



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 03:28 PM UTC

PDB ID : 7WOT / pdb_00007wot
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.

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

A user guide is available at

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

The types of validation reports are described at

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

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

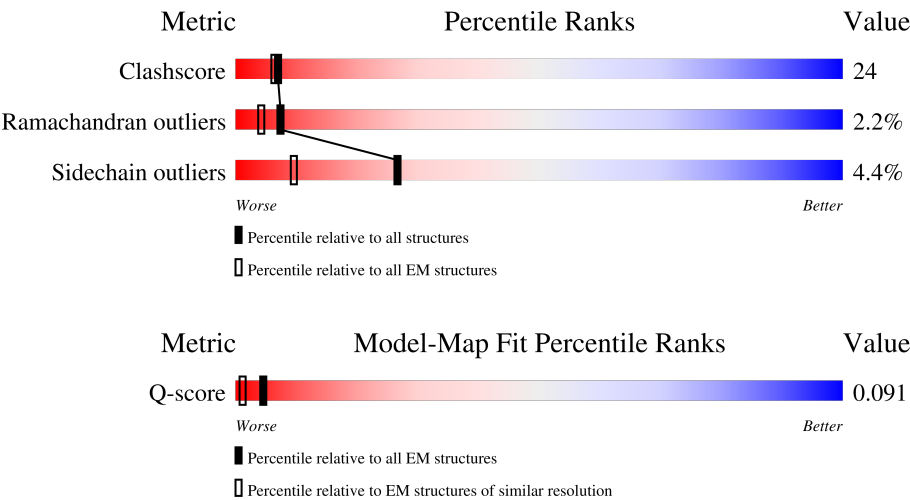
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10415 (3.23 - 4.23)

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% 53%32%•13%
1	M	839	79% 52%33%•13%
1	N	839	29% 50%31%6%•11%
1	Z	839	29% 51%30%6%•11%

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Mol	Chain	Length	Quality of chain
2	C	1391	
2	O	1391	
3	D	1502	
3	P	1502	
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
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
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
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
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		

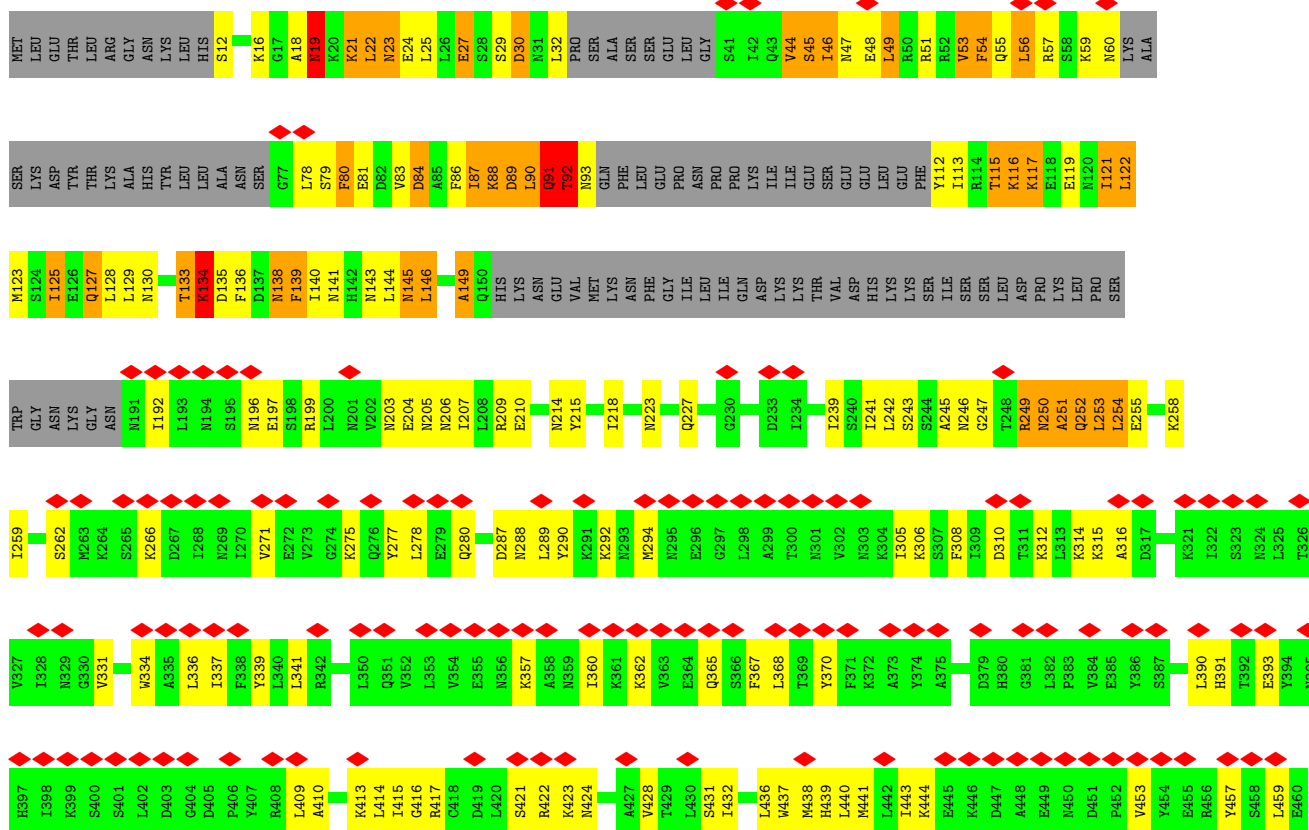
- Molecule 7 is a protein called Nucleoporin NUP57.

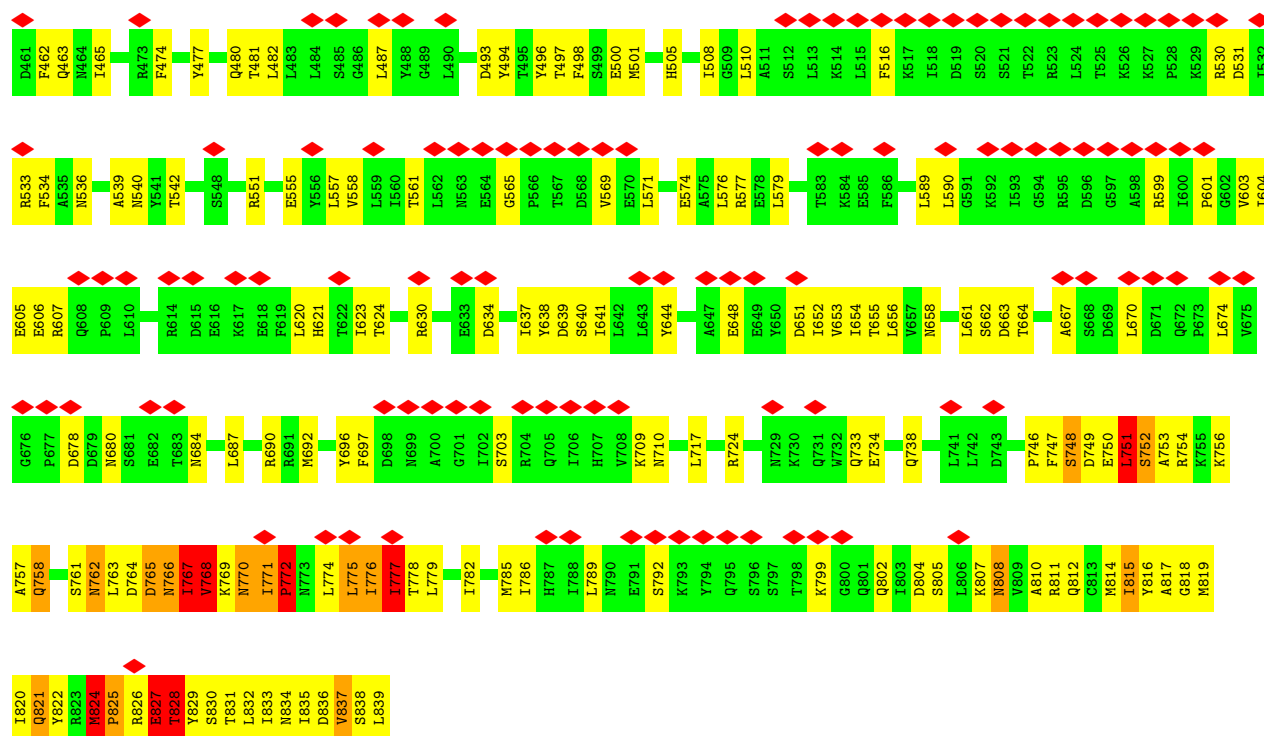
Mol	Chain	Residues	Atoms					AltConf	Trace
7	H	246	Total	C	N	O	S	0	0
			1811	1128	332	348	3		
7	K	254	Total	C	N	O	S	0	0
			1808	1126	334	345	3		
7	T	246	Total	C	N	O	S	0	0
			1811	1128	332	348	3		
7	W	254	Total	C	N	O	S	0	0
			1805	1123	334	345	3		

- Molecule 8 is a protein called Nucleoporin NSP1.

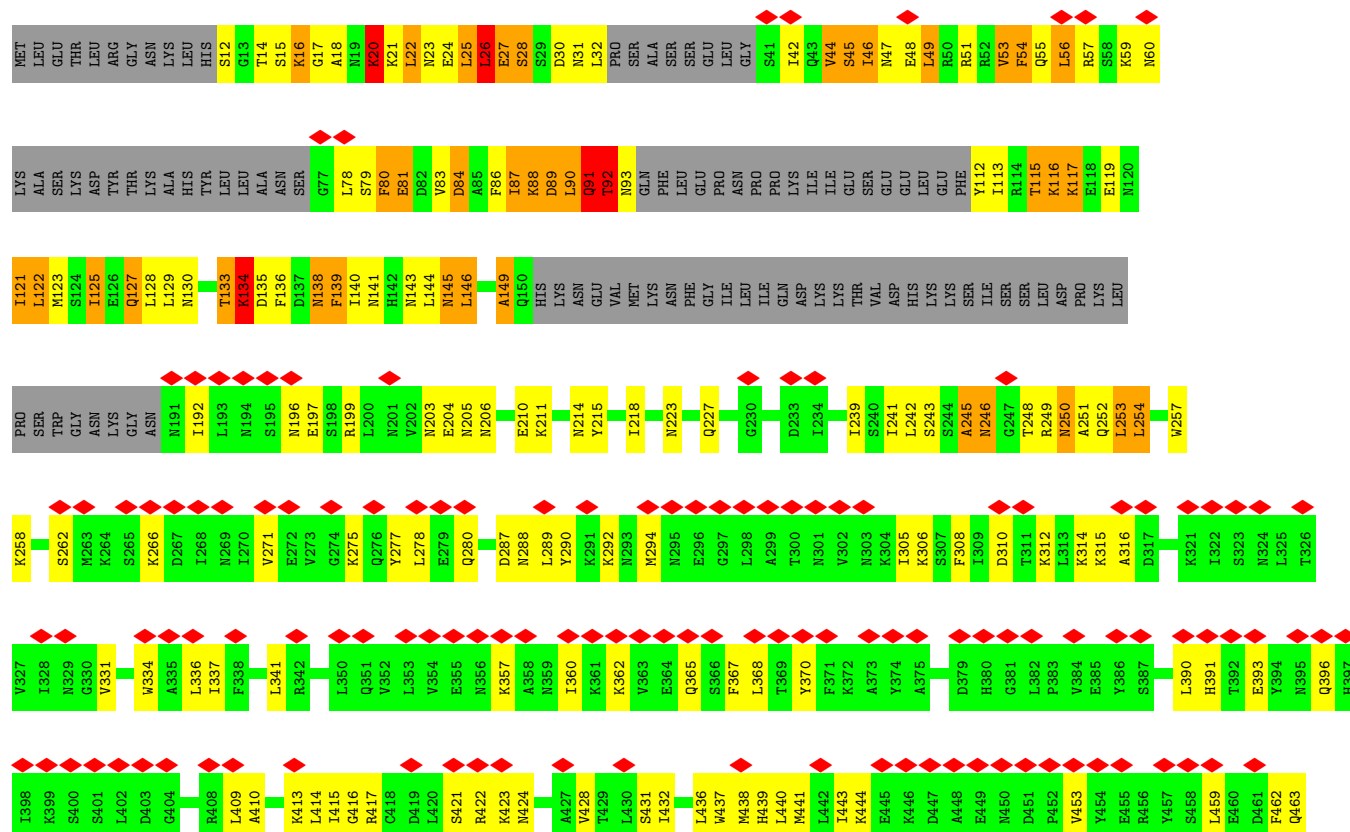
Mol	Chain	Residues	Atoms					AltConf	Trace
8	I	187	Total	C	N	O	S	0	0
			1418	862	244	311	1		
8	L	187	Total	C	N	O	S	0	0
			1366	830	240	295	1		
8	U	187	Total	C	N	O	S	0	0
			1418	862	244	311	1		
8	X	187	Total	C	N	O	S	0	0
			1366	830	240	295	1		

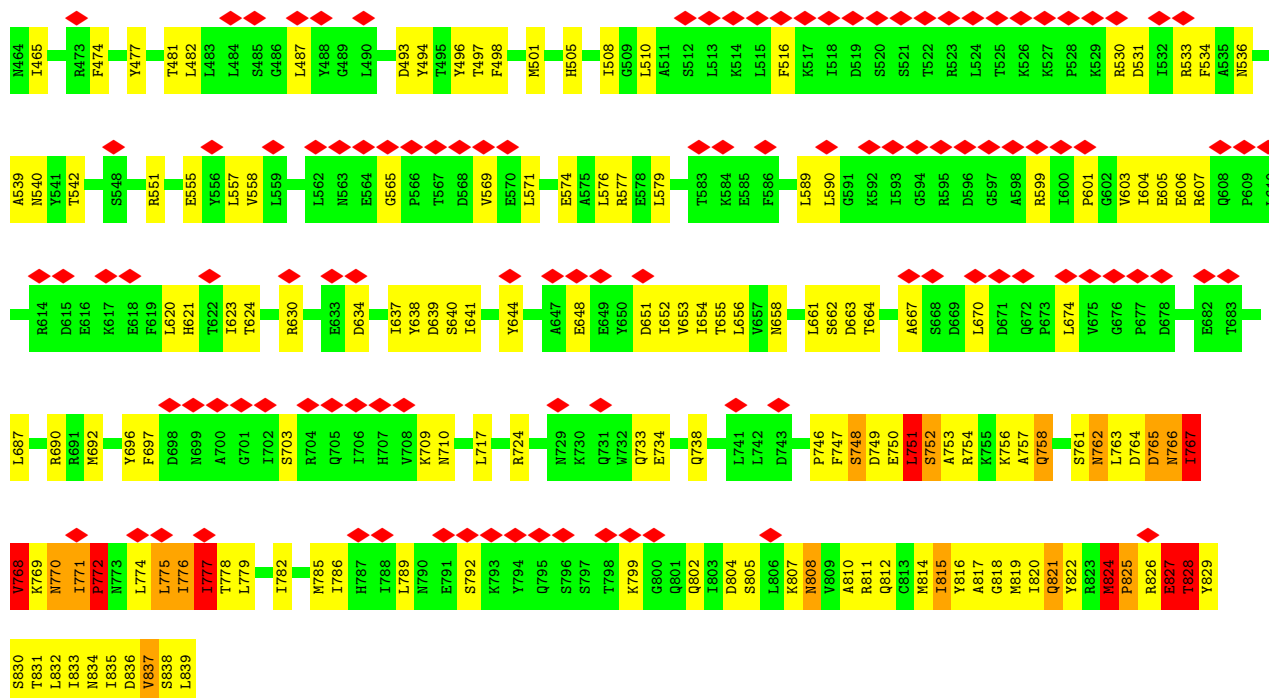






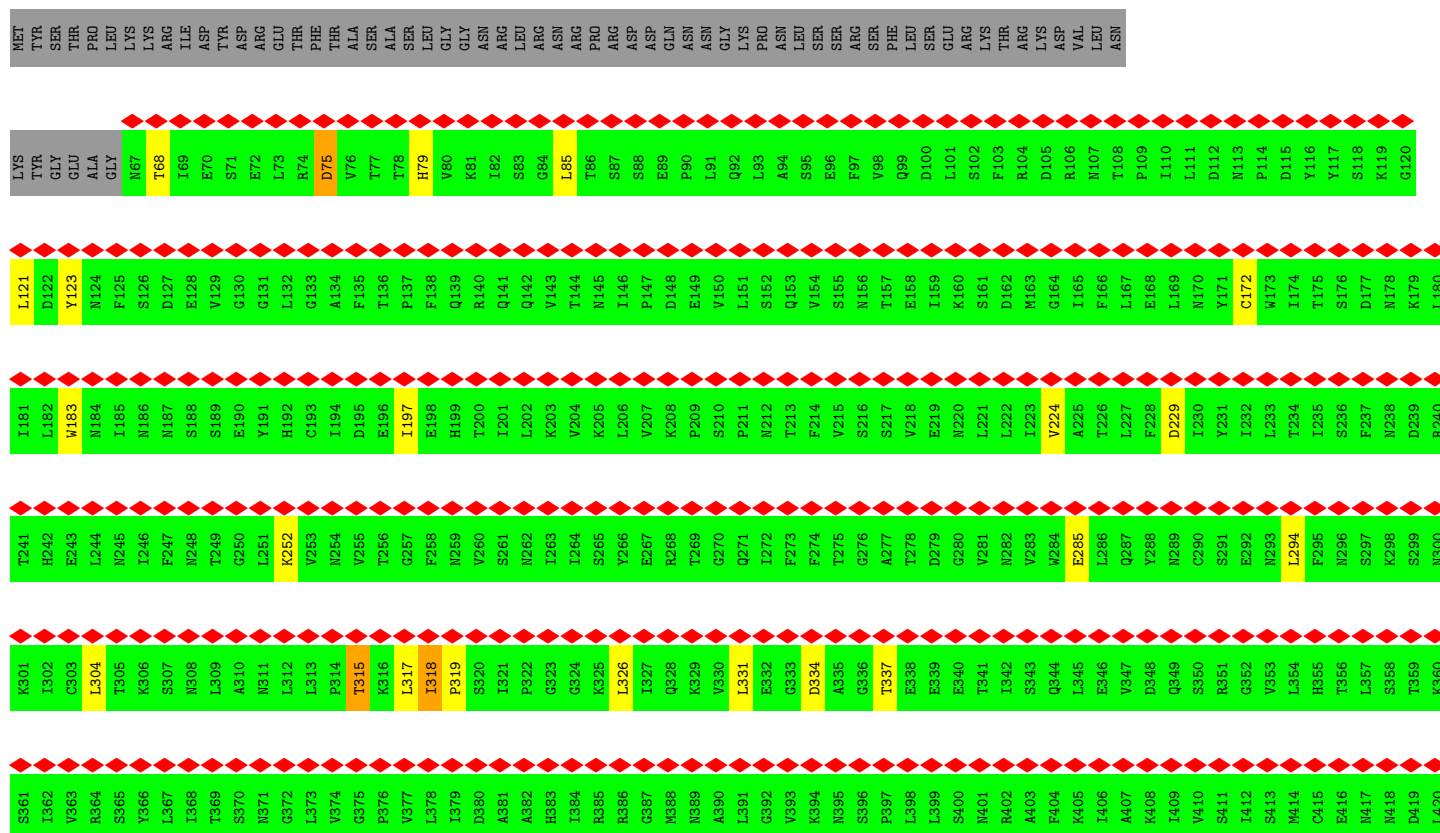
● Molecule 1: Nucleoporin NIC96



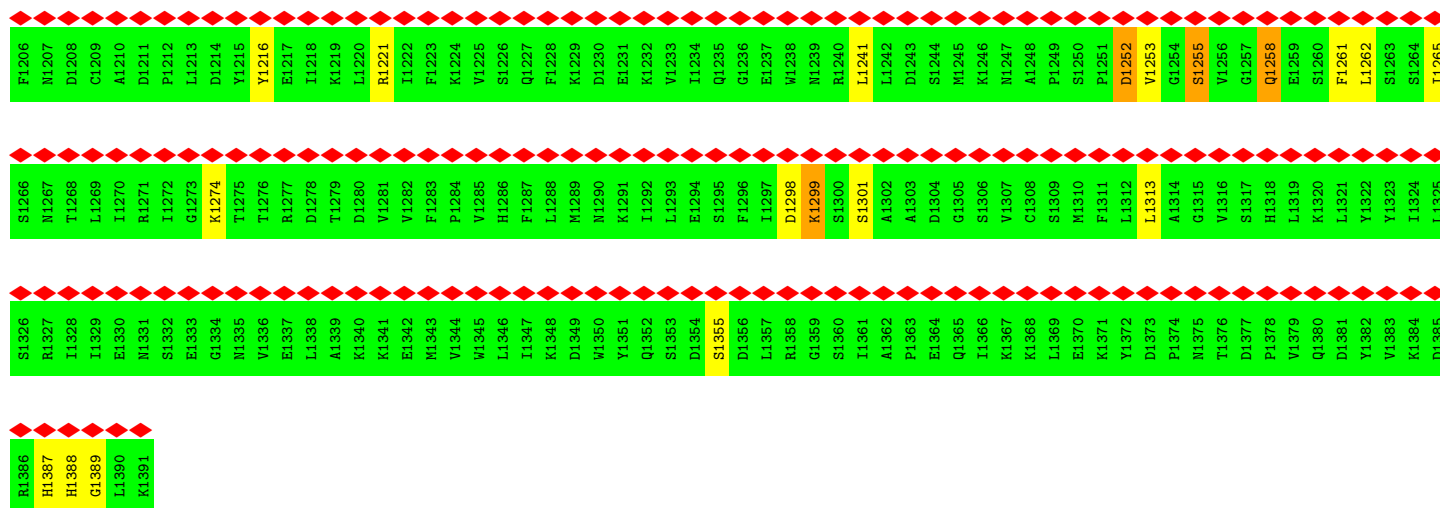


• Molecule 2: Nucleoporin NUP157

Chain C: 95%
89% 5% • 5%

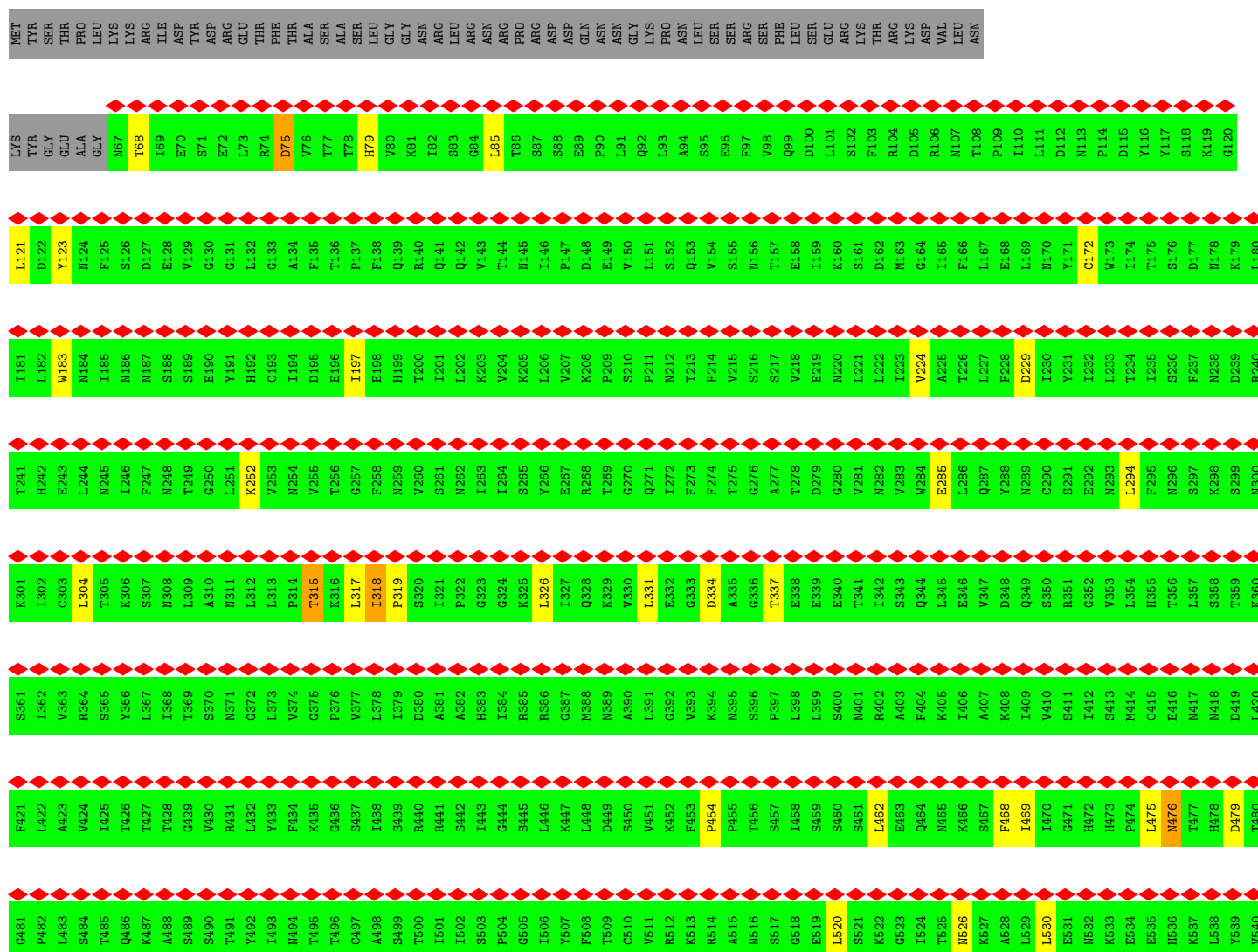


S1146	L1081	I1021	P961	Y901	R941	G781	S721	A661	V601	S541	G481	F421
F1147	P1082	E1022	K962	L902	E942	S782	Q722	L662	A602	A542	P482	L422
D1148	Y1083	Q1023	T963	C903	Y843	J783	I723	A663	V603	P643	L483	A423
Q1149	L1084	S1024	V964	Y904	F944	A784	W724	F664	L604	D544	S484	V424
K1150	K1085	P1025	G965	R905	F945	I785	E725	F665	T605	Y545	T485	I425
P1151	E1086	S1026	F966	A906	D946	T786	E726	S666	S606	G546	Q486	T426
A1152	R1087	I1027	L967	G907	L847	A787	R727	A667	N607	I547	K487	T427
L1153	A1088	A1028	L968	E908	K948	S788	W728	G668	A608	L548	A488	T428
V1154	E1089	R969	R969	H909	F949	D789	F729	I669	L609	K549	S489	G429
Q1155	K1090	F970	Y970	L910	H850	A790	W730	P670	E610	N550	S490	V430
L1156	S1091	A971	A971	E911	D851	E791	F731	G671	I611	Y551	T491	R431
S1157	L1092	D972	D972	A912	L852	S792	K732	V672	Y612	G552	Y492	L432
E1158	E1093	K973	K973	A913	F953	I793	R733	G673	C613	K553	I493	Y433
M1159	I1094	Y974	Y974	Q914	T854	A794	A734	E674	Y614	Y554	N494	F434
I1160	S1095	D975	D975	K915	P855	W795	S735	I675	R615	V555	T495	K435
H1161	N1096	K976	K976	F916	N856	W796	K736	K676	T616	E556	T496	G436
L1162	L1097	G977	G977	E917	A857	A797	T737	P677	P617	N557	C497	S437
L1163	L1098	S1037	N978	K918	K858	L798	E738	K678	D618	T558	A498	I438
Y1164	Y1099	L1039	Q979	I919	T859	I799	K739	S679	E519	A559	S499	S439
D1165	F1100	K1040	A980	D920	K860	L800	W740	S680	V620	L560	T500	R440
I1166	Y1101	K1041	Q981	S921	Q861	L801	D741	R681	F621	L561	I501	R441
L1167	L1102	R1042	E982	K922	L862	I802	A742	E682	E622	D562	I502	S442
S1168	F1103	Y1043	Y983	I923	I863	N803	F743	S683	S623	T563	S503	I443
I1169	K1104	Y1044	V984	S924	K864	S804	G744	G684	L624	T564	P504	G444
Q1170	E1105	S1045	S985	R925	E865	I805	I745	S685	I625	D565	G505	S445
D1171	E1106	V1046	R986	N926	I866	K806	S746	V686	E626	E566	I506	L446
H1172	H1107	I1047	G987	H927	L867	D807	I747	P687	N627	I567	Y507	K447
F1173	F1108	M1048	C988	L928	I868	A808	T748	P688	P628	K568	F508	L448
E1174	L1109	M1049	N989	D929	E869	L809	R749	I889	L629	E569	T509	D449
M1175	E1110	S1050	T990	T930	V670	S810	P750	S690	P630	I570	C510	S450
L1176	A1111	M1051	A991	A931	V671	L811	Q751	Q891	F631	V571	V511	V451
V1177	A1112	N1052	D992	I932	N872	I812	E752	N692	I632	P572	R512	K452
R1178	D1113	R1053	P993	D933	A873	N813	E753	L693	H633	L573	K513	F453
M1179	V1114	F1054	R994	L934	N874	V614	Y754	F694	S634	T574	R514	P454
E1180	L1115	F1055	K995	Y835	I875	F615	Y755	D895	Y635	R575	A515	P455
T1181	Y1116	H1056	V996	E936	A876	Y616	L756	K696	G636	S576	N516	T456
A1117	A1117	Y1057	F997	R937	S877	E517	S757	S697	L637	F577	S517	S457
L1118	L1118	C1058	Y998	C938	G878	D818	S758	G698	S638	N578	G518	I458
A1119	A1119	F1059	D999	A939	T879	I619	I759	E999	E839	E519	S459	S459
E1185	S1120	Y1060	K1000	E940	S880	D820	S760	C700	A640	T580	L520	S460
D1186	D1122	D1062	R1001	N941	A881	A621	V761	D701	C641	S581	S521	S461
Y1187	F1123	L1063	I1002	I942	D882	F822	L762	G702	S642	T582	K522	L462
A1188	D1124	V1064	N1003	E943	Y883	K623	A763	I703	T643	P583	G523	E463
K1189	L1125	A1065	V1004	L944	I884	S824	D764	W704	A644	Q584	I524	Q464
Q1190	K1126	M1066	Y1005	C945	V885	L825	F765	L705	L645	G585	T525	N465
L1191	L1127	T1067	T1006	E946	N886	L826	F766	S706	Y646	Y586	N526	K466
T1192	L1127	K1067	L1007	L947	V887	N827	N767	F707	L647	A587	K527	S467
L1193	S1128	R1068	I1008	R948	L888	T528	I768	R708	A648	N588	A528	F468
K1194	E1129	Q1069	F1009	R949	K889	L829	H769	F709	C649	V589	L529	I469
L1195	R1130	D1070	E1010	V950	E990	N630	R770	Y710	K650	F590	L530	I470
M1196	I1131	Y1071	I1011	V951	R891	G631	F771	G711	F651	A591	E531	G471
G1197	E1132	L1072	V1012	D952	F892	A832	S772	S712	N652	S592	N532	H472
A1198	G1139	L1073	K1013	I953	G893	G633	F773	A713	K653	Q593	K533	H473
V1199	L1140	R1074	S1014	N954	S894	G634	W774	L714	S654	Y594	E534	P474
L1200	C1141	L1075	V1015	V955	F895	V635	S775	L715	E555	S595	E535	L475
P1201	D1142	D1076	D1016	K956	C956	Y636	F776	I716	H656	A596	H336	N476
L1202	S1143	S1077	D1017	L957	H897	D637	T777	I717	I657	E597	K537	T477
S1203	S1144	Q1078	Y1018	N958	S898	S638	P778	R718	K658	E598	L538	H478
D1204	T1145	F1079	T1019	Y859	A899	K639	F779	L719	S859	L599	Y539	D479
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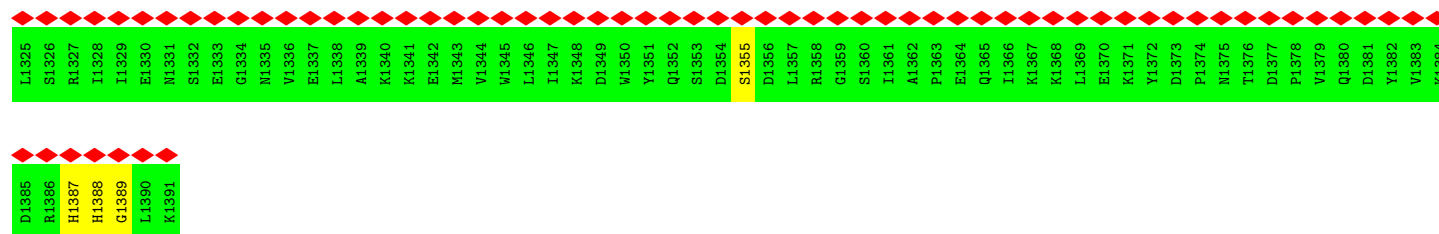


