE:HG21	8:L:680:TYR:CE1	2.38	0.59
1:M:193:LEU:HA	1:M:539:ALA:HB1	1.84	0.59
3:P:507:LEU:HG	3:P:512:LYS:HB3	1.85	0.59
4:Q:1319:LEU:CD2	4:Q:1398:VAL:CG2	2.76	0.59
6:V:327:LYS:O	6:V:331:LYS:HG3	2.01	0.59
1:Z:766:ASN:O	1:Z:769:LYS:CB	2.50	0.59
1:Z:771:ILE:HB	1:Z:772:PRO:HD2	1.84	0.59
1:A:46:ILE:HA	8:L:792:GLN:N	2.16	0.59
5:F:725:ASN:ND2	5:F:789:CYS:SG	2.76	0.59
5:F:1093:SER:O	5:F:1096:LEU:CB	2.50	0.59
1:M:123:MET:CB	6:V:413:ASN:HB3	2.32	0.59
1:N:766:ASN:O	1:N:769:LYS:CB	2.50	0.59
1:N:767:ILE:O	1:N:770:ASN:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:227:ASP:CA	5:R:379:SER:CB	2.79	0.59
5:R:492:ARG:HH12	5:R:495:TYR:H	1.51	0.59
5:R:679:ILE:O	5:R:679:ILE:HG22	2.03	0.59
5:R:837:TYR:CG	5:R:918:PHE:CE2	2.90	0.59
5:R:1356:LEU:HG	5:R:1356:LEU:O	2.03	0.59
1:Z:531:ASP:OD2	1:Z:540:ASN:ND2	2.36	0.59
1:A:775:LEU:CG	1:A:832:LEU:HD11	2.33	0.59
1:A:814:MET:HG2	1:A:833:ILE:CD1	2.28	0.59
4:E:987:SER:O	4:E:987:SER:OG	2.15	0.59
5:F:405:ARG:NH1	5:F:407:ASN:HB3	2.17	0.59
5:F:1084:LEU:CA	5:F:1156:TYR:CZ	2.85	0.59
1:M:21:LYS:HE3	1:Z:27:GLU:HG2	1.85	0.59
5:R:510:PHE:HA	5:R:513:TRP:HB3	1.85	0.59
6:S:470:LEU:CB	7:T:538:LYS:HZ1	2.03	0.59
3:D:268:ILE:HG21	3:D:284:PHE:CE2	2.36	0.59
5:F:51:LEU:HD23	5:F:71:ILE:HG13	1.84	0.59
5:F:159:LYS:HZ2	5:F:363:ASP:CB	2.14	0.59
6:J:324:GLN:OE1	6:J:328:GLN:NE2	2.35	0.59
1:M:814:MET:CG	1:M:833:ILE:CG1	2.81	0.59
1:N:218:ILE:HD11	1:N:241:ILE:HD12	1.84	0.59
2:O:786:THR:CB	2:O:789:ASP:OD2	2.50	0.59
5:R:1129:ASN:OD1	5:R:1132:GLU:N	2.36	0.59
5:R:1467:ALA:HB1	5:R:1473:ASN:HB3	1.84	0.59
5:R:1468:ASN:ND2	5:R:1530:GLU:OE1	2.36	0.59
8:U:737:ASN:OD1	8:U:738:ASP:CG	2.41	0.59
3:D:641:VAL:HB	3:D:648:GLU:HG2	1.83	0.59
4:E:1031:LYS:NZ	4:E:1084:LEU:O	2.36	0.59
5:F:935:GLN:CB	5:F:998:LEU:HD23	2.33	0.59
4:Q:757:LYS:HG3	5:R:1195:PHE:HB2	1.85	0.59
5:R:1434:SER:OG	5:R:1435:LYS:N	2.36	0.59
6:S:295:LYS:HD3	6:V:363:LYS:HZ3	1.67	0.59
7:W:518:ARG:HB2	7:W:518:ARG:NH1	2.05	0.59
1:Z:393:GLU:HA	1:Z:396:GLN:HG2	1.84	0.59
2:C:121:LEU:HD23	2:C:123:TYR:CZ	2.38	0.59
2:C:786:THR:CB	2:C:789:ASP:OD2	2.50	0.59
3:D:744:SER:HA	3:D:758:ASP:CB	2.33	0.59
5:F:323:LEU:HD11	5:F:483:LEU:HD23	1.85	0.59
5:R:2:LYS:HG2	5:R:7:PRO:HG2	1.84	0.59
5:R:29:LEU:HD13	5:R:134:LEU:HG	1.84	0.59
5:R:1157:TRP:CD1	5:R:1160:TYR:HE1	2.20	0.59
5:R:1246:MET:CB	5:R:1279:CYS:CB	2.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1473:ASN:OD1	5:R:1476:LEU:N	2.34	0.59
1:Z:757:ALA:CB	1:Z:819:MET:C	2.39	0.59
4:E:260:ARG:NH2	4:E:761:PHE:CE1	2.68	0.58
5:F:353:PRO:HA	5:F:393:SER:HA	1.85	0.58
5:F:1246:MET:CB	5:F:1279:CYS:CB	2.81	0.58
7:K:312:VAL:CG2	7:K:352:ILE:HG13	2.33	0.58
1:M:590:LEU:HD23	1:M:604:ILE:HG21	1.84	0.58
1:N:771:ILE:HB	1:N:772:PRO:HD2	1.84	0.58
3:P:298:TYR:CD1	3:P:311:LYS:HE2	2.37	0.58
4:Q:258:ILE:O	4:Q:261:ILE:N	2.35	0.58
5:R:235:PRO:O	5:R:239:HIS:ND1	2.35	0.58
5:R:334:GLN:NE2	5:R:859:LYS:CD	2.66	0.58
5:R:661:VAL:O	5:R:667:SER:OG	2.21	0.58
5:R:883:VAL:O	8:U:761:ASN:CG	2.41	0.58
6:V:324:GLN:OE1	6:V:328:GLN:NE2	2.35	0.58
1:Z:767:ILE:O	1:Z:770:ASN:N	2.36	0.58
1:A:123:MET:CB	6:J:413:ASN:HB3	2.32	0.58
6:G:449:LEU:HA	1:Z:84:ASP:OD2	2.03	0.58
6:J:388:CYS:SG	7:K:453:LEU:O	2.61	0.58
1:M:92:THR:O	6:V:401:ILE:HD12	2.03	0.58
1:M:613:VAL:HG11	1:M:619:PHE:HB2	1.84	0.58
1:N:621:HIS:CE1	3:P:1467:SER:HA	2.38	0.58
3:P:1020:ASN:HB2	1:Z:251:ALA:CA	2.32	0.58
4:Q:793:LEU:HD11	4:Q:1162:LEU:HD21	1.84	0.58
5:R:725:ASN:ND2	5:R:789:CYS:SG	2.76	0.58
5:R:914:ASP:CB	5:R:917:PHE:HB3	2.33	0.58
5:R:1031:VAL:CB	6:S:314:TYR:HB3	2.34	0.58
1:A:589:LEU:HA	1:A:603:VAL:HG22	1.83	0.58
3:D:1140:LYS:HZ2	1:N:204:GLU:CG	2.15	0.58
5:F:492:ARG:HH12	5:F:495:TYR:H	1.51	0.58
5:F:746:LYS:HD2	5:F:898:TYR:H	1.69	0.58
6:G:401:ILE:O	6:G:405:LEU:HB2	2.03	0.58
8:I:795:LYS:HZ2	8:I:795:LYS:C	2.04	0.58
1:N:531:ASP:OD2	1:N:540:ASN:ND2	2.36	0.58
1:A:21:LYS:HD3	1:A:24:GLU:HG3	1.85	0.58
3:D:491:ARG:HG3	3:D:521:LYS:HB2	1.85	0.58
4:E:267:ILE:HA	4:E:270:ILE:HD12	1.85	0.58
5:F:679:ILE:O	5:F:679:ILE:HG22	2.03	0.58
5:F:883:VAL:O	8:I:761:ASN:CG	2.42	0.58
5:F:1492:LEU:O	5:F:1495:THR:OG1	2.22	0.58
7:K:429:LEU:HD12	7:K:429:LEU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:L:793:LEU:O	8:L:796:ILE:N	2.37	0.58
1:N:810:ALA:CB	1:N:835:ILE:O	2.51	0.58
3:P:298:TYR:HE1	3:P:311:LYS:CE	2.17	0.58
4:Q:267:ILE:HA	4:Q:270:ILE:HD12	1.85	0.58
6:V:463:LYS:HE3	7:W:526:VAL:CG1	2.28	0.58
1:A:440:LEU:HA	1:A:443:ILE:HD12	1.85	0.58
3:D:507:LEU:HG	3:D:512:LYS:HB3	1.85	0.58
3:D:860:ILE:CG2	3:D:893:ILE:HG13	2.33	0.58
5:F:2:LYS:HG2	5:F:7:PRO:HG2	1.84	0.58
5:F:1031:VAL:CB	6:G:314:TYR:HB3	2.34	0.58
5:F:1303:LEU:HD22	5:F:1303:LEU:C	2.23	0.58
1:M:128:LEU:CG	4:Q:1260:TYR:CE2	2.86	0.58
1:M:391:HIS:NE2	1:M:416:GLY:O	2.33	0.58
3:P:528:PRO:HG3	3:P:624:PHE:HE2	1.67	0.58
4:Q:1022:TYR:CZ	4:Q:1026:THR:HG22	2.37	0.58
6:V:308:ILE:HD11	7:W:369:VAL:HG13	1.83	0.58
7:W:379:ILE:HG21	8:X:680:TYR:CE1	2.38	0.58
3:D:353:GLN:HB3	3:D:372:SER:HB2	1.84	0.58
3:D:1467:SER:HA	1:Z:621:HIS:CE1	2.38	0.58
5:F:914:ASP:CB	5:F:917:PHE:HB3	2.34	0.58
5:F:1110:MET:HE1	5:F:1161:LEU:HD11	1.85	0.58
5:F:1116:VAL:HG21	5:F:1150:PHE:HZ	1.67	0.58
5:F:1434:SER:OG	5:F:1435:LYS:N	2.36	0.58
1:N:84:ASP:OD2	6:S:449:LEU:HA	2.03	0.58
3:P:268:ILE:HG21	3:P:284:PHE:CE2	2.36	0.58
3:P:860:ILE:CG2	3:P:893:ILE:HG13	2.33	0.58
6:V:351:SER:O	6:V:355:GLN:NE2	2.36	0.58
7:W:312:VAL:CG2	7:W:352:ILE:HG13	2.33	0.58
1:Z:421:SER:O	1:Z:423:LYS:NZ	2.37	0.58
1:Z:531:ASP:OD1	1:Z:531:ASP:N	2.36	0.58
1:Z:751:LEU:C	1:Z:753:ALA:N	2.57	0.58
5:F:199:GLY:O	5:F:203:LYS:NZ	2.37	0.58
5:F:334:GLN:CG	5:F:854:GLU:CD	2.72	0.58
5:F:1473:ASN:HB2	5:F:1475:ILE:H	1.69	0.58
6:G:295:LYS:HB3	6:J:363:LYS:HZ2	1.68	0.58
8:L:774:ASN:HD22	8:L:777:ASN:HD22	1.51	0.58
1:M:440:LEU:HA	1:M:443:ILE:HD12	1.85	0.58
5:R:334:GLN:CG	5:R:854:GLU:CD	2.72	0.58
7:W:297:GLU:HB3	7:W:304:THR:OG1	2.04	0.58
7:W:313:TYR:HD1	7:W:349:PRO:HB3	1.68	0.58
7:W:404:ARG:O	7:W:407:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:16:LYS:HD2	6:V:468:ALA:HB1	1.86	0.58
1:M:133:THR:O	1:M:135:ASP:N	2.37	0.58
1:M:559:LEU:HA	1:M:562:LEU:HD13	1.86	0.58
1:M:775:LEU:CG	1:M:832:LEU:HD11	2.33	0.58
2:O:121:LEU:HD23	2:O:123:TYR:CZ	2.38	0.58
4:Q:1031:LYS:NZ	4:Q:1084:LEU:O	2.36	0.58
7:T:361:ARG:NH2	8:U:666:ASP:OD2	2.35	0.58
6:V:308:ILE:HB	6:V:309:PRO:HD3	1.86	0.58
7:W:446:ARG:HH22	7:W:455:LYS:HZ3	1.47	0.58
3:D:119:PRO:HB3	3:D:739:THR:HG22	1.85	0.58
3:D:853:PHE:CE2	3:D:900:VAL:HG21	2.39	0.58
5:F:1005:PHE:O	5:F:1009:ASN:HB2	2.03	0.58
5:F:1508:ILE:HA	5:F:1511:LEU:HB3	1.85	0.58
5:F:1538:LEU:HD11	5:F:1543:LEU:HD23	1.85	0.58
1:N:127:GLN:HA	1:N:127:GLN:NE2	2.16	0.58
1:N:133:THR:O	1:N:135:ASP:N	2.37	0.58
3:P:1136:ASP:HB3	1:Z:203:ASN:C	2.19	0.58
4:Q:986:SER:O	4:Q:986:SER:OG	2.22	0.58
5:R:935:GLN:CB	5:R:998:LEU:HD23	2.33	0.58
5:R:1650:GLU:OE1	5:R:1659:ASN:ND2	2.37	0.58
7:W:510:VAL:O	7:W:514:THR:OG1	2.21	0.58
1:Z:133:THR:O	1:Z:135:ASP:N	2.37	0.58
3:D:298:TYR:HE1	3:D:311:LYS:CE	2.17	0.58
3:D:753:PRO:HG2	3:D:756:LYS:HE3	1.86	0.58
5:F:28:VAL:O	5:F:32:LEU:N	2.30	0.58
5:F:1356:LEU:HG	5:F:1356:LEU:O	2.03	0.58
8:I:737:ASN:OD1	8:I:738:ASP:CG	2.41	0.58
8:I:823:LYS:HD2	8:I:823:LYS:O	2.04	0.58
6:J:332:LYS:HE3	7:K:402:GLN:HG3	1.86	0.58
7:K:313:TYR:HD1	7:K:349:PRO:HB3	1.68	0.58
1:N:252:GLN:HG2	1:N:253:LEU:HD23	1.84	0.58
3:P:328:LEU:HD11	3:P:334:VAL:HG22	1.86	0.58
5:R:552:SER:O	5:R:557:ASN:ND2	2.37	0.58
5:R:746:LYS:HD2	5:R:898:TYR:H	1.69	0.58
6:S:401:ILE:O	6:S:405:LEU:HB2	2.03	0.58
7:W:509:ILE:CG2	1:Z:12:SER:HB3	2.33	0.58
4:E:837:ASP:HB3	4:E:839:ILE:H	1.69	0.57
4:E:1022:TYR:CZ	4:E:1026:THR:HG22	2.37	0.57
5:F:1129:ASN:OD1	5:F:1132:GLU:N	2.36	0.57
5:F:1435:LYS:NZ	5:F:1484:ARG:HH22	2.00	0.57
5:F:1435:LYS:O	5:F:1439:GLU:N	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:785:ASN:CB	1:Z:112:TYR:HA	2.34	0.57
1:M:46:ILE:HA	8:X:792:GLN:N	2.16	0.57
1:N:421:SER:O	1:N:423:LYS:NZ	2.37	0.57
1:N:621:HIS:HE1	3:P:1467:SER:HA	1.67	0.57
3:P:119:PRO:HB3	3:P:739:THR:HG22	1.85	0.57
3:P:298:TYR:CE1	3:P:311:LYS:CE	2.87	0.57
3:P:799:THR:HA	3:P:803:PHE:HB2	1.85	0.57
5:R:633:LYS:HZ2	5:R:635:PHE:HB2	1.69	0.57
7:W:429:LEU:HD12	7:W:429:LEU:O	2.03	0.57
3:D:799:THR:HA	3:D:803:PHE:HB2	1.85	0.57
5:F:397:MET:N	5:F:397:MET:SD	2.77	0.57
5:F:1468:ASN:ND2	5:F:1530:GLU:OE1	2.36	0.57
7:H:397:ARG:NH2	8:I:698:GLN:OE1	2.37	0.57
1:M:417:ARG:NH2	1:M:442:LEU:O	2.38	0.57
1:N:751:LEU:C	1:N:753:ALA:N	2.57	0.57
3:P:744:SER:HA	3:P:758:ASP:CB	2.33	0.57
3:P:773:ILE:O	3:P:777:ILE:HG12	2.04	0.57
5:R:397:MET:N	5:R:397:MET:SD	2.77	0.57
6:V:402:ASP:C	6:V:404:ASP:H	2.08	0.57
1:A:706:ILE:HB	1:A:711:LYS:HE2	1.86	0.57
7:H:418:GLN:HE22	8:I:718:THR:CG2	2.03	0.57
7:K:444:LEU:O	7:K:447:SER:N	2.38	0.57
7:K:513:LEU:HD11	8:L:800:HIS:ND1	2.20	0.57
5:R:590:ILE:HG13	5:R:591:ASP:H	1.70	0.57
5:R:909:LEU:O	7:T:403:SER:HB2	2.05	0.57
5:R:1084:LEU:CA	5:R:1156:TYR:CZ	2.85	0.57
5:R:1118:ARG:HG2	5:R:1118:ARG:NH1	2.19	0.57
7:W:321:ALA:C	7:W:348:ILE:CD1	2.69	0.57
7:W:400:LYS:HD2	7:W:400:LYS:C	2.20	0.57
1:Z:44:VAL:O	1:Z:47:ASN:N	2.37	0.57
1:A:133:THR:O	1:A:135:ASP:N	2.37	0.57
3:D:328:LEU:HD11	3:D:334:VAL:HG22	1.87	0.57
5:F:1063:ILE:HG22	5:F:1063:ILE:O	2.05	0.57
5:F:1467:ALA:HB1	5:F:1473:ASN:HB3	1.84	0.57
8:L:765:LEU:O	8:L:769:ILE:HB	2.03	0.57
3:P:449:ASN:HB3	3:P:463:GLU:HG2	1.86	0.57
3:P:515:VAL:HB	3:P:604:PRO:CG	2.35	0.57
5:R:353:PRO:O	5:R:356:ILE:CG2	2.53	0.57
5:R:579:ARG:HH11	5:R:698:ASN:HB3	1.70	0.57
5:R:1063:ILE:O	5:R:1063:ILE:HG22	2.05	0.57
5:R:1110:MET:HE1	5:R:1161:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:25:LEU:O	1:Z:25:LEU:HD22	2.05	0.57
1:A:559:LEU:HA	1:A:562:LEU:HD13	1.86	0.57
3:D:832:VAL:H	3:D:929:PHE:HE2	1.52	0.57
4:E:262:SER:O	4:E:265:PHE:HB2	2.03	0.57
4:E:888:TYR:O	4:E:897:LYS:NZ	2.37	0.57
5:F:579:ARG:HH11	5:F:698:ASN:HB3	1.69	0.57
5:F:1606:GLN:HB3	1:Z:141:ASN:ND2	2.19	0.57
1:M:706:ILE:HB	1:M:711:LYS:HE2	1.86	0.57
1:N:23:ASN:C	1:N:25:LEU:H	2.08	0.57
3:P:242:MET:O	3:P:259:THR:OG1	2.21	0.57
3:P:491:ARG:HG3	3:P:521:LYS:HB2	1.86	0.57
5:R:750:TRP:NE1	5:R:754:ASP:HB2	2.20	0.57
5:R:1005:PHE:O	5:R:1009:ASN:HB2	2.03	0.57
5:R:1559:LEU:HD12	5:R:1559:LEU:O	2.04	0.57
7:T:397:ARG:NH2	8:U:698:GLN:OE1	2.38	0.57
8:U:823:LYS:O	8:U:823:LYS:HD2	2.04	0.57
6:V:332:LYS:HE3	7:W:402:GLN:HG3	1.86	0.57
1:Z:824:MET:HB2	1:Z:825:PRO:CD	2.30	0.57
3:D:515:VAL:HB	3:D:604:PRO:CG	2.35	0.57
5:F:552:SER:O	5:F:557:ASN:ND2	2.37	0.57
5:F:1558:ASP:CB	5:R:1680:GLN:NE2	2.67	0.57
1:M:435:TRP:HA	1:M:438:MET:SD	2.44	0.57
4:Q:1611:TYR:O	4:Q:1615:ARG:HB2	2.04	0.57
5:R:712:LEU:HG	5:R:716:LEU:CD2	2.35	0.57
5:R:1431:ARG:HD2	5:R:1474:PHE:H	1.70	0.57
5:R:1508:ILE:HA	5:R:1511:LEU:HB3	1.85	0.57
6:V:389:ARG:NH2	6:V:393:ASP:OD2	2.37	0.57
1:Z:810:ALA:CB	1:Z:835:ILE:O	2.51	0.57
5:F:712:LEU:HG	5:F:716:LEU:CD2	2.35	0.57
5:F:712:LEU:HG	5:F:716:LEU:HD23	1.86	0.57
5:F:841:PHE:CD2	5:F:918:PHE:CD1	2.89	0.57
7:H:397:ARG:HB2	8:I:697:LEU:HD21	1.86	0.57
7:H:426:GLY:HA3	8:I:736:ASN:N	2.18	0.57
1:N:46:ILE:CB	6:S:327:LYS:HZ3	1.89	0.57
1:N:80:PHE:N	1:N:80:PHE:CD1	2.73	0.57
5:R:389:LEU:H	5:R:389:LEU:CD1	2.16	0.57
8:U:822:LYS:HZ1	8:U:822:LYS:CA	2.13	0.57
1:A:417:ARG:NH2	1:A:442:LEU:O	2.38	0.57
3:D:298:TYR:CE1	3:D:311:LYS:CE	2.87	0.57
4:E:216:TYR:HD1	4:E:220:PHE:HB2	1.70	0.57
1:N:334:TRP:HA	1:N:337:ILE:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:531:ASP:N	1:N:531:ASP:OD1	2.36	0.57
4:Q:837:ASP:HB3	4:Q:839:ILE:H	1.69	0.57
5:R:702:LYS:HA	5:R:767:ILE:HD11	1.86	0.57
5:R:1403:SER:OG	5:R:1451:THR:O	2.22	0.57
5:R:1492:LEU:O	5:R:1495:THR:OG1	2.22	0.57
7:T:397:ARG:HB2	8:U:697:LEU:HD21	1.86	0.57
3:D:611:LEU:CD1	3:D:640:ALA:HB2	2.34	0.57
3:D:853:PHE:HE2	3:D:900:VAL:HG21	1.70	0.57
5:F:1118:ARG:HH11	5:F:1118:ARG:CG	2.18	0.57
5:F:1650:GLU:OE1	5:F:1659:ASN:ND2	2.37	0.57
6:G:402:ASP:OD2	7:H:462:ARG:NH1	2.38	0.57
7:K:404:ARG:O	7:K:407:GLU:N	2.37	0.57
8:L:799:SER:O	8:L:803:ALA:HB3	2.05	0.57
3:P:403:GLY:O	3:P:408:ARG:NE	2.37	0.57
3:P:971:ILE:CD1	3:P:984:THR:HB	2.29	0.57
4:Q:888:TYR:O	4:Q:897:LYS:NZ	2.37	0.57
5:R:1123:ASN:HB3	5:R:1143:SER:OG	2.05	0.57
5:R:1550:LEU:HD21	5:R:1552:PHE:HZ	1.66	0.57
5:R:1598:PHE:HA	5:R:1601:ILE:HB	1.86	0.57
3:D:485:GLN:HA	3:D:577:PHE:CZ	2.40	0.57
4:E:358:VAL:HG13	4:E:359:LEU:HG	1.87	0.57
5:F:702:LYS:HA	5:F:767:ILE:HD11	1.87	0.57
8:I:822:LYS:HZ2	8:I:822:LYS:CA	2.17	0.57
6:J:308:ILE:HB	6:J:309:PRO:HD3	1.86	0.57
7:K:427:LEU:N	7:K:428:PRO:HD3	2.20	0.57
1:N:112:TYR:HA	8:U:785:ASN:CB	2.35	0.57
3:P:853:PHE:CE2	3:P:900:VAL:HG21	2.39	0.57
4:Q:812:SER:O	4:Q:872:ASN:ND2	2.38	0.57
5:R:353:PRO:HA	5:R:393:SER:HA	1.85	0.57
7:T:358:LEU:O	7:T:362:ASN:ND2	2.38	0.57
7:W:509:ILE:HG21	1:Z:12:SER:CB	2.34	0.57
3:D:535:VAL:HB	3:D:575:LYS:HB2	1.87	0.56
3:D:970:ILE:HG23	3:D:975:ILE:HD12	1.87	0.56
4:E:972:LEU:HD23	4:E:995:LEU:HD11	1.86	0.56
4:E:1611:TYR:O	4:E:1615:ARG:HB2	2.04	0.56
5:F:353:PRO:O	5:F:356:ILE:CG2	2.53	0.56
5:F:750:TRP:NE1	5:F:754:ASP:HB2	2.20	0.56
5:F:1014:SER:H	8:I:788:ASP:H	1.49	0.56
5:F:1118:ARG:HG2	5:F:1118:ARG:NH1	2.19	0.56
5:F:1666:MET:O	5:F:1670:ILE:HB	2.05	0.56
8:I:818:ILE:HD13	8:I:818:ILE:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:607:ARG:HD2	1:M:610:LEU:HD12	1.87	0.56
1:N:751:LEU:C	1:N:753:ALA:H	2.03	0.56
3:P:832:VAL:H	3:P:929:PHE:HE2	1.52	0.56
5:R:199:GLY:O	5:R:203:LYS:NZ	2.37	0.56
5:R:1251:ARG:NH2	5:R:1276:ASP:CB	2.66	0.56
5:R:1473:ASN:HB2	5:R:1475:ILE:H	1.69	0.56
6:V:391:LEU:HD13	7:W:455:LYS:HA	1.86	0.56
8:X:765:LEU:O	8:X:769:ILE:HB	2.03	0.56
3:D:186:ILE:HG22	3:D:189:LYS:HB2	1.87	0.56
3:D:527:SER:HB3	3:D:528:PRO:HD2	1.87	0.56
3:D:773:ILE:O	3:D:777:ILE:HG12	2.04	0.56
4:E:812:SER:O	4:E:872:ASN:ND2	2.38	0.56
1:N:766:ASN:C	1:N:770:ASN:HD22	2.09	0.56
3:P:481:LEU:HD23	3:P:488:GLN:HB3	1.86	0.56
4:Q:134:ARG:NH2	4:Q:198:MET:O	2.39	0.56
4:Q:997:VAL:O	4:Q:1001:ASN:ND2	2.38	0.56
5:R:354:ARG:HB3	5:R:354:ARG:NH1	2.20	0.56
6:S:357:LEU:O	8:U:732:ALA:C	2.44	0.56
7:T:426:GLY:HA3	8:U:736:ASN:N	2.18	0.56
6:V:309:PRO:HA	6:V:312:VAL:CG2	2.35	0.56
1:Z:12:SER:OG	1:Z:12:SER:O	2.21	0.56
1:A:751:LEU:HD22	2:C:1313:LEU:HD23	1.86	0.56
1:A:775:LEU:HB3	1:A:832:LEU:CG	2.34	0.56
3:D:242:MET:CE	3:D:298:TYR:CD2	2.88	0.56
4:E:1443:THR:O	4:E:1446:PHE:HB2	2.06	0.56
5:F:590:ILE:HG13	5:F:591:ASP:H	1.70	0.56
5:F:1038:LEU:C	5:F:1040:THR:N	2.45	0.56
5:F:1403:SER:OG	5:F:1451:THR:O	2.22	0.56
7:H:358:LEU:O	7:H:362:ASN:ND2	2.38	0.56
6:J:309:PRO:HA	6:J:312:VAL:CG2	2.35	0.56
1:N:22:LEU:O	1:N:25:LEU:HB3	2.04	0.56
3:P:186:ILE:HG22	3:P:189:LYS:HB2	1.87	0.56
3:P:242:MET:CE	3:P:298:TYR:CD2	2.88	0.56
3:P:985:ALA:O	3:P:988:LEU:CB	2.54	0.56
4:Q:210:ASN:CA	4:Q:213:PHE:CB	2.76	0.56
5:R:537:PRO:HA	5:R:622:GLN:HB3	1.86	0.56
5:R:1118:ARG:HH11	5:R:1118:ARG:CG	2.18	0.56
8:U:778:LYS:HD3	8:U:778:LYS:C	2.26	0.56
8:U:818:ILE:HD13	8:U:818:ILE:N	2.20	0.56
6:V:325:TYR:HE2	7:W:390:HIS:CA	1.97	0.56
7:W:311:PHE:CD2	7:W:341:LYS:NZ	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:X:774:ASN:HD22	8:X:777:ASN:HD22	1.51	0.56
8:X:799:SER:O	8:X:803:ALA:HB3	2.05	0.56
1:Z:80:PHE:CD1	1:Z:80:PHE:N	2.73	0.56
1:Z:253:LEU:HD23	1:Z:253:LEU:N	2.20	0.56
1:Z:277:TYR:O	1:Z:280:GLN:NE2	2.37	0.56
3:D:449:ASN:HB3	3:D:463:GLU:HG2	1.86	0.56
3:D:481:LEU:HD23	3:D:488:GLN:HB3	1.87	0.56
3:D:606:GLN:N	3:D:642:LEU:O	2.36	0.56
4:E:989:ASP:O	4:E:992:SER:N	2.35	0.56
4:E:1398:VAL:O	4:E:1398:VAL:CG1	2.42	0.56
5:F:1270:GLN:O	5:F:1274:ASP:HB2	2.06	0.56
7:K:297:GLU:HB3	7:K:304:THR:OG1	2.04	0.56
1:N:409:LEU:O	1:N:413:LYS:HB2	2.05	0.56
1:N:453:VAL:HG21	4:Q:1356:LEU:HB2	1.88	0.56
2:O:1258:GLN:CG	2:O:1299:LYS:HE3	2.36	0.56
3:P:535:VAL:HB	3:P:575:LYS:HB2	1.87	0.56
5:R:661:VAL:HG11	5:R:712:LEU:HD12	1.87	0.56
6:S:402:ASP:OD2	7:T:462:ARG:NH1	2.38	0.56
6:V:433:LYS:CB	7:W:499:GLY:CA	2.81	0.56
8:X:793:LEU:O	8:X:796:ILE:N	2.37	0.56
1:Z:692:MET:O	1:Z:696:TYR:HB2	2.06	0.56
1:A:435:TRP:HA	1:A:438:MET:SD	2.44	0.56
3:D:441:VAL:HA	3:D:490:LYS:HB2	1.87	0.56
4:E:997:VAL:O	4:E:1001:ASN:ND2	2.38	0.56
5:F:620:THR:HG23	5:F:627:VAL:HG21	1.87	0.56
5:F:1123:ASN:HB3	5:F:1143:SER:OG	2.05	0.56
5:F:1431:ARG:HD2	5:F:1474:PHE:H	1.70	0.56
1:M:779:LEU:C	1:M:835:ILE:CB	2.74	0.56
3:P:508:LYS:HB3	3:P:516:LEU:HA	1.87	0.56
3:P:611:LEU:CD1	3:P:640:ALA:HB2	2.35	0.56
4:Q:928:SER:HA	4:Q:931:PHE:HB2	1.88	0.56
5:R:869:VAL:HA	5:R:872:ILE:HD12	1.87	0.56
5:R:1092:THR:O	5:R:1092:THR:OG1	2.23	0.56
8:X:640:LEU:HD13	8:X:643:LYS:HG2	1.88	0.56
1:Z:409:LEU:O	1:Z:413:LYS:HB2	2.04	0.56
1:Z:638:TYR:HA	1:Z:641:ILE:HG22	1.88	0.56
3:D:398:ILE:O	3:D:402:ILE:HG12	2.06	0.56
3:D:654:THR:HB	3:D:655:PRO:HD2	1.87	0.56
4:E:765:PHE:HB3	4:E:843:LEU:HD22	1.88	0.56
4:E:986:SER:OG	4:E:986:SER:O	2.22	0.56
6:G:295:LYS:CB	6:J:363:LYS:HZ2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:84:ASP:CG	6:S:449:LEU:HA	2.26	0.56
1:N:289:LEU:HD21	1:N:312:LYS:HG2	1.88	0.56
1:N:692:MET:O	1:N:696:TYR:HB2	2.06	0.56
3:P:402:ILE:HG13	3:P:406:THR:HB	1.88	0.56
3:P:654:THR:HB	3:P:655:PRO:HD2	1.87	0.56
3:P:753:PRO:HG2	3:P:756:LYS:HE3	1.87	0.56
5:R:657:ILE:HG12	5:R:660:LEU:HD13	1.87	0.56
5:R:1068:ILE:O	5:R:1068:ILE:HG22	2.05	0.56
5:R:1501:SER:OG	5:R:1502:THR:N	2.38	0.56
6:V:305:ILE:HD11	8:X:668:VAL:CG1	2.35	0.56
1:A:27:GLU:CG	6:J:467:LEU:HD21	2.35	0.56
5:F:333:GLU:HA	5:F:420:THR:CB	2.36	0.56
5:F:537:PRO:HA	5:F:622:GLN:HB3	1.86	0.56
5:F:661:VAL:HG11	5:F:712:LEU:HD12	1.87	0.56
5:F:668:ARG:HD2	5:F:716:LEU:HD13	1.88	0.56
6:J:296:ALA:O	6:J:299:ILE:HG12	2.06	0.56
6:J:319:GLU:HA	6:J:322:THR:CG2	2.36	0.56
3:P:853:PHE:HE2	3:P:900:VAL:HG21	1.70	0.56
3:P:915:GLU:OE2	3:P:980:SER:OG	2.23	0.56
5:R:28:VAL:O	5:R:32:LEU:N	2.30	0.56
5:R:159:LYS:CE	5:R:363:ASP:HA	2.26	0.56
5:R:1595:VAL:O	5:R:1599:GLU:HB2	2.06	0.56
1:Z:334:TRP:HA	1:Z:337:ILE:HD12	1.87	0.56
1:A:643:LEU:O	1:A:647:ALA:N	2.38	0.56
5:F:909:LEU:O	7:H:403:SER:HB2	2.05	0.56
5:F:1063:ILE:HB	5:F:1066:ASP:HB3	1.87	0.56
8:I:778:LYS:HD3	8:I:778:LYS:C	2.26	0.56
8:L:658:TYR:O	8:L:662:ILE:HG22	2.06	0.56
1:M:16:LYS:CG	6:V:468:ALA:HB1	2.35	0.56
1:M:46:ILE:HA	8:X:792:GLN:CB	2.36	0.56
1:M:814:MET:CG	1:M:833:ILE:HG12	2.35	0.56
3:P:164:PHE:HA	3:P:186:ILE:HD12	1.88	0.56
3:P:1137:ASP:CA	1:Z:205:ASN:HA	2.36	0.56
4:Q:358:VAL:HG13	4:Q:359:LEU:HG	1.87	0.56
5:R:1067:ASN:HD22	5:R:1069:ASP:HB2	1.71	0.56
5:R:1286:PHE:O	5:R:1286:PHE:HD1	1.89	0.56
5:R:1498:LEU:HG	5:R:1514:GLU:HB3	1.88	0.56
5:R:1550:LEU:HD13	5:R:1552:PHE:CE1	2.40	0.56
5:R:1666:MET:O	5:R:1670:ILE:HB	2.05	0.56
7:T:309:ARG:NE	7:T:353:TYR:OH	2.38	0.56
6:V:403:THR:HG23	6:V:403:THR:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1388:HIS:C	4:E:1331:LEU:HD11	2.26	0.56
4:E:277:THR:HG22	4:E:381:VAL:HG21	1.88	0.56
4:E:1644:ILE:HD13	4:E:1647:LEU:HD21	1.86	0.56
5:F:657:ILE:HG12	5:F:660:LEU:HD13	1.87	0.56
5:F:869:VAL:HA	5:F:872:ILE:HD12	1.87	0.56
5:F:885:GLU:HG3	5:F:885:GLU:O	2.06	0.56
5:F:1501:SER:OG	5:F:1502:THR:N	2.39	0.56
5:F:1550:LEU:HD13	5:F:1552:PHE:CE1	2.40	0.56
7:K:311:PHE:CD2	7:K:341:LYS:NZ	2.58	0.56
7:K:538:LYS:O	8:L:822:LYS:CB	2.54	0.56
1:N:254:LEU:HG	1:N:258:LYS:HZ1	1.69	0.56
3:P:527:SER:HB3	3:P:528:PRO:HD2	1.87	0.56
4:Q:723:LEU:HD23	4:Q:794:ILE:HD12	1.88	0.56
5:R:355:LEU:CD1	5:R:355:LEU:H	2.19	0.56
5:R:712:LEU:HG	5:R:716:LEU:HD23	1.86	0.56
6:S:351:SER:O	6:S:355:GLN:NE2	2.39	0.56
1:Z:289:LEU:HD21	1:Z:312:LYS:HG2	1.88	0.56
1:A:27:GLU:HG2	6:J:467:LEU:HD21	1.88	0.56
3:D:985:ALA:O	3:D:988:LEU:CB	2.54	0.56
4:E:928:SER:HA	4:E:931:PHE:HB2	1.88	0.56
5:F:354:ARG:HB3	5:F:354:ARG:NH1	2.20	0.56
5:F:825:ILE:HG22	5:F:890:VAL:HG13	1.87	0.56
5:F:1176:GLU:OE1	5:F:1176:GLU:N	2.39	0.56
5:F:1598:PHE:HA	5:F:1601:ILE:HB	1.86	0.56
6:G:351:SER:O	6:G:355:GLN:NE2	2.39	0.56
6:G:391:LEU:O	6:G:395:GLU:HB2	2.06	0.56
7:H:533:ILE:HA	7:H:536:LYS:HB2	1.87	0.56
8:L:672:GLY:HA2	8:L:675:GLN:HG2	1.87	0.56
1:N:829:TYR:CB	3:P:1237:SER:CB	2.84	0.56
3:P:605:VAL:HG13	3:P:641:VAL:HG13	1.88	0.56
4:Q:216:TYR:HD1	4:Q:220:PHE:HB2	1.70	0.56
5:R:885:GLU:HG3	5:R:885:GLU:O	2.06	0.56
5:R:1063:ILE:HB	5:R:1066:ASP:HB3	1.87	0.56
8:X:658:TYR:O	8:X:662:ILE:HG22	2.06	0.56
1:A:776:ILE:HD11	1:A:828:THR:HA	1.88	0.55
4:E:264:LEU:O	4:E:268:THR:OG1	2.23	0.55
5:F:1068:ILE:HG22	5:F:1068:ILE:O	2.05	0.55
6:G:449:LEU:HA	1:Z:84:ASP:CG	2.26	0.55
6:J:309:PRO:HA	6:J:312:VAL:HB	1.88	0.55
1:M:776:ILE:HD11	1:M:828:THR:HA	1.88	0.55
1:N:589:LEU:HA	1:N:603:VAL:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:155:ASN:HA	3:P:646:SER:CB	2.36	0.55
3:P:485:GLN:HA	3:P:577:PHE:CZ	2.40	0.55
3:P:911:ASN:HA	3:P:914:TYR:CD2	2.42	0.55
4:Q:312:ASN:ND2	4:Q:314:ASP:O	2.39	0.55
5:R:333:GLU:HA	5:R:420:THR:CB	2.35	0.55
5:R:668:ARG:HD2	5:R:716:LEU:HD13	1.88	0.55
5:R:1176:GLU:N	5:R:1176:GLU:OE1	2.39	0.55
6:S:295:LYS:CB	6:V:363:LYS:HZ2	2.19	0.55
6:V:324:GLN:OE1	6:V:327:LYS:HE3	2.06	0.55
1:Z:288:ASN:O	1:Z:292:LYS:HB2	2.06	0.55
1:A:46:ILE:HA	8:L:792:GLN:CB	2.36	0.55
3:D:710:VAL:HG22	3:D:711:VAL:H	1.71	0.55
3:D:911:ASN:HA	3:D:914:TYR:CD2	2.41	0.55
4:E:134:ARG:NH2	4:E:198:MET:O	2.39	0.55
4:E:312:ASN:ND2	4:E:314:ASP:O	2.39	0.55
5:F:554:SER:OG	5:F:555:TRP:N	2.39	0.55
5:F:902:LYS:HD3	5:F:903:ASN:H	1.71	0.55
6:J:433:LYS:N	7:K:499:GLY:CA	2.63	0.55
7:K:321:ALA:HA	7:K:348:ILE:HG13	1.76	0.55
1:M:492:ILE:HD11	1:M:510:LEU:HD12	1.89	0.55
1:M:643:LEU:O	1:M:647:ALA:N	2.38	0.55
4:Q:463:PHE:O	4:Q:554:ILE:HA	2.07	0.55
5:R:1040:THR:O	5:R:1042:ILE:N	2.40	0.55
6:S:391:LEU:O	6:S:395:GLU:HB2	2.06	0.55
7:W:427:LEU:N	7:W:428:PRO:HD3	2.20	0.55
3:D:1237:SER:CB	1:Z:829:TYR:CB	2.84	0.55
4:E:331:TYR:OH	4:E:388:ASN:ND2	2.40	0.55
4:E:1450:LEU:HD22	4:E:1456:ILE:HG21	1.88	0.55
5:F:679:ILE:O	5:F:745:ARG:NH1	2.39	0.55
5:F:928:LEU:HD12	5:F:928:LEU:N	2.01	0.55
5:F:1595:VAL:O	5:F:1599:GLU:HB2	2.06	0.55
1:M:140:ILE:CG2	4:Q:1393:LYS:NZ	2.61	0.55
3:P:139:LYS:HE3	3:P:600:GLU:HB2	1.88	0.55
3:P:284:PHE:CE1	3:P:296:LEU:HG	2.42	0.55
3:P:515:VAL:CG1	3:P:644:SER:HB3	2.32	0.55
3:P:970:ILE:HG23	3:P:975:ILE:HD12	1.87	0.55
4:Q:333:ARG:NH1	4:Q:341:PHE:O	2.40	0.55
4:Q:972:LEU:HD23	4:Q:995:LEU:HD11	1.86	0.55
4:Q:1309:ARG:HH21	4:Q:1313:ARG:HH12	1.55	0.55
8:X:682:ASP:HA	8:X:685:MET:CE	2.37	0.55
1:A:140:ILE:CG2	4:E:1393:LYS:NZ	2.61	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:ILE:HD11	1:A:510:LEU:HD12	1.89	0.55
1:A:814:MET:CG	1:A:833:ILE:HG12	2.35	0.55
3:D:545:GLN:HG3	3:D:572:LEU:CD1	2.36	0.55
3:D:903:ILE:HG23	3:D:953:PHE:CE1	2.42	0.55
5:F:334:GLN:HG3	5:F:854:GLU:CD	2.18	0.55
6:G:357:LEU:O	8:I:732:ALA:C	2.44	0.55
8:L:792:GLN:HA	8:L:796:ILE:HB	1.88	0.55
1:M:642:LEU:HA	1:M:645:GLN:NE2	2.22	0.55
1:M:775:LEU:CD1	1:M:832:LEU:HD11	2.37	0.55
5:R:10:THR:O	5:R:14:SER:HB3	2.06	0.55
5:R:554:SER:OG	5:R:555:TRP:N	2.40	0.55
6:V:390:ILE:CG2	6:V:394:ILE:HG21	2.33	0.55
1:Z:589:LEU:HA	1:Z:603:VAL:HG22	1.88	0.55
1:A:779:LEU:C	1:A:835:ILE:CB	2.74	0.55
3:D:175:ILE:HG12	3:D:182:CYS:SG	2.47	0.55
5:F:1040:THR:O	5:F:1042:ILE:N	2.40	0.55
5:F:1674:CYS:HA	5:F:1677:THR:OG1	2.07	0.55
6:G:411:ASN:OD1	6:G:411:ASN:N	2.37	0.55
6:J:384:LEU:HD23	6:J:384:LEU:C	2.26	0.55
7:K:389:LYS:CB	7:K:393:ASP:HB3	2.32	0.55
1:N:125:ILE:HG21	5:R:1362:ASP:CB	2.37	0.55
3:P:103:LEU:HG	3:P:107:TYR:CE2	2.41	0.55
3:P:441:VAL:HA	3:P:490:LYS:HB2	1.87	0.55
4:Q:318:HIS:H	4:Q:321:ILE:HD11	1.71	0.55
4:Q:765:PHE:HB3	4:Q:843:LEU:HD22	1.88	0.55
5:R:620:THR:HG23	5:R:627:VAL:HG21	1.87	0.55
5:R:1309:LEU:HD22	5:R:1309:LEU:C	2.27	0.55
7:W:389:LYS:CB	7:W:393:ASP:HB3	2.32	0.55
7:W:444:LEU:O	7:W:447:SER:N	2.38	0.55
1:Z:652:ILE:HA	1:Z:655:THR:HG22	1.87	0.55
1:Z:766:ASN:C	1:Z:770:ASN:HD22	2.09	0.55
3:D:139:LYS:HE3	3:D:600:GLU:HB2	1.88	0.55
3:D:222:ASN:O	3:D:301:SER:N	2.40	0.55
5:F:1067:ASN:HD22	5:F:1069:ASP:HB2	1.71	0.55
7:K:431:ILE:O	7:K:435:LYS:CB	2.55	0.55
1:M:751:LEU:HD22	2:O:1313:LEU:HD23	1.86	0.55
1:N:25:LEU:HD23	1:N:25:LEU:O	2.07	0.55
3:P:710:VAL:HG22	3:P:711:VAL:H	1.71	0.55
4:Q:14:THR:HB	4:Q:17:HIS:HB2	1.88	0.55
4:Q:1443:THR:O	4:Q:1446:PHE:HB2	2.06	0.55
4:Q:1644:ILE:HD13	4:Q:1647:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:349:GLU:O	5:R:480:ARG:NH2	2.40	0.55
1:A:501:MET:HA	1:A:541:TYR:CE1	2.41	0.55
1:A:642:LEU:HA	1:A:645:GLN:NE2	2.22	0.55
3:D:484:GLN:HG2	3:D:568:GLN:OE1	2.07	0.55
3:D:956:ASN:O	3:D:960:LYS:N	2.37	0.55
3:D:1140:LYS:HZ2	1:N:204:GLU:HG2	1.70	0.55
4:E:1585:LEU:N	4:E:1590:ASP:OD2	2.40	0.55
5:F:1243:GLU:HB3	5:F:1283:LYS:HD2	1.89	0.55
6:J:324:GLN:OE1	6:J:327:LYS:HE3	2.06	0.55
6:J:334:SER:C	6:J:337:LYS:H	2.09	0.55
1:M:255:GLU:OE2	1:M:480:GLN:NE2	2.40	0.55
1:M:501:MET:HA	1:M:541:TYR:CE1	2.41	0.55
1:N:288:ASN:O	1:N:292:LYS:HB2	2.06	0.55
4:Q:277:THR:HG22	4:Q:381:VAL:HG21	1.88	0.55
5:R:902:LYS:HD3	5:R:903:ASN:H	1.71	0.55
5:R:1435:LYS:CE	5:R:1484:ARG:HH21	2.18	0.55
5:R:1435:LYS:O	5:R:1439:GLU:N	2.28	0.55
5:R:1635:ARG:O	5:R:1639:GLY:N	2.40	0.55
6:V:384:LEU:HD23	6:V:384:LEU:C	2.26	0.55
6:V:388:CYS:HA	6:V:391:LEU:HB2	1.88	0.55
1:A:607:ARG:HD2	1:A:610:LEU:HD12	1.87	0.55
5:F:355:LEU:H	5:F:355:LEU:CD1	2.20	0.55
5:F:637:ASP:HA	5:F:640:PHE:HD2	1.71	0.55
5:F:788:LEU:HD12	5:F:874:LYS:HE2	1.89	0.55
5:F:1286:PHE:O	5:F:1286:PHE:HD1	1.89	0.55
5:F:1362:ASP:CB	1:Z:125:ILE:HG21	2.37	0.55
8:I:674:GLU:OE1	8:I:675:GLN:NE2	2.40	0.55
6:J:305:ILE:HD11	8:L:668:VAL:CG1	2.35	0.55
1:N:652:ILE:HA	1:N:655:THR:HG22	1.88	0.55
3:P:545:GLN:HG3	3:P:572:LEU:CD1	2.36	0.55
4:Q:331:TYR:OH	4:Q:388:ASN:ND2	2.40	0.55
4:Q:584:ASP:OD1	4:Q:584:ASP:N	2.38	0.55
5:R:227:ASP:CB	5:R:379:SER:CB	2.84	0.55
5:R:679:ILE:O	5:R:745:ARG:NH1	2.39	0.55
5:R:1445:VAL:HG12	5:R:1453:ARG:HG3	1.89	0.55
6:V:389:ARG:CZ	6:V:389:ARG:CB	2.84	0.55
1:A:19:ASN:HA	1:A:22:LEU:HG	1.88	0.55
1:A:309:ILE:HG23	1:A:313:LEU:HD12	1.88	0.55
1:A:660:LEU:HG	1:A:685:PRO:HB3	1.88	0.55
1:A:775:LEU:CD1	1:A:832:LEU:HD11	2.37	0.55
1:A:814:MET:HG3	1:A:833:ILE:HD13	1.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:507:LEU:HG	3:D:512:LYS:CB	2.37	0.55
3:D:508:LYS:HB3	3:D:516:LEU:HA	1.88	0.55
3:D:528:PRO:HG3	3:D:624:PHE:HE2	1.67	0.55
4:E:1309:ARG:HH21	4:E:1313:ARG:HH12	1.55	0.55
4:E:1319:LEU:CD2	4:E:1398:VAL:CG2	2.76	0.55
5:F:349:GLU:O	5:F:480:ARG:NH2	2.40	0.55
5:F:1309:LEU:HD22	5:F:1309:LEU:C	2.27	0.55
8:I:751:LEU:HA	8:I:754:ASN:HD22	1.72	0.55
1:N:44:VAL:O	1:N:47:ASN:N	2.37	0.55
1:N:638:TYR:HA	1:N:641:ILE:HG22	1.87	0.55
4:Q:20:ASN:ND2	4:Q:894:VAL:O	2.40	0.55
4:Q:137:VAL:HA	4:Q:140:LYS:HG2	1.88	0.55
4:Q:264:LEU:O	4:Q:268:THR:OG1	2.23	0.55
8:U:795:LYS:C	8:U:795:LYS:HD3	2.28	0.55
3:D:187:ASP:O	3:D:210:THR:HA	2.07	0.55
3:D:467:PHE:CG	3:D:473:THR:HG23	2.42	0.55
3:D:977:LYS:HE2	1:N:315:LYS:C	2.27	0.55
4:E:1356:LEU:HB2	1:Z:453:VAL:HG21	1.88	0.55
5:F:10:THR:O	5:F:14:SER:HB3	2.06	0.55
5:F:1251:ARG:NH2	5:F:1276:ASP:CB	2.66	0.55
5:F:1364:TYR:HD1	5:F:1364:TYR:O	1.90	0.55
5:F:1435:LYS:CE	5:F:1484:ARG:HH21	2.18	0.55
6:J:389:ARG:HH22	6:J:393:ASP:CG	2.10	0.55
6:J:405:LEU:HD23	6:J:405:LEU:O	2.07	0.55
8:L:640:LEU:HD13	8:L:643:LYS:HG2	1.88	0.55
8:L:682:ASP:HA	8:L:685:MET:CE	2.37	0.55
1:M:691:ARG:O	1:M:695:ILE:HG12	2.07	0.55
1:N:125:ILE:HD12	5:R:1363:ILE:HG23	1.88	0.55
2:O:1388:HIS:C	4:Q:1331:LEU:HD11	2.26	0.55
5:R:1088:ARG:HH12	8:U:785:ASN:HA	1.72	0.55
5:R:1243:GLU:HB3	5:R:1283:LYS:HD2	1.89	0.55
7:T:533:ILE:HA	7:T:536:LYS:HB2	1.88	0.55
8:U:674:GLU:OE1	8:U:675:GLN:NE2	2.40	0.55
6:V:296:ALA:O	6:V:299:ILE:HG12	2.06	0.55
1:Z:92:THR:O	1:Z:92:THR:OG1	2.15	0.55
1:Z:779:LEU:CB	1:Z:835:ILE:HA	2.37	0.55
1:A:814:MET:CG	1:A:833:ILE:HD13	2.35	0.54
2:C:1258:GLN:CG	2:C:1299:LYS:HE3	2.36	0.54
3:D:691:LYS:O	3:D:696:ARG:NH2	2.41	0.54
4:E:318:HIS:H	4:E:321:ILE:HD11	1.71	0.54
5:F:1088:ARG:HH12	8:I:785:ASN:HA	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1200:PRO:O	5:F:1299:ASN:OD1	2.26	0.54
6:J:389:ARG:HH11	6:J:389:ARG:CG	2.19	0.54
3:P:222:ASN:O	3:P:301:SER:N	2.40	0.54
5:R:1200:PRO:O	5:R:1299:ASN:OD1	2.25	0.54
5:R:1270:GLN:O	5:R:1274:ASP:HB2	2.06	0.54
5:R:1364:TYR:O	5:R:1364:TYR:HD1	1.90	0.54
6:S:281:ASP:HA	6:S:284:ILE:HD12	1.89	0.54
7:T:529:LYS:HB2	8:U:814:LEU:HD11	1.88	0.54
6:V:309:PRO:HA	6:V:312:VAL:HB	1.88	0.54
6:V:398:VAL:HG21	7:W:466:LEU:HD12	1.86	0.54
8:X:792:GLN:HA	8:X:796:ILE:HB	1.88	0.54
3:D:155:ASN:HA	3:D:646:SER:CB	2.36	0.54
3:D:164:PHE:HA	3:D:186:ILE:HD12	1.88	0.54
3:D:475:GLU:OE2	3:D:487:GLU:N	2.40	0.54
4:E:723:LEU:HD23	4:E:794:ILE:HD12	1.88	0.54
4:E:1022:TYR:CZ	4:E:1026:THR:CG2	2.89	0.54
5:F:334:GLN:NE2	5:F:859:LYS:CE	2.68	0.54
5:F:837:TYR:CG	5:F:918:PHE:HE2	2.25	0.54
5:F:1445:VAL:HG12	5:F:1453:ARG:HG3	1.89	0.54
6:G:281:ASP:HA	6:G:284:ILE:HD12	1.89	0.54
1:M:767:ILE:O	1:M:771:ILE:HG12	2.08	0.54
1:M:775:LEU:HB3	1:M:832:LEU:CG	2.34	0.54
1:N:223:ASN:ND2	1:N:555:GLU:OE2	2.35	0.54
1:N:779:LEU:CB	1:N:835:ILE:HA	2.37	0.54
3:P:398:ILE:O	3:P:402:ILE:HG12	2.06	0.54
3:P:484:GLN:HG2	3:P:568:GLN:OE1	2.07	0.54
4:Q:1450:LEU:HD22	4:Q:1456:ILE:HG21	1.88	0.54
5:R:637:ASP:HA	5:R:640:PHE:HD2	1.71	0.54
5:R:690:GLU:CG	8:U:722:LEU:CD2	2.80	0.54
5:R:825:ILE:HG22	5:R:890:VAL:HG13	1.87	0.54
5:R:1187:ASN:CB	5:R:1190:TYR:CB	2.85	0.54
8:U:778:LYS:HA	8:U:778:LYS:HZ2	1.72	0.54
1:Z:127:GLN:HA	1:Z:127:GLN:NE2	2.16	0.54
1:Z:661:LEU:HB2	1:Z:717:LEU:HD13	1.89	0.54
3:D:443:GLY:HA2	3:D:490:LYS:HG3	1.90	0.54
3:D:605:VAL:HG13	3:D:641:VAL:HG13	1.88	0.54
5:F:225:SER:HA	5:F:383:ASN:HD21	1.73	0.54
5:F:227:ASP:CB	5:F:379:SER:CB	2.84	0.54
5:F:837:TYR:CD2	5:F:918:PHE:HE2	2.26	0.54
8:I:795:LYS:C	8:I:795:LYS:HD3	2.28	0.54
1:M:128:LEU:CD1	4:Q:1260:TYR:CE2	2.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:197:GLU:O	1:N:530:ARG:NH2	2.40	0.54
1:N:262:SER:O	1:N:266:LYS:NZ	2.41	0.54
4:Q:170:MET:HA	4:Q:173:ILE:HG22	1.89	0.54
5:R:46:ALA:O	5:R:50:GLN:HB3	2.07	0.54
6:V:281:ASP:HA	6:V:284:ILE:CD1	2.31	0.54
1:A:215:TYR:HB3	1:A:505:HIS:NE2	2.23	0.54
1:A:691:ARG:O	1:A:695:ILE:HG12	2.07	0.54
2:C:786:THR:H	2:C:789:ASP:HB2	1.72	0.54
3:D:103:LEU:HG	3:D:107:TYR:CE2	2.41	0.54
4:E:14:THR:HB	4:E:17:HIS:HB2	1.88	0.54
4:E:20:ASN:ND2	4:E:894:VAL:O	2.40	0.54
4:E:137:VAL:HA	4:E:140:LYS:HG2	1.88	0.54
4:E:180:LYS:NZ	4:E:184:ASP:OD1	2.40	0.54
7:K:379:ILE:O	7:K:382:LYS:CA	2.55	0.54
1:N:112:TYR:CB	8:U:785:ASN:CB	2.85	0.54
1:N:252:GLN:CD	1:N:498:PHE:CE2	2.79	0.54
1:N:277:TYR:O	1:N:280:GLN:NE2	2.37	0.54
1:N:661:LEU:HB2	1:N:717:LEU:HD13	1.89	0.54
2:O:786:THR:H	2:O:789:ASP:HB2	1.72	0.54
4:Q:885:VAL:HG21	4:Q:923:LEU:HD21	1.90	0.54
5:R:354:ARG:CB	5:R:354:ARG:CZ	2.85	0.54
5:R:788:LEU:HA	5:R:791:PHE:HB3	1.88	0.54
8:U:822:LYS:CE	8:U:822:LYS:CA	2.84	0.54
7:W:379:ILE:O	7:W:382:LYS:CA	2.55	0.54
8:X:672:GLY:HA2	8:X:675:GLN:HG2	1.87	0.54
1:Z:197:GLU:O	1:Z:530:ARG:NH2	2.40	0.54
1:Z:463:GLN:HE21	1:Z:487:LEU:HD11	1.72	0.54
3:D:1377:ASN:CG	1:Z:758:GLN:HE21	2.11	0.54
4:E:207:ASP:OD1	4:E:207:ASP:N	2.41	0.54
4:E:463:PHE:O	4:E:554:ILE:HA	2.07	0.54
5:F:579:ARG:HH22	5:F:701:THR:HG21	1.71	0.54
5:F:788:LEU:HA	5:F:791:PHE:HB3	1.88	0.54
5:F:1283:LYS:CE	5:F:1283:LYS:CA	2.85	0.54
7:K:352:ILE:HG21	7:K:358:LEU:CG	2.38	0.54
3:P:440:THR:OG1	3:P:444:VAL:HG12	2.07	0.54
8:X:751:LEU:HA	8:X:755:LEU:HD13	1.90	0.54
1:Z:24:GLU:OE1	1:Z:24:GLU:HA	2.07	0.54
1:A:116:LYS:O	1:A:116:LYS:HD3	2.08	0.54
1:A:814:MET:HG2	1:A:833:ILE:CG1	2.37	0.54
3:D:402:ILE:HG13	3:D:406:THR:HB	1.88	0.54
4:E:227:ILE:CD1	4:E:258:ILE:HG21	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:333:ARG:NH1	4:E:341:PHE:O	2.40	0.54
4:E:1319:LEU:HD22	4:E:1394:LYS:HB3	1.90	0.54
5:F:690:GLU:CG	8:I:722:LEU:CD2	2.80	0.54
5:F:1187:ASN:CB	5:F:1190:TYR:CB	2.85	0.54
8:L:645:THR:O	8:L:649:THR:HG23	2.08	0.54
1:M:215:TYR:HB3	1:M:505:HIS:NE2	2.23	0.54
3:P:903:ILE:HG23	3:P:953:PHE:CE1	2.42	0.54
4:Q:715:THR:HB	4:Q:742:LEU:HD22	1.90	0.54
4:Q:1585:LEU:N	4:Q:1590:ASP:OD2	2.40	0.54
6:S:427:GLU:HG2	8:U:779:THR:HG21	1.90	0.54
8:U:751:LEU:HA	8:U:754:ASN:HD22	1.72	0.54
7:W:394:THR:HB	7:W:398:ILE:HG13	1.90	0.54
7:W:431:ILE:O	7:W:435:LYS:CB	2.55	0.54
3:D:1238:ARG:HA	1:Z:830:SER:HB2	1.87	0.54
4:E:33:ASP:OD2	4:E:946:TRP:NE1	2.40	0.54
4:E:885:VAL:HG21	4:E:923:LEU:HD21	1.90	0.54
5:F:44:ASN:OD1	5:F:44:ASN:N	2.40	0.54
5:F:46:ALA:O	5:F:50:GLN:HB3	2.07	0.54
7:H:529:LYS:HB2	8:I:814:LEU:HD11	1.88	0.54
6:J:382:LYS:HE2	6:J:382:LYS:N	2.22	0.54
1:N:463:GLN:HE21	1:N:487:LEU:HD11	1.72	0.54
3:P:175:ILE:HG12	3:P:182:CYS:SG	2.47	0.54
3:P:467:PHE:CG	3:P:473:THR:HG23	2.42	0.54
3:P:475:GLU:OE2	3:P:487:GLU:N	2.40	0.54
3:P:507:LEU:HG	3:P:512:LYS:CB	2.37	0.54
3:P:784:ILE:O	3:P:949:PHE:HB2	2.08	0.54
5:R:133:GLU:HA	5:R:136:LYS:HD3	1.89	0.54
5:R:1550:LEU:CD1	5:R:1604:ILE:HG21	2.38	0.54
7:T:426:GLY:HA3	8:U:735:ASN:C	2.28	0.54
4:E:1290:SER:OG	4:E:1297:LYS:NZ	2.40	0.54
5:F:133:GLU:HA	5:F:136:LYS:HD3	1.89	0.54
5:F:1550:LEU:CD1	5:F:1604:ILE:HG21	2.38	0.54
7:H:298:SER:HA	7:H:306:THR:HA	1.90	0.54
8:I:752:ASP:OD1	8:I:756:ASN:ND2	2.40	0.54
7:K:433:GLU:HB2	8:L:741:ARG:HH11	1.73	0.54
3:P:187:ASP:O	3:P:210:THR:HA	2.07	0.54
3:P:443:GLY:HA2	3:P:490:LYS:HG3	1.90	0.54
4:Q:1382:THR:OG1	4:Q:1383:GLN:NE2	2.41	0.54
5:R:1529:ALA:HB1	5:R:1611:VAL:HG13	1.83	0.54
7:W:444:LEU:C	7:W:447:SER:CB	2.75	0.54
7:W:509:ILE:HD12	7:W:509:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:262:SER:O	1:Z:266:LYS:NZ	2.41	0.54
1:A:545:PHE:HD2	1:A:549:ASP:HB2	1.73	0.54
1:A:772:PRO:HA	1:A:828:THR:HG21	1.87	0.54
3:D:784:ILE:O	3:D:949:PHE:HB2	2.08	0.54
5:F:159:LYS:CE	5:F:363:ASP:HA	2.26	0.54
5:F:1498:LEU:HG	5:F:1514:GLU:HB3	1.88	0.54
8:I:805:ARG:CB	1:Z:88:LYS:HZ1	2.21	0.54
8:I:814:LEU:HD21	1:Z:59:LYS:CA	2.38	0.54
1:M:660:LEU:HG	1:M:685:PRO:HB3	1.88	0.54
4:Q:757:LYS:HA	5:R:1195:PHE:CD2	2.43	0.54
4:Q:1005:LEU:HD13	4:Q:1046:LYS:HZ1	1.73	0.54
5:R:1097:TYR:OH	5:R:1164:PHE:CD1	2.49	0.54
5:R:1674:CYS:HA	5:R:1677:THR:OG1	2.07	0.54
6:V:405:LEU:O	6:V:405:LEU:HD23	2.07	0.54
3:D:222:ASN:HB3	3:D:301:SER:HA	1.90	0.54
5:F:389:LEU:H	5:F:389:LEU:CD1	2.16	0.54
5:F:1363:ILE:HG23	1:Z:125:ILE:HD12	1.89	0.54
5:F:1635:ARG:O	5:F:1639:GLY:N	2.40	0.54
8:L:751:LEU:HA	8:L:755:LEU:HD13	1.90	0.54
1:N:141:ASN:ND2	5:R:1606:GLN:HB3	2.19	0.54
2:O:1261:PHE:CZ	2:O:1265:ILE:HD11	2.43	0.54
3:P:160:ILE:CG2	3:P:191:ILE:HG21	2.37	0.54
4:Q:1409:ALA:HB1	4:Q:1459:LYS:HG3	1.90	0.54
7:W:352:ILE:HG21	7:W:358:LEU:CG	2.38	0.54
1:Z:462:PHE:HA	1:Z:465:ILE:HD12	1.89	0.54
1:Z:789:LEU:HB3	1:Z:799:LYS:HD2	1.90	0.54
1:A:625:GLU:OE1	1:A:629:ARG:NH2	2.33	0.53
2:C:197:ILE:HD13	2:C:224:VAL:HG11	1.91	0.53
3:D:585:ILE:HG21	3:D:593:VAL:HB	1.90	0.53
3:D:662:LEU:HB3	3:D:667:LEU:HD13	1.90	0.53
7:H:426:GLY:HA3	8:I:735:ASN:C	2.27	0.53
7:K:321:ALA:C	7:K:348:ILE:CD1	2.69	0.53
1:M:116:LYS:O	1:M:116:LYS:HD3	2.08	0.53
1:M:128:LEU:HB3	4:Q:1260:TYR:CE2	2.40	0.53
4:Q:207:ASP:N	4:Q:207:ASP:OD1	2.41	0.53
4:Q:826:SER:OG	4:Q:844:TYR:OH	2.26	0.53
5:R:579:ARG:HH22	5:R:701:THR:HG21	1.71	0.53
5:R:917:PHE:CE2	5:R:922:LEU:HD21	2.43	0.53
5:R:920:ILE:HG13	5:R:924:ALA:HA	1.89	0.53
5:R:1024:LEU:HD22	5:R:1049:LEU:HD23	1.90	0.53
5:R:1098:SER:O	5:R:1101:ILE:HB	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T:298:SER:HA	7:T:306:THR:HA	1.90	0.53
7:T:303:THR:OG1	7:T:329:HIS:O	2.22	0.53
8:U:752:ASP:OD1	8:U:756:ASN:ND2	2.40	0.53
7:W:337:GLN:O	7:W:341:LYS:CD	2.56	0.53
8:X:645:THR:O	8:X:649:THR:HG23	2.08	0.53
1:Z:16:LYS:HA	1:Z:16:LYS:CE	2.36	0.53
4:E:1382:THR:OG1	4:E:1383:GLN:NE2	2.41	0.53
5:F:354:ARG:CB	5:F:354:ARG:CZ	2.85	0.53
5:F:427:THR:OG1	5:F:428:GLN:NE2	2.41	0.53
5:F:1014:SER:N	8:I:788:ASP:O	2.40	0.53
6:G:295:LYS:HD3	6:J:363:LYS:HZ3	1.73	0.53
6:J:281:ASP:HA	6:J:284:ILE:CD1	2.31	0.53
6:J:388:CYS:C	6:J:391:LEU:HB2	2.28	0.53
1:M:814:MET:CG	1:M:833:ILE:HD13	2.35	0.53
4:Q:607:SER:OG	4:Q:608:ILE:N	2.40	0.53
6:S:411:ASN:OD1	6:S:411:ASN:N	2.37	0.53
6:V:311:ASP:HA	6:V:314:TYR:CD2	2.43	0.53
7:W:433:GLU:HB2	8:X:741:ARG:HH11	1.73	0.53
1:A:128:LEU:CD1	4:E:1260:TYR:CE2	2.89	0.53
1:A:391:HIS:NE2	1:A:416:GLY:O	2.33	0.53
2:C:786:THR:N	2:C:789:ASP:HB2	2.24	0.53
3:D:440:THR:OG1	3:D:444:VAL:HG12	2.07	0.53
4:E:29:VAL:HG12	4:E:32:VAL:HG11	1.91	0.53
4:E:1268:SER:OG	4:E:1269:GLY:N	2.42	0.53
5:F:909:LEU:O	7:H:403:SER:C	2.47	0.53
5:F:1037:ASN:N	5:F:1040:THR:CB	2.69	0.53
5:F:1473:ASN:OD1	5:F:1476:LEU:N	2.34	0.53
6:G:296:ALA:HA	6:J:363:LYS:CE	2.39	0.53
1:M:83:VAL:HA	1:M:86:PHE:CD2	2.43	0.53
1:N:799:LYS:HA	1:N:802:GLN:HE21	1.73	0.53
3:P:501:SER:O	3:P:508:LYS:NZ	2.41	0.53
5:R:726:SER:O	5:R:726:SER:OG	2.27	0.53
5:R:837:TYR:CD2	5:R:918:PHE:HE2	2.26	0.53
5:R:922:LEU:HD12	5:R:922:LEU:N	2.23	0.53
5:R:1634:LYS:HD3	5:R:1638:ILE:HD12	1.91	0.53
6:V:310:ARG:HG2	6:V:314:TYR:CZ	2.44	0.53
1:Z:674:LEU:HD21	1:Z:724:ARG:HG3	1.90	0.53
4:E:607:SER:OG	4:E:608:ILE:N	2.40	0.53
4:E:789:GLN:OE1	4:E:792:GLN:NE2	2.40	0.53
8:I:785:ASN:CB	1:Z:112:TYR:CB	2.85	0.53
7:K:394:THR:HB	7:K:398:ILE:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:87:ILE:N	1:N:87:ILE:CD1	2.72	0.53
3:P:1020:ASN:ND2	1:Z:252:GLN:HG2	2.23	0.53
5:R:757:PHE:HD1	5:R:780:ILE:HD11	1.74	0.53
5:R:788:LEU:HD12	5:R:874:LYS:HE2	1.88	0.53
5:R:824:ALA:O	5:R:826:PRO:N	2.41	0.53
5:R:1110:MET:HE3	5:R:1157:TRP:HZ2	1.74	0.53
8:U:752:ASP:O	8:U:756:ASN:ND2	2.42	0.53
3:D:284:PHE:CE1	3:D:296:LEU:HG	2.42	0.53
4:E:864:SER:OG	4:E:1147:LEU:O	2.24	0.53
4:E:1531:SER:O	4:E:1535:ASN:ND2	2.42	0.53
5:F:286:ILE:HA	5:F:289:CYS:HB2	1.91	0.53
5:F:320:GLU:OE1	5:F:351:HIS:HE1	1.92	0.53
5:F:835:LYS:O	5:F:838:LYS:N	2.42	0.53
5:F:917:PHE:CE2	5:F:922:LEU:HD21	2.43	0.53
5:F:1027:GLN:CG	5:F:1036:PRO:HA	2.37	0.53
6:G:295:LYS:C	6:J:363:LYS:HZ1	2.10	0.53
7:H:303:THR:OG1	7:H:329:HIS:O	2.22	0.53
6:J:389:ARG:CG	6:J:389:ARG:NH1	2.71	0.53
1:M:16:LYS:HG3	6:V:468:ALA:CB	2.37	0.53
1:N:758:GLN:HE21	3:P:1377:ASN:CG	2.11	0.53
3:P:222:ASN:HB3	3:P:301:SER:HA	1.90	0.53
3:P:977:LYS:HE2	1:Z:315:LYS:CB	2.39	0.53
5:R:922:LEU:HD23	7:T:400:LYS:HZ1	1.66	0.53
1:A:255:GLU:OE2	1:A:480:GLN:NE2	2.40	0.53
4:E:170:MET:HA	4:E:173:ILE:HG22	1.89	0.53
4:E:826:SER:OG	4:E:844:TYR:OH	2.26	0.53
5:F:1098:SER:O	5:F:1101:ILE:HB	2.09	0.53
6:G:327:LYS:HZ2	1:Z:46:ILE:CA	2.18	0.53
8:I:778:LYS:HG2	8:I:794:ILE:CB	2.39	0.53
6:J:310:ARG:HG2	6:J:314:TYR:CZ	2.43	0.53
6:J:389:ARG:CB	6:J:389:ARG:CZ	2.84	0.53
7:K:367:GLU:O	7:K:371:GLN:HG3	2.09	0.53
1:M:21:LYS:HE2	1:M:25:LEU:HG	1.90	0.53
1:M:289:LEU:HD22	1:M:308:PHE:HA	1.91	0.53
1:M:687:LEU:HD23	1:M:690:ARG:HH11	1.74	0.53
1:M:814:MET:HG2	1:M:833:ILE:CG1	2.37	0.53
3:P:576:LEU:HD13	3:P:601:THR:O	2.08	0.53
4:Q:1234:LEU:HD12	4:Q:1287:ILE:HG13	1.90	0.53
8:U:778:LYS:HG2	8:U:794:ILE:CB	2.39	0.53
6:V:382:LYS:HE2	6:V:382:LYS:N	2.23	0.53
1:Z:623:ILE:HG23	1:Z:624:THR:HG23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:799:LYS:HA	1:Z:802:GLN:HE21	1.73	0.53
3:D:515:VAL:CG1	3:D:644:SER:HB3	2.32	0.53
3:D:576:LEU:HD13	3:D:601:THR:O	2.08	0.53
3:D:775:LEU:O	3:D:779:ARG:HG3	2.09	0.53
4:E:1259:PHE:CD1	4:E:1259:PHE:C	2.81	0.53
5:F:1024:LEU:HD22	5:F:1049:LEU:HD23	1.90	0.53
6:G:295:LYS:C	6:J:363:LYS:HZ2	2.12	0.53
7:K:427:LEU:N	7:K:428:PRO:CD	2.72	0.53
7:K:444:LEU:C	7:K:447:SER:CB	2.75	0.53
7:K:483:VAL:H	7:K:494:MET:N	2.07	0.53
1:N:789:LEU:HB3	1:N:799:LYS:HD2	1.90	0.53
3:P:662:LEU:HB3	3:P:667:LEU:HD13	1.90	0.53
3:P:775:LEU:O	3:P:779:ARG:HG3	2.09	0.53
4:Q:789:GLN:OE1	4:Q:792:GLN:NE2	2.40	0.53
4:Q:1341:GLU:OE1	4:Q:1346:LYS:NZ	2.42	0.53
6:S:295:LYS:HB3	6:V:363:LYS:HZ2	1.73	0.53
7:W:367:GLU:O	7:W:371:GLN:HG3	2.09	0.53
2:C:172:CYS:HB2	2:C:183:TRP:CE2	2.44	0.53
2:C:1261:PHE:CZ	2:C:1265:ILE:HD11	2.43	0.53
3:D:403:GLY:O	3:D:408:ARG:NE	2.37	0.53
3:D:470:SER:HB3	3:D:475:GLU:CG	2.39	0.53
4:E:715:THR:HB	4:E:742:LEU:HD22	1.90	0.53
4:E:757:LYS:HA	5:F:1195:PHE:CD2	2.44	0.53
4:E:1341:GLU:OE1	4:E:1346:LYS:NZ	2.42	0.53
5:F:333:GLU:C	5:F:335:ASP:H	2.11	0.53
5:F:936:ILE:O	5:F:940:ASN:ND2	2.42	0.53
6:J:384:LEU:HD21	7:K:455:LYS:HG2	1.91	0.53
1:M:309:ILE:HG23	1:M:313:LEU:HD12	1.89	0.53
1:M:681:SER:HB2	1:M:691:ARG:HD3	1.91	0.53
1:N:431:SER:OG	1:N:432:ILE:N	2.42	0.53
2:O:693:LEU:HB3	2:O:694:PHE:HD1	1.74	0.53
5:R:836:ILE:N	5:R:836:ILE:CD1	2.72	0.53
5:R:1283:LYS:CE	5:R:1283:LYS:CA	2.85	0.53
6:V:334:SER:C	6:V:337:LYS:H	2.09	0.53
6:V:411:ASN:OD1	6:V:411:ASN:N	2.41	0.53
7:W:385:GLN:CA	7:W:385:GLN:NE2	2.72	0.53
1:Z:127:GLN:CA	1:Z:127:GLN:NE2	2.72	0.53
1:A:48:GLU:O	7:K:514:THR:HG23	2.09	0.53
1:A:289:LEU:HD22	1:A:308:PHE:HA	1.91	0.53
1:A:681:SER:HB2	1:A:691:ARG:HD3	1.91	0.53
4:E:1005:LEU:HD13	4:E:1046:LYS:HZ1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:1234:LEU:HD12	4:E:1287:ILE:HG13	1.90	0.53
5:F:333:GLU:C	5:F:335:ASP:N	2.61	0.53
7:K:337:GLN:O	7:K:341:LYS:CD	2.56	0.53
1:N:462:PHE:HA	1:N:465:ILE:HD12	1.89	0.53
2:O:172:CYS:HB2	2:O:183:TRP:CE2	2.44	0.53
4:Q:827:PRO:HB3	4:Q:893:TYR:CZ	2.44	0.53
4:Q:1290:SER:OG	4:Q:1297:LYS:NZ	2.40	0.53
4:Q:1294:ASP:O	4:Q:1298:ASN:N	2.42	0.53
4:Q:1319:LEU:HD22	4:Q:1394:LYS:HB3	1.90	0.53
5:R:835:LYS:O	5:R:838:LYS:N	2.42	0.53
5:R:837:TYR:CD2	5:R:918:PHE:CE2	2.97	0.53
5:R:841:PHE:HE2	5:R:918:PHE:CE1	2.22	0.53
1:A:20:LYS:CB	6:J:468:ALA:HB1	2.39	0.53
2:C:693:LEU:HB3	2:C:694:PHE:HD1	1.74	0.53
3:D:150:LYS:HD3	3:D:153:VAL:CG2	2.39	0.53
5:F:824:ALA:O	5:F:826:PRO:N	2.41	0.53
8:I:752:ASP:O	8:I:756:ASN:ND2	2.42	0.53
1:N:127:GLN:CA	1:N:127:GLN:NE2	2.72	0.53
2:O:885:VAL:CG1	2:O:901:ILE:HG23	2.39	0.53
5:R:286:ILE:HA	5:R:289:CYS:HB2	1.91	0.53
1:Z:87:ILE:N	1:Z:87:ILE:CD1	2.72	0.53
5:F:1360:LEU:CD1	5:F:1360:LEU:N	2.73	0.52
5:F:1370:LEU:O	5:F:1371:ILE:CG1	2.56	0.52
5:F:1634:LYS:HD3	5:F:1638:ILE:HD12	1.91	0.52
6:G:458:ALA:CB	1:Z:32:LEU:HD11	2.38	0.52
6:J:433:LYS:CB	7:K:499:GLY:CA	2.81	0.52
1:N:125:ILE:CD1	5:R:1363:ILE:CG2	2.85	0.52
1:N:125:ILE:HD12	5:R:1363:ILE:HG22	1.91	0.52
1:N:252:GLN:NE2	1:N:498:PHE:CD2	2.77	0.52
1:N:439:HIS:HD1	1:N:457:TYR:HH	1.49	0.52
3:P:691:LYS:O	3:P:696:ARG:NH2	2.41	0.52
4:Q:864:SER:OG	4:Q:1147:LEU:O	2.24	0.52
5:R:355:LEU:HD12	5:R:355:LEU:H	1.74	0.52
5:R:922:LEU:N	5:R:922:LEU:CD1	2.72	0.52
5:R:958:SER:HB3	5:R:962:ARG:HA	1.91	0.52
1:A:767:ILE:O	1:A:771:ILE:HG12	2.08	0.52
3:D:977:LYS:HD3	1:N:316:ALA:HB3	1.89	0.52
6:J:383:LYS:CE	8:L:756:ASN:HA	2.23	0.52
7:K:511:GLU:O	7:K:515:ASN:ND2	2.42	0.52
1:N:536:ASN:O	1:N:540:ASN:ND2	2.42	0.52
3:P:263:VAL:HB	3:P:311:LYS:CE	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:585:ILE:HG21	3:P:593:VAL:HB	1.90	0.52
4:Q:1259:PHE:C	4:Q:1259:PHE:CD1	2.81	0.52
5:R:389:LEU:N	5:R:389:LEU:CD1	2.72	0.52
5:R:1376:THR:O	5:R:1376:THR:OG1	2.24	0.52
6:V:324:GLN:O	6:V:328:GLN:HG2	2.09	0.52
6:V:350:PHE:HD1	7:W:419:LEU:HD12	1.73	0.52
1:A:590:LEU:HD13	1:A:624:THR:HG23	1.91	0.52
4:E:954:ILE:HG12	4:E:1015:LYS:HG2	1.92	0.52
4:E:1170:ASP:O	4:E:1174:ASN:ND2	2.43	0.52
5:F:210:LYS:HG2	5:F:214:LEU:HD13	1.92	0.52
5:F:757:PHE:HD1	5:F:780:ILE:HD11	1.74	0.52
5:F:1672:MET:CB	1:Z:149:ALA:CB	2.84	0.52
1:M:818:GLY:O	1:M:821:GLN:NE2	2.40	0.52
1:N:46:ILE:CA	6:S:327:LYS:HZ2	2.21	0.52
1:N:59:LYS:CA	8:U:814:LEU:HD21	2.38	0.52
1:N:757:ALA:CB	1:N:819:MET:C	2.39	0.52
1:N:807:LYS:O	1:N:836:ASP:O	2.27	0.52
3:P:956:ASN:O	3:P:960:LYS:N	2.37	0.52
4:Q:724:SER:HA	4:Q:1166:VAL:HA	1.90	0.52
4:Q:954:ILE:HG12	4:Q:1015:LYS:HG2	1.92	0.52
4:Q:976:PHE:CZ	7:W:457:ASN:HB3	2.44	0.52
5:R:543:VAL:HA	5:R:546:TYR:HB2	1.91	0.52
5:R:909:LEU:O	7:T:403:SER:C	2.47	0.52
5:R:1251:ARG:HH22	5:R:1276:ASP:HB3	1.73	0.52
5:R:1251:ARG:NH2	5:R:1276:ASP:HB3	2.25	0.52
6:V:332:LYS:HG2	7:W:398:ILE:HG21	1.91	0.52
6:V:376:LYS:NZ	8:X:756:ASN:ND2	2.57	0.52
1:A:83:VAL:HA	1:A:86:PHE:CD2	2.43	0.52
3:D:186:ILE:CG2	3:D:189:LYS:HB2	2.40	0.52
4:E:368:ILE:HG22	4:E:369:LEU:HD12	1.91	0.52
5:F:837:TYR:CD2	5:F:918:PHE:CE2	2.97	0.52
5:F:920:ILE:HG13	5:F:924:ALA:HA	1.89	0.52
5:F:1363:ILE:CG2	1:Z:125:ILE:CD1	2.85	0.52
6:G:427:GLU:HG2	8:I:779:THR:HG21	1.90	0.52
6:J:311:ASP:HA	6:J:314:TYR:CD2	2.43	0.52
6:J:390:ILE:N	6:J:390:ILE:CD1	2.72	0.52
7:K:385:GLN:CA	7:K:385:GLN:NE2	2.72	0.52
1:M:274:GLY:HA2	1:M:484:LEU:HD22	1.91	0.52
1:N:391:HIS:NE2	1:N:417:ARG:O	2.42	0.52
3:P:664:ASP:O	3:P:667:LEU:N	2.43	0.52
4:Q:29:VAL:HG12	4:Q:32:VAL:HG11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:368:ILE:HG22	4:Q:369:LEU:HD12	1.92	0.52
4:Q:1531:SER:O	4:Q:1535:ASN:ND2	2.42	0.52
6:V:390:ILE:CG1	8:X:766:ILE:HD12	2.40	0.52
7:W:309:ARG:HG3	7:W:353:TYR:CZ	2.44	0.52
1:Z:289:LEU:HD23	1:Z:308:PHE:HA	1.91	0.52
1:Z:807:LYS:O	1:Z:836:ASP:O	2.27	0.52
1:A:687:LEU:HD23	1:A:690:ARG:HH11	1.74	0.52
3:D:944:LEU:O	3:D:947:LEU:HB2	2.10	0.52
3:D:1467:SER:HB2	1:Z:621:HIS:CE1	2.45	0.52
4:E:976:PHE:CZ	7:K:457:ASN:HB3	2.44	0.52
5:F:1251:ARG:NH2	5:F:1276:ASP:HB3	2.25	0.52
5:F:1522:VAL:HA	5:F:1525:LEU:HD12	1.91	0.52
7:H:522:TYR:CB	1:Z:54:PHE:C	2.77	0.52
8:I:781:ASN:HD22	8:I:781:ASN:N	2.08	0.52
6:J:332:LYS:HG2	7:K:398:ILE:HG21	1.91	0.52
1:M:224:ASN:OD1	1:M:607:ARG:NH2	2.41	0.52
3:P:421:VAL:HG13	3:P:491:ARG:CB	2.39	0.52
5:R:210:LYS:HG2	5:R:214:LEU:HD13	1.92	0.52
5:R:333:GLU:C	5:R:335:ASP:N	2.61	0.52
5:R:1027:GLN:CG	5:R:1036:PRO:HA	2.37	0.52
5:R:1605:PHE:HA	5:R:1608:ILE:HG12	1.91	0.52
3:D:421:VAL:HG13	3:D:491:ARG:CB	2.39	0.52
3:D:501:SER:O	3:D:508:LYS:NZ	2.41	0.52
3:D:1019:ARG:C	1:N:251:ALA:H	2.05	0.52
4:E:107:SER:HB2	4:E:190:GLN:HE22	1.74	0.52
4:E:584:ASP:N	4:E:584:ASP:OD1	2.38	0.52
4:E:827:PRO:HB3	4:E:893:TYR:CZ	2.44	0.52
4:E:1409:ALA:HB1	4:E:1459:LYS:HG3	1.90	0.52
4:E:1563:LEU:HD12	4:E:1564:LEU:HG	1.92	0.52
5:F:154:GLN:HA	5:F:157:GLU:HG3	1.92	0.52
5:F:836:ILE:N	5:F:836:ILE:CD1	2.72	0.52
5:F:1067:ASN:N	5:F:1067:ASN:OD1	2.42	0.52
5:F:1360:LEU:C	5:F:1362:ASP:H	2.13	0.52
5:F:1664:ASN:HA	5:F:1667:VAL:HG12	1.92	0.52
6:J:364:ILE:HG22	6:J:367:ASN:HD21	1.75	0.52
1:M:812:GLN:HA	1:M:815:ILE:HD12	1.91	0.52
1:N:54:PHE:C	7:T:522:TYR:CB	2.77	0.52
1:N:830:SER:HB2	3:P:1238:ARG:HA	1.87	0.52
3:P:970:ILE:HG23	3:P:975:ILE:CD1	2.40	0.52
4:Q:1563:LEU:HD12	4:Q:1564:LEU:HG	1.92	0.52
5:R:328:ASP:O	5:R:331:ILE:HD11	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:427:THR:OG1	5:R:428:GLN:NE2	2.41	0.52
5:R:928:LEU:HD12	5:R:928:LEU:N	2.01	0.52
5:R:936:ILE:O	5:R:940:ASN:ND2	2.42	0.52
7:W:310:ALA:CB	7:W:352:ILE:HB	2.39	0.52
7:W:483:VAL:H	7:W:494:MET:N	2.06	0.52
1:A:812:GLN:HA	1:A:815:ILE:HD12	1.91	0.52
3:D:160:ILE:CG2	3:D:191:ILE:HG21	2.37	0.52
4:E:33:ASP:OD1	4:E:33:ASP:N	2.43	0.52
4:E:739:ILE:HG21	4:E:795:ILE:HG22	1.92	0.52
5:F:328:ASP:O	5:F:331:ILE:HD11	2.09	0.52
5:F:639:LEU:HA	5:F:642:PHE:HB3	1.91	0.52
5:F:1605:PHE:HA	5:F:1608:ILE:HG12	1.91	0.52
7:H:314:ASN:HB2	7:H:361:ARG:HH12	1.75	0.52
6:J:405:LEU:HD11	7:K:469:ARG:O	2.10	0.52
6:J:432:LEU:HA	8:L:782:ILE:O	2.10	0.52
7:K:339:MET:SD	7:K:342:LYS:NZ	2.68	0.52
8:L:643:LYS:HG3	8:L:647:GLN:NE2	2.22	0.52
8:L:675:GLN:O	8:L:679:LEU:HD13	2.10	0.52
2:O:786:THR:N	2:O:789:ASP:HB2	2.24	0.52
4:Q:33:ASP:N	4:Q:33:ASP:OD1	2.42	0.52
5:R:44:ASN:N	5:R:44:ASN:OD1	2.40	0.52
5:R:841:PHE:CD2	5:R:918:PHE:CD1	2.89	0.52
6:V:388:CYS:CB	7:W:455:LYS:HD2	2.32	0.52
7:W:313:TYR:CD1	7:W:349:PRO:HB3	2.45	0.52
1:Z:414:LEU:HD11	1:Z:438:MET:HB2	1.92	0.52
1:A:274:GLY:HA2	1:A:484:LEU:HD22	1.91	0.52
3:D:233:LEU:HD11	3:D:282:ILE:HD13	1.92	0.52
3:D:263:VAL:HB	3:D:311:LYS:CE	2.37	0.52
3:D:664:ASP:O	3:D:667:LEU:N	2.42	0.52
3:D:1020:ASN:CB	1:N:251:ALA:HB3	2.33	0.52
5:F:922:LEU:N	5:F:922:LEU:CD1	2.72	0.52
5:F:1392:ILE:CB	5:F:1405:PHE:CE2	2.93	0.52
8:I:814:LEU:HD23	1:Z:59:LYS:CB	2.39	0.52
7:K:309:ARG:HG3	7:K:353:TYR:CZ	2.44	0.52
7:K:352:ILE:HG21	7:K:358:LEU:CD2	2.40	0.52
7:K:387:GLN:NE2	7:K:387:GLN:CA	2.73	0.52
8:L:692:LYS:HD2	8:L:695:GLN:HE21	1.75	0.52
1:M:342:ARG:NE	1:M:434:ASP:OD1	2.41	0.52
1:N:414:LEU:HD11	1:N:438:MET:HB2	1.92	0.52
1:N:670:LEU:HD13	1:N:724:ARG:HD3	1.92	0.52
3:P:528:PRO:CG	3:P:624:PHE:HE2	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:177:GLN:O	5:R:181:PHE:HB2	2.10	0.52
5:R:1427:LEU:HD22	5:R:1466:LEU:HG	1.91	0.52
5:R:1522:VAL:HA	5:R:1525:LEU:HD12	1.91	0.52
6:V:370:ASP:HA	6:V:373:PHE:CB	2.40	0.52
6:V:384:LEU:HD21	7:W:455:LYS:HG2	1.91	0.52
7:W:427:LEU:N	7:W:428:PRO:CD	2.72	0.52
3:D:242:MET:O	3:D:259:THR:OG1	2.21	0.52
3:D:969:SER:O	3:D:972:ASN:HB2	2.10	0.52
5:F:157:GLU:OE1	5:F:183:ARG:NH1	2.42	0.52
5:F:389:LEU:N	5:F:389:LEU:CD1	2.72	0.52
5:F:690:GLU:HG2	8:I:722:LEU:HD21	1.92	0.52
5:F:711:GLN:HG2	5:F:779:PRO:HB3	1.92	0.52
5:F:1094:GLY:O	5:F:1098:SER:N	2.42	0.52
7:K:535:LYS:CA	8:L:818:ILE:CB	2.75	0.52
8:L:692:LYS:HD2	8:L:695:GLN:NE2	2.25	0.52
1:M:545:PHE:HD2	1:M:549:ASP:HB2	1.74	0.52
1:N:734:GLU:OE2	1:N:738:GLN:NE2	2.43	0.52
2:O:197:ILE:HD13	2:O:224:VAL:HG11	1.91	0.52
2:O:317:LEU:HB2	2:O:318:ILE:HD12	1.92	0.52
3:P:421:VAL:HG13	3:P:491:ARG:HB3	1.92	0.52
3:P:484:GLN:NE2	3:P:565:VAL:HA	2.24	0.52
3:P:944:LEU:O	3:P:947:LEU:HB2	2.10	0.52
4:Q:107:SER:HB2	4:Q:190:GLN:HE22	1.74	0.52
4:Q:180:LYS:NZ	4:Q:184:ASP:OD1	2.40	0.52
5:R:157:GLU:OE1	5:R:183:ARG:NH1	2.42	0.52
5:R:639:LEU:HA	5:R:642:PHE:HB3	1.91	0.52
5:R:929:TYR:O	5:R:931:GLY:N	2.43	0.52
5:R:1360:LEU:C	5:R:1362:ASP:H	2.12	0.52
6:S:296:ALA:HA	6:V:363:LYS:CE	2.39	0.52
7:T:391:GLU:O	7:T:395:ALA:HB3	2.10	0.52
6:V:364:ILE:HG22	6:V:367:ASN:HD21	1.75	0.52
6:V:390:ILE:N	6:V:390:ILE:CD1	2.72	0.52
7:W:321:ALA:HB2	7:W:346:GLN:HA	1.92	0.52
1:Z:431:SER:OG	1:Z:432:ILE:N	2.42	0.52
1:Z:536:ASN:O	1:Z:540:ASN:ND2	2.42	0.52
3:D:792:THR:HA	3:D:830:SER:HB2	1.92	0.52
4:E:681:LEU:HA	4:E:690:LEU:CB	2.40	0.52
4:E:724:SER:HA	4:E:1166:VAL:HA	1.90	0.52
5:F:1227:THR:HA	7:H:472:ASN:HB3	1.92	0.52
6:G:455:GLU:CB	1:Z:32:LEU:CD2	2.79	0.52
8:I:818:ILE:CD1	8:I:818:ILE:N	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:324:GLN:O	6:J:328:GLN:HG2	2.09	0.52
6:J:442:THR:CB	7:K:509:ILE:CD1	2.88	0.52
1:M:590:LEU:HD13	1:M:624:THR:HG23	1.91	0.52
1:N:207:ILE:HD12	1:N:247:GLY:CA	2.29	0.52
1:N:289:LEU:HD23	1:N:308:PHE:HA	1.91	0.52
3:P:186:ILE:CG2	3:P:189:LYS:HB2	2.40	0.52
3:P:233:LEU:HD11	3:P:282:ILE:HD13	1.92	0.52
3:P:977:LYS:HE2	1:Z:315:LYS:C	2.30	0.52
4:Q:1170:ASP:O	4:Q:1174:ASN:ND2	2.42	0.52
5:R:690:GLU:HG3	8:U:722:LEU:CG	2.40	0.52
5:R:711:GLN:HG2	5:R:779:PRO:HB3	1.92	0.52
5:R:838:LYS:HA	5:R:841:PHE:HB2	1.92	0.52
5:R:950:GLU:N	5:R:950:GLU:OE2	2.43	0.52
5:R:1227:THR:HA	7:T:472:ASN:HB3	1.91	0.52
6:V:319:GLU:HA	6:V:322:THR:CG2	2.36	0.52
6:V:382:LYS:N	6:V:382:LYS:CE	2.73	0.52
6:V:404:ASP:O	6:V:408:ALA:CA	2.58	0.52
6:V:405:LEU:HD11	7:W:469:ARG:O	2.10	0.52
8:X:671:LYS:O	8:X:675:GLN:HG2	2.10	0.52
1:Z:391:HIS:NE2	1:Z:417:ARG:O	2.42	0.52
1:A:27:GLU:OE1	1:A:27:GLU:HA	2.10	0.51
4:E:141:LEU:HA	4:E:144:ILE:HD12	1.92	0.51
4:E:182:PHE:HZ	5:F:1189:MET:CB	2.23	0.51
4:E:254:SER:HG	5:F:1191:SER:HG	0.68	0.51
5:F:726:SER:O	5:F:726:SER:OG	2.27	0.51
5:F:929:TYR:O	5:F:931:GLY:N	2.43	0.51
5:F:1510:ASP:N	5:F:1510:ASP:OD1	2.42	0.51
6:J:389:ARG:CZ	6:J:389:ARG:HB3	2.40	0.51
1:N:88:LYS:HZ1	8:U:805:ARG:CB	2.22	0.51
1:N:634:ASP:O	5:R:1618:SER:HB2	2.10	0.51
1:N:639:ASP:OD1	1:N:639:ASP:N	2.43	0.51
1:N:674:LEU:HD21	1:N:724:ARG:HG3	1.91	0.51
3:P:470:SER:HB3	3:P:475:GLU:CG	2.40	0.51
3:P:887:GLN:OE1	3:P:887:GLN:N	2.43	0.51
4:Q:739:ILE:HG21	4:Q:795:ILE:HG22	1.92	0.51
4:Q:1268:SER:OG	4:Q:1269:GLY:N	2.42	0.51
5:R:1370:LEU:O	5:R:1371:ILE:CG1	2.56	0.51
7:T:359:ASN:HA	7:T:362:ASN:HD22	1.75	0.51
8:U:795:LYS:CA	8:U:795:LYS:NZ	2.73	0.51
1:Z:670:LEU:HD13	1:Z:724:ARG:HD3	1.92	0.51
1:A:139:PHE:CD1	1:A:139:PHE:C	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:ASP:O	1:A:456:ARG:NE	2.38	0.51
1:A:641:ILE:HG23	1:A:653:VAL:HG13	1.91	0.51
1:A:817:ALA:HB2	1:A:832:LEU:HD13	1.92	0.51
2:C:1258:GLN:CD	2:C:1299:LYS:HE3	2.30	0.51
3:D:240:LEU:HB3	3:D:263:VAL:CG1	2.40	0.51
3:D:484:GLN:NE2	3:D:565:VAL:HA	2.24	0.51
3:D:528:PRO:CG	3:D:624:PHE:HE2	2.21	0.51
5:F:355:LEU:N	5:F:355:LEU:CD1	2.72	0.51
5:F:950:GLU:N	5:F:950:GLU:OE2	2.43	0.51
5:F:958:SER:HB3	5:F:962:ARG:HA	1.91	0.51
5:F:1150:PHE:CD1	5:F:1150:PHE:C	2.83	0.51
5:F:1550:LEU:HD12	5:F:1604:ILE:HD13	1.87	0.51
6:J:404:ASP:C	6:J:406:PHE:H	2.13	0.51
1:M:817:ALA:HB2	1:M:832:LEU:HD13	1.92	0.51
1:N:830:SER:HB2	3:P:1238:ARG:CG	2.40	0.51
3:P:790:PHE:HB3	3:P:933:ILE:HG21	1.92	0.51
4:Q:33:ASP:OD2	4:Q:946:TRP:NE1	2.40	0.51
5:R:837:TYR:CG	5:R:918:PHE:HE2	2.25	0.51
5:R:1435:LYS:HZ3	5:R:1484:ARG:NH2	2.06	0.51
5:R:1550:LEU:HD12	5:R:1604:ILE:HD13	1.87	0.51
1:Z:215:TYR:HA	1:Z:218:ILE:HD12	1.92	0.51
4:E:1342:LEU:HA	4:E:1346:LYS:HD3	1.92	0.51
5:F:544:TYR:HA	5:F:547:PHE:HD2	1.76	0.51
5:F:809:LEU:HD13	5:F:1252:VAL:HG23	1.93	0.51
5:F:1251:ARG:HH22	5:F:1276:ASP:HB3	1.73	0.51
1:N:623:ILE:HG23	1:N:624:THR:HG23	1.90	0.51
1:N:767:ILE:HD12	1:N:768:VAL:H	1.74	0.51
2:O:1258:GLN:CD	2:O:1299:LYS:HE3	2.30	0.51
5:R:562:LEU:O	5:R:566:THR:OG1	2.23	0.51
5:R:1472:GLU:OE1	5:R:1531:THR:OG1	2.25	0.51
6:V:463:LYS:HE2	7:W:526:VAL:HG11	1.89	0.51
8:X:637:LEU:HD22	8:X:640:LEU:HB2	1.92	0.51
1:A:749:ASP:HB2	2:C:1274:LYS:HZ3	1.75	0.51
3:D:662:LEU:HB3	3:D:667:LEU:CD1	2.40	0.51
4:E:258:ILE:HG22	4:E:261:ILE:HD11	1.92	0.51
4:E:550:SER:OG	4:E:551:ASN:N	2.44	0.51
5:F:562:LEU:O	5:F:566:THR:OG1	2.23	0.51
5:F:841:PHE:HZ	5:F:922:LEU:HD22	1.75	0.51
5:F:1363:ILE:HD12	5:F:1364:TYR:N	2.25	0.51
5:F:1373:ASP:O	5:F:1376:THR:N	2.28	0.51
7:H:391:GLU:O	7:H:395:ALA:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:337:GLN:O	7:K:341:LYS:HD3	2.10	0.51
1:M:641:ILE:HG23	1:M:653:VAL:HG13	1.91	0.51
1:M:760:PHE:CZ	1:M:768:VAL:HG13	2.45	0.51
1:M:837:VAL:HG11	2:O:1142:ASP:HB2	1.93	0.51
3:P:662:LEU:HB3	3:P:667:LEU:CD1	2.40	0.51
3:P:753:PRO:HD2	3:P:756:LYS:CD	2.40	0.51
3:P:863:ILE:HD12	3:P:887:GLN:HG3	1.92	0.51
4:Q:1402:LYS:NZ	4:Q:1454:GLU:OE1	2.43	0.51
5:R:225:SER:HA	5:R:383:ASN:HD21	1.73	0.51
7:T:314:ASN:HB2	7:T:361:ARG:HH12	1.75	0.51
8:U:781:ASN:HD22	8:U:781:ASN:N	2.08	0.51
6:V:324:GLN:HA	6:V:327:LYS:CE	2.35	0.51
6:V:401:ILE:N	6:V:401:ILE:CD1	2.73	0.51
7:W:352:ILE:HG21	7:W:358:LEU:CD2	2.40	0.51
1:A:48:GLU:HA	7:K:514:THR:HG21	1.93	0.51
2:C:885:VAL:CG1	2:C:901:ILE:HG23	2.39	0.51
3:D:421:VAL:HG13	3:D:491:ARG:HB3	1.92	0.51
5:F:543:VAL:HA	5:F:546:TYR:HB2	1.91	0.51
5:F:1132:GLU:HG3	5:F:1135:CYS:HB2	1.93	0.51
5:F:1674:CYS:C	5:F:1676:LEU:H	2.13	0.51
6:G:387:TYR:HA	6:G:390:ILE:HB	1.92	0.51
8:L:671:LYS:O	8:L:675:GLN:HG2	2.10	0.51
3:P:150:LYS:HD3	3:P:153:VAL:CG2	2.39	0.51
3:P:1140:LYS:HZ2	1:Z:204:GLU:HA	0.71	0.51
4:Q:1342:LEU:HA	4:Q:1346:LYS:HD3	1.92	0.51
5:R:1664:ASN:HA	5:R:1667:VAL:HG12	1.92	0.51
6:V:389:ARG:HH11	6:V:389:ARG:CG	2.23	0.51
7:W:389:LYS:CB	7:W:393:ASP:CB	2.88	0.51
8:X:675:GLN:O	8:X:679:LEU:HD13	2.10	0.51
1:Z:482:LEU:O	1:Z:487:LEU:N	2.43	0.51
1:A:128:LEU:HB3	4:E:1260:TYR:CE2	2.40	0.51
3:D:484:GLN:HG3	3:D:564:THR:O	2.10	0.51
3:D:568:GLN:HE21	3:D:573:GLN:HG2	1.76	0.51
3:D:832:VAL:HG23	3:D:929:PHE:CE2	2.46	0.51
3:D:915:GLU:OE2	3:D:980:SER:OG	2.23	0.51
3:D:1018:LEU:HD13	1:N:247:GLY:H	1.76	0.51
4:E:508:ALA:HB1	4:E:512:GLU:HG2	1.93	0.51
4:E:1340:PHE:O	4:E:1344:PHE:HB2	2.11	0.51
5:F:1177:VAL:HA	5:F:1180:TYR:CB	2.40	0.51
5:F:1496:ASP:HA	5:F:1499:LEU:HG	1.93	0.51
5:F:1550:LEU:HD21	5:F:1552:PHE:HZ	1.66	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:795:LYS:CA	8:I:795:LYS:NZ	2.73	0.51
1:N:482:LEU:O	1:N:487:LEU:N	2.43	0.51
1:N:621:HIS:CE1	3:P:1467:SER:HB2	2.45	0.51
3:P:832:VAL:HG23	3:P:929:PHE:CE2	2.46	0.51
4:Q:681:LEU:HA	4:Q:690:LEU:CB	2.40	0.51
5:R:1150:PHE:C	5:R:1150:PHE:CD1	2.83	0.51
5:R:1177:VAL:HA	5:R:1180:TYR:CB	2.40	0.51
5:R:1363:ILE:HD12	5:R:1364:TYR:N	2.25	0.51
5:R:1496:ASP:HA	5:R:1499:LEU:HG	1.93	0.51
8:X:647:GLN:HA	8:X:650:GLU:HG2	1.93	0.51
1:Z:139:PHE:CD1	1:Z:139:PHE:C	2.84	0.51
1:Z:278:LEU:HD22	1:Z:437:TRP:HB2	1.92	0.51
1:Z:734:GLU:OE2	1:Z:738:GLN:NE2	2.43	0.51
3:D:863:ILE:HD12	3:D:887:GLN:HG3	1.92	0.51
4:E:86:ASP:OD1	4:E:86:ASP:N	2.44	0.51
5:F:1427:LEU:HD22	5:F:1466:LEU:HG	1.91	0.51
6:J:433:LYS:CA	7:K:499:GLY:CA	2.88	0.51
3:P:240:LEU:HB3	3:P:263:VAL:CG1	2.41	0.51
3:P:358:GLN:OE1	3:P:422:LYS:HG3	2.11	0.51
3:P:377:ILE:HB	3:P:393:ILE:HB	1.93	0.51
3:P:484:GLN:HG3	3:P:564:THR:O	2.10	0.51
3:P:828:ILE:CD1	3:P:925:GLN:HA	2.41	0.51
4:Q:114:TYR:HB2	4:Q:194:ILE:HD11	1.93	0.51
5:R:665:GLU:HB2	5:R:720:HIS:NE2	2.25	0.51
5:R:836:ILE:N	5:R:836:ILE:HD12	2.26	0.51
5:R:841:PHE:HZ	5:R:922:LEU:HD22	1.75	0.51
5:R:1132:GLU:HG3	5:R:1135:CYS:HB2	1.92	0.51
5:R:1435:LYS:HZ2	5:R:1484:ARG:HH22	1.57	0.51
6:S:431:GLN:CB	7:T:503:ASN:H	2.22	0.51
6:V:383:LYS:CE	8:X:756:ASN:HA	2.22	0.51
7:W:402:GLN:C	7:W:402:GLN:HE21	2.14	0.51
8:X:692:LYS:HD2	8:X:695:GLN:NE2	2.25	0.51
3:D:790:PHE:HB3	3:D:933:ILE:HG21	1.92	0.51
5:F:177:GLN:O	5:F:181:PHE:HB2	2.10	0.51
5:F:355:LEU:HD12	5:F:355:LEU:H	1.74	0.51
5:F:1012:ASN:O	8:I:787:GLU:CG	2.52	0.51
5:F:1300:LEU:HD23	5:F:1300:LEU:C	2.31	0.51
1:M:139:PHE:C	1:M:139:PHE:CD1	2.84	0.51
1:N:533:ARG:HH21	1:N:534:PHE:HB3	1.76	0.51
3:P:499:LEU:CB	3:P:502:SER:HB3	2.35	0.51
3:P:792:THR:HA	3:P:830:SER:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:969:SER:O	3:P:972:ASN:HB2	2.10	0.51
4:Q:508:ALA:HB1	4:Q:512:GLU:HG2	1.93	0.51
4:Q:550:SER:OG	4:Q:551:ASN:N	2.44	0.51
5:R:1360:LEU:N	5:R:1360:LEU:CD1	2.73	0.51
5:R:1370:LEU:O	5:R:1371:ILE:CB	2.58	0.51
7:T:511:GLU:CB	8:U:800:HIS:HE1	2.24	0.51
8:U:794:ILE:HA	8:U:797:LEU:HD13	1.93	0.51
6:V:432:LEU:HA	8:X:782:ILE:O	2.10	0.51
7:W:526:VAL:O	7:W:530:ASP:HB2	2.11	0.51
1:Z:639:ASP:OD1	1:Z:639:ASP:N	2.43	0.51
1:Z:767:ILE:HD12	1:Z:768:VAL:H	1.74	0.51
1:A:193:LEU:HB3	1:A:546:ARG:HH12	1.76	0.51
3:D:353:GLN:OE1	3:D:374:LYS:HB2	2.11	0.51
5:F:378:ALA:O	5:F:383:ASN:HA	2.11	0.51
5:F:690:GLU:HG3	8:I:722:LEU:CG	2.40	0.51
5:F:1376:THR:O	5:F:1376:THR:OG1	2.24	0.51
5:F:1529:ALA:HB1	5:F:1611:VAL:HG13	1.83	0.51
7:H:309:ARG:NE	7:H:353:TYR:OH	2.38	0.51
6:J:382:LYS:N	6:J:382:LYS:CE	2.73	0.51
7:K:308:LEU:HB3	7:K:355:PHE:CZ	2.46	0.51
7:K:313:TYR:CD1	7:K:349:PRO:HB3	2.45	0.51
1:M:626:GLN:O	1:M:630:ARG:HG2	2.11	0.51
1:N:139:PHE:CD1	1:N:139:PHE:C	2.84	0.51
5:R:154:GLN:HA	5:R:157:GLU:HG3	1.92	0.51
5:R:1037:ASN:N	5:R:1040:THR:CB	2.69	0.51
5:R:1532:ARG:NH1	5:R:1615:MET:SD	2.84	0.51
6:S:387:TYR:HA	6:S:390:ILE:HB	1.92	0.51
7:T:418:GLN:CD	8:U:718:THR:HG21	2.26	0.51
8:U:750:THR:O	8:U:753:GLU:HB3	2.11	0.51
7:W:308:LEU:HB3	7:W:355:PHE:CZ	2.46	0.51
7:W:336:ASP:HB3	7:W:340:GLU:OE1	2.11	0.51
7:W:508:LYS:NZ	1:Z:16:LYS:HB2	2.26	0.51
1:A:123:MET:O	6:J:414:SER:CB	2.59	0.51
1:A:626:GLN:O	1:A:630:ARG:HG2	2.11	0.51
3:D:377:ILE:HB	3:D:393:ILE:HB	1.93	0.51
3:D:970:ILE:HG23	3:D:975:ILE:CD1	2.40	0.51
4:E:1259:PHE:O	4:E:1259:PHE:HD1	1.94	0.51
5:F:334:GLN:NE2	5:F:859:LYS:HD2	2.26	0.51
5:F:914:ASP:HA	5:F:917:PHE:H	1.76	0.51
5:F:920:ILE:HB	5:F:924:ALA:CA	2.41	0.51
5:F:1370:LEU:O	5:F:1371:ILE:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1439:GLU:HA	5:F:1442:TRP:HB3	1.93	0.51
5:F:1532:ARG:NH1	5:F:1615:MET:SD	2.84	0.51
6:G:350:PHE:CZ	7:H:418:GLN:NE2	2.79	0.51
6:J:310:ARG:NE	6:J:314:TYR:OH	2.44	0.51
7:K:321:ALA:HB2	7:K:346:GLN:HA	1.92	0.51
1:M:137:ASP:OD2	4:Q:1385:LEU:HD12	2.11	0.51
1:N:254:LEU:O	1:N:258:LYS:HG2	2.10	0.51
1:N:621:HIS:CE1	3:P:1468:TYR:N	2.77	0.51
3:P:586:LEU:HD21	3:P:592:TYR:HD1	1.76	0.51
4:Q:141:LEU:HA	4:Q:144:ILE:HD12	1.92	0.51
4:Q:725:LEU:HD23	4:Q:1167:LEU:HA	1.93	0.51
5:R:332:VAL:CG1	5:R:335:ASP:HA	2.40	0.51
5:R:334:GLN:NE2	5:R:859:LYS:HD2	2.26	0.51
5:R:616:VAL:HG12	5:R:656:VAL:HG21	1.93	0.51
6:V:390:ILE:CG2	6:V:394:ILE:HG23	2.40	0.51
7:W:337:GLN:O	7:W:341:LYS:HD3	2.10	0.51
1:A:599:ARG:NH1	1:A:605:GLU:OE2	2.44	0.50
1:A:760:PHE:CZ	1:A:768:VAL:HG13	2.45	0.50
2:C:317:LEU:HB2	2:C:318:ILE:HD12	1.92	0.50
4:E:1402:LYS:NZ	4:E:1454:GLU:OE1	2.43	0.50
5:F:332:VAL:CG1	5:F:335:ASP:HA	2.40	0.50
5:F:838:LYS:HA	5:F:841:PHE:HB2	1.92	0.50
6:J:437:ALA:O	6:J:439:ILE:N	2.44	0.50
6:J:462:GLN:HE22	8:L:812:THR:HG23	1.76	0.50
1:N:140:ILE:HA	1:N:143:ASN:HB3	1.93	0.50
4:Q:1017:LEU:O	4:Q:1021:THR:OG1	2.26	0.50
5:R:452:LYS:HE3	5:R:456:ALA:HB2	1.92	0.50
5:R:544:TYR:HA	5:R:547:PHE:HD2	1.76	0.50
5:R:914:ASP:HA	5:R:917:PHE:H	1.76	0.50
5:R:1392:ILE:CB	5:R:1405:PHE:CE2	2.93	0.50
8:U:643:LYS:O	8:U:647:GLN:NE2	2.44	0.50
8:U:742:GLN:HB3	8:U:746:LYS:HZ2	1.75	0.50
6:V:437:ALA:O	6:V:439:ILE:N	2.44	0.50
6:V:462:GLN:HE22	8:X:812:THR:HG23	1.76	0.50
8:X:692:LYS:HD2	8:X:695:GLN:HE21	1.75	0.50
8:X:696:SER:O	8:X:699:TYR:HB2	2.11	0.50
1:Z:12:SER:HG	1:Z:15:SER:HG	1.44	0.50
1:A:837:VAL:HG11	2:C:1142:ASP:HB2	1.93	0.50
2:C:970:PHE:CE2	2:C:974:ILE:HD11	2.46	0.50
3:D:977:LYS:HD3	1:N:316:ALA:N	2.19	0.50
4:E:1017:LEU:O	4:E:1021:THR:OG1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:1022:TYR:CD2	4:E:1026:THR:HG22	2.38	0.50
5:F:665:GLU:HB2	5:F:720:HIS:NE2	2.25	0.50
5:F:914:ASP:CA	5:F:917:PHE:CB	2.85	0.50
7:H:397:ARG:NH1	8:I:701:GLU:OE1	2.43	0.50
8:I:643:LYS:O	8:I:647:GLN:NE2	2.44	0.50
7:K:365:GLN:HA	7:K:368:ASN:HD22	1.76	0.50
7:K:536:LYS:HA	7:K:539:ASN:HB2	1.94	0.50
1:M:516:PHE:HZ	1:M:532:ILE:HG22	1.76	0.50
4:Q:477:LEU:HA	4:Q:499:ILE:HA	1.93	0.50
4:Q:936:LEU:O	4:Q:940:SER:OG	2.26	0.50
5:R:812:CYS:SG	5:R:813:GLU:N	2.84	0.50
5:R:838:LYS:O	5:R:842:ASN:HB2	2.12	0.50
5:R:1147:PHE:CD1	5:R:1147:PHE:C	2.85	0.50
5:R:1469:ARG:HH22	5:R:1530:GLU:HB3	1.76	0.50
5:R:1674:CYS:C	5:R:1676:LEU:H	2.13	0.50
6:V:433:LYS:CA	7:W:499:GLY:CA	2.88	0.50
7:W:375:ILE:O	7:W:379:ILE:HG22	2.11	0.50
7:W:522:TYR:C	7:W:522:TYR:CD1	2.85	0.50
8:X:692:LYS:O	8:X:695:GLN:HG3	2.11	0.50
3:D:518:GLU:HA	3:D:536:ILE:CD1	2.41	0.50
3:D:828:ILE:CD1	3:D:925:GLN:HA	2.41	0.50
5:F:713:PHE:HA	5:F:716:LEU:HB2	1.93	0.50
5:F:812:CYS:SG	5:F:813:GLU:N	2.84	0.50
5:F:836:ILE:N	5:F:836:ILE:HD12	2.26	0.50
7:K:389:LYS:CA	7:K:393:ASP:CB	2.39	0.50
1:M:128:LEU:CD1	4:Q:1260:TYR:OH	2.44	0.50
1:M:414:LEU:HD21	1:M:438:MET:HB2	1.94	0.50
1:N:116:LYS:HZ3	1:N:116:LYS:CB	2.11	0.50
1:N:242:LEU:O	1:N:250:ASN:CB	2.59	0.50
2:O:970:PHE:CE2	2:O:974:ILE:HD11	2.46	0.50
3:P:1494:ASN:O	5:R:1471:LYS:CE	2.60	0.50
5:R:472:ILE:HG23	5:R:474:LEU:H	1.76	0.50
5:R:713:PHE:HA	5:R:716:LEU:HB2	1.93	0.50
5:R:1674:CYS:C	5:R:1676:LEU:N	2.65	0.50
7:T:397:ARG:NH1	8:U:701:GLU:OE1	2.43	0.50
6:V:281:ASP:O	6:V:284:ILE:HB	2.11	0.50
7:W:387:GLN:NE2	7:W:387:GLN:CA	2.73	0.50
8:X:637:LEU:CD2	8:X:640:LEU:H	2.24	0.50
8:X:667:GLN:NE2	8:X:668:VAL:HG23	2.26	0.50
1:A:414:LEU:HD21	1:A:438:MET:HB2	1.94	0.50
3:D:873:SER:CB	3:D:877:VAL:HB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:616:VAL:HG12	5:F:656:VAL:HG21	1.92	0.50
5:F:681:LYS:HE3	5:F:685:LEU:HA	1.93	0.50
5:F:1502:THR:H	5:F:1510:ASP:HB2	1.77	0.50
5:F:1618:SER:HB2	1:Z:634:ASP:O	2.10	0.50
8:I:794:ILE:HA	8:I:797:LEU:HD13	1.93	0.50
6:J:281:ASP:O	6:J:284:ILE:HB	2.11	0.50
8:L:696:SER:O	8:L:699:TYR:HB2	2.11	0.50
1:M:764:ASP:O	1:M:768:VAL:HG23	2.12	0.50
1:N:820:ILE:O	1:N:821:GLN:C	2.49	0.50
4:Q:1259:PHE:O	4:Q:1259:PHE:HD1	1.94	0.50
5:R:920:ILE:HB	5:R:924:ALA:CA	2.41	0.50
6:V:429:LEU:HA	6:V:434:THR:N	2.24	0.50
7:W:289:GLN:O	7:W:292:VAL:HB	2.11	0.50
1:A:818:GLY:O	1:A:821:GLN:NE2	2.40	0.50
3:D:175:ILE:CD1	3:D:642:LEU:HB2	2.36	0.50
4:E:757:LYS:HA	5:F:1195:PHE:HD2	1.77	0.50
7:K:389:LYS:CB	7:K:393:ASP:CB	2.87	0.50
1:M:787:HIS:HE1	1:M:838:SER:O	1.90	0.50
1:N:59:LYS:CB	8:U:814:LEU:HD23	2.39	0.50
1:N:215:TYR:HA	1:N:218:ILE:HD12	1.92	0.50
3:P:518:GLU:HA	3:P:536:ILE:CD1	2.41	0.50
5:R:159:LYS:CE	5:R:363:ASP:CA	2.88	0.50
6:V:277:ILE:CD1	6:V:280:LEU:HD23	2.42	0.50
1:Z:136:PHE:C	1:Z:136:PHE:CD1	2.85	0.50
1:Z:576:LEU:HA	1:Z:579:LEU:HB2	1.94	0.50
1:A:516:PHE:HZ	1:A:532:ILE:HG22	1.76	0.50
3:D:507:LEU:HA	3:D:512:LYS:O	2.12	0.50
8:I:742:GLN:HB3	8:I:746:LYS:HZ2	1.76	0.50
6:J:309:PRO:O	6:J:312:VAL:HB	2.12	0.50
7:K:402:GLN:HE21	7:K:402:GLN:C	2.14	0.50
7:K:504:ASP:O	7:K:507:ASN:N	2.44	0.50
8:L:647:GLN:HA	8:L:650:GLU:HG2	1.93	0.50
1:N:55:GLN:N	7:T:522:TYR:CB	2.75	0.50
3:P:412:ILE:HG22	3:P:476:VAL:HB	1.93	0.50
5:R:378:ALA:O	5:R:383:ASN:HA	2.11	0.50
5:R:555:TRP:HA	5:R:558:ILE:HG12	1.94	0.50
5:R:1502:THR:H	5:R:1510:ASP:HB2	1.76	0.50
6:V:390:ILE:N	6:V:390:ILE:HD12	2.26	0.50
8:X:638:ASP:HA	8:X:641:VAL:CG2	2.42	0.50
8:X:650:GLU:HG3	8:X:651:SER:N	2.27	0.50
1:A:137:ASP:OD2	4:E:1385:LEU:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:810:MET:N	4:E:810:MET:SD	2.84	0.50
5:F:452:LYS:HE3	5:F:456:ALA:HB2	1.92	0.50
5:F:555:TRP:HA	5:F:558:ILE:HG12	1.94	0.50
5:F:1167:LYS:HD3	5:F:1167:LYS:C	2.30	0.50
5:F:1370:LEU:O	5:F:1371:ILE:HB	2.12	0.50
5:F:1674:CYS:C	5:F:1676:LEU:N	2.65	0.50
7:K:336:ASP:HB3	7:K:340:GLU:OE1	2.11	0.50
8:L:637:LEU:CD2	8:L:640:LEU:H	2.24	0.50
8:L:650:GLU:HG3	8:L:651:SER:N	2.27	0.50
1:M:413:LYS:HD2	1:M:425:ILE:HD11	1.94	0.50
1:N:771:ILE:HG22	1:N:772:PRO:HD3	1.94	0.50
3:P:375:SER:HB3	3:P:420:ILE:HG13	1.93	0.50
3:P:568:GLN:HE21	3:P:573:GLN:HG2	1.76	0.50
3:P:578:VAL:O	3:P:596:ALA:HA	2.12	0.50
3:P:586:LEU:HD11	3:P:592:TYR:HA	1.94	0.50
4:Q:411:PHE:O	4:Q:415:PHE:HB3	2.11	0.50
4:Q:810:MET:SD	4:Q:810:MET:N	2.84	0.50
5:R:1014:SER:N	8:U:788:ASP:O	2.41	0.50
6:S:350:PHE:CZ	7:T:418:GLN:NE2	2.79	0.50
8:U:740:LYS:O	8:U:743:GLN:NE2	2.45	0.50
7:W:310:ALA:HB3	7:W:352:ILE:CB	2.40	0.50
1:A:224:ASN:OD1	1:A:607:ARG:NH2	2.41	0.50
3:D:358:GLN:OE1	3:D:422:LYS:HG3	2.11	0.50
3:D:586:LEU:HD21	3:D:592:TYR:HD1	1.75	0.50
3:D:887:GLN:OE1	3:D:887:GLN:N	2.43	0.50
3:D:1137:ASP:N	1:N:205:ASN:HA	2.27	0.50
4:E:725:LEU:HD23	4:E:1167:LEU:HA	1.93	0.50
4:E:1275:GLU:HA	4:E:1278:ILE:HD12	1.94	0.50
5:F:838:LYS:O	5:F:842:ASN:HB2	2.12	0.50
8:I:740:LYS:O	8:I:743:GLN:NE2	2.45	0.50
6:J:433:LYS:CA	7:K:499:GLY:HA3	2.42	0.50
7:K:355:PHE:CD1	7:K:358:LEU:HD12	2.45	0.50
1:M:54:PHE:HA	1:M:57:ARG:HD3	1.94	0.50
1:M:193:LEU:HB3	1:M:546:ARG:HH12	1.76	0.50
1:M:739:MET:SD	1:M:778:THR:OG1	2.63	0.50
1:N:46:ILE:CB	6:S:327:LYS:HZ2	2.23	0.50
1:N:86:PHE:CD1	1:N:86:PHE:N	2.79	0.50
1:N:576:LEU:HA	1:N:579:LEU:HB2	1.94	0.50
1:N:771:ILE:HG22	1:N:772:PRO:HD2	1.94	0.50
3:P:631:GLN:NE2	3:P:656:ASP:OD2	2.44	0.50
4:Q:1022:TYR:CZ	4:Q:1026:THR:CG2	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1275:GLU:HA	4:Q:1278:ILE:HD12	1.94	0.50
4:Q:1429:HIS:HD2	4:Q:1474:LEU:HD22	1.77	0.50
5:R:50:GLN:NE2	5:R:57:GLU:OE2	2.45	0.50
5:R:1300:LEU:C	5:R:1300:LEU:HD23	2.32	0.50
5:R:1477:ASP:O	5:R:1481:LYS:N	2.45	0.50
6:S:427:GLU:CG	8:U:779:THR:HG21	2.41	0.50
7:T:443:LEU:HA	7:T:446:ARG:HB2	1.94	0.50
7:W:456:THR:C	7:W:458:GLU:N	2.64	0.50
1:Z:223:ASN:ND2	1:Z:555:GLU:OE2	2.35	0.50
1:Z:440:LEU:HA	1:Z:443:ILE:HG12	1.94	0.50
5:F:343:ASP:OD2	5:F:702:LYS:NZ	2.38	0.50
5:F:1088:ARG:NH1	5:F:1088:ARG:CG	2.73	0.50
5:F:1469:ARG:HH22	5:F:1530:GLU:HB3	1.76	0.50
6:G:427:GLU:CG	8:I:779:THR:HG21	2.41	0.50
7:H:317:ASN:HA	7:H:346:GLN:HB3	1.94	0.50
7:H:359:ASN:HA	7:H:362:ASN:HD22	1.75	0.50
7:H:412:ILE:HG22	7:H:415:LEU:HD23	1.94	0.50
8:I:750:THR:O	8:I:753:GLU:HB3	2.11	0.50
6:J:400:GLY:HA2	6:J:403:THR:HB	1.93	0.50
7:K:375:ILE:O	7:K:379:ILE:HG22	2.11	0.50
7:K:429:LEU:HB2	8:L:741:ARG:CZ	2.42	0.50
8:L:637:LEU:HD22	8:L:640:LEU:HB2	1.92	0.50
1:M:814:MET:HB2	1:M:836:ASP:OD2	2.12	0.50
1:N:149:ALA:CB	5:R:1672:MET:CB	2.84	0.50
1:N:275:LYS:NZ	1:N:441:MET:SD	2.81	0.50
4:Q:1340:PHE:O	4:Q:1344:PHE:HB2	2.11	0.50
5:R:681:LYS:HE3	5:R:685:LEU:HA	1.93	0.50
5:R:684:SER:HB3	5:R:695:ALA:HB2	1.94	0.50
5:R:809:LEU:HD13	5:R:1252:VAL:HG23	1.92	0.50
5:R:900:LEU:HD13	5:R:904:TYR:CE1	2.47	0.50
5:R:1439:GLU:HA	5:R:1442:TRP:HB3	1.93	0.50
1:Z:253:LEU:N	1:Z:253:LEU:CD2	2.74	0.50
1:Z:494:TYR:O	1:Z:497:THR:OG1	2.26	0.50
1:Z:771:ILE:HG22	1:Z:772:PRO:HD3	1.94	0.50
1:A:558:VAL:HG22	1:A:611:LEU:HD21	1.93	0.49
1:A:814:MET:HB2	1:A:836:ASP:OD2	2.12	0.49
4:E:185:LEU:HD23	4:E:188:ILE:HD11	1.94	0.49
4:E:200:LEU:HD13	4:E:271:LEU:HD22	1.94	0.49
4:E:260:ARG:HG2	4:E:260:ARG:NH1	2.12	0.49
4:E:411:PHE:O	4:E:415:PHE:HB3	2.11	0.49
5:F:668:ARG:O	5:F:672:TRP:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:900:LEU:HD22	5:F:904:TYR:CZ	2.47	0.49
5:F:968:ILE:CG2	7:H:392:LEU:HD11	2.37	0.49
5:F:1477:ASP:O	5:F:1481:LYS:N	2.45	0.49
7:H:522:TYR:CB	1:Z:55:GLN:N	2.75	0.49
1:M:123:MET:O	6:V:414:SER:CB	2.60	0.49
1:M:451:ASP:O	1:M:456:ARG:NE	2.38	0.49
1:N:149:ALA:HB1	5:R:1671:VAL:HG13	1.94	0.49
1:N:761:SER:C	1:N:763:LEU:H	2.15	0.49
3:P:119:PRO:HB3	3:P:739:THR:CG2	2.42	0.49
3:P:653:ARG:HG3	3:P:657:GLU:HB2	1.94	0.49
5:R:320:GLU:OE1	5:R:351:HIS:HE1	1.92	0.49
7:T:418:GLN:HE22	8:U:718:THR:HG23	1.61	0.49
1:Z:245:ALA:HA	1:Z:250:ASN:CB	2.42	0.49
3:D:449:ASN:HB3	3:D:463:GLU:CG	2.41	0.49
3:D:499:LEU:CB	3:D:502:SER:HB3	2.35	0.49
7:H:418:GLN:CD	8:I:718:THR:HG21	2.26	0.49
7:H:443:LEU:HA	7:H:446:ARG:HB2	1.94	0.49
8:L:692:LYS:O	8:L:695:GLN:HG3	2.11	0.49
1:M:558:VAL:HG22	1:M:611:LEU:HD21	1.93	0.49
1:N:771:ILE:CB	1:N:772:PRO:HD2	2.42	0.49
3:P:442:GLY:HA2	3:P:488:GLN:HG2	1.94	0.49
3:P:836:LYS:HB2	3:P:914:TYR:CD1	2.47	0.49
5:R:334:GLN:NE2	5:R:859:LYS:CE	2.68	0.49
5:R:900:LEU:HD22	5:R:904:TYR:CZ	2.47	0.49
5:R:1139:ILE:HG12	5:R:1291:SER:CB	2.42	0.49
5:R:1370:LEU:O	5:R:1371:ILE:HB	2.12	0.49
8:U:795:LYS:HE3	8:U:799:SER:HB3	1.94	0.49
6:V:405:LEU:CD1	7:W:469:ARG:C	2.65	0.49
1:Z:533:ARG:HH21	1:Z:534:PHE:HB3	1.76	0.49
1:A:505:HIS:HE1	1:A:541:TYR:OH	1.96	0.49
1:A:764:ASP:O	1:A:768:VAL:HG23	2.12	0.49
3:D:375:SER:HB3	3:D:420:ILE:HG13	1.93	0.49
3:D:412:ILE:HG22	3:D:476:VAL:HB	1.93	0.49
4:E:822:ASN:O	4:E:826:SER:HB3	2.13	0.49
5:F:684:SER:HB3	5:F:695:ALA:HB2	1.94	0.49
5:F:959:LEU:CB	6:G:325:TYR:HB2	2.42	0.49
7:K:310:ALA:CB	7:K:352:ILE:HB	2.38	0.49
7:K:430:GLY:C	7:K:432:ALA:N	2.65	0.49
1:M:599:ARG:NH1	1:M:605:GLU:OE2	2.44	0.49
1:N:84:ASP:CB	6:S:449:LEU:HD23	2.42	0.49
3:P:353:GLN:OE1	3:P:374:LYS:HB2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:449:ASN:HB3	3:P:463:GLU:CG	2.41	0.49
3:P:491:ARG:CB	3:P:520:THR:HB	2.42	0.49
3:P:745:ILE:HG13	3:P:746:THR:H	1.77	0.49
5:R:355:LEU:N	5:R:355:LEU:CD1	2.72	0.49
5:R:1510:ASP:OD1	5:R:1510:ASP:N	2.42	0.49
6:V:310:ARG:NE	6:V:314:TYR:OH	2.44	0.49
1:Z:771:ILE:CB	1:Z:772:PRO:HD2	2.42	0.49
1:Z:820:ILE:O	1:Z:821:GLN:C	2.49	0.49
1:A:684:ASN:HB3	1:A:687:LEU:HB2	1.93	0.49
3:D:836:LYS:HB2	3:D:914:TYR:CD1	2.47	0.49
4:E:477:LEU:HA	4:E:499:ILE:HA	1.93	0.49
4:E:1294:ASP:O	4:E:1298:ASN:N	2.42	0.49
4:E:1429:HIS:HD2	4:E:1474:LEU:HD22	1.77	0.49
5:F:159:LYS:CE	5:F:363:ASP:CA	2.88	0.49
5:F:669:THR:HA	5:F:672:TRP:HB2	1.94	0.49
5:F:913:TYR:O	5:F:917:PHE:N	2.46	0.49
5:F:1667:VAL:HA	5:F:1670:ILE:HG22	1.95	0.49
7:H:344:SER:O	7:H:347:THR:OG1	2.31	0.49
6:J:277:ILE:CD1	6:J:280:LEU:HD23	2.42	0.49
6:J:364:ILE:C	7:K:424:ASN:HD22	2.15	0.49
7:K:289:GLN:O	7:K:292:VAL:HB	2.12	0.49
1:N:278:LEU:HD22	1:N:437:TRP:HB2	1.92	0.49
1:N:440:LEU:HA	1:N:443:ILE:HG12	1.94	0.49
3:P:449:ASN:ND2	3:P:461:ARG:HB2	2.27	0.49
4:Q:878:PHE:HZ	4:Q:917:PRO:HB3	1.77	0.49
4:Q:989:ASP:O	4:Q:992:SER:N	2.36	0.49
4:Q:1484:LYS:HZ2	4:Q:1486:GLU:HB2	1.77	0.49
5:R:973:ASP:O	5:R:975:SER:N	2.44	0.49
5:R:1373:ASP:O	5:R:1376:THR:N	2.28	0.49
7:W:365:GLN:HA	7:W:368:ASN:HD22	1.77	0.49
7:W:429:LEU:HB2	8:X:741:ARG:CZ	2.42	0.49
8:X:643:LYS:HG3	8:X:647:GLN:NE2	2.22	0.49
3:D:170:LYS:NZ	3:D:212:GLN:O	2.37	0.49
3:D:653:ARG:HG3	3:D:657:GLU:HB2	1.93	0.49
4:E:186:LYS:HE2	4:E:834:ILE:HG23	1.95	0.49
5:F:50:GLN:NE2	5:F:57:GLU:OE2	2.45	0.49
5:F:472:ILE:HG23	5:F:474:LEU:H	1.76	0.49
5:F:900:LEU:HD13	5:F:904:TYR:CE1	2.47	0.49
5:F:1641:PHE:HA	5:F:1644:ASP:HB2	1.95	0.49
6:G:431:GLN:CB	7:H:503:ASN:H	2.22	0.49
6:G:455:GLU:HB2	1:Z:32:LEU:CD2	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:816:LYS:HE2	8:I:816:LYS:N	2.28	0.49
6:J:388:CYS:SG	6:J:391:LEU:HB2	2.52	0.49
8:L:667:GLN:NE2	8:L:668:VAL:HG23	2.26	0.49
1:M:205:ASN:OD1	1:M:208:LEU:HB2	2.12	0.49
3:P:507:LEU:HA	3:P:512:LYS:O	2.12	0.49
3:P:932:ILE:CG2	3:P:933:ILE:HG13	2.41	0.49
4:Q:27:ALA:O	4:Q:119:ASN:ND2	2.45	0.49
4:Q:186:LYS:HE2	4:Q:834:ILE:HG23	1.95	0.49
5:R:161:GLN:HA	5:R:164:LYS:HG3	1.95	0.49
5:R:1529:ALA:HB2	5:R:1611:VAL:CG2	2.42	0.49
5:R:1529:ALA:HB2	5:R:1611:VAL:HG22	1.95	0.49
7:T:309:ARG:NH2	7:T:334:GLU:OE2	2.45	0.49
6:V:309:PRO:O	6:V:312:VAL:HB	2.12	0.49
7:W:313:TYR:HA	7:W:349:PRO:CB	2.40	0.49
1:Z:140:ILE:HA	1:Z:143:ASN:HB3	1.93	0.49
1:A:32:LEU:C	1:A:32:LEU:HD23	2.33	0.49
1:A:54:PHE:HA	1:A:57:ARG:HD3	1.94	0.49
1:A:270:ILE:HD13	1:A:486:GLY:HA3	1.95	0.49
4:E:936:LEU:O	4:E:940:SER:OG	2.26	0.49
4:E:1460:LEU:O	4:E:1463:SER:OG	2.31	0.49
5:F:1092:THR:O	5:F:1092:THR:OG1	2.23	0.49
5:F:1543:LEU:O	5:F:1547:ILE:HG22	2.13	0.49
5:F:1671:VAL:HG13	1:Z:149:ALA:HB1	1.94	0.49
8:I:795:LYS:HE3	8:I:799:SER:HB3	1.94	0.49
6:J:377:ILE:HG22	6:J:378:HIS:CD2	2.47	0.49
6:J:391:LEU:HA	6:J:394:ILE:HG12	1.95	0.49
3:P:873:SER:CB	3:P:877:VAL:HB	2.42	0.49
4:Q:1063:ASP:N	4:Q:1063:ASP:OD1	2.45	0.49
5:R:959:LEU:CB	6:S:325:TYR:HB2	2.43	0.49
5:R:1048:LEU:O	5:R:1051:SER:OG	2.26	0.49
8:U:818:ILE:CD1	8:U:818:ILE:N	2.72	0.49
6:V:364:ILE:C	7:W:424:ASN:HD22	2.15	0.49
6:V:364:ILE:C	7:W:424:ASN:ND2	2.65	0.49
6:V:433:LYS:CA	7:W:499:GLY:HA3	2.42	0.49
1:Z:211:LYS:HZ3	1:Z:246:ASN:ND2	2.06	0.49
1:Z:766:ASN:OD1	1:Z:766:ASN:N	2.39	0.49
1:A:787:HIS:HE1	1:A:838:SER:O	1.90	0.49
3:D:442:GLY:HA2	3:D:488:GLN:HG2	1.95	0.49
4:E:114:TYR:HB2	4:E:194:ILE:HD11	1.93	0.49
4:E:995:LEU:HA	4:E:998:LEU:HB2	1.95	0.49
4:E:1259:PHE:C	4:E:1259:PHE:HD1	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:973:ASP:O	5:F:975:SER:N	2.44	0.49
5:F:1139:ILE:HG12	5:F:1291:SER:CB	2.42	0.49
5:F:1373:ASP:O	5:F:1375:GLY:N	2.45	0.49
5:F:1529:ALA:HB2	5:F:1611:VAL:CG2	2.42	0.49
6:G:449:LEU:HD23	1:Z:84:ASP:CB	2.42	0.49
6:G:449:LEU:HD23	1:Z:84:ASP:OD1	2.13	0.49
6:G:470:LEU:CB	7:H:538:LYS:HZ1	2.06	0.49
8:I:822:LYS:CE	8:I:822:LYS:CA	2.84	0.49
6:J:350:PHE:HD1	7:K:419:LEU:HD12	1.73	0.49
6:J:370:ASP:HA	6:J:373:PHE:CB	2.40	0.49
6:J:388:CYS:HB2	7:K:455:LYS:HD2	0.64	0.49
1:N:753:ALA:HB2	1:N:815:ILE:CB	2.43	0.49
3:P:421:VAL:HG21	3:P:490:LYS:CB	2.41	0.49
4:Q:258:ILE:O	4:Q:260:ARG:N	2.45	0.49
4:Q:1259:PHE:C	4:Q:1259:PHE:HD1	2.16	0.49
5:R:288:TRP:O	5:R:295:ARG:NH2	2.45	0.49
5:R:1249:ILE:HA	5:R:1252:VAL:HG12	1.95	0.49
6:V:390:ILE:HG22	6:V:394:ILE:HG23	1.92	0.49
1:Z:771:ILE:CG2	1:Z:772:PRO:HD2	2.42	0.49
1:A:342:ARG:NE	1:A:434:ASP:OD1	2.41	0.49
3:D:631:GLN:NE2	3:D:656:ASP:OD2	2.44	0.49
3:D:753:PRO:HD2	3:D:756:LYS:CD	2.40	0.49
4:E:27:ALA:O	4:E:119:ASN:ND2	2.45	0.49
5:F:989:SER:O	5:F:989:SER:OG	2.26	0.49
7:K:315:LYS:HA	7:K:347:THR:CA	2.38	0.49
1:M:270:ILE:HD13	1:M:486:GLY:HA3	1.95	0.49
1:M:315:LYS:HD2	1:M:319:SER:OG	2.13	0.49
1:N:23:ASN:C	1:N:25:LEU:N	2.64	0.49
1:N:136:PHE:CD1	1:N:136:PHE:C	2.85	0.49
1:N:771:ILE:CG2	1:N:772:PRO:HD2	2.42	0.49
3:P:539:SER:HA	3:P:545:GLN:HE22	1.78	0.49
3:P:1020:ASN:HA	1:Z:249:ARG:C	2.33	0.49
4:Q:757:LYS:HA	5:R:1195:PHE:HD2	1.76	0.49
5:R:923:VAL:HG23	5:R:925:HIS:H	1.77	0.49
5:R:927:GLY:HA3	5:R:978:ILE:HD11	1.95	0.49
5:R:971:SER:OG	5:R:972:VAL:N	2.46	0.49
5:R:1067:ASN:OD1	5:R:1067:ASN:N	2.42	0.49
5:R:1304:HIS:O	5:R:1304:HIS:CG	2.66	0.49
7:T:344:SER:O	7:T:347:THR:OG1	2.31	0.49
1:Z:753:ALA:HB2	1:Z:815:ILE:CB	2.43	0.49
1:A:621:HIS:ND1	1:A:625:GLU:OE2	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:491:ARG:CB	3:D:520:THR:HB	2.42	0.49
3:D:578:VAL:O	3:D:596:ALA:HA	2.12	0.49
3:D:932:ILE:CG2	3:D:933:ILE:HG13	2.41	0.49
3:D:1018:LEU:HD22	1:N:247:GLY:CA	2.43	0.49
3:D:1494:ASN:O	5:F:1471:LYS:CE	2.60	0.49
5:F:866:GLN:HA	5:F:869:VAL:HG12	1.95	0.49
5:F:1628:GLY:O	5:F:1632:THR:HB	2.13	0.49
8:I:822:LYS:NZ	8:I:822:LYS:CA	2.73	0.49
6:J:370:ASP:HA	6:J:373:PHE:CG	2.48	0.49
7:K:456:THR:C	7:K:458:GLU:N	2.64	0.49
8:L:774:ASN:HA	8:L:777:ASN:HB2	1.95	0.49
1:M:625:GLU:OE1	1:M:629:ARG:NH2	2.33	0.49
1:N:25:LEU:HD23	1:N:25:LEU:C	2.33	0.49
3:P:976:THR:CB	3:P:981:ILE:CB	2.91	0.49
4:Q:86:ASP:OD1	4:Q:86:ASP:N	2.44	0.49
4:Q:185:LEU:HD23	4:Q:188:ILE:HD11	1.94	0.49
4:Q:200:LEU:HD13	4:Q:271:LEU:HD22	1.94	0.49
4:Q:995:LEU:HA	4:Q:998:LEU:HB2	1.95	0.49
5:R:902:LYS:HE2	7:T:414:LYS:HD2	0.67	0.49
5:R:1094:GLY:O	5:R:1098:SER:N	2.42	0.49
5:R:1219:VAL:O	5:R:1221:LEU:N	2.44	0.49
5:R:1373:ASP:O	5:R:1375:GLY:N	2.45	0.49
5:R:1628:GLY:O	5:R:1632:THR:HB	2.13	0.49
6:V:370:ASP:HA	6:V:373:PHE:CG	2.48	0.49
1:A:205:ASN:OD1	1:A:208:LEU:HB2	2.12	0.49
3:D:119:PRO:HB3	3:D:739:THR:CG2	2.42	0.49
3:D:896:MET:O	3:D:900:VAL:HG23	2.13	0.49
4:E:994:ILE:HG13	4:E:995:LEU:HD12	1.95	0.49
5:F:835:LYS:HD3	5:F:835:LYS:N	2.28	0.49
5:F:914:ASP:HA	5:F:917:PHE:HB2	1.93	0.49
5:F:1357:ALA:HA	5:F:1381:LEU:CB	2.42	0.49
7:H:315:LYS:HA	7:H:347:THR:HA	1.95	0.49
6:J:388:CYS:HA	6:J:391:LEU:CG	2.43	0.49
1:M:571:LEU:O	1:M:574:GLU:HG3	2.13	0.49
1:N:758:GLN:HE21	3:P:1377:ASN:HD21	1.59	0.49
3:P:401:ILE:CG2	3:P:462:LEU:HB3	2.30	0.49
3:P:503:GLU:OE1	3:P:503:GLU:N	2.45	0.49
3:P:585:ILE:HG12	3:P:591:LYS:HB2	1.94	0.49
4:Q:1598:LEU:O	4:Q:1602:LEU:HB2	2.13	0.49
5:R:665:GLU:HA	5:R:668:ARG:HG2	1.94	0.49
5:R:668:ARG:O	5:R:672:TRP:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:835:LYS:HD3	5:R:835:LYS:N	2.27	0.49
5:R:913:TYR:O	5:R:917:PHE:N	2.46	0.49
5:R:938:ALA:O	5:R:941:SER:OG	2.22	0.49
5:R:1058:ALA:C	5:R:1060:LEU:H	2.16	0.49
5:R:1269:GLU:O	5:R:1273:LYS:HB3	2.13	0.49
5:R:1641:PHE:HA	5:R:1644:ASP:HB2	1.95	0.49
8:U:750:THR:O	8:U:754:ASN:ND2	2.46	0.49
1:A:642:LEU:HA	1:A:645:GLN:CD	2.33	0.48
3:D:539:SER:HA	3:D:545:GLN:HE22	1.78	0.48
5:F:288:TRP:O	5:F:295:ARG:NH2	2.45	0.48
5:F:1465:GLN:HG3	5:F:1527:ARG:NH2	2.28	0.48
6:G:436:LEU:HD13	7:H:503:ASN:CB	2.43	0.48
1:M:684:ASN:HB3	1:M:687:LEU:HB2	1.93	0.48
1:M:723:ILE:HG23	1:M:735:THR:HG23	1.95	0.48
1:N:305:ILE:HG21	1:N:336:LEU:HA	1.94	0.48
4:Q:476:ASP:N	4:Q:476:ASP:OD1	2.45	0.48
5:R:1370:LEU:C	5:R:1371:ILE:HG12	2.34	0.48
6:V:380:TYR:CD1	6:V:380:TYR:O	2.66	0.48
1:Z:767:ILE:HD12	1:Z:768:VAL:HG23	1.95	0.48
1:A:413:LYS:HD2	1:A:425:ILE:HD11	1.94	0.48
1:A:571:LEU:O	1:A:574:GLU:HG3	2.13	0.48
3:D:1238:ARG:CA	1:Z:830:SER:CB	2.81	0.48
3:D:1468:TYR:N	1:Z:621:HIS:CE1	2.77	0.48
5:F:665:GLU:HA	5:F:668:ARG:HG2	1.94	0.48
5:F:1304:HIS:CG	5:F:1304:HIS:O	2.66	0.48
5:F:1472:GLU:OE1	5:F:1531:THR:OG1	2.25	0.48
6:G:395:GLU:HA	6:G:398:VAL:HB	1.95	0.48
7:H:309:ARG:NH2	7:H:334:GLU:OE2	2.45	0.48
7:K:538:LYS:CB	8:L:822:LYS:CB	2.85	0.48
1:M:341:LEU:HD21	1:M:371:PHE:HZ	1.78	0.48
2:O:1216:TYR:HB2	2:O:1241:LEU:HD13	1.95	0.48
3:P:910:LEU:HD23	3:P:913:LEU:CD1	2.38	0.48
5:R:463:SER:O	5:R:463:SER:OG	2.31	0.48
5:R:669:THR:HA	5:R:672:TRP:HB2	1.94	0.48
5:R:951:ARG:CA	5:R:951:ARG:NE	2.76	0.48
7:T:317:ASN:HA	7:T:346:GLN:HB3	1.94	0.48
6:V:406:PHE:CD1	6:V:406:PHE:C	2.86	0.48
8:X:643:LYS:CG	8:X:647:GLN:HE22	2.23	0.48
2:C:914:GLN:HE21	2:C:953:ILE:HG23	1.78	0.48
3:D:503:GLU:OE1	3:D:508:LYS:HD3	2.14	0.48
3:D:586:LEU:HD11	3:D:592:TYR:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:134:ARG:NH1	4:E:198:MET:SD	2.86	0.48
4:E:1598:LEU:O	4:E:1602:LEU:HB2	2.13	0.48
5:F:1031:VAL:CB	6:G:314:TYR:O	2.61	0.48
5:F:1269:GLU:O	5:F:1273:LYS:HB3	2.13	0.48
6:G:294:LEU:O	6:G:298:THR:OG1	2.21	0.48
6:J:364:ILE:C	7:K:424:ASN:ND2	2.65	0.48
8:L:638:ASP:HA	8:L:641:VAL:CG2	2.42	0.48
1:M:255:GLU:HB3	1:M:480:GLN:HE21	1.79	0.48
1:M:829:TYR:C	1:M:829:TYR:CD1	2.85	0.48
3:P:539:SER:HA	3:P:545:GLN:NE2	2.29	0.48
3:P:919:VAL:CG2	3:P:927:LEU:H	2.26	0.48
3:P:1020:ASN:HB3	1:Z:251:ALA:HB3	1.82	0.48
4:Q:134:ARG:NH1	4:Q:198:MET:SD	2.87	0.48
5:R:710:LEU:HA	5:R:713:PHE:HB3	1.95	0.48
5:R:1031:VAL:CB	6:S:314:TYR:O	2.61	0.48
5:R:1465:GLN:HG3	5:R:1527:ARG:NH2	2.28	0.48
6:S:315:LEU:HD23	8:U:679:LEU:HD23	1.95	0.48
7:T:315:LYS:HA	7:T:347:THR:HA	1.94	0.48
1:Z:275:LYS:NZ	1:Z:441:MET:SD	2.81	0.48
1:A:140:ILE:HG22	4:E:1393:LYS:CE	2.43	0.48
3:D:449:ASN:ND2	3:D:461:ARG:HB2	2.27	0.48
3:D:539:SER:HA	3:D:545:GLN:NE2	2.29	0.48
3:D:927:LEU:HD13	3:D:973:ARG:NH2	2.29	0.48
4:E:570:GLN:HE21	4:E:622:LEU:HB3	1.78	0.48
4:E:573:LEU:HD22	4:E:637:VAL:HG13	1.96	0.48
4:E:878:PHE:HZ	4:E:917:PRO:HB3	1.77	0.48
5:F:923:VAL:HG23	5:F:925:HIS:H	1.77	0.48
6:G:428:ASN:HD21	6:G:432:LEU:HD23	1.78	0.48
6:J:380:TYR:O	6:J:380:TYR:CD1	2.66	0.48
6:J:401:ILE:HG23	7:K:466:LEU:HD22	1.77	0.48
6:J:445:GLU:O	6:J:449:LEU:HB2	2.13	0.48
1:N:88:LYS:HZ3	8:U:805:ARG:CB	2.24	0.48
1:N:494:TYR:O	1:N:497:THR:OG1	2.26	0.48
4:Q:573:LEU:HD22	4:Q:637:VAL:HG13	1.96	0.48
1:A:315:LYS:HD2	1:A:319:SER:OG	2.13	0.48
4:E:795:ILE:O	4:E:798:SER:OG	2.29	0.48
5:F:161:GLN:HA	5:F:164:LYS:HG3	1.94	0.48
5:F:929:TYR:C	5:F:931:GLY:H	2.17	0.48
5:F:951:ARG:NE	5:F:951:ARG:CA	2.76	0.48
5:F:1289:ILE:HD12	5:F:1289:ILE:HA	1.65	0.48
5:F:1529:ALA:HB2	5:F:1611:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:429:LEU:HA	6:J:434:THR:N	2.24	0.48
3:P:315:THR:HG22	3:P:317:SER:H	1.79	0.48
3:P:896:MET:O	3:P:900:VAL:HG23	2.13	0.48
4:Q:605:LYS:O	4:Q:605:LYS:NZ	2.37	0.48
5:R:334:GLN:HG2	5:R:860:ASN:HD21	1.73	0.48
5:R:929:TYR:C	5:R:931:GLY:H	2.17	0.48
5:R:1027:GLN:HG3	5:R:1027:GLN:O	2.13	0.48
5:R:1543:LEU:O	5:R:1547:ILE:HG22	2.13	0.48
5:R:1667:VAL:HA	5:R:1670:ILE:HG22	1.95	0.48
6:V:384:LEU:CD2	7:W:455:LYS:HG2	2.43	0.48
7:W:444:LEU:O	7:W:447:SER:CA	2.61	0.48
1:Z:305:ILE:HG21	1:Z:336:LEU:HA	1.94	0.48
1:Z:761:SER:C	1:Z:763:LEU:H	2.15	0.48
3:D:421:VAL:HG21	3:D:490:LYS:CB	2.41	0.48
3:D:911:ASN:HA	3:D:914:TYR:CE2	2.48	0.48
3:D:977:LYS:HE2	1:N:316:ALA:H	1.67	0.48
4:E:258:ILE:HA	4:E:261:ILE:HD11	1.96	0.48
8:I:739:GLN:C	8:I:741:ARG:N	2.61	0.48
8:I:750:THR:O	8:I:754:ASN:ND2	2.46	0.48
8:I:795:LYS:CE	8:I:799:SER:HB3	2.43	0.48
1:M:642:LEU:HA	1:M:645:GLN:CD	2.33	0.48
1:N:18:ALA:HA	1:N:21:LYS:HB2	1.95	0.48
4:Q:675:TYR:HA	4:Q:678:LYS:HG2	1.96	0.48
4:Q:822:ASN:O	4:Q:826:SER:HB3	2.12	0.48
4:Q:1499:LEU:HA	4:Q:1502:ILE:HG12	1.95	0.48
5:R:303:LYS:HA	5:R:306:VAL:HG22	1.96	0.48
6:S:428:ASN:HD21	6:S:432:LEU:HD23	1.78	0.48
7:W:430:GLY:C	7:W:432:ALA:N	2.65	0.48
1:Z:341:LEU:HD22	1:Z:415:ILE:HD11	1.95	0.48
1:A:341:LEU:HD21	1:A:371:PHE:HZ	1.78	0.48
3:D:745:ILE:HG13	3:D:746:THR:H	1.77	0.48
3:D:971:ILE:HD11	3:D:984:THR:CG2	2.43	0.48
5:F:965:LEU:O	5:F:965:LEU:HG	2.13	0.48
5:F:1300:LEU:HD23	5:F:1301:SER:HA	1.96	0.48
7:H:292:VAL:HG22	8:I:644:TRP:HZ3	1.79	0.48
7:H:511:GLU:CB	8:I:800:HIS:HE1	2.24	0.48
8:I:795:LYS:HZ3	8:I:795:LYS:HA	1.78	0.48
1:M:27:GLU:CB	1:Z:26:LEU:CD2	2.86	0.48
1:M:301:ASN:HA	1:M:304:LYS:HE3	1.96	0.48
3:P:971:ILE:HD11	3:P:984:THR:CG2	2.43	0.48
4:Q:1166:VAL:HG23	4:Q:1167:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:965:LEU:O	5:R:965:LEU:HG	2.13	0.48
8:U:738:ASP:O	8:U:740:LYS:HG3	2.14	0.48
8:U:792:GLN:O	8:U:794:ILE:N	2.46	0.48
6:V:293:HIS:CB	7:W:359:ASN:HD21	2.27	0.48
6:V:311:ASP:HA	6:V:314:TYR:CG	2.48	0.48
7:W:433:GLU:HB3	7:W:437:TRP:CZ3	2.49	0.48
7:W:446:ARG:HD3	7:W:446:ARG:C	2.34	0.48
8:X:774:ASN:HA	8:X:777:ASN:HB2	1.95	0.48
1:A:19:ASN:HA	1:A:22:LEU:CD1	2.44	0.48
1:A:128:LEU:CD1	4:E:1260:TYR:OH	2.44	0.48
1:A:255:GLU:HB3	1:A:480:GLN:HE21	1.79	0.48
3:D:453:GLY:O	3:D:456:ASN:N	2.45	0.48
3:D:919:VAL:CG2	3:D:927:LEU:H	2.26	0.48
4:E:476:ASP:OD1	4:E:476:ASP:N	2.45	0.48
5:F:938:ALA:O	5:F:941:SER:OG	2.22	0.48
5:F:1147:PHE:CD1	5:F:1147:PHE:C	2.85	0.48
6:G:295:LYS:NZ	6:J:363:LYS:HZ3	2.11	0.48
7:H:426:GLY:CA	8:I:735:ASN:C	2.82	0.48
8:I:814:LEU:HD21	1:Z:59:LYS:HA	1.96	0.48
6:J:371:LYS:HZ2	6:J:371:LYS:C	2.08	0.48
1:M:269:ASN:HB3	1:M:272:GLU:HB2	1.96	0.48
3:P:491:ARG:HA	3:P:520:THR:HB	1.96	0.48
4:Q:1460:LEU:O	4:Q:1463:SER:OG	2.31	0.48
5:R:1357:ALA:HA	5:R:1381:LEU:CB	2.42	0.48
8:U:795:LYS:CE	8:U:799:SER:HB3	2.43	0.48
8:U:816:LYS:N	8:U:816:LYS:HE2	2.28	0.48
7:W:314:ASN:H	7:W:349:PRO:HA	1.79	0.48
7:W:339:MET:SD	7:W:342:LYS:NZ	2.68	0.48
1:Z:810:ALA:O	1:Z:836:ASP:CB	2.62	0.48
1:A:723:ILE:HG23	1:A:735:THR:HG23	1.96	0.48
3:D:315:THR:HG22	3:D:317:SER:H	1.79	0.48
3:D:481:LEU:CD2	3:D:488:GLN:HB3	2.43	0.48
3:D:491:ARG:HA	3:D:520:THR:HB	1.96	0.48
3:D:910:LEU:HA	3:D:913:LEU:HD12	1.96	0.48
4:E:258:ILE:HA	4:E:261:ILE:HG13	1.95	0.48
4:E:1063:ASP:N	4:E:1063:ASP:OD1	2.45	0.48
5:F:1027:GLN:HG3	5:F:1027:GLN:O	2.13	0.48
8:I:778:LYS:HA	8:I:778:LYS:NZ	2.29	0.48
8:I:778:LYS:HA	8:I:778:LYS:HZ2	1.79	0.48
6:J:283:TYR:O	6:J:286:LYS:HG2	2.14	0.48
6:J:311:ASP:HA	6:J:314:TYR:CG	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:384:LEU:CD2	7:K:455:LYS:HG2	2.43	0.48
7:K:314:ASN:H	7:K:349:PRO:HA	1.79	0.48
7:K:433:GLU:HB3	7:K:437:TRP:CZ3	2.49	0.48
1:N:84:ASP:OD1	6:S:449:LEU:HD23	2.13	0.48
1:N:133:THR:O	1:N:134:LYS:C	2.52	0.48
2:O:888:LEU:HA	2:O:892:PHE:CD2	2.49	0.48
5:R:690:GLU:HG2	8:U:722:LEU:HD21	1.91	0.48
6:S:395:GLU:HA	6:S:398:VAL:HB	1.96	0.48
7:W:389:LYS:HA	7:W:393:ASP:HB3	0.61	0.48
8:X:777:ASN:HD22	8:X:795:LYS:HA	1.79	0.48
1:Z:254:LEU:O	1:Z:257:TRP:N	2.47	0.48
1:A:133:THR:O	1:A:134:LYS:C	2.52	0.48
3:D:426:VAL:CG2	3:D:437:VAL:HG23	2.44	0.48
3:D:503:GLU:HB2	3:D:507:LEU:N	2.29	0.48
3:D:585:ILE:HG12	3:D:591:LYS:HB2	1.94	0.48
3:D:976:THR:CB	3:D:981:ILE:CB	2.91	0.48
4:E:1260:TYR:O	4:E:1260:TYR:CD1	2.67	0.48
4:E:1384:ASP:HA	4:E:1388:LEU:HB2	1.96	0.48
5:F:161:GLN:HB2	5:F:183:ARG:HH12	1.79	0.48
5:F:291:GLU:HG3	5:F:295:ARG:HG2	1.95	0.48
5:F:837:TYR:CG	5:F:918:PHE:CZ	3.02	0.48
5:F:927:GLY:HA3	5:F:978:ILE:HD11	1.95	0.48
5:F:1167:LYS:HE3	5:F:1167:LYS:CA	2.27	0.48
7:H:492:ASP:O	7:H:493:SER:CB	2.62	0.48
6:J:376:LYS:NZ	8:L:756:ASN:ND2	2.57	0.48
1:M:133:THR:O	1:M:134:LYS:C	2.52	0.48
1:N:697:PHE:HA	1:N:703:SER:HB3	1.96	0.48
1:N:767:ILE:HD12	1:N:768:VAL:HG23	1.95	0.48
3:P:426:VAL:CG2	3:P:437:VAL:HG23	2.44	0.48
3:P:517:LEU:HB2	3:P:540:GLN:OE1	2.14	0.48
3:P:606:GLN:N	3:P:642:LEU:O	2.36	0.48
4:Q:1163:LEU:HB3	4:Q:1173:TRP:HH2	1.78	0.48
5:R:110:ARG:NH2	5:R:190:TYR:OH	2.47	0.48
5:R:1088:ARG:NH1	5:R:1088:ARG:CG	2.73	0.48
5:R:1506:ILE:HG22	5:R:1507:ASN:H	1.79	0.48
7:T:298:SER:OG	7:T:305:LYS:O	2.25	0.48
6:V:391:LEU:HA	6:V:394:ILE:CD1	2.43	0.48
3:D:442:GLY:O	3:D:468:PRO:HG3	2.14	0.47
3:D:538:SER:OG	3:D:545:GLN:HB2	2.13	0.47
4:E:675:TYR:HA	4:E:678:LYS:HG2	1.96	0.47
4:E:1166:VAL:HG23	4:E:1167:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:320:GLU:CD	5:F:351:HIS:CE1	2.87	0.47
5:F:1493:LYS:HD2	5:F:1493:LYS:HA	1.66	0.47
6:J:376:LYS:HD2	6:J:376:LYS:C	2.34	0.47
1:M:630:ARG:O	1:M:634:ASP:N	2.41	0.47
1:N:116:LYS:HE2	1:N:116:LYS:CA	2.44	0.47
1:N:123:MET:SD	1:N:123:MET:C	2.93	0.47
1:N:242:LEU:HD21	1:N:253:LEU:HB3	1.96	0.47
2:O:1258:GLN:CG	2:O:1299:LYS:HE2	2.41	0.47
4:Q:604:PRO:HG3	4:Q:666:PRO:HG2	1.96	0.47
4:Q:994:ILE:HG13	4:Q:995:LEU:HD12	1.95	0.47
5:R:46:ALA:O	5:R:50:GLN:CB	2.62	0.47
5:R:1392:ILE:CB	5:R:1405:PHE:HE2	2.27	0.47
8:U:778:LYS:HA	8:U:778:LYS:NZ	2.29	0.47
7:W:312:VAL:CG1	7:W:361:ARG:HH21	2.27	0.47
1:Z:123:MET:SD	1:Z:123:MET:C	2.93	0.47
1:Z:271:VAL:HG22	1:Z:459:LEU:HD22	1.96	0.47
1:A:301:ASN:HA	1:A:304:LYS:HE3	1.96	0.47
3:D:445:ARG:HH11	3:D:466:LYS:HB3	1.79	0.47
3:D:628:PHE:O	3:D:779:ARG:HD2	2.14	0.47
4:E:1031:LYS:HB2	4:E:1034:ILE:HG12	1.96	0.47
5:F:710:LEU:HA	5:F:713:PHE:HB3	1.95	0.47
5:F:907:HIS:CB	7:H:410:LYS:HD3	2.44	0.47
5:F:971:SER:OG	5:F:972:VAL:N	2.46	0.47
5:F:1370:LEU:C	5:F:1371:ILE:HG12	2.33	0.47
5:F:1550:LEU:CD1	5:F:1552:PHE:CZ	2.97	0.47
6:J:388:CYS:SG	6:J:391:LEU:CB	3.02	0.47
7:K:538:LYS:CB	8:L:821:ILE:HG22	2.42	0.47
1:N:768:VAL:HA	1:N:771:ILE:CD1	2.41	0.47
2:O:914:GLN:HE21	2:O:953:ILE:HG23	1.78	0.47
3:P:917:SER:OG	3:P:975:ILE:HA	2.15	0.47
3:P:927:LEU:HD13	3:P:973:ARG:NH2	2.29	0.47
5:R:671:PHE:HA	5:R:674:PHE:HB2	1.96	0.47
5:R:792:ASP:OD2	5:R:1244:ASN:ND2	2.43	0.47
5:R:1012:ASN:O	8:U:787:GLU:CG	2.52	0.47
6:S:436:LEU:HD13	7:T:503:ASN:CB	2.43	0.47
6:V:283:TYR:O	6:V:286:LYS:HG2	2.14	0.47
6:V:376:LYS:HD2	6:V:376:LYS:C	2.34	0.47
6:V:389:ARG:NH1	6:V:389:ARG:CG	2.72	0.47
1:Z:641:ILE:HD13	1:Z:656:LEU:HD12	1.96	0.47
1:Z:771:ILE:HG22	1:Z:772:PRO:HD2	1.94	0.47
1:A:687:LEU:HA	1:A:690:ARG:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1018:LEU:HD22	1:N:247:GLY:HA2	1.95	0.47
4:E:18:VAL:HA	4:E:40:ILE:HD11	1.97	0.47
5:F:922:LEU:HD12	5:F:922:LEU:N	2.23	0.47
8:L:774:ASN:HB3	8:L:795:LYS:HE2	1.96	0.47
8:L:777:ASN:HD22	8:L:795:LYS:HA	1.79	0.47
8:L:818:ILE:HA	8:L:821:ILE:HG22	1.97	0.47
1:N:242:LEU:HD11	1:N:253:LEU:HD12	1.96	0.47
3:P:481:LEU:CD2	3:P:488:GLN:HB3	2.43	0.47
3:P:503:GLU:HB2	3:P:507:LEU:N	2.29	0.47
4:Q:570:GLN:HE21	4:Q:622:LEU:HB3	1.78	0.47
5:R:291:GLU:HG3	5:R:295:ARG:HG2	1.95	0.47
5:R:866:GLN:HA	5:R:869:VAL:HG12	1.95	0.47
5:R:925:HIS:HA	5:R:928:LEU:CD1	2.44	0.47
7:T:492:ASP:O	7:T:493:SER:CB	2.62	0.47
8:U:822:LYS:HG3	8:U:822:LYS:O	2.15	0.47
6:V:300:ASP:HA	6:V:303:GLU:OE1	2.14	0.47
3:D:149:GLU:OE2	3:D:653:ARG:NH1	2.37	0.47
3:D:1376:LYS:CB	1:Z:762:ASN:CB	2.93	0.47
4:E:604:PRO:HG3	4:E:666:PRO:HG2	1.96	0.47
4:E:803:LEU:HG	4:E:807:LEU:HD12	1.96	0.47
4:E:1200:GLU:HA	4:E:1203:THR:HG22	1.97	0.47
5:F:275:VAL:HA	5:F:278:ILE:HB	1.96	0.47
1:M:505:HIS:HE1	1:M:541:TYR:OH	1.96	0.47
1:N:341:LEU:HD22	1:N:415:ILE:HD11	1.96	0.47
1:N:774:LEU:HD23	1:N:774:LEU:O	2.15	0.47
3:P:515:VAL:HA	3:P:644:SER:HB3	1.97	0.47
3:P:893:ILE:O	3:P:897:ILE:HG13	2.15	0.47
3:P:1140:LYS:NZ	1:Z:204:GLU:CB	2.71	0.47
4:Q:18:VAL:HA	4:Q:40:ILE:HD11	1.96	0.47
7:T:472:ASN:O	7:T:476:GLN:CB	2.63	0.47
6:V:445:GLU:O	6:V:449:LEU:HB2	2.13	0.47
7:W:402:GLN:NE2	7:W:402:GLN:CA	2.76	0.47
7:W:427:LEU:H	7:W:428:PRO:HD3	1.79	0.47
8:X:769:ILE:HA	8:X:772:VAL:HG12	1.95	0.47
8:X:818:ILE:HA	8:X:821:ILE:HG22	1.97	0.47
2:C:1216:TYR:HB2	2:C:1241:LEU:HD13	1.95	0.47
3:D:182:CYS:SG	3:D:195:ILE:HD11	2.55	0.47
3:D:517:LEU:HB2	3:D:540:GLN:OE1	2.14	0.47
3:D:789:VAL:HG11	3:D:952:LEU:CD1	2.44	0.47
4:E:1345:SER:O	4:E:1349:TYR:HB2	2.14	0.47
5:F:900:LEU:HD22	5:F:904:TYR:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:925:HIS:HA	5:F:928:LEU:CD1	2.44	0.47
5:F:1058:ALA:C	5:F:1060:LEU:H	2.16	0.47
5:F:1249:ILE:HA	5:F:1252:VAL:HG12	1.95	0.47
5:F:1392:ILE:CB	5:F:1405:PHE:HE2	2.28	0.47
7:H:472:ASN:O	7:H:476:GLN:CB	2.63	0.47
8:I:822:LYS:HG3	8:I:822:LYS:O	2.15	0.47
8:L:769:ILE:HA	8:L:772:VAL:HG12	1.95	0.47
1:N:271:VAL:HG22	1:N:459:LEU:HD22	1.96	0.47
3:P:442:GLY:O	3:P:468:PRO:HG3	2.15	0.47
3:P:445:ARG:HH11	3:P:466:LYS:HB3	1.79	0.47
4:Q:105:GLU:O	4:Q:109:ARG:N	2.47	0.47
5:R:275:VAL:HA	5:R:278:ILE:HB	1.95	0.47
5:R:320:GLU:CD	5:R:351:HIS:CE1	2.87	0.47
7:T:292:VAL:HG22	8:U:644:TRP:HZ3	1.79	0.47
6:V:391:LEU:HA	6:V:394:ILE:HD13	1.96	0.47
1:Z:199:ARG:NH2	1:Z:496:TYR:O	2.45	0.47
1:Z:786:ILE:CD1	1:Z:838:SER:HA	2.44	0.47
1:A:31:ASN:HA	7:K:522:TYR:HD2	1.80	0.47
1:A:688:LEU:O	1:A:692:MET:HG2	2.14	0.47
3:D:568:GLN:NE2	3:D:573:GLN:HG2	2.30	0.47
3:D:903:ILE:HG12	3:D:953:PHE:CG	2.50	0.47
3:D:917:SER:OG	3:D:975:ILE:HA	2.15	0.47
3:D:1133:ILE:CB	1:N:209:ARG:CB	2.92	0.47
4:E:725:LEU:HG	4:E:1169:ALA:HB3	1.97	0.47
4:E:954:ILE:HD11	4:E:1015:LYS:HE3	1.97	0.47
4:E:1163:LEU:HB3	4:E:1173:TRP:HH2	1.78	0.47
4:E:1499:LEU:HA	4:E:1502:ILE:HG12	1.95	0.47
5:F:110:ARG:NH2	5:F:190:TYR:OH	2.47	0.47
5:F:1486:LEU:HA	5:F:1489:ILE:HB	1.96	0.47
6:G:315:LEU:HD23	8:I:679:LEU:HD23	1.95	0.47
7:K:446:ARG:HH22	7:K:455:LYS:HZ3	1.49	0.47
7:K:446:ARG:C	7:K:446:ARG:HD3	2.34	0.47
1:M:688:LEU:O	1:M:692:MET:HG2	2.14	0.47
1:N:810:ALA:O	1:N:836:ASP:CB	2.62	0.47
3:P:538:SER:OG	3:P:545:GLN:HB2	2.13	0.47
4:Q:683:ASP:OD1	4:Q:689:GLY:N	2.36	0.47
5:R:25:PHE:HB3	5:R:26:LYS:HZ2	1.79	0.47
5:R:159:LYS:CE	5:R:363:ASP:CB	2.93	0.47
5:R:900:LEU:C	5:R:900:LEU:CD1	2.82	0.47
5:R:1283:LYS:NZ	5:R:1286:PHE:HB3	2.30	0.47
6:S:404:ASP:CB	6:S:425:GLU:O	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:432:LEU:CA	8:X:782:ILE:HA	2.45	0.47
7:W:483:VAL:O	7:W:493:SER:N	2.48	0.47
7:W:508:LYS:NZ	1:Z:12:SER:O	2.47	0.47
1:A:193:LEU:HB3	1:A:546:ARG:NH1	2.30	0.47
1:A:829:TYR:CD1	1:A:829:TYR:C	2.85	0.47
3:D:447:TYR:O	3:D:462:LEU:HD12	2.15	0.47
3:D:503:GLU:OE1	3:D:503:GLU:N	2.45	0.47
4:E:51:LEU:HA	4:E:109:ARG:HD3	1.97	0.47
4:E:227:ILE:HD11	4:E:258:ILE:HG21	1.95	0.47
4:E:1608:HIS:HB3	4:E:1611:TYR:HB3	1.97	0.47
5:F:21:ASP:HB2	5:F:24:LEU:HB2	1.97	0.47
5:F:46:ALA:O	5:F:50:GLN:CB	2.62	0.47
5:F:219:HIS:NE2	5:F:222:GLU:OE2	2.48	0.47
5:F:655:LYS:HG3	5:F:708:GLY:HA2	1.95	0.47
5:F:665:GLU:HG2	5:F:668:ARG:HG3	1.97	0.47
5:F:1058:ALA:C	5:F:1060:LEU:N	2.67	0.47
5:F:1210:LYS:HB2	5:F:1289:ILE:HD11	1.96	0.47
5:F:1423:SER:HA	5:F:1426:VAL:HG12	1.97	0.47
6:G:353:LEU:HD11	6:G:365:SER:HB2	1.97	0.47
6:G:380:TYR:HA	6:G:383:LYS:HE3	1.95	0.47
8:I:738:ASP:O	8:I:740:LYS:HG3	2.14	0.47
8:I:792:GLN:O	8:I:794:ILE:N	2.46	0.47
6:J:277:ILE:HD12	6:J:280:LEU:HD23	1.97	0.47
6:J:324:GLN:HA	6:J:327:LYS:CE	2.35	0.47
7:K:358:LEU:O	7:K:362:ASN:ND2	2.48	0.47
7:K:535:LYS:O	7:K:539:ASN:N	2.43	0.47
8:L:661:LYS:HE2	8:L:665:TRP:CH2	2.50	0.47
1:M:193:LEU:HB3	1:M:546:ARG:NH1	2.30	0.47
1:M:469:TYR:HB3	1:M:473:ARG:HB2	1.97	0.47
1:M:810:ALA:HB1	1:M:836:ASP:OD1	2.15	0.47
1:N:239:ILE:O	1:N:243:SER:OG	2.30	0.47
1:N:641:ILE:HD13	1:N:656:LEU:HD12	1.96	0.47
1:N:762:ASN:CB	3:P:1376:LYS:CB	2.93	0.47
3:P:182:CYS:SG	3:P:195:ILE:HD11	2.55	0.47
3:P:503:GLU:OE1	3:P:508:LYS:HD3	2.14	0.47
3:P:611:LEU:CG	3:P:640:ALA:HB2	2.45	0.47
3:P:911:ASN:HA	3:P:914:TYR:CE2	2.49	0.47
4:Q:51:LEU:HA	4:Q:109:ARG:HD3	1.97	0.47
4:Q:1031:LYS:HB2	4:Q:1034:ILE:HG12	1.97	0.47
4:Q:1260:TYR:CD1	4:Q:1260:TYR:O	2.67	0.47
5:R:10:THR:O	5:R:14:SER:CB	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:56:ILE:HD13	5:R:86:ILE:HD13	1.97	0.47
5:R:245:ARG:NH2	5:R:284:TYR:O	2.45	0.47
5:R:425:ASP:N	5:R:425:ASP:OD1	2.48	0.47
5:R:439:LEU:HA	5:R:442:ILE:HG22	1.97	0.47
5:R:711:GLN:NE2	5:R:714:HIS:HB2	2.29	0.47
5:R:900:LEU:HD22	5:R:904:TYR:CE2	2.49	0.47
5:R:907:HIS:CB	7:T:410:LYS:HD3	2.44	0.47
5:R:920:ILE:HB	5:R:924:ALA:HA	1.97	0.47
5:R:1014:SER:N	8:U:788:ASP:H	2.12	0.47
5:R:1058:ALA:C	5:R:1060:LEU:N	2.67	0.47
5:R:1086:LEU:HD23	5:R:1086:LEU:HA	1.77	0.47
5:R:1622:VAL:HA	5:R:1625:THR:HG22	1.97	0.47
6:S:380:TYR:HA	6:S:383:LYS:HE3	1.95	0.47
8:U:822:LYS:NZ	8:U:822:LYS:CA	2.73	0.47
6:V:326:LEU:HD22	8:X:689:SER:OG	2.14	0.47
6:V:357:LEU:CD2	7:W:423:LYS:HE3	2.44	0.47
8:X:664:SER:HA	8:X:667:GLN:HE21	1.80	0.47
8:X:774:ASN:HB3	8:X:795:LYS:HE2	1.96	0.47
1:Z:574:GLU:HA	1:Z:577:ARG:HB2	1.96	0.47
1:A:31:ASN:HA	7:K:522:TYR:CD2	2.50	0.47
1:A:615:ASP:HB2	1:A:618:GLU:HG3	1.97	0.47
1:A:817:ALA:CB	1:A:832:LEU:HD13	2.45	0.47
2:C:888:LEU:HA	2:C:892:PHE:CD2	2.49	0.47
3:D:125:SER:OG	3:D:734:LEU:HD13	2.15	0.47
3:D:1140:LYS:NZ	1:N:204:GLU:CB	2.67	0.47
4:E:105:GLU:O	4:E:109:ARG:N	2.47	0.47
4:E:141:LEU:HD11	4:E:195:LEU:HD13	1.97	0.47
5:F:228:PHE:CE2	5:F:359:GLN:HA	2.50	0.47
5:F:609:LEU:HA	5:F:612:LEU:HB2	1.96	0.47
5:F:850:GLN:HA	5:F:853:ILE:HD12	1.97	0.47
6:J:300:ASP:HA	6:J:303:GLU:OE1	2.14	0.47
6:J:326:LEU:HD22	8:L:689:SER:OG	2.14	0.47
6:J:405:LEU:HD11	7:K:469:ARG:CG	2.37	0.47
7:K:427:LEU:H	7:K:428:PRO:HD3	1.79	0.47
1:N:574:GLU:HA	1:N:577:ARG:HB2	1.96	0.47
1:N:786:ILE:CD1	1:N:838:SER:HA	2.44	0.47
3:P:175:ILE:CD1	3:P:642:LEU:HB2	2.36	0.47
3:P:903:ILE:HG12	3:P:953:PHE:CG	2.50	0.47
4:Q:279:ILE:HG23	4:Q:281:GLN:HG2	1.97	0.47
4:Q:393:THR:H	4:Q:396:THR:HG22	1.80	0.47
4:Q:954:ILE:HD11	4:Q:1015:LYS:HE3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1345:SER:O	4:Q:1349:TYR:HB2	2.14	0.47
5:R:320:GLU:CD	5:R:351:HIS:HD1	2.18	0.47
5:R:837:TYR:CG	5:R:918:PHE:CZ	3.02	0.47
5:R:850:GLN:HA	5:R:853:ILE:HD12	1.97	0.47
5:R:1210:LYS:HB2	5:R:1289:ILE:HD11	1.96	0.47
5:R:1495:THR:HA	5:R:1498:LEU:HB2	1.97	0.47
5:R:1550:LEU:CD1	5:R:1552:PHE:CZ	2.97	0.47
6:S:296:ALA:N	6:V:363:LYS:HZ2	2.12	0.47
1:Z:211:LYS:HZ2	1:Z:246:ASN:ND2	2.06	0.47
1:A:630:ARG:O	1:A:634:ASP:N	2.41	0.47
2:C:1389:GLY:HA2	4:E:1331:LEU:CD1	2.45	0.47
3:D:893:ILE:O	3:D:897:ILE:HG13	2.15	0.47
3:D:1019:ARG:HA	1:N:245:ALA:CB	2.45	0.47
4:E:1380:ASP:C	4:E:1382:THR:N	2.68	0.47
5:F:711:GLN:NE2	5:F:714:HIS:HB2	2.29	0.47
5:F:1622:VAL:HA	5:F:1625:THR:HG22	1.97	0.47
7:H:312:VAL:HG12	7:H:361:ARG:HH21	1.80	0.47
6:J:371:LYS:C	6:J:371:LYS:CE	2.84	0.47
7:K:312:VAL:CG1	7:K:361:ARG:HH21	2.27	0.47
3:P:789:VAL:HG11	3:P:952:LEU:CD1	2.44	0.47
3:P:910:LEU:HA	3:P:913:LEU:HD12	1.96	0.47
4:Q:1086:ILE:HD11	4:Q:1096:ILE:HB	1.97	0.47
5:R:228:PHE:CE2	5:R:359:GLN:HA	2.50	0.47
5:R:655:LYS:HG3	5:R:708:GLY:HA2	1.95	0.47
5:R:1300:LEU:HD23	5:R:1301:SER:HA	1.96	0.47
6:V:434:THR:OG1	6:V:435:GLY:N	2.47	0.47
8:X:661:LYS:HE2	8:X:665:TRP:CH2	2.50	0.47
1:Z:539:ALA:HA	1:Z:542:THR:HG22	1.97	0.47
1:Z:551:ARG:HH12	1:Z:607:ARG:HH12	1.63	0.47
1:A:420:LEU:HD13	1:A:457:TYR:HB2	1.97	0.47
3:D:412:ILE:HG13	3:D:413:LEU:CD1	2.43	0.47
3:D:1238:ARG:CG	1:Z:830:SER:HB2	2.40	0.47
3:D:1465:ILE:HG23	3:D:1487:TYR:CZ	2.49	0.47
4:E:284:ILE:HD11	4:E:328:ILE:HD12	1.96	0.47
4:E:1558:GLN:NE2	4:E:1590:ASP:OD1	2.48	0.47
5:F:322:ILE:HA	5:F:325:PHE:HB3	1.97	0.47
5:F:1506:ILE:HG22	5:F:1507:ASN:H	1.79	0.47
5:F:1634:LYS:O	5:F:1638:ILE:N	2.34	0.47
7:K:310:ALA:HB3	7:K:352:ILE:CB	2.40	0.47
7:K:313:TYR:HA	7:K:349:PRO:CB	2.40	0.47
1:M:140:ILE:HG22	4:Q:1393:LYS:CE	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:539:ALA:HA	1:N:542:THR:HG22	1.96	0.47
1:N:710:ASN:OD1	1:N:710:ASN:N	2.48	0.47
4:Q:803:LEU:HG	4:Q:807:LEU:HD12	1.96	0.47
4:Q:1380:ASP:C	4:Q:1382:THR:N	2.68	0.47
4:Q:1384:ASP:HA	4:Q:1388:LEU:HB2	1.96	0.47
5:R:1104:ASN:O	5:R:1108:ARG:NH1	2.48	0.47
5:R:1517:ALA:O	5:R:1521:THR:OG1	2.24	0.47
8:U:655:PHE:O	8:U:659:THR:OG1	2.27	0.47
6:V:371:LYS:CE	6:V:371:LYS:C	2.84	0.47
1:Z:138:ASN:C	1:Z:138:ASN:HD22	2.19	0.47
1:Z:767:ILE:H	1:Z:767:ILE:HG13	1.47	0.47
1:Z:768:VAL:HA	1:Z:771:ILE:CD1	2.41	0.47
1:A:563:ASN:O	1:A:564:GLU:HG3	2.15	0.46
4:E:100:GLU:O	4:E:104:SER:OG	2.26	0.46
4:E:207:ASP:O	4:E:211:GLN:HB2	2.15	0.46
4:E:458:LYS:HG3	4:E:562:TRP:HE1	1.81	0.46
5:F:425:ASP:OD1	5:F:425:ASP:N	2.48	0.46
5:F:750:TRP:CG	5:F:750:TRP:O	2.68	0.46
5:F:1104:ASN:O	5:F:1108:ARG:NH1	2.49	0.46
5:F:1136:LYS:CB	5:F:1207:CYS:HA	2.45	0.46
5:F:1283:LYS:NZ	5:F:1286:PHE:HB3	2.30	0.46
6:G:404:ASP:CB	6:G:425:GLU:O	2.63	0.46
7:K:413:LEU:HG	8:L:749:GLN:HE21	1.80	0.46
7:K:466:LEU:O	7:K:470:ALA:N	2.40	0.46
8:L:664:SER:HA	8:L:667:GLN:HE21	1.80	0.46
1:M:354:VAL:HA	1:M:368:LEU:HD11	1.97	0.46
1:M:687:LEU:HA	1:M:690:ARG:HG2	1.96	0.46
1:N:59:LYS:HA	8:U:814:LEU:HD21	1.96	0.46
3:P:863:ILE:CD1	3:P:887:GLN:HG3	2.46	0.46
4:Q:284:ILE:HD11	4:Q:328:ILE:HD12	1.96	0.46
4:Q:1503:VAL:HA	4:Q:1506:LEU:HG	1.96	0.46
5:R:154:GLN:HG3	5:R:190:TYR:HE2	1.80	0.46
5:R:159:LYS:HE3	5:R:363:ASP:CB	2.46	0.46
5:R:322:ILE:HA	5:R:325:PHE:HB3	1.97	0.46
5:R:343:ASP:OD2	5:R:702:LYS:NZ	2.38	0.46
7:T:412:ILE:HG22	7:T:415:LEU:HD23	1.94	0.46
7:W:358:LEU:O	7:W:362:ASN:ND2	2.48	0.46
1:Z:116:LYS:HE2	1:Z:116:LYS:CA	2.44	0.46
2:C:285:GLU:HB2	2:C:304:LEU:HD11	1.96	0.46
3:D:361:ILE:HD12	3:D:368:ILE:HG12	1.97	0.46
3:D:611:LEU:CG	3:D:640:ALA:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:797:ARG:NH2	3:D:799:THR:OG1	2.49	0.46
5:F:439:LEU:HA	5:F:442:ILE:HG22	1.97	0.46
5:F:538:GLU:O	5:F:542:ASN:ND2	2.49	0.46
5:F:623:VAL:HG11	5:F:626:ASP:HB2	1.97	0.46
5:F:1364:TYR:O	5:F:1364:TYR:CD1	2.68	0.46
5:F:1406:TYR:OH	5:F:1452:SER:O	2.33	0.46
8:I:795:LYS:CA	8:I:795:LYS:HZ3	2.28	0.46
6:J:432:LEU:CA	8:L:782:ILE:HA	2.45	0.46
1:N:820:ILE:O	1:N:822:TYR:N	2.48	0.46
3:P:453:GLY:O	3:P:456:ASN:N	2.45	0.46
4:Q:53:GLU:HB2	4:Q:140:LYS:HD2	1.98	0.46
4:Q:182:PHE:HZ	5:R:1189:MET:CB	2.23	0.46
4:Q:1180:GLN:NE2	4:Q:1181:THR:O	2.40	0.46
5:R:1136:LYS:CB	5:R:1207:CYS:HA	2.45	0.46
6:S:310:ARG:NE	6:S:314:TYR:OH	2.49	0.46
1:A:810:ALA:HB1	1:A:836:ASP:OD1	2.15	0.46
4:E:1029:ASN:HD22	7:K:475:SER:CB	2.26	0.46
4:E:1160:ILE:HG13	4:E:1161:PRO:HD3	1.98	0.46
5:F:154:GLN:HG3	5:F:190:TYR:HE2	1.81	0.46
5:F:951:ARG:NE	5:F:951:ARG:HA	2.29	0.46
8:I:788:ASP:N	8:I:788:ASP:OD1	2.49	0.46
8:I:821:ILE:HD13	8:I:821:ILE:O	2.16	0.46
6:J:353:LEU:HD12	7:K:423:LYS:HG2	1.97	0.46
6:J:357:LEU:CD2	7:K:423:LYS:HE3	2.45	0.46
7:K:483:VAL:O	7:K:493:SER:N	2.48	0.46
1:M:138:ASN:C	1:M:138:ASN:HD22	2.19	0.46
1:M:420:LEU:HD13	1:M:457:TYR:HB2	1.97	0.46
1:M:545:PHE:CD2	1:M:549:ASP:HB2	2.51	0.46
1:M:563:ASN:O	1:M:564:GLU:HG3	2.15	0.46
1:M:654:ILE:HG13	1:M:706:ILE:HG21	1.97	0.46
1:N:27:GLU:OE2	1:N:30:ASP:HB2	2.11	0.46
1:N:138:ASN:HD22	1:N:138:ASN:C	2.19	0.46
3:P:628:PHE:O	3:P:779:ARG:HD2	2.14	0.46
3:P:641:VAL:HB	3:P:648:GLU:CG	2.45	0.46
3:P:1000:ASP:OD1	3:P:1000:ASP:N	2.49	0.46
4:Q:207:ASP:O	4:Q:211:GLN:HB2	2.15	0.46
4:Q:858:LEU:HD23	4:Q:858:LEU:HA	1.73	0.46
5:R:564:ASP:OD1	5:R:564:ASP:N	2.49	0.46
5:R:1110:MET:CE	5:R:1157:TRP:CZ2	2.99	0.46
5:R:1281:LYS:HA	5:R:1281:LYS:HD2	1.54	0.46
5:R:1406:TYR:OH	5:R:1452:SER:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:86:PHE:N	1:Z:86:PHE:CD1	2.79	0.46
3:D:260:HIS:NE2	3:D:261:LEU:HD23	2.30	0.46
3:D:713:ILE:HD12	3:D:769:ARG:CG	2.46	0.46
5:F:899:PHE:O	5:F:904:TYR:OH	2.24	0.46
5:F:1014:SER:N	8:I:788:ASP:H	2.12	0.46
7:K:447:SER:CB	8:L:751:LEU:CD1	2.94	0.46
1:M:137:ASP:HB2	4:Q:1386:LEU:CA	2.42	0.46
1:N:88:LYS:O	1:N:92:THR:HG23	2.15	0.46
1:N:192:ILE:HG22	1:N:539:ALA:HB3	1.97	0.46
2:O:914:GLN:HE21	2:O:953:ILE:CG2	2.29	0.46
3:P:260:HIS:NE2	3:P:261:LEU:HD23	2.30	0.46
3:P:393:ILE:HD11	3:P:460:LEU:HB2	1.98	0.46
4:Q:624:THR:HG23	4:Q:632:ALA:HB2	1.97	0.46
5:R:21:ASP:HB2	5:R:24:LEU:HB2	1.97	0.46
5:R:161:GLN:HB2	5:R:183:ARG:HH12	1.79	0.46
5:R:219:HIS:NE2	5:R:222:GLU:OE2	2.48	0.46
5:R:538:GLU:O	5:R:542:ASN:ND2	2.49	0.46
5:R:609:LEU:HA	5:R:612:LEU:HB2	1.96	0.46
5:R:1486:LEU:HA	5:R:1489:ILE:HB	1.96	0.46
6:S:353:LEU:HD11	6:S:365:SER:HB2	1.97	0.46
7:T:312:VAL:HG12	7:T:361:ARG:HH21	1.80	0.46
8:U:778:LYS:HB2	8:U:794:ILE:CB	2.46	0.46
6:V:277:ILE:HD12	6:V:280:LEU:HD23	1.97	0.46
8:X:684:VAL:HA	8:X:687:GLU:OE1	2.16	0.46
1:Z:133:THR:O	1:Z:134:LYS:C	2.52	0.46
1:Z:306:LYS:HE2	1:Z:331:VAL:HG22	1.97	0.46
1:Z:599:ARG:NE	1:Z:605:GLU:OE1	2.39	0.46
1:Z:697:PHE:HA	1:Z:703:SER:HB3	1.96	0.46
1:A:269:ASN:HB3	1:A:272:GLU:HB2	1.96	0.46
2:C:229:ASP:CG	2:C:252:LYS:HE2	2.35	0.46
3:D:234:ILE:HD12	3:D:243:PHE:CE2	2.51	0.46
3:D:495:PHE:O	3:D:499:LEU:HG	2.16	0.46
3:D:515:VAL:HA	3:D:644:SER:HB3	1.97	0.46
5:F:10:THR:O	5:F:14:SER:CB	2.63	0.46
5:F:303:LYS:HA	5:F:306:VAL:HG22	1.96	0.46
5:F:319:ILE:HD11	5:F:477:ASP:HB2	1.97	0.46
5:F:320:GLU:CD	5:F:351:HIS:HD1	2.19	0.46
5:F:444:THR:HB	5:F:445:ASP:H	1.53	0.46
5:F:1110:MET:HE3	5:F:1157:TRP:HZ2	1.81	0.46
5:F:1480:MET:HG2	5:F:1537:ALA:HB1	1.98	0.46
6:G:310:ARG:NE	6:G:314:TYR:OH	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:288:ILE:O	7:K:292:VAL:HG23	2.15	0.46
1:M:16:LYS:CD	6:V:468:ALA:HB1	2.45	0.46
1:N:390:LEU:HD21	1:N:416:GLY:HA2	1.97	0.46
1:N:551:ARG:HH12	1:N:607:ARG:HH12	1.63	0.46
2:O:229:ASP:CG	2:O:252:LYS:HE2	2.36	0.46
3:P:125:SER:OG	3:P:734:LEU:HD13	2.15	0.46
3:P:735:SER:O	3:P:739:THR:OG1	2.32	0.46
3:P:1465:ILE:HG23	3:P:1487:TYR:CZ	2.49	0.46
4:Q:596:LYS:O	4:Q:600:ASN:ND2	2.49	0.46
4:Q:725:LEU:HG	4:Q:1169:ALA:HB3	1.97	0.46
4:Q:1608:HIS:HB3	4:Q:1611:TYR:HB3	1.97	0.46
5:R:665:GLU:HG2	5:R:668:ARG:HG3	1.97	0.46
5:R:750:TRP:CG	5:R:750:TRP:O	2.68	0.46
5:R:975:SER:HA	5:R:978:ILE:HG22	1.97	0.46
7:W:288:ILE:O	7:W:292:VAL:HG23	2.15	0.46
7:W:399:LEU:HD12	7:W:399:LEU:C	2.35	0.46
1:Z:192:ILE:HG22	1:Z:539:ALA:HB3	1.97	0.46
1:Z:210:GLU:O	1:Z:214:ASN:ND2	2.49	0.46
4:E:596:LYS:O	4:E:600:ASN:ND2	2.49	0.46
5:F:657:ILE:O	5:F:712:LEU:CD1	2.56	0.46
8:L:643:LYS:CG	8:L:647:GLN:HE22	2.23	0.46
1:N:210:GLU:O	1:N:214:ASN:ND2	2.49	0.46
3:P:437:VAL:HA	3:P:446:LEU:O	2.16	0.46
3:P:1020:ASN:CG	1:Z:252:GLN:H	2.19	0.46
5:R:526:PHE:HA	5:R:529:MET:HB3	1.97	0.46
5:R:917:PHE:O	5:R:917:PHE:CD1	2.69	0.46
5:R:1608:ILE:HA	5:R:1612:LEU:HD13	1.98	0.46
7:W:379:ILE:C	7:W:382:LYS:H	2.19	0.46
1:Z:820:ILE:O	1:Z:822:TYR:N	2.48	0.46
3:D:430:GLU:OE2	3:D:528:PRO:HA	2.16	0.46
3:D:863:ILE:CD1	3:D:887:GLN:HG3	2.46	0.46
3:D:910:LEU:HD23	3:D:913:LEU:CD1	2.38	0.46
4:E:279:ILE:HG23	4:E:281:GLN:HG2	1.97	0.46
4:E:393:THR:H	4:E:396:THR:HG22	1.80	0.46
4:E:559:PHE:HZ	4:E:567:ARG:HH22	1.64	0.46
4:E:851:SER:O	4:E:851:SER:OG	2.33	0.46
4:E:1503:VAL:HA	4:E:1506:LEU:HG	1.96	0.46
5:F:159:LYS:CE	5:F:363:ASP:CB	2.93	0.46
5:F:975:SER:HA	5:F:978:ILE:HG22	1.97	0.46
5:F:1034:LEU:HD22	5:F:1092:THR:CB	2.28	0.46
5:F:1110:MET:CE	5:F:1157:TRP:CZ2	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:694:ASP:OD2	8:I:698:GLN:NE2	2.37	0.46
6:J:431:GLN:C	7:K:499:GLY:H	2.19	0.46
7:K:399:LEU:HD12	7:K:399:LEU:C	2.35	0.46
1:M:514:LYS:HA	1:M:514:LYS:HD3	1.84	0.46
3:P:447:TYR:O	3:P:462:LEU:HD12	2.15	0.46
5:R:452:LYS:HA	5:R:452:LYS:HD2	1.70	0.46
5:R:1423:SER:HA	5:R:1426:VAL:HG12	1.97	0.46
7:W:316:VAL:H	7:W:347:THR:HA	1.81	0.46
1:Z:16:LYS:NZ	1:Z:16:LYS:HA	2.31	0.46
1:Z:239:ILE:O	1:Z:243:SER:OG	2.30	0.46
3:D:430:GLU:HA	3:D:624:PHE:CD2	2.50	0.46
3:D:1021:TYR:H	1:N:249:ARG:CB	2.29	0.46
5:F:750:TRP:O	5:F:750:TRP:CD1	2.69	0.46
5:F:1067:ASN:ND2	5:F:1069:ASP:HB2	2.31	0.46
5:F:1463:LEU:HD12	5:F:1463:LEU:HA	1.73	0.46
8:I:778:LYS:HB2	8:I:794:ILE:CB	2.46	0.46
8:I:805:ARG:CB	1:Z:88:LYS:HZ3	2.26	0.46
6:J:293:HIS:CB	7:K:359:ASN:HD21	2.27	0.46
6:J:406:PHE:CD1	6:J:406:PHE:C	2.87	0.46
7:K:301:PRO:HB3	7:K:353:TYR:O	2.16	0.46
1:M:24:GLU:HB3	1:Z:26:LEU:C	2.36	0.46
1:M:137:ASP:OD2	4:Q:1386:LEU:HG	2.16	0.46
1:M:615:ASP:HB2	1:M:618:GLU:HG3	1.97	0.46
1:M:739:MET:O	1:M:742:LEU:HB2	2.16	0.46
1:N:555:GLU:OE1	1:N:607:ARG:NH2	2.49	0.46
1:N:775:LEU:HD22	1:N:775:LEU:HA	1.64	0.46
2:O:285:GLU:HB2	2:O:304:LEU:HD11	1.96	0.46
3:P:462:LEU:HD21	3:P:465:ILE:CG2	2.46	0.46
3:P:568:GLN:NE2	3:P:573:GLN:HG2	2.30	0.46
4:Q:559:PHE:HZ	4:Q:567:ARG:HH22	1.64	0.46
4:Q:1160:ILE:HG13	4:Q:1161:PRO:HD3	1.98	0.46
4:Q:1276:LYS:HA	4:Q:1276:LYS:HD2	1.70	0.46
4:Q:1539:ASN:ND2	4:Q:1611:TYR:OH	2.48	0.46
5:R:859:LYS:HD2	5:R:860:ASN:H	1.81	0.46
5:R:1052:LEU:O	5:R:1055:VAL:N	2.42	0.46
5:R:1118:ARG:HD3	5:R:1118:ARG:HA	1.47	0.46
5:R:1480:MET:HG2	5:R:1537:ALA:HB1	1.98	0.46
6:S:289:GLN:OE1	6:V:352:VAL:HG13	2.16	0.46
6:V:431:GLN:C	7:W:499:GLY:H	2.19	0.46
6:V:433:LYS:CA	7:W:499:GLY:HA2	2.45	0.46
7:W:301:PRO:HB3	7:W:353:TYR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:314:ASN:O	7:W:348:ILE:N	2.48	0.46
7:W:315:LYS:CG	7:W:347:THR:HG22	2.46	0.46
7:W:389:LYS:CA	7:W:393:ASP:CB	2.39	0.46
1:Z:807:LYS:CB	1:Z:837:VAL:C	2.84	0.46
1:A:739:MET:O	1:A:742:LEU:HB2	2.16	0.46
3:D:830:SER:CB	3:D:934:SER:HB3	2.38	0.46
4:E:1086:ILE:HD11	4:E:1096:ILE:HB	1.97	0.46
5:F:56:ILE:HD13	5:F:86:ILE:HD13	1.97	0.46
5:F:671:PHE:HA	5:F:674:PHE:HB2	1.96	0.46
6:J:434:THR:OG1	6:J:435:GLY:N	2.47	0.46
8:L:684:VAL:HA	8:L:687:GLU:OE1	2.16	0.46
1:M:761:SER:CB	2:O:1355:SER:OG	2.63	0.46
3:P:118:THR:HB	3:P:623:GLY:CA	2.35	0.46
3:P:234:ILE:HD12	3:P:243:PHE:CE2	2.51	0.46
3:P:430:GLU:HA	3:P:624:PHE:CD2	2.51	0.46
3:P:608:ILE:CD1	3:P:641:VAL:HG22	2.46	0.46
3:P:665:ASN:CG	3:P:666:PRO:HD3	2.37	0.46
3:P:713:ILE:HD12	3:P:769:ARG:CG	2.46	0.46
4:Q:258:ILE:H	4:Q:258:ILE:HG12	1.47	0.46
5:R:23:ASP:OD1	5:R:23:ASP:N	2.47	0.46
5:R:319:ILE:HD11	5:R:477:ASP:HB2	1.97	0.46
5:R:1305:SER:C	5:R:1307:VAL:N	2.69	0.46
7:T:420:ALA:CB	8:U:745:TYR:CD1	2.96	0.46
8:U:778:LYS:CG	8:U:794:ILE:CB	2.94	0.46
1:A:140:ILE:CG2	4:E:1393:LYS:CE	2.94	0.46
1:A:545:PHE:CD2	1:A:549:ASP:HB2	2.50	0.46
2:C:229:ASP:CG	2:C:252:LYS:CE	2.85	0.46
3:D:608:ILE:CD1	3:D:641:VAL:HG22	2.46	0.46
3:D:1494:ASN:O	5:F:1471:LYS:NZ	2.49	0.46
5:F:526:PHE:HA	5:F:529:MET:HB3	1.97	0.46
5:F:1090:PRO:HD3	5:F:1093:SER:OG	2.16	0.46
7:H:386:LEU:HG	8:I:690:GLN:HE21	1.81	0.46
7:K:314:ASN:O	7:K:348:ILE:N	2.48	0.46
7:K:522:TYR:HA	7:K:525:GLU:HG2	1.98	0.46
1:M:21:LYS:CE	1:Z:27:GLU:HG2	2.46	0.46
3:P:654:THR:O	3:P:658:ILE:HG13	2.16	0.46
4:Q:504:ASP:OD1	4:Q:524:LYS:NZ	2.49	0.46
5:R:750:TRP:O	5:R:750:TRP:CD1	2.69	0.46
5:R:1139:ILE:H	5:R:1139:ILE:HD12	1.80	0.46
7:T:318:GLU:CB	7:T:346:GLN:HA	2.46	0.46
8:U:794:ILE:HA	8:U:797:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:300:ASP:O	6:V:304:LEU:HD13	2.16	0.46
6:V:406:PHE:HD1	6:V:406:PHE:O	1.99	0.46
7:W:429:LEU:HB2	8:X:741:ARG:NH2	2.31	0.46
1:Z:831:THR:HA	1:Z:834:ASN:HB2	1.97	0.46
1:A:761:SER:CB	2:C:1355:SER:OG	2.64	0.45
3:D:462:LEU:HD21	3:D:465:ILE:CG2	2.46	0.45
4:E:504:ASP:OD1	4:E:524:LYS:NZ	2.49	0.45
4:E:1484:LYS:HZ2	4:E:1486:GLU:HB2	1.81	0.45
5:F:159:LYS:HZ1	5:F:363:ASP:CB	2.28	0.45
5:F:564:ASP:N	5:F:564:ASP:OD1	2.49	0.45
5:F:672:TRP:CD1	5:F:675:LEU:HD22	2.52	0.45
5:F:920:ILE:HB	5:F:924:ALA:HA	1.97	0.45
8:I:778:LYS:CG	8:I:794:ILE:CB	2.94	0.45
7:K:315:LYS:CG	7:K:347:THR:HG22	2.46	0.45
7:K:402:GLN:CA	7:K:402:GLN:NE2	2.76	0.45
7:K:444:LEU:O	7:K:447:SER:CA	2.61	0.45
1:M:238:PHE:HZ	1:M:505:HIS:CD2	2.34	0.45
1:N:306:LYS:HE2	1:N:331:VAL:HG22	1.97	0.45
3:P:873:SER:OG	3:P:877:VAL:HB	2.17	0.45
4:Q:174:VAL:HA	4:Q:177:VAL:HG12	1.98	0.45
4:Q:982:ILE:N	4:Q:982:ILE:HD12	2.31	0.45
4:Q:1558:GLN:NE2	4:Q:1590:ASP:OD1	2.48	0.45
5:R:1364:TYR:O	5:R:1364:TYR:CD1	2.68	0.45
8:U:792:GLN:H	8:U:792:GLN:HG3	1.58	0.45
1:A:138:ASN:HD22	1:A:138:ASN:C	2.19	0.45
1:A:238:PHE:HZ	1:A:505:HIS:CD2	2.34	0.45
1:A:354:VAL:HA	1:A:368:LEU:HD11	1.98	0.45
1:A:679:ASP:HB3	1:A:684:ASN:HB2	1.99	0.45
3:D:519:THR:HG21	3:D:605:VAL:N	2.31	0.45
3:D:789:VAL:HA	3:D:949:PHE:CE1	2.51	0.45
5:F:917:PHE:CD1	5:F:917:PHE:O	2.69	0.45
5:F:1363:ILE:C	5:F:1363:ILE:CD1	2.85	0.45
7:H:318:GLU:CB	7:H:346:GLN:HA	2.46	0.45
7:K:429:LEU:HB2	8:L:741:ARG:NH2	2.31	0.45
1:M:675:VAL:HA	1:M:684:ASN:HD21	1.81	0.45
1:N:116:LYS:C	1:N:116:LYS:CE	2.85	0.45
4:Q:141:LEU:HD11	4:Q:195:LEU:HD13	1.97	0.45
4:Q:314:ASP:OD1	4:Q:314:ASP:N	2.48	0.45
4:Q:1200:GLU:HA	4:Q:1203:THR:HG22	1.97	0.45
5:R:1038:LEU:C	5:R:1040:THR:N	2.45	0.45
7:W:455:LYS:HD3	7:W:455:LYS:H	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:466:LEU:O	7:W:469:ARG:N	2.49	0.45
8:X:682:ASP:HA	8:X:685:MET:HE2	1.99	0.45
1:Z:88:LYS:O	1:Z:92:THR:HG23	2.15	0.45
2:C:914:GLN:HE21	2:C:953:ILE:CG2	2.29	0.45
3:D:654:THR:O	3:D:658:ILE:HG13	2.16	0.45
3:D:789:VAL:HG21	3:D:952:LEU:CD1	2.47	0.45
4:E:23:ASN:HD22	4:E:838:LYS:HD2	1.81	0.45
4:E:174:VAL:HA	4:E:177:VAL:HG12	1.97	0.45
5:F:48:ARG:NH1	5:F:85:GLU:OE2	2.47	0.45
5:F:98:THR:HG22	5:F:99:ALA:H	1.81	0.45
5:F:859:LYS:HD2	5:F:860:ASN:H	1.81	0.45
5:F:1139:ILE:HD12	5:F:1139:ILE:H	1.81	0.45
5:F:1285:HIS:ND1	5:F:1285:HIS:C	2.70	0.45
5:F:1608:ILE:HA	5:F:1612:LEU:HD13	1.98	0.45
8:I:793:LEU:HA	8:I:796:ILE:HG13	1.98	0.45
6:J:389:ARG:NH2	6:J:390:ILE:HD12	2.31	0.45
7:K:466:LEU:O	7:K:469:ARG:N	2.49	0.45
1:M:817:ALA:CB	1:M:832:LEU:HD13	2.45	0.45
1:N:555:GLU:HA	1:N:607:ARG:HH21	1.81	0.45
3:P:168:GLN:N	3:P:187:ASP:OD2	2.38	0.45
3:P:789:VAL:HA	3:P:949:PHE:CE1	2.51	0.45
3:P:797:ARG:NH2	3:P:799:THR:OG1	2.49	0.45
4:Q:458:LYS:HG3	4:Q:562:TRP:HE1	1.80	0.45
5:R:588:ASN:HB3	5:R:768:VAL:HG12	1.98	0.45
5:R:1036:PRO:CB	5:R:1042:ILE:H	2.30	0.45
5:R:1463:LEU:HD12	5:R:1463:LEU:HA	1.73	0.45
7:T:451:ALA:O	7:T:455:LYS:N	2.45	0.45
6:V:353:LEU:HD12	7:W:423:LYS:HG2	1.98	0.45
6:V:380:TYR:CD1	6:V:383:LYS:HD3	2.51	0.45
7:W:517:GLN:CA	7:W:520:ILE:HB	2.44	0.45
1:Z:555:GLU:OE1	1:Z:607:ARG:NH2	2.49	0.45
1:Z:774:LEU:HD23	1:Z:774:LEU:O	2.14	0.45
1:A:48:GLU:CA	7:K:514:THR:HG21	2.46	0.45
1:A:210:GLU:OE2	1:A:214:ASN:ND2	2.48	0.45
3:D:393:ILE:HD11	3:D:460:LEU:HB2	1.98	0.45
3:D:434:LEU:HD22	3:D:447:TYR:HB3	1.99	0.45
4:E:650:ASP:OD2	4:E:653:SER:OG	2.28	0.45
4:E:912:TRP:CD1	4:E:917:PRO:HD3	2.52	0.45
5:F:1110:MET:HE2	5:F:1157:TRP:CZ2	2.51	0.45
7:H:314:ASN:HB2	7:H:361:ARG:HH22	1.82	0.45
6:J:275:GLN:NE2	6:J:278:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:389:LYS:HA	7:K:393:ASP:HB3	0.61	0.45
1:M:195:SER:OG	1:M:536:ASN:OD1	2.34	0.45
1:M:589:LEU:O	1:M:604:ILE:HG22	2.17	0.45
3:P:361:ILE:HD12	3:P:368:ILE:HG12	1.97	0.45
3:P:1020:ASN:CG	1:Z:252:GLN:CG	2.73	0.45
4:Q:253:LEU:N	5:R:1191:SER:O	2.50	0.45
4:Q:368:ILE:HD13	4:Q:368:ILE:HA	1.88	0.45
4:Q:755:ASN:CB	5:R:1376:THR:OG1	2.65	0.45
5:R:1067:ASN:ND2	5:R:1069:ASP:HB2	2.31	0.45
5:R:1090:PRO:HD3	5:R:1093:SER:OG	2.16	0.45
5:R:1285:HIS:C	5:R:1285:HIS:ND1	2.70	0.45
8:U:694:ASP:OD2	8:U:698:GLN:NE2	2.37	0.45
8:U:821:ILE:HD13	8:U:821:ILE:O	2.16	0.45
6:V:456:ARG:NH1	1:Z:25:LEU:HD12	2.31	0.45
7:W:358:LEU:HD22	8:X:662:ILE:CD1	2.41	0.45
7:W:404:ARG:CG	8:X:704:GLN:NE2	2.79	0.45
1:Z:390:LEU:HD21	1:Z:416:GLY:HA2	1.96	0.45
1:Z:555:GLU:HA	1:Z:607:ARG:HH21	1.81	0.45
1:A:469:TYR:HB3	1:A:473:ARG:HB2	1.97	0.45
3:D:111:LEU:HD22	3:D:775:LEU:HD21	1.97	0.45
3:D:437:VAL:HA	3:D:446:LEU:O	2.16	0.45
3:D:665:ASN:CG	3:D:666:PRO:HD3	2.37	0.45
4:E:227:ILE:HD11	4:E:258:ILE:CG2	2.47	0.45
4:E:1020:ILE:HA	4:E:1023:VAL:HG12	1.98	0.45
4:E:1180:GLN:NE2	4:E:1181:THR:O	2.40	0.45
5:F:902:LYS:HE2	7:H:414:LYS:HD2	0.67	0.45
5:F:1157:TRP:O	5:F:1158:THR:C	2.55	0.45
7:H:295:CYS:HA	7:H:298:SER:HB2	1.99	0.45
1:M:137:ASP:HB2	4:Q:1386:LEU:HG	1.98	0.45
3:P:111:LEU:HD22	3:P:775:LEU:HD21	1.97	0.45
3:P:434:LEU:HD22	3:P:447:TYR:HB3	1.99	0.45
3:P:476:VAL:HG13	3:P:488:GLN:HG3	1.99	0.45
3:P:519:THR:HG21	3:P:605:VAL:N	2.31	0.45
3:P:937:SER:HB3	3:P:941:GLN:CB	2.43	0.45
5:R:672:TRP:CD1	5:R:675:LEU:HD22	2.51	0.45
5:R:1617:SER:O	5:R:1617:SER:OG	2.29	0.45
6:V:364:ILE:HG23	7:W:424:ASN:HB3	1.99	0.45
7:W:413:LEU:HG	8:X:749:GLN:HE21	1.80	0.45
7:W:466:LEU:O	7:W:470:ALA:N	2.40	0.45
1:Z:807:LYS:CB	1:Z:836:ASP:O	2.63	0.45
1:A:128:LEU:CB	4:E:1260:TYR:HE2	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:234:ILE:O	3:D:240:LEU:HD12	2.16	0.45
3:D:1140:LYS:HD3	1:N:204:GLU:HG2	1.98	0.45
4:E:1052:LYS:HZ2	4:E:1068:LEU:HD23	1.80	0.45
4:E:1472:SER:HB2	4:E:1475:SER:H	1.81	0.45
5:F:1606:GLN:O	5:F:1610:ALA:CB	2.60	0.45
5:F:1635:ARG:N	5:R:1634:LYS:NZ	2.65	0.45
6:G:289:GLN:OE1	6:J:352:VAL:HG13	2.16	0.45
7:H:470:ALA:O	7:H:474:SER:HB2	2.17	0.45
8:I:795:LYS:HZ3	8:I:795:LYS:CB	2.30	0.45
6:J:380:TYR:CD1	6:J:383:LYS:HD3	2.51	0.45
2:O:229:ASP:CG	2:O:252:LYS:CE	2.85	0.45
2:O:1389:GLY:HA2	4:Q:1331:LEU:CD1	2.45	0.45
3:P:399:SER:O	3:P:407:ALA:HB2	2.17	0.45
4:Q:300:SER:O	4:Q:304:ASN:HB2	2.16	0.45
4:Q:1379:GLU:OE1	4:Q:1383:GLN:NE2	2.50	0.45
5:R:968:ILE:CG2	7:T:392:LEU:HD11	2.36	0.45
5:R:1359:PHE:O	5:R:1359:PHE:CG	2.69	0.45
8:U:793:LEU:HA	8:U:796:ILE:HG13	1.98	0.45
6:V:275:GLN:NE2	6:V:278:GLU:OE1	2.49	0.45
6:V:389:ARG:NH1	6:V:389:ARG:CA	2.79	0.45
6:V:389:ARG:CZ	6:V:389:ARG:C	2.85	0.45
6:V:392:SER:HG	6:V:393:ASP:H	1.65	0.45
7:W:315:LYS:HB2	8:X:670:VAL:HB	1.99	0.45
7:W:447:SER:CB	8:X:751:LEU:CD1	2.94	0.45
1:Z:16:LYS:NZ	1:Z:16:LYS:CA	2.80	0.45
3:D:937:SER:HB3	3:D:941:GLN:CB	2.43	0.45
5:F:359:GLN:CB	5:F:421:ILE:HA	2.47	0.45
5:F:1036:PRO:CB	5:F:1042:ILE:H	2.30	0.45
7:K:315:LYS:HB2	8:L:670:VAL:HB	1.99	0.45
7:K:316:VAL:H	7:K:347:THR:HA	1.81	0.45
8:L:682:ASP:HA	8:L:685:MET:HE2	1.98	0.45
1:N:125:ILE:HD11	5:R:1363:ILE:HG22	1.97	0.45
3:P:170:LYS:NZ	3:P:212:GLN:O	2.37	0.45
3:P:908:SER:O	3:P:911:ASN:HB3	2.17	0.45
4:Q:1421:ILE:HA	4:Q:1424:LEU:HD23	1.99	0.45
5:R:320:GLU:OE2	5:R:351:HIS:ND1	2.50	0.45
5:R:690:GLU:CG	8:U:722:LEU:CG	2.95	0.45
5:R:943:ARG:HB3	5:R:947:LYS:NZ	2.32	0.45
5:R:1435:LYS:HZ1	5:R:1481:LYS:HE3	1.82	0.45
5:R:1635:ARG:HD2	5:R:1635:ARG:HA	1.55	0.45
6:V:319:GLU:CA	6:V:322:THR:HG22	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:430:GLY:C	7:W:432:ALA:H	2.20	0.45
7:W:509:ILE:CG2	1:Z:12:SER:HG	2.25	0.45
8:X:802:ASP:O	8:X:806:SER:CB	2.65	0.45
1:Z:658:ASN:O	1:Z:662:SER:HB2	2.17	0.45
1:A:123:MET:CB	6:J:413:ASN:CB	2.95	0.45
1:A:675:VAL:HA	1:A:684:ASN:HD21	1.81	0.45
1:A:739:MET:SD	1:A:778:THR:OG1	2.63	0.45
3:D:476:VAL:HG13	3:D:488:GLN:HG3	1.99	0.45
3:D:763:ASP:O	3:D:765:ILE:HG12	2.17	0.45
3:D:908:SER:O	3:D:911:ASN:HB3	2.17	0.45
4:E:772:THR:HA	4:E:775:PHE:HB2	1.99	0.45
5:F:253:LYS:NZ	5:F:257:SER:OG	2.44	0.45
5:F:334:GLN:HG2	5:F:860:ASN:HD21	1.73	0.45
5:F:1080:LEU:HG	5:F:1156:TYR:CD2	2.45	0.45
7:H:527:LEU:C	7:H:527:LEU:CD2	2.85	0.45
6:J:433:LYS:CA	7:K:499:GLY:HA2	2.45	0.45
7:K:404:ARG:CG	8:L:704:GLN:NE2	2.79	0.45
7:K:426:GLY:CA	8:L:738:ASP:HB3	2.45	0.45
1:M:210:GLU:OE2	1:M:214:ASN:ND2	2.49	0.45
1:M:679:ASP:HB3	1:M:684:ASN:HB2	1.99	0.45
1:M:749:ASP:HB2	2:O:1274:LYS:HZ3	1.80	0.45
3:P:100:PRO:HG2	3:P:898:LYS:NZ	2.32	0.45
3:P:495:PHE:O	3:P:499:LEU:HG	2.16	0.45
3:P:617:ALA:HB1	3:P:782:ARG:HH22	1.82	0.45
4:Q:772:THR:HA	4:Q:775:PHE:HB2	1.99	0.45
5:R:148:PHE:HA	5:R:151:ILE:HG12	1.99	0.45
5:R:1084:LEU:CB	5:R:1156:TYR:CE1	3.00	0.45
5:R:1110:MET:CE	5:R:1157:TRP:HZ2	2.29	0.45
7:T:386:LEU:HG	8:U:690:GLN:HE21	1.81	0.45
7:T:455:LYS:O	7:T:459:LEU:HB2	2.17	0.45
6:V:277:ILE:HG12	8:X:641:VAL:HG22	1.99	0.45
6:V:372:PHE:O	6:V:372:PHE:CD1	2.70	0.45
6:V:402:ASP:C	6:V:404:ASP:N	2.69	0.45
1:A:195:SER:OG	1:A:536:ASN:OD1	2.34	0.45
1:A:654:ILE:HG13	1:A:706:ILE:HG21	1.98	0.45
3:D:716:VAL:HB	3:D:885:ALA:HB1	1.99	0.45
4:E:53:GLU:HB2	4:E:140:LYS:HD2	1.98	0.45
4:E:300:SER:O	4:E:304:ASN:HB2	2.16	0.45
4:E:755:ASN:CB	5:F:1376:THR:OG1	2.65	0.45
4:E:982:ILE:HD12	4:E:982:ILE:N	2.31	0.45
4:E:1379:GLU:OE1	4:E:1383:GLN:NE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:320:GLU:OE2	5:F:351:HIS:ND1	2.50	0.45
5:F:1285:HIS:O	5:F:1285:HIS:CG	2.70	0.45
5:F:1363:ILE:HG22	1:Z:125:ILE:HD12	1.91	0.45
5:F:1495:THR:HA	5:F:1498:LEU:HB2	1.97	0.45
7:H:451:ALA:O	7:H:455:LYS:N	2.45	0.45
6:J:405:LEU:HD13	7:K:470:ALA:N	2.30	0.45
1:N:831:THR:HA	1:N:834:ASN:HB2	1.98	0.45
3:P:149:GLU:OE2	3:P:653:ARG:NH1	2.37	0.45
3:P:585:ILE:O	3:P:589:HIS:HB2	2.17	0.45
4:Q:1472:SER:HB2	4:Q:1475:SER:H	1.81	0.45
5:R:98:THR:HG22	5:R:99:ALA:H	1.81	0.45
5:R:159:LYS:HA	5:R:159:LYS:HD3	1.82	0.45