• Molecule 2: Nucleoporin NUP157

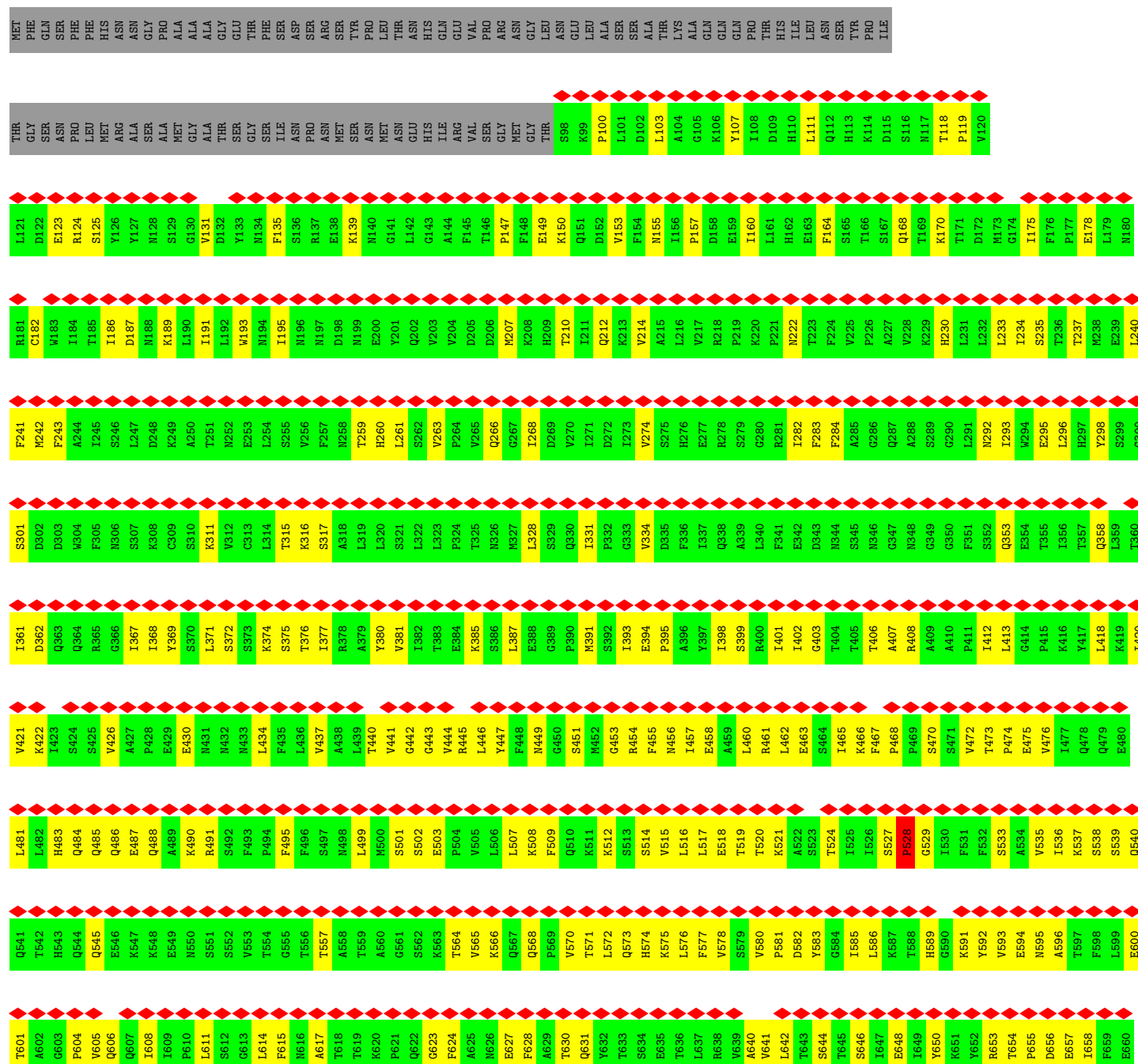
Chain O: 95%
89% 5% • 5%

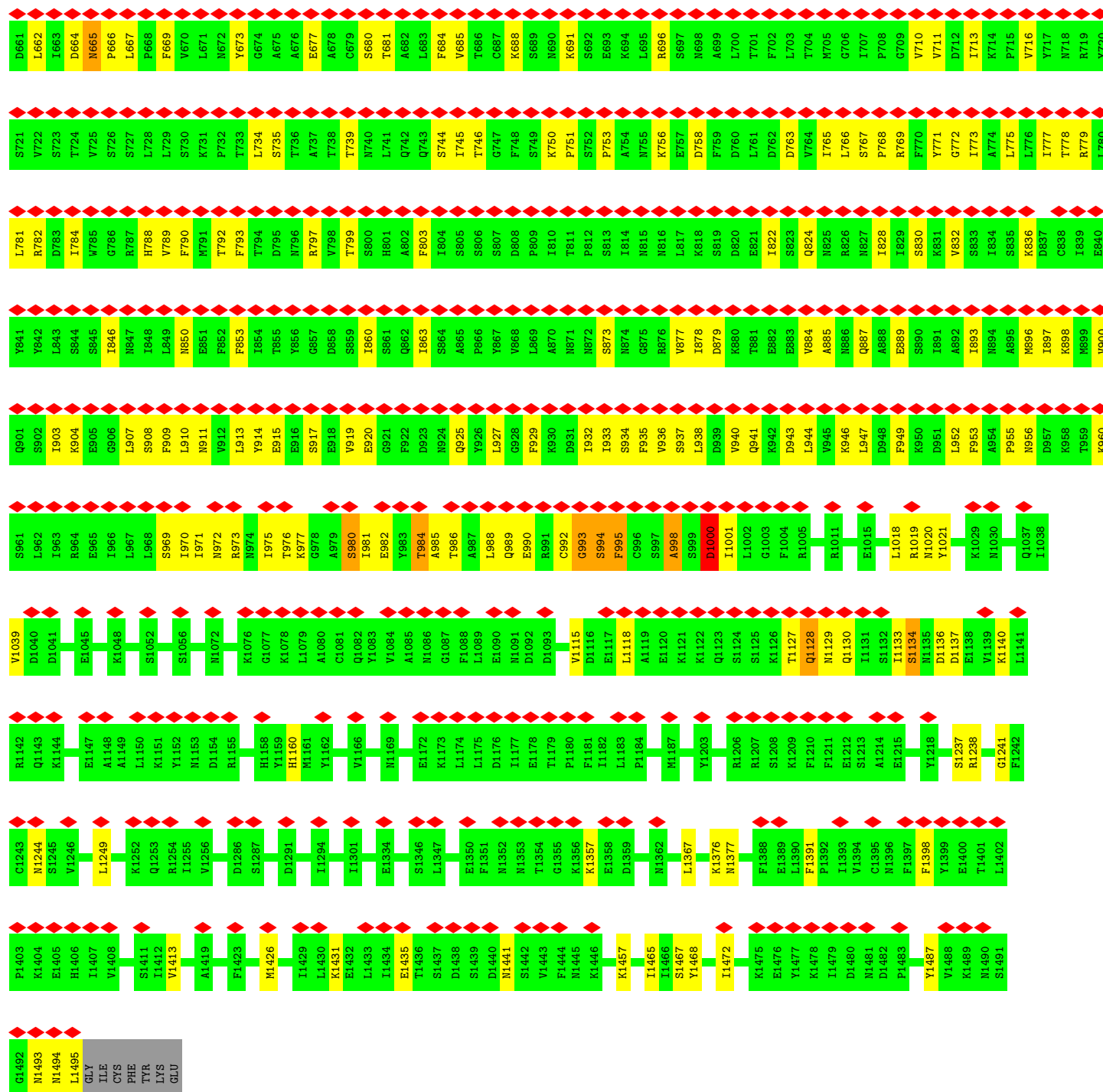


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S1267	N1207	F1147	P1083	Q1023	T963	C903	E942	S783	I723	L663	V603	P543
T1268	D1208	D1148	L1084	S1024	V964	Y904	F844	A784	W724	F664	L604	D544
L1269	C1209	Q1149	K1085	P1025	G965	R905	F845	I785	E725	F665	T605	Y545
I1270	A1210	K1150	E1086	S1026	F966	A906	D846	T786	E726	S666	S606	G546
L1271	D1211	P1151	R1087	I1027	L967	G907	L847	A787	R727	S667	N607	I547
I1272	P1212	A1152	A1088	A1028	L968	E908	K848	S788	V728	G668	A608	L548
L1273	L1213	L1153	E1089	N1029	R969	H909	F849	S789	F729	I669	L609	K549
K1274	D1214	V1154	K1090	I1030	F970	L910	H850	A790	W730	P670	E610	N550
T1275	Y1215	Q1155	S1091	T1031	A971	E911	D851	E791	F731	G671	I611	Y551
T1276	Y1216	L1156	E1093	I1032	D972	A912	L852	S792	K732	V672	Y612	G552
R1277	E1217	S1157	E1094	F1033	K973	F913	F853	I793	R733	V673	C613	K553
D1278	I1218	E1158	T1094	S1034	I974	Q914	T854	A794	A734	E674	Y614	Y554
T1279	L1219	M1159	S1095	P1035	D975	K915	P855	M795	S735	I675	R615	V555
L1280	K1220	I1160	N1096	A1036	K976	F916	N856	N796	K736	K676	T616	E556
V1281	R1221	H1161	L1097	S1037	Q977	E917	A857	A797	T737	P677	P617	N557
V1282	I1222	E1162	L1098	S1038	N978	M918	K858	L798	E738	K678	D618	T558
F1283	F1223	L1163	W1099	L1039	Q979	I919	T859	I799	K739	S679	E619	A559
P1284	K1224	F1164	F1100	K1040	A980	D920	K860	L800	M740	S680	V620	L560
V1285	V1225	D1165	Y1101	I1041	Q981	S921	Q861	L801	D741	R681	F621	L561
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F1287	Q1227	A1167	F1103	V1043	Y983	I923	I863	N803	F743	S683	S623	T563
L1288	F1228	S1168	E1105	Y1044	V984	S924	K864	S804	G744	G684	L624	T564
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L1293	V1233	L1173	L1109	N1049	N989	D929	E869	L809	R749	I689	L629	E569
E1294	I1234	L1174	E1110	S1050	T990	T930	V870	S810	P750	S690	P630	I570
S1295	Q1235	M1175	A1111	M1051	A991	A931	V871	L811	Q751	Q691	F631	V571
F1296	G1236	L1176	A1112	N1052	D992	I932	N872	I812	V752	N692	I632	P572
T1297	E1237	V1177	D1113	R1053	P993	D933	N873	N813	E753	L693	H633	L573
D1298	W1238	R1178	L1115	F1054	K994	L934	N874	V814	Y754	F694	S634	T574
K1299	N1239	M1179	L1116	F1055	K995	Y935	I875	F815	Y755	D695	Y635	R575
S1300	R1240	E1180	A1117	H1056	V996	E936	A876	Y816	L756	K696	G636	S576
S1301	L1241	T1181	A1117	Y1057	F997	R937	S877	E817	S757	S697	L637	F577
A1302	L1242	R1182	L1118	C1058	Y998	C938	G878	D818	S758	G698	S638	N578
D1303	D1243	I1183	A1119	F1059	D999	A939	T879	I819	I759	E699	E639	Y579
D1304	S1244	D1184	S1120	Y1060	K1000	E940	S880	D820	S760	C700	A640	T580
G1305	M1245	E1185	S1121	D1061	R1001	N941	A881	A821	V761	D701	C641	S581
S1306	K1246	D1186	D1122	W1062	I1002	I942	D882	F922	L762	G702	S642	T582
V1307	N1247	Y1187	F1123	L1063	M1003	E943	Y883	K923	A763	I703	T643	T583
C1308	A1248	L1188	D1124	V1064	V1004	L944	I884	S824	D764	V704	A644	Q584
S1309	P1249	K1189	L1125	A1065	Y1005	C945	V885	L825	A644	L705	G585	G584
M1310	S1250	Q1190	K1126	N1066	T1006	E946	N886	L826	F766	S706	L645	S586
F1311	P1251	L1191	L1127	M1067	L1007	E947	V887	L827	N767	P707	Y646	Y586
L1312	D1252	T1192	S1128	R1068	I1008	R948	L888	T828	I768	R708	L647	A587
L1313	V1253	L1193	E1129	Q1069	F1009	R949	K889	L829	H769	F709	C649	N588
A1314	G1254	K1194	R1130	D1070	E1010	V950	E890	M830	R770	Y710	K650	F590
G1315	S1255	L1195	I1131	Y1071	I1011	R951	R891	G831	P771	G711	F651	A591
V1316	V1256	M1196	E1132	L1072	V1012	D952	F892	A832	S772	S712	N652	S592
S1317	G1257	G1197	L1073	R1074	K1013	I953	G893	G833	F773	A713	K653	Q593
H1318	Q1258	R1198	L1074	R1075	S1014	M954	S894	G834	V774	L714	S654	Y594
L1319	E1259	V1199	D1076	L1075	V1015	V955	F895	V835	S775	L715	E655	S595
K1320	S1260	L1200	D1077	D1076	V1016	K956	C966	Y836	F776	I716	H656	A596
L1321	F1261	P1201	S1077	S1077	D1017	L957	H897	D837	V777	T717	I657	E597
Y1322	L1262	L1202	Q1078	Q1078	Y1018	N958	S988	S938	P778	R718	K658	P598
S1323	S1263	S1203	F1079	F1079	T1019	Y959	A899	K839	F779	L719	S659	L599
L1324	S1264	D1204	V1080	V1080	S1020	Q960	D900	T840	K780	F720	V600	Z600

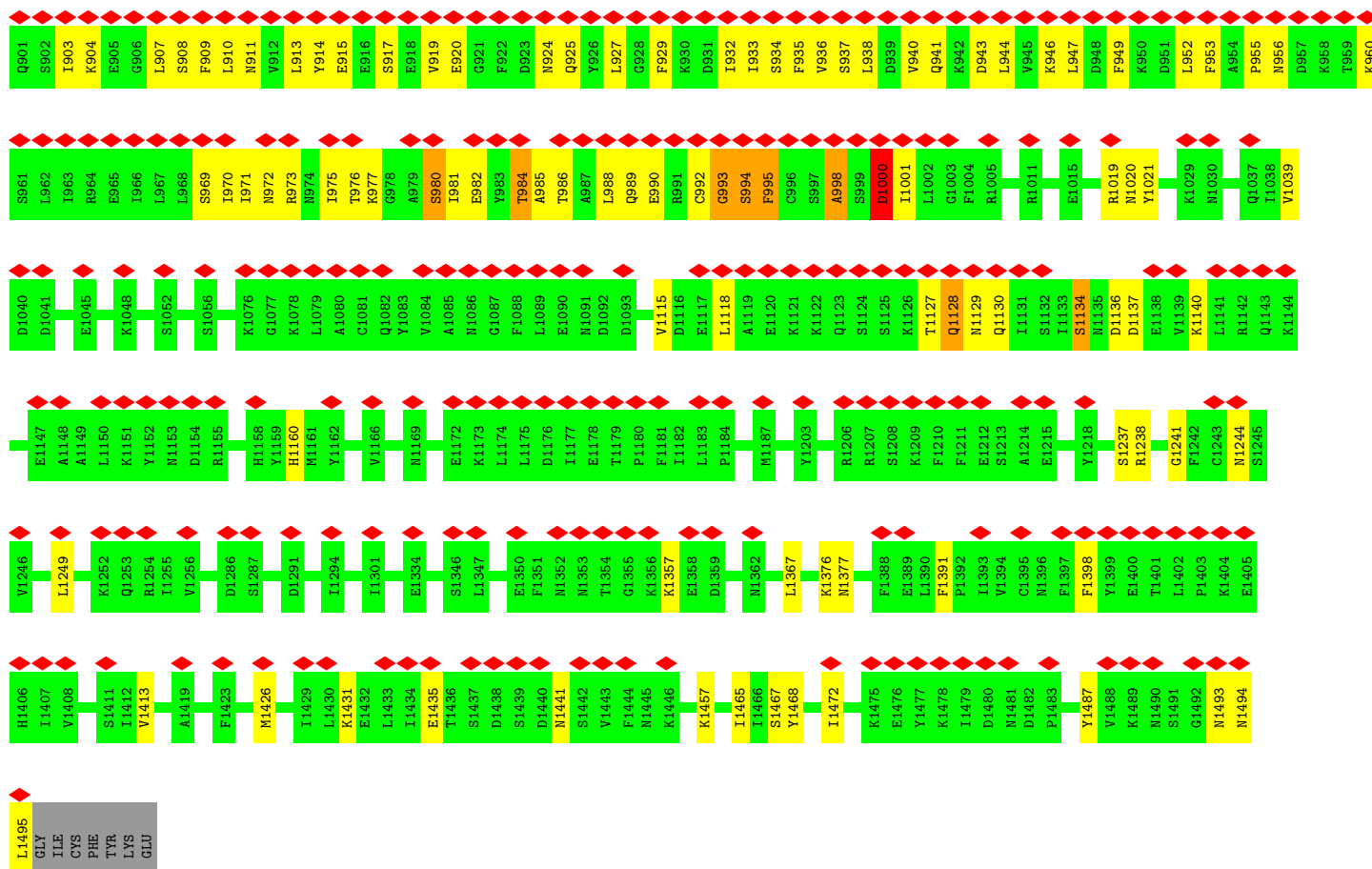


• Molecule 3: Nucleoporin NUP170

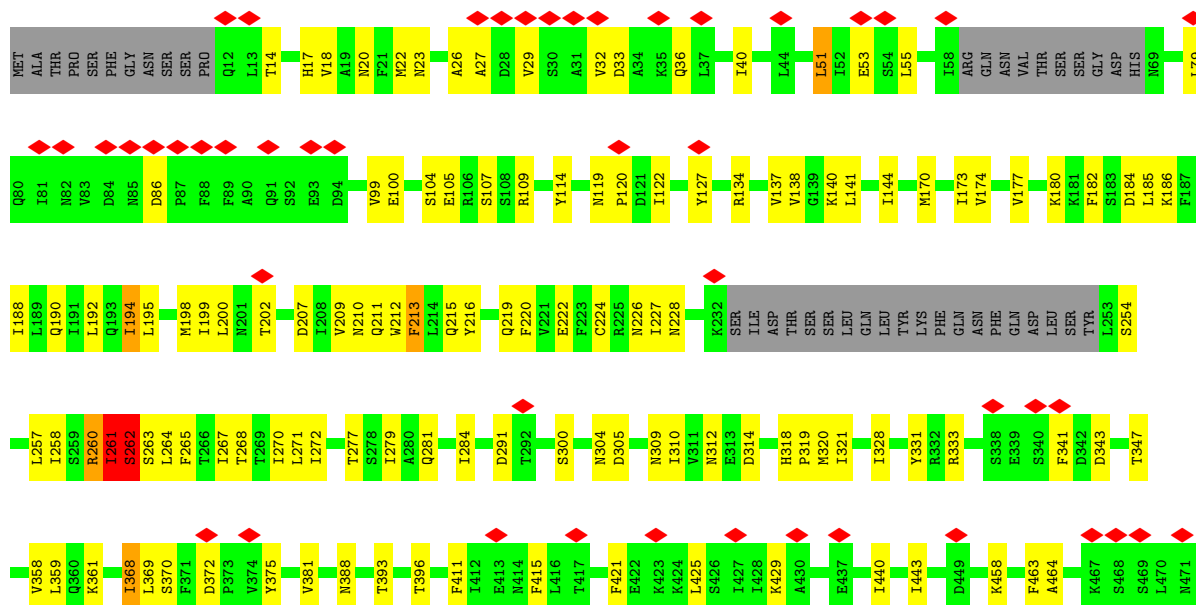


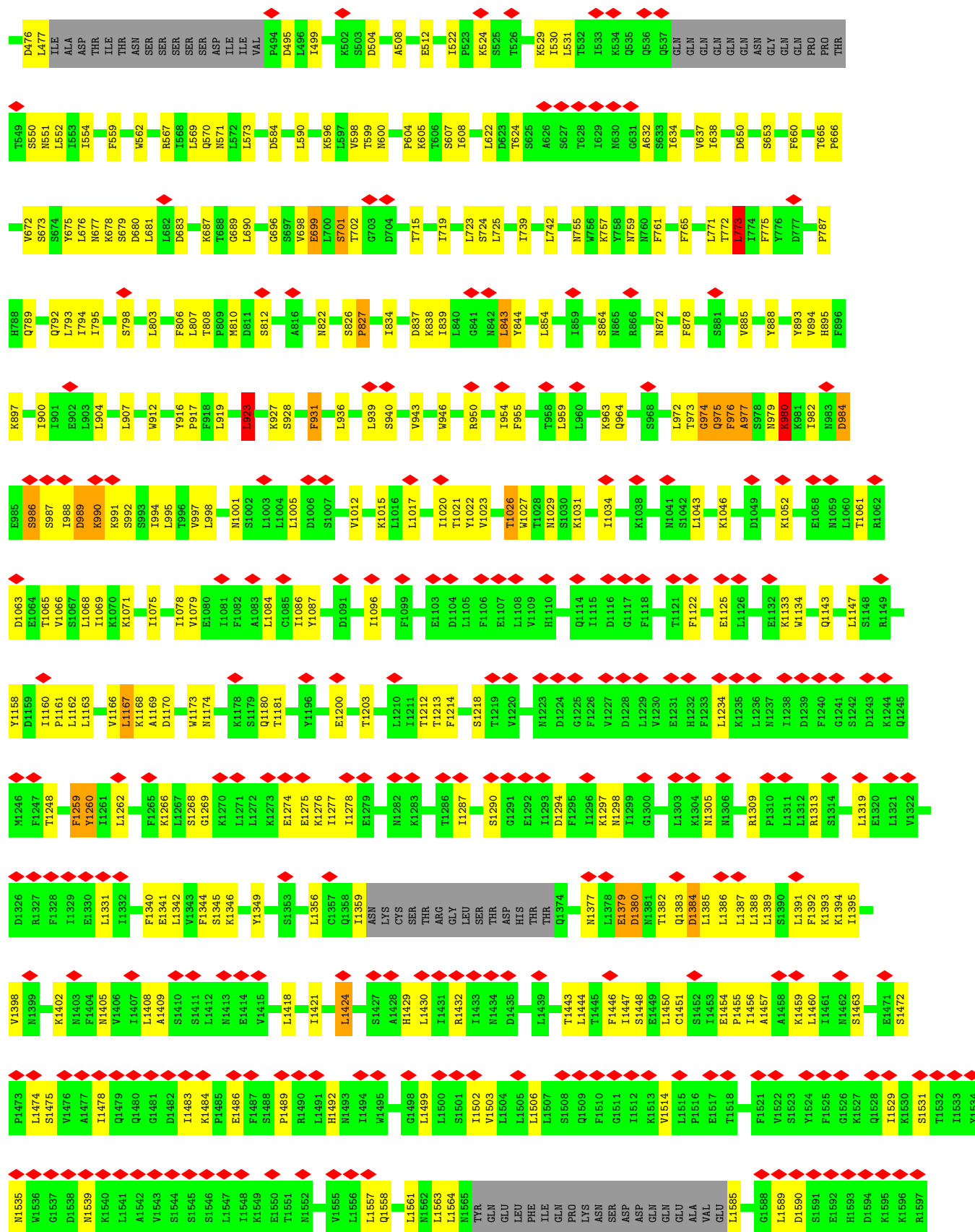


THR	GLY	SER	ASN	PRO	LEU	MET	ARG	ALA	SER	ALA	SER	MET	GLY	ALA	THR	SER	GLY	SER	ILE	ASN	PRO	ASN	MET	SER	ASN	GLU	HIS	ILE	ARG	VAL	SER	GLY	MET	GLY	THR	S98	K99	P100	L101	D102	L103	A104	G105	K106	Y107	I108	D109	H110	L111	Q112	H113	K114	D115	S116	N117	T118	P119	V120																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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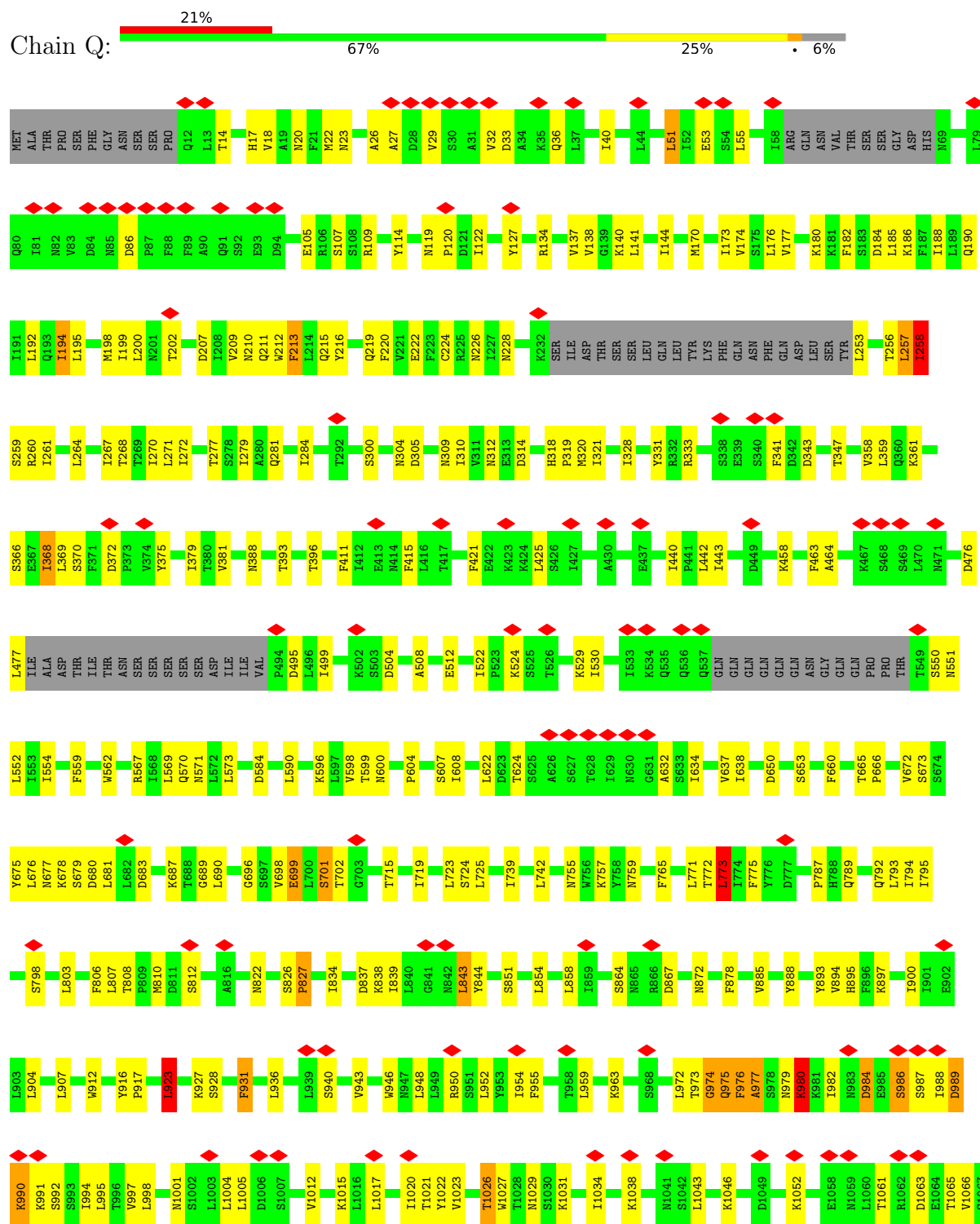
• Molecule 4: Nucleoporin NUP188