5:R:359:GLN:CB	5:R:421:ILE:HA	2.47	0.45
5:R:547:PHE:HE2	5:R:619:VAL:HG11	1.82	0.45
5:R:623:VAL:HG11	5:R:626:ASP:HB2	1.97	0.45
5:R:1068:ILE:CD1	5:R:1150:PHE:CE2	3.00	0.45
5:R:1166:HIS:C	5:R:1166:HIS:ND1	2.70	0.45
5:R:1193:ARG:HA	5:R:1193:ARG:HD3	1.85	0.45
5:R:1673:LEU:O	5:R:1676:LEU:N	2.49	0.45
6:S:289:GLN:CD	6:V:352:VAL:HG22	2.32	0.45
7:W:515:ASN:HD22	1:Z:20:LYS:HZ1	1.64	0.45
1:Z:661:LEU:HA	1:Z:664:THR:HG22	1.99	0.45
3:D:100:PRO:HG2	3:D:898:LYS:NZ	2.32	0.45
3:D:641:VAL:HB	3:D:648:GLU:CG	2.45	0.45
3:D:873:SER:OG	3:D:877:VAL:HB	2.17	0.45
3:D:1000:ASP:OD1	3:D:1000:ASP:N	2.49	0.45
4:E:258:ILE:HA	4:E:261:ILE:CD1	2.47	0.45
4:E:624:THR:HG23	4:E:632:ALA:HB2	1.97	0.45
4:E:696:GLY:HA2	5:F:1383:GLN:CB	2.47	0.45
5:F:159:LYS:HE3	5:F:363:ASP:CB	2.45	0.45
5:F:365:LYS:HA	5:F:369:GLN:CB	2.47	0.45
5:F:1472:GLU:OE2	5:F:1473:ASN:ND2	2.50	0.45
7:H:412:ILE:CA	7:H:415:LEU:HB2	2.42	0.45
8:I:794:ILE:HA	8:I:797:LEU:CD1	2.46	0.45
6:J:284:ILE:O	6:J:288:VAL:HG23	2.17	0.45
6:J:384:LEU:C	6:J:384:LEU:CD2	2.85	0.45
6:J:405:LEU:HD23	6:J:405:LEU:C	2.37	0.45
6:J:406:PHE:O	6:J:406:PHE:HD1	1.99	0.45
1:M:833:ILE:HD13	1:M:833:ILE:HA	1.77	0.45
1:N:88:LYS:HE2	8:U:805:ARG:CB	2.47	0.45
1:N:196:ASN:HD21	1:N:530:ARG:NE	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:658:ASN:O	1:N:662:SER:HB2	2.17	0.45
3:P:234:ILE:O	3:P:240:LEU:HD12	2.16	0.45
5:R:1227:THR:HA	7:T:472:ASN:CB	2.47	0.45
6:S:427:GLU:HB3	8:U:779:THR:HG21	1.99	0.45
8:U:778:LYS:C	8:U:778:LYS:CD	2.85	0.45
6:V:334:SER:C	6:V:336:PHE:H	2.15	0.45
6:V:377:ILE:HG22	6:V:378:HIS:CD2	2.47	0.45
6:V:389:ARG:NH1	6:V:389:ARG:C	2.71	0.45
6:V:389:ARG:NH1	6:V:392:SER:OG	2.49	0.45
7:W:355:PHE:CD1	7:W:358:LEU:HD12	2.45	0.45
1:Z:54:PHE:HA	1:Z:57:ARG:CZ	2.47	0.45
1:Z:239:ILE:HD12	1:Z:258:LYS:HD3	1.99	0.45
1:A:137:ASP:HB2	4:E:1386:LEU:HG	1.98	0.44
1:A:775:LEU:HD22	1:A:832:LEU:HD11	1.99	0.44
3:D:929:PHE:HA	3:D:932:ILE:HG22	1.99	0.44
4:E:1395:ILE:HD12	4:E:1398:VAL:HB	2.00	0.44
5:F:792:ASP:OD2	5:F:1244:ASN:ND2	2.43	0.44
5:F:1359:PHE:O	5:F:1359:PHE:CG	2.69	0.44
8:I:655:PHE:O	8:I:659:THR:OG1	2.27	0.44
8:I:685:MET:O	8:I:688:HIS:ND1	2.45	0.44
6:J:286:LYS:O	6:J:290:ILE:HG12	2.18	0.44
6:J:300:ASP:O	6:J:304:LEU:HD13	2.17	0.44
6:J:372:PHE:O	6:J:372:PHE:CD1	2.69	0.44
3:P:430:GLU:OE2	3:P:528:PRO:HA	2.16	0.44
3:P:527:SER:HB2	3:P:614:LEU:HD22	1.99	0.44
4:Q:22:MET:HA	4:Q:26:ALA:HB3	1.99	0.44
5:R:378:ALA:O	5:R:383:ASN:OD1	2.35	0.44
5:R:389:LEU:C	5:R:389:LEU:CD1	2.85	0.44
5:R:935:GLN:C	5:R:937:LEU:N	2.71	0.44
5:R:1282:ALA:O	5:R:1286:PHE:N	2.47	0.44
5:R:1634:LYS:O	5:R:1638:ILE:N	2.34	0.44
8:U:822:LYS:HE3	8:U:822:LYS:CA	2.44	0.44
6:V:404:ASP:C	6:V:406:PHE:H	2.21	0.44
7:W:508:LYS:HZ2	1:Z:15:SER:HG	1.60	0.44
1:Z:122:LEU:HD23	1:Z:122:LEU:HA	1.73	0.44
1:A:32:LEU:C	1:A:32:LEU:CD2	2.86	0.44
1:A:54:PHE:HA	1:A:57:ARG:CD	2.47	0.44
1:A:589:LEU:O	1:A:604:ILE:HG22	2.17	0.44
5:F:351:HIS:O	5:F:351:HIS:CG	2.70	0.44
5:F:378:ALA:O	5:F:383:ASN:OD1	2.35	0.44
5:F:588:ASN:HB3	5:F:768:VAL:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:900:LEU:C	5:F:900:LEU:CD1	2.82	0.44
5:F:1068:ILE:CD1	5:F:1150:PHE:CE2	3.00	0.44
5:F:1084:LEU:CB	5:F:1156:TYR:CZ	3.00	0.44
5:F:1166:HIS:ND1	5:F:1166:HIS:C	2.70	0.44
5:F:1634:LYS:NZ	5:R:1635:ARG:N	2.66	0.44
8:L:638:ASP:HA	8:L:641:VAL:HG23	1.99	0.44
1:M:212:PHE:CE2	1:M:541:TYR:CZ	3.05	0.44
1:N:54:PHE:HA	1:N:57:ARG:CZ	2.47	0.44
1:N:542:THR:HG21	1:N:557:LEU:HD21	1.99	0.44
1:N:807:LYS:CB	1:N:836:ASP:O	2.63	0.44
3:P:789:VAL:HG21	3:P:952:LEU:CD1	2.47	0.44
3:P:1494:ASN:N	5:R:1471:LYS:HE2	2.32	0.44
4:Q:1038:LYS:HA	4:Q:1038:LYS:HD2	1.79	0.44
4:Q:1359:ILE:HD12	4:Q:1430:LEU:HD23	2.00	0.44
5:R:334:GLN:HB3	5:R:860:ASN:CG	2.37	0.44
5:R:1084:LEU:CB	5:R:1156:TYR:CZ	3.00	0.44
5:R:1439:GLU:O	5:R:1443:ASN:N	2.34	0.44
6:V:371:LYS:NZ	6:V:371:LYS:C	2.70	0.44
7:W:508:LYS:CE	1:Z:16:LYS:HB2	2.47	0.44
3:D:123:GLU:HG2	3:D:124:ARG:H	1.82	0.44
3:D:878:ILE:HG22	3:D:879:ASP:H	1.83	0.44
3:D:936:VAL:O	3:D:936:VAL:HG12	2.18	0.44
3:D:1494:ASN:N	5:F:1471:LYS:HE2	2.32	0.44
5:F:1110:MET:CE	5:F:1157:TRP:HZ2	2.29	0.44
5:F:1191:SER:HB3	5:F:1192:VAL:H	1.51	0.44
5:F:1219:VAL:O	5:F:1221:LEU:N	2.44	0.44
5:F:1305:SER:C	5:F:1307:VAL:N	2.69	0.44
5:F:1359:PHE:CE1	5:F:1363:ILE:CG2	3.00	0.44
6:J:406:PHE:CD1	6:J:406:PHE:O	2.71	0.44
8:L:802:ASP:O	8:L:806:SER:CB	2.65	0.44
1:M:123:MET:CB	6:V:413:ASN:CB	2.95	0.44
1:M:140:ILE:CG2	4:Q:1393:LYS:CE	2.94	0.44
3:P:929:PHE:HA	3:P:932:ILE:HG22	1.99	0.44
5:R:148:PHE:HE2	5:R:216:LEU:HD11	1.83	0.44
5:R:662:PRO:HA	5:R:668:ARG:HE	1.83	0.44
5:R:1026:PHE:HD2	5:R:1034:LEU:HD11	1.83	0.44
6:S:297:ASP:HA	6:S:300:ASP:HB2	1.99	0.44
7:T:415:LEU:HD12	7:T:415:LEU:HA	1.79	0.44
1:Z:542:THR:HG21	1:Z:557:LEU:HD21	1.99	0.44
1:Z:637:ILE:O	1:Z:640:SER:OG	2.29	0.44
1:A:32:LEU:CD1	1:N:22:LEU:HD22	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:PHE:CE2	1:A:541:TYR:CZ	3.06	0.44
3:D:399:SER:O	3:D:407:ALA:HB2	2.17	0.44
3:D:445:ARG:NH1	3:D:466:LYS:HB3	2.32	0.44
4:E:429:LYS:HA	4:E:429:LYS:HD2	1.80	0.44
4:E:495:ASP:HB2	4:E:529:LYS:HG3	1.99	0.44
4:E:1356:LEU:CB	1:Z:453:VAL:CG2	2.94	0.44
5:F:690:GLU:CG	8:I:722:LEU:CG	2.95	0.44
5:F:905:SER:CB	8:I:753:GLU:HB2	2.48	0.44
5:F:1026:PHE:HD2	5:F:1034:LEU:HD11	1.83	0.44
5:F:1084:LEU:CB	5:F:1156:TYR:CE1	3.00	0.44
7:K:444:LEU:CA	7:K:447:SER:CB	2.95	0.44
1:M:333:ILE:HG13	1:M:334:TRP:N	2.33	0.44
1:N:505:HIS:HA	1:N:508:ILE:HD12	2.00	0.44
3:P:353:GLN:HG2	3:P:374:LYS:H	1.82	0.44
4:Q:598:VAL:HG11	4:Q:638:ILE:HD11	2.00	0.44
5:R:676:ASP:HA	5:R:679:ILE:HB	1.99	0.44
5:R:1118:ARG:NH1	5:R:1118:ARG:CG	2.80	0.44
5:R:1283:LYS:HA	5:R:1283:LYS:HD3	1.61	0.44
5:R:1363:ILE:C	5:R:1363:ILE:CD1	2.85	0.44
7:T:314:ASN:HB2	7:T:361:ARG:HH22	1.81	0.44
8:X:637:LEU:O	8:X:641:VAL:HG23	2.18	0.44
1:Z:757:ALA:HA	1:Z:820:ILE:CB	2.47	0.44
1:A:125:ILE:CB	4:E:1212:THR:OG1	2.65	0.44
1:A:644:TYR:O	1:A:648:GLU:N	2.51	0.44
3:D:617:ALA:HB1	3:D:782:ARG:HH22	1.82	0.44
4:E:22:MET:HA	4:E:26:ALA:HB3	1.99	0.44
4:E:806:PHE:HE2	4:E:854:LEU:HD21	1.82	0.44
4:E:1421:ILE:HA	4:E:1424:LEU:HD23	1.99	0.44
5:F:148:PHE:HA	5:F:151:ILE:HG12	1.99	0.44
5:F:452:LYS:HA	5:F:452:LYS:HD2	1.70	0.44
5:F:616:VAL:O	5:F:620:THR:OG1	2.24	0.44
5:F:841:PHE:HE2	5:F:918:PHE:CE1	2.22	0.44
5:F:1623:VAL:HA	5:F:1626:VAL:HG22	2.00	0.44
6:G:451:MET:HE3	1:M:14:THR:CB	2.44	0.44
7:K:395:ALA:O	7:K:399:LEU:HB3	2.17	0.44
1:M:619:PHE:O	1:M:623:ILE:HG22	2.18	0.44
3:P:235:SER:CB	3:P:240:LEU:HD13	2.45	0.44
3:P:412:ILE:HG13	3:P:413:LEU:CD1	2.44	0.44
3:P:445:ARG:NH1	3:P:466:LYS:HB3	2.32	0.44
3:P:615:PHE:CE2	3:P:627:GLU:HG2	2.52	0.44
3:P:799:THR:HG23	3:P:803:PHE:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:830:SER:CB	3:P:934:SER:HB3	2.38	0.44
3:P:986:THR:C	3:P:988:LEU:H	2.20	0.44
4:Q:806:PHE:HE2	4:Q:854:LEU:HD21	1.82	0.44
4:Q:955:PHE:O	4:Q:959:LEU:HB2	2.17	0.44
4:Q:1022:TYR:CD2	4:Q:1026:THR:HG22	2.38	0.44
4:Q:1122:PHE:HA	4:Q:1125:GLU:HG2	1.99	0.44
5:R:48:ARG:NH1	5:R:85:GLU:OE2	2.47	0.44
5:R:365:LYS:HA	5:R:369:GLN:CB	2.47	0.44
5:R:680:PHE:HA	5:R:745:ARG:HH12	1.83	0.44
5:R:881:THR:HA	5:R:885:GLU:HB3	2.00	0.44
5:R:1191:SER:HB3	5:R:1192:VAL:H	1.51	0.44
7:W:315:LYS:CD	7:W:347:THR:HG22	2.48	0.44
7:W:395:ALA:O	7:W:399:LEU:HB3	2.17	0.44
1:A:760:PHE:HD2	1:A:823:ARG:HH11	1.66	0.44
3:D:527:SER:HB2	3:D:614:LEU:HD22	1.99	0.44
5:F:943:ARG:HB3	5:F:947:LYS:NZ	2.32	0.44
5:F:1026:PHE:HE1	5:F:1049:LEU:HD11	1.83	0.44
5:F:1068:ILE:HD12	5:F:1150:PHE:HD2	1.52	0.44
5:F:1138:PHE:C	5:F:1140:GLU:H	2.21	0.44
6:G:289:GLN:CD	6:J:352:VAL:HG22	2.32	0.44
7:H:313:TYR:HD1	7:H:349:PRO:HB3	1.82	0.44
6:J:364:ILE:HG23	7:K:424:ASN:HB3	1.99	0.44
1:M:253:LEU:HG	1:M:257:TRP:CD1	2.53	0.44
1:N:822:TYR:HB3	1:N:824:MET:CE	2.48	0.44
3:P:445:ARG:O	3:P:465:ILE:HA	2.18	0.44
3:P:781:LEU:HD11	3:P:903:ILE:HG21	2.00	0.44
3:P:936:VAL:HG12	3:P:936:VAL:O	2.18	0.44
4:Q:23:ASN:HD22	4:Q:838:LYS:HD2	1.81	0.44
4:Q:119:ASN:OD1	4:Q:119:ASN:N	2.50	0.44
4:Q:216:TYR:CD1	4:Q:220:PHE:HB2	2.51	0.44
4:Q:696:GLY:HA2	5:R:1383:GLN:CB	2.47	0.44
4:Q:773:LEU:O	4:Q:773:LEU:HD22	2.17	0.44
5:R:56:ILE:HG13	5:R:66:VAL:HG21	1.99	0.44
5:R:300:MET:HG3	5:R:303:LYS:HE2	2.00	0.44
5:R:672:TRP:CE2	5:R:716:LEU:HD12	2.53	0.44
5:R:920:ILE:CG2	5:R:926:LEU:HG	2.48	0.44
5:R:1472:GLU:OE2	5:R:1473:ASN:ND2	2.50	0.44
1:A:30:ASP:OD1	1:A:30:ASP:N	2.49	0.44
1:A:193:LEU:CD1	1:A:578:GLU:HG3	2.48	0.44
3:D:445:ARG:O	3:D:465:ILE:HA	2.18	0.44
3:D:585:ILE:O	3:D:589:HIS:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:608:ILE:CD1	3:D:641:VAL:HG13	2.48	0.44
3:D:615:PHE:CE2	3:D:627:GLU:HG2	2.52	0.44
4:E:793:LEU:HD23	4:E:793:LEU:HA	1.77	0.44
4:E:1087:TYR:HB2	4:E:1213:THR:HG21	2.00	0.44
4:E:1134:TRP:NE1	4:E:1170:ASP:OD2	2.41	0.44
4:E:1276:LYS:HD2	4:E:1276:LYS:HA	1.71	0.44
4:E:1305:ASN:OD1	4:E:1305:ASN:N	2.51	0.44
4:E:1475:SER:HA	4:E:1478:ILE:HD12	2.00	0.44
5:F:56:ILE:HG13	5:F:66:VAL:HG21	1.99	0.44
5:F:547:PHE:HE2	5:F:619:VAL:HG11	1.82	0.44
5:F:663:LYS:HA	5:F:720:HIS:CE1	2.53	0.44
5:F:881:THR:HA	5:F:885:GLU:HB3	2.00	0.44
5:F:935:GLN:C	5:F:937:LEU:N	2.71	0.44
5:F:1543:LEU:HD12	5:F:1543:LEU:O	2.18	0.44
6:G:427:GLU:HB3	8:I:779:THR:HG21	1.99	0.44
8:I:778:LYS:C	8:I:778:LYS:CD	2.85	0.44
8:I:795:LYS:HZ3	8:I:795:LYS:HB2	1.82	0.44
6:J:389:ARG:CZ	6:J:389:ARG:C	2.85	0.44
7:K:315:LYS:CD	7:K:347:THR:HG22	2.48	0.44
7:K:413:LEU:HD21	8:L:749:GLN:HB3	2.00	0.44
1:M:227:GLN:NE2	1:M:606:GLU:O	2.50	0.44
1:M:775:LEU:HD22	1:M:832:LEU:HD11	1.99	0.44
1:N:661:LEU:HA	1:N:664:THR:HG22	2.00	0.44
2:O:899:ALA:HB3	2:O:941:ASN:HD22	1.83	0.44
3:P:763:ASP:O	3:P:765:ILE:HG12	2.17	0.44
4:Q:1043:LEU:HB3	4:Q:1078:ILE:HD11	2.00	0.44
4:Q:1430:LEU:O	4:Q:1432:ARG:NH1	2.51	0.44
7:T:295:CYS:HA	7:T:298:SER:HB2	1.99	0.44
7:T:470:ALA:O	7:T:474:SER:HB2	2.17	0.44
8:U:788:ASP:OD1	8:U:788:ASP:N	2.49	0.44
7:W:444:LEU:CA	7:W:447:SER:CB	2.95	0.44
1:Z:357:LYS:HA	1:Z:360:ILE:HB	2.00	0.44
1:Z:391:HIS:HE2	1:Z:417:ARG:HB3	1.82	0.44
1:Z:766:ASN:O	1:Z:769:LYS:N	2.50	0.44
1:Z:822:TYR:HB3	1:Z:824:MET:CE	2.48	0.44
1:A:128:LEU:CB	4:E:1260:TYR:CE2	3.00	0.44
1:A:333:ILE:HG13	1:A:334:TRP:N	2.33	0.44
4:E:683:ASP:OD1	4:E:689:GLY:N	2.36	0.44
4:E:955:PHE:O	4:E:959:LEU:HB2	2.17	0.44
4:E:1359:ILE:HD12	4:E:1430:LEU:HD23	2.00	0.44
5:F:1490:ARG:HE	5:F:1493:LYS:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:436:LEU:CD1	7:H:503:ASN:CB	2.96	0.44
6:G:447:PHE:CE2	1:M:14:THR:HB	2.53	0.44
6:J:277:ILE:HG12	8:L:641:VAL:HG22	1.99	0.44
1:M:644:TYR:O	1:M:648:GLU:N	2.51	0.44
1:N:474:PHE:HB3	1:N:477:TYR:HB3	2.00	0.44
3:P:608:ILE:CD1	3:P:641:VAL:HG13	2.48	0.44
3:P:878:ILE:HG22	3:P:879:ASP:H	1.83	0.44
4:Q:320:MET:O	4:Q:324:SER:OG	2.23	0.44
4:Q:912:TRP:CD1	4:Q:917:PRO:HD3	2.52	0.44
4:Q:1020:ILE:HA	4:Q:1023:VAL:HG12	1.99	0.44
4:Q:1052:LYS:HZ2	4:Q:1068:LEU:HD23	1.82	0.44
5:R:663:LYS:HA	5:R:720:HIS:CE1	2.53	0.44
5:R:900:LEU:HD13	5:R:904:TYR:CD1	2.53	0.44
5:R:1543:LEU:HD12	5:R:1543:LEU:O	2.18	0.44
7:T:303:THR:HG23	7:T:353:TYR:CZ	2.53	0.44
7:T:313:TYR:HD1	7:T:349:PRO:HB3	1.82	0.44
8:U:795:LYS:C	8:U:795:LYS:CD	2.85	0.44
6:V:284:ILE:O	6:V:288:VAL:HG23	2.17	0.44
6:V:406:PHE:CD1	6:V:406:PHE:O	2.71	0.44
8:X:637:LEU:CD2	8:X:640:LEU:HB2	2.48	0.44
1:Z:116:LYS:HZ3	1:Z:116:LYS:C	2.21	0.44
1:A:436:LEU:HD21	1:A:481:THR:HG23	2.00	0.44
1:A:628:ALA:HB1	1:A:644:TYR:CE2	2.53	0.44
3:D:986:THR:C	3:D:988:LEU:H	2.20	0.44
4:E:1122:PHE:HA	4:E:1125:GLU:HG2	1.99	0.44
5:F:200:LEU:HA	5:F:200:LEU:HD13	1.79	0.44
5:F:334:GLN:HB3	5:F:860:ASN:CG	2.37	0.44
5:F:389:LEU:C	5:F:389:LEU:CD1	2.86	0.44
5:F:1617:SER:O	5:F:1617:SER:OG	2.28	0.44
6:J:383:LYS:CD	8:L:756:ASN:CG	2.85	0.44
6:J:406:PHE:HB2	7:K:469:ARG:NH2	2.33	0.44
8:L:637:LEU:O	8:L:641:VAL:HG23	2.18	0.44
1:M:735:THR:O	1:M:739:MET:HG2	2.18	0.44
3:P:214:VAL:HA	3:P:233:LEU:O	2.18	0.44
3:P:394:GLU:O	3:P:398:ILE:HG13	2.18	0.44
4:Q:40:ILE:HD12	4:Q:40:ILE:HA	1.90	0.44
4:Q:1087:TYR:HB2	4:Q:1213:THR:HG21	2.00	0.44
5:R:426:GLN:HA	5:R:429:GLU:HG3	2.00	0.44
5:R:1406:TYR:OH	5:R:1444:ASP:OD2	2.33	0.44
7:T:431:ILE:H	7:T:431:ILE:HG13	1.57	0.44
8:X:749:GLN:NE2	8:X:752:ASP:OD2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:196:ASN:HD21	1:Z:530:ARG:NE	2.13	0.44
1:A:227:GLN:NE2	1:A:606:GLU:O	2.50	0.43
1:A:341:LEU:HD21	1:A:371:PHE:CZ	2.53	0.43
3:D:401:ILE:CG2	3:D:462:LEU:HB3	2.30	0.43
4:E:119:ASN:N	4:E:119:ASN:OD1	2.51	0.43
4:E:254:SER:OG	5:F:1191:SER:HA	2.17	0.43
4:E:605:LYS:O	4:E:605:LYS:NZ	2.37	0.43
5:F:148:PHE:HE2	5:F:216:LEU:HD11	1.83	0.43
5:F:1363:ILE:HG22	1:Z:125:ILE:HD11	1.97	0.43
7:H:303:THR:HG23	7:H:353:TYR:CZ	2.53	0.43
6:J:372:PHE:CD2	6:J:372:PHE:C	2.89	0.43
1:M:125:ILE:CB	4:Q:1212:THR:OG1	2.65	0.43
1:M:128:LEU:CB	4:Q:1260:TYR:CE2	3.00	0.43
1:M:591:GLY:HA3	1:M:600:ILE:O	2.18	0.43
1:M:621:HIS:ND1	1:M:625:GLU:OE2	2.32	0.43
1:M:628:ALA:HB1	1:M:644:TYR:CE2	2.53	0.43
1:M:709:LYS:O	1:M:713:ILE:HG12	2.18	0.43
1:N:239:ILE:HD12	1:N:258:LYS:HD3	1.99	0.43
3:P:605:VAL:HG11	3:P:608:ILE:HD11	2.00	0.43
3:P:648:GLU:HG3	3:P:650:TYR:HE1	1.83	0.43
5:R:285:PHE:O	5:R:289:CYS:N	2.48	0.43
5:R:659:ASN:OD1	5:R:659:ASN:N	2.51	0.43
5:R:1000:LEU:HA	5:R:1000:LEU:HD13	1.82	0.43
5:R:1623:VAL:HA	5:R:1626:VAL:HG22	2.00	0.43
5:R:1672:MET:O	5:R:1675:THR:OG1	2.29	0.43
6:V:384:LEU:C	6:V:384:LEU:CD2	2.85	0.43
1:Z:56:LEU:HD22	1:Z:60:ASN:ND2	2.32	0.43
1:Z:436:LEU:HD21	1:Z:481:THR:HG23	2.00	0.43
1:Z:807:LYS:C	1:Z:836:ASP:O	2.56	0.43
1:A:591:GLY:HA3	1:A:600:ILE:O	2.18	0.43
1:A:619:PHE:O	1:A:623:ILE:HG22	2.18	0.43
3:D:508:LYS:CG	3:D:516:LEU:HA	2.48	0.43
3:D:713:ILE:HD12	3:D:769:ARG:CD	2.48	0.43
3:D:799:THR:HG23	3:D:803:PHE:O	2.18	0.43
4:E:216:TYR:CD1	4:E:220:PHE:HB2	2.51	0.43
4:E:530:ILE:HA	4:E:552:LEU:O	2.19	0.43
4:E:773:LEU:O	4:E:773:LEU:HD22	2.17	0.43
5:F:659:ASN:N	5:F:659:ASN:OD1	2.51	0.43
5:F:676:ASP:HA	5:F:679:ILE:HB	1.99	0.43
7:H:394:THR:HA	8:I:697:LEU:HD22	2.01	0.43
7:H:455:LYS:O	7:H:459:LEU:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:511:GLU:HA	7:H:514:THR:CB	2.49	0.43
1:M:193:LEU:CD1	1:M:578:GLU:HG3	2.48	0.43
1:M:198:SER:HB3	1:M:543:LYS:HE2	2.01	0.43
1:N:599:ARG:NE	1:N:605:GLU:OE1	2.40	0.43
1:N:599:ARG:HH22	1:N:620:LEU:HD21	1.84	0.43
1:N:757:ALA:HA	1:N:820:ILE:CB	2.47	0.43
1:N:766:ASN:O	1:N:769:LYS:N	2.50	0.43
3:P:331:ILE:O	3:P:334:VAL:HG23	2.18	0.43
3:P:484:GLN:NE2	3:P:566:LYS:H	2.16	0.43
4:Q:319:PRO:HG2	4:Q:361:LYS:HD3	2.00	0.43
4:Q:343:ASP:O	4:Q:347:THR:OG1	2.36	0.43
4:Q:795:ILE:O	4:Q:798:SER:OG	2.29	0.43
4:Q:950:ARG:HG3	4:Q:1012:VAL:HA	2.00	0.43
4:Q:963:LYS:HB2	4:Q:963:LYS:HE3	1.84	0.43
4:Q:976:PHE:HZ	7:W:457:ASN:HB3	1.83	0.43
4:Q:1274:GLU:HA	4:Q:1277:ILE:HD12	1.99	0.43
4:Q:1395:ILE:HD12	4:Q:1398:VAL:HB	2.00	0.43
5:R:253:LYS:NZ	5:R:257:SER:OG	2.44	0.43
5:R:905:SER:CB	8:U:749:GLN:O	2.66	0.43
6:S:343:ASP:O	6:S:347:THR:OG1	2.31	0.43
6:V:286:LYS:O	6:V:290:ILE:HG12	2.17	0.43
6:V:405:LEU:HD13	7:W:470:ALA:N	2.30	0.43
7:W:508:LYS:HE3	1:Z:16:LYS:HB2	1.99	0.43
8:X:809:ASP:HA	8:X:812:THR:HB	2.00	0.43
1:Z:767:ILE:CD1	1:Z:768:VAL:HG23	2.48	0.43
1:Z:771:ILE:CG2	1:Z:772:PRO:CD	2.92	0.43
1:Z:775:LEU:HD22	1:Z:775:LEU:HA	1.64	0.43
1:A:253:LEU:HG	1:A:257:TRP:CD1	2.53	0.43
1:A:771:ILE:HD13	1:A:774:LEU:HD12	2.00	0.43
3:D:235:SER:CB	3:D:240:LEU:HD13	2.45	0.43
3:D:353:GLN:HG2	3:D:374:LYS:H	1.82	0.43
3:D:394:GLU:O	3:D:398:ILE:HG13	2.18	0.43
3:D:568:GLN:NE2	3:D:570:VAL:O	2.52	0.43
4:E:36:GLN:HE22	4:E:943:VAL:HA	1.83	0.43
4:E:1071:LYS:HD3	4:E:1071:LYS:HA	1.83	0.43
4:E:1274:GLU:HA	4:E:1277:ILE:HD12	1.99	0.43
5:F:23:ASP:OD1	5:F:23:ASP:N	2.47	0.43
5:F:583:SER:O	5:F:583:SER:OG	2.28	0.43
5:F:672:TRP:CE2	5:F:716:LEU:HD12	2.53	0.43
5:F:742:GLN:HG3	5:F:747:VAL:HA	2.01	0.43
5:F:1281:LYS:HA	5:F:1281:LYS:HD2	1.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:297:ASP:HA	6:G:300:ASP:HB2	2.00	0.43
6:G:350:PHE:HE2	7:H:418:GLN:HE22	1.63	0.43
7:H:386:LEU:HD21	8:I:687:GLU:HA	2.00	0.43
8:I:798:ASN:O	8:I:801:PHE:CB	2.66	0.43
8:L:667:GLN:O	8:L:670:VAL:HG22	2.18	0.43
1:M:54:PHE:HA	1:M:57:ARG:CD	2.47	0.43
1:M:222:PHE:HD1	1:M:232:PHE:HB3	1.83	0.43
1:N:453:VAL:CG2	4:Q:1356:LEU:CB	2.94	0.43
1:N:792:SER:OG	1:N:799:LYS:NZ	2.43	0.43
4:Q:495:ASP:HB2	4:Q:529:LYS:HG3	1.99	0.43
5:R:131:TYR:O	5:R:135:ILE:HG12	2.19	0.43
5:R:213:ILE:HB	5:R:240:LEU:HD13	2.00	0.43
5:R:905:SER:CB	8:U:753:GLU:HB2	2.48	0.43
5:R:1490:ARG:HE	5:R:1493:LYS:HB3	1.83	0.43
5:R:1606:GLN:O	5:R:1610:ALA:CB	2.60	0.43
6:S:436:LEU:CD1	7:T:503:ASN:CB	2.96	0.43
7:T:511:GLU:HA	7:T:514:THR:CB	2.48	0.43
8:U:795:LYS:HA	8:U:795:LYS:HZ3	1.82	0.43
6:V:372:PHE:CD2	6:V:372:PHE:C	2.89	0.43
6:V:389:ARG:CZ	6:V:389:ARG:HB3	2.44	0.43
7:W:437:TRP:HB3	8:X:744:ALA:HB3	2.00	0.43
1:Z:116:LYS:HZ3	1:Z:116:LYS:CB	2.21	0.43
1:A:137:ASP:OD2	4:E:1386:LEU:HG	2.16	0.43
1:A:735:THR:O	1:A:739:MET:HG2	2.18	0.43
3:D:735:SER:O	3:D:739:THR:OG1	2.32	0.43
3:D:909:PHE:O	3:D:913:LEU:HG	2.19	0.43
3:D:1140:LYS:HZ1	1:N:204:GLU:CA	2.06	0.43
4:E:950:ARG:HG3	4:E:1012:VAL:HA	2.00	0.43
5:F:213:ILE:HB	5:F:240:LEU:HD13	2.01	0.43
5:F:1283:LYS:HA	5:F:1283:LYS:NZ	2.34	0.43
5:F:1286:PHE:O	5:F:1286:PHE:CD1	2.70	0.43
8:I:731:GLY:C	8:I:733:ALA:N	2.71	0.43
1:M:225:SER:O	1:M:229:ASN:N	2.51	0.43
1:M:436:LEU:HD21	1:M:481:THR:HG23	2.00	0.43
1:N:78:LEU:HB3	1:N:83:VAL:CG2	2.48	0.43
1:N:510:LEU:HB3	1:N:516:PHE:HB2	2.00	0.43
3:P:123:GLU:HG2	3:P:124:ARG:H	1.82	0.43
3:P:430:GLU:OE1	3:P:528:PRO:HD3	2.18	0.43
4:Q:36:GLN:HE22	4:Q:943:VAL:HA	1.83	0.43
4:Q:305:ASP:O	4:Q:309:ASN:CB	2.67	0.43
4:Q:1408:LEU:HD21	4:Q:1456:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:351:HIS:CG	5:R:351:HIS:O	2.70	0.43
5:R:421:ILE:C	5:R:423:LEU:N	2.72	0.43
5:R:925:HIS:HA	5:R:928:LEU:HD11	2.00	0.43
5:R:1309:LEU:C	5:R:1309:LEU:CD2	2.86	0.43
7:T:420:ALA:CB	8:U:745:TYR:HE1	2.18	0.43
8:U:798:ASN:O	8:U:801:PHE:CB	2.66	0.43
6:V:298:THR:HA	8:X:658:TYR:CE1	2.54	0.43
6:V:398:VAL:HG21	7:W:466:LEU:CD1	2.36	0.43
6:V:406:PHE:HB2	7:W:469:ARG:NH2	2.33	0.43
6:V:431:GLN:O	8:X:782:ILE:HA	2.19	0.43
8:X:664:SER:O	8:X:668:VAL:HG23	2.18	0.43
8:X:695:GLN:NE2	8:X:696:SER:OG	2.51	0.43
8:X:816:LYS:HA	8:X:816:LYS:HD2	1.83	0.43
1:Z:786:ILE:HD11	1:Z:838:SER:HA	2.01	0.43
1:A:222:PHE:HD1	1:A:232:PHE:HB3	1.83	0.43
2:C:79:HIS:CE1	2:C:704:VAL:HG11	2.54	0.43
3:D:331:ILE:O	3:D:334:VAL:HG23	2.18	0.43
5:F:662:PRO:HA	5:F:668:ARG:HE	1.83	0.43
5:F:726:SER:HA	5:F:730:VAL:HG22	2.01	0.43
5:F:1227:THR:HA	7:H:472:ASN:CB	2.47	0.43
6:J:372:PHE:O	6:J:372:PHE:CG	2.70	0.43
6:J:379:LEU:HG	6:J:379:LEU:O	2.19	0.43
6:J:395:GLU:HA	6:J:398:VAL:HG22	2.01	0.43
7:K:385:GLN:HA	7:K:385:GLN:NE2	2.23	0.43
7:K:395:ALA:O	7:K:399:LEU:HD23	2.19	0.43
7:K:430:GLY:C	7:K:432:ALA:H	2.20	0.43
1:M:516:PHE:CE2	1:M:534:PHE:HB2	2.54	0.43
1:N:767:ILE:CD1	1:N:768:VAL:HG23	2.48	0.43
1:N:807:LYS:CB	1:N:837:VAL:C	2.84	0.43
3:P:568:GLN:NE2	3:P:570:VAL:O	2.52	0.43
3:P:716:VAL:HB	3:P:885:ALA:HB1	1.99	0.43
4:Q:787:PRO:HG2	4:Q:1143:GLN:HE21	1.84	0.43
5:R:783:ILE:HG13	5:R:784:ILE:H	1.83	0.43
5:R:935:GLN:CB	5:R:998:LEU:CD2	2.97	0.43
5:R:1227:THR:CB	7:T:475:SER:HG	2.14	0.43
7:T:380:LEU:O	7:T:384:THR:OG1	2.25	0.43
7:W:483:VAL:CB	7:W:494:MET:HA	2.49	0.43
8:X:733:ALA:HA	8:X:737:ASN:HD21	1.84	0.43
1:Z:505:HIS:HA	1:Z:508:ILE:HD12	2.00	0.43
1:A:198:SER:HB3	1:A:543:LYS:HE2	2.01	0.43
3:D:118:THR:HB	3:D:623:GLY:CA	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:214:VAL:HA	3:D:233:LEU:O	2.19	0.43
3:D:1467:SER:CA	1:Z:621:HIS:CE1	3.02	0.43
4:E:1430:LEU:O	4:E:1432:ARG:NH1	2.51	0.43
5:F:227:ASP:CA	5:F:361:LEU:CB	2.97	0.43
5:F:300:MET:HG3	5:F:303:LYS:HE2	2.00	0.43
5:F:421:ILE:C	5:F:423:LEU:N	2.72	0.43
5:F:1257:LEU:HD23	5:F:1257:LEU:HA	1.84	0.43
5:F:1519:LYS:HA	5:F:1522:VAL:HG12	2.00	0.43
5:F:1618:SER:CB	1:Z:634:ASP:O	2.67	0.43
6:G:458:ALA:HB3	1:Z:32:LEU:HD21	2.00	0.43
7:H:298:SER:OG	7:H:305:LYS:O	2.25	0.43
7:H:412:ILE:O	7:H:415:LEU:HB2	2.17	0.43
7:H:508:LYS:HD2	7:H:508:LYS:HA	1.43	0.43
7:K:454:GLY:C	7:K:456:THR:H	2.22	0.43
8:L:809:ASP:HA	8:L:812:THR:HB	2.00	0.43
3:P:508:LYS:CG	3:P:516:LEU:HA	2.49	0.43
3:P:509:PHE:CD1	3:P:515:VAL:HG23	2.54	0.43
3:P:667:LEU:HD12	3:P:669:PHE:HB2	2.00	0.43
3:P:684:PHE:O	3:P:688:LYS:HB2	2.19	0.43
3:P:793:PHE:CZ	3:P:934:SER:HB2	2.54	0.43
5:R:742:GLN:HG3	5:R:747:VAL:HA	2.01	0.43
5:R:841:PHE:CZ	5:R:922:LEU:HB2	2.54	0.43
5:R:909:LEU:O	7:T:403:SER:CB	2.66	0.43
5:R:1285:HIS:O	5:R:1285:HIS:CG	2.70	0.43
8:X:728:THR:OG1	8:X:733:ALA:O	2.33	0.43
1:Z:18:ALA:CA	1:Z:21:LYS:HB3	2.47	0.43
1:Z:138:ASN:C	1:Z:138:ASN:ND2	2.72	0.43
3:D:582:ASP:O	3:D:585:ILE:HG22	2.19	0.43
5:F:159:LYS:HD3	5:F:159:LYS:HA	1.82	0.43
5:F:680:PHE:HA	5:F:745:ARG:HH12	1.83	0.43
5:F:920:ILE:CG2	5:F:926:LEU:HG	2.48	0.43
5:F:1489:ILE:HA	5:F:1492:LEU:HD12	2.01	0.43
7:H:420:ALA:CB	8:I:745:TYR:CD1	2.96	0.43
8:L:664:SER:O	8:L:667:GLN:HG3	2.19	0.43
1:M:532:ILE:HG22	1:M:532:ILE:O	2.18	0.43
1:N:136:PHE:CD1	1:N:136:PHE:O	2.71	0.43
1:N:138:ASN:C	1:N:138:ASN:ND2	2.72	0.43
1:N:436:LEU:HD21	1:N:481:THR:HG23	2.00	0.43
1:N:687:LEU:HD23	1:N:690:ARG:HD2	2.01	0.43
3:P:454:ARG:HA	3:P:455:PHE:HA	1.73	0.43
3:P:909:PHE:O	3:P:913:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:220:VAL:HA	5:R:223:LEU:HG	2.01	0.43
5:R:227:ASP:CA	5:R:361:LEU:CB	2.97	0.43
5:R:320:GLU:CD	5:R:351:HIS:ND1	2.71	0.43
5:R:672:TRP:O	5:R:675:LEU:HB3	2.19	0.43
5:R:1283:LYS:HA	5:R:1283:LYS:NZ	2.34	0.43
6:V:305:ILE:HG21	8:X:665:TRP:NE1	2.34	0.43
6:V:435:GLY:O	6:V:440:VAL:CB	2.67	0.43
1:Z:121:ILE:HD12	1:Z:121:ILE:HA	1.64	0.43
1:A:138:ASN:C	1:A:138:ASN:ND2	2.72	0.43
1:A:140:ILE:HG23	4:E:1393:LYS:HD3	1.84	0.43
1:A:649:GLU:OE1	1:A:652:ILE:HD12	2.19	0.43
3:D:491:ARG:HG3	3:D:521:LYS:N	2.34	0.43
3:D:766:LEU:HD22	3:D:889:GLU:HA	2.01	0.43
3:D:781:LEU:HD11	3:D:903:ILE:HG21	2.00	0.43
4:E:260:ARG:CZ	4:E:761:PHE:CZ	3.00	0.43
4:E:305:ASP:O	4:E:309:ASN:CB	2.67	0.43
4:E:1408:LEU:HD21	4:E:1456:ILE:HD11	2.00	0.43
5:F:841:PHE:CZ	5:F:922:LEU:HB2	2.54	0.43
8:I:795:LYS:C	8:I:795:LYS:NZ	2.72	0.43
6:J:435:GLY:O	6:J:440:VAL:CB	2.67	0.43
8:L:637:LEU:CD2	8:L:640:LEU:HB2	2.48	0.43
1:M:370:TYR:CD2	1:M:390:LEU:HD13	2.54	0.43
1:M:776:ILE:CD1	1:M:828:THR:HG23	2.49	0.43
1:N:391:HIS:HE2	1:N:417:ARG:HB3	1.83	0.43
1:N:634:ASP:O	5:R:1618:SER:CB	2.67	0.43
1:N:709:LYS:NZ	1:N:764:ASP:HB3	2.34	0.43
3:P:375:SER:O	3:P:420:ILE:HD12	2.19	0.43
3:P:485:GLN:OE1	3:P:485:GLN:N	2.51	0.43
3:P:611:LEU:HG	3:P:640:ALA:HB2	2.00	0.43
3:P:766:LEU:HD22	3:P:889:GLU:HA	2.01	0.43
3:P:976:THR:CB	3:P:981:ILE:CA	2.97	0.43
4:Q:442:LEU:HD23	4:Q:442:LEU:HA	1.86	0.43
4:Q:1475:SER:HA	4:Q:1478:ILE:HD12	2.00	0.43
5:R:731:PHE:CD2	5:R:790:SER:HA	2.54	0.43
5:R:1182:ASN:OD1	5:R:1182:ASN:N	2.51	0.43
6:S:398:VAL:HA	6:S:401:ILE:HG12	2.01	0.43
6:V:405:LEU:HD23	6:V:405:LEU:C	2.38	0.43
1:Z:474:PHE:HB3	1:Z:477:TYR:HB3	2.00	0.43
1:A:703:SER:OG	1:A:711:LYS:NZ	2.39	0.43
3:D:451:SER:HB2	3:D:458:GLU:HB2	2.01	0.43
3:D:484:GLN:NE2	3:D:566:LYS:H	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:633:THR:OG1	3:D:783:ASP:OD1	2.27	0.43
4:E:787:PRO:HG2	4:E:1143:GLN:HE21	1.84	0.43
4:E:976:PHE:HZ	7:K:457:ASN:HB3	1.83	0.43
5:F:131:TYR:O	5:F:135:ILE:HG12	2.18	0.43
5:F:900:LEU:HD13	5:F:904:TYR:CD1	2.53	0.43
5:F:909:LEU:O	7:H:403:SER:CB	2.66	0.43
5:F:1349:PHE:N	5:F:1349:PHE:HD1	2.15	0.43
5:F:1362:ASP:CB	1:Z:125:ILE:CG2	2.97	0.43
6:G:452:ASP:CB	1:Z:84:ASP:CG	2.87	0.43
8:I:795:LYS:C	8:I:795:LYS:CD	2.85	0.43
8:I:805:ARG:CB	1:Z:88:LYS:HE2	2.47	0.43
6:J:305:ILE:HG21	8:L:665:TRP:NE1	2.34	0.43
7:K:437:TRP:HB3	8:L:744:ALA:HB3	2.00	0.43
8:L:664:SER:O	8:L:668:VAL:HG23	2.18	0.43
1:M:679:ASP:OD2	1:M:684:ASN:ND2	2.50	0.43
1:M:703:SER:OG	1:M:711:LYS:NZ	2.39	0.43
1:N:84:ASP:CG	6:S:452:ASP:CB	2.87	0.43
1:N:122:LEU:HD23	1:N:122:LEU:HA	1.73	0.43
3:P:582:ASP:O	3:P:585:ILE:HG22	2.19	0.43
3:P:988:LEU:HA	3:P:992:CYS:CB	2.49	0.43
4:Q:443:ILE:HD12	4:Q:590:LEU:HD11	2.01	0.43
4:Q:1319:LEU:CD2	4:Q:1398:VAL:HG22	2.46	0.43
5:R:229:PHE:O	5:R:233:TYR:N	2.52	0.43
5:R:1519:LYS:HA	5:R:1522:VAL:HG12	2.00	0.43
8:U:685:MET:O	8:U:688:HIS:ND1	2.45	0.43
8:X:638:ASP:HA	8:X:641:VAL:HG23	1.99	0.43
1:Z:136:PHE:CD1	1:Z:136:PHE:O	2.72	0.43
1:A:131:GLY:HA2	1:A:134:LYS:HD3	2.01	0.43
3:D:667:LEU:HD12	3:D:669:PHE:HB2	2.00	0.43
3:D:793:PHE:CZ	3:D:934:SER:HB2	2.54	0.43
3:D:1377:ASN:HD21	1:Z:758:GLN:HE21	1.59	0.43
4:E:598:VAL:HG11	4:E:638:ILE:HD11	2.00	0.43
4:E:963:LYS:HB2	4:E:963:LYS:HE3	1.84	0.43
4:E:1561:LEU:HD13	4:E:1585:LEU:HD11	2.01	0.43
5:F:135:ILE:HG23	5:F:206:ILE:HA	2.01	0.43
5:F:158:ILE:HA	5:F:183:ARG:CZ	2.49	0.43
5:F:606:VAL:HA	5:F:609:LEU:HG	2.01	0.43
5:F:917:PHE:O	5:F:919:ASN:N	2.52	0.43
5:F:1545:ARG:HA	5:F:1548:ALA:HB3	2.01	0.43
6:J:405:LEU:CD1	7:K:469:ARG:C	2.65	0.43
6:J:431:GLN:O	8:L:782:ILE:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:L:695:GLN:NE2	8:L:696:SER:OG	2.51	0.43
1:N:90:LEU:HD23	1:N:90:LEU:HA	1.69	0.43
3:P:467:PHE:CD1	3:P:473:THR:HG23	2.54	0.43
3:P:884:VAL:HB	3:P:887:GLN:OE1	2.19	0.43
3:P:919:VAL:HG12	3:P:920:GLU:N	2.34	0.43
3:P:977:LYS:HD3	1:Z:316:ALA:N	2.29	0.43
4:Q:120:PRO:HB3	4:Q:127:TYR:CG	2.54	0.43
5:R:870:LYS:HA	5:R:870:LYS:HD2	1.85	0.43
5:R:919:ASN:HB3	5:R:920:ILE:H	1.41	0.43
1:A:681:SER:HA	1:A:687:LEU:HB3	2.01	0.42
2:C:1262:LEU:HD23	2:C:1310:MET:HE1	2.00	0.42
3:D:509:PHE:CD1	3:D:515:VAL:HG23	2.54	0.42
3:D:684:PHE:O	3:D:688:LYS:HB2	2.19	0.42
4:E:40:ILE:HD12	4:E:40:ILE:HA	1.90	0.42
5:F:731:PHE:CD2	5:F:790:SER:HA	2.54	0.42
5:F:783:ILE:HG13	5:F:784:ILE:H	1.83	0.42
5:F:825:ILE:O	5:F:825:ILE:HG23	2.19	0.42
5:F:905:SER:CB	8:I:749:GLN:O	2.67	0.42
7:H:444:LEU:HA	7:H:447:SER:HB3	2.01	0.42
7:K:483:VAL:CB	7:K:494:MET:HA	2.49	0.42
8:L:640:LEU:CD1	8:L:643:LYS:HG2	2.49	0.42
8:L:733:ALA:HA	8:L:737:ASN:HD21	1.84	0.42
2:O:79:HIS:CE1	2:O:704:VAL:HG11	2.54	0.42
3:P:212:GLN:N	3:P:235:SER:O	2.47	0.42
3:P:491:ARG:HG3	3:P:521:LYS:N	2.34	0.42
4:Q:569:LEU:HD22	4:Q:634:ILE:HD11	2.01	0.42
4:Q:1561:LEU:HD13	4:Q:1585:LEU:HD11	2.01	0.42
5:R:917:PHE:O	5:R:919:ASN:N	2.52	0.42
5:R:1489:ILE:HA	5:R:1492:LEU:HD12	2.01	0.42
7:T:386:LEU:HD21	8:U:687:GLU:HA	2.00	0.42
6:V:304:LEU:O	6:V:308:ILE:HG12	2.19	0.42
6:V:379:LEU:O	6:V:379:LEU:HG	2.19	0.42
8:X:664:SER:O	8:X:667:GLN:HG3	2.19	0.42
8:X:667:GLN:O	8:X:670:VAL:HG22	2.18	0.42
1:Z:78:LEU:HB3	1:Z:83:VAL:CG2	2.48	0.42
1:A:215:TYR:CD2	1:A:238:PHE:HE1	2.37	0.42
2:C:888:LEU:HA	2:C:892:PHE:HD2	1.84	0.42
3:D:491:ARG:HB2	3:D:521:LYS:H	1.84	0.42
3:D:822:ILE:HG22	3:D:824:GLN:H	1.84	0.42
3:D:988:LEU:HA	3:D:992:CYS:CB	2.49	0.42
4:E:260:ARG:CG	4:E:260:ARG:NH1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:229:PHE:O	5:F:233:TYR:N	2.52	0.42
5:F:320:GLU:CD	5:F:351:HIS:ND1	2.72	0.42
5:F:437:ASP:HA	5:F:440:GLN:HG3	2.01	0.42
5:F:522:MET:SD	5:F:523:ARG:N	2.92	0.42
5:F:1499:LEU:HD23	5:F:1499:LEU:HA	1.92	0.42
6:G:440:VAL:HA	6:G:443:VAL:HB	2.01	0.42
6:G:449:LEU:HA	1:Z:84:ASP:OD1	2.19	0.42
8:I:672:GLY:HA2	8:I:675:GLN:HG2	2.00	0.42
8:I:822:LYS:NZ	8:I:822:LYS:CB	2.82	0.42
6:J:283:TYR:CD2	6:J:286:LYS:HE2	2.55	0.42
6:J:371:LYS:C	6:J:371:LYS:CD	2.88	0.42
7:K:365:GLN:O	7:K:369:VAL:HG23	2.19	0.42
1:M:215:TYR:CD2	1:M:238:PHE:HE1	2.37	0.42
1:M:341:LEU:HD21	1:M:371:PHE:CZ	2.53	0.42
1:N:250:ASN:HA	1:N:253:LEU:CB	2.47	0.42
1:N:748:SER:OG	1:N:752:SER:CB	2.65	0.42
1:N:807:LYS:C	1:N:836:ASP:O	2.56	0.42
5:R:1026:PHE:HE1	5:R:1049:LEU:HD11	1.83	0.42
7:T:532:ALA:HA	8:U:821:ILE:HG13	2.01	0.42
7:W:413:LEU:HD21	8:X:749:GLN:HB3	2.00	0.42
8:X:676:ILE:HD13	8:X:679:LEU:HD22	2.01	0.42
1:Z:444:LYS:HA	1:Z:444:LYS:HD3	1.89	0.42
1:Z:709:LYS:NZ	1:Z:764:ASP:HB3	2.34	0.42
1:Z:779:LEU:CB	1:Z:835:ILE:CA	2.97	0.42
1:A:531:ASP:OD2	1:A:536:ASN:ND2	2.41	0.42
2:C:899:ALA:HB3	2:C:941:ASN:HD22	1.83	0.42
3:D:605:VAL:HG11	3:D:608:ILE:HD11	2.00	0.42
3:D:648:GLU:HG3	3:D:650:TYR:HE1	1.83	0.42
4:E:291:ASP:OD1	4:E:291:ASP:N	2.51	0.42
4:E:569:LEU:HD22	4:E:634:ILE:HD11	2.01	0.42
4:E:1444:LEU:O	4:E:1448:SER:N	2.49	0.42
5:F:426:GLN:HA	5:F:429:GLU:HG3	2.00	0.42
5:F:1634:LYS:HA	5:F:1637:VAL:HG22	2.00	0.42
6:G:296:ALA:CB	6:J:363:LYS:HD2	2.45	0.42
7:H:365:GLN:HA	7:H:368:ASN:HD22	1.84	0.42
6:J:298:THR:HA	8:L:658:TYR:CE1	2.54	0.42
6:J:365:SER:N	7:K:424:ASN:HD21	2.04	0.42
6:J:406:PHE:HB2	7:K:469:ARG:HH21	1.84	0.42
7:K:321:ALA:O	7:K:339:MET:HE3	2.19	0.42
7:K:402:GLN:C	7:K:402:GLN:NE2	2.72	0.42
8:L:682:ASP:OD1	8:L:685:MET:HE3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:491:ARG:HB2	3:P:521:LYS:H	1.83	0.42
3:P:1367:LEU:HD23	3:P:1398:PHE:CE1	2.54	0.42
4:Q:773:LEU:HA	4:Q:773:LEU:HD23	1.50	0.42
5:R:158:ILE:HA	5:R:183:ARG:CZ	2.49	0.42
5:R:589:ASP:OD1	5:R:589:ASP:N	2.52	0.42
5:R:1138:PHE:C	5:R:1140:GLU:H	2.21	0.42
7:T:394:THR:HA	8:U:697:LEU:HD22	2.00	0.42
6:V:371:LYS:O	6:V:371:LYS:CD	2.68	0.42
1:Z:117:LYS:HB3	1:Z:117:LYS:HZ2	1.77	0.42
1:Z:432:ILE:HD12	1:Z:432:ILE:HA	1.91	0.42
1:Z:510:LEU:HB3	1:Z:516:PHE:HB2	2.00	0.42
1:Z:792:SER:OG	1:Z:799:LYS:NZ	2.43	0.42
1:A:225:SER:O	1:A:229:ASN:N	2.51	0.42
1:A:709:LYS:O	1:A:713:ILE:HG12	2.18	0.42
3:D:367:ILE:HA	3:D:380:TYR:O	2.20	0.42
3:D:381:VAL:O	3:D:385:LYS:HA	2.19	0.42
4:E:120:PRO:HB3	4:E:127:TYR:CG	2.54	0.42
4:E:319:PRO:HG2	4:E:361:LYS:HD3	2.00	0.42
4:E:1168:LYS:O	4:E:1174:ASN:ND2	2.45	0.42
4:E:1539:ASN:ND2	4:E:1611:TYR:OH	2.48	0.42
5:F:765:ASP:OD1	5:F:765:ASP:N	2.51	0.42
5:F:925:HIS:HA	5:F:928:LEU:HD11	2.00	0.42
6:G:343:ASP:O	6:G:347:THR:OG1	2.30	0.42
7:H:532:ALA:HA	8:I:821:ILE:HG13	2.01	0.42
6:J:311:ASP:OD2	7:K:376:LEU:HD11	2.20	0.42
6:J:311:ASP:CG	7:K:376:LEU:HD21	2.39	0.42
6:J:334:SER:HA	6:J:337:LYS:HB2	2.01	0.42
6:J:371:LYS:O	6:J:371:LYS:CD	2.68	0.42
1:M:681:SER:OG	1:M:691:ARG:NH1	2.53	0.42
1:M:760:PHE:HD2	1:M:823:ARG:HH11	1.66	0.42
1:N:357:LYS:HA	1:N:360:ILE:HB	2.00	0.42
1:N:453:VAL:CG1	4:Q:1359:ILE:HG21	2.44	0.42
3:P:131:VAL:HG21	3:P:467:PHE:H	1.84	0.42
3:P:381:VAL:O	3:P:385:LYS:HA	2.19	0.42
3:P:514:SER:O	3:P:515:VAL:HG13	2.20	0.42
3:P:873:SER:HB3	3:P:877:VAL:HB	2.01	0.42
3:P:1494:ASN:O	5:R:1471:LYS:NZ	2.49	0.42
4:Q:923:LEU:C	4:Q:923:LEU:CD2	2.88	0.42
4:Q:1412:LEU:HD23	4:Q:1412:LEU:HA	1.90	0.42
5:R:108:LEU:O	5:R:111:GLN:HB3	2.20	0.42
5:R:135:ILE:HG23	5:R:206:ILE:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:825:ILE:O	5:R:825:ILE:HG23	2.19	0.42
5:R:1157:TRP:O	5:R:1158:THR:C	2.55	0.42
5:R:1529:ALA:HB2	5:R:1611:VAL:CB	2.49	0.42
8:U:672:GLY:HA2	8:U:675:GLN:HG2	2.01	0.42
6:V:357:LEU:CG	7:W:423:LYS:HE3	2.40	0.42
6:V:400:GLY:O	6:V:403:THR:HB	2.14	0.42
6:V:406:PHE:HB2	7:W:469:ARG:HH21	1.84	0.42
7:W:454:GLY:C	7:W:456:THR:H	2.22	0.42
1:Z:20:LYS:HA	1:Z:20:LYS:HD3	1.46	0.42
1:Z:211:LYS:N	1:Z:246:ASN:HD21	2.17	0.42
1:Z:687:LEU:HD23	1:Z:690:ARG:HD2	2.01	0.42
1:A:532:ILE:HG22	1:A:532:ILE:O	2.19	0.42
2:C:693:LEU:HB3	2:C:694:PHE:CD1	2.54	0.42
3:D:467:PHE:CD1	3:D:473:THR:HG23	2.54	0.42
3:D:1241:GLY:O	1:Z:826:ARG:CB	2.67	0.42
4:E:36:GLN:NE2	4:E:36:GLN:O	2.53	0.42
5:F:1305:SER:O	5:F:1307:VAL:N	2.49	0.42
5:F:1508:ILE:HG22	5:F:1511:LEU:HD23	2.02	0.42
7:H:415:LEU:HD12	7:H:415:LEU:HA	1.80	0.42
8:I:815:GLU:HB3	8:I:816:LYS:HE3	2.02	0.42
7:K:311:PHE:HD1	7:K:351:GLN:HG3	1.85	0.42
7:K:352:ILE:CG2	7:K:358:LEU:HG	2.47	0.42
1:M:21:LYS:HB2	1:Z:31:ASN:HA	0.90	0.42
1:N:786:ILE:HD11	1:N:838:SER:HA	2.01	0.42
4:Q:192:LEU:HD23	4:Q:195:LEU:HD23	2.01	0.42
4:Q:530:ILE:HA	4:Q:552:LEU:O	2.19	0.42
4:Q:982:ILE:HD12	4:Q:982:ILE:H	1.85	0.42
4:Q:1017:LEU:HD23	4:Q:1017:LEU:HA	1.86	0.42
4:Q:1071:LYS:HA	4:Q:1071:LYS:HD3	1.83	0.42
4:Q:1389:LEU:HA	4:Q:1392:PHE:HD2	1.85	0.42
5:R:37:LEU:HD22	5:R:146:SER:HB2	2.02	0.42
5:R:296:ARG:H	5:R:296:ARG:HG3	1.71	0.42
5:R:914:ASP:HA	5:R:917:PHE:HB2	1.93	0.42
5:R:1359:PHE:CE1	5:R:1363:ILE:CG2	3.00	0.42
7:T:527:LEU:C	7:T:527:LEU:CD2	2.85	0.42
6:V:277:ILE:HD12	6:V:277:ILE:HA	1.95	0.42
6:V:371:LYS:C	6:V:371:LYS:CD	2.88	0.42
7:W:525:GLU:O	7:W:529:LYS:N	2.53	0.42
8:X:640:LEU:CD1	8:X:643:LYS:HG2	2.49	0.42
1:Z:116:LYS:C	1:Z:116:LYS:CE	2.85	0.42
1:Z:599:ARG:HH22	1:Z:620:LEU:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:654:ILE:HG22	1:Z:710:ASN:HB2	2.01	0.42
1:A:682:GLU:HG2	1:A:691:ARG:NH2	2.30	0.42
3:D:919:VAL:HG12	3:D:920:GLU:N	2.34	0.42
4:E:314:ASP:OD1	4:E:314:ASP:N	2.48	0.42
4:E:443:ILE:HD12	4:E:590:LEU:HD11	2.01	0.42
5:F:390:TRP:CB	5:F:393:SER:HB3	2.49	0.42
5:F:929:TYR:C	5:F:931:GLY:N	2.73	0.42
5:F:1088:ARG:HH11	5:F:1088:ARG:CG	2.23	0.42
5:F:1090:PRO:CD	5:F:1093:SER:HB3	2.49	0.42
5:F:1182:ASN:N	5:F:1182:ASN:OD1	2.51	0.42
5:F:1550:LEU:HD11	5:F:1604:ILE:HG21	2.01	0.42
5:F:1558:ASP:CB	5:R:1680:GLN:HE21	2.31	0.42
6:G:398:VAL:HA	6:G:401:ILE:HG12	2.01	0.42
8:L:816:LYS:HD2	8:L:816:LYS:HA	1.82	0.42
1:N:621:HIS:CE1	3:P:1467:SER:CA	3.02	0.42
1:N:779:LEU:CB	1:N:835:ILE:CA	2.97	0.42
1:N:826:ARG:CB	3:P:1241:GLY:O	2.67	0.42
3:P:508:LYS:HE3	3:P:518:GLU:HG2	2.01	0.42
3:P:583:TYR:CE2	3:P:628:PHE:HB2	2.47	0.42
3:P:1137:ASP:N	1:Z:205:ASN:HA	2.34	0.42
5:R:390:TRP:CB	5:R:393:SER:HB3	2.49	0.42
5:R:657:ILE:O	5:R:712:LEU:CD1	2.56	0.42
5:R:726:SER:HA	5:R:730:VAL:HG22	2.01	0.42
5:R:951:ARG:NE	5:R:951:ARG:HA	2.29	0.42
5:R:1196:SER:HB2	5:R:1198:LEU:H	1.84	0.42
7:T:365:GLN:HA	7:T:368:ASN:HD22	1.84	0.42
6:V:311:ASP:CG	7:W:376:LEU:HD21	2.39	0.42
6:V:334:SER:HA	6:V:337:LYS:HB2	2.01	0.42
7:W:402:GLN:C	7:W:402:GLN:NE2	2.72	0.42
7:W:518:ARG:NH1	7:W:518:ARG:C	2.73	0.42
1:A:776:ILE:CD1	1:A:828:THR:HG23	2.49	0.42
3:D:375:SER:O	3:D:420:ILE:HD12	2.19	0.42
3:D:381:VAL:HB	3:D:457:ILE:CG2	2.50	0.42
3:D:1367:LEU:HD23	3:D:1398:PHE:CE1	2.54	0.42
4:E:199:ILE:O	4:E:202:THR:OG1	2.38	0.42
4:E:222:GLU:O	4:E:226:ASN:HB2	2.20	0.42
4:E:916:TYR:CZ	4:E:963:LYS:HB2	2.54	0.42
4:E:982:ILE:HD12	4:E:982:ILE:H	1.85	0.42
4:E:989:ASP:C	4:E:991:LYS:N	2.72	0.42
5:F:864:LEU:HD12	5:F:864:LEU:HA	1.81	0.42
5:F:935:GLN:CB	5:F:998:LEU:CD2	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1118:ARG:HA	5:F:1118:ARG:HD3	1.47	0.42
5:F:1293:ASN:ND2	5:F:1293:ASN:C	2.73	0.42
6:G:305:ILE:HD12	6:G:305:ILE:HA	1.91	0.42
1:N:121:ILE:HD12	1:N:121:ILE:HA	1.64	0.42
3:P:681:THR:O	3:P:685:VAL:HG23	2.20	0.42
4:Q:199:ILE:O	4:Q:202:THR:OG1	2.38	0.42
5:R:144:ILE:HD13	5:R:197:LEU:HD23	2.01	0.42
5:R:929:TYR:C	5:R:931:GLY:N	2.73	0.42
5:R:1293:ASN:ND2	5:R:1293:ASN:C	2.73	0.42
5:R:1550:LEU:HD12	5:R:1604:ILE:HG21	2.01	0.42
5:R:1634:LYS:HA	5:R:1637:VAL:HG22	2.00	0.42
7:T:462:ARG:HA	7:T:465:ILE:HB	2.02	0.42
8:U:795:LYS:HZ3	8:U:795:LYS:HB2	1.85	0.42
6:V:389:ARG:NH1	6:V:389:ARG:HG2	2.31	0.42
6:V:391:LEU:CD1	7:W:455:LYS:HA	2.49	0.42
8:X:794:ILE:HA	8:X:797:LEU:HB3	2.01	0.42
1:A:478:TYR:O	1:A:482:LEU:HG	2.20	0.42
1:A:681:SER:OG	1:A:691:ARG:NH1	2.53	0.42
1:A:785:MET:SD	1:A:806:LEU:HD11	2.60	0.42
3:D:212:GLN:N	3:D:235:SER:O	2.47	0.42
3:D:491:ARG:HB2	3:D:520:THR:HB	2.01	0.42
3:D:611:LEU:HG	3:D:640:ALA:HB2	2.00	0.42
4:E:343:ASP:O	4:E:347:THR:OG1	2.36	0.42
4:E:599:THR:HG23	4:E:660:PHE:HA	2.02	0.42
4:E:923:LEU:C	4:E:923:LEU:CD2	2.88	0.42
4:E:1356:LEU:CB	1:Z:453:VAL:HG21	2.49	0.42
4:E:1387:LEU:O	4:E:1391:LEU:N	2.51	0.42
5:F:245:ARG:NH2	5:F:284:TYR:O	2.45	0.42
7:H:462:ARG:HA	7:H:465:ILE:HB	2.02	0.42
7:K:462:ARG:O	7:K:466:LEU:HD12	2.20	0.42
1:M:479:LEU:HD12	1:M:491:ALA:HB1	2.02	0.42
1:M:681:SER:HA	1:M:687:LEU:HB3	2.01	0.42
1:M:682:GLU:HG2	1:M:691:ARG:NH2	2.30	0.42
1:N:654:ILE:HG22	1:N:710:ASN:HB2	2.01	0.42
2:O:888:LEU:HA	2:O:892:PHE:HD2	1.84	0.42
3:P:381:VAL:HB	3:P:457:ILE:CG2	2.50	0.42
4:Q:1387:LEU:O	4:Q:1391:LEU:N	2.51	0.42
4:Q:1444:LEU:O	4:Q:1448:SER:N	2.49	0.42
5:R:522:MET:SD	5:R:523:ARG:N	2.92	0.42
5:R:911:SER:HB3	5:R:912:PHE:H	1.68	0.42
5:R:1090:PRO:CD	5:R:1093:SER:HB3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1257:LEU:HD23	5:R:1257:LEU:HA	1.84	0.42
5:R:1543:LEU:C	5:R:1543:LEU:CD1	2.88	0.42
7:T:444:LEU:HA	7:T:447:SER:HB3	2.02	0.42
6:V:290:ILE:HD12	7:W:356:GLU:OE2	2.19	0.42
6:V:327:LYS:HG3	6:V:328:GLN:NE2	2.34	0.42
7:W:462:ARG:O	7:W:466:LEU:HD12	2.20	0.42
7:W:509:ILE:HG21	1:Z:12:SER:HB3	1.96	0.42
8:X:679:LEU:O	8:X:682:ASP:HB2	2.20	0.42
1:Z:367:PHE:O	1:Z:370:TYR:HB2	2.20	0.42
1:A:137:ASP:HB2	4:E:1386:LEU:CA	2.43	0.42
1:A:370:TYR:CD2	1:A:390:LEU:HD13	2.54	0.42
2:C:1389:GLY:HA2	4:E:1331:LEU:HD11	2.02	0.42
3:D:884:VAL:HB	3:D:887:GLN:OE1	2.19	0.42
4:E:464:ALA:HB1	4:E:552:LEU:HD21	2.01	0.42
4:E:672:VAL:HG12	4:E:676:LEU:HD12	2.02	0.42
4:E:1043:LEU:HB3	4:E:1078:ILE:HD11	2.00	0.42
6:G:449:LEU:CD2	1:Z:84:ASP:O	2.67	0.42
6:J:290:ILE:HD12	7:K:356:GLU:OE2	2.20	0.42
1:M:92:THR:O	6:V:401:ILE:CD1	2.68	0.42
1:M:138:ASN:C	1:M:138:ASN:ND2	2.73	0.42
1:M:771:ILE:HD13	1:M:774:LEU:HD12	2.00	0.42
1:N:766:ASN:OD1	1:N:766:ASN:N	2.39	0.42
1:N:830:SER:CB	3:P:1238:ARG:CA	2.81	0.42
3:P:1020:ASN:ND2	1:Z:252:GLN:CG	2.83	0.42
5:R:437:ASP:HA	5:R:440:GLN:HG3	2.01	0.42
5:R:460:SER:HB2	5:R:475:LYS:HB3	2.02	0.42
5:R:640:PHE:O	5:R:643:THR:C	2.58	0.42
5:R:790:SER:O	5:R:790:SER:OG	2.36	0.42
6:S:440:VAL:HA	6:S:443:VAL:HB	2.01	0.42
8:U:822:LYS:NZ	8:U:822:LYS:CB	2.82	0.42
6:V:401:ILE:HD12	6:V:401:ILE:HA	1.84	0.42
7:W:315:LYS:HA	7:W:347:THR:CA	2.38	0.42
7:W:395:ALA:O	7:W:399:LEU:HD23	2.19	0.42
1:Z:16:LYS:NZ	1:Z:16:LYS:C	2.72	0.42
1:Z:776:ILE:C	1:Z:778:THR:H	2.23	0.42
3:D:514:SER:O	3:D:515:VAL:HG13	2.20	0.42
3:D:680:SER:OG	3:D:772:GLY:HA2	2.20	0.42
4:E:370:SER:O	4:E:372:ASP:N	2.48	0.42
4:E:421:PHE:O	4:E:425:LEU:CB	2.68	0.42
5:F:285:PHE:O	5:F:289:CYS:N	2.49	0.42
5:F:1196:SER:HB2	5:F:1198:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:379:ILE:C	7:K:382:LYS:H	2.19	0.42
8:L:749:GLN:NE2	8:L:752:ASP:OD2	2.51	0.42
1:M:649:GLU:OE1	1:M:652:ILE:HD12	2.19	0.42
1:N:56:LEU:HD22	1:N:60:ASN:ND2	2.32	0.42
1:N:436:LEU:HA	1:N:439:HIS:HB2	2.02	0.42
3:P:135:PHE:CZ	3:P:485:GLN:HB2	2.55	0.42
3:P:617:ALA:HA	3:P:630:THR:CG2	2.47	0.42
4:Q:36:GLN:O	4:Q:36:GLN:NE2	2.53	0.42
4:Q:599:THR:HG23	4:Q:660:PHE:HA	2.02	0.42
4:Q:952:LEU:HD23	4:Q:952:LEU:HA	1.81	0.42
5:R:1103:GLU:H	5:R:1103:GLU:HG2	1.63	0.42
5:R:1545:ARG:HA	5:R:1548:ALA:HB3	2.01	0.42
8:U:795:LYS:NZ	8:U:799:SER:HB3	2.35	0.42
6:V:383:LYS:HZ1	8:X:756:ASN:HA	0.48	0.42
7:W:315:LYS:HG3	7:W:347:THR:HG22	2.02	0.42
7:W:522:TYR:C	7:W:522:TYR:HD1	2.23	0.42
1:Z:558:VAL:HG21	1:Z:607:ARG:HE	1.85	0.42
1:A:516:PHE:CE2	1:A:534:PHE:HB2	2.54	0.41
3:D:131:VAL:HG21	3:D:467:PHE:H	1.85	0.41
3:D:295:GLU:CD	3:D:316:LYS:HE3	2.40	0.41
4:E:531:LEU:HD23	4:E:531:LEU:HA	1.87	0.41
4:E:923:LEU:CD1	4:E:931:PHE:HE2	2.26	0.41
5:F:672:TRP:O	5:F:675:LEU:HB3	2.19	0.41
5:F:917:PHE:HZ	7:H:400:LYS:HZ2	1.67	0.41
5:F:1082:ILE:HA	5:F:1082:ILE:HD13	1.87	0.41
5:F:1177:VAL:C	5:F:1180:TYR:CB	2.88	0.41
7:K:311:PHE:CD1	7:K:351:GLN:HG3	2.55	0.41
7:K:358:LEU:HD22	8:L:662:ILE:CD1	2.41	0.41
7:K:454:GLY:O	7:K:456:THR:N	2.52	0.41
1:N:49:LEU:C	1:N:49:LEU:HD13	2.40	0.41
1:N:558:VAL:HG21	1:N:607:ARG:HE	1.85	0.41
1:N:771:ILE:CG2	1:N:772:PRO:CD	2.92	0.41
1:N:776:ILE:C	1:N:778:THR:H	2.23	0.41
3:P:451:SER:HB2	3:P:458:GLU:HB2	2.01	0.41
4:Q:1086:ILE:HD13	4:Q:1086:ILE:HA	1.86	0.41
5:R:470:ASP:OD1	5:R:470:ASP:N	2.53	0.41
5:R:606:VAL:HA	5:R:609:LEU:HG	2.01	0.41
5:R:1177:VAL:C	5:R:1180:TYR:CB	2.88	0.41
5:R:1286:PHE:O	5:R:1286:PHE:CD1	2.70	0.41
5:R:1550:LEU:HD11	5:R:1604:ILE:HG21	2.01	0.41
8:X:659:THR:HA	8:X:662:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:710:ASN:OD1	1:Z:710:ASN:N	2.48	0.41
1:Z:807:LYS:CB	1:Z:837:VAL:HA	2.50	0.41
1:A:432:ILE:HD12	1:A:435:TRP:HB3	2.02	0.41
3:D:135:PHE:CZ	3:D:485:GLN:HB2	2.55	0.41
3:D:508:LYS:HE3	3:D:518:GLU:HG2	2.01	0.41
3:D:988:LEU:CB	3:D:1001:ILE:CB	2.98	0.41
4:E:1266:LYS:HD3	4:E:1266:LYS:HA	1.74	0.41
4:E:1389:LEU:HA	4:E:1392:PHE:HD2	1.85	0.41
5:F:42:LEU:HD12	5:F:42:LEU:HA	1.95	0.41
5:F:108:LEU:O	5:F:111:GLN:HB3	2.20	0.41
5:F:189:GLU:HA	5:F:192:ILE:HG12	2.02	0.41
5:F:321:GLN:O	5:F:325:PHE:CB	2.68	0.41
5:F:470:ASP:N	5:F:470:ASP:OD1	2.53	0.41
5:F:866:GLN:OE1	5:F:940:ASN:HB2	2.20	0.41
5:F:968:ILE:HA	7:H:392:LEU:HD11	2.02	0.41
5:F:1144:VAL:HG11	5:F:1291:SER:OG	2.20	0.41
5:F:1282:ALA:O	5:F:1286:PHE:N	2.47	0.41
8:I:792:GLN:HG2	1:Z:42:ILE:HD12	1.48	0.41
6:J:304:LEU:O	6:J:308:ILE:HG12	2.19	0.41
1:M:131:GLY:HA2	1:M:134:LYS:HD3	2.01	0.41
1:M:780:SER:O	1:M:784:ASN:ND2	2.53	0.41
3:P:178:GLU:HB3	3:P:230:HIS:NE2	2.35	0.41
3:P:421:VAL:HG22	3:P:491:ARG:N	2.35	0.41
4:Q:916:TYR:CZ	4:Q:963:LYS:HB2	2.54	0.41
5:R:164:LYS:HA	5:R:167:ILE:HG12	2.02	0.41
5:R:321:GLN:O	5:R:325:PHE:CB	2.69	0.41
5:R:409:MET:CB	5:R:410:PRO:HD2	2.51	0.41
8:U:694:ASP:O	8:U:698:GLN:NE2	2.54	0.41
6:V:306:ASP:O	6:V:309:PRO:HD2	2.20	0.41
6:V:309:PRO:HA	6:V:312:VAL:CB	2.50	0.41
7:W:419:LEU:O	7:W:419:LEU:CD2	2.68	0.41
8:X:682:ASP:OD1	8:X:685:MET:HE3	2.19	0.41
3:D:292:ASN:OD1	3:D:293:ILE:N	2.53	0.41
3:D:681:THR:O	3:D:685:VAL:HG23	2.20	0.41
3:D:846:ILE:HG13	3:D:907:LEU:CD1	2.51	0.41
4:E:268:THR:O	4:E:272:ILE:HG13	2.21	0.41
4:E:331:TYR:HD1	4:E:331:TYR:HA	1.71	0.41
5:F:450:LEU:HA	5:F:453:ILE:HG12	2.02	0.41
5:F:1198:LEU:HD22	5:F:1201:LEU:HD13	2.02	0.41
6:G:327:LYS:HZ2	1:Z:46:ILE:CB	2.28	0.41
8:L:659:THR:HA	8:L:662:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:432:ILE:HD12	1:M:435:TRP:HB3	2.02	0.41
1:M:650:TYR:CG	1:M:702:ILE:HG23	2.55	0.41
1:N:125:ILE:CG2	5:R:1362:ASP:CB	2.97	0.41
3:P:274:VAL:HG23	3:P:283:PHE:HB2	2.03	0.41
3:P:822:ILE:HG22	3:P:824:GLN:H	1.84	0.41
4:Q:464:ALA:HB1	4:Q:552:LEU:HD21	2.01	0.41
4:Q:793:LEU:HA	4:Q:793:LEU:HD23	1.77	0.41
4:Q:1483:ILE:HG21	4:Q:1492:HIS:CE1	2.56	0.41
5:R:386:GLY:HA3	5:R:392:PRO:O	2.21	0.41
5:R:719:ILE:HG12	5:R:731:PHE:CD2	2.56	0.41
7:W:335:TRP:CH2	7:W:339:MET:HE2	2.54	0.41
7:W:365:GLN:O	7:W:369:VAL:HG23	2.19	0.41
3:D:976:THR:CB	3:D:981:ILE:CA	2.97	0.41
4:E:1483:ILE:HG21	4:E:1492:HIS:CE1	2.56	0.41
5:F:220:VAL:HA	5:F:223:LEU:HG	2.01	0.41
5:F:1048:LEU:O	5:F:1051:SER:OG	2.26	0.41
6:J:306:ASP:O	6:J:309:PRO:HD2	2.20	0.41
6:J:391:LEU:CD2	7:K:452:GLY:O	2.47	0.41
7:K:352:ILE:HG21	7:K:358:LEU:HD21	2.02	0.41
1:M:785:MET:SD	1:M:806:LEU:HD11	2.60	0.41
1:N:84:ASP:OD1	6:S:449:LEU:HA	2.20	0.41
1:N:678:ASP:N	1:N:678:ASP:OD1	2.52	0.41
3:P:182:CYS:HB2	3:P:193:TRP:CE2	2.56	0.41
3:P:491:ARG:HB2	3:P:520:THR:HB	2.01	0.41
3:P:585:ILE:HG23	3:P:586:LEU:HD12	2.02	0.41
3:P:778:THR:O	3:P:782:ARG:HB2	2.20	0.41
3:P:988:LEU:CB	3:P:1001:ILE:CB	2.98	0.41
4:Q:1075:ILE:HA	4:Q:1078:ILE:HG22	2.03	0.41
4:Q:1168:LYS:O	4:Q:1174:ASN:ND2	2.45	0.41
5:R:90:GLU:HA	5:R:93:LEU:HB2	2.03	0.41
5:R:450:LEU:HA	5:R:453:ILE:HG12	2.02	0.41
5:R:1349:PHE:N	5:R:1349:PHE:HD1	2.15	0.41
7:T:313:TYR:O	7:T:361:ARG:NH2	2.53	0.41
6:V:283:TYR:CD2	6:V:286:LYS:HE2	2.54	0.41
6:V:356:GLN:HB3	7:W:423:LYS:NZ	2.36	0.41
6:V:405:LEU:O	6:V:405:LEU:CG	2.69	0.41
1:Z:436:LEU:HA	1:Z:439:HIS:HB2	2.01	0.41
1:Z:565:GLY:O	1:Z:569:VAL:N	2.51	0.41
3:D:178:GLU:HB3	3:D:230:HIS:NE2	2.35	0.41
3:D:903:ILE:HG12	3:D:953:PHE:CD1	2.56	0.41
4:E:919:LEU:HD12	4:E:919:LEU:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:640:PHE:O	5:F:643:THR:C	2.58	0.41
5:F:1626:VAL:HA	5:F:1629:LEU:HB3	2.02	0.41
6:G:275:GLN:NE2	6:G:278:GLU:OE1	2.40	0.41
8:I:694:ASP:O	8:I:698:GLN:NE2	2.54	0.41
6:J:327:LYS:HG3	6:J:328:GLN:NE2	2.34	0.41
6:J:389:ARG:HH21	6:J:390:ILE:HD12	1.86	0.41
6:J:391:LEU:HA	6:J:394:ILE:CG1	2.51	0.41
7:K:455:LYS:HD3	7:K:455:LYS:H	1.75	0.41
7:K:503:ASN:HB2	7:K:506:ILE:CD1	2.50	0.41
7:K:525:GLU:O	7:K:529:LYS:CB	2.56	0.41
1:M:603:VAL:O	1:M:606:GLU:HG2	2.21	0.41
1:N:680:ASN:O	1:N:684:ASN:N	2.36	0.41
3:P:295:GLU:CD	3:P:316:LYS:HE3	2.40	0.41
3:P:828:ILE:O	3:P:828:ILE:HG13	2.21	0.41
3:P:1431:LYS:HE2	3:P:1435:GLU:OE1	2.20	0.41
4:Q:1066:VAL:HA	4:Q:1069:ILE:HD12	2.02	0.41
5:R:189:GLU:HA	5:R:192:ILE:HG12	2.02	0.41
5:R:633:LYS:HD2	5:R:633:LYS:HA	1.82	0.41
5:R:1158:THR:HG22	5:R:1197:PHE:CD2	2.55	0.41
5:R:1626:VAL:HA	5:R:1629:LEU:HB3	2.02	0.41
7:T:412:ILE:O	7:T:415:LEU:HB2	2.17	0.41
8:U:795:LYS:C	8:U:795:LYS:NZ	2.72	0.41
6:V:311:ASP:OD2	7:W:376:LEU:HD11	2.19	0.41
7:W:311:PHE:CD1	7:W:351:GLN:HG3	2.55	0.41
7:W:330:VAL:C	7:W:331:LEU:HD12	2.41	0.41
7:W:352:ILE:HG21	7:W:358:LEU:HD21	2.01	0.41
1:Z:822:TYR:HB3	1:Z:824:MET:SD	2.60	0.41
1:A:479:LEU:HD12	1:A:491:ALA:HB1	2.02	0.41
3:D:182:CYS:HB2	3:D:193:TRP:CE2	2.56	0.41
4:E:192:LEU:HD23	4:E:195:LEU:HD23	2.01	0.41
4:E:369:LEU:HD23	4:E:375:TYR:CD2	2.56	0.41
4:E:1066:VAL:HA	4:E:1069:ILE:HD12	2.02	0.41
5:F:386:GLY:HA3	5:F:392:PRO:O	2.21	0.41
5:F:719:ILE:HG12	5:F:731:PHE:CD2	2.56	0.41
5:F:971:SER:HB3	7:H:392:LEU:CD2	2.50	0.41
5:F:974:GLU:OE1	5:F:977:ARG:NH2	2.51	0.41
5:F:1027:GLN:CG	5:F:1027:GLN:O	2.69	0.41
8:I:816:LYS:N	8:I:816:LYS:CE	2.83	0.41
6:J:371:LYS:O	6:J:371:LYS:CE	2.68	0.41
8:L:671:LYS:O	8:L:675:GLN:NE2	2.47	0.41
8:L:794:ILE:HA	8:L:797:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:12:SER:O	1:N:12:SER:OG	2.31	0.41
1:N:199:ARG:NH2	1:N:496:TYR:O	2.45	0.41
1:N:239:ILE:HG23	1:N:258:LYS:HZ2	1.85	0.41
1:N:487:LEU:HD23	1:N:487:LEU:HA	1.90	0.41
3:P:367:ILE:HA	3:P:380:TYR:O	2.20	0.41
4:Q:904:LEU:HD23	4:Q:907:LEU:HD23	2.02	0.41
4:Q:1329:ILE:O	4:Q:1333:SER:HB3	2.21	0.41
5:R:889:ILE:O	5:R:893:HIS:N	2.51	0.41
5:R:989:SER:O	5:R:989:SER:OG	2.26	0.41
6:S:319:GLU:HA	6:S:322:THR:HG22	2.03	0.41
7:T:412:ILE:CA	7:T:415:LEU:HB2	2.42	0.41
8:U:731:GLY:C	8:U:733:ALA:N	2.71	0.41
6:V:381:GLU:HA	6:V:381:GLU:OE2	2.19	0.41
7:W:311:PHE:HD1	7:W:351:GLN:HG3	1.85	0.41
1:A:780:SER:O	1:A:784:ASN:ND2	2.53	0.41
3:D:274:VAL:HG23	3:D:283:PHE:HB2	2.02	0.41
3:D:716:VAL:HG13	3:D:767:SER:HB3	2.02	0.41
3:D:778:THR:O	3:D:782:ARG:HB2	2.20	0.41
3:D:788:HIS:ND1	3:D:946:LYS:HA	2.36	0.41
3:D:1431:LYS:HE2	3:D:1435:GLU:OE1	2.20	0.41
5:F:348:LEU:HD22	5:F:483:LEU:HD22	2.03	0.41
5:F:460:SER:HB2	5:F:475:LYS:HB3	2.02	0.41
5:F:920:ILE:CB	5:F:924:ALA:O	2.69	0.41
8:I:822:LYS:HE3	8:I:822:LYS:CA	2.44	0.41
6:J:381:GLU:HA	6:J:381:GLU:OE2	2.19	0.41
7:K:305:LYS:O	7:K:307:LYS:HE2	2.20	0.41
7:K:330:VAL:C	7:K:331:LEU:HD12	2.41	0.41
7:K:506:ILE:HG13	7:K:507:ASN:H	1.86	0.41
1:M:478:TYR:O	1:M:482:LEU:HG	2.20	0.41
1:M:512:SER:O	1:M:514:LYS:NZ	2.50	0.41
1:N:571:LEU:HA	1:N:574:GLU:HG3	2.03	0.41
1:N:824:MET:HB2	1:N:825:PRO:CD	2.30	0.41
3:P:491:ARG:CA	3:P:520:THR:HB	2.51	0.41
3:P:680:SER:OG	3:P:772:GLY:HA2	2.20	0.41
3:P:713:ILE:HD12	3:P:769:ARG:CD	2.48	0.41
3:P:788:HIS:ND1	3:P:946:LYS:HA	2.35	0.41
3:P:869:LEU:HD23	3:P:869:LEU:HA	1.92	0.41
4:Q:222:GLU:O	4:Q:226:ASN:HB2	2.20	0.41
4:Q:980:LYS:O	4:Q:980:LYS:CG	2.69	0.41
4:Q:1380:ASP:C	4:Q:1382:THR:H	2.24	0.41
5:R:662:PRO:HG3	5:R:715:ASN:ND2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:920:ILE:CB	5:R:924:ALA:O	2.69	0.41
5:R:1034:LEU:HD22	5:R:1092:THR:CB	2.28	0.41
1:Z:206:ASN:OD1	1:Z:206:ASN:N	2.53	0.41
1:Z:571:LEU:HA	1:Z:574:GLU:HG3	2.03	0.41
1:A:232:PHE:CZ	1:A:237:GLU:HG3	2.56	0.41
1:A:586:PHE:CD2	1:A:642:LEU:HD11	2.56	0.41
3:D:617:ALA:HA	3:D:630:THR:CG2	2.47	0.41
3:D:873:SER:HB3	3:D:877:VAL:HB	2.02	0.41
4:E:927:LYS:O	4:E:931:PHE:N	2.37	0.41
5:F:144:ILE:HD13	5:F:197:LEU:HD23	2.01	0.41
5:F:164:LYS:HA	5:F:167:ILE:HG12	2.02	0.41
5:F:589:ASP:OD1	5:F:589:ASP:N	2.52	0.41
6:G:295:LYS:HB3	6:J:363:LYS:NZ	2.33	0.41
7:H:313:TYR:O	7:H:361:ARG:NH2	2.53	0.41
8:I:795:LYS:NZ	8:I:799:SER:HB3	2.35	0.41
6:J:381:GLU:OE2	6:J:381:GLU:CA	2.69	0.41
6:J:389:ARG:NH1	6:J:389:ARG:CA	2.84	0.41
7:K:315:LYS:HG3	7:K:347:THR:HG22	2.02	0.41
7:K:483:VAL:N	7:K:493:SER:C	2.70	0.41
8:L:676:ILE:HD13	8:L:679:LEU:HD22	2.01	0.41
1:M:128:LEU:CB	4:Q:1260:TYR:HE2	2.26	0.41
1:N:367:PHE:O	1:N:370:TYR:HB2	2.20	0.41
1:N:807:LYS:CB	1:N:837:VAL:HA	2.50	0.41
3:P:716:VAL:HG13	3:P:767:SER:HB3	2.02	0.41
4:Q:176:LEU:HD23	4:Q:176:LEU:HA	1.90	0.41
4:Q:268:THR:O	4:Q:272:ILE:HG13	2.20	0.41
4:Q:851:SER:O	4:Q:851:SER:OG	2.33	0.41
4:Q:1305:ASN:OD1	4:Q:1305:ASN:N	2.51	0.41
5:R:866:GLN:OE1	5:R:940:ASN:HB2	2.20	0.41
5:R:914:ASP:CG	5:R:917:PHE:CB	2.89	0.41
5:R:1370:LEU:C	5:R:1371:ILE:CG1	2.89	0.41
8:U:792:GLN:HB2	8:U:795:LYS:CG	2.48	0.41
6:V:382:LYS:HE2	6:V:382:LYS:CA	2.51	0.41
1:Z:49:LEU:C	1:Z:49:LEU:HD13	2.40	0.41
1:A:19:ASN:HA	1:A:22:LEU:CG	2.51	0.41
1:A:451:ASP:OD1	1:A:455:GLU:HB2	2.21	0.41
1:A:533:ARG:HE	1:A:534:PHE:N	2.19	0.41
3:D:422:LYS:HE2	3:D:524:THR:OG1	2.21	0.41
3:D:585:ILE:HG23	3:D:586:LEU:HD12	2.03	0.41
3:D:713:ILE:CD1	3:D:769:ARG:HD3	2.48	0.41
4:E:904:LEU:HD23	4:E:907:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:917:PRO:O	4:E:964:GLN:NE2	2.52	0.41
4:E:1262:LEU:HD23	4:E:1262:LEU:HA	1.91	0.41
4:E:1319:LEU:CD2	4:E:1398:VAL:HG22	2.46	0.41
5:F:37:LEU:HD22	5:F:146:SER:HB2	2.02	0.41
5:F:68:GLN:HA	5:F:71:ILE:HD13	2.03	0.41
5:F:321:GLN:O	5:F:325:PHE:HB3	2.21	0.41
5:F:486:TYR:HD1	5:F:532:SER:HB3	1.86	0.41
5:F:662:PRO:HG3	5:F:715:ASN:ND2	2.36	0.41
5:F:885:GLU:O	5:F:885:GLU:CG	2.68	0.41
5:F:1139:ILE:HG12	5:F:1291:SER:HG	1.86	0.41
5:F:1431:ARG:HD2	5:F:1474:PHE:N	2.36	0.41
5:F:1550:LEU:HD12	5:F:1604:ILE:HG21	2.01	0.41
6:J:309:PRO:HA	6:J:312:VAL:CB	2.50	0.41
6:J:389:ARG:HG2	6:J:389:ARG:NH1	2.29	0.41
6:J:405:LEU:CD1	7:K:469:ARG:CG	2.91	0.41
6:J:406:PHE:O	6:J:409:PRO:HD2	2.21	0.41
7:K:315:LYS:HD2	7:K:347:THR:HG22	2.03	0.41
7:K:427:LEU:N	7:K:427:LEU:HD22	2.36	0.41
7:K:503:ASN:HB2	7:K:506:ILE:HD13	2.03	0.41
7:K:509:ILE:HA	7:K:512:ILE:HB	2.01	0.41
8:L:653:SER:O	8:L:657:GLN:HG2	2.21	0.41
1:N:254:LEU:HD12	1:N:254:LEU:HA	1.87	0.41
1:N:453:VAL:HG21	4:Q:1356:LEU:CB	2.49	0.41
1:N:565:GLY:O	1:N:569:VAL:N	2.51	0.41
1:N:822:TYR:HB3	1:N:824:MET:SD	2.60	0.41
4:Q:867:ASP:OD1	4:Q:867:ASP:N	2.52	0.41
5:R:160:GLN:HA	5:R:163:ASN:ND2	2.36	0.41
5:R:212:PHE:O	5:R:215:SER:OG	2.36	0.41
5:R:777:GLN:NE2	5:R:839:SER:OG	2.50	0.41
5:R:1027:GLN:CG	5:R:1027:GLN:O	2.69	0.41
5:R:1110:MET:HE3	5:R:1157:TRP:CZ2	2.53	0.41
5:R:1298:LEU:HD23	5:R:1298:LEU:HA	1.79	0.41
5:R:1300:LEU:HD23	5:R:1301:SER:N	2.36	0.41
5:R:1305:SER:O	5:R:1309:LEU:N	2.33	0.41
5:R:1508:ILE:HG22	5:R:1511:LEU:HD23	2.02	0.41
8:U:795:LYS:CA	8:U:795:LYS:HZ3	2.34	0.41
8:U:795:LYS:HZ3	8:U:795:LYS:CB	2.34	0.41
6:V:368:ASP:HA	6:V:371:LYS:CB	2.51	0.41
6:V:381:GLU:OE2	6:V:381:GLU:CA	2.69	0.41
6:V:389:ARG:O	6:V:389:ARG:CZ	2.69	0.41
7:W:433:GLU:HB2	8:X:741:ARG:HE	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:454:GLY:O	7:W:456:THR:N	2.52	0.41
7:W:508:LYS:NZ	1:Z:12:SER:OG	2.29	0.41
7:W:526:VAL:HG13	7:W:529:LYS:NZ	2.36	0.41
1:Z:81:GLU:H	1:Z:81:GLU:HG3	1.54	0.41
1:Z:239:ILE:HG23	1:Z:258:LYS:HZ2	1.85	0.41
1:Z:551:ARG:NH2	1:Z:606:GLU:OE2	2.46	0.41
1:A:603:VAL:O	1:A:606:GLU:HG2	2.21	0.41
1:A:650:TYR:CG	1:A:702:ILE:HG23	2.55	0.41
2:C:1388:HIS:O	4:E:1331:LEU:HD13	2.19	0.41
3:D:430:GLU:OE1	3:D:528:PRO:HD3	2.18	0.41
5:F:150:PHE:HD1	5:F:150:PHE:HA	1.75	0.41
5:F:651:GLY:HA3	5:F:705:ASP:HA	2.03	0.41
5:F:863:GLU:HA	5:F:866:GLN:HE21	1.86	0.41
5:F:1158:THR:HG22	5:F:1197:PHE:CD2	2.55	0.41
8:I:795:LYS:NZ	8:I:795:LYS:CB	2.84	0.41
1:M:538:LEU:HD13	1:M:556:TYR:O	2.21	0.41
1:M:586:PHE:CD2	1:M:642:LEU:HD11	2.56	0.41
1:M:776:ILE:HD11	1:M:828:THR:HG23	2.03	0.41
1:N:305:ILE:HG23	1:N:339:TYR:HD2	1.86	0.41
3:P:387:LEU:HA	3:P:391:MET:HE1	2.03	0.41
4:Q:366:SER:HB3	4:Q:379:ILE:HD13	2.03	0.41
4:Q:370:SER:O	4:Q:372:ASP:N	2.48	0.41
4:Q:672:VAL:HG12	4:Q:676:LEU:HD12	2.02	0.41
4:Q:927:LYS:O	4:Q:931:PHE:N	2.37	0.41
5:R:651:GLY:HA3	5:R:705:ASP:HA	2.03	0.41
5:R:1167:LYS:HE3	5:R:1167:LYS:CA	2.27	0.41
5:R:1493:LYS:HA	5:R:1493:LYS:HD2	1.66	0.41
7:W:305:LYS:O	7:W:307:LYS:HE2	2.21	0.41
7:W:373:ARG:HH21	7:W:377:ASN:ND2	2.19	0.41
3:D:135:PHE:HD1	3:D:596:ALA:HB3	1.86	0.40
3:D:421:VAL:HG22	3:D:491:ARG:N	2.35	0.40
3:D:673:TYR:O	3:D:677:GLU:HB2	2.22	0.40
3:D:1134:SER:OG	1:N:206:ASN:C	2.60	0.40
4:E:79:LEU:HD11	4:E:99:VAL:HG22	2.03	0.40
4:E:980:LYS:O	4:E:980:LYS:CG	2.69	0.40
5:F:25:PHE:HB3	5:F:26:LYS:NZ	2.36	0.40
5:F:918:PHE:HA	5:F:922:LEU:HD11	2.03	0.40
5:F:1442:TRP:NE1	5:F:1484:ARG:HB3	2.36	0.40
5:F:1543:LEU:C	5:F:1543:LEU:CD1	2.88	0.40
6:G:319:GLU:HA	6:G:322:THR:HG22	2.03	0.40
6:G:470:LEU:CB	7:H:538:LYS:HZ3	2.17	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:815:GLU:HB3	8:I:816:LYS:CE	2.51	0.40
7:K:408:ILE:O	7:K:412:ILE:HG13	2.22	0.40
8:L:703:GLN:OE1	8:L:704:GLN:N	2.54	0.40
8:L:800:HIS:O	8:L:804:LEU:CB	2.65	0.40
1:M:775:LEU:HB3	1:M:832:LEU:HG	2.04	0.40
1:N:199:ARG:HH12	1:N:500:GLU:H	1.69	0.40
1:N:493:ASP:HA	1:N:496:TYR:CD2	2.56	0.40
1:N:817:ALA:C	1:N:821:GLN:H	2.13	0.40
2:O:1389:GLY:HA2	4:Q:1331:LEU:HD11	2.02	0.40
3:P:157:PRO:HD2	3:P:160:ILE:HD12	2.03	0.40
3:P:1136:ASP:HB2	1:Z:203:ASN:O	1.96	0.40
5:R:68:GLN:HA	5:R:71:ILE:HD13	2.03	0.40
5:R:864:LEU:HD12	5:R:864:LEU:HA	1.81	0.40
5:R:971:SER:HB3	7:T:392:LEU:CD2	2.50	0.40
5:R:1004:ASP:HA	5:R:1007:THR:HB	2.03	0.40
6:S:350:PHE:HE2	7:T:418:GLN:HE22	1.63	0.40
7:T:527:LEU:HD23	7:T:527:LEU:O	2.21	0.40
6:V:345:LEU:O	6:V:349:THR:HG23	2.21	0.40
7:W:446:ARG:O	7:W:446:ARG:CD	2.69	0.40
8:X:653:SER:O	8:X:657:GLN:HG2	2.21	0.40
1:Z:90:LEU:HD23	1:Z:90:LEU:HA	1.69	0.40
1:A:776:ILE:HD11	1:A:828:THR:HG23	2.03	0.40
3:D:828:ILE:HG13	3:D:828:ILE:O	2.20	0.40
4:E:22:MET:HE1	4:E:122:ILE:HG21	2.03	0.40
5:F:245:ARG:HH22	5:F:288:TRP:N	2.18	0.40
5:F:633:LYS:HA	5:F:633:LYS:HD2	1.82	0.40
5:F:914:ASP:CG	5:F:917:PHE:CB	2.90	0.40
5:F:964:LYS:O	5:F:964:LYS:CG	2.69	0.40
5:F:1309:LEU:O	5:F:1309:LEU:CD2	2.68	0.40
5:F:1359:PHE:O	5:F:1359:PHE:CD1	2.74	0.40
8:I:818:ILE:HD12	8:I:818:ILE:HA	1.80	0.40
6:J:319:GLU:CA	6:J:322:THR:HG22	2.42	0.40
6:J:356:GLN:HB3	7:K:423:LYS:NZ	2.36	0.40
6:J:371:LYS:NZ	6:J:371:LYS:C	2.70	0.40
1:M:607:ARG:O	1:M:611:LEU:HG	2.21	0.40
1:M:687:LEU:HA	1:M:690:ARG:HH11	1.87	0.40
1:N:444:LYS:HA	1:N:444:LYS:HD3	1.90	0.40
3:P:422:LYS:HE2	3:P:524:THR:OG1	2.21	0.40
4:Q:22:MET:HE3	4:Q:122:ILE:HD13	2.02	0.40
5:R:405:ARG:HH12	5:R:407:ASN:HB3	1.86	0.40
5:R:841:PHE:HZ	5:R:922:LEU:HB2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:968:ILE:HA	7:T:392:LEU:HD11	2.02	0.40
6:S:450:PHE:O	6:S:454:ALA:HB2	2.21	0.40
7:T:293:LEU:HD23	7:T:293:LEU:HA	1.95	0.40
8:U:815:GLU:HB3	8:U:816:LYS:HE3	2.02	0.40
8:U:816:LYS:N	8:U:816:LYS:CE	2.84	0.40
6:V:389:ARG:NH1	6:V:389:ARG:HA	2.35	0.40
1:A:32:LEU:CD2	1:A:32:LEU:O	2.70	0.40
1:A:775:LEU:CD1	1:A:832:LEU:CD1	2.95	0.40
2:C:899:ALA:CB	2:C:941:ASN:HD22	2.34	0.40
3:D:328:LEU:CD1	3:D:334:VAL:HG22	2.50	0.40
3:D:371:LEU:HD21	3:D:420:ILE:HG22	2.04	0.40
4:E:1418:LEU:HD13	4:E:1460:LEU:HG	2.04	0.40
5:F:90:GLU:HA	5:F:93:LEU:HB2	2.03	0.40
5:F:463:SER:O	5:F:463:SER:OG	2.31	0.40
5:F:1060:LEU:HD12	5:F:1060:LEU:HA	1.68	0.40
5:F:1300:LEU:HD23	5:F:1301:SER:N	2.36	0.40
5:F:1360:LEU:N	5:F:1360:LEU:HD12	2.37	0.40
5:F:1364:TYR:HB2	5:F:1374:LYS:CB	2.52	0.40
7:H:394:THR:O	7:H:398:ILE:HB	2.21	0.40
8:L:658:TYR:HE1	8:L:665:TRP:HZ3	1.69	0.40
1:M:232:PHE:CZ	1:M:237:GLU:HG3	2.56	0.40
1:M:495:THR:HG22	1:M:503:ALA:HB2	2.03	0.40
1:M:772:PRO:HA	1:M:828:THR:HG21	1.87	0.40
3:P:903:ILE:HG12	3:P:953:PHE:CD1	2.56	0.40
4:Q:948:LEU:HD12	4:Q:948:LEU:HA	1.91	0.40
5:R:321:GLN:O	5:R:325:PHE:HB3	2.21	0.40
5:R:765:ASP:OD1	5:R:765:ASP:N	2.51	0.40
5:R:844:VAL:HG23	5:R:865:LEU:HD12	2.03	0.40
5:R:1026:PHE:CE1	5:R:1049:LEU:HD11	2.57	0.40
8:U:795:LYS:NZ	8:U:795:LYS:CB	2.84	0.40
6:V:371:LYS:O	6:V:371:LYS:CE	2.69	0.40
6:V:375:LYS:HZ2	6:V:375:LYS:HG2	1.69	0.40
6:V:420:ASP:HB2	6:V:436:LEU:HD22	2.04	0.40
7:W:309:ARG:HE	7:W:353:TYR:HE2	1.69	0.40
1:Z:493:ASP:HA	1:Z:496:TYR:CD2	2.56	0.40
1:A:16:LYS:HD2	1:A:16:LYS:HA	1.67	0.40
1:A:679:ASP:CG	1:A:684:ASN:HD22	2.24	0.40
3:D:391:MET:SD	3:D:457:ILE:HD11	2.62	0.40
3:D:574:HIS:HD1	3:D:576:LEU:HD12	1.87	0.40
4:E:1451:CYS:HA	4:E:1457:ALA:HB2	2.04	0.40
4:E:1529:ILE:HG21	4:E:1589:LEU:HD21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:210:LYS:HB3	5:F:210:LYS:HE2	1.78	0.40
5:F:296:ARG:H	5:F:296:ARG:HG3	1.71	0.40
5:F:607:ILE:HD12	5:F:607:ILE:HA	1.99	0.40
5:F:825:ILE:O	5:F:825:ILE:CG2	2.69	0.40
5:F:1193:ARG:HD2	5:F:1195:PHE:CE1	2.56	0.40
6:J:334:SER:C	6:J:336:PHE:H	2.15	0.40
6:J:420:ASP:HB2	6:J:436:LEU:HD22	2.04	0.40
7:K:341:LYS:HE2	7:K:341:LYS:HB2	1.89	0.40
8:L:679:LEU:O	8:L:682:ASP:HB2	2.20	0.40
1:M:24:GLU:HG3	1:Z:26:LEU:HD12	1.91	0.40
1:M:533:ARG:HE	1:M:534:PHE:N	2.19	0.40
1:M:696:TYR:CD1	1:M:702:ILE:HG21	2.57	0.40
1:N:551:ARG:NH2	1:N:606:GLU:OE2	2.46	0.40
1:N:658:ASN:O	1:N:662:SER:CB	2.70	0.40
2:O:899:ALA:CB	2:O:941:ASN:HD22	2.35	0.40
2:O:1258:GLN:CG	2:O:1299:LYS:HZ1	2.22	0.40
3:P:311:LYS:HA	3:P:311:LYS:HD2	1.94	0.40
3:P:846:ILE:HG13	3:P:907:LEU:CD1	2.51	0.40
3:P:924:ASN:O	3:P:925:GLN:HB2	2.21	0.40
4:Q:369:LEU:HD23	4:Q:375:TYR:CD2	2.56	0.40
5:R:245:ARG:HH22	5:R:288:TRP:N	2.18	0.40
5:R:825:ILE:O	5:R:825:ILE:CG2	2.69	0.40
5:R:885:GLU:O	5:R:885:GLU:CG	2.68	0.40
5:R:964:LYS:CG	5:R:964:LYS:O	2.68	0.40
5:R:1083:ILE:O	5:R:1087:CYS:HB3	2.22	0.40
5:R:1144:VAL:HG11	5:R:1291:SER:OG	2.20	0.40
5:R:1310:VAL:O	5:R:1310:VAL:CG1	2.67	0.40
5:R:1458:LEU:HD23	5:R:1458:LEU:HA	1.88	0.40
6:S:295:LYS:C	6:V:363:LYS:HZ1	2.24	0.40
7:T:394:THR:O	7:T:398:ILE:HB	2.21	0.40
7:W:339:MET:HG3	7:W:339:MET:O	2.22	0.40
7:W:427:LEU:N	7:W:427:LEU:HD22	2.36	0.40
7:W:429:LEU:C	7:W:429:LEU:CD1	2.85	0.40
7:W:515:ASN:ND2	1:Z:20:LYS:HZ1	2.19	0.40
8:X:800:HIS:O	8:X:804:LEU:CB	2.65	0.40
1:A:48:GLU:CB	7:K:514:THR:HG21	2.52	0.40
1:A:495:THR:HG22	1:A:503:ALA:HB2	2.03	0.40
1:A:614:ARG:HB2	1:A:618:GLU:OE1	2.22	0.40
1:A:687:LEU:HA	1:A:690:ARG:HH11	1.86	0.40
1:A:696:TYR:CD1	1:A:702:ILE:HG21	2.57	0.40
3:D:157:PRO:HD2	3:D:160:ILE:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:939:LEU:HB3	4:E:997:VAL:HG11	2.04	0.40
4:E:1075:ILE:HA	4:E:1078:ILE:HG22	2.03	0.40
4:E:1133:LYS:HD2	4:E:1133:LYS:HA	1.90	0.40
5:F:1157:TRP:CD1	5:F:1161:LEU:HD13	2.56	0.40
5:F:1177:VAL:O	5:F:1180:TYR:CB	2.70	0.40
5:F:1660:ASN:O	5:F:1664:ASN:ND2	2.54	0.40
6:J:405:LEU:O	6:J:405:LEU:CG	2.69	0.40
6:J:411:ASN:OD1	6:J:411:ASN:N	2.41	0.40
7:K:433:GLU:HB2	8:L:741:ARG:HE	1.85	0.40
7:K:446:ARG:O	7:K:446:ARG:CD	2.69	0.40
1:M:451:ASP:OD1	1:M:455:GLU:HB2	2.21	0.40
1:N:305:ILE:HD12	1:N:339:TYR:HB3	2.02	0.40
3:P:586:LEU:HD11	3:P:593:VAL:H	1.86	0.40
3:P:682:ALA:O	3:P:699:ALA:HB1	2.21	0.40
3:P:831:LYS:HB2	3:P:929:PHE:CE2	2.56	0.40
5:R:914:ASP:OD1	5:R:917:PHE:CB	2.66	0.40
5:R:1511:LEU:HD12	5:R:1514:GLU:HB2	2.03	0.40
5:R:1660:ASN:O	5:R:1664:ASN:ND2	2.54	0.40
7:T:426:GLY:CA	8:U:736:ASN:HB2	2.51	0.40
7:W:315:LYS:HD2	7:W:347:THR:HG22	2.03	0.40
7:W:518:ARG:CB	7:W:518:ARG:NH1	2.72	0.40
7:W:529:LYS:HD2	7:W:530:ASP:N	2.36	0.40
8:X:640:LEU:HA	8:X:643:LYS:CB	2.51	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	722/839 (86%)	702 (97%)	18 (2%)	2 (0%)	41 74
1	M	719/839 (86%)	699 (97%)	18 (2%)	2 (0%)	41 74