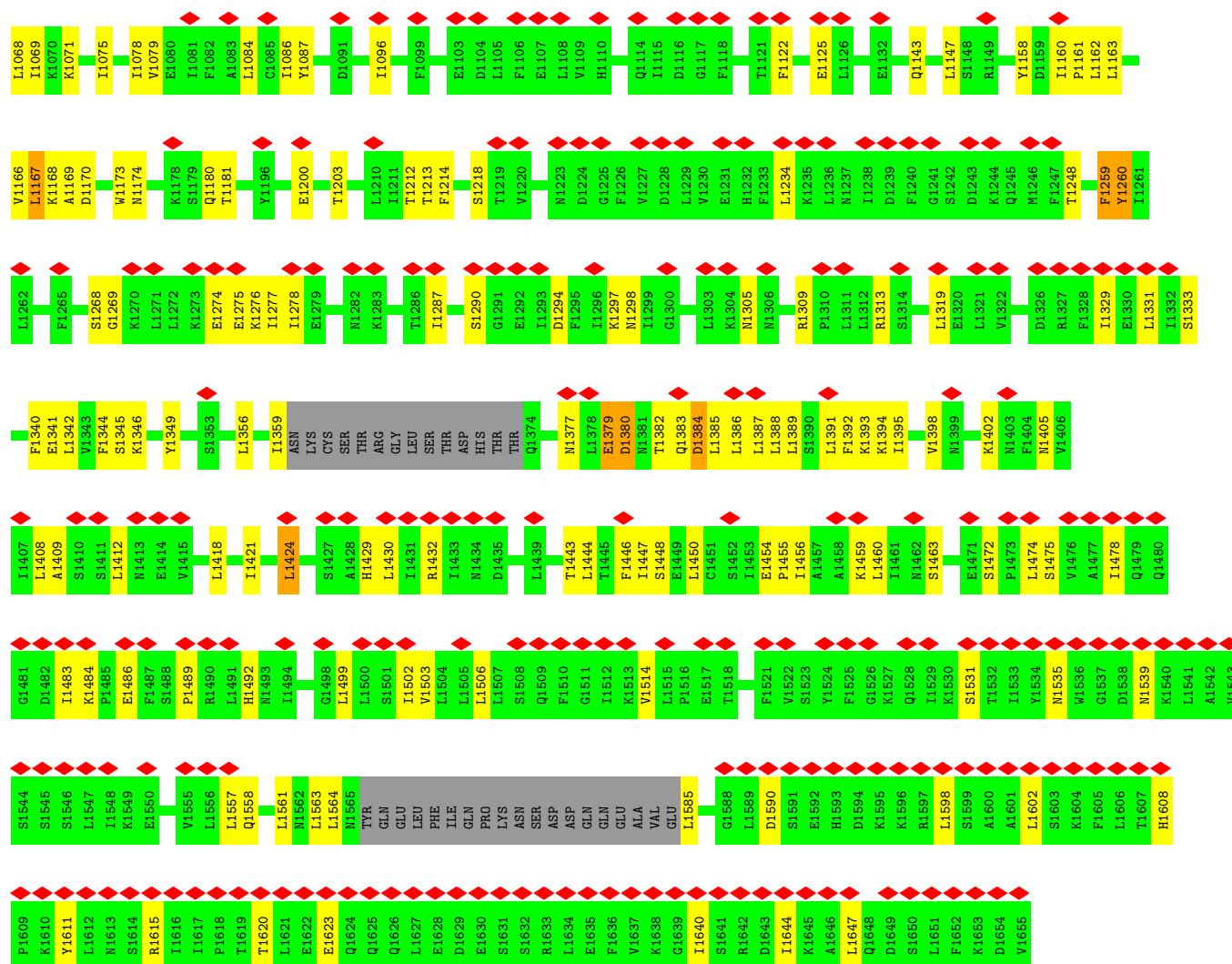




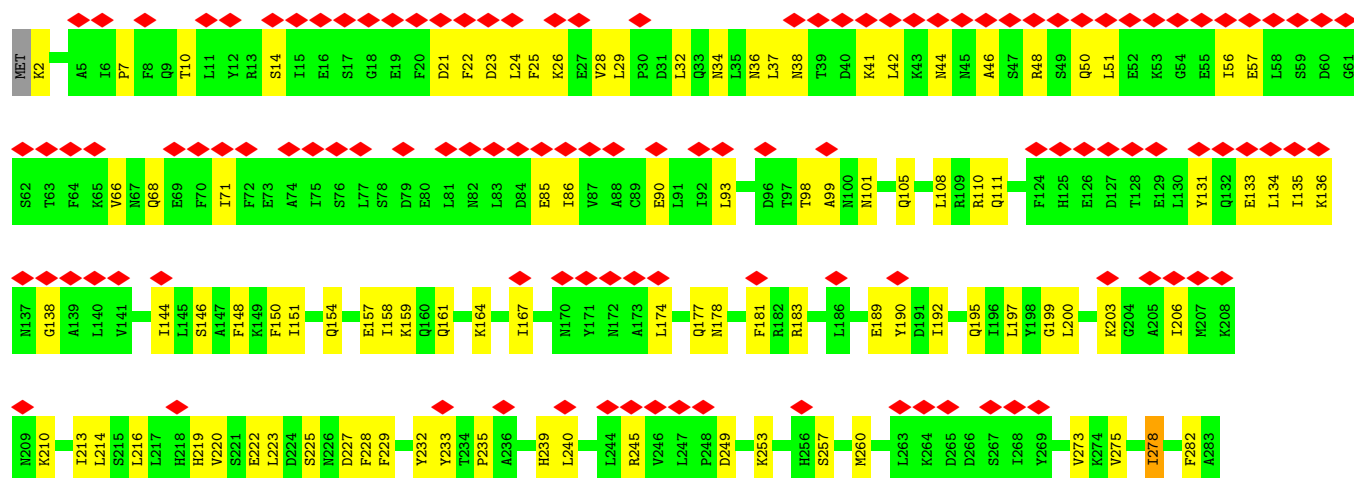


● Molecule 4: Nucleoporin NUP188

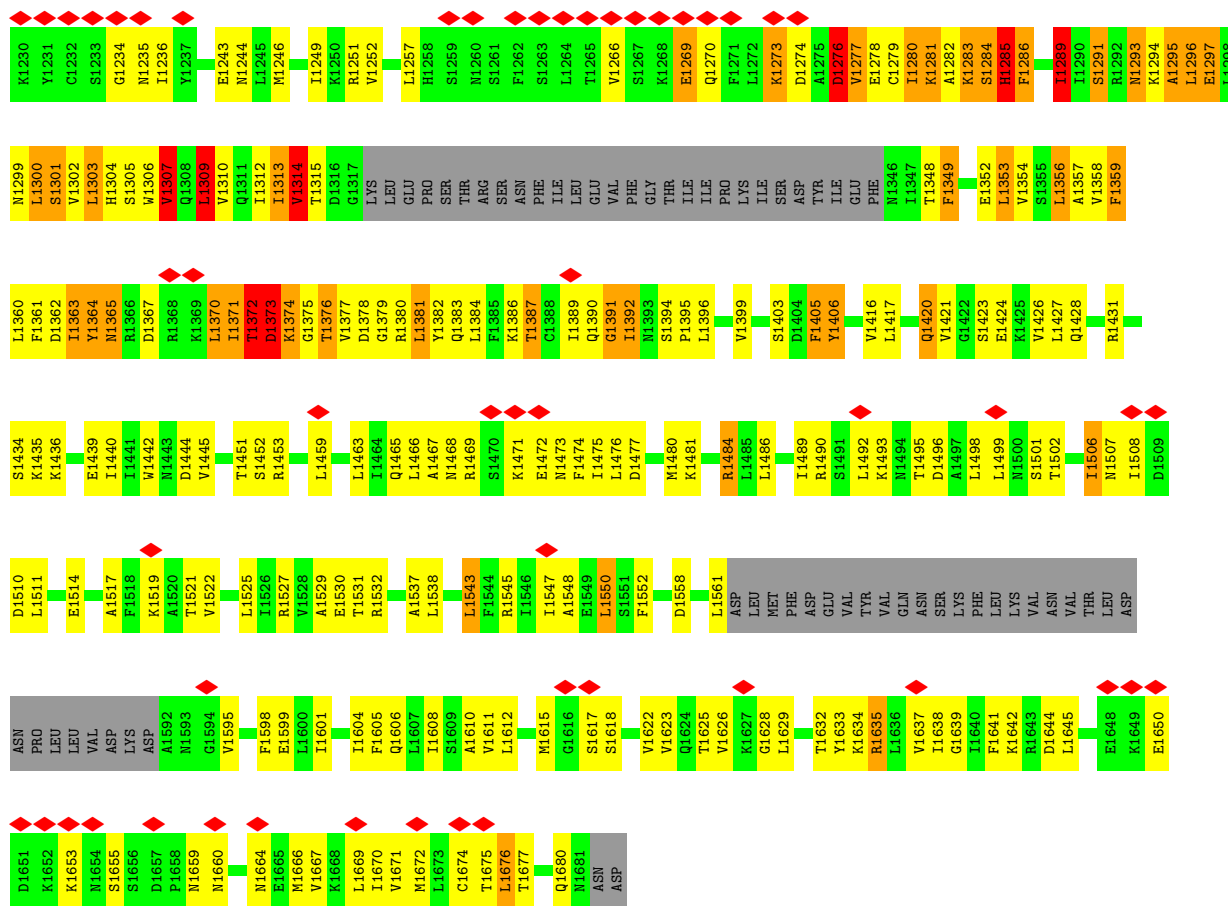




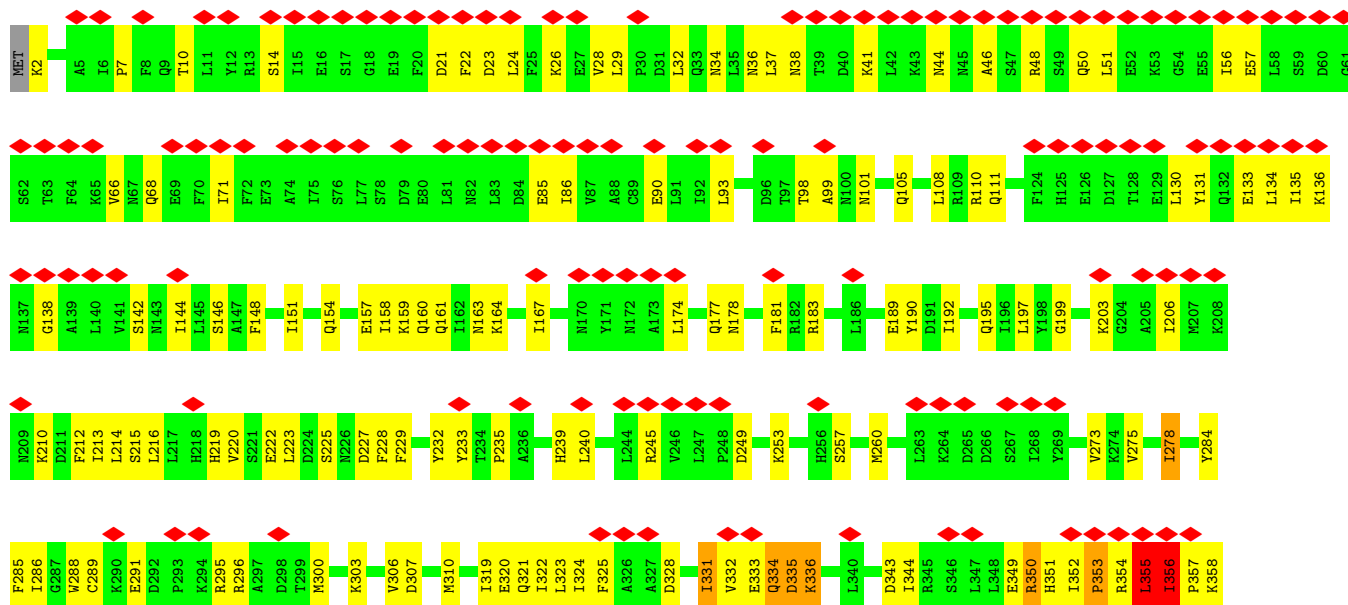
• Molecule 5: Nucleoporin NUP192

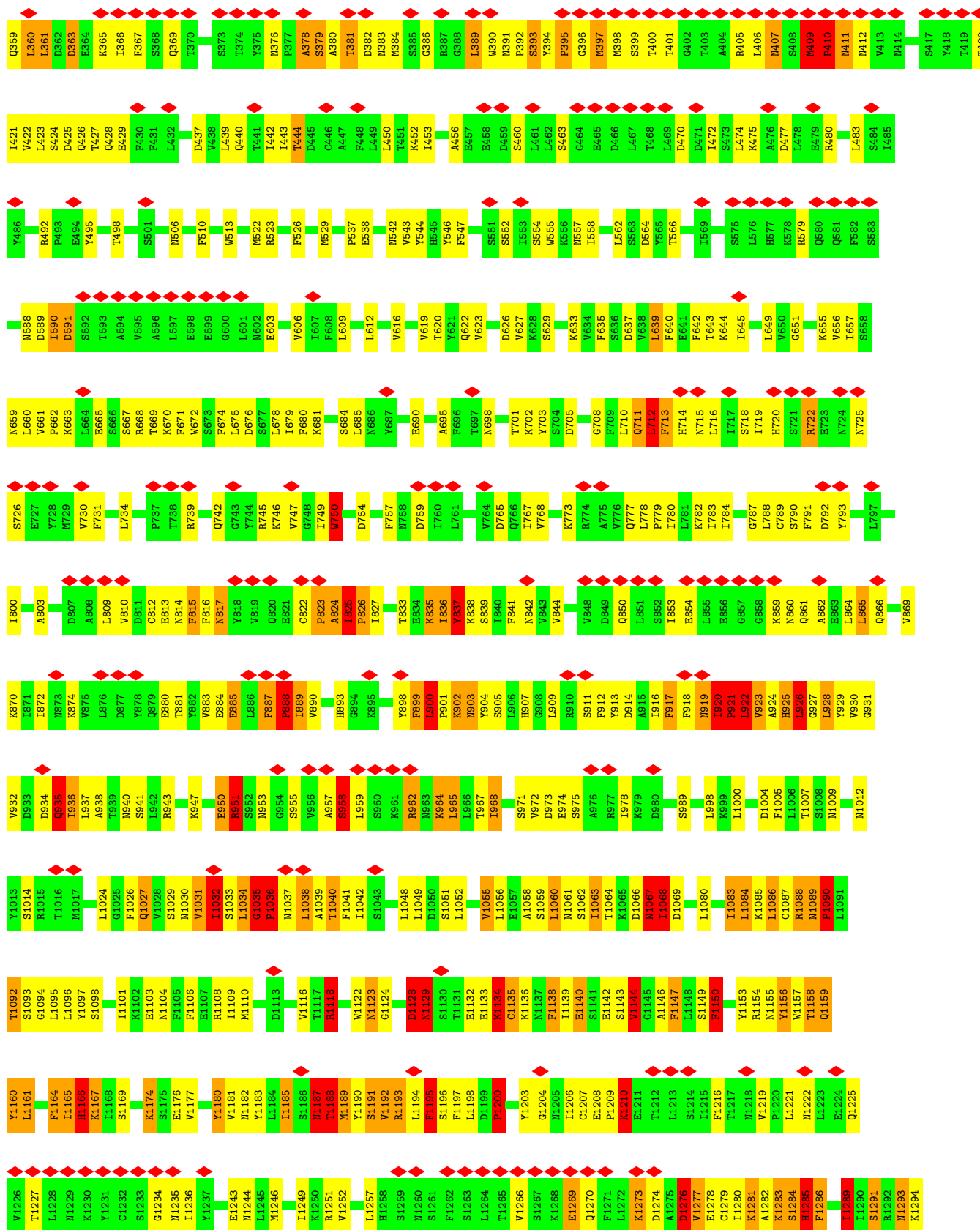




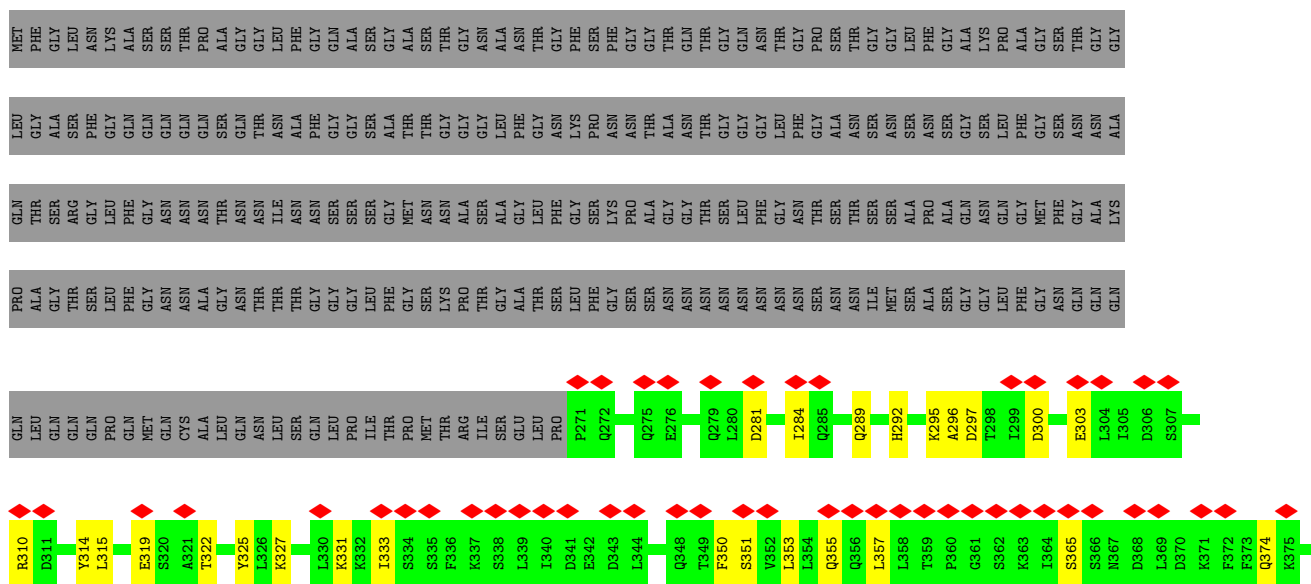


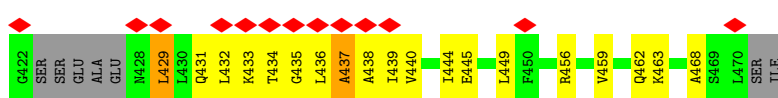
• Molecule 5: Nucleoporin NUP192





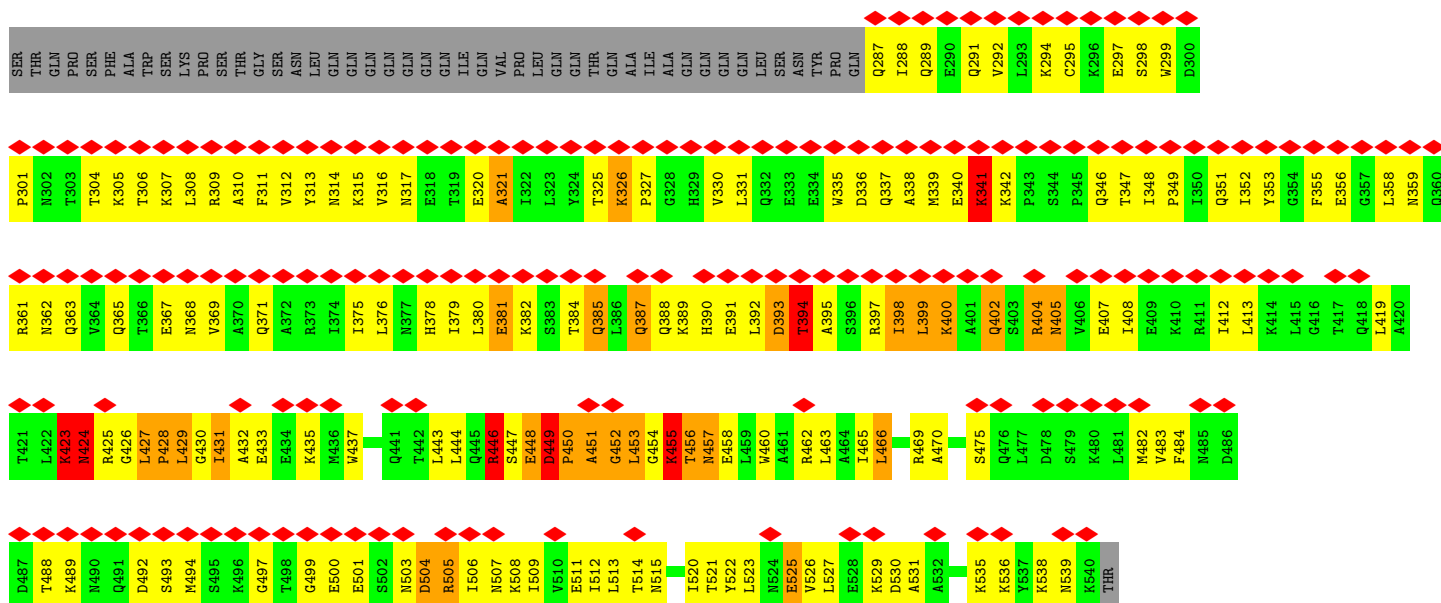
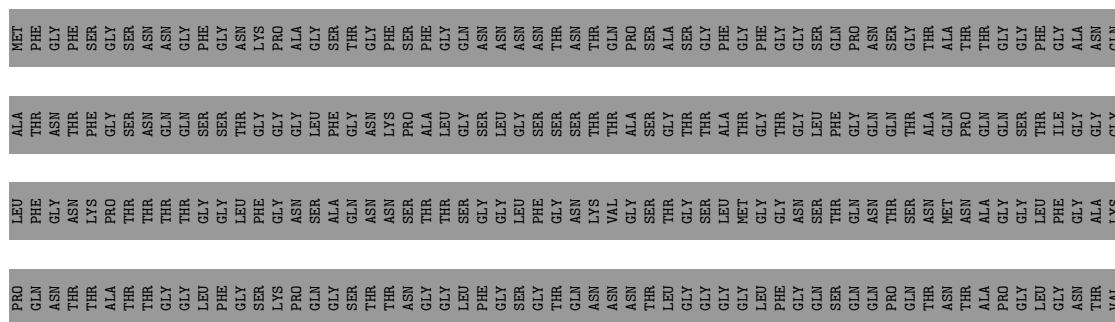
Chain J:



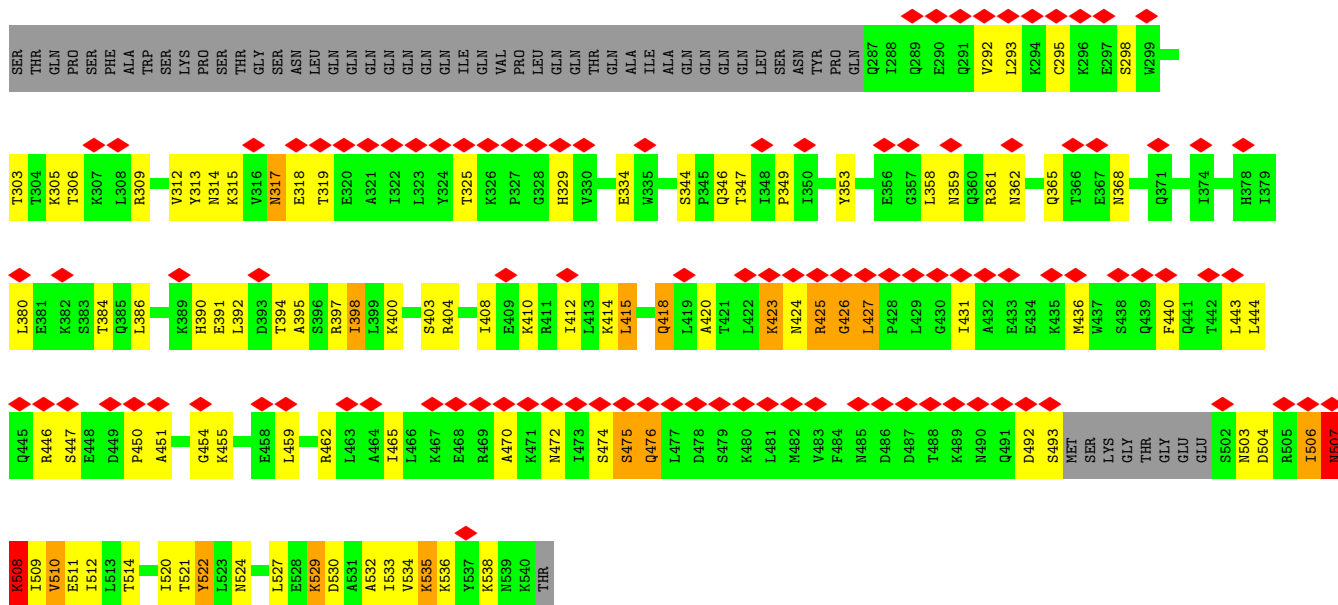


- Molecule 7: Nucleoporin NUP57





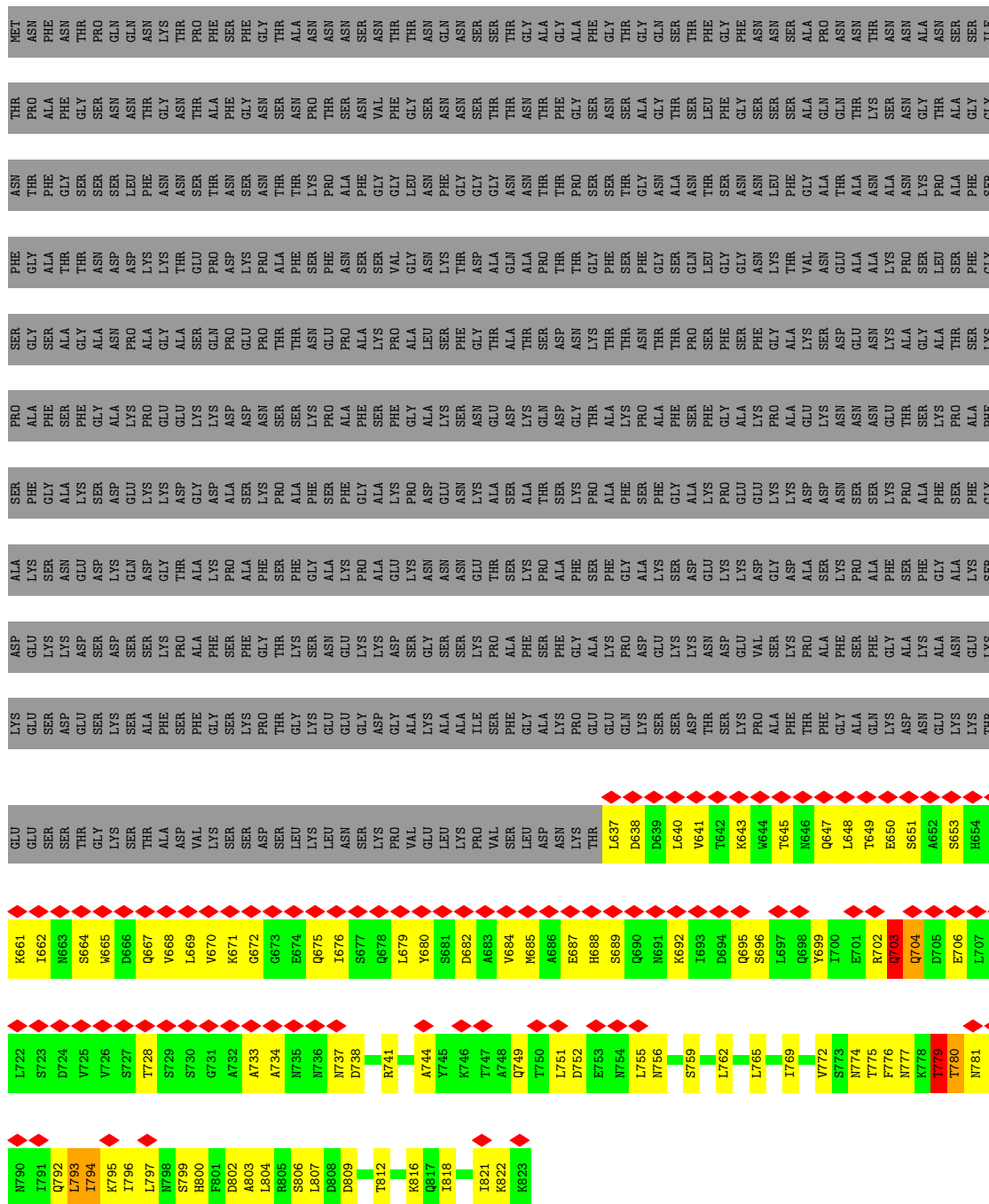
Chain T:



Chain W:

[illegible]

- Molecule 8: Nucleoporin NSP1



- Molecule 8: Nucleoporin NSP1

E789	L722	K661	GLU	LYS	ASP	ALA	SER	SER	GLY
N790	S723	I662	GLU	SER	GLU	LYS	SER	PHE	THR
I791	D724	N663	GLU	ASP	GLU	LYS	ASN	SER	GLY
L792	V725	S664	THR	THR	ASP	ASP	GLU	LYS	THR
L793	V726	S665	GLY	SER	SER	SER	ASP	SER	GLY
I794	S727	D666	LYS	LYS	ASP	ASP	LYS	ASP	ALA
K795	T728	Q667	SER	SER	SER	SER	GLN	GLU	ASN
I796	T729	V668	THR	ALA	SER	LYS	GLY	LYS	GLY
N797	S730	L669	ALA	PHE	PRO	LYS	THR	ASP	ALA
S799	G731	V670	ASP	PHE	ALA	ALA	ALA	GLY	LYS
H800	G732	K671	VAL	GLY	PHE	LYS	LYS	ASP	GLY
F801	A733	G672	SER	LYS	PHE	ALA	PHE	ASP	GLY
D802	A734	G673	ASP	THR	GLY	THR	SER	PRO	THR
A803	T735	E674	SER	GLY	LYS	LYS	PHE	SER	THR
R805	N736	Q675	LEU	LYS	SER	SER	GLY	LYS	THR
S806	N737	I676	LYS	LYS	GLY	ALA	ALA	ASN	THR
L807	D738	S677	ASN	GLU	GLY	PRO	PHE	ALA	THR
D808	T739	S678	SER	GLY	LYS	ALA	ALA	SER	GLY
D809	R741	Q679	LYS	ASP	LYS	ALA	LYS	LYS	GLY
T812		L679	PRO	GLY	ASP	GLU	GLY	VAL	GLY
K816	A744	V680	VAL	ALA	SER	LYS	LYS	GLY	LEU
G817	V745	I681	GLU	LYS	GLY	ASN	ASN	ALA	ASN
I818	K746	S681	LEU	ALA	SER	ASN	GLY	LYS	PHE
	T747	D682	LYS	LYS	SER	ASN	LYS	THR	GLY
I821	A748	A683	PRO	ILE	LYS	GLU	LYS	GLY	GLY
K822	Q749	V684	VAL	SER	PRO	THR	ALA	ALA	GLY
K823	T750	A686	SER	PHE	LYS	LYS	GLY	GLY	GLY
	L751	E687	ASN	LYS	PHE	ALA	SER	THR	THR
	D752	H688	ASP	LYS	GLY	PHE	GLY	THR	PRO
	E753	S689	LYS	GLU	ALA	LYS	THR	GLY	SER
	N754	Q690	THR	GLU	ALA	LYS	ALA	THR	SER
	N756	N691	GLN	LYS	PRO	GLY	GLY	THR	GLY
	S759	K692	SER	SER	LYS	LYS	LYS	THR	ASN
	L762	D694	ASP	ASP	ASN	ASP	ASP	PRO	ASN
	L765	S696	THR	THR	LYS	GLU	LYS	PHE	ASN
	I766	L697	LYS	ALA	GLU	VAL	GLY	GLY	ASN
	I769	Q698	PHE	PHE	SER	GLY	LYS	ALA	LEU
	V772	V699	THR	THR	PRO	ALA	ASP	GLY	GLN
S773	T773	I700	PHE	PHE	ASP	SER	LYS	PHE	THR
N774	T775	E701	GLY	GLY	PHE	LYS	LYS	GLY	ASN
T775	T776	R702	ALA	ALA	SER	PRO	LYS	ASN	ASN
T777	T777	Q703	GLN	GLN	PHE	ALA	LYS	GLY	LEU
K778	T778	Q704	LYS	LYS	GLY	PHE	ALA	LYS	PHE
T779	T779	D705	ASN	ASN	ALA	SER	LYS	VAL	GLY
L780	T780	E706	GLY	GLY	GLY	PHE	ALA	GLY	GLY
N781	T781	L707	ASP	ASP	LYS	THR	ALA	LYS	ALA
I782	D783	F655	ASN	ASN	LYS	SER	LYS	GLY	ALA
D783	I784	Q657	GLU	GLU	ALA	PHE	PHE	THR	ALA
N785	T785	V658	LYS	LYS	GLU	LYS	LYS	SER	ALA
N786	T786	T659	THR	THR	LYS	LYS	PHE	THR	PHE
E787	D788	K660	SER	SER	LYS	GLY	GLY	GLY	GLY

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 ($\text{\AA}$)	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 ($\text{\AA}$)	1.336, 1.336, 1.336	Depositor

5 Model quality

5.1 Standard geometry

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	0.44	1/5810 (0.0%)	0.81	25/7863 (0.3%)
1	M	0.44	1/5787 (0.0%)	0.79	23/7832 (0.3%)
1	N	0.57	0/5852	1.08	26/7931 (0.3%)
1	Z	0.58	0/5853	1.11	35/7931 (0.4%)
2	C	0.75	1/10658 (0.0%)	1.19	10/14443 (0.1%)
2	O	0.75	1/10658 (0.0%)	1.19	12/14443 (0.1%)
3	D	0.48	0/11182	0.83	9/15160 (0.1%)
3	P	0.49	0/11171	0.83	9/15145 (0.1%)
4	E	0.43	1/12583 (0.0%)	0.80	21/17054 (0.1%)
4	Q	0.43	1/12583 (0.0%)	0.79	19/17054 (0.1%)
5	F	0.76	16/12443 (0.1%)	1.57	244/16898 (1.4%)
5	R	0.77	16/12443 (0.1%)	1.57	243/16898 (1.4%)
6	G	0.38	0/1553	0.82	6/2104 (0.3%)
6	J	0.68	0/1509	1.45	35/2042 (1.7%)
6	S	0.38	0/1549	0.83	6/2100 (0.3%)
6	V	0.67	1/1509 (0.1%)	1.42	28/2042 (1.4%)
7	H	0.95	6/1832 (0.3%)	1.35	27/2482 (1.1%)
7	K	0.79	2/1829 (0.1%)	1.51	33/2485 (1.3%)
7	T	0.95	5/1832 (0.3%)	1.35	27/2482 (1.1%)
7	W	0.90	3/1826 (0.2%)	1.74	46/2481 (1.9%)
8	I	0.84	7/1431 (0.5%)	1.35	24/1940 (1.2%)
8	L	0.49	0/1378	1.02	5/1873 (0.3%)
8	U	0.84	6/1431 (0.4%)	1.35	25/1940 (1.3%)
8	X	0.49	0/1378	1.02	7/1873 (0.4%)
All	All	0.62	68/136080 (0.0%)	1.14	945/184496 (0.5%)

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 (68) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	H	427	LEU	C-N	23.26	1.53	1.33
7	T	427	LEU	C-N	23.15	1.53	1.33
5	F	1235	ASN	C-N	14.69	1.53	1.33
5	R	1235	ASN	C-N	14.62	1.53	1.33
7	W	326	LYS	C-N	13.71	1.50	1.33
7	K	326	LYS	C-N	13.69	1.50	1.33
7	T	425	ARG	C-N	10.79	1.49	1.33
7	H	425	ARG	C-N	10.70	1.49	1.33
5	F	1312	ILE	C-O	-9.69	1.14	1.24
5	R	1312	ILE	C-O	-9.54	1.14	1.24
5	F	750	TRP	C-N	8.40	1.53	1.33
5	R	750	TRP	C-N	8.40	1.53	1.33
8	I	737	ASN	N-CA	7.51	1.55	1.46
8	U	737	ASN	N-CA	7.49	1.55	1.46
5	R	1310	VAL	C-O	-7.18	1.14	1.24
5	F	1310	VAL	C-O	-7.18	1.14	1.24
5	F	1394	SER	C-N	7.06	1.50	1.33
5	R	1394	SER	C-N	7.01	1.50	1.33
8	U	737	ASN	CA-C	6.99	1.61	1.52
5	R	1359	PHE	C-O	-6.94	1.16	1.24
8	I	737	ASN	CA-C	6.90	1.60	1.52
5	F	409	MET	C-N	6.88	1.50	1.33
7	W	450	PRO	C-O	-6.88	1.15	1.24
5	R	409	MET	C-N	6.86	1.50	1.33
5	F	1359	PHE	C-O	-6.84	1.16	1.24
7	K	450	PRO	C-O	-6.80	1.15	1.24
5	R	889	ILE	C-O	-6.51	1.16	1.24
5	F	1313	ILE	C-O	-6.50	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	889	ILE	C-O	-6.49	1.16	1.24
5	R	1313	ILE	C-O	-6.37	1.16	1.24
8	I	737	ASN	C-N	6.34	1.42	1.33
8	U	737	ASN	C-N	6.31	1.42	1.33
5	F	1154	ARG	C-O	-6.17	1.16	1.24
5	F	356	ILE	C-N	6.17	1.48	1.33
5	R	356	ILE	C-N	6.16	1.48	1.33
5	R	1154	ARG	C-O	-6.06	1.17	1.24
5	F	1314	VAL	CA-C	6.04	1.60	1.52
5	R	1314	VAL	N-CA	5.95	1.53	1.46
5	F	1314	VAL	N-CA	5.94	1.53	1.46
5	R	1314	VAL	CA-C	5.94	1.60	1.52
7	H	506	ILE	N-CA	5.70	1.53	1.46
8	U	736	ASN	C-N	5.65	1.40	1.33
6	V	398	VAL	C-O	5.63	1.30	1.24
8	I	736	ASN	C-N	5.63	1.40	1.33
7	W	510	VAL	C-O	-5.62	1.17	1.24
4	Q	1260	TYR	C-O	-5.56	1.16	1.24
7	T	506	ILE	N-CA	5.56	1.53	1.46
7	T	507	ASN	N-CA	5.56	1.53	1.46
4	E	1260	TYR	C-O	-5.48	1.17	1.24
5	R	1309	LEU	C-O	-5.46	1.17	1.24
7	H	507	ASN	N-CA	5.46	1.53	1.46
5	F	1161	LEU	C-O	-5.45	1.17	1.24
5	R	1164	PHE	C-O	-5.43	1.17	1.24
5	R	1161	LEU	C-O	-5.43	1.17	1.24
5	F	1164	PHE	C-O	-5.41	1.17	1.24
8	I	736	ASN	CA-C	5.33	1.59	1.52
5	F	1309	LEU	C-O	-5.28	1.17	1.24
8	U	736	ASN	CA-C	5.28	1.59	1.52
1	M	113	ILE	C-O	-5.23	1.17	1.24
1	A	113	ILE	C-O	-5.14	1.17	1.24
8	I	735	ASN	N-CA	5.13	1.52	1.45
2	C	454	PRO	CA-C	5.12	1.54	1.51
8	U	735	ASN	N-CA	5.12	1.52	1.45
2	O	454	PRO	CA-C	5.10	1.54	1.51
8	I	736	ASN	N-CA	5.06	1.52	1.46
7	H	508	LYS	N-CA	5.05	1.52	1.46
7	T	508	LYS	N-CA	5.00	1.52	1.46
7	H	509	ILE	N-CA	5.00	1.52	1.46