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	N	736/839 (88%)	680 (92%)	39 (5%)	17 (2%)	6	38
1	Z	736/839 (88%)	681 (92%)	38 (5%)	17 (2%)	6	38
2	C	1323/1391 (95%)	1269 (96%)	41 (3%)	13 (1%)	15	51
2	O	1323/1391 (95%)	1270 (96%)	40 (3%)	13 (1%)	15	51
3	D	1396/1502 (93%)	1275 (91%)	113 (8%)	8 (1%)	25	61
3	P	1396/1502 (93%)	1275 (91%)	113 (8%)	8 (1%)	25	61
4	E	1538/1655 (93%)	1374 (89%)	150 (10%)	14 (1%)	17	53
4	Q	1538/1655 (93%)	1376 (90%)	149 (10%)	13 (1%)	19	56
5	F	1616/1683 (96%)	1200 (74%)	321 (20%)	95 (6%)	1	20
5	R	1616/1683 (96%)	1196 (74%)	324 (20%)	96 (6%)	1	20
6	G	198/472 (42%)	188 (95%)	9 (4%)	1 (0%)	29	65
6	J	191/472 (40%)	172 (90%)	15 (8%)	4 (2%)	7	40
6	S	198/472 (42%)	188 (95%)	9 (4%)	1 (0%)	29	65
6	V	191/472 (40%)	171 (90%)	16 (8%)	4 (2%)	7	40
7	H	242/541 (45%)	202 (84%)	36 (15%)	4 (2%)	9	43
7	K	252/541 (47%)	208 (82%)	33 (13%)	11 (4%)	2	25
7	T	242/541 (45%)	202 (84%)	36 (15%)	4 (2%)	9	43
7	W	252/541 (47%)	209 (83%)	32 (13%)	11 (4%)	2	25
8	I	185/823 (22%)	158 (85%)	16 (9%)	11 (6%)	1	20
8	L	185/823 (22%)	164 (89%)	15 (8%)	6 (3%)	4	32
8	U	185/823 (22%)	158 (85%)	16 (9%)	11 (6%)	1	20
8	X	185/823 (22%)	164 (89%)	15 (8%)	6 (3%)	4	32
All	All	17165/23162 (74%)	15181 (88%)	1612 (9%)	372 (2%)	10	39