All (945) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1090	PRO	CA-N-CD	-38.14	58.60	112.00
5	R	1090	PRO	CA-N-CD	-38.10	58.66	112.00
5	F	356	ILE	CA-C-N	20.01	144.86	119.84
5	F	356	ILE	C-N-CA	20.01	144.86	119.84
5	R	356	ILE	CA-C-N	20.00	144.84	119.84
5	R	356	ILE	C-N-CA	20.00	144.84	119.84
7	W	326	LYS	CA-C-N	17.27	136.79	120.21
7	W	326	LYS	C-N-CA	17.27	136.79	120.21
7	K	326	LYS	CA-C-N	17.23	136.75	120.21
7	K	326	LYS	C-N-CA	17.23	136.75	120.21
5	F	1394	SER	CA-C-N	15.18	138.82	119.84
5	F	1394	SER	C-N-CA	15.18	138.82	119.84
5	R	1394	SER	CA-C-N	15.17	138.80	119.84
5	R	1394	SER	C-N-CA	15.17	138.80	119.84
7	T	425	ARG	CA-C-N	-13.93	94.11	121.41
7	T	425	ARG	C-N-CA	-13.93	94.11	121.41
7	H	425	ARG	CA-C-N	-13.89	94.18	121.41
7	H	425	ARG	C-N-CA	-13.89	94.18	121.41
5	R	409	MET	CA-C-N	13.71	136.97	119.84
5	R	409	MET	C-N-CA	13.71	136.97	119.84
5	F	409	MET	CA-C-N	13.70	136.97	119.84
5	F	409	MET	C-N-CA	13.70	136.97	119.84
5	F	644	LYS	CA-C-N	12.81	140.15	122.34
5	F	644	LYS	C-N-CA	12.81	140.15	122.34
6	V	388	CYS	CB-CA-C	-12.78	85.19	109.72
5	R	644	LYS	CA-C-N	12.76	140.08	122.34
5	R	644	LYS	C-N-CA	12.76	140.08	122.34
6	V	370	ASP	CA-CB-CG	12.50	125.10	112.60
6	J	370	ASP	CA-CB-CG	12.49	125.09	112.60
5	R	1036	PRO	N-CA-CB	12.49	116.36	103.25
5	F	1036	PRO	N-CA-CB	12.38	116.25	103.25
5	F	1035	GLY	CA-C-N	11.94	134.77	119.84
5	F	1035	GLY	C-N-CA	11.94	134.77	119.84
5	R	1035	GLY	CA-C-N	11.85	134.65	119.84
5	R	1035	GLY	C-N-CA	11.85	134.65	119.84
5	F	837	TYR	CB-CA-C	11.59	129.22	110.90
5	F	1068	ILE	N-CA-C	-11.56	88.96	106.42
5	R	837	TYR	CB-CA-C	11.55	129.16	110.90
5	R	1068	ILE	N-CA-C	-11.55	88.97	106.42
5	R	1234	GLY	O-C-N	11.47	133.67	122.77
5	F	1234	GLY	O-C-N	11.45	133.65	122.77
1	Z	27	GLU	CB-CA-C	-11.40	92.99	110.88
5	F	823	PRO	N-CA-C	11.26	135.67	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	823	PRO	N-CA-C	11.26	135.67	112.47
6	G	424	SER	N-CA-C	-10.84	99.44	111.14
6	S	424	SER	N-CA-C	-10.78	99.50	111.14
5	R	833	THR	CA-C-N	10.66	135.87	120.95
5	R	833	THR	C-N-CA	10.66	135.87	120.95
5	F	833	THR	CA-C-N	10.63	135.83	120.95
5	F	833	THR	C-N-CA	10.63	135.83	120.95
7	W	423	LYS	CA-C-N	10.62	137.17	122.19
7	W	423	LYS	C-N-CA	10.62	137.17	122.19
7	K	423	LYS	CA-C-N	10.59	137.12	122.19
7	K	423	LYS	C-N-CA	10.59	137.12	122.19
5	F	803	ALA	CA-C-N	-10.51	108.11	122.30
5	F	803	ALA	C-N-CA	-10.51	108.11	122.30
7	K	451	ALA	N-CA-C	10.43	125.32	112.59
5	R	803	ALA	CA-C-N	-10.43	108.22	122.30
5	R	803	ALA	C-N-CA	-10.43	108.22	122.30
7	W	451	ALA	N-CA-C	10.40	125.27	112.59
1	N	772	PRO	CA-N-CD	-10.39	97.45	112.00
1	Z	772	PRO	CA-N-CD	-10.37	97.48	112.00
7	K	450	PRO	N-CA-C	10.23	133.55	112.47
7	W	450	PRO	N-CA-C	10.18	133.44	112.47
4	E	262	SER	CA-C-N	10.10	140.83	121.54
4	E	262	SER	C-N-CA	10.10	140.83	121.54
7	H	476	GLN	CB-CA-C	10.09	126.92	111.18
7	T	476	GLN	CB-CA-C	10.08	126.91	111.18
5	R	837	TYR	CA-C-O	-10.04	110.36	120.70
1	M	113	ILE	CA-C-O	-10.01	110.00	120.71
5	F	837	TYR	CA-C-O	-10.00	110.40	120.70
1	A	113	ILE	CA-C-O	-9.99	110.02	120.71
5	R	1067	ASN	CB-CA-C	-9.94	90.64	110.42
5	F	1067	ASN	CB-CA-C	-9.94	90.65	110.42
7	W	504	ASP	O-C-N	9.91	135.77	122.59
5	R	750	TRP	O-C-N	-9.90	109.94	121.32
5	F	750	TRP	O-C-N	-9.87	109.97	121.32
8	I	800	HIS	CB-CA-C	9.83	130.53	109.99
5	R	1391	GLY	CA-C-N	9.81	139.62	121.97
5	R	1391	GLY	C-N-CA	9.81	139.62	121.97
5	F	1391	GLY	CA-C-N	9.80	139.62	121.97
5	F	1391	GLY	C-N-CA	9.80	139.62	121.97
8	U	800	HIS	CB-CA-C	9.79	130.44	109.99
7	W	504	ASP	CA-C-N	9.60	139.88	121.54
7	W	504	ASP	C-N-CA	9.60	139.88	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	30	ASP	CB-CA-C	9.55	127.36	110.37
5	R	1164	PHE	CB-CA-C	-9.52	96.30	110.96
5	F	1164	PHE	CB-CA-C	-9.49	96.35	110.96
5	R	711	GLN	CB-CA-C	9.38	127.93	110.11
5	F	711	GLN	CB-CA-C	9.35	127.87	110.11
5	R	1235	ASN	CA-C-O	-9.34	101.86	119.32
5	F	1235	ASN	CA-C-O	-9.32	101.90	119.32
6	V	406	PHE	CA-C-O	-9.31	107.19	120.51
5	F	935	GLN	CA-C-O	-9.31	107.20	120.51
6	J	406	PHE	CA-C-O	-9.29	107.23	120.51
5	R	935	GLN	CA-C-O	-9.28	107.23	120.51
8	U	734	ALA	N-CA-C	9.25	124.16	111.39
8	I	734	ALA	N-CA-C	9.24	124.15	111.39
5	F	1225	GLN	CA-C-N	-9.20	111.54	122.95
5	F	1225	GLN	C-N-CA	-9.20	111.54	122.95
5	R	1225	GLN	CA-C-N	-9.20	111.55	122.95
5	R	1225	GLN	C-N-CA	-9.20	111.55	122.95
8	I	737	ASN	N-CA-C	9.09	121.96	108.14
5	R	1090	PRO	CA-C-N	-9.09	103.85	121.58
5	R	1090	PRO	C-N-CA	-9.09	103.85	121.58
8	U	737	ASN	N-CA-C	9.08	121.94	108.14
5	F	1090	PRO	CA-C-N	-9.06	103.90	121.58
5	F	1090	PRO	C-N-CA	-9.06	103.90	121.58
5	R	1089	ASN	CB-CA-C	9.06	128.03	110.17
5	F	1089	ASN	CB-CA-C	9.02	127.95	110.17
6	V	369	LEU	N-CA-C	-9.02	101.40	111.14
7	T	415	LEU	N-CA-C	-9.00	101.44	111.07
6	J	369	LEU	N-CA-C	-9.00	101.42	111.14
7	H	415	LEU	N-CA-C	-8.98	101.46	111.07
1	Z	750	GLU	CA-C-N	8.97	138.68	121.54
1	Z	750	GLU	C-N-CA	8.97	138.68	121.54
1	N	750	GLU	CA-C-N	8.96	138.66	121.54
1	N	750	GLU	C-N-CA	8.96	138.66	121.54
5	R	1090	PRO	N-CA-CB	8.91	112.61	103.25
1	Z	91	GLN	CB-CA-C	-8.83	92.84	110.42
6	V	335	SER	CA-C-N	8.81	137.08	122.54
6	V	335	SER	C-N-CA	8.81	137.08	122.54
6	J	335	SER	CA-C-N	8.78	137.03	122.54
6	J	335	SER	C-N-CA	8.78	137.03	122.54
1	N	91	GLN	CB-CA-C	-8.76	92.98	110.42
5	F	1090	PRO	N-CA-CB	8.76	112.45	103.25
5	R	1373	ASP	N-CA-C	-8.68	101.14	112.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	450	PRO	CB-CA-C	-8.67	97.25	111.56
7	W	450	PRO	CB-CA-C	-8.67	97.26	111.56
5	R	1156	TYR	CA-C-O	-8.67	111.77	120.70
5	F	1373	ASP	N-CA-C	-8.66	101.16	112.68
7	H	476	GLN	N-CA-CB	-8.66	98.98	111.54
7	T	476	GLN	N-CA-CB	-8.65	99.00	111.54
6	V	406	PHE	CA-C-N	-8.64	105.41	120.79
6	V	406	PHE	C-N-CA	-8.64	105.41	120.79
6	J	406	PHE	CA-C-N	-8.63	105.43	120.79
6	J	406	PHE	C-N-CA	-8.63	105.43	120.79
5	R	1088	ARG	O-C-N	8.60	131.99	121.84
5	F	1156	TYR	CA-C-O	-8.60	111.84	120.70
2	O	693	LEU	CA-C-N	8.56	137.89	121.54
2	O	693	LEU	C-N-CA	8.56	137.89	121.54
5	F	1088	ARG	O-C-N	8.54	131.92	121.84
5	F	888	PRO	N-CA-C	8.54	130.06	112.47
5	F	921	PRO	CA-N-CD	-8.53	100.06	112.00
5	F	1158	THR	CB-CA-C	8.53	127.00	110.46
5	R	1158	THR	CB-CA-C	8.50	126.95	110.46
2	C	693	LEU	CA-C-N	8.49	137.76	121.54
2	C	693	LEU	C-N-CA	8.49	137.76	121.54
5	R	888	PRO	N-CA-C	8.49	129.97	112.47
5	R	921	PRO	CA-N-CD	-8.45	100.18	112.00
4	Q	773	LEU	N-CA-C	-8.37	104.20	114.75
1	M	248	THR	CB-CA-C	8.35	119.93	109.16
4	E	773	LEU	N-CA-C	-8.31	104.28	114.75
5	F	1222	ASN	CA-C-N	8.28	137.35	121.54
5	F	1222	ASN	C-N-CA	8.28	137.35	121.54
1	A	248	THR	CB-CA-C	8.27	119.83	109.16
1	A	23	ASN	CB-CA-C	8.24	124.47	110.79
7	W	452	GLY	CA-C-N	8.23	135.12	122.29
7	W	452	GLY	C-N-CA	8.23	135.12	122.29
5	R	1222	ASN	CA-C-N	8.22	137.23	121.54
5	R	1222	ASN	C-N-CA	8.22	137.23	121.54
7	K	452	GLY	CA-C-N	8.19	135.07	122.29
7	K	452	GLY	C-N-CA	8.19	135.07	122.29
7	H	475	SER	O-C-N	8.15	132.29	122.27
6	G	423	SER	CA-C-N	-8.13	109.38	120.44
6	G	423	SER	C-N-CA	-8.13	109.38	120.44
6	S	423	SER	CA-C-N	-8.11	109.41	120.44
6	S	423	SER	C-N-CA	-8.11	109.41	120.44
6	S	422	GLY	O-C-N	-8.09	115.95	123.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	921	PRO	N-CA-CB	-8.09	94.76	103.25
7	K	428	PRO	CA-C-N	8.08	132.70	120.82
7	K	428	PRO	C-N-CA	8.08	132.70	120.82
6	G	422	GLY	O-C-N	-8.08	115.96	123.96
6	J	335	SER	O-C-N	8.08	135.34	122.41
7	W	428	PRO	CA-C-N	8.08	132.69	120.82
7	W	428	PRO	C-N-CA	8.08	132.69	120.82
5	R	921	PRO	N-CA-CB	-8.06	94.79	103.25
8	I	731	GLY	CA-C-N	8.04	136.90	121.54
8	I	731	GLY	C-N-CA	8.04	136.90	121.54
8	U	731	GLY	CA-C-N	8.04	136.89	121.54
8	U	731	GLY	C-N-CA	8.04	136.89	121.54
7	K	341	LYS	N-CA-C	-8.02	93.71	110.80
5	R	925	HIS	CA-C-N	8.02	136.85	121.54
5	R	925	HIS	C-N-CA	8.02	136.85	121.54
7	W	341	LYS	N-CA-C	-8.01	93.75	110.80
7	T	520	ILE	CA-C-N	8.00	130.99	120.28
7	T	520	ILE	C-N-CA	8.00	130.99	120.28
5	F	1444	ASP	CA-C-N	-7.97	114.16	121.65
5	F	1444	ASP	C-N-CA	-7.97	114.16	121.65
6	V	335	SER	O-C-N	7.97	135.16	122.41
5	F	1273	LYS	N-CA-C	-7.97	103.51	113.55
7	H	520	ILE	CA-C-N	7.96	130.95	120.28
7	H	520	ILE	C-N-CA	7.96	130.95	120.28
5	R	1273	LYS	N-CA-C	-7.96	103.51	113.55
8	X	779	THR	CA-C-N	7.96	136.75	121.54
8	X	779	THR	C-N-CA	7.96	136.75	121.54
8	L	779	THR	CA-C-N	7.96	136.74	121.54
8	L	779	THR	C-N-CA	7.96	136.74	121.54
5	F	925	HIS	CA-C-N	7.94	136.71	121.54
5	F	925	HIS	C-N-CA	7.94	136.71	121.54
5	F	1314	VAL	N-CA-C	7.93	125.84	109.34
5	R	1314	VAL	N-CA-C	7.93	125.84	109.34
4	Q	212	TRP	O-C-N	7.91	131.17	122.15
1	M	88	LYS	N-CA-C	-7.89	102.76	111.36
4	E	212	TRP	O-C-N	7.87	131.12	122.15
1	A	88	LYS	N-CA-C	-7.86	102.80	111.36
5	F	935	GLN	N-CA-CB	7.84	123.75	110.49
5	F	827	ILE	O-C-N	7.79	130.38	121.96
5	R	935	GLN	N-CA-CB	7.79	123.66	110.49
7	W	456	THR	N-CA-C	7.76	121.53	109.96
7	K	456	THR	N-CA-C	7.76	121.53	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	T	423	LYS	CA-C-O	-7.73	114.83	119.55
5	R	827	ILE	O-C-N	7.72	130.30	121.96
5	R	1185	ILE	O-C-N	-7.70	114.48	123.03
7	W	431	ILE	CA-C-N	-7.68	108.44	120.88
7	W	431	ILE	C-N-CA	-7.68	108.44	120.88
7	K	431	ILE	CA-C-N	-7.64	108.51	120.88
7	K	431	ILE	C-N-CA	-7.64	108.51	120.88
7	W	514	THR	N-CA-C	-7.62	102.11	111.33
5	F	1185	ILE	O-C-N	-7.61	114.58	123.03
1	Z	54	PHE	CB-CA-C	-7.61	98.92	110.88
1	M	43	GLN	CA-C-N	-7.61	108.28	121.97
1	M	43	GLN	C-N-CA	-7.61	108.28	121.97
4	E	759	ASN	CB-CA-C	7.61	125.03	110.27
4	Q	759	ASN	CB-CA-C	7.59	125.00	110.27
7	H	423	LYS	CA-C-O	-7.56	114.94	119.55
1	A	114	ARG	N-CA-CB	7.56	120.97	110.01
1	N	54	PHE	CB-CA-C	-7.55	99.02	110.88
5	F	712	LEU	N-CA-C	-7.55	101.50	111.24
5	R	712	LEU	N-CA-C	-7.55	101.50	111.24
1	A	43	GLN	CA-C-N	-7.55	108.38	121.97
1	A	43	GLN	C-N-CA	-7.55	108.38	121.97
1	M	114	ARG	N-CA-CB	7.55	120.96	110.01
5	F	1140	GLU	N-CA-C	-7.54	102.06	111.11
7	K	489	LYS	N-CA-C	-7.54	104.21	113.41
7	W	521	THR	N-CA-C	-7.52	103.16	111.36
8	L	793	LEU	N-CA-C	-7.51	99.86	108.49
7	W	489	LYS	N-CA-C	-7.49	104.27	113.41
7	K	424	ASN	CB-CA-C	7.48	122.35	111.73
5	R	917	PHE	N-CA-C	-7.47	102.81	112.23
7	W	424	ASN	CB-CA-C	7.46	122.32	111.73
5	F	917	PHE	N-CA-C	-7.45	102.84	112.23
5	R	1140	GLU	N-CA-C	-7.44	102.19	111.11
4	Q	213	PHE	CB-CA-C	7.43	123.18	110.84
5	R	889	ILE	CA-C-O	-7.43	111.50	120.78
8	X	793	LEU	N-CA-C	-7.42	99.96	108.49
4	E	213	PHE	CB-CA-C	7.42	123.15	110.84
5	F	366	ILE	CA-C-N	7.42	135.70	121.54
5	F	366	ILE	C-N-CA	7.42	135.70	121.54
5	F	889	ILE	CA-C-O	-7.42	111.51	120.78
5	R	1225	GLN	N-CA-C	-7.41	103.55	112.59
5	F	1225	GLN	N-CA-C	-7.40	103.56	112.59
5	R	366	ILE	CA-C-N	7.36	135.60	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	366	ILE	C-N-CA	7.36	135.60	121.54
7	T	425	ARG	CA-C-O	-7.36	107.95	122.23
7	H	425	ARG	CA-C-O	-7.35	107.97	122.23
8	I	736	ASN	CB-CA-C	7.34	125.02	110.42
8	U	736	ASN	CB-CA-C	7.34	125.02	110.42
7	K	320	GLU	CA-C-N	7.33	135.54	121.54
7	K	320	GLU	C-N-CA	7.33	135.54	121.54
5	F	1090	PRO	CA-CB-CG	-7.32	90.59	104.50
7	T	475	SER	O-C-N	7.32	132.24	122.43
1	Z	246	ASN	CA-C-N	-7.31	116.53	122.16
1	Z	246	ASN	C-N-CA	-7.31	116.53	122.16
1	M	137	ASP	CA-CB-CG	7.31	119.91	112.60
7	W	320	GLU	CA-C-N	7.29	135.47	121.54
7	W	320	GLU	C-N-CA	7.29	135.47	121.54
5	F	1188	THR	CA-C-N	7.29	135.47	121.54
5	F	1188	THR	C-N-CA	7.29	135.47	121.54
5	R	1090	PRO	CA-CB-CG	-7.28	90.66	104.50
1	A	137	ASP	CA-CB-CG	7.28	119.88	112.60
8	I	736	ASN	CA-CB-CG	7.28	119.88	112.60
5	R	827	ILE	CA-C-N	7.27	135.06	122.56
5	R	827	ILE	C-N-CA	7.27	135.06	122.56
6	J	386	ASP	N-CA-C	-7.26	102.54	111.33
8	U	736	ASN	CA-CB-CG	7.26	119.86	112.60
5	R	1188	THR	CA-C-N	7.26	135.40	121.54
5	R	1188	THR	C-N-CA	7.26	135.40	121.54
5	F	1128	ASP	CA-CB-CG	7.24	119.84	112.60
5	F	899	PHE	CA-C-N	-7.24	115.64	122.37
5	F	899	PHE	C-N-CA	-7.24	115.64	122.37
5	R	899	PHE	CA-C-N	-7.21	115.67	122.37
5	R	899	PHE	C-N-CA	-7.21	115.67	122.37
5	R	903	ASN	CA-C-N	7.21	135.30	121.54
5	R	903	ASN	C-N-CA	7.21	135.30	121.54
5	F	827	ILE	CA-C-N	7.20	134.95	122.56
5	F	827	ILE	C-N-CA	7.20	134.95	122.56
5	F	903	ASN	CA-C-N	7.19	135.28	121.54
5	F	903	ASN	C-N-CA	7.19	135.28	121.54
7	T	426	GLY	O-C-N	7.19	132.05	122.70
8	U	753	GLU	CB-CA-C	-7.17	99.93	110.96
5	F	1378	ASP	CA-C-N	7.16	135.45	121.41
5	F	1378	ASP	C-N-CA	7.16	135.45	121.41
7	H	426	GLY	O-C-N	7.15	131.99	122.70
5	R	1378	ASP	CA-C-N	7.15	135.42	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	1378	ASP	C-N-CA	7.15	135.42	121.41
8	I	753	GLU	CB-CA-C	-7.14	99.96	110.96
5	R	1128	ASP	CA-CB-CG	7.14	119.74	112.60
5	R	1061	ASN	CB-CA-C	7.12	122.88	112.05
6	J	399	ASN	N-CA-C	-7.10	103.62	111.36
5	F	1061	ASN	CB-CA-C	7.10	122.84	112.05
6	J	367	ASN	O-C-N	7.10	129.76	122.09
1	N	53	VAL	CA-C-O	-7.08	113.59	120.95
1	Z	53	VAL	CA-C-O	-7.07	113.59	120.95
5	R	1180	TYR	CB-CA-C	-7.07	101.48	111.65
5	F	1180	TYR	CB-CA-C	-7.06	101.48	111.65
5	F	1286	PHE	CB-CA-C	7.06	124.74	109.99
5	R	1286	PHE	CB-CA-C	7.05	124.72	109.99
1	Z	250	ASN	CA-C-O	-7.04	113.42	120.82
1	N	827	GLU	N-CA-C	-7.04	103.54	111.07
7	W	381	GLU	N-CA-C	-7.02	103.63	111.28
5	F	1484	ARG	N-CA-C	-6.99	104.78	113.38
6	V	367	ASN	O-C-N	6.99	129.64	122.09
1	Z	827	GLU	N-CA-C	-6.99	103.59	111.07
7	K	381	GLU	N-CA-C	-6.98	103.67	111.28
5	R	1484	ARG	N-CA-C	-6.97	104.80	113.38
5	R	498	THR	N-CA-C	-6.97	102.52	111.02
5	F	498	THR	N-CA-C	-6.97	102.52	111.02
4	Q	257	LEU	CA-C-O	-6.96	113.51	120.82
3	P	994	SER	N-CA-C	-6.95	104.38	112.86
1	N	768	VAL	CA-C-N	-6.93	111.43	120.44
1	N	768	VAL	C-N-CA	-6.93	111.43	120.44
5	R	1208	GLU	N-CA-C	-6.92	96.92	109.44
8	I	737	ASN	CA-C-O	-6.91	113.88	121.28
5	R	887	PHE	CA-C-N	6.91	128.48	119.84
5	R	887	PHE	C-N-CA	6.91	128.48	119.84
3	D	994	SER	N-CA-C	-6.91	104.43	112.86
5	F	1208	GLU	N-CA-C	-6.91	96.94	109.44
1	Z	30	ASP	CA-CB-CG	6.91	119.50	112.60
5	F	887	PHE	CA-C-N	6.90	128.47	119.84
5	F	887	PHE	C-N-CA	6.90	128.47	119.84
8	U	737	ASN	CA-C-O	-6.89	113.90	121.28
1	Z	149	ALA	N-CA-C	-6.88	105.02	113.41
6	J	389	ARG	N-CA-C	-6.86	103.73	111.07
7	W	394	THR	CB-CA-C	6.85	118.00	109.16
1	Z	768	VAL	CA-C-N	-6.85	111.53	120.44
1	Z	768	VAL	C-N-CA	-6.85	111.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	394	THR	CB-CA-C	6.85	118.00	109.16
5	F	920	ILE	CA-C-N	6.83	128.37	119.84
5	F	920	ILE	C-N-CA	6.83	128.37	119.84
7	K	465	ILE	N-CA-C	-6.83	105.43	113.42
7	H	506	ILE	CA-C-N	6.82	134.57	121.54
7	H	506	ILE	C-N-CA	6.82	134.57	121.54
6	J	386	ASP	CB-CA-C	6.82	122.28	110.68
5	F	644	LYS	O-C-N	6.82	132.10	122.41
7	W	465	ILE	N-CA-C	-6.82	105.44	113.42
7	T	506	ILE	CA-C-N	6.82	134.56	121.54
7	T	506	ILE	C-N-CA	6.82	134.56	121.54
5	R	1055	VAL	N-CA-C	-6.81	105.45	113.42
5	R	644	LYS	O-C-N	6.80	132.07	122.41
1	N	149	ALA	N-CA-C	-6.79	105.13	113.41
5	F	1055	VAL	N-CA-C	-6.78	105.49	113.42
5	R	1035	GLY	O-C-N	6.76	128.53	121.77
6	V	401	ILE	CA-C-O	-6.75	111.86	120.03
5	R	824	ALA	CA-C-O	-6.75	110.86	120.51
5	R	880	GLU	CB-CA-C	-6.75	100.23	110.90
4	Q	699	GLU	N-CA-C	-6.75	105.33	113.97
7	W	516	GLN	CA-C-N	6.74	129.87	120.29
7	W	516	GLN	C-N-CA	6.74	129.87	120.29
5	F	880	GLU	CB-CA-C	-6.73	100.26	110.90
5	R	1086	LEU	N-CA-C	-6.73	101.26	111.56
5	F	824	ALA	CA-C-O	-6.73	110.89	120.51
4	E	699	GLU	N-CA-C	-6.72	105.37	113.97
5	R	920	ILE	CA-C-N	6.72	128.24	119.84
5	R	920	ILE	C-N-CA	6.72	128.24	119.84
5	F	1035	GLY	O-C-N	6.71	128.47	121.77
5	F	1086	LEU	N-CA-C	-6.64	101.40	111.56
8	I	784	ILE	N-CA-C	-6.64	107.40	113.71
6	J	429	LEU	CA-C-N	-6.62	111.40	121.26
6	J	429	LEU	C-N-CA	-6.62	111.40	121.26
5	F	1348	THR	CB-CA-C	6.61	121.39	110.81
8	U	784	ILE	N-CA-C	-6.59	107.45	113.71
6	V	429	LEU	CA-C-N	-6.59	111.45	121.26
6	V	429	LEU	C-N-CA	-6.59	111.45	121.26
5	F	1372	THR	CA-CB-OG1	6.58	119.47	109.60
5	R	1348	THR	CB-CA-C	6.58	121.34	110.81
6	J	378	HIS	CA-CB-CG	-6.58	107.22	113.80
1	A	43	GLN	O-C-N	-6.57	113.85	122.59
7	H	510	VAL	N-CA-C	-6.57	105.74	113.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	1378	ASP	CB-CA-C	6.56	123.47	110.42
5	R	1372	THR	CA-CB-OG1	6.54	119.41	109.60
5	F	1378	ASP	CB-CA-C	6.53	123.41	110.42
8	U	800	HIS	CA-CB-CG	-6.51	107.29	113.80
5	R	837	TYR	N-CA-C	-6.51	104.11	111.14
6	V	378	HIS	CA-CB-CG	-6.51	107.29	113.80
5	R	900	LEU	N-CA-C	6.50	118.12	108.76
7	T	510	VAL	N-CA-C	-6.50	105.81	113.42
7	W	449	ASP	CA-C-N	6.50	127.96	119.84
7	W	449	ASP	C-N-CA	6.50	127.96	119.84
5	R	1183	TYR	CA-C-N	-6.50	109.13	122.58
5	R	1183	TYR	C-N-CA	-6.50	109.13	122.58
6	G	422	GLY	CA-C-N	-6.49	116.19	123.13
6	G	422	GLY	C-N-CA	-6.49	116.19	123.13
5	F	1183	TYR	CA-C-N	-6.49	109.15	122.58
5	F	1183	TYR	C-N-CA	-6.49	109.15	122.58
8	I	800	HIS	CA-CB-CG	-6.48	107.32	113.80
5	F	837	TYR	N-CA-C	-6.47	104.15	111.14
5	R	1379	GLY	CA-C-N	6.47	133.89	121.54
5	R	1379	GLY	C-N-CA	6.47	133.89	121.54
5	F	1379	GLY	CA-C-N	6.46	133.88	121.54
5	F	1379	GLY	C-N-CA	6.46	133.88	121.54
7	K	449	ASP	CA-C-N	6.46	127.92	119.84
7	K	449	ASP	C-N-CA	6.46	127.92	119.84
5	F	900	LEU	N-CA-C	6.46	118.06	108.76
1	M	43	GLN	O-C-N	-6.45	114.02	122.59
5	R	1377	VAL	N-CA-C	-6.45	106.17	111.91
8	U	736	ASN	CA-C-O	-6.44	111.30	120.51
8	I	736	ASN	CA-C-O	-6.43	111.32	120.51
5	R	1134	LYS	N-CA-CB	6.42	121.35	110.49
5	F	1134	LYS	N-CA-CB	6.42	121.34	110.49
5	F	1377	VAL	N-CA-C	-6.41	106.21	111.91
5	F	1543	LEU	N-CA-C	-6.40	103.82	112.26
6	S	422	GLY	CA-C-N	-6.39	116.29	123.13
6	S	422	GLY	C-N-CA	-6.39	116.29	123.13
5	R	1543	LEU	N-CA-C	-6.38	103.83	112.26
1	N	815	ILE	N-CA-C	-6.38	104.28	110.72
1	Z	815	ILE	N-CA-C	-6.37	104.28	110.72
5	R	411	ASN	CA-C-N	6.36	133.69	121.54
5	R	411	ASN	C-N-CA	6.36	133.69	121.54
5	F	411	ASN	CA-C-N	6.36	133.69	121.54
5	F	411	ASN	C-N-CA	6.36	133.69	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1405	PHE	CA-C-N	-6.34	109.21	121.58
5	F	1405	PHE	C-N-CA	-6.34	109.21	121.58
7	W	466	LEU	N-CA-CB	-6.34	100.75	110.07
1	M	54	PHE	CB-CA-C	-6.34	99.10	110.70
7	W	431	ILE	CA-C-O	-6.34	112.86	120.78
5	R	1405	PHE	CA-C-N	-6.34	109.22	121.58
5	R	1405	PHE	C-N-CA	-6.34	109.22	121.58
5	F	1156	TYR	O-C-N	6.33	128.92	122.09
3	P	1128	GLN	N-CA-CB	6.32	121.18	110.49
5	R	1156	TYR	O-C-N	6.32	128.92	122.09
7	K	431	ILE	CA-C-O	-6.30	112.90	120.78
5	F	590	ILE	CA-C-N	6.29	133.56	121.54
5	F	590	ILE	C-N-CA	6.29	133.56	121.54
5	R	590	ILE	CA-C-N	6.28	133.54	121.54
5	R	590	ILE	C-N-CA	6.28	133.54	121.54
1	A	54	PHE	CB-CA-C	-6.28	99.21	110.70
3	D	1128	GLN	N-CA-CB	6.28	121.10	110.49
6	V	380	TYR	CB-CA-C	6.27	121.31	110.72
1	Z	113	ILE	CA-C-O	-6.26	114.44	120.95
5	R	1359	PHE	CA-CB-CG	-6.26	107.54	113.80
7	K	466	LEU	N-CA-CB	-6.25	100.88	110.07
1	N	113	ILE	CA-C-O	-6.23	114.47	120.95
5	F	1406	TYR	CA-CB-CG	6.23	125.11	113.90
5	R	1406	TYR	CA-CB-CG	6.20	125.06	113.90
5	F	1142	GLU	CA-C-N	6.20	131.56	122.08
5	F	1142	GLU	C-N-CA	6.20	131.56	122.08
5	F	1359	PHE	CA-CB-CG	-6.20	107.60	113.80
6	J	380	TYR	CB-CA-C	6.20	121.19	110.72
5	R	1142	GLU	CA-C-N	6.19	131.56	122.08
5	R	1142	GLU	C-N-CA	6.19	131.56	122.08
4	E	979	ASN	CB-CA-C	-6.19	100.56	110.84
1	Z	832	LEU	N-CA-C	-6.18	104.62	111.36
1	M	86	PHE	CA-C-N	-6.17	112.64	121.52
1	M	86	PHE	C-N-CA	-6.17	112.64	121.52
4	Q	979	ASN	CB-CA-C	-6.16	100.62	110.84
4	E	261	ILE	CA-C-O	-6.16	114.64	121.17
5	F	1034	LEU	N-CA-CB	-6.16	101.72	110.46
6	J	336	PHE	N-CA-C	-6.16	105.41	113.17
5	F	1187	ASN	CA-C-N	6.13	133.24	121.54
5	F	1187	ASN	C-N-CA	6.13	133.24	121.54
5	R	1033	SER	CA-C-O	-6.13	114.83	121.20
5	F	750	TRP	CA-C-O	-6.12	111.77	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	J	390	ILE	O-C-N	6.11	130.06	122.05
5	R	750	TRP	CA-C-O	-6.11	111.79	120.16
5	R	1034	LEU	N-CA-CB	-6.11	101.79	110.46
1	A	86	PHE	CA-C-N	-6.10	112.74	121.52
1	A	86	PHE	C-N-CA	-6.10	112.74	121.52
5	F	826	PRO	CB-CA-C	-6.09	102.24	111.44
5	F	1033	SER	CA-C-O	-6.08	114.88	121.20
1	N	832	LEU	N-CA-C	-6.07	104.74	111.36
5	F	793	TYR	CA-CB-CG	6.07	124.82	113.90