All (372) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	44	VAL
2	C	319	PRO
2	C	468	PHE
2	C	476	ASN
2	C	694	PHE
2	C	1255	SER
3	D	528	PRO

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Mol	Chain	Res	Type
3	D	665	ASN
3	D	1000	ASP
3	D	1128	GLN
3	D	1134	SER
4	E	923	LEU
4	E	986	SER
4	E	989	ASP
4	E	990	LYS
5	F	353	PRO
5	F	357	PRO
5	F	380	ALA
5	F	391	ASN
5	F	394	TYR
5	F	395	PRO
5	F	410	PRO
5	F	823	PRO
5	F	825	ILE
5	F	885	GLU
5	F	888	PRO
5	F	919	ASN
5	F	921	PRO
5	F	934	ASP
5	F	935	GLN
5	F	1031	VAL
5	F	1036	PRO
5	F	1090	PRO
5	F	1188	THR
5	F	1195	PHE
5	F	1295	ALA
5	F	1314	VAL
5	F	1371	ILE
5	F	1381	LEU
5	F	1387	THR
5	F	1392	ILE
5	F	1395	PRO
6	G	425	GLU
7	H	506	ILE
7	H	507	ASN
8	I	732	ALA
8	I	740	LYS
8	I	793	LEU
8	I	799	SER