5	R	1160	TYR	CA-C-O	-6.07	112.99	119.97
5	F	1160	TYR	CA-C-O	-6.07	112.99	119.97
8	L	780	THR	CB-CA-C	6.06	122.49	110.42
1	N	751	LEU	N-CA-CB	-6.05	100.26	110.49
5	R	722	ARG	CA-C-N	6.05	130.98	122.08
5	R	722	ARG	C-N-CA	6.05	130.98	122.08
1	Z	751	LEU	N-CA-CB	-6.05	100.26	110.49
8	U	798	ASN	CA-C-N	6.05	133.10	121.54
8	U	798	ASN	C-N-CA	6.05	133.10	121.54
3	P	1130	GLN	CA-C-N	6.05	129.52	120.69
3	P	1130	GLN	C-N-CA	6.05	129.52	120.69
6	V	387	TYR	N-CA-C	-6.05	104.80	111.82
6	V	372	PHE	CA-CB-CG	-6.05	107.75	113.80
5	F	1089	ASN	C-N-CD	6.04	149.74	125.00
6	V	336	PHE	N-CA-C	-6.03	105.57	113.17
8	X	780	THR	CB-CA-C	6.03	122.42	110.42
3	D	1130	GLN	CA-C-N	6.02	129.48	120.69
3	D	1130	GLN	C-N-CA	6.02	129.48	120.69
7	H	427	LEU	CA-C-O	-6.02	111.91	120.16
5	F	344	ILE	CA-C-N	6.02	136.79	126.32
5	F	344	ILE	C-N-CA	6.02	136.79	126.32
5	F	722	ARG	CA-C-N	6.02	130.92	122.08
5	F	722	ARG	C-N-CA	6.02	130.92	122.08
8	I	798	ASN	CA-C-N	6.02	133.03	121.54
8	I	798	ASN	C-N-CA	6.02	133.03	121.54
5	R	1187	ASN	CA-C-N	6.01	133.03	121.54
5	R	1187	ASN	C-N-CA	6.01	133.03	121.54
5	R	639	LEU	CB-CA-C	6.01	121.75	109.55
7	T	520	ILE	CA-C-O	-6.00	114.81	121.17
5	R	826	PRO	CB-CA-C	-6.00	102.38	111.44
5	R	793	TYR	CA-CB-CG	6.00	124.70	113.90
7	T	427	LEU	CA-C-O	-6.00	111.94	120.16
5	R	1089	ASN	C-N-CD	6.00	149.60	125.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	750	GLU	N-CA-C	-6.00	104.86	111.82
4	E	212	TRP	CA-C-N	6.00	130.73	121.19
4	E	212	TRP	C-N-CA	6.00	130.73	121.19
5	R	344	ILE	CA-C-N	5.99	136.74	126.32
5	R	344	ILE	C-N-CA	5.99	136.74	126.32
7	H	317	ASN	CB-CA-C	5.99	117.16	109.80
3	D	1127	THR	CA-C-N	5.98	132.97	121.54
3	D	1127	THR	C-N-CA	5.98	132.97	121.54
6	J	372	PHE	CA-CB-CG	-5.98	107.82	113.80
7	H	520	ILE	CA-C-O	-5.98	114.83	121.17
3	P	1127	THR	CA-C-N	5.98	132.96	121.54
3	P	1127	THR	C-N-CA	5.98	132.96	121.54
6	J	404	ASP	CA-C-N	5.97	132.95	121.54
6	J	404	ASP	C-N-CA	5.97	132.95	121.54
1	Z	22	LEU	N-CA-C	-5.97	104.68	111.07
5	F	1382	TYR	CA-C-O	-5.96	114.63	120.89
7	T	317	ASN	CB-CA-C	5.96	117.13	109.80
5	F	639	LEU	CB-CA-C	5.96	121.64	109.55
1	N	750	GLU	N-CA-C	-5.96	104.91	111.82
1	M	55	GLN	CB-CA-C	5.95	122.43	109.99
4	Q	212	TRP	CA-C-N	5.94	130.64	121.19
4	Q	212	TRP	C-N-CA	5.94	130.64	121.19
1	A	55	GLN	CB-CA-C	5.94	122.41	109.99
4	E	1379	GLU	CA-C-N	5.93	128.55	120.54
4	E	1379	GLU	C-N-CA	5.93	128.55	120.54
4	Q	1379	GLU	CA-C-N	5.93	128.55	120.54
4	Q	1379	GLU	C-N-CA	5.93	128.55	120.54
7	H	504	ASP	CA-C-O	-5.91	116.17	121.67
5	R	336	LYS	CA-C-N	5.91	132.83	121.54
5	R	336	LYS	C-N-CA	5.91	132.83	121.54
5	R	1067	ASN	CA-C-N	5.91	128.58	122.96
5	R	1067	ASN	C-N-CA	5.91	128.58	122.96
4	E	1380	ASP	CA-C-O	-5.89	114.59	120.90
5	F	1160	TYR	N-CA-CB	5.88	119.39	110.28
5	F	921	PRO	CB-CA-C	5.87	121.25	111.56
5	F	1067	ASN	CA-C-N	5.87	128.54	122.96
5	F	1067	ASN	C-N-CA	5.87	128.54	122.96
5	F	1138	PHE	CA-C-N	5.87	132.53	121.97
5	F	1138	PHE	C-N-CA	5.87	132.53	121.97
5	R	1382	TYR	CA-C-O	-5.86	114.74	120.89
5	R	1090	PRO	N-CD-CG	5.86	111.98	103.20
8	I	797	LEU	N-CA-CB	5.84	118.71	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	W	516	GLN	CA-C-O	-5.84	114.69	120.82
5	R	921	PRO	CB-CA-C	5.84	121.20	111.56
5	R	1138	PHE	CA-C-N	5.84	132.48	121.97
5	R	1138	PHE	C-N-CA	5.84	132.48	121.97
5	R	817	ASN	CA-CB-CG	5.84	118.44	112.60
5	F	336	LYS	CA-C-N	5.83	132.68	121.54
5	F	336	LYS	C-N-CA	5.83	132.68	121.54
5	R	1160	TYR	N-CA-CB	5.83	119.32	110.28
7	T	504	ASP	CA-C-O	-5.83	116.25	121.67
5	F	750	TRP	CA-CB-CG	5.83	124.67	113.60
5	F	1165	ILE	CA-C-O	-5.83	114.89	120.95
6	J	393	ASP	CA-CB-CG	-5.83	106.77	112.60
5	F	1134	LYS	CA-C-N	-5.82	110.43	121.54
5	F	1134	LYS	C-N-CA	-5.82	110.43	121.54
5	R	750	TRP	CA-CB-CG	5.82	124.65	113.60
5	R	649	LEU	N-CA-C	5.82	117.27	110.41
5	R	1068	ILE	CA-C-N	5.81	131.30	120.95
5	R	1068	ILE	C-N-CA	5.81	131.30	120.95
5	F	649	LEU	N-CA-C	5.81	117.27	110.41
5	F	1090	PRO	O-C-N	5.81	130.49	122.64
1	M	532	ILE	N-CA-C	-5.81	106.74	111.91
5	R	968	ILE	N-CA-C	-5.81	106.83	112.29
7	K	463	LEU	N-CA-CB	-5.80	102.00	110.47
8	U	797	LEU	N-CA-CB	5.80	118.65	110.12
5	F	968	ILE	N-CA-C	-5.80	106.84	112.29
7	W	519	GLY	CA-C-N	5.80	129.81	120.30
7	W	519	GLY	C-N-CA	5.80	129.81	120.30
5	F	817	ASN	CA-CB-CG	5.80	118.40	112.60
4	Q	1380	ASP	CA-C-O	-5.80	114.70	120.90
5	R	1134	LYS	CA-C-N	-5.80	110.47	121.54
5	R	1134	LYS	C-N-CA	-5.80	110.47	121.54
1	Z	20	LYS	CA-C-N	5.79	128.04	120.28
1	Z	20	LYS	C-N-CA	5.79	128.04	120.28
5	R	1061	ASN	CA-C-O	-5.79	115.59	122.13
5	F	1090	PRO	N-CD-CG	5.79	111.88	103.20
5	R	1209	PRO	O-C-N	5.78	128.70	122.17
5	F	935	GLN	O-C-N	5.77	130.27	122.59
5	R	1090	PRO	O-C-N	5.77	130.43	122.64
7	W	463	LEU	N-CA-CB	-5.77	102.05	110.47
5	R	935	GLN	O-C-N	5.76	130.25	122.59
5	F	1068	ILE	CA-C-N	5.76	131.21	120.95
5	F	1068	ILE	C-N-CA	5.76	131.21	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	W	394	THR	N-CA-C	-5.76	107.50	114.75
1	A	532	ILE	N-CA-C	-5.75	106.79	111.91
5	F	1061	ASN	CA-C-O	-5.75	115.63	122.13
7	T	530	ASP	CA-C-N	5.75	128.46	120.29
7	T	530	ASP	C-N-CA	5.75	128.46	120.29
1	M	113	ILE	N-CA-C	5.75	117.27	111.00
5	R	1146	ALA	CA-C-N	-5.75	111.58	120.31
5	R	1146	ALA	C-N-CA	-5.75	111.58	120.31
7	W	446	ARG	CG-CD-NE	-5.75	99.36	112.00
7	K	446	ARG	CG-CD-NE	-5.74	99.36	112.00
5	F	1146	ALA	CA-C-N	-5.72	111.61	120.31
5	F	1146	ALA	C-N-CA	-5.72	111.61	120.31
7	H	423	LYS	O-C-N	5.72	125.86	120.71
8	I	796	ILE	N-CA-CB	5.72	118.32	110.54
7	K	394	THR	N-CA-C	-5.72	107.55	114.75
1	N	45	SER	N-CA-C	-5.72	105.05	111.28
5	R	1165	ILE	CA-C-O	-5.72	115.00	120.95
5	F	1376	THR	CA-CB-OG1	-5.71	101.03	109.60
5	F	1209	PRO	O-C-N	5.71	128.63	122.17
5	F	1306	TRP	CA-C-N	5.71	132.25	121.97
5	F	1306	TRP	C-N-CA	5.71	132.25	121.97
5	R	1200	PRO	CA-C-N	-5.71	114.66	123.17
5	R	1200	PRO	C-N-CA	-5.71	114.66	123.17
5	R	1376	THR	CA-CB-OG1	-5.71	101.04	109.60
7	T	423	LYS	O-C-N	5.70	125.84	120.71
5	R	1306	TRP	CA-C-N	5.70	132.23	121.97
5	R	1306	TRP	C-N-CA	5.70	132.23	121.97
5	R	1209	PRO	CA-C-N	5.69	132.41	121.54
5	R	1209	PRO	C-N-CA	5.69	132.41	121.54
1	A	113	ILE	N-CA-C	5.69	117.20	111.00
8	U	796	ILE	N-CA-CB	5.69	118.28	110.54
5	F	34	ASN	CA-C-N	5.69	132.40	121.54
5	F	34	ASN	C-N-CA	5.69	132.40	121.54
5	F	1209	PRO	CA-C-N	5.69	132.40	121.54
5	F	1209	PRO	C-N-CA	5.69	132.40	121.54
5	R	34	ASN	CA-C-N	5.68	132.39	121.54
5	R	34	ASN	C-N-CA	5.68	132.39	121.54
5	F	833	THR	O-C-N	5.68	132.04	122.21
8	I	795	LYS	N-CA-C	-5.68	105.00	111.07
5	F	1200	PRO	CA-C-N	-5.68	114.71	123.17
5	F	1200	PRO	C-N-CA	-5.68	114.71	123.17
1	Z	45	SER	N-CA-C	-5.67	105.10	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	J	401	ILE	N-CA-C	-5.67	104.84	110.62
5	F	837	TYR	CA-C-N	-5.66	110.46	120.99
5	F	837	TYR	C-N-CA	-5.66	110.46	120.99
5	R	1150	PHE	CA-C-N	-5.66	111.70	120.31
5	R	1150	PHE	C-N-CA	-5.66	111.70	120.31
5	R	837	TYR	CA-C-N	-5.66	110.47	120.99
5	R	837	TYR	C-N-CA	-5.66	110.47	120.99
1	N	749	ASP	CA-C-N	5.65	128.90	120.31
1	N	749	ASP	C-N-CA	5.65	128.90	120.31
5	F	1150	PHE	CA-C-N	-5.65	111.72	120.31
5	F	1150	PHE	C-N-CA	-5.65	111.72	120.31
5	R	1348	THR	CA-CB-OG1	-5.65	101.12	109.60
5	R	833	THR	O-C-N	5.65	131.99	122.21
7	H	530	ASP	CA-C-N	5.65	128.31	120.29
7	H	530	ASP	C-N-CA	5.65	128.31	120.29
8	U	795	LYS	N-CA-C	-5.65	105.03	111.07
1	Z	749	ASP	CA-C-N	5.63	128.87	120.31
1	Z	749	ASP	C-N-CA	5.63	128.87	120.31
6	V	339	LEU	CA-C-N	5.63	129.54	120.30
6	V	339	LEU	C-N-CA	5.63	129.54	120.30
5	R	903	ASN	CB-CA-C	5.63	119.50	109.65
1	M	114	ARG	N-CA-C	-5.61	105.06	111.07
6	V	373	PHE	N-CA-CB	5.61	119.70	110.39
5	F	1348	THR	CA-CB-OG1	-5.61	101.19	109.60
6	V	368	ASP	N-CA-C	-5.60	106.15	112.87
8	I	819	ASN	O-C-N	5.60	129.16	122.27
1	Z	17	GLY	CA-C-N	5.60	127.78	120.28
1	Z	17	GLY	C-N-CA	5.60	127.78	120.28
5	R	1040	THR	CB-CA-C	5.60	119.76	109.46
6	J	339	LEU	CA-C-N	5.60	129.48	120.30
6	J	339	LEU	C-N-CA	5.60	129.48	120.30
5	R	1506	ILE	CG1-CB-CG2	-5.59	93.92	110.70
5	F	903	ASN	CB-CA-C	5.59	119.43	109.65
6	J	368	ASP	N-CA-C	-5.59	106.16	112.87
1	A	114	ARG	N-CA-C	-5.59	105.09	111.07
5	F	1040	THR	CB-CA-C	5.59	119.74	109.46
5	F	1506	ILE	CG1-CB-CG2	-5.59	93.94	110.70
8	U	795	LYS	CA-C-O	-5.59	114.95	120.82
8	U	819	ASN	O-C-N	5.58	129.13	122.27
6	J	373	PHE	N-CA-CB	5.58	119.64	110.39
7	W	518	ARG	CB-CA-C	5.57	121.64	109.99
2	O	1255	SER	N-CA-C	5.56	122.65	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	44	VAL	N-CA-C	5.56	120.91	109.34
1	M	44	VAL	N-CA-C	5.55	120.88	109.34
5	F	1068	ILE	CA-C-O	-5.54	115.22	121.09
8	I	795	LYS	CA-C-O	-5.53	115.01	120.82
8	I	796	ILE	CA-C-O	-5.53	115.20	120.95
5	F	1166	HIS	CB-CA-C	5.53	120.25	110.85
5	R	1040	THR	CA-C-O	-5.53	115.12	121.47
6	V	389	ARG	CB-CA-C	5.52	119.96	110.79
5	R	1166	HIS	CB-CA-C	5.52	120.23	110.85
5	F	355	LEU	N-CA-C	-5.51	106.63	113.19
8	U	796	ILE	CA-C-O	-5.51	115.22	120.95
5	F	1386	LYS	CA-C-N	5.51	132.06	121.54
5	F	1386	LYS	C-N-CA	5.51	132.06	121.54
5	R	1068	ILE	CA-C-O	-5.50	115.27	121.09
2	C	1255	SER	N-CA-C	5.49	122.50	110.80
5	F	925	HIS	O-C-N	5.48	129.75	122.95
3	P	528	PRO	CA-N-CD	-5.48	104.32	112.00
4	E	1380	ASP	O-C-N	5.48	127.79	122.09
5	F	1040	THR	CA-C-O	-5.47	115.18	121.47
8	I	733	ALA	CA-C-N	5.47	130.13	122.36
8	I	733	ALA	C-N-CA	5.47	130.13	122.36
5	R	355	LEU	N-CA-C	-5.47	106.68	113.19
5	R	1386	LYS	CA-C-N	5.46	131.97	121.54
5	R	1386	LYS	C-N-CA	5.46	131.97	121.54
3	D	995	PHE	CB-CA-C	5.44	119.17	109.38
4	Q	1380	ASP	O-C-N	5.44	127.74	122.09
5	R	410	PRO	CA-C-N	-5.44	112.29	122.73
5	R	410	PRO	C-N-CA	-5.44	112.29	122.73
4	E	1384	ASP	CB-CA-C	5.43	121.47	110.38
3	D	528	PRO	CA-N-CD	-5.43	104.40	112.00
3	P	995	PHE	CB-CA-C	5.43	119.15	109.38
7	H	427	LEU	O-C-N	-5.42	115.08	121.32
4	E	257	LEU	CA-C-O	-5.42	115.13	120.82
4	Q	1384	ASP	CB-CA-C	5.42	121.44	110.38
2	O	1221	ARG	NE-CZ-NH2	5.42	124.07	119.20
1	N	770	ASN	CB-CA-C	5.41	119.77	110.79
5	R	925	HIS	O-C-N	5.41	129.66	122.95
8	U	733	ALA	CA-C-N	5.41	130.04	122.36
8	U	733	ALA	C-N-CA	5.41	130.04	122.36
1	A	31	ASN	CB-CA-C	5.41	119.77	110.79
2	C	1221	ARG	NE-CZ-NH2	5.41	124.07	119.20
5	R	884	GLU	CA-C-N	5.41	131.87	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	884	GLU	C-N-CA	5.41	131.87	121.54
5	F	1285	HIS	CA-C-O	-5.41	113.41	119.79
1	Z	770	ASN	CB-CA-C	5.40	119.76	110.79
1	N	251	ALA	N-CA-C	-5.39	105.30	111.07
7	W	506	ILE	CA-C-O	-5.39	115.34	120.95
5	F	884	GLU	CA-C-N	5.39	131.84	121.54
5	F	884	GLU	C-N-CA	5.39	131.84	121.54
5	F	410	PRO	CA-C-N	-5.39	112.38	122.73
5	F	410	PRO	C-N-CA	-5.39	112.38	122.73
5	R	1359	PHE	CA-C-O	-5.39	114.84	120.55
5	F	1543	LEU	CA-C-N	-5.37	112.50	122.60
5	F	1543	LEU	C-N-CA	-5.37	112.50	122.60
1	M	825	PRO	CA-C-N	-5.37	112.14	120.31
1	M	825	PRO	C-N-CA	-5.37	112.14	120.31
7	T	427	LEU	O-C-N	-5.37	115.15	121.32
5	R	1543	LEU	CA-C-N	-5.37	112.51	122.60
5	R	1543	LEU	C-N-CA	-5.37	112.51	122.60
5	R	749	ILE	O-C-N	5.36	128.91	121.84
5	R	393	SER	N-CA-C	5.35	116.99	110.41
7	W	513	LEU	O-C-N	5.35	128.25	122.15
1	A	825	PRO	CA-C-N	-5.35	112.18	120.31
1	A	825	PRO	C-N-CA	-5.35	112.18	120.31
5	R	1420	GLN	CA-C-N	5.35	131.60	121.97
5	R	1420	GLN	C-N-CA	5.35	131.60	121.97
5	R	1372	THR	N-CA-CB	5.34	119.52	110.49
5	F	1195	PHE	N-CA-C	5.34	122.17	110.80
5	F	1420	GLN	CA-C-N	5.34	131.58	121.97
5	F	1420	GLN	C-N-CA	5.34	131.58	121.97
5	F	1118	ARG	N-CA-C	-5.34	102.19	109.71
6	J	379	LEU	CA-C-N	-5.34	114.28	122.60
6	J	379	LEU	C-N-CA	-5.34	114.28	122.60
5	F	1372	THR	N-CA-CB	5.33	119.50	110.49
5	R	1289	ILE	N-CA-CB	5.33	116.79	110.55
5	F	749	ILE	O-C-N	5.33	128.87	121.84
5	F	921	PRO	CA-C-N	5.32	131.70	121.54
5	F	921	PRO	C-N-CA	5.32	131.70	121.54
5	R	1195	PHE	N-CA-C	5.32	122.13	110.80
5	R	1118	ARG	N-CA-C	-5.32	102.22	109.71
2	C	475	LEU	CA-C-N	5.30	131.67	121.54
2	C	475	LEU	C-N-CA	5.30	131.67	121.54
1	M	19	ASN	CB-CA-C	5.29	119.85	110.85
7	T	508	LYS	N-CA-C	5.29	116.25	107.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	W	428	PRO	N-CA-C	-5.29	108.62	114.92
5	F	827	ILE	CA-C-O	-5.29	115.91	121.41
1	Z	145	ASN	CB-CA-C	5.29	119.32	110.92
1	Z	26	LEU	CA-C-O	-5.28	114.95	120.55
7	H	508	LYS	N-CA-C	5.28	116.23	107.73
5	R	1174	LYS	CB-CA-C	5.28	119.72	110.64
5	R	1285	HIS	CA-C-O	-5.28	113.56	119.79
5	R	889	ILE	CA-C-N	-5.28	113.92	121.52
5	R	889	ILE	C-N-CA	-5.28	113.92	121.52
5	F	1359	PHE	CA-C-O	-5.27	114.97	120.55
5	R	921	PRO	CA-C-N	5.27	131.60	121.54
5	R	921	PRO	C-N-CA	5.27	131.60	121.54
5	F	1367	ASP	CA-C-N	5.27	129.40	121.40
5	F	1367	ASP	C-N-CA	5.27	129.40	121.40
7	K	428	PRO	N-CA-C	-5.27	108.65	114.92
1	N	19	ASN	CB-CA-C	5.27	119.80	110.85
5	F	1174	LYS	CB-CA-C	5.26	119.69	110.64
5	F	1289	ILE	N-CA-CB	5.26	116.71	110.55
6	V	379	LEU	CA-C-N	-5.26	114.39	122.60
6	V	379	LEU	C-N-CA	-5.26	114.39	122.60
5	F	712	LEU	CA-C-O	-5.26	115.27	120.80
1	M	84	ASP	CB-CA-C	-5.26	102.62	110.88
5	F	888	PRO	N-CA-CB	-5.26	97.72	103.25
7	W	519	GLY	N-CA-C	-5.26	106.03	112.77
5	F	1166	HIS	CA-CB-CG	5.26	119.06	113.80
6	J	382	LYS	CB-CA-C	-5.26	102.06	110.79
1	A	84	ASP	CB-CA-C	-5.26	102.63	110.88
5	R	827	ILE	CA-C-O	-5.25	115.95	121.41
5	R	925	HIS	CA-C-O	-5.25	114.94	120.92
5	R	1367	ASP	CA-C-N	5.25	129.38	121.40
5	R	1367	ASP	C-N-CA	5.25	129.38	121.40
6	V	382	LYS	CB-CA-C	-5.25	102.08	110.79
5	F	1156	TYR	N-CA-CB	5.25	117.68	110.07
2	O	475	LEU	CA-C-N	5.25	131.56	121.54
2	O	475	LEU	C-N-CA	5.25	131.56	121.54
5	R	1377	VAL	CA-C-N	5.25	131.56	121.54
5	R	1377	VAL	C-N-CA	5.25	131.56	121.54
5	F	1377	VAL	CA-C-N	5.24	131.55	121.54
5	F	1377	VAL	C-N-CA	5.24	131.55	121.54
5	R	1166	HIS	CA-CB-CG	5.24	119.04	113.80
4	E	51	LEU	CA-CB-CG	5.24	134.64	116.30
8	U	802	ASP	CA-C-O	-5.23	114.87	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	75	ASP	CA-CB-CG	5.23	117.83	112.60
5	R	888	PRO	N-CA-CB	-5.22	97.77	103.25
5	R	1061	ASN	CA-C-N	5.22	131.52	121.54
5	R	1061	ASN	C-N-CA	5.22	131.52	121.54
5	R	1156	TYR	N-CA-CB	5.22	117.64	110.07
5	F	903	ASN	N-CA-C	-5.22	99.45	108.69
5	F	925	HIS	CA-C-O	-5.22	114.97	120.92
4	Q	51	LEU	CA-CB-CG	5.22	134.57	116.30
2	C	75	ASP	CA-CB-CG	5.22	117.82	112.60
1	N	145	ASN	CB-CA-C	5.22	119.22	110.92
1	Z	115	THR	CB-CA-C	5.22	120.69	110.67
5	F	378	ALA	CA-C-O	-5.21	114.61	122.38
5	R	378	ALA	CA-C-O	-5.21	114.61	122.38
5	R	1459	LEU	CA-C-N	-5.21	112.36	122.06
5	R	1459	LEU	C-N-CA	-5.21	112.36	122.06
5	R	712	LEU	CA-C-O	-5.21	115.33	120.80
5	R	1353	LEU	CA-C-N	-5.21	111.76	120.30
5	R	1353	LEU	C-N-CA	-5.21	111.76	120.30
5	R	395	PRO	CA-C-N	5.21	131.62	121.41
5	R	395	PRO	C-N-CA	5.21	131.62	121.41
5	R	1061	ASN	O-C-N	5.21	128.44	122.55
5	R	1380	ARG	N-CA-C	-5.21	99.71	110.80
5	R	903	ASN	N-CA-C	-5.21	99.47	108.69
5	F	1061	ASN	CA-C-N	5.21	131.48	121.54
5	F	1061	ASN	C-N-CA	5.21	131.48	121.54
5	F	889	ILE	CA-C-N	-5.20	114.03	121.52
5	F	889	ILE	C-N-CA	-5.20	114.03	121.52
5	F	1061	ASN	O-C-N	5.20	128.43	122.55
5	R	916	ILE	O-C-N	5.20	129.07	122.57
8	I	802	ASP	CA-C-O	-5.20	114.91	120.42
7	K	388	GLN	N-CA-C	-5.20	105.61	111.28
5	F	1380	ARG	N-CA-C	-5.20	99.73	110.80
5	F	1459	LEU	CA-C-N	-5.20	112.40	122.06
5	F	1459	LEU	C-N-CA	-5.20	112.40	122.06
8	L	703	GLN	CA-C-O	-5.20	114.99	120.55
2	C	914	GLN	OE1-CD-NE2	-5.19	117.41	122.60
7	K	525	GLU	N-CA-C	-5.19	105.30	111.69
1	M	86	PHE	CB-CA-C	-5.19	102.73	110.88
5	R	645	ILE	CA-C-O	-5.19	116.12	121.93
7	T	427	LEU	CA-C-N	5.19	126.12	120.83
7	T	427	LEU	C-N-CA	5.19	126.12	120.83
6	J	385	GLU	O-C-N	5.18	127.69	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	115	THR	CB-CA-C	5.18	120.61	110.67
4	E	261	ILE	O-C-N	5.18	126.98	121.91
5	R	865	LEU	CA-C-N	-5.17	112.09	121.14
5	R	865	LEU	C-N-CA	-5.17	112.09	121.14
5	F	1033	SER	N-CA-C	5.17	117.07	110.61
7	W	388	GLN	N-CA-C	-5.17	105.64	111.28
5	F	1354	VAL	CA-C-O	-5.17	114.89	120.47
7	K	497	GLY	N-CA-C	5.17	119.14	112.83
1	M	54	PHE	N-CA-C	-5.17	105.33	111.69
5	F	395	PRO	CA-C-N	5.16	131.53	121.41
5	F	395	PRO	C-N-CA	5.16	131.53	121.41
5	F	1353	LEU	CA-C-N	-5.16	111.83	120.30
5	F	1353	LEU	C-N-CA	-5.16	111.83	120.30
2	O	1258	GLN	OE1-CD-NE2	-5.16	117.44	122.60
7	H	427	LEU	CA-C-N	5.16	126.09	120.83
7	H	427	LEU	C-N-CA	5.16	126.09	120.83
2	O	914	GLN	OE1-CD-NE2	-5.16	117.44	122.60
5	R	750	TRP	CB-CA-C	5.16	120.34	110.17
2	C	1258	GLN	OE1-CD-NE2	-5.16	117.44	122.60
5	F	645	ILE	CA-C-O	-5.16	116.15	121.93
7	W	497	GLY	N-CA-C	5.16	119.12	112.83
3	D	528	PRO	N-CA-CB	-5.16	97.83	103.25
5	F	865	LEU	CA-C-N	-5.16	112.12	121.14
5	F	865	LEU	C-N-CA	-5.16	112.12	121.14
5	F	750	TRP	CB-CA-C	5.15	120.31	110.17
1	A	16	LYS	CA-C-N	5.14	125.69	119.98
1	A	16	LYS	C-N-CA	5.14	125.69	119.98
4	Q	975	GLN	CB-CA-C	-5.14	101.69	110.95
5	F	824	ALA	O-C-N	5.13	129.42	122.59
8	X	703	GLN	CA-C-O	-5.13	115.06	120.55
1	A	86	PHE	CB-CA-C	-5.13	102.82	110.88
1	N	23	ASN	N-CA-C	-5.13	105.77	111.36
7	H	522	TYR	N-CA-C	-5.13	105.69	111.28
5	R	824	ALA	O-C-N	5.12	129.41	122.59
5	F	916	ILE	O-C-N	5.12	128.97	122.57
4	E	975	GLN	CB-CA-C	-5.12	101.74	110.95
5	F	884	GLU	CB-CA-C	5.12	117.49	110.94
5	R	379	SER	O-C-N	5.11	127.35	121.88
3	P	528	PRO	N-CA-CB	-5.11	97.88	103.25
4	Q	258	ILE	CA-C-N	5.10	131.28	121.54
4	Q	258	ILE	C-N-CA	5.10	131.28	121.54
5	R	1354	VAL	CA-C-O	-5.10	114.96	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1376	THR	N-CA-CB	5.09	119.72	111.27
4	Q	1380	ASP	CB-CA-C	-5.09	102.67	110.81
5	R	1033	SER	N-CA-C	5.09	116.97	110.61
5	F	1133	GLU	CA-C-N	5.08	131.24	121.54
5	F	1133	GLU	C-N-CA	5.08	131.24	121.54
6	V	437	ALA	CA-C-N	5.08	131.24	121.54
6	V	437	ALA	C-N-CA	5.08	131.24	121.54
5	R	678	LEU	CA-C-N	5.08	131.11	121.97
5	R	678	LEU	C-N-CA	5.08	131.11	121.97
7	T	535	LYS	CB-CA-C	5.08	120.42	110.67
5	R	957	ALA	CA-C-N	5.07	131.23	121.54
5	R	957	ALA	C-N-CA	5.07	131.23	121.54
7	T	522	TYR	N-CA-C	-5.07	105.75	111.28
1	A	54	PHE	N-CA-C	-5.07	105.45	111.69
6	J	437	ALA	CA-C-N	5.07	131.22	121.54
6	J	437	ALA	C-N-CA	5.07	131.22	121.54
5	R	884	GLU	CB-CA-C	5.07	117.43	110.94
1	Z	51	ARG	CB-CA-C	-5.07	102.93	110.88
5	F	678	LEU	CA-C-N	5.06	131.09	121.97
5	F	678	LEU	C-N-CA	5.06	131.09	121.97
5	R	815	PHE	CA-CB-CG	5.06	118.86	113.80
8	U	725	VAL	CA-C-N	-5.06	116.89	121.65
8	U	725	VAL	C-N-CA	-5.06	116.89	121.65
5	R	1416	VAL	N-CA-C	-5.06	102.21	108.89
1	N	51	ARG	CB-CA-C	-5.06	102.94	110.88
4	E	1380	ASP	CB-CA-C	-5.06	102.72	110.81
1	M	114	ARG	CA-C-O	-5.06	115.51	120.82
5	R	1376	THR	N-CA-CB	5.06	119.66	111.27
5	F	822	CYS	CA-C-N	5.05	126.16	119.84
5	F	822	CYS	C-N-CA	5.05	126.16	119.84
1	Z	818	GLY	N-CA-C	-5.05	106.28	113.86
5	F	957	ALA	CA-C-N	5.05	131.19	121.54
5	F	957	ALA	C-N-CA	5.05	131.19	121.54
5	F	1144	VAL	N-CA-C	-5.05	105.48	112.50
5	F	815	PHE	CA-CB-CG	5.05	118.85	113.80
5	F	1307	VAL	CA-C-N	-5.05	113.05	122.09
5	F	1307	VAL	C-N-CA	-5.05	113.05	122.09
7	H	535	LYS	CB-CA-C	5.05	120.36	110.67
5	R	1276	ASP	N-CA-C	-5.04	105.97	111.82
6	J	387	TYR	CB-CA-C	5.04	118.80	110.88
5	R	1056	LEU	CA-CB-CG	5.04	133.95	116.30
8	I	727	SER	N-CA-C	-5.04	108.40	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1276	ASP	N-CA-C	-5.04	105.97	111.82
2	O	887	VAL	CA-C-N	5.04	127.03	120.28
2	O	887	VAL	C-N-CA	5.04	127.03	120.28
5	F	1416	VAL	N-CA-C	-5.03	102.25	108.89
5	F	379	SER	O-C-N	5.03	127.26	121.88
5	R	822	CYS	CA-C-N	5.03	126.12	119.84
5	R	822	CYS	C-N-CA	5.03	126.12	119.84
5	R	1164	PHE	CA-C-O	-5.03	115.72	121.00
2	C	787	ALA	N-CA-C	-5.02	105.32	111.75
8	X	793	LEU	N-CA-CB	5.02	114.63	109.51
1	N	818	GLY	N-CA-C	-5.02	106.33	113.86
5	F	1056	LEU	CA-CB-CG	5.02	133.86	116.30
5	R	1307	VAL	CA-C-N	-5.01	113.12	122.09
5	R	1307	VAL	C-N-CA	-5.01	113.12	122.09
5	F	1164	PHE	CA-C-O	-5.01	115.74	121.00
5	R	1133	GLU	CA-C-N	5.01	131.11	121.54
5	R	1133	GLU	C-N-CA	5.01	131.11	121.54
5	R	1144	VAL	N-CA-C	-5.01	105.54	112.50
2	O	1023	GLN	OE1-CD-NE2	-5.01	117.59	122.60
8	X	778	LYS	N-CA-C	-5.01	106.42	112.88

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

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	316	0
1	M	5697	0	5563	313	0
1	N	5766	0	5590	504	0
1	Z	5767	0	5596	531	0
2	C	10452	0	10392	50	0
2	O	10452	0	10392	49	0
3	D	10966	0	10812	464	0
3	P	10956	0	10803	479	0
4	E	12362	0	12566	364	0
4	Q	12362	0	12566	343	0
5	F	12239	0	11567	859	0
5	R	12239	0	11568	867	0
6	G	1533	0	1515	122	0
6	J	1492	0	1465	295	0
6	S	1529	0	1504	111	0
6	V	1492	0	1465	329	0
7	H	1811	0	1697	146	0
7	K	1808	0	1614	314	0
7	T	1811	0	1697	154	0
7	W	1805	0	1605	327	0
8	I	1418	0	1293	172	0
8	L	1366	0	1211	162	0
8	U	1418	0	1293	169	0
8	X	1366	0	1211	142	0
All	All	133827	0	130563	6374	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 (6374) 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:G:451:MET:HE1	1:M:14:THR:CG2	1.39	1.50
1:N:753:ALA:HB1	1:N:815:ILE:C	1.35	1.49
6:V:325:TYR:CE2	7:W:390:HIS:HA	1.45	1.49
1:Z:753:ALA:HB1	1:Z:815:ILE:C	1.35	1.47
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:757:ALA:CB	1:Z:819:MET:O	1.68	1.40
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
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: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
4:Q:1022:TYR:CE2	4:Q:1026:THR:HG21	1.60	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:Z:753:ALA:CB	1:Z:815:ILE:C	2.02	1.32
5:F:1561:LEU:CD2	5:R:1667:VAL:HG21	1.58	1.32
1:N:753:ALA:CB	1:N:815:ILE:C	2.02	1.32
7:H:418:GLN:HE21	8:I:718:THR:CG2	1.38	1.31
3:D:1134:SER:O	1:N:206:ASN:ND2	1.58	1.31
5:F:334:GLN:NE2	5:F:859:LYS:HZ2	1.25	1.31
1:Z:810:ALA:HB1	1:Z:836:ASP:CA	1.57	1.31
1:M:59:LYS:C	8:X:807:LEU:CB	2.03	1.31
5:R:334:GLN:NE2	5:R:859:LYS:HZ2	1.24	1.31
5:R:1633:TYR:CE2	5:R:1635:ARG:HB2	1.63	1.31
1:A:59:LYS:C	8:L:807:LEU:CB	2.03	1.30
3:D:1140:LYS:HZ2	1:N:204:GLU:CA	1.41	1.30
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
6:V:383:LYS:HZ1	8:X:756:ASN:CA	1.36	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
6:J:383:LYS:HZ2	8:L:756:ASN:CG	1.39	1.28
5:R:1116:VAL:HG11	5:R:1150:PHE:CZ	1.68	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:NZ	8:X:756:ASN:CG	1.89	1.28
5:F:675:LEU:O	5:F:679:ILE:HG12	1.13	1.27
6:J:333:ILE:O	6:J:336:PHE:CB	1.82	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:J:383:LYS:NZ	8:L:756:ASN:CG	1.89	1.26
6:J:383:LYS:HZ1	8:L:756:ASN:CA	1.34	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
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
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: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
3:D:1134:SER:O	1:N:206:ASN:CG	1.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:Z:757:ALA:HB2	1:Z:819:MET:C	1.64	1.20
1:N:757:ALA:HB2	1:N:819:MET:C	1.64	1.20
7:H:425:ARG:C	7:H:427:LEU:H	1.48	1.20
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
3:P:1136:ASP:CG	1:Z:203:ASN:O	1.83	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
7:T:425:ARG:C	7:T:427:LEU:H	1.48	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
5:R:690:GLU:CD	8:U:722:LEU:HD21	1.69	1.17
1:M:28:SER:CB	1:Z:23:ASN:HA	1.74	1.17
1:N:810:ALA:HB3	1:N:836:ASP:C	1.69	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
6:J:383:LYS:NZ	8:L:756:ASN:CB	2.07	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1309:ARG:O	4:Q:1313:ARG:HG3	1.45	1.16
6:V:383:LYS:HZ2	8:X:756:ASN:CG	1.44	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: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
1:Z:810:ALA:HB3	1:Z:836:ASP:C	1.69	1.16
3:D:1238:ARG:HA	1:Z:830:SER:HB3	1.28	1.15
5:F:690:GLU:CD	8:I:722:LEU:HD21	1.69	1.15
6:V:432:LEU:CB	8:X:782:ILE:C	2.20	1.15
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
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
5:F:1529:ALA:HB2	5:F:1611:VAL:HG13	1.21	1.14
6:J:432:LEU:CB	8:L:782:ILE:C	2.19	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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:J:383:LYS:HZ2	8:L:756:ASN:CB	1.63	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
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
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
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: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:G:327:LYS:HZ3	1:Z:46:ILE:HB	0.97	1.09
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:431:GLN:HA	7:K:500:GLU:H	1.10	1.09
1:Z:753:ALA:CB	1:Z:816:TYR:N	2.11	1.09
5:F:922:LEU:HD23	7:H:400:LYS:NZ	1.68	1.08
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
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:690:GLU:CD	8:I:722:LEU:CD2	2.28	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
1:A:814:MET:HG3	1:A:833:ILE:HD11	1.07	1.06
5:R:690:GLU:CD	8:U:722:LEU:CD2	2.28	1.06
5:F:228:PHE:N	5:F:361:LEU:CB	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:772:PRO:CA	1:A:828:THR:HG21	1.86	1.06
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
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
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
6:V:383:LYS:HZ2	8:X:756:ASN:CB	1.64	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
1:Z:116:LYS:HB3	1:Z:116:LYS:HZ3	1.20	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
7:T:532:ALA:HB2	8:U:818:ILE:HD12	1.34	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
8:U:739:GLN:O	8:U:741:ARG:N	1.91	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:325:TYR:CE2	7:W:390:HIS:CA	2.41	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
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:Z:211:LYS:NZ	1:Z:246:ASN:CG	1.94	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
6:J:383:LYS:NZ	8:L:756:ASN:OD1	1.87	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
3:D:920:GLU:CB	1:N:294:MET:SD	2.48	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
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
3:P:1020:ASN:CG	1:Z:252:GLN:HG2	1.85	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
1:Z:810:ALA:HB1	1:Z:836:ASP:HA	1.01	0.99
1:Z:810:ALA:C	1:Z:836:ASP:CB	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:U:818:ILE:C	8:U:821:ILE:HG22	1.87	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
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:810:ALA:C	1:N:836:ASP:CB	2.35	0.98
1:N:49:LEU:CD1	6:S:331:LYS:CE	2.41	0.98
3:P:1134:SER:HB3	1:Z:206:ASN:ND2	1.48	0.98
7:W:446:ARG:HH22	7:W:455:LYS:CE	1.76	0.98
1:Z:757:ALA:HB2	1:Z:819:MET:O	1.46	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
6:V:405:LEU:HD11	7:W:469:ARG:C	1.89	0.98
1:Z:133:THR:HG22	1:Z:134:LYS:N	1.77	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
6:V:383:LYS:HZ2	8:X:756:ASN:CA	1.57	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
8:I:818:ILE:C	8:I:821:ILE:HG22	1.87	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
8:L:682:ASP:HA	8:L:685:MET:HE3	1.46	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
6:J:405:LEU:HD11	7:K:469:ARG:C	1.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
1:Z:810:ALA:C	1:Z:836:ASP:HA	1.91	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
5:R:1038:LEU:C	5:R:1040:THR:H	1.74	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
8:X:682:ASP:HA	8:X:685:MET:HE3	1.46	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
5:F:1129:ASN:HD21	5:F:1132:GLU:HB3	0.82	0.95
1:N:810:ALA:C	1:N:836:ASP:HA	1.91	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
5:F:1038:LEU:C	5:F:1040:THR:H	1.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:772:PRO:HB3	1:A:828:THR:HG21	0.95	0.94
6:V:383:LYS:HZ3	8:X:756:ASN:CG	1.71	0.94
3:D:1134:SER:C	1:N:206:ASN:ND2	2.25	0.94
5:F:968:ILE:CG1	7:H:392:LEU:HD13	1.97	0.94
5:R:1034:LEU:CD2	5:R:1092:THR:HB	1.95	0.94
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
7:T:425:ARG:C	7:T:427:LEU:N	2.21	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
6:G:451:MET:HE3	1:M:14:THR:HG21	1.47	0.93
1:N:810:ALA:CB	1:N:836:ASP:C	2.37	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: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
1:Z:211:LYS:HZ2	1:Z:246:ASN:CG	1.60	0.92
5:F:837:TYR:HB2	5:F:918:PHE:HE2	1.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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
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:334:GLN:NE2	5:F:859:LYS:HZ3	1.62	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
5:R:922:LEU:HD23	7:T:400:LYS:HZ1	1.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:P:430:GLU:CD	3:P:528:PRO:HD3	1.96	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
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
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
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
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
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
8:U:822:LYS:HA	8:U:822:LYS:HZ2	1.37	0.90
3:D:430:GLU:CD	3:D:528:PRO:HD3	1.96	0.90
6:J:342:GLU:OE1	6:J:375:LYS:NZ	2.04	0.90
6:J:383:LYS:HZ2	8:L:756:ASN:CA	1.60	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
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
1:Z:117:LYS:NZ	1:Z:117:LYS:HB3	1.87	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1029:ASN:ND2	7:W:475:SER:CB	2.35	0.89
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
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
8:I:822:LYS:HZ2	8:I:822:LYS:HA	1.37	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
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
5:R:334:GLN:NE2	5:R:859:LYS:HZ3	1.63	0.88
5:F:1134:LYS:C	5:F:1136:LYS:H	1.81	0.88
7:H:425:ARG:C	7:H:427:LEU:N	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:N:753:ALA:CB	1:N:816:TYR:CA	2.50	0.88
1:Z:252:GLN:CD	1:Z:498:PHE:HE2	1.81	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
6:J:383:LYS:HZ3	8:L:756:ASN:CG	1.75	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
5:R:1134:LYS:C	5:R:1136:LYS:H	1.81	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
1:N:782:ILE:CB	1:N:839:LEU:C	2.48	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1251:ARG:HH22	5:F:1276:ASP:HB2	1.38	0.86
6:G:451:MET:CE	1:M:14:THR:CG2	2.15	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
1:Z:782:ILE:CB	1:Z:839:LEU:C	2.48	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
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:944:LEU:HD12	3:P:947:LEU:HD12	1.57	0.86
1:Z:810:ALA:CB	1:Z:836:ASP:C	2.37	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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:G:327:LYS:HZ3	1:Z:46:ILE:CB	1.87	0.85
5:R:1167:LYS:O	5:R:1167:LYS:HD3	1.76	0.85
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
3:D:1140:LYS:HZ2	1:N:204:GLU:HA	0.68	0.84
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:333:ILE:C	6:J:336:PHE:CB	2.50	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
6:V:333:ILE:C	6:V:336:PHE:CB	2.50	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
3:D:1140:LYS:HZ1	1:N:204:GLU:HA	1.42	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
3:D:1140:LYS:NZ	1:N:204:GLU:CA	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:405:LEU:CD1	7:K:470:ALA:N	2.40	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
6:V:432:LEU:CB	8:X:782:ILE:CA	2.55	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: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
1:N:84:ASP:CG	6:S:449:LEU:HD23	2.03	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:M:787:HIS:CE1	1:M:838:SER:O	2.31	0.83
6:J:405:LEU:CD1	7:K:469:ARG:HG2	2.08	0.83
5:F:1084:LEU:HA	5:F:1156:TYR:HH	1.42	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: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:G:449:LEU:HD23	1:Z:84:ASP:CG	2.03	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
3:D:1136:ASP:HB2	1:N:203:ASN:HD22	1.44	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
2:C:1258:GLN:HG2	2:C:1299:LYS:HZ1	1.40	0.82
5:F:227:ASP:HA	5:F:379:SER:CB	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
7:W:483:VAL:CB	7:W:493:SER:C	2.53	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
5:F:159:LYS:HZ2	5:F:363:ASP:CB	1.93	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
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
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
7:W:446:ARG:NH2	7:W:455:LYS:HZ1	1.76	0.81
1:N:753:ALA:HA	1:N:816:TYR:CA	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
7:K:483:VAL:CB	7:K:493:SER:C	2.53	0.81
1:N:753:ALA:CA	1:N:816:TYR:CA	2.57	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:N:810:ALA:C	1:N:836:ASP:CA	2.54	0.80
1:A:772:PRO:HB3	1:A:828:THR:CB	2.09	0.80
7:K:321:ALA:C	7:K:348:ILE:HD11	2.06	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:334:GLN:HG2	5:R:860:ASN:ND2	1.85	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
1:Z:810:ALA:C	1:Z:836:ASP:CA	2.54	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
7:W:321:ALA:C	7:W:348:ILE:HD11	2.06	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
6:G:327:LYS:HZ2	1:Z:46:ILE:HA	1.48	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
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:1134:SER:C	1:N:206:ASN:HD22	1.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:V:390:ILE:C	6:V:394:ILE:HG23	2.08	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
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
1:Z:753:ALA:HB2	1:Z:815:ILE:C	2.08	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:753:ALA:C	1:N:816:TYR:HA	2.09	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
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
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
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:753:ALA:C	1:Z:816:TYR:HA	2.08	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:21:LYS:C	1:M:21:LYS:HD3	2.08	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
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:746:PRO:CB	1:Z:752:SER:C	2.59	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
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:746:PRO:CB	1:N:752:SER:C	2.59	0.75
1:N:757:ALA:HB2	1:N:819:MET:O	1.46	0.75
1:N:768:VAL:HA	1:N:771:ILE:HD12	1.67	0.75
5:R:376:ASN:CB	5:R:381:THR:C	2.60	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:900:LEU:C	5:R:900:LEU:HD12	2.12	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:900:LEU:C	5:F:900:LEU:HD12	2.12	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
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
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:F:1294:LYS:O	5:F:1295:ALA:C	2.28	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
1:N:753:ALA:HB2	1:N:815:ILE:C	2.08	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
7:W:387:GLN:HA	7:W:387:GLN:HE21	1.51	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:S:430:LEU:C	7:T:503:ASN:CB	2.61	0.74
6:V:390:ILE:HG23	6:V:394:ILE:CG2	2.18	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
1:Z:810:ALA:HB1	1:Z:835:ILE:C	2.12	0.74
6:J:350:PHE:CD1	7:K:419:LEU:HD12	2.23	0.74
1:N:810:ALA:HB1	1:N:835:ILE:C	2.12	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
5:F:376:ASN:CB	5:F:381:THR:C	2.59	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
5:R:1294:LYS:O	5:R:1295:ALA:C	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:E:224:CYS:O	4:E:228:ASN:HB2	1.87	0.73
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
5:R:1084:LEU:HA	5:R:1156:TYR:HH	1.51	0.73
7:T:426:GLY:CA	8:U:736:ASN:H	1.98	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:G:430:LEU:C	7:H:503:ASN:CB	2.61	0.73
8:I:821:ILE:HD13	8:I:821:ILE:C	2.13	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
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
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
7:W:483:VAL:H	7:W:493:SER:C	1.96	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
8:U:821:ILE:C	8:U:821:ILE:HD13	2.13	0.73
5:F:1216:PHE:CE2	5:F:1282:ALA:HB2	2.23	0.73
5:F:1558:ASP:C	5:R:1681:ASN:CB	2.61	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
7:K:483:VAL:H	7:K:493:SER:C	1.96	0.72
1:N:145:ASN:CB	5:R:1669:LEU:CB	2.67	0.72
6:J:388:CYS:SG	7:K:453:LEU:C	2.72	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:R:1559:LEU:C	5:R:1559:LEU:HD12	2.14	0.72
1:Z:774:LEU:HD23	1:Z:774:LEU:C	2.14	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
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
4:Q:973:THR:OG1	4:Q:974:GLY:N	2.14	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
3:D:1140:LYS:HZ2	1:N:204:GLU:CB	2.02	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:429:LEU:C	7:K:429:LEU:HD12	2.15	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
1:N:774:LEU:HD23	1:N:774:LEU:C	2.14	0.72
3:P:490:LYS:HE2	3:P:533:SER:HB3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Z:746:PRO:O	1:Z:812:GLN:C	2.33	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
3:P:472:VAL:HG23	3:P:474:PRO:HD2	1.70	0.72
5:R:926:LEU:C	5:R:926:LEU:HD12	2.15	0.72
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
7:W:509:ILE:C	7:W:509:ILE:HD12	2.15	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
7:T:527:LEU:HD23	7:T:527:LEU:C	2.15	0.71
8:U:739:GLN:C	8:U:741:ARG:H	1.97	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
1:N:252:GLN:CD	1:N:498:PHE:CD2	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:426:GLY:HA2	8:X:738:ASP:HB3	1.72	0.71
1:Z:49:LEU:HD22	1:Z:49:LEU:C	2.15	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
5:F:926:LEU:C	5:F:926:LEU:HD12	2.15	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
7:T:425:ARG:O	7:T:427:LEU:N	2.19	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
5:F:1134:LYS:C	5:F:1136:LYS:N	2.45	0.71
6:J:432:LEU:CB	8:L:782:ILE:HA	2.19	0.71
7:K:538:LYS:C	8:L:822:LYS:CB	2.64	0.71
5:R:334:GLN:CB	5:R:860:ASN:CG	2.59	0.71
6:V:389:ARG:O	6:V:389:ARG:NH1	2.23	0.71
7:W:429:LEU:C	7:W:429:LEU:HD12	2.15	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:S:295:LYS:C	6:V:363:LYS:HZ2	1.99	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
6:G:295:LYS:C	6:J:363:LYS:NZ	2.48	0.71
7:H:425:ARG:O	7:H:427:LEU:N	2.19	0.71
7:H:527:LEU:HD23	7:H:527:LEU:C	2.15	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
1:N:746:PRO:O	1:N:812:GLN:C	2.32	0.71
5:R:1216:PHE:CE2	5:R:1282:ALA:HB2	2.23	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
5:R:837:TYR:CB	5:R:918:PHE:HE2	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1435:LYS:CE	5:R:1484:ARG:NH2	2.53	0.71
6:S:295:LYS:C	6:V:363:LYS:NZ	2.48	0.71
8:U:822:LYS:HZ2	8:U:822:LYS:CA	2.04	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
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
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
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
7:W:321:ALA:O	7:W:339:MET:HE1	1.91	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
8:I:822:LYS:HZ2	8:I:822:LYS:CA	2.05	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
7:K:321:ALA:O	7:K:339:MET:HE1	1.91	0.70
1:N:46:ILE:HA	6:S:327:LYS:HZ2	1.56	0.70
1:N:49:LEU:HD22	1:N:49:LEU:C	2.15	0.70
1:N:116:LYS:HE2	1:N:116:LYS:C	2.17	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:116:LYS:HB3	1:Z:116:LYS:NZ	1.95	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
6:J:405:LEU:CD1	7:K:469:ARG:C	2.65	0.70
1:N:255:GLU:HB2	1:N:480:GLN:NE2	2.07	0.70
5:R:159:LYS:HZ2	5:R:363:ASP:CB	2.03	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:383:LYS:HZ3	8:L:756:ASN:CB	1.99	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
3:D:475:GLU:O	3:D:486:GLN:NE2	2.24	0.70
6:J:376:LYS:HZ1	8:L:756:ASN:HD22	1.40	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:S:470:LEU:HB2	7:T:538:LYS:NZ	2.05	0.69
1:Z:116:LYS:HE2	1:Z:116:LYS:C	2.17	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
8:U:795:LYS:HZ2	8:U:795:LYS:C	2.00	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
5:R:1283:LYS:O	5:R:1284:SER:C	2.32	0.69
7:T:412:ILE:O	7:T:415:LEU:HB3	1.92	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: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: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
6:G:470:LEU:HB2	7:H:538:LYS:HZ3	1.56	0.69
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
1:N:146:LEU:HD12	1:N:146:LEU:C	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:S:295:LYS:CD	6:V:363:LYS:HZ3	2.05	0.69
1:Z:117:LYS:HB3	1:Z:117:LYS:HZ1	1.57	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
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:Z:146:LEU:HD12	1:Z:146:LEU:C	2.17	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
8:I:731:GLY:C	8:I:733:ALA:H	2.01	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
5:R:1134:LYS:C	5:R:1136:LYS:N	2.45	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
5:F:334:GLN:HE21	5:F:859:LYS:HZ2	0.80	0.68
8:I:738:ASP:HB2	8:I:740:LYS:HE2	1.74	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
5:F:1129:ASN:CG	5:F:1132:GLU:HB3	2.17	0.68
6:G:396:THR:CB	1:Z:89:ASP:OD2	2.41	0.68
1:M:92:THR:O	6:V:400:GLY:C	2.37	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
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
5:F:922:LEU:HD23	7:H:400:LYS:HZ3	1.54	0.68
5:F:1543:LEU:C	5:F:1543:LEU:HD12	2.18	0.68
6:G:451:MET:HE1	1:M:14:THR:HG22	1.68	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
5:F:1283:LYS:O	5:F:1284:SER:C	2.32	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
8:L:728:THR:HB	8:L:734:ALA:HB2	1.76	0.68
7:W:308:LEU:HD13	7:W:355:PHE:HE2	1.58	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:F:690:GLU:CD	8:I:722:LEU:HD23	2.19	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
5:R:1363:ILE:C	5:R:1363:ILE:HD12	2.19	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:333:ILE:O	6:J:336:PHE:C	2.37	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
8:U:731:GLY:C	8:U:733:ALA:H	2.01	0.67
6:V:390:ILE:O	6:V:394:ILE:N	2.19	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
3:P:1136:ASP:OD2	1:Z:203:ASN:C	2.36	0.67
5:R:928:LEU:H	5:R:928:LEU:CD1	1.92	0.67
5:R:1543:LEU:C	5:R:1543:LEU:HD12	2.18	0.67
6:V:297:ASP:OD2	7:W:362:ASN:ND2	2.28	0.67
6:V:333:ILE:O	6:V:336:PHE:C	2.37	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: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
5:F:334:GLN:HG3	5:F:854:GLU:CD	2.18	0.67
7:K:513:LEU:CD2	8:L:800:HIS:HE1	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:456:THR:C	7:W:458:GLU:H	2.03	0.67
7:W:508:LYS:HZ2	1:Z:12:SER:HG	1.40	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
3:D:977:LYS:CE	1:N:316:ALA:N	2.57	0.67
5:F:1363:ILE:C	5:F:1363:ILE:HD12	2.19	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: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
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
5:R:667:SER:HA	5:R:670:LYS:HB3	1.76	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
5:R:1129:ASN:CG	5:R:1132:GLU:HB3	2.17	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
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
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
5:F:334:GLN:CB	5:F:860:ASN:CG	2.59	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
1:Z:25:LEU:HD13	1:Z:25:LEU:C	2.20	0.66
7:K:456:THR:C	7:K:458:GLU:H	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T:404:ARG:O	7:T:408:ILE:HB	1.96	0.66
1:Z:211:LYS:HZ3	1:Z:246:ASN:CG	2.00	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
5:F:1305:SER:C	5:F:1307:VAL:H	2.03	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
1:N:46:ILE:HD12	1:N:46:ILE:C	2.21	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
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:310:MET:HE2	5:R:453:ILE:HG22	1.78	0.66
5:R:334:GLN:HG3	5:R:854:GLU:CD	2.18	0.66
5:R:809:LEU:HG	5:R:810:VAL:HG13	1.77	0.66
7:W:446:ARG:HH22	7:W:455:LYS:HZ1	1.28	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
5:R:1305:SER:C	5:R:1307:VAL:H	2.03	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
7:W:509:ILE:HG22	1:Z:12:SER:CB	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:I:739:GLN:C	8:I:741:ARG:H	1.97	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
1:Z:46:ILE:HD12	1:Z:46:ILE:C	2.21	0.65
1:Z:211:LYS:HZ2	1:Z:246:ASN:ND2	1.95	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:751:LEU:C	1:N:753:ALA:H	2.03	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
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:311:PHE:CD2	7:K:341:LYS:NZ	2.58	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
5:F:389:LEU:C	5:F:389:LEU:HD13	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
6:G:451:MET:HE1	1:M:14:THR:HG21	0.65	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
7:W:529:LYS:HD2	7:W:529:LYS:C	2.21	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: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
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:310:MET:HE2	5:F:453:ILE:HG22	1.78	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
5:F:920:ILE:HB	5:F:924:ALA:C	2.21	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:389:LEU:HD13	5:R:389:LEU:C	2.22	0.64
5:R:1303:LEU:O	5:R:1303:LEU:HD22	1.96	0.64
1:Z:751:LEU:C	1:Z:753:ALA:H	2.03	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
6:V:377:ILE:HG22	6:V:378:HIS:HD2	1.62	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: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
6:V:371:LYS:HZ2	6:V:371:LYS:C	2.04	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
5:R:920:ILE:HB	5:R:924:ALA:C	2.21	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1303:LEU:HD22	5:R:1303:LEU:C	2.23	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
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
8:U:778:LYS:HA	8:U:778:LYS:HZ2	1.62	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
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
6:V:405:LEU:CD1	7:W:469:ARG:C	2.65	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: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
8:U:737:ASN:OD1	8:U:738:ASP:CG	2.41	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
5:R:633:LYS:HZ2	5:R:635:PHE:HB2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:387:GLN:HA	7:W:387:GLN:NE2	2.11	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
1:Z:757:ALA:CB	1:Z:819:MET:C	2.39	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
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
5:R:883:VAL:O	8:U:761:ASN:CG	2.41	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:1110:MET:HE2	5:R:1157:TRP:CZ2	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
5:F:883:VAL:O	8:I:761:ASN:CG	2.42	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:1110:MET:HE2	5:F:1157:TRP:CZ2	2.34	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
1:Z:751:LEU:C	1:Z:753:ALA:N	2.57	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:334:GLN:CG	5:F:854:GLU:CD	2.72	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:334:GLN:CG	5:R:854:GLU:CD	2.72	0.63
5:R:1314:VAL:HG11	5:R:1373:ASP:CB	2.29	0.63
5:R:1406:TYR:HH	5:R:1452:SER:HG	1.44	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:N:822:TYR:HB3	1:N:824:MET:HE1	1.81	0.62
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
3:P:1136:ASP:HB3	1:Z:203:ASN:C	2.19	0.62
7:W:321:ALA:HA	7:W:348:ILE:HG13	1.76	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:1635:ARG:O	5:F:1639:GLY:CA	2.46	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
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
1:A:128:LEU:HD13	4:E:1260:TYR:HH	1.64	0.62
4:E:1640:ILE:O	4:E:1644:ILE:HB	1.99	0.62
8:I:737:ASN:OD1	8:I:738:ASP:CG	2.41	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
8:I:795:LYS:HZ2	8:I:795:LYS:C	2.05	0.62
7:K:338:ALA:HA	7:K:341:LYS:HE2	1.80	0.62
1:N:751:LEU:C	1:N:753:ALA:N	2.57	0.62
3:P:929:PHE:O	3:P:932:ILE:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:V:402:ASP:C	6:V:404:ASP:H	2.08	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:633:LYS:HZ2	5:F:635:PHE:HB2	1.63	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
7:W:321:ALA:C	7:W:348:ILE:CD1	2.69	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
5:F:1303:LEU:HD22	5:F:1303:LEU:C	2.23	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
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
6:J:371:LYS:HZ2	6:J:371:LYS:C	2.06	0.62
7:K:321:ALA:C	7:K:348:ILE:CD1	2.69	0.62
1:N:88:LYS:HZ3	8:U:805:ARG:CB	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:23:ASN:C	1:N:25:LEU:H	2.08	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
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
7:W:400:LYS:HD2	7:W:400:LYS:C	2.20	0.61
2:C:867:LEU:HD22	2:C:888:LEU:HD21	1.82	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:22:MET:HE1	4:Q:122:ILE:HG21	1.81	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:690:GLU:CD	8:U:722:LEU:HD23	2.19	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
5:F:1314:VAL:HG11	5:F:1373:ASP:CB	2.29	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:766:ASN:C	1:N:770:ASN:HD22	2.09	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:S:357:LEU:O	8:U:732:ALA:C	2.44	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
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: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
8:U:778:LYS:HD3	8:U:778:LYS:C	2.26	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
1:Z:822:TYR:HB3	1:Z:824:MET:HE1	1.81	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
4:E:22:MET:HE1	4:E:122:ILE:HG21	1.81	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
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
7:K:385:GLN:HE21	7:K:385:GLN:CA	2.12	0.61
1:N:84:ASP:CG	6:S:449:LEU:HA	2.26	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
3:D:1241:GLY:CA	1:Z:826:ARG:O	2.48	0.60
6:G:357:LEU:O	8:I:732:ALA:C	2.44	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:M:779:LEU:C	1:M:835:ILE:CB	2.74	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
2:C:1388:HIS:C	4:E:1331:LEU:HD11	2.26	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
8:I:778:LYS:HD3	8:I:778:LYS:C	2.26	0.60
7:K:312:VAL:HG12	7:K:361:ARG:HH21	1.66	0.60
7:K:400:LYS:HD2	7:K:400:LYS:C	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:G:449:LEU:HA	1:Z:84:ASP:CG	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
6:J:384:LEU:HD23	6:J:384:LEU:C	2.26	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: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
1:A:779:LEU:C	1:A:835:ILE:CB	2.74	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:1157:TRP:CD1	5:F:1160:TYR:HE1	2.20	0.60
5:F:1435:LYS:HZ3	5:F:1484:ARG:NH2	1.98	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
4:Q:1005:LEU:HD13	4:Q:1046:LYS:HZ1	1.67	0.60
5:R:1216:PHE:CE2	5:R:1282:ALA:HB1	2.29	0.60
5:R:1309:LEU:HD22	5:R:1309:LEU:C	2.27	0.60
1:Z:766:ASN:C	1:Z:770:ASN:HD22	2.09	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:334:SER:C	6:J:337:LYS:H	2.09	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:1093:SER:O	5:R:1096:LEU:CB	2.50	0.60
6:V:384:LEU:HD23	6:V:384:LEU:C	2.26	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
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: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
6:J:389:ARG:HH22	6:J:393:ASP:CG	2.10	0.59
2:O:1388:HIS:C	4:Q:1331:LEU:HD11	2.26	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
3:D:977:LYS:HE2	1:N:315:LYS:C	2.27	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
5:F:1309:LEU:HD22	5:F:1309:LEU:C	2.27	0.59
1:M:208:LEU:O	1:M:212:PHE:HB2	2.02	0.59
6:V:383:LYS:HZ3	8:X:756:ASN:CB	1.97	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:I:778:LYS:HZ2	8:I:778:LYS:HA	1.67	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
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
7:T:426:GLY:HA3	8:U:735:ASN:C	2.28	0.59
8:U:795:LYS:C	8:U:795:LYS:HD3	2.28	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
8:I:795:LYS:C	8:I:795:LYS:HD3	2.28	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
5:R:922:LEU:CD2	7:T:400:LYS:HZ1	2.09	0.59
5:R:1227:THR:CB	7:T:475:SER:HG	2.13	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
6:J:324:GLN:OE1	6:J:328:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:N:252:GLN:CD	1:N:498:PHE:CE2	2.79	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
1:Z:753:ALA:CB	1:Z:815:ILE:O	2.29	0.59
3:D:641:VAL:HB	3:D:648:GLU:HG2	1.83	0.59
3:D:1377:ASN:CG	1:Z:758:GLN:HE21	2.11	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
5:R:1473:ASN:OD1	5:R:1476:LEU:N	2.34	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:333:GLU:C	5:R:335:ASP:H	2.11	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:1435:LYS:HZ3	5:R:1484:ARG:NH2	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
7:W:444:LEU:C	7:W:447:SER:CB	2.75	0.58
1:A:589:LEU:HA	1:A:603:VAL:HG22	1.83	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
5:F:1038:LEU:C	5:F:1040:THR:N	2.45	0.58
6:G:401:ILE:O	6:G:405:LEU:HB2	2.03	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: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
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
7:H:426:GLY:HA3	8:I:735:ASN:C	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
7:W:508:LYS:HZ1	1:Z:16:LYS:HB2	1.68	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
5:F:199:GLY:O	5:F:203:LYS:NZ	2.37	0.58
5:F:909:LEU:O	7:H:403:SER:C	2.47	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
7:T:418:GLN:CD	8:U:718:THR:HG21	2.26	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
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
5:R:334:GLN:HE21	5:R:859:LYS:HZ2	0.79	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
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
6:J:388:CYS:C	6:J:391:LEU:HB2	2.28	0.58
1:N:133:THR:O	1:N:135:ASP:N	2.37	0.58
1:N:758:GLN:HE21	3:P:1377:ASN:CG	2.11	0.58
5:R:935:GLN:CB	5:R:998:LEU:HD23	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
4:E:1259:PHE:CD1	4:E:1259:PHE:C	2.81	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
8:I:785:ASN:CB	1:Z:112:TYR:HA	2.34	0.57
7:K:444:LEU:C	7:K:447:SER:CB	2.75	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
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:333:GLU:C	5:F:335:ASP:N	2.61	0.57
5:F:333:GLU:C	5:F:335:ASP:H	2.11	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
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:334:SER:C	6:V:337:LYS:H	2.09	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:706:ILE:HB	1:A:711:LYS:HE2	1.86	0.57
6:G:295:LYS:C	6:J:363:LYS:HZ2	2.12	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
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:1110:MET:HE1	5:F:1161:LEU:HD11	1.86	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
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:1360:LEU:C	5:F:1362:ASP:H	2.13	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
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
4:Q:1259:PHE:C	4:Q:1259:PHE:CD1	2.81	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:E:1005:LEU:HD13	4:E:1046:LYS:HZ1	1.68	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
1:N:757:ALA:CB	1:N:819:MET:C	2.39	0.57
5:R:389:LEU:H	5:R:389:LEU:CD1	2.16	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
7:H:522:TYR:CB	1:Z:54:PHE:C	2.77	0.57
1:N:334:TRP:HA	1:N:337:ILE:HD12	1.86	0.57
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:909:LEU:O	7:T:403:SER:C	2.47	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:333:GLU:C	5:R:335:ASP:N	2.61	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)
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
3:D:1019:ARG:C	1:N:251:ALA:H	2.05	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
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:54:PHE:C	7:T:522:TYR:CB	2.77	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
1:M:607:ARG:HD2	1:M:610:LEU:HD12	1.87	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1403:SER:OG	5:F:1451:THR:O	2.22	0.56
6:G:295:LYS:C	6:J:363:LYS:HZ1	2.10	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:977:LYS:HE2	1:Z:315:LYS:C	2.30	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
5:R:1360:LEU:C	5:R:1362:ASP:H	2.12	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:139:PHE:CD1	1:A:139:PHE:C	2.84	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:1150:PHE:CD1	5:F:1150:PHE:C	2.83	0.56
5:F:1431:ARG:HD2	5:F:1474:PHE:H	1.70	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
5:R:1559:LEU:HD12	5:R:1559:LEU:O	2.04	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
2:C:1258:GLN:CD	2:C:1299:LYS:HE3	2.30	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:O:1258:GLN:CD	2:O:1299:LYS:HE3	2.30	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
1:Z:139:PHE:CD1	1:Z:139:PHE:C	2.84	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: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
5:R:1150:PHE:C	5:R:1150:PHE:CD1	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S:351:SER:O	6:S:355:GLN:NE2	2.39	0.56
7:W:508:LYS:NZ	1:Z:12:SER:OG	2.29	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:616:VAL:O	5:F:620:THR:OG1	2.24	0.55
5:F:1068:ILE:HG22	5:F:1068:ILE:O	2.05	0.55
5:F:1300:LEU:HD23	5:F:1300:LEU:C	2.31	0.55
6:J:309:PRO:HA	6:J:312:VAL:HB	1.88	0.55
1:M:139:PHE:C	1:M:139:PHE:CD1	2.84	0.55
1:M:776:ILE:HD11	1:M:828:THR:HA	1.88	0.55
1:N:139:PHE:CD1	1:N:139:PHE:C	2.84	0.55
1:N:589:LEU:HA	1:N:603:VAL:HG22	1.88	0.55
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
7:W:402:GLN:C	7:W:402:GLN:HE21	2.14	0.55
1:Z:288:ASN:O	1:Z:292:LYS:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:A:140:ILE:CG2	4:E:1393:LYS:NZ	2.61	0.55
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
6:J:364:ILE:C	7:K:424:ASN:HD22	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1147:PHE:CD1	5:R:1147:PHE:C	2.85	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
7:W:522:TYR:C	7:W:522:TYR:CD1	2.85	0.55
1:Z:652:ILE:HA	1:Z:655:THR:HG22	1.87	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
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
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
7:H:418:GLN:CD	8:I:718:THR:HG21	2.26	0.55
6:J:324:GLN:OE1	6:J:327:LYS:HE3	2.06	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
1:N:820:ILE:O	1:N:821:GLN:C	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:R:1674:CYS:C	5:R:1676:LEU:H	2.13	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:1356:LEU:O	5:F:1356:LEU:HG	2.03	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
4:Q:1484:LYS:HZ2	4:Q:1486:GLU:HB2	1.72	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:Z:136:PHE:C	1:Z:136:PHE:CD1	2.85	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
3:D:242:MET:O	3:D:259:THR:OG1	2.21	0.55
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
8:I:751:LEU:HA	8:I:754:ASN:HD22	1.72	0.55
6:J:404:ASP:C	6:J:406:PHE:H	2.13	0.55
7:K:402:GLN:HE21	7:K:402:GLN:C	2.14	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:R:273:VAL:HB	5:R:384:MET:HE1	1.89	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
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:1167:LYS:HD3	5:F:1167:LYS:C	2.30	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: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
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
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
5:R:1300:LEU:C	5:R:1300:LEU:HD23	2.32	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
7:W:456:THR:C	7:W:458:GLU:N	2.64	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:273:VAL:HB	5:F:384:MET:HE1	1.89	0.54
5:F:1088:ARG:HH12	8:I:785:ASN:HA	1.71	0.54
5:F:1200:PRO:O	5:F:1299:ASN:OD1	2.26	0.54
5:F:1674:CYS:C	5:F:1676:LEU:H	2.13	0.54
6:G:327:LYS:HZ2	1:Z:46:ILE:CA	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:Z:12:SER:OG	1:Z:15:SER:OG	2.16	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
1:M:128:LEU:CD1	4:Q:1260:TYR:CE2	2.89	0.54
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
1:N:761:SER:C	1:N:763:LEU:H	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:103:LEU:HG	3:D:107:TYR:CE2	2.41	0.54
3:D:1140:LYS:NZ	1:N:204:GLU:CB	2.67	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
5:F:554:SER:OG	5:F:555:TRP:N	2.39	0.54
5:F:1517:ALA:O	5:F:1521:THR:OG1	2.24	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: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
6:S:289:GLN:CD	6:V:352:VAL:HG22	2.32	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
1:Z:820:ILE:O	1:Z:821:GLN:C	2.49	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
3:P:1020:ASN:CG	1:Z:252:GLN:CG	2.73	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1674:CYS:C	5:F:1676:LEU:N	2.65	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
4:E:1259:PHE:C	4:E:1259:PHE:HD1	2.16	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
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
6:V:364:ILE:C	7:W:424:ASN:ND2	2.65	0.54
6:V:364:ILE:C	7:W:424:ASN:HD22	2.15	0.54
7:W:509:ILE:HD12	7:W:509:ILE:O	2.08	0.54
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1259:PHE:C	4:Q:1259:PHE:HD1	2.16	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:136:PHE:CD1	1:N:136:PHE:C	2.85	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:K:456:THR:C	7:K:458:GLU:N	2.64	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
3:P:1020:ASN:HA	1:Z:249:ARG:C	2.33	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:1058:ALA:C	5:R:1060:LEU:H	2.16	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
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
1:A:642:LEU:HA	1:A:645:GLN:CD	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: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: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:1370:LEU:C	5:R:1371:ILE:HG12	2.34	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
1:M:642:LEU:HA	1:M:645:GLN:CD	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:829:TYR:C	1:M:829:TYR:CD1	2.85	0.53
1:N:87:ILE:N	1:N:87:ILE:CD1	2.72	0.53
5:R:616:VAL:O	5:R:620:THR:OG1	2.24	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
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
7:H:303:THR:OG1	7:H:329:HIS:O	2.22	0.53
6:J:364:ILE:C	7:K:424:ASN:ND2	2.65	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:23:ASN:C	1:N:25:LEU:N	2.64	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
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
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:170:LYS:NZ	3:P:212:GLN:O	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
7:T:390:HIS:O	7:T:394:THR:OG1	2.24	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
7:W:430:GLY:C	7:W:432:ALA:N	2.65	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:623:ILE:HG23	1:Z:624:THR:HG23	1.90	0.53
1:Z:761:SER:C	1:Z:763:LEU:H	2.15	0.53
1:Z:799:LYS:HA	1:Z:802:GLN:HE21	1.73	0.53
3:D:170:LYS:NZ	3:D:212:GLN:O	2.37	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
5:F:1024:LEU:HD22	5:F:1049:LEU:HD23	1.90	0.53
7:K:427:LEU:N	7:K:428:PRO:CD	2.72	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
5:R:929:TYR:C	5:R:931:GLY:H	2.17	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:936:ILE:O	5:F:940:ASN:ND2	2.42	0.53
6:G:470:LEU:CB	7:H:538:LYS:HZ1	1.95	0.53
8:I:739:GLN:C	8:I:741:ARG:N	2.61	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: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