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Mol	Chain	Res	Type
6	J	338	SER
6	J	339	LEU
6	J	405	LEU
6	J	438	ALA
7	K	321	ALA
7	K	449	ASP
7	K	450	PRO
7	K	457	ASN
8	L	780	THR
8	L	781	ASN
1	M	44	VAL
1	N	44	VAL
1	N	92	THR
1	N	751	LEU
1	N	752	SER
1	N	765	ASP
1	N	767	ILE
1	N	824	MET
2	O	319	PRO
2	O	468	PHE
2	O	476	ASN
2	O	694	PHE
2	O	1255	SER
3	P	528	PRO
3	P	665	ASN
3	P	1000	ASP
3	P	1128	GLN
3	P	1134	SER
4	Q	259	SER
4	Q	923	LEU
4	Q	986	SER
4	Q	989	ASP
4	Q	990	LYS
5	R	353	PRO
5	R	357	PRO
5	R	380	ALA
5	R	391	ASN
5	R	394	TYR
5	R	395	PRO
5	R	410	PRO
5	R	823	PRO
5	R	825	ILE

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Mol	Chain	Res	Type
5	R	885	GLU
5	R	888	PRO
5	R	919	ASN
5	R	921	PRO
5	R	922	LEU
5	R	934	ASP
5	R	935	GLN
5	R	1031	VAL
5	R	1036	PRO
5	R	1090	PRO
5	R	1188	THR
5	R	1195	PHE
5	R	1295	ALA
5	R	1314	VAL
5	R	1371	ILE
5	R	1381	LEU
5	R	1387	THR
5	R	1392	ILE
5	R	1395	PRO
6	S	425	GLU
7	T	506	ILE
7	T	507	ASN
8	U	732	ALA
8	U	740	LYS
8	U	793	LEU
8	U	799	SER
6	V	338	SER
6	V	339	LEU
6	V	438	ALA
7	W	321	ALA
7	W	449	ASP
7	W	450	PRO
7	W	457	ASN
7	W	505	ARG
8	X	780	THR
8	X	781	ASN
1	Z	44	VAL
1	Z	92	THR
1	Z	751	LEU
1	Z	752	SER
1	Z	765	ASP
1	Z	767	ILE