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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
7:K:337:GLN:O	7:K:341:LYS:CD	2.56	0.53
7:K:430:GLY:C	7:K:432:ALA:N	2.65	0.53
1:N:25:LEU:HD23	1:N:25:LEU:C	2.33	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
7:W:446:ARG:HD3	7:W:446:ARG:C	2.34	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
5:F:1147:PHE:CD1	5:F:1147:PHE:C	2.85	0.53
7:H:426:GLY:CA	8:I:735:ASN:C	2.82	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
1:A:32:LEU:C	1:A:32:LEU:HD23	2.33	0.52
5:F:1048:LEU:O	5:F:1051:SER:OG	2.26	0.52
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:127:GLN:HA	1:N:127:GLN:NE2	2.16	0.52
1:N:133:THR:O	1:N:134:LYS:C	2.52	0.52
1:N:252:GLN:NE2	1:N:498:PHE:CD2	2.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:958:SER:HB3	5:R:962:ARG:HA	1.91	0.52
6:V:406:PHE:CD1	6:V:406:PHE:C	2.86	0.52
1:A:133:THR:O	1:A:134:LYS:C	2.52	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
5:F:544:TYR:HH	5:F:629:SER:HG	1.53	0.52
6:J:383:LYS:CE	8:L:756:ASN:HA	2.23	0.52
7:K:446:ARG:C	7:K:446:ARG:HD3	2.34	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
3:P:585:ILE:HG21	3:P:593:VAL:HB	1.90	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
5:R:1517:ALA:O	5:R:1521: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:929:TYR:C	5:F:931:GLY:H	2.17	0.52
5:F:1672:MET:CB	1:Z:149:ALA:CB	2.84	0.52
6:J:376:LYS:HD2	6:J:376:LYS:C	2.34	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:123:MET:SD	1:N:123:MET:C	2.93	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: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:Z:123:MET:SD	1:Z:123:MET:C	2.93	0.52
1:A:83:VAL:HA	1:A:86:PHE:CD2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:320:GLU:CD	5:F:351:HIS:CE1	2.87	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:1058:ALA:C	5:F:1060:LEU:N	2.67	0.52
5:F:1363:ILE:CG2	1:Z:125:ILE:CD1	2.85	0.52
5:F:1370:LEU:C	5:F:1371:ILE:HG12	2.33	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
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
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:376:LYS:HD2	6:V:376:LYS:C	2.34	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
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: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
8:U:682:ASP:HA	8:U:685:MET:HE3	1.90	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:583:SER:O	5:F:583:SER:OG	2.28	0.52
5:F:836:ILE:N	5:F:836:ILE:CD1	2.72	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: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
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
5:R:1403:SER:OG	5:R:1451:THR:O	2.22	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
1:M:133:THR:O	1:M:134:LYS:C	2.52	0.52
2:O:786:THR:N	2:O:789:ASP:HB2	2.24	0.52
4:Q:33:ASP:OD1	4:Q:33:ASP:N	2.42	0.52
5:R:44:ASN:OD1	5:R:44:ASN:N	2.40	0.52
5:R:320:GLU:CD	5:R:351:HIS:CE1	2.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:R:177:GLN:O	5:R:181:PHE:HB2	2.10	0.52
5:R:900:LEU:C	5:R:900:LEU:CD1	2.82	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
1:A:829:TYR:CD1	1:A:829:TYR:C	2.85	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:1058:ALA:C	5:F:1060:LEU:H	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1674:CYS:C	5:R:1676:LEU:N	2.65	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
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
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:1038:LEU:C	5:R:1040:THR:N	2.45	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
5:F:726:SER:O	5:F:726:SER:OG	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:I:682:ASP:HA	8:I:685:MET:HE3	1.90	0.51
6:J:389:ARG:CZ	6:J:389:ARG:HB3	2.40	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: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
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
4:E:1380:ASP:C	4:E:1382:THR:N	2.68	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:1550:LEU:HD12	5:F:1604:ILE:HD13	1.87	0.51
6:J:371:LYS:C	6:J:371:LYS:CE	2.84	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: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:439:HIS:HD1	1:N:457:TYR:HH	1.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1380:ASP:C	4:Q:1382:THR:N	2.68	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:371:LYS:C	6:V:371:LYS:CE	2.84	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:Z:138:ASN:C	1:Z:138:ASN:HD22	2.19	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
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
6:J:406:PHE:CD1	6:J:406:PHE:C	2.87	0.51
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:339:MET:SD	7:W:342:LYS:NZ	2.68	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
4:E:1484:LYS:HZ2	4:E:1486:GLU:HB2	1.75	0.51
5:F:336:LYS:HZ1	5:F:778:LEU:HD12	1.76	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
8:I:795:LYS:CA	8:I:795:LYS:NZ	2.73	0.51
1:M:138:ASN:C	1:M:138:ASN:HD22	2.19	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:1058:ALA:C	5:R:1060:LEU:N	2.67	0.51
5:R:1177:VAL:HA	5:R:1180:TYR:CB	2.40	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:133:THR:O	1:Z:134:LYS:C	2.52	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:320:GLU:CD	5:F:351:HIS:HD1	2.19	0.51
5:F:1427:LEU:HD22	5:F:1466:LEU:HG	1.91	0.51
7:H:298:SER:OG	7:H:305:LYS:O	2.25	0.51
6:J:433:LYS:CA	7:K:499:GLY:CA	2.88	0.51
2:O:229:ASP:CG	2:O:252:LYS:HE2	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
1:N:138:ASN:HD22	1:N:138:ASN:C	2.19	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
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:399:LEU:HD12	7:W:399:LEU:C	2.35	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
6:J:431:GLN:C	7:K:499:GLY:H	2.19	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
7:K:379:ILE:C	7:K:382:LYS:H	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:399:LEU:HD12	7:K:399:LEU:C	2.35	0.51
1:M:626:GLN:O	1:M:630:ARG:HG2	2.11	0.51
1:N:807:LYS:CB	1:N:837:VAL: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:1363:ILE:HD12	5:R:1364:TYR:N	2.25	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
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:379:ILE:C	7:W:382:LYS:H	2.19	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:550:SER:OG	4:E:551:ASN:N	2.44	0.51
4:E:1259:PHE:HD1	4:E:1259:PHE:O	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
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
7:H:390:HIS:O	7:H:394:THR:OG1	2.24	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
7:K:385:GLN:CA	7:K:385:GLN:NE2	2.72	0.51
1:M:24:GLU:HB3	1:Z:26:LEU:C	2.36	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
3:P:1020:ASN:CG	1:Z:252:GLN:H	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Z:807:LYS:CB	1:Z:837:VAL:C	2.84	0.51
1:Z:817:ALA:C	1:Z:821:GLN:H	2.13	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
6:V:431:GLN:C	7:W:499:GLY:H	2.19	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:A:837:VAL:HG11	2:C:1142:ASP:HB2	1.93	0.50
2:C:229:ASP:CG	2:C:252:LYS:CE	2.85	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
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
3:P:665:ASN:CG	3:P:666:PRO:HD3	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:838:LYS:O	5:R:842:ASN:HB2	2.12	0.50
5:R:1469:ARG:HH22	5:R:1530:GLU:HB3	1.76	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
8:X:692:LYS:O	8:X:695:GLN:HG3	2.11	0.50
2:C:229:ASP:CG	2:C:252:LYS:HE2	2.35	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:1020:ASN:ND2	1:Z:252:GLN:HG2	2.23	0.50
3:P:1494:ASN:O	5:R:1471:LYS:CE	2.60	0.50
5:R:320:GLU:CD	5:R:351:HIS:HD1	2.18	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
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:Z:116:LYS:C	1:Z:116:LYS:CE	2.85	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
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:1363:ILE:C	5:F:1363:ILE:CD1	2.85	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
4:Q:1259:PHE:HD1	4:Q:1259:PHE:O	1.94	0.50
5:R:920:ILE:HB	5:R:924:ALA:CA	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:138:ASN:HD22	1:A:138:ASN:C	2.19	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:270:ILE:HD11	4:E:320:MET:HE3	1.94	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:128:LEU:HD13	4:Q:1260:TYR:HH	1.72	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
8:U:821:ILE:CD1	8:U:821:ILE:C	2.85	0.50
6:V:277:ILE:CD1	6:V:280:LEU:HD23	2.42	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
5:F:1285:HIS:C	5:F:1285:HIS:ND1	2.70	0.50
6:J:309:PRO:O	6:J:312:VAL:HB	2.12	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
4:Q:270:ILE:HD11	4:Q:320:MET:HE3	1.94	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
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:1370:LEU:O	5:F:1371:ILE:HB	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:899:PHE:O	5:R:904:TYR:OH	2.24	0.50
5:R:1014:SER:N	8:U:788:ASP:O	2.41	0.50
5:R:1285:HIS:ND1	5:R:1285:HIS:C	2.70	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
5:F:1157:TRP:O	5:F:1158:THR:C	2.55	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
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: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
6:V:383:LYS:CD	8:X:756:ASN:CG	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:515:ASN:ND2	1:Z:20:LYS:HZ1	2.09	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
3:D:665:ASN:CG	3:D:666:PRO:HD3	2.37	0.50
5:F:343:ASP:OD2	5:F:702:LYS:NZ	2.38	0.50
5:F:670:LYS:O	5:F:673:SER:OG	2.28	0.50
5:F:1067:ASN:N	5:F:1067:ASN:OD1	2.42	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
2:O:229:ASP:CG	2:O:252:LYS:CE	2.85	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
6:V:402:ASP:C	6:V:404:ASP:N	2.69	0.50
7:W:430:GLY:C	7:W:432:ALA:H	2.20	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
5:F:900:LEU:HD22	5:F:904:TYR:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
5:R:336:LYS:HZ1	5:R:778:LEU:HD12	1.77	0.49
7:T:418:GLN:HE22	8:U:718:THR:HG23	1.61	0.49
7:W:335:TRP:CH2	7:W:339:MET:HE2	2.47	0.49
1:Z:239:ILE:O	1:Z:243:SER:OG	2.30	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: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:116:LYS:C	1:N:116:LYS:CE	2.85	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
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:H:527:LEU:C	7:H:527:LEU:CD2	2.85	0.49
7:K:310:ALA:CB	7:K:352:ILE:HB	2.38	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:1166:HIS:C	5:R:1166:HIS:ND1	2.70	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: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:384:LEU:C	6:J:384:LEU:CD2	2.85	0.49
6:J:405:LEU:HD23	6:J:405:LEU:C	2.37	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
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:T:426:GLY:CA	8:U:735:ASN:C	2.83	0.49
8:U:778:LYS:C	8:U:778:LYS:CD	2.85	0.49
6:V:389:ARG:NH1	6:V:389:ARG:C	2.71	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
1:A:749:ASP:O	1:A:752:SER:OG	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:I:795:LYS:HZ3	8:I:795:LYS:HA	1.77	0.49
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:935:GLN:C	5:R:937:LEU:N	2.71	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:CD2	2.86	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:1166:HIS:ND1	5:F:1166:HIS:C	2.70	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:544:TYR:OH	5:R:629:SER:OG	2.29	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:389:ARG:CZ	6:V:389:ARG:C	2.85	0.49
6:V:433:LYS:CA	7:W:499:GLY:HA3	2.42	0.49
1:Z:766:ASN:OD1	1:Z:766:ASN:N	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:OD1	2.13	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:986:SER:O	4:Q:986:SER:OG	2.22	0.49
5:R:260:MET:HE3	5:R:306:VAL:HB	1.95	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
5:R:1363:ILE:C	5:R:1363:ILE:CD1	2.85	0.49
6:V:390:ILE:HG22	6:V:394:ILE:HG23	1.92	0.49
7:W:515:ASN:HD22	1:Z:20:LYS:HZ1	1.60	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:334:SER:C	6:V:336:PHE:H	2.15	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
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:1305:SER:C	5:F:1307:VAL:N	2.69	0.49
5:F:1628:GLY:O	5:F:1632:THR:HB	2.13	0.49
6:J:370:ASP:HA	6:J:373:PHE:CG	2.48	0.49
7:K:335:TRP:CH2	7:K:339:MET:HE2	2.47	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
3:P:976:THR:CB	3:P:981:ILE:CB	2.91	0.49
3:P:986:THR:C	3:P:988:LEU:H	2.20	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:389:LEU:C	5:R:389:LEU:CD1	2.85	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
6:V:384:LEU:C	6:V:384:LEU:CD2	2.85	0.49
6:V:405:LEU:HD23	6:V:405:LEU:C	2.38	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
6:G:289:GLN:CD	6:J:352:VAL:HG22	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
6:V:463:LYS:HG2	7:W:530:ASP:CG	2.16	0.49
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:935:GLN:C	5:F:937:LEU:N	2.71	0.48
5:F:1138:PHE:C	5:F:1140:GLU:H	2.21	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
6:G:449:LEU:HD23	1:Z:84:ASP:CB	2.42	0.48
8:I:778:LYS:C	8:I:778:LYS:CD	2.85	0.48
6:J:389:ARG:CZ	6:J:389:ARG:C	2.85	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:334:GLN:HB3	5:R:860:ASN:CG	2.37	0.48
6:V:380:TYR:CD1	6:V:380:TYR:O	2.66	0.48
6:V:404:ASP:C	6:V:406:PHE:H	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:341:LEU:HD21	1:M:371:PHE:HZ	1.78	0.48
1:N:637:ILE:O	1:N:640:SER:OG	2.28	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
8:U:795:LYS:C	8:U:795:LYS:CD	2.85	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
3:D:986:THR:C	3:D:988:LEU:H	2.20	0.48
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:383:LYS:CD	8:L:756:ASN:CG	2.85	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
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
4:Q:1052:LYS:HZ2	4:Q:1068:LEU:HD23	1.78	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:1167:LYS:HD3	5:R:1167:LYS:C	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:I:655:PHE:O	8:I:659:THR:OG1	2.27	0.48
6:J:372:PHE:CD2	6:J:372:PHE:C	2.89	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: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:Z:807:LYS:C	1:Z:836:ASP:O	2.56	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
4:E:973:THR:HG1	4:E:974:GLY:H	1.57	0.48
5:F:161:GLN:HA	5:F:164:LYS:HG3	1.94	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
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
5:R:334:GLN:HG2	5:R:860:ASN:HD21	1.73	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
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: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: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
5:R:421:ILE:C	5:R:423:LEU:N	2.72	0.48
6:S:428:ASN:HD21	6:S:432:LEU:HD23	1.78	0.48
6:V:372:PHE:CD2	6:V:372:PHE:C	2.89	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:731:GLY:C	8:I:733:ALA:N	2.71	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
1:N:439:HIS:ND1	1:N:457:TYR:OH	2.41	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
8:U:731:GLY:C	8:U:733:ALA:N	2.71	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
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
6:G:295:LYS:NZ	6:J:363:LYS:HZ3	2.11	0.48
6:G:451:MET:HE1	1:M:14:THR:CB	2.31	0.48
8:I:814:LEU:HD21	1:Z:59:LYS:HA	1.96	0.48
1:M:269:ASN:HB3	1:M:272:GLU:HB2	1.96	0.48
1:N:239:ILE:O	1:N:243:SER:OG	2.30	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:1309:LEU:C	5:R:1309:LEU:CD2	2.86	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
1:Z:810:ALA:O	1:Z:836:ASP:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:795:LYS:CA	8:I:795:LYS:HZ3	2.27	0.48
8:I:821:ILE:CD1	8:I:821:ILE:C	2.85	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
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
2:O:888:LEU:HA	2:O:892:PHE:CD2	2.49	0.48
5:R:320:GLU:CD	5:R:351:HIS:ND1	2.71	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:138:ASN:C	1:Z:138:ASN:ND2	2.72	0.48
1:Z:254:LEU:O	1:Z:257:TRP:N	2.47	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:260:MET:HE3	5:F:306:VAL:HB	1.94	0.48
5:F:291:GLU:HG3	5:F:295:ARG:HG2	1.95	0.48
5:F:389:LEU:C	5:F:389:LEU:CD1	2.86	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
8:I:795:LYS:C	8:I:795:LYS:NZ	2.72	0.48
6:J:376:LYS:NZ	8:L:756:ASN:ND2	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:430:GLY:C	7:K:432:ALA:H	2.20	0.48
1:N:138:ASN:C	1:N:138:ASN:ND2	2.72	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
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
5:F:1493:LYS:HD2	5:F:1493:LYS:HA	1.66	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: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:1138:PHE:C	5:R:1140:GLU:H	2.21	0.47
5:R:1392:ILE:CB	5:R:1405:PHE:HE2	2.27	0.47
7:W:312:VAL:CG1	7:W:361:ARG:HH21	2.27	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:1550:LEU:CD1	5:F:1552:PHE:CZ	2.97	0.47
6:G:452:ASP:CB	1:Z:84:ASP:CG	2.87	0.47
8:I:795:LYS:C	8:I:795:LYS:CD	2.85	0.47
8:I:822:LYS:NZ	8:I:822:LYS:CA	2.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:84:ASP:CG	6:S:452:ASP:CB	2.87	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:389:ARG:NH1	6:V:389:ARG:CG	2.72	0.47
7:W:402:GLN:C	7:W:402:GLN:NE2	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
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
7:K:454:GLY:C	7:K:456:THR:H	2.22	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
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
6:J:383:LYS:CE	8:L:756:ASN:CG	2.78	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:R:965:LEU:O	5:R:965:LEU:HG	2.13	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:320:GLU:CD	5:F:351:HIS:ND1	2.72	0.47
5:F:900:LEU:HD22	5:F:904:TYR:CE2	2.49	0.47
5:F:925:HIS:HA	5:F:928:LEU:CD1	2.44	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: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
1:N:807:LYS:C	1:N:836:ASP:O	2.56	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
7:T:292:VAL:HG22	8:U:644:TRP:HZ3	1.79	0.47
6:V:371:LYS:C	6:V:371:LYS:CD	2.88	0.47
6:V:391:LEU:HA	6:V:394:ILE:HD13	1.96	0.47
7:W:483:VAL:N	7:W:493:SER:C	2.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:J:371:LYS:C	6:J:371:LYS:CD	2.88	0.47
7:K:446:ARG:HH22	7:K:455:LYS:HZ3	1.49	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:159:LYS:CE	5:R:363:ASP:CB	2.93	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
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
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: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:311:ASP:CG	7:K:376:LEU:HD21	2.39	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:402:GLN:C	7:K:402:GLN:NE2	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:923:LEU:C	4:Q:923:LEU:CD2	2.88	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
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:1086:LEU:HD23	5:R:1086:LEU:HA	1.77	0.47
5:R:1157:TRP:O	5:R:1158:THR:C	2.55	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:O	8:U:822:LYS:HG3	2.15	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
7:W:454:GLY:C	7:W:456:THR:H	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:421:ILE:C	5:F:423:LEU:N	2.72	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
4:Q:1345:SER:O	4:Q:1349:TYR:HB2	2.14	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
6:V:311:ASP:CG	7:W:376:LEU:HD21	2.39	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:989:ASP:C	4:E:991:LYS:N	2.72	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
8:I:822:LYS:HG3	8:I:822:LYS:O	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:138:ASN:C	1:A:138:ASN:ND2	2.72	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:1293:ASN:ND2	5:F:1293:ASN:C	2.73	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
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: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
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:253:LYS:NZ	5:F:257:SER:OG	2.44	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:900:LEU:C	5:F:900:LEU:CD1	2.82	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:138:ASN:C	1:M:138:ASN:ND2	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:R:640:PHE:O	5:R:643:THR:C	2.58	0.46
5:R:1543:LEU:C	5:R:1543:LEU:CD1	2.88	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:16:LYS:NZ	1:Z:16:LYS:C	2.72	0.46
1:Z:116:LYS:HE2	1:Z:116:LYS:CA	2.44	0.46
1:Z:776:ILE:C	1:Z:778:THR:H	2.23	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
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
6:J:432:LEU:CA	8:L:782:ILE:HA	2.45	0.46
7:K:429:LEU:C	7:K:429:LEU:CD1	2.85	0.46
1:N:820:ILE:O	1:N:822:TYR:N	2.48	0.46
3:P:295:GLU:CD	3:P:316:LYS:HE3	2.40	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
3:D:295:GLU:CD	3:D:316:LYS:HE3	2.40	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:334:GLN:HB3	5:F:860:ASN:CG	2.37	0.46
5:F:951:ARG:NE	5:F:951:ARG:HA	2.29	0.46
5:F:1177:VAL:C	5:F:1180:TYR:CB	2.88	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: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:49:LEU:C	1:N:49:LEU:HD13	2.40	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:1110:MET:CE	5:R:1157:TRP:CZ2	2.99	0.46
5:R:1177:VAL:C	5:R:1180:TYR:CB	2.88	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
7:W:518:ARG:NH1	7:W:518:ARG:C	2.73	0.46
7:W:522:TYR:C	7:W:522:TYR:HD1	2.23	0.46
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:564:ASP:OD1	5:R:564:ASP:N	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:117:LYS:HB3	1:Z:117:LYS:HZ2	1.73	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
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
3:D:1136:ASP:OD2	1:N:203:ASN:C	2.36	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:444:THR:HB	5:F:445:ASP:H	1.53	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
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
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
6:V:398:VAL:HG21	7:W:462:ARG:C	2.32	0.46
7:W:288:ILE:O	7:W:292:VAL:HG23	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:657:ILE:O	5:F:712:LEU:CD1	2.56	0.46
5:F:1543:LEU:C	5:F:1543:LEU:CD1	2.88	0.46
8:I:795:LYS:HZ3	8:I:795:LYS:CB	2.29	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
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
8:U:742:GLN:HB3	8:U:746:LYS:HZ2	1.80	0.46
8:U:795:LYS:C	8:U:795:LYS:NZ	2.72	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: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:334:GLN:HE21	5:F:859:LYS:HZ3	1.29	0.46
5:F:640:PHE:O	5:F:643:THR:C	2.58	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
8:I:694:ASP:OD2	8:I:698:GLN:NE2	2.37	0.46
7:K:483:VAL:N	7:K:493:SER:C	2.70	0.46
7:K:538:LYS:CB	8:L:818:ILE:C	2.88	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
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
4:E:923:LEU:C	4:E:923:LEU:CD2	2.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:293:HIS:CB	7:K:359:ASN:HD21	2.27	0.46
7:K:301:PRO:HB3	7:K:353:TYR:O	2.16	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: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
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: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
5:F:929:TYR:C	5:F:931:GLY:N	2.73	0.46
6:J:434:THR:OG1	6:J:435:GLY:N	2.47	0.46
7:K:330:VAL:C	7:K:331:LEU:HD12	2.41	0.46
8:L:684:VAL:HA	8:L:687:GLU:OE1	2.16	0.46
1:M:749:ASP:O	1:M:752:SER:OG	2.29	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1380:ASP:C	4:Q:1382:THR:H	2.24	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
7:T:420:ALA:CB	8:U:745:TYR:CD1	2.96	0.46
8:U:778:LYS:HA	8:U:778:LYS:NZ	2.29	0.46
8:U:778:LYS:HZ2	8:U:778:LYS:CA	2.27	0.46
8:U:778:LYS:CG	8:U:794:ILE:CB	2.94	0.46
7:W:330:VAL:C	7:W:331:LEU:HD12	2.41	0.46
1:A:140:ILE:CG2	4:E:1393:LYS:CE	2.94	0.46
1:A:494:TYR:O	1:A:497:THR:OG1	2.32	0.46
1:A:545:PHE:CD2	1:A:549:ASP:HB2	2.50	0.46
1:A:749:ASP:HB2	2:C:1274:LYS:HZ3	1.81	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
1:M:260:LEU:HA	1:M:263:MET:HE2	1.98	0.46
3:P:654:THR:O	3:P:658:ILE:HG13	2.16	0.46
3:P:1494:ASN:O	5:R:1471: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
5:R:1370:LEU:C	5:R:1371:ILE:CG1	2.89	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
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:49:LEU:C	1:Z:49:LEU:HD13	2.40	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
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:914:ASP:CG	5:F:917:PHE:CB	2.90	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:315:LYS:CG	7:K:347:THR:HG22	2.46	0.45
7:K:402:GLN:NE2	7:K:402:GLN:CA	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:914:ASP:CG	5:R:917:PHE:CB	2.89	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: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:207:MET:HE1	3:D:241:PHE:CD2	2.51	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:1110:MET:CE	5:F:1157:TRP:CZ2	2.99	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
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:1293:ASN:ND2	5:R:1293:ASN:C	2.73	0.45
7:W:455:LYS:HD3	7:W:455:LYS:H	1.75	0.45
7:W:466:LEU:O	7:W:469:ARG:N	2.49	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:P:1136:ASP:HB2	1:Z:203:ASN:CG	2.39	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:929:TYR:C	5:R:931:GLY:N	2.73	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
3:D:1134:SER:OG	1:N:206:ASN:C	2.60	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
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
6:J:334:SER:C	6:J:336:PHE:H	2.15	0.45
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
1:N:776:ILE:C	1:N:778:THR:H	2.23	0.45
1:N:817:ALA:C	1:N:821:GLN:H	2.13	0.45
3:P:361:ILE:HD12	3:P:368:ILE:HG12	1.97	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
8:U:694:ASP:OD2	8:U:698:GLN:NE2	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:207:MET:HE1	3:P:241:PHE:CD2	2.51	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
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
6:J:380:TYR:CD1	6:J:383:LYS:HD3	2.51	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1359:PHE:O	5:R:1359:PHE:CG	2.69	0.45
7:T:298:SER:OG	7:T:305:LYS:O	2.25	0.45
8:U:793:LEU:HA	8:U:796:ILE:HG13	1.98	0.45
8:U:821:ILE:HD13	8:U:821:ILE:O	2.16	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
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
1:A:679:ASP:CG	1:A:684:ASN:HD22	2.24	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
1:N:125:ILE:HD11	5:R:1363:ILE:HG22	1.97	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:HZ2	5:R:1484:ARG:HH22	1.63	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
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: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
6:J:371:LYS:NZ	6:J:371:LYS:C	2.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HE2	5:R:1157:TRP:HZ2	1.80	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
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
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: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:295:LYS:C	6:V:363:LYS:HZ1	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:E:1380:ASP:C	4:E:1382:THR:H	2.24	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: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
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
6:V:374:GLN:C	6:V:374:GLN:CD	2.85	0.45
6:V:377:ILE:HG22	6:V:378:HIS:CD2	2.47	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
3:D:1136:ASP:HB2	1:N:203:ASN:CG	2.40	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:685:MET:O	8:I:688:HIS:ND1	2.45	0.44
8:I:795:LYS:HZ3	8:I:795:LYS:HB2	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:Z:122:LEU:HD23	1:Z:122:LEU:HA	1.73	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
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: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: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
5:R:1680:GLN:NE2	5:R:1680:GLN:C	2.75	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:1359:PHE:CE1	5:F:1363:ILE:CG2	3.00	0.44
6:J:404:ASP:C	6:J:406:PHE:N	2.75	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
7:T:527:LEU:C	7:T:527:LEU:CD2	2.85	0.44
7:W:513:LEU:HD23	7:W:513:LEU:C	2.42	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
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
3:P:353:GLN:CD	3:P:374:LYS:HB2	2.43	0.44
4:Q:598:VAL:HG11	4:Q:638:ILE:HD11	2.00	0.44
4:Q:1061:THR:O	4:Q:1065:THR:OG1	2.30	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
7:T:314:ASN:HB2	7:T:361:ARG:HH22	1.81	0.44
6:V:371:LYS:NZ	6:V:371:LYS:C	2.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:452:LYS:HA	5:F:452:LYS:HD2	1.70	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
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
1:M:679:ASP:CG	1:M:684:ASN:HD22	2.24	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
3:P:830:SER:CB	3:P:934:SER:HB3	2.38	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:260:LEU:HA	1:A:263:MET:HE2	1.99	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
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:733:GLN:HA	1:N:785:MET:HE3	1.99	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:504:ASP:OD1	4:Q:524:LYS:NZ	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:899:PHE:O	5:F:904:TYR:OH	2.24	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:766:ASN:O	1:Z:769:LYS:N	2.50	0.44
1:A:128:LEU:CB	4:E:1260:TYR:CE2	3.00	0.44
3:D:735:SER:O	3:D:739:THR:OG1	2.32	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:1309:LEU:C	5:F:1309:LEU:CD2	2.86	0.44
5:F:1490:ARG:HE	5:F:1493:LYS:HB3	1.83	0.44
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: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
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:926:LEU:C	5:R:926:LEU:CD1	2.84	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
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: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
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:1617:SER:O	5:F:1617:SER:OG	2.28	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:989:ASP:C	4:Q:991:LYS:N	2.72	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:353:GLN:CD	3:D:374:LYS:HB2	2.43	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:374:GLN:CD	6:J:374:GLN:C	2.85	0.43
7:K:484:PHE:C	7:K:492:ASP:CB	2.88	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
1:N:826:ARG:O	1:N:827:GLU:C	2.61	0.43
3:P:372:SER:OG	3:P:376:THR:OG1	2.22	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:354:ARG:C	5:R:356:ILE:H	2.26	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:334:SER:C	6:V:336:PHE:N	2.75	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:773:LEU:O	4:E:773:LEU:HD22	2.17	0.43
5:F:174:LEU:C	5:F:177:GLN:HE22	2.26	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
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: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:733:GLN:HA	1:Z:785:MET:HE3	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:23:ASP:OD1	5:F:23:ASP:N	2.47	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
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
3:P:387:LEU:HA	3:P:391:MET:HE1	2.00	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
5:R:1680:GLN:C	5:R:1680:GLN:CD	2.85	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: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: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:909:PHE:O	3:D:913:LEU:HG	2.19	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1408:LEU:HD21	4:Q:1456:ILE:HD11	2.00	0.43
5:R:351:HIS:CG	5:R:351:HIS:O	2.70	0.43
5:R:659:ASN:OD1	5:R:659:ASN:N	2.51	0.43
5:R:925:HIS:HA	5:R:928:LEU:HD11	2.00	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
7:W:429:LEU:C	7:W:429:LEU:CD1	2.85	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
4:E:1626:GLN:O	4:E:1632:SER:OG	2.33	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:927:GLY:C	5:F:978:ILE:HD11	2.44	0.43
5:F:1227:THR:HA	7:H:472:ASN:CB	2.47	0.43
6:J:300:ASP:HA	6:J:303:GLU:CD	2.43	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:395:ALA:O	7:K:399:LEU:HD23	2.19	0.43
1:M:516:PHE:CE2	1:M:534:PHE:HB2	2.54	0.43
1:M:772:PRO:C	1:M:828:THR:HG21	2.42	0.43
1:N:767:ILE:CD1	1:N:768:VAL:HG23	2.48	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:927:GLY:C	5:R:978:ILE:HD11	2.44	0.43
5:R:935:GLN:CB	5:R:998:LEU:CD2	2.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:198:SER:HB3	1:A:543:LYS:HE2	2.01	0.43
1:A:333:ILE:HG13	1:A:334:TRP:N	2.33	0.43
3:D:118:THR:HB	3:D:623:GLY:CA	2.36	0.43
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:563:SER:O	5:F:567:LYS:NZ	2.50	0.43
5:F:659:ASN:OD1	5:F:659:ASN:N	2.51	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: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
8:L:809:ASP:HA	8:L:812:THR:HB	2.00	0.43
1:M:210:GLU:O	1:M:211:LYS:C	2.62	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
4:Q:650:ASP:OD2	4:Q:653:SER:OG	2.28	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
6:V:300:ASP:HA	6:V:303:GLU:CD	2.43	0.43
1:Z:18:ALA:CA	1:Z:21:LYS:HB3	2.47	0.43
3:D:387:LEU:HA	3:D:391:MET:HE1	2.00	0.43
3:D:582:ASP:O	3:D:585:ILE:HG22	2.19	0.43
4:E:1214:PHE:O	4:E:1218:SER:OG	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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
3:D:993:GLY:C	3:D:995:PHE:N	2.76	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
6:J:435:GLY:O	6:J:440:VAL:CB	2.67	0.43
7:K:504:ASP:C	7:K:506:ILE:N	2.75	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
4:E:988:ILE:C	4:E:990:LYS:N	2.77	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
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
7:K:446:ARG:C	7:K:446:ARG:CD	2.92	0.43
8:L:664:SER:O	8:L:668:VAL:HG23	2.18	0.43
1:M:21:LYS:C	1:M:21:LYS:CD	2.85	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: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
7:W:484:PHE:C	7:W:492:ASP:CB	2.88	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
3:D:1391:PHE:CD1	3:D:1426:MET:HE1	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1545:ARG:HA	5:F:1548:ALA:HB3	2.01	0.43
6:J:431:GLN:O	8:L:782:ILE:HA	2.18	0.43
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
5:R:1360:LEU:C	5:R:1362:ASP:N	2.77	0.43
7:W:508:LYS:NZ	1:Z:12:SER:HG	2.13	0.43
1:A:210:GLU:O	1:A:211:LYS:C	2.62	0.42
1:A:681:SER:HA	1:A:687:LEU:HB3	2.01	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:405:ARG:HH12	5:R:407:ASN:CG	2.27	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:Z:116:LYS:NZ	1:Z:116:LYS:C	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:TYR:CD2	1:A:238:PHE:HE1	2.37	0.42
1:A:754:ARG:HA	1:A:819:MET:HE1	2.01	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
5:F:229:PHE:O	5:F:233:TYR:N	2.52	0.42
5:F:354:ARG:C	5:F:356:ILE:H	2.26	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:787:GLY:C	5:F:790:SER:H	2.27	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:778:LYS:HZ2	8:I:778:LYS:CA	2.31	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
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
5:R:142:SER:O	5:R:146:SER:OG	2.24	0.42
5:R:174:LEU:C	5:R:177:GLN:HE22	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
6:V:371:LYS:C	6:V:371:LYS:HD2	2.44	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: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:754:ARG:HA	1:M:819:MET:HE1	2.01	0.42
1:M:760:PHE:HD2	1:M:823:ARG:HH11	1.66	0.42
1:N:116:LYS:NZ	1:N:116:LYS:C	2.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:873:SER:HB3	3:P:877:VAL:HB	2.01	0.42
3:P:1391:PHE:CD1	3:P:1426:MET:HE1	2.54	0.42
4:Q:988:ILE:C	4:Q:990:LYS:N	2.77	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
5:R:825:ILE:O	5:R:825:ILE:HG23	2.19	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
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
6:J:371:LYS:C	6:J:371:LYS:HD2	2.44	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:787:GLY:C	5:R:790:SER:H	2.27	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
6:V:277:ILE:HD12	6:V:277:ILE:HA	1.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:599:ARG:HH22	1:Z:620:LEU:HD21	1.84	0.42
1:Z:654:ILE:HG22	1:Z:710:ASN:HB2	2.01	0.42
1:Z:826:ARG:O	1:Z:827:GLU:C	2.61	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: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:I:742:GLN:HB3	8:I:746:LYS:HZ2	1.85	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:334:SER:HA	6:V:337:LYS:HB2	2.01	0.42
1:A:776:ILE:CD1	1:A:828:THR:HG23	2.49	0.42
3:D:372:SER:OG	3:D:376:THR:OG1	2.22	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
5:F:864:LEU:HD12	5:F:864:LEU:HA	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:935:GLN:CB	5:F:998:LEU:CD2	2.97	0.42
5:F:1118:ARG:HA	5:F:1118:ARG:HD3	1.47	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: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: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:26:LYS:HZ3	5:F:26:LYS:HG2	1.68	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
8:I:795:LYS:NZ	8:I:795:LYS:O	2.34	0.42
6:J:334:SER:C	6:J:336:PHE:N	2.75	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
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: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
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
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:27:GLU:CD	1:Z:27:GLU:C	2.88	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
4:E:989:ASP:O	4:E:990:LYS:C	2.62	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
7:W:315:LYS:HG3	7:W:347:THR:HG22	2.02	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
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:HZ1	1.67	0.41
5:F:1082:ILE:HA	5:F:1082:ILE:HD13	1.87	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: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
3:P:451:SER:HB2	3:P:458:GLU:HB2	2.01	0.41
4:Q:258:ILE:C	4:Q:260:ARG:N	2.78	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:L:714:PHE:O	8:L:718:THR:OG1	2.37	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
4:Q:1214:PHE:O	4:Q:1218:SER:OG	2.33	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
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:920:ILE:CB	5:F:924:ALA:C	2.91	0.41
5:F:1198:LEU:HD22	5:F:1201:LEU:HD13	2.02	0.41
8:L:659:THR:HA	8:L:662:ILE:HG22	2.02	0.41
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:421:ILE:C	5:R:423:LEU:H	2.27	0.41
5:R:719:ILE:HG12	5:R:731:PHE:CD2	2.56	0.41
7:W:365:GLN:O	7:W:369:VAL:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:334:GLN:HE22	5:F:859:LYS:HZ3	1.51	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
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:828:ILE:O	3:P:828:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:26:LYS:HZ2	5:R:130:LEU:HB2	1.85	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
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:352:ILE:HG21	7:W:358:LEU:HD21	2.01	0.41
7:W:446:ARG:C	7:W:446:ARG:CD	2.91	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
1:A:772:PRO:C	1:A:828:THR:CG2	2.94	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:260:MET:HE1	5:F:282:PHE:HA	2.03	0.41
5:F:386:GLY:HA3	5:F:392:PRO:O	2.21	0.41
5:F:405:ARG:HH12	5:F:407:ASN:CG	2.27	0.41
5:F:421:ILE:C	5:F:423:LEU:H	2.28	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
7:K:315:LYS:HZ3	7:K:347:THR:CG2	2.34	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:Z:91:GLN:O	1:Z:92:THR:C	2.64	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: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:M:584:LYS:NZ	1:M:639:ASP:OD1	2.45	0.41
1:M:772:PRO:C	1:M:828:THR:CG2	2.94	0.41
1:N:21:LYS:HA	1:N:24:GLU:CD	2.45	0.41
1:N:571:LEU:HA	1:N:574:GLU:HG3	2.03	0.41
1:N:774:LEU:C	1:N:774:LEU:CD2	2.85	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
5:R:662:PRO:HG3	5:R:715:ASN:ND2	2.36	0.41
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:873:SER:HB3	3:D:877:VAL:HB	2.02	0.41
3:D:1019:ARG:C	1:N:251:ALA:CB	2.94	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
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:M:441:MET:O	1:M:441:MET:HE3	2.21	0.41
1:N:367:PHE:O	1:N:370:TYR:HB2	2.20	0.41
1:N:558:VAL:O	1:N:561:THR:OG1	2.35	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
3:P:993:GLY:C	3:P:995:PHE:N	2.76	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
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:A:19:ASN:HA	1:A:22:LEU:CG	2.51	0.41
1:A:123:MET:CB	6:J:413:ASN:CG	2.94	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
4:E:917:PRO:O	4:E:964:GLN:NE2	2.52	0.41
4:E:1061:THR:O	4:E:1065:THR:OG1	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:M:123:MET:CB	6:V:413:ASN:CG	2.94	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: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: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
7:W:454:GLY:O	7:W:456:THR:N	2.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1388:HIS:O	4:E:1331:LEU:HD13	2.19	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
5:F:1280:ILE:HD12	5:F:1280:ILE:C	2.46	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
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:699:GLU:C	4:Q:701:SER:H	2.29	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
1:A:531:ASP:CG	1:A:536:ASN:HD22	2.28	0.40
1:A:772:PRO:C	1:A:828:THR:HG21	2.42	0.40
3:D:135:PHE:HD1	3:D:596:ALA:HB3	1.86	0.40
3:D:168:GLN:H	3:D:187:ASP:CG	2.27	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
4:E:79:LEU:HD11	4:E:99:VAL:HG22	2.03	0.40
4:E:699:GLU:C	4:E:701:SER:H	2.29	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:1435:LYS:HZ2	5:F:1484:ARG:HH22	1.65	0.40
5:F:1442:TRP:NE1	5:F:1484:ARG:HB3	2.36	0.40
6:G:319:GLU:HA	6:G:322:THR:HG22	2.03	0.40
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:493:ASP:HA	1:N:496:TYR:CD2	2.56	0.40
1:N:761:SER:C	1:N:763:LEU:N	2.79	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
5:R:1658:PRO:O	5:R:1662:SER:OG	2.35	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
6:V:392:SER:HG	6:V:393:ASP:H	1.69	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
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:964:LYS:O	5:F:964:LYS:CG	2.69	0.40
5:F:1110:MET:HE2	5:F:1157:TRP:HZ2	1.80	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
7:K:389:LYS:CB	7:K:393:ASP:CG	2.94	0.40
7:K:425:ARG:HA	7:K:433:GLU:CD	2.47	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
3:P:1020:ASN:ND2	1:Z:252:GLN:CG	2.83	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
5:R:920:ILE:CB	5:R:924:ALA:C	2.91	0.40
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:441:MET:O	1:A:441:MET:HE3	2.21	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: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
7:W:389:LYS:CB	7:W:393:ASP:CG	2.94	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:405:LEU:C	6:J:409:PRO:HD3	2.47	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
8:L:728:THR:OG1	8:L:733:ALA:O	2.33	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:249:ARG:C	1:N:253:LEU:HG	2.46	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:O	5:R:964:LYS:CG	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:1458:LEU:HD23	5:R:1458:LEU:HA	1.88	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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%)	36	65
1	M	719/839 (86%)	699 (97%)	18 (2%)	2 (0%)	36	65
1	N	736/839 (88%)	680 (92%)	39 (5%)	17 (2%)	5	30
1	Z	736/839 (88%)	681 (92%)	38 (5%)	17 (2%)	5	30
2	C	1323/1391 (95%)	1269 (96%)	41 (3%)	13 (1%)	12	43
2	O	1323/1391 (95%)	1270 (96%)	40 (3%)	13 (1%)	12	43