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Mol	Chain	Res	Type
1	Z	824	MET
2	C	526	ASN
4	E	262	SER
4	E	263	SER
4	E	701	SER
4	E	1248	THR
5	F	361	LEU
5	F	396	GLY
5	F	412	ASN
5	F	922	LEU
5	F	926	LEU
5	F	936	ILE
5	F	958	SER
5	F	964	LYS
5	F	974	GLU
5	F	1035	GLY
5	F	1039	ALA
5	F	1041	PHE
5	F	1062	SER
5	F	1124	GLY
5	F	1134	LYS
5	F	1135	CYS
5	F	1189	MET
5	F	1204	GLY
5	F	1210	LYS
5	F	1374	LYS
5	F	1389	ILE
5	F	1421	VAL
7	H	319	THR
7	H	424	ASN
8	I	728	THR
7	K	405	ASN
7	K	501	GLU
7	K	504	ASP
7	K	505	ARG
8	L	779	THR
1	N	821	GLN
2	O	526	ASN
4	Q	701	SER
4	Q	1248	THR
5	R	361	LEU
5	R	396	GLY

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Mol	Chain	Res	Type
5	R	412	ASN
5	R	926	LEU
5	R	936	ILE
5	R	958	SER
5	R	964	LYS
5	R	974	GLU
5	R	1035	GLY
5	R	1039	ALA
5	R	1041	PHE
5	R	1059	SER
5	R	1062	SER
5	R	1124	GLY
5	R	1134	LYS
5	R	1135	CYS
5	R	1189	MET
5	R	1204	GLY
5	R	1210	LYS
5	R	1374	LYS
5	R	1389	ILE
5	R	1421	VAL
7	T	319	THR
7	T	424	ASN
8	U	728	THR
6	V	403	THR
7	W	405	ASN
7	W	501	GLU
7	W	504	ASP
8	X	779	THR
1	Z	821	GLN
1	A	134	LYS
2	C	75	ASP
2	C	334	ASP
2	C	479	ASP
4	E	980	LYS
5	F	335	ASP
5	F	350	ARG
5	F	358	LYS
5	F	367	PHE
5	F	381	THR
5	F	406	LEU
5	F	591	ASP
5	F	902	LYS

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Mol	Chain	Res	Type
5	F	1030	ASN
5	F	1038	LEU
5	F	1059	SER
5	F	1064	THR
5	F	1084	LEU
5	F	1123	ASN
5	F	1193	ARG
5	F	1200	PRO
5	F	1269	GLU
5	F	1370	LEU
5	F	1396	LEU
5	F	1675	THR
8	I	738	ASP
8	I	789	GLU
8	I	790	ASN
7	K	392	LEU
8	L	783	ASP
1	M	134	LYS
1	N	134	LYS
1	N	825	PRO
2	O	75	ASP
2	O	334	ASP
2	O	479	ASP
4	Q	980	LYS
5	R	335	ASP
5	R	350	ARG
5	R	358	LYS
5	R	367	PHE
5	R	381	THR
5	R	406	LEU
5	R	591	ASP
5	R	902	LYS
5	R	1030	ASN
5	R	1038	LEU
5	R	1064	THR
5	R	1084	LEU
5	R	1123	ASN
5	R	1193	ARG
5	R	1200	PRO
5	R	1269	GLU
5	R	1370	LEU
5	R	1396	LEU

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Mol	Chain	Res	Type
5	R	1557	PRO
5	R	1675	THR
8	U	738	ASP
8	U	789	GLU
8	U	790	ASN
7	W	392	LEU
8	X	783	ASP
1	Z	134	LYS
1	Z	825	PRO
2	C	315	THR
2	C	1252	ASP
3	D	1441	ASN
5	F	363	ASP
5	F	444	THR
5	F	816	PHE
5	F	930	VAL
5	F	951	ARG
5	F	1067	ASN
5	F	1187	ASN
5	F	1236	ILE
5	F	1361	PHE
5	F	1372	THR
5	F	1676	LEU
7	K	455	LYS
1	N	91	GLN
1	N	250	ASN
1	N	648	GLU
1	N	762	ASN
1	N	771	ILE
1	N	777	ILE
2	O	315	THR
2	O	1252	ASP
3	P	1441	ASN
5	R	363	ASP
5	R	444	THR
5	R	816	PHE
5	R	930	VAL
5	R	951	ARG
5	R	1067	ASN
5	R	1129	ASN
5	R	1187	ASN
5	R	1236	ILE

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Mol	Chain	Res	Type
5	R	1361	PHE
5	R	1372	THR
5	R	1676	LEU
7	W	455	LYS
1	Z	91	GLN
1	Z	648	GLU
1	Z	762	ASN
1	Z	771	ILE
1	Z	777	ILE
3	D	998	ALA
4	E	702	THR
4	E	977	ALA
4	E	1027	TRP
5	F	713	PHE
5	F	1122	TRP
5	F	1129	ASN
5	F	1194	LEU
5	F	1420	GLN
1	N	828	THR
3	P	998	ALA
4	Q	702	THR
4	Q	977	ALA
4	Q	1027	TRP
5	R	713	PHE
5	R	1122	TRP
5	R	1194	LEU
5	R	1420	GLN
1	Z	245	ALA
1	Z	828	THR
2	C	684	GLY
5	F	352	ILE
5	F	923	VAL
5	F	1296	LEU
5	F	1307	VAL
5	F	1365	ASN
5	F	1390	GLN
8	I	798	ASN
8	L	704	GLN
5	R	352	ILE
5	R	923	VAL
5	R	1296	LEU
5	R	1307	VAL

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Mol	Chain	Res	Type
5	R	1365	ASN
5	R	1390	GLN
8	U	798	ASN
8	X	704	GLN
4	E	1489	PRO
8	L	794	ILE
2	O	684	GLY
4	Q	1489	PRO
8	X	794	ILE
8	I	782	ILE
7	K	427	LEU
8	U	782	ILE
7	W	427	LEU
3	D	993	GLY
4	E	974	GLY
5	F	1032	ILE
5	F	1063	ILE
3	P	993	GLY
4	Q	974	GLY
5	R	1032	ILE
5	R	1063	ILE
5	F	422	VAL
8	I	791	ILE
5	R	422	VAL
8	U	791	ILE
2	C	469	ILE
5	F	1266	VAL
2	O	469	ILE
5	R	1266	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	608/762 (80%)	583 (96%)	25 (4%)	30 59
1	M	605/762 (79%)	578 (96%)	27 (4%)	27 57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	N	609/762 (80%)	554 (91%)	55 (9%)	9	37
1	Z	609/762 (80%)	554 (91%)	55 (9%)	9	37
2	C	1177/1250 (94%)	1152 (98%)	25 (2%)	53	74
2	O	1177/1250 (94%)	1152 (98%)	25 (2%)	53	74
3	D	1212/1353 (90%)	1199 (99%)	13 (1%)	73	85
3	P	1210/1353 (89%)	1197 (99%)	13 (1%)	73	85
4	E	1421/1557 (91%)	1397 (98%)	24 (2%)	60	79
4	Q	1421/1557 (91%)	1397 (98%)	24 (2%)	60	79
5	F	1261/1538 (82%)	1165 (92%)	96 (8%)	13	43
5	R	1261/1538 (82%)	1163 (92%)	98 (8%)	12	43
6	G	167/377 (44%)	165 (99%)	2 (1%)	71	84
6	J	162/377 (43%)	145 (90%)	17 (10%)	7	31
6	S	166/377 (44%)	164 (99%)	2 (1%)	71	84
6	V	162/377 (43%)	148 (91%)	14 (9%)	10	40
7	H	171/439 (39%)	166 (97%)	5 (3%)	42	66
7	K	153/439 (35%)	134 (88%)	19 (12%)	4	24
7	T	171/439 (39%)	166 (97%)	5 (3%)	42	66
7	W	152/439 (35%)	128 (84%)	24 (16%)	2	17
8	I	152/674 (23%)	135 (89%)	17 (11%)	6	29
8	L	138/674 (20%)	137 (99%)	1 (1%)	84	91
8	U	152/674 (23%)	135 (89%)	17 (11%)	6	29
8	X	138/674 (20%)	137 (99%)	1 (1%)	84	91
All	All	14455/20404 (71%)	13851 (96%)	604 (4%)	33	58

All (604) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	19	ASN
1	A	21	LYS
1	A	24	GLU
1	A	29	SER
1	A	45	SER
1	A	53	VAL
1	A	54	PHE

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Mol	Chain	Res	Type
1	A	57	ARG
1	A	79	SER
1	A	82	ASP
1	A	115	THR
1	A	116	LYS
1	A	119	GLU
1	A	122	LEU
1	A	130	ASN
1	A	134	LYS
1	A	137	ASP
1	A	138	ASN
1	A	139	PHE
1	A	543	LYS
1	A	617	LYS
1	A	827	GLU
1	A	829	TYR
1	A	830	SER
1	A	833	ILE
2	C	68	THR
2	C	85	LEU
2	C	294	LEU
2	C	315	THR
2	C	318	ILE
2	C	326	LEU
2	C	331	LEU
2	C	337	THR
2	C	462	LEU
2	C	476	ASN
2	C	520	LEU
2	C	530	LEU
2	C	577	PHE
2	C	691	GLN
2	C	695	ASP
2	C	826	LEU
2	C	828	THR
2	C	896	CYS
2	C	1034	SER
2	C	1252	ASP
2	C	1253	VAL
2	C	1262	LEU
2	C	1299	LYS
2	C	1301	SER

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Mol	Chain	Res	Type
2	C	1387	HIS
3	D	445	ARG
3	D	528	PRO
3	D	980	SER
3	D	982	GLU
3	D	990	GLU
3	D	995	PHE
3	D	1000	ASP
3	D	1115	VAL
3	D	1118	LEU
3	D	1129	ASN
3	D	1160	HIS
3	D	1472	ILE
3	D	1495	LEU
4	E	138	VAL
4	E	260	ARG
4	E	261	ILE
4	E	336	GLN
4	E	771	LEU
4	E	773	LEU
4	E	791	ASP
4	E	827	PRO
4	E	843	LEU
4	E	923	LEU
4	E	931	PHE
4	E	975	GLN
4	E	976	PHE
4	E	980	LYS
4	E	984	ASP
4	E	986	SER
4	E	1026	THR
4	E	1077	ARG
4	E	1164	ASP
4	E	1259	PHE
4	E	1301	LYS
4	E	1313	ARG
4	E	1557	LEU
4	E	1597	ARG
5	F	64	PHE
5	F	164	LYS
5	F	331	ILE
5	F	334	GLN

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Mol	Chain	Res	Type
5	F	356	ILE
5	F	389	LEU
5	F	397	MET
5	F	399	SER
5	F	407	ASN
5	F	408	SER
5	F	409	MET
5	F	444	THR
5	F	556	LYS
5	F	644	LYS
5	F	712	LEU
5	F	745	ARG
5	F	750	TRP
5	F	782	LYS
5	F	815	PHE
5	F	825	ILE
5	F	836	ILE
5	F	837	TYR
5	F	888	PRO
5	F	900	LEU
5	F	920	ILE
5	F	921	PRO
5	F	926	LEU
5	F	928	LEU
5	F	934	ASP
5	F	950	GLU
5	F	951	ARG
5	F	955	SER
5	F	958	SER
5	F	962	ARG
5	F	965	LEU
5	F	1029	SER
5	F	1041	PHE
5	F	1060	LEU
5	F	1068	ILE
5	F	1090	PRO
5	F	1092	THR
5	F	1118	ARG
5	F	1128	ASP
5	F	1129	ASN
5	F	1144	VAL
5	F	1147	PHE

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Mol	Chain	Res	Type
5	F	1149	SER
5	F	1150	PHE
5	F	1153	TYR
5	F	1155	ASN
5	F	1159	GLN
5	F	1165	ILE
5	F	1166	HIS
5	F	1167	LYS
5	F	1169	SER
5	F	1170	PHE
5	F	1181	VAL
5	F	1191	SER
5	F	1192	VAL
5	F	1210	LYS
5	F	1273	LYS
5	F	1276	ASP
5	F	1277	VAL
5	F	1278	GLU
5	F	1280	ILE
5	F	1281	LYS
5	F	1283	LYS
5	F	1285	HIS
5	F	1286	PHE
5	F	1289	ILE
5	F	1291	SER
5	F	1293	ASN
5	F	1296	LEU
5	F	1297	GLU
5	F	1300	LEU
5	F	1301	SER
5	F	1302	VAL
5	F	1303	LEU
5	F	1309	LEU
5	F	1314	VAL
5	F	1315	THR
5	F	1349	PHE
5	F	1356	LEU
5	F	1361	PHE
5	F	1364	TYR
5	F	1365	ASN
5	F	1372	THR
5	F	1373	ASP

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Mol	Chain	Res	Type
5	F	1382	TYR
5	F	1387	THR
5	F	1417	LEU
5	F	1484	ARG
5	F	1550	LEU
5	F	1634	LYS
5	F	1635	ARG
5	F	1680	GLN
6	G	411	ASN
6	G	460	LEU
7	H	325	THR
7	H	418	GLN
7	H	507	ASN
7	H	508	LYS
7	H	529	LYS
8	I	688	HIS
8	I	727	SER
8	I	736	ASN
8	I	740	LYS
8	I	778	LYS
8	I	792	GLN
8	I	795	LYS
8	I	797	LEU
8	I	808	ASP
8	I	810	ASN
8	I	812	THR
8	I	815	GLU
8	I	818	ILE
8	I	819	ASN
8	I	821	ILE
8	I	822	LYS
8	I	823	LYS
6	J	357	LEU
6	J	368	ASP
6	J	370	ASP
6	J	371	LYS
6	J	372	PHE
6	J	375	LYS
6	J	376	LYS
6	J	385	GLU
6	J	389	ARG
6	J	390	ILE

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Mol	Chain	Res	Type
6	J	393	ASP
6	J	401	ILE
6	J	402	ASP
6	J	403	THR
6	J	405	LEU
6	J	411	ASN
6	J	430	LEU
7	K	341	LYS
7	K	384	THR
7	K	385	GLN
7	K	387	GLN
7	K	391	GLU
7	K	393	ASP
7	K	394	THR
7	K	398	ILE
7	K	399	LEU
7	K	400	LYS
7	K	402	GLN
7	K	404	ARG
7	K	423	LYS
7	K	443	LEU
7	K	446	ARG
7	K	449	ASP
7	K	453	LEU
7	K	455	LYS
7	K	529	LYS
8	L	703	GLN
1	M	15	SER
1	M	16	LYS
1	M	21	LYS
1	M	23	ASN
1	M	24	GLU
1	M	29	SER
1	M	45	SER
1	M	53	VAL
1	M	54	PHE
1	M	57	ARG
1	M	79	SER
1	M	82	ASP
1	M	115	THR
1	M	116	LYS
1	M	119	GLU

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Mol	Chain	Res	Type
1	M	122	LEU
1	M	130	ASN
1	M	134	LYS
1	M	137	ASP
1	M	138	ASN
1	M	139	PHE
1	M	543	LYS
1	M	617	LYS
1	M	827	GLU
1	M	829	TYR
1	M	830	SER
1	M	833	ILE
1	N	19	ASN
1	N	21	LYS
1	N	22	LEU
1	N	27	GLU
1	N	30	ASP
1	N	46	ILE
1	N	49	LEU
1	N	53	VAL
1	N	56	LEU
1	N	79	SER
1	N	80	PHE
1	N	81	GLU
1	N	84	ASP
1	N	87	ILE
1	N	88	LYS
1	N	89	ASP
1	N	90	LEU
1	N	92	THR
1	N	116	LYS
1	N	117	LYS
1	N	119	GLU
1	N	121	ILE
1	N	122	LEU
1	N	125	ILE
1	N	127	GLN
1	N	128	LEU
1	N	129	LEU
1	N	130	ASN
1	N	133	THR
1	N	134	LYS

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Mol	Chain	Res	Type
1	N	138	ASN
1	N	139	PHE
1	N	144	LEU
1	N	146	LEU
1	N	252	GLN
1	N	254	LEU
1	N	294	MET
1	N	399	LYS
1	N	446	LYS
1	N	551	ARG
1	N	731	GLN
1	N	758	GLN
1	N	765	ASP
1	N	766	ASN
1	N	767	ILE
1	N	772	PRO
1	N	775	LEU
1	N	776	ILE
1	N	777	ILE
1	N	793	LYS
1	N	805	SER
1	N	808	ASN
1	N	824	MET
1	N	827	GLU
1	N	828	THR
2	O	68	THR
2	O	85	LEU
2	O	294	LEU
2	O	315	THR
2	O	318	ILE
2	O	326	LEU
2	O	331	LEU
2	O	337	THR
2	O	462	LEU
2	O	476	ASN
2	O	520	LEU
2	O	530	LEU
2	O	577	PHE
2	O	691	GLN
2	O	695	ASP
2	O	826	LEU
2	O	828	THR

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Mol	Chain	Res	Type
2	O	896	CYS
2	O	1034	SER
2	O	1252	ASP
2	O	1253	VAL
2	O	1262	LEU
2	O	1299	LYS
2	O	1301	SER
2	O	1387	HIS
3	P	445	ARG
3	P	528	PRO
3	P	980	SER
3	P	982	GLU
3	P	990	GLU
3	P	995	PHE
3	P	1000	ASP
3	P	1115	VAL
3	P	1118	LEU
3	P	1129	ASN
3	P	1160	HIS
3	P	1472	ILE
3	P	1495	LEU
4	Q	138	VAL
4	Q	257	LEU
4	Q	258	ILE
4	Q	336	GLN
4	Q	771	LEU
4	Q	773	LEU
4	Q	791	ASP
4	Q	827	PRO
4	Q	843	LEU
4	Q	923	LEU
4	Q	931	PHE
4	Q	975	GLN
4	Q	976	PHE
4	Q	980	LYS
4	Q	984	ASP
4	Q	986	SER
4	Q	1026	THR
4	Q	1077	ARG
4	Q	1164	ASP
4	Q	1259	PHE
4	Q	1301	LYS

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Mol	Chain	Res	Type
4	Q	1313	ARG
4	Q	1557	LEU
4	Q	1597	ARG
5	R	64	PHE
5	R	164	LYS
5	R	331	ILE
5	R	334	GLN
5	R	356	ILE
5	R	389	LEU
5	R	397	MET
5	R	399	SER
5	R	407	ASN
5	R	408	SER
5	R	409	MET
5	R	444	THR
5	R	556	LYS
5	R	644	LYS
5	R	712	LEU
5	R	745	ARG
5	R	750	TRP
5	R	782	LYS
5	R	815	PHE
5	R	825	ILE
5	R	836	ILE
5	R	837	TYR
5	R	888	PRO
5	R	900	LEU
5	R	920	ILE
5	R	921	PRO
5	R	926	LEU
5	R	928	LEU
5	R	934	ASP
5	R	950	GLU
5	R	951	ARG
5	R	955	SER
5	R	958	SER
5	R	962	ARG
5	R	965	LEU
5	R	1029	SER
5	R	1041	PHE
5	R	1060	LEU
5	R	1068	ILE

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Mol	Chain	Res	Type
5	R	1090	PRO
5	R	1092	THR
5	R	1118	ARG
5	R	1128	ASP
5	R	1129	ASN
5	R	1144	VAL
5	R	1147	PHE
5	R	1149	SER
5	R	1150	PHE
5	R	1153	TYR
5	R	1155	ASN
5	R	1159	GLN
5	R	1165	ILE
5	R	1166	HIS
5	R	1167	LYS
5	R	1169	SER
5	R	1170	PHE
5	R	1181	VAL
5	R	1191	SER
5	R	1192	VAL
5	R	1210	LYS
5	R	1273	LYS
5	R	1276	ASP
5	R	1277	VAL
5	R	1278	GLU
5	R	1280	ILE
5	R	1281	LYS
5	R	1283	LYS
5	R	1285	HIS
5	R	1286	PHE
5	R	1289	ILE
5	R	1291	SER
5	R	1293	ASN
5	R	1296	LEU
5	R	1297	GLU
5	R	1300	LEU
5	R	1301	SER
5	R	1302	VAL
5	R	1303	LEU
5	R	1309	LEU
5	R	1314	VAL
5	R	1315	THR

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Mol	Chain	Res	Type
5	R	1349	PHE
5	R	1356	LEU
5	R	1361	PHE
5	R	1364	TYR
5	R	1365	ASN
5	R	1372	THR
5	R	1373	ASP
5	R	1382	TYR
5	R	1387	THR
5	R	1417	LEU
5	R	1484	ARG
5	R	1550	LEU
5	R	1559	LEU
5	R	1561	LEU
5	R	1634	LYS
5	R	1635	ARG
5	R	1680	GLN
6	S	411	ASN
6	S	460	LEU
7	T	325	THR
7	T	418	GLN
7	T	507	ASN
7	T	508	LYS
7	T	529	LYS
8	U	688	HIS
8	U	727	SER
8	U	736	ASN
8	U	740	LYS
8	U	778	LYS
8	U	792	GLN
8	U	795	LYS
8	U	797	LEU
8	U	808	ASP
8	U	810	ASN
8	U	812	THR
8	U	815	GLU
8	U	818	ILE
8	U	819	ASN
8	U	821	ILE
8	U	822	LYS
8	U	823	LYS
6	V	357	LEU

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Mol	Chain	Res	Type
6	V	368	ASP
6	V	370	ASP
6	V	371	LYS
6	V	375	LYS
6	V	376	LYS
6	V	385	GLU
6	V	389	ARG
6	V	391	LEU
6	V	394	ILE
6	V	401	ILE
6	V	405	LEU
6	V	411	ASN
6	V	430	LEU
7	W	341	LYS
7	W	384	THR
7	W	385	GLN
7	W	387	GLN
7	W	391	GLU
7	W	393	ASP
7	W	394	THR
7	W	398	ILE
7	W	399	LEU
7	W	400	LYS
7	W	402	GLN
7	W	404	ARG
7	W	423	LYS
7	W	443	LEU
7	W	446	ARG
7	W	449	ASP
7	W	453	LEU
7	W	455	LYS
7	W	506	ILE
7	W	509	ILE
7	W	518	ARG
7	W	522	TYR
7	W	529	LYS
7	W	539	ASN
8	X	703	GLN
1	Z	14	THR
1	Z	16	LYS
1	Z	20	LYS
1	Z	22	LEU

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Mol	Chain	Res	Type
1	Z	26	LEU
1	Z	28	SER
1	Z	46	ILE
1	Z	49	LEU
1	Z	53	VAL
1	Z	56	LEU
1	Z	79	SER
1	Z	80	PHE
1	Z	81	GLU
1	Z	84	ASP
1	Z	87	ILE
1	Z	88	LYS
1	Z	89	ASP
1	Z	90	LEU
1	Z	92	THR
1	Z	116	LYS
1	Z	117	LYS
1	Z	119	GLU
1	Z	121	ILE
1	Z	122	LEU
1	Z	125	ILE
1	Z	127	GLN
1	Z	128	LEU
1	Z	129	LEU
1	Z	130	ASN
1	Z	133	THR
1	Z	134	LYS
1	Z	138	ASN
1	Z	139	PHE
1	Z	144	LEU
1	Z	146	LEU
1	Z	253	LEU
1	Z	294	MET
1	Z	399	LYS
1	Z	446	LYS
1	Z	551	ARG
1	Z	731	GLN
1	Z	758	GLN
1	Z	765	ASP
1	Z	766	ASN
1	Z	767	ILE
1	Z	772	PRO

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Mol	Chain	Res	Type
1	Z	775	LEU
1	Z	776	ILE
1	Z	777	ILE
1	Z	793	LYS
1	Z	805	SER
1	Z	808	ASN
1	Z	824	MET
1	Z	827	GLU
1	Z	828	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (229) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	130	ASN
1	A	138	ASN
1	A	733	GLN
1	A	787	HIS
2	C	199	HIS
2	C	691	GLN
2	C	827	ASN
2	C	914	GLN
2	C	941	ASN
2	C	1387	HIS
3	D	449	ASN
3	D	484	GLN
3	D	850	ASN
3	D	1086	ASN
3	D	1129	ASN
4	E	36	GLN
4	E	190	GLN
4	E	210	ASN
4	E	299	ASN
4	E	388	ASN
4	E	571	ASN
4	E	600	ASN
4	E	636	GLN
4	E	677	ASN
4	E	759	ASN
4	E	763	GLN
4	E	770	HIS
4	E	822	ASN
4	E	1001	ASN

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Mol	Chain	Res	Type
4	E	1029	ASN
4	E	1383	GLN
4	E	1429	HIS
4	E	1493	ASN
4	E	1535	ASN
4	E	1539	ASN
4	E	1558	GLN
5	F	38	ASN
5	F	163	ASN
5	F	177	GLN
5	F	195	GLN
5	F	258	GLN
5	F	334	GLN
5	F	428	GLN
5	F	539	ASN
5	F	542	ASN
5	F	714	HIS
5	F	725	ASN
5	F	1260	ASN
5	F	1293	ASN
5	F	1299	ASN
5	F	1365	ASN
5	F	1541	ASN
6	G	328	GLN
6	G	355	GLN
6	G	428	ASN
7	H	362	ASN
7	H	365	GLN
7	H	368	ASN
7	H	377	ASN
7	H	524	ASN
8	I	647	GLN
8	I	654	HIS
8	I	690	GLN
8	I	695	GLN
8	I	743	GLN
8	I	754	ASN
8	I	781	ASN
8	I	800	HIS
8	I	819	ASN
6	J	324	GLN
6	J	328	GLN

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Mol	Chain	Res	Type
6	J	355	GLN
6	J	367	ASN
6	J	374	GLN
6	J	378	HIS
7	K	337	GLN
7	K	359	ASN
7	K	362	ASN
7	K	365	GLN
7	K	368	ASN
7	K	377	ASN
7	K	385	GLN
7	K	387	GLN
7	K	402	GLN
7	K	424	ASN
7	K	515	ASN
7	K	539	ASN
8	L	647	GLN
8	L	654	HIS
8	L	695	GLN
8	L	704	GLN
8	L	749	GLN
8	L	754	ASN
8	L	774	ASN
8	L	800	HIS
1	M	19	ASN
1	M	130	ASN
1	M	138	ASN
1	M	540	ASN
1	M	733	GLN
1	M	787	HIS
1	N	19	ASN
1	N	60	ASN
1	N	127	GLN
1	N	130	ASN
1	N	138	ASN
1	N	141	ASN
1	N	196	ASN
1	N	246	ASN
1	N	252	GLN
1	N	396	GLN
1	N	463	GLN
1	N	464	ASN

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Mol	Chain	Res	Type
1	N	621	HIS
1	N	658	ASN
1	N	738	GLN
1	N	758	GLN
1	N	770	ASN
1	N	802	GLN
1	N	834	ASN
2	O	199	HIS
2	O	691	GLN
2	O	827	ASN
2	O	914	GLN
2	O	941	ASN
2	O	1258	GLN
2	O	1387	HIS
3	P	449	ASN
3	P	484	GLN
3	P	850	ASN
3	P	1086	ASN
3	P	1129	ASN
4	Q	36	GLN
4	Q	190	GLN
4	Q	210	ASN
4	Q	299	ASN
4	Q	388	ASN
4	Q	571	ASN
4	Q	600	ASN
4	Q	636	GLN
4	Q	677	ASN
4	Q	759	ASN
4	Q	763	GLN
4	Q	770	HIS
4	Q	822	ASN
4	Q	1001	ASN
4	Q	1029	ASN
4	Q	1383	GLN
4	Q	1429	HIS
4	Q	1493	ASN
4	Q	1535	ASN
4	Q	1539	ASN
4	Q	1558	GLN
5	R	38	ASN
5	R	163	ASN

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Mol	Chain	Res	Type
5	R	177	GLN
5	R	195	GLN
5	R	258	GLN
5	R	334	GLN
5	R	428	GLN
5	R	539	ASN
5	R	542	ASN
5	R	714	HIS
5	R	725	ASN
5	R	1293	ASN
5	R	1299	ASN
5	R	1365	ASN
5	R	1541	ASN
5	R	1680	GLN
6	S	328	GLN
6	S	355	GLN
6	S	428	ASN
7	T	362	ASN
7	T	365	GLN
7	T	368	ASN
7	T	377	ASN
7	T	524	ASN
8	U	647	GLN
8	U	654	HIS
8	U	690	GLN
8	U	695	GLN
8	U	743	GLN
8	U	754	ASN
8	U	781	ASN
8	U	800	HIS
8	U	819	ASN
6	V	324	GLN
6	V	328	GLN
6	V	355	GLN
6	V	367	ASN
6	V	374	GLN
6	V	378	HIS
7	W	359	ASN
7	W	362	ASN
7	W	365	GLN
7	W	368	ASN
7	W	377	ASN

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Mol	Chain	Res	Type
7	W	385	GLN
7	W	387	GLN
7	W	402	GLN
7	W	424	ASN
7	W	515	ASN
7	W	539	ASN
8	X	647	GLN
8	X	654	HIS
8	X	695	GLN
8	X	704	GLN
8	X	749	GLN
8	X	754	ASN
8	X	774	ASN
8	X	777	ASN
1	Z	60	ASN
1	Z	127	GLN
1	Z	130	ASN
1	Z	138	ASN
1	Z	141	ASN
1	Z	196	ASN
1	Z	214	ASN
1	Z	252	GLN
1	Z	396	GLN
1	Z	463	GLN
1	Z	464	ASN
1	Z	621	HIS
1	Z	658	ASN
1	Z	738	GLN
1	Z	758	GLN
1	Z	770	ASN
1	Z	802	GLN
1	Z	834	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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.

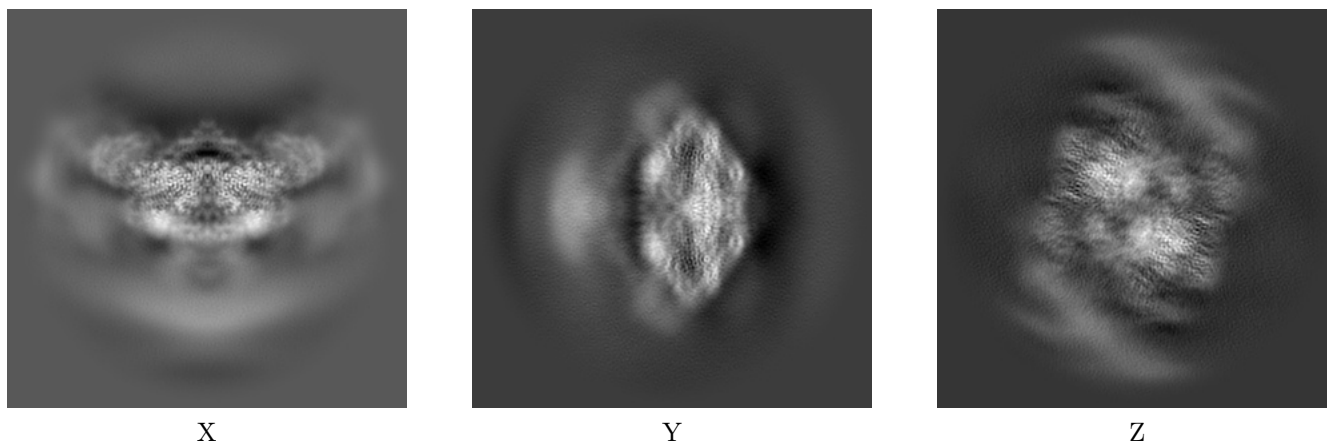
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-32658. 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](#)

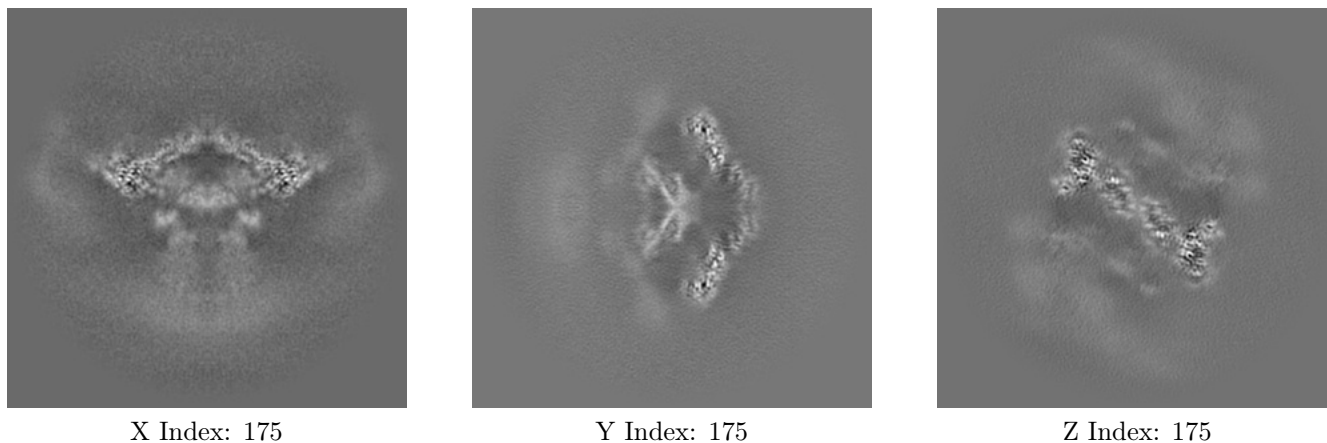
6.1.1 Primary map



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

6.2 Central slices [i](#)

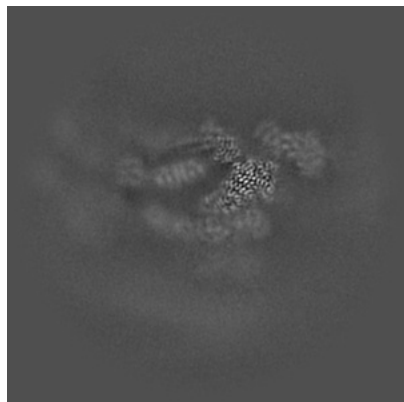
6.2.1 Primary map



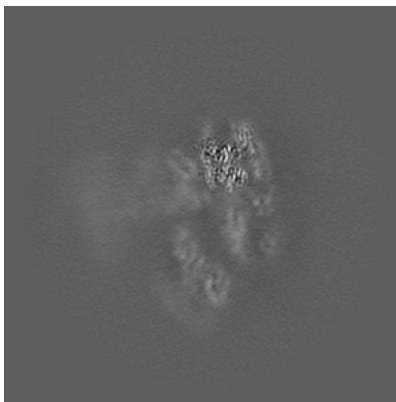
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

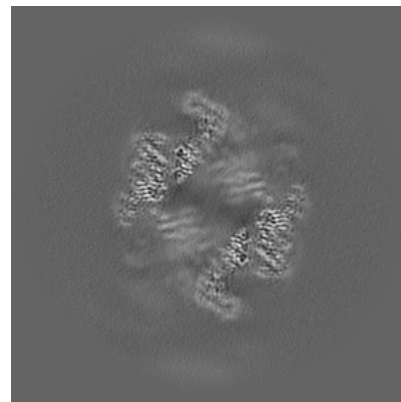
6.3.1 Primary map



X Index: 150



Y Index: 147



Z Index: 204

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 0.18. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

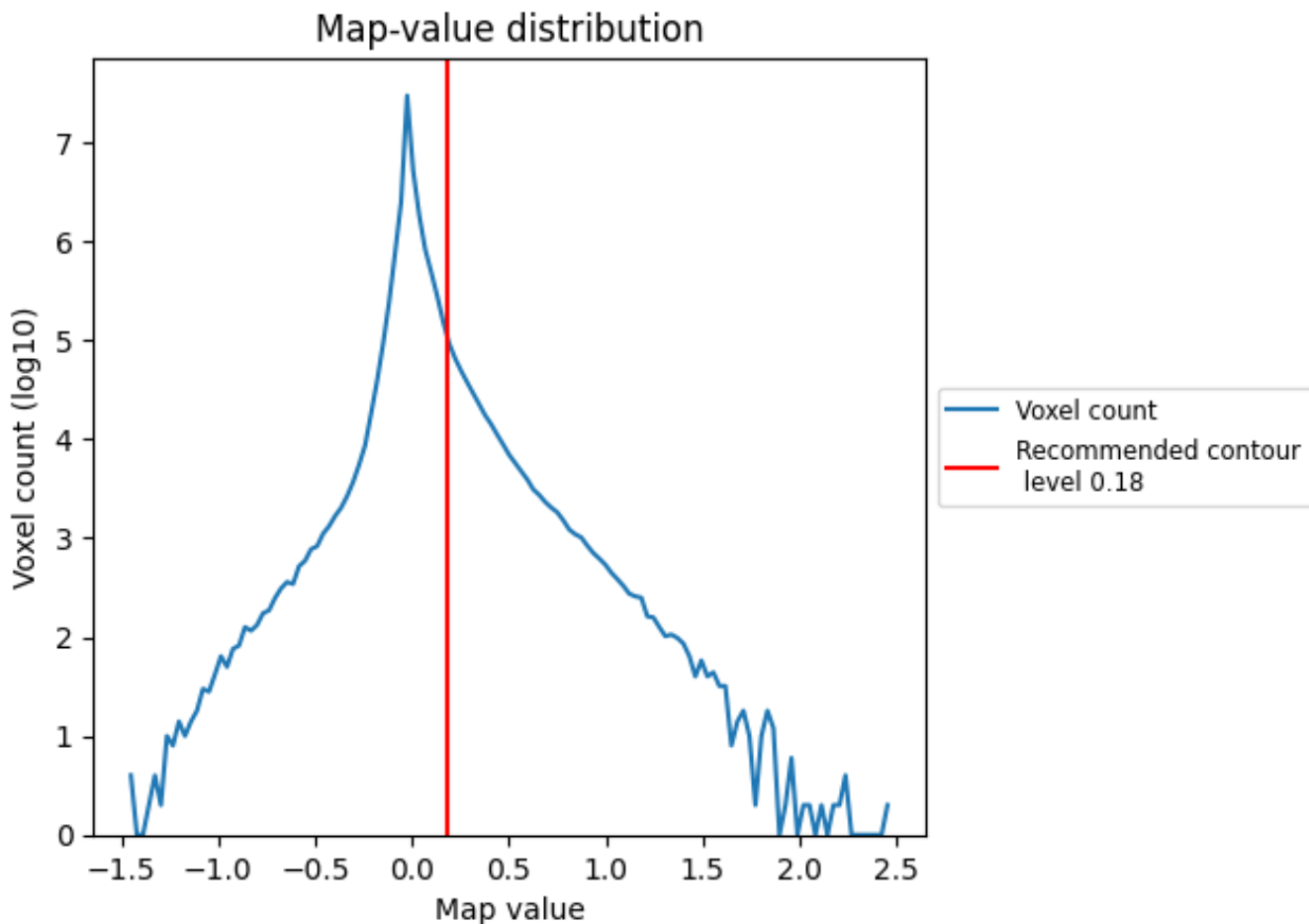
6.5 Mask visualisation

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

7 Map analysis [i](#)

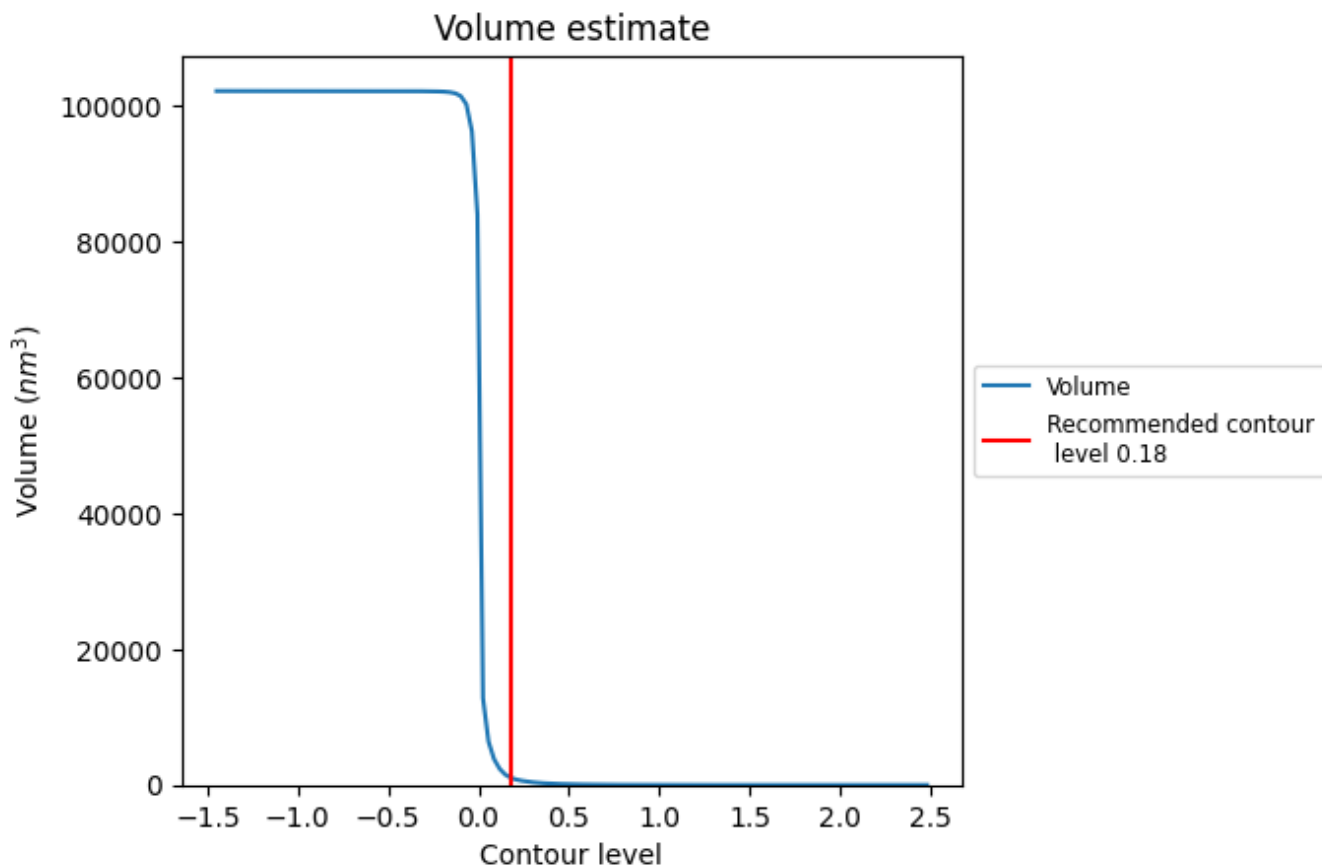
This section contains the results of statistical analysis of the map.

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.

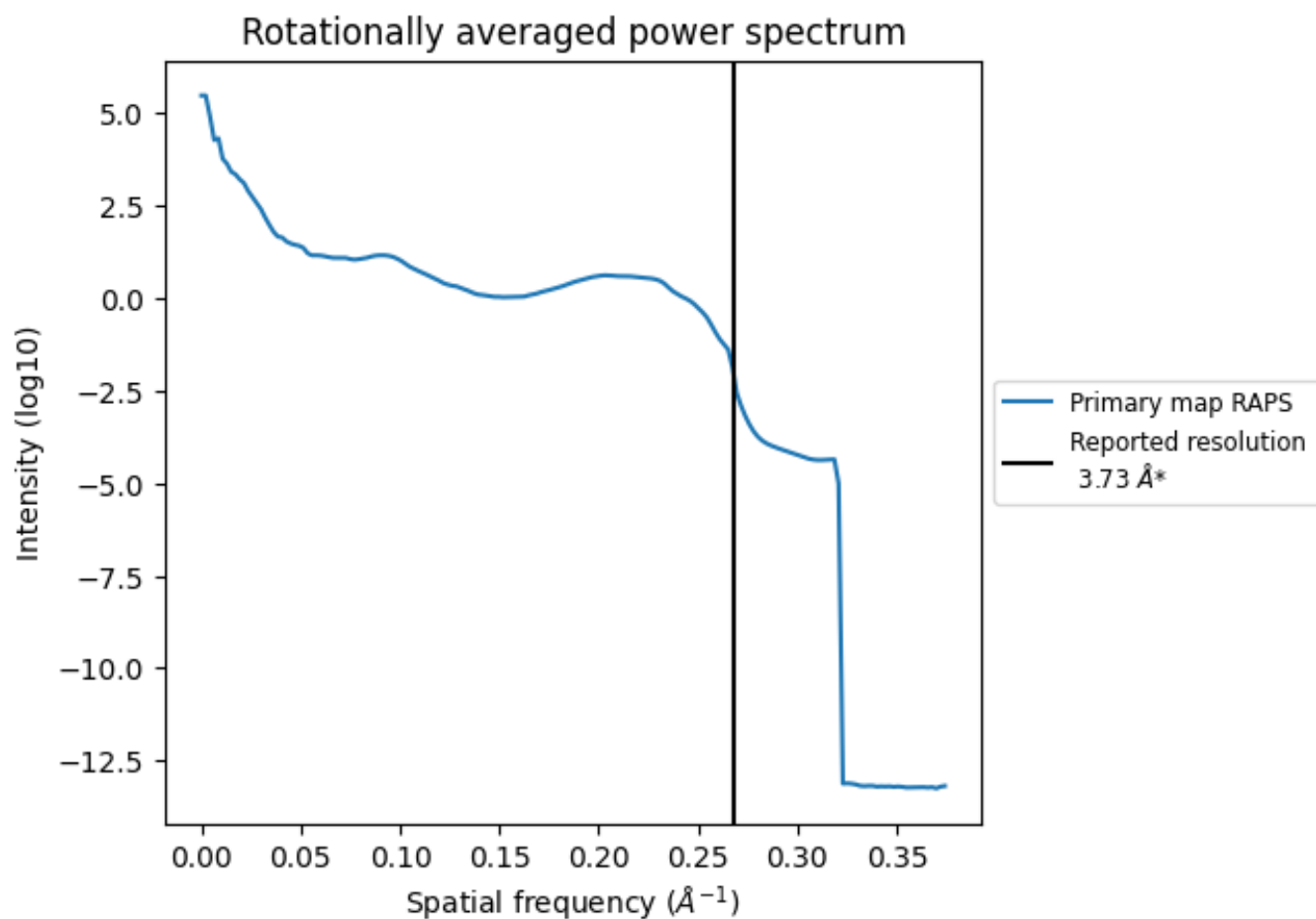
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1052 nm^3 ; this corresponds to an approximate mass of 950 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 0.268 Å⁻¹

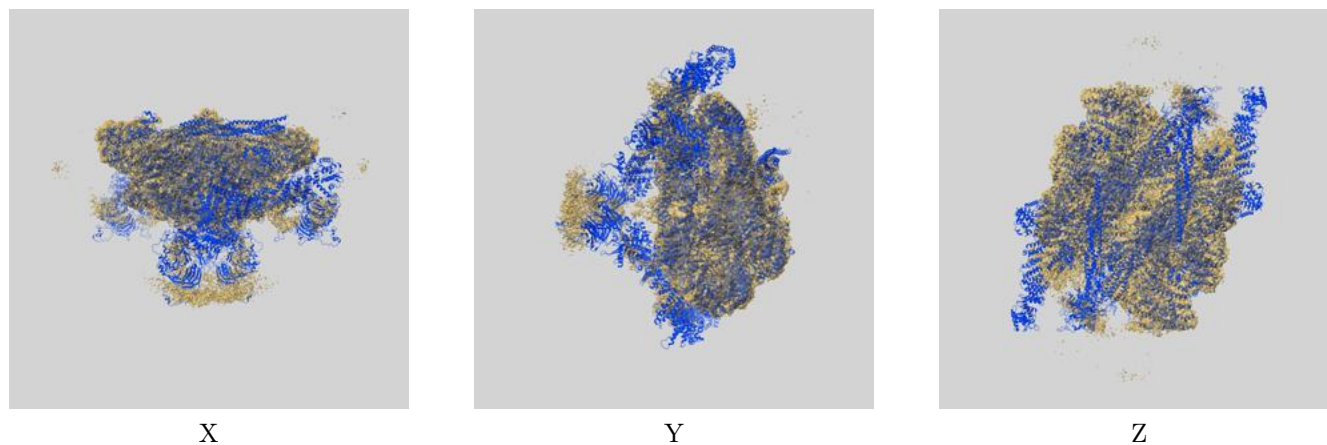
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

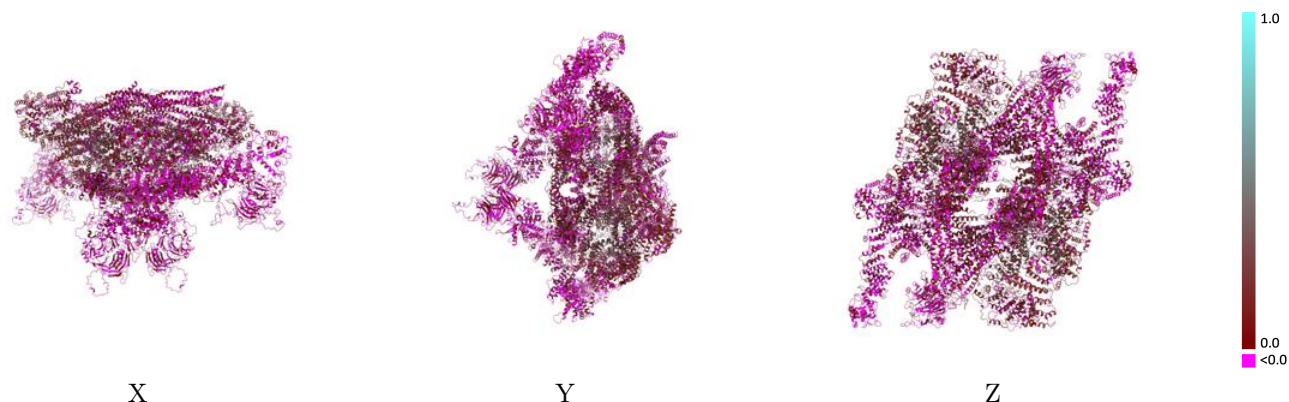
This section contains information regarding the fit between EMDB map EMD-32658 and PDB model 7WOT. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



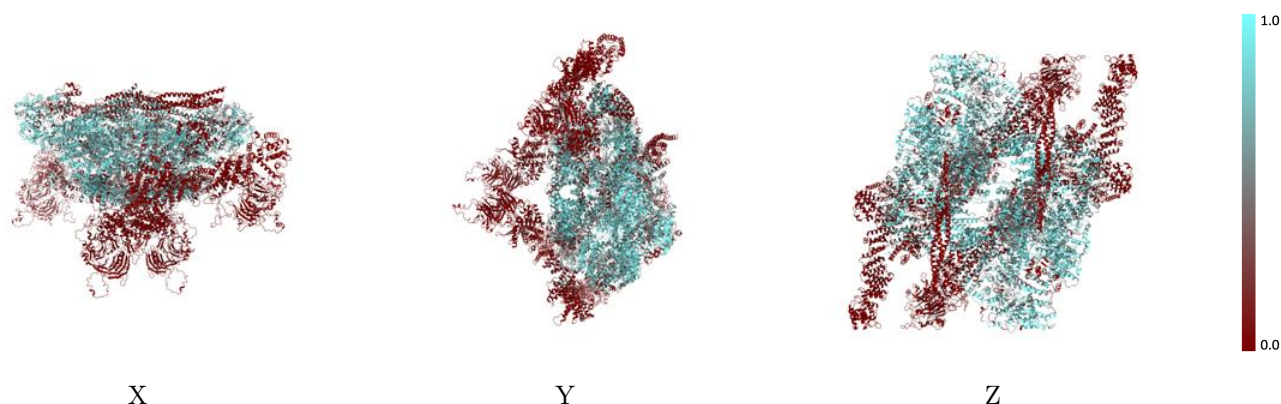
The images above show the 3D surface view of the map at the recommended contour level 0.18 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



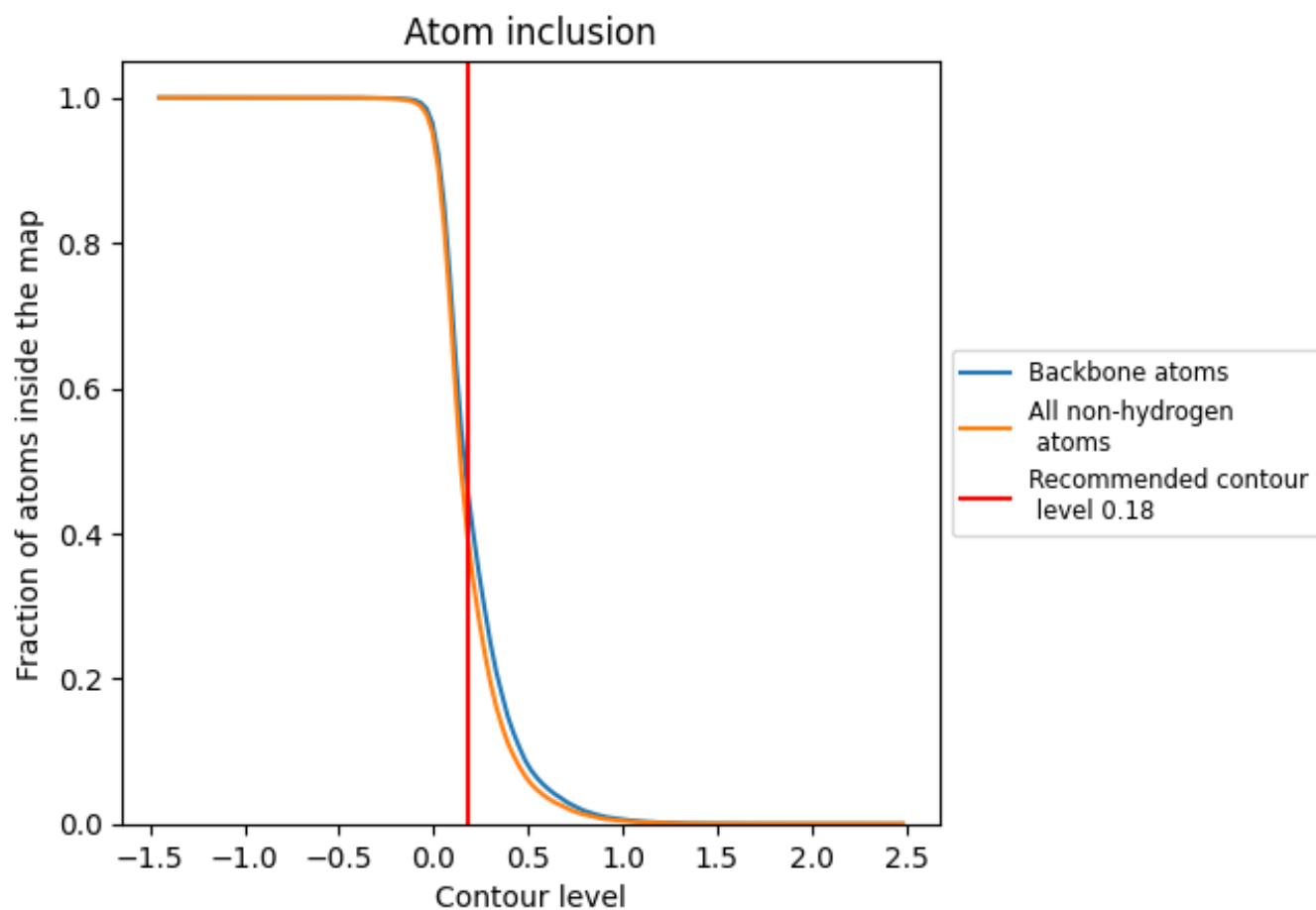
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.18).



















































9.4 Atom inclusion [i](#)



At the recommended contour level, 46% of all backbone atoms, 40% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.18) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.3966	 0.0910
A	 0.0875	 -0.0000
C	 0.0192	 0.0100
D	 0.2236	 0.0340
E	 0.6414	 0.1690
F	 0.6672	 0.1830
G	 0.4671	 0.0620
H	 0.4603	 0.0580
I	 0.5908	 0.1040
J	 0.3608	 0.0640
K	 0.2654	 0.0540
L	 0.3355	 0.0640
M	 0.0836	 0.0000
N	 0.5807	 0.1030
O	 0.0192	 0.0090
P	 0.2228	 0.0340
Q	 0.6449	 0.1740
R	 0.6700	 0.1830
S	 0.4671	 0.0620
T	 0.4609	 0.0570
U	 0.5936	 0.1070
V	 0.3642	 0.0620
W	 0.3035	 0.0730
X	 0.3333	 0.0650
Z	 0.5768	 0.1050