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	D	1396/1502 (93%)	1275 (91%)	113 (8%)	8 (1%)	21	52
3	P	1396/1502 (93%)	1275 (91%)	113 (8%)	8 (1%)	21	52
4	E	1538/1655 (93%)	1374 (89%)	150 (10%)	14 (1%)	14	45
4	Q	1538/1655 (93%)	1376 (90%)	149 (10%)	13 (1%)	16	47
5	F	1616/1683 (96%)	1200 (74%)	321 (20%)	95 (6%)	1	15
5	R	1616/1683 (96%)	1196 (74%)	324 (20%)	96 (6%)	1	15
6	G	198/472 (42%)	188 (95%)	9 (4%)	1 (0%)	24	56
6	J	191/472 (40%)	172 (90%)	15 (8%)	4 (2%)	5	31
6	S	198/472 (42%)	188 (95%)	9 (4%)	1 (0%)	24	56
6	V	191/472 (40%)	171 (90%)	16 (8%)	4 (2%)	5	31
7	H	242/541 (45%)	202 (84%)	36 (15%)	4 (2%)	7	34
7	K	252/541 (47%)	208 (82%)	33 (13%)	11 (4%)	2	19
7	T	242/541 (45%)	202 (84%)	36 (15%)	4 (2%)	7	34
7	W	252/541 (47%)	209 (83%)	32 (13%)	11 (4%)	2	19
8	I	185/823 (22%)	158 (85%)	16 (9%)	11 (6%)	1	15
8	L	185/823 (22%)	164 (89%)	15 (8%)	6 (3%)	3	25
8	U	185/823 (22%)	158 (85%)	16 (9%)	11 (6%)	1	15
8	X	185/823 (22%)	164 (89%)	15 (8%)	6 (3%)	3	25
All	All	17165/23162 (74%)	15181 (88%)	1612 (9%)	372 (2%)	7	31

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
3	D	665	ASN
3	D	1000	ASP
3	D	1128	GLN
3	D	1134	SER
4	E	923	LEU
4	E	986	SER

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Mol	Chain	Res	Type
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
6	J	338	SER
6	J	339	LEU
6	J	405	LEU
6	J	438	ALA
7	K	321	ALA
7	K	449	ASP

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Mol	Chain	Res	Type
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
5	R	885	GLU
5	R	888	PRO
5	R	919	ASN
5	R	921	PRO
5	R	922	LEU
5	R	934	ASP

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Mol	Chain	Res	Type
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
1	Z	824	MET
2	C	526	ASN
4	E	262	SER
4	E	263	SER
4	E	701	SER
4	E	1248	THR

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Mol	Chain	Res	Type
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
5	R	412	ASN
5	R	926	LEU
5	R	936	ILE
5	R	958	SER
5	R	964	LYS
5	R	974	GLU

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Mol	Chain	Res	Type
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
5	F	1030	ASN
5	F	1038	LEU
5	F	1059	SER
5	F	1064	THR
5	F	1084	LEU
5	F	1123	ASN

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Mol	Chain	Res	Type
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
5	R	1557	PRO
5	R	1675	THR
8	U	738	ASP
8	U	789	GLU
8	U	790	ASN
7	W	392	LEU

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Mol	Chain	Res	Type
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
5	R	1361	PHE
5	R	1372	THR
5	R	1676	LEU
7	W	455	LYS
1	Z	91	GLN
1	Z	648	GLU

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Mol	Chain	Res	Type
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
5	R	1365	ASN
5	R	1390	GLN
8	U	798	ASN
8	X	704	GLN
4	E	1489	PRO
8	L	794	ILE

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Mol	Chain	Res	Type
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 ⓘ

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%)	587 (96%)	21 (4%)	32	54
1	M	605/762 (79%)	581 (96%)	24 (4%)	28	52
1	N	609/762 (80%)	556 (91%)	53 (9%)	9	34
1	Z	609/762 (80%)	555 (91%)	54 (9%)	9	33
2	C	1177/1250 (94%)	1149 (98%)	28 (2%)	43	62
2	O	1177/1250 (94%)	1149 (98%)	28 (2%)	43	62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	D	1212/1353 (90%)	1198 (99%)	14 (1%)	63	71
3	P	1210/1353 (89%)	1196 (99%)	14 (1%)	63	71
4	E	1421/1557 (91%)	1390 (98%)	31 (2%)	45	63
4	Q	1421/1557 (91%)	1388 (98%)	33 (2%)	44	62
5	F	1261/1538 (82%)	1167 (92%)	94 (8%)	12	38
5	R	1261/1538 (82%)	1165 (92%)	96 (8%)	12	38
6	G	167/377 (44%)	162 (97%)	5 (3%)	36	57
6	J	162/377 (43%)	146 (90%)	16 (10%)	7	30
6	S	166/377 (44%)	161 (97%)	5 (3%)	36	57
6	V	162/377 (43%)	147 (91%)	15 (9%)	8	32
7	H	171/439 (39%)	163 (95%)	8 (5%)	23	48
7	K	153/439 (35%)	130 (85%)	23 (15%)	3	16
7	T	171/439 (39%)	163 (95%)	8 (5%)	23	48
7	W	152/439 (35%)	121 (80%)	31 (20%)	1	8
8	I	152/674 (23%)	136 (90%)	16 (10%)	6	28
8	L	138/674 (20%)	136 (99%)	2 (1%)	59	70
8	U	152/674 (23%)	136 (90%)	16 (10%)	6	28
8	X	138/674 (20%)	136 (99%)	2 (1%)	59	70
All	All	14455/20404 (71%)	13818 (96%)	637 (4%)	27	50

All (637) 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	45	SER
1	A	53	VAL
1	A	54	PHE
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

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Mol	Chain	Res	Type
1	A	130	ASN
1	A	134	LYS
1	A	137	ASP
1	A	138	ASN
1	A	139	PHE
1	A	827	GLU
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	910	LEU
2	C	918	MET
2	C	1034	SER
2	C	1252	ASP
2	C	1253	VAL
2	C	1262	LEU
2	C	1298	ASP
2	C	1299	LYS
2	C	1301	SER
2	C	1387	HIS
3	D	528	PRO
3	D	980	SER
3	D	982	GLU
3	D	984	THR
3	D	990	GLU
3	D	1000	ASP

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Mol	Chain	Res	Type
3	D	1039	VAL
3	D	1115	VAL
3	D	1118	LEU
3	D	1129	ASN
3	D	1160	HIS
3	D	1413	VAL
3	D	1472	ILE
3	D	1495	LEU
4	E	55	LEU
4	E	138	VAL
4	E	194	ILE
4	E	260	ARG
4	E	261	ILE
4	E	310	ILE
4	E	368	ILE
4	E	665	THR
4	E	698	VAL
4	E	719	ILE
4	E	771	LEU
4	E	773	LEU
4	E	808	THR
4	E	827	PRO
4	E	843	LEU
4	E	895	HIS
4	E	900	ILE
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	1026	THR
4	E	1079	VAL
4	E	1167	LEU
4	E	1259	PHE
4	E	1424	LEU
4	E	1447	ILE
4	E	1514	VAL
4	E	1557	LEU
5	F	278	ILE
5	F	331	ILE
5	F	334	GLN

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Mol	Chain	Res	Type
5	F	355	LEU
5	F	356	ILE
5	F	389	LEU
5	F	397	MET
5	F	399	SER
5	F	407	ASN
5	F	409	MET
5	F	444	THR
5	F	712	LEU
5	F	750	TRP
5	F	782	LYS
5	F	815	PHE
5	F	825	ILE
5	F	835	LYS
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	922	LEU
5	F	926	LEU
5	F	928	LEU
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	1027	GLN
5	F	1029	SER
5	F	1032	ILE
5	F	1060	LEU
5	F	1068	ILE
5	F	1083	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	1174	LYS
5	F	1181	VAL
5	F	1191	SER
5	F	1192	VAL
5	F	1210	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	1284	SER
5	F	1285	HIS
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	1313	ILE
5	F	1314	VAL
5	F	1315	THR
5	F	1349	PHE
5	F	1352	GLU
5	F	1356	LEU
5	F	1358	VAL
5	F	1363	ILE
5	F	1364	TYR
5	F	1365	ASN

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Mol	Chain	Res	Type
5	F	1372	THR
5	F	1373	ASP
5	F	1387	THR
5	F	1417	LEU
5	F	1550	LEU
5	F	1635	ARG
5	F	1680	GLN
6	G	303	GLU
6	G	333	ILE
6	G	374	GLN
6	G	411	ASN
6	G	460	LEU
7	H	325	THR
7	H	398	ILE
7	H	418	GLN
7	H	507	ASN
7	H	508	LYS
7	H	512	ILE
7	H	529	LYS
7	H	534	VAL
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	375	LYS
6	J	376	LYS

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Mol	Chain	Res	Type
6	J	385	GLU
6	J	389	ARG
6	J	390	ILE
6	J	394	ILE
6	J	401	ILE
6	J	402	ASP
6	J	403	THR
6	J	405	LEU
6	J	411	ASN
6	J	444	ILE
7	K	325	THR
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	397	ARG
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	424	ASN
7	K	429	LEU
7	K	443	LEU
7	K	446	ARG
7	K	448	GLU
7	K	449	ASP
7	K	453	LEU
7	K	455	LYS
8	L	648	LEU
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

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Mol	Chain	Res	Type
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
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	827	GLU
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	115	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

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Mol	Chain	Res	Type
1	N	127	GLN
1	N	128	LEU
1	N	129	LEU
1	N	130	ASN
1	N	133	THR
1	N	134	LYS
1	N	138	ASN
1	N	139	PHE
1	N	144	LEU
1	N	146	LEU
1	N	252	GLN
1	N	253	LEU
1	N	254	LEU
1	N	758	GLN
1	N	765	ASP
1	N	766	ASN
1	N	767	ILE
1	N	768	VAL
1	N	772	PRO
1	N	775	LEU
1	N	776	ILE
1	N	777	ILE
1	N	805	SER
1	N	808	ASN
1	N	824	MET
1	N	827	GLU
1	N	828	THR
1	N	837	VAL
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

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Mol	Chain	Res	Type
2	O	695	ASP
2	O	826	LEU
2	O	828	THR
2	O	896	CYS
2	O	910	LEU
2	O	918	MET
2	O	1034	SER
2	O	1252	ASP
2	O	1253	VAL
2	O	1262	LEU
2	O	1298	ASP
2	O	1299	LYS
2	O	1301	SER
2	O	1387	HIS
3	P	528	PRO
3	P	980	SER
3	P	982	GLU
3	P	984	THR
3	P	990	GLU
3	P	1000	ASP
3	P	1039	VAL
3	P	1115	VAL
3	P	1118	LEU
3	P	1129	ASN
3	P	1160	HIS
3	P	1413	VAL
3	P	1472	ILE
3	P	1495	LEU
4	Q	55	LEU
4	Q	138	VAL
4	Q	194	ILE
4	Q	256	THR
4	Q	257	LEU
4	Q	258	ILE
4	Q	310	ILE
4	Q	368	ILE
4	Q	665	THR
4	Q	698	VAL
4	Q	719	ILE
4	Q	771	LEU
4	Q	773	LEU
4	Q	808	THR

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Mol	Chain	Res	Type
4	Q	827	PRO
4	Q	843	LEU
4	Q	895	HIS
4	Q	900	ILE
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	1004	LEU
4	Q	1026	THR
4	Q	1079	VAL
4	Q	1167	LEU
4	Q	1259	PHE
4	Q	1424	LEU
4	Q	1447	ILE
4	Q	1514	VAL
4	Q	1557	LEU
5	R	278	ILE
5	R	331	ILE
5	R	334	GLN
5	R	355	LEU
5	R	356	ILE
5	R	389	LEU
5	R	397	MET
5	R	399	SER
5	R	407	ASN
5	R	409	MET
5	R	444	THR
5	R	712	LEU
5	R	750	TRP
5	R	782	LYS
5	R	815	PHE
5	R	825	ILE
5	R	835	LYS
5	R	836	ILE
5	R	837	TYR
5	R	888	PRO
5	R	900	LEU
5	R	920	ILE
5	R	921	PRO

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Mol	Chain	Res	Type
5	R	922	LEU
5	R	926	LEU
5	R	928	LEU
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	1027	GLN
5	R	1029	SER
5	R	1032	ILE
5	R	1060	LEU
5	R	1068	ILE
5	R	1083	ILE
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	1174	LYS
5	R	1181	VAL
5	R	1191	SER
5	R	1192	VAL
5	R	1210	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

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Mol	Chain	Res	Type
5	R	1284	SER
5	R	1285	HIS
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	1313	ILE
5	R	1314	VAL
5	R	1315	THR
5	R	1349	PHE
5	R	1352	GLU
5	R	1356	LEU
5	R	1358	VAL
5	R	1363	ILE
5	R	1364	TYR
5	R	1365	ASN
5	R	1372	THR
5	R	1373	ASP
5	R	1387	THR
5	R	1417	LEU
5	R	1550	LEU
5	R	1559	LEU
5	R	1561	LEU
5	R	1635	ARG
5	R	1680	GLN
6	S	303	GLU
6	S	333	ILE
6	S	374	GLN
6	S	411	ASN
6	S	460	LEU
7	T	325	THR
7	T	398	ILE
7	T	418	GLN
7	T	507	ASN
7	T	508	LYS
7	T	512	ILE

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Mol	Chain	Res	Type
7	T	529	LYS
7	T	534	VAL
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
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	390	ILE
6	V	391	LEU
6	V	394	ILE
6	V	401	ILE
6	V	405	LEU
6	V	411	ASN
6	V	444	ILE
7	W	325	THR
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	397	ARG

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Mol	Chain	Res	Type
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	424	ASN
7	W	429	LEU
7	W	443	LEU
7	W	446	ARG
7	W	448	GLU
7	W	449	ASP
7	W	453	LEU
7	W	455	LYS
7	W	506	ILE
7	W	509	ILE
7	W	510	VAL
7	W	518	ARG
7	W	522	TYR
7	W	525	GLU
7	W	529	LYS
7	W	539	ASN
8	X	648	LEU
8	X	703	GLN
1	Z	14	THR
1	Z	16	LYS
1	Z	20	LYS
1	Z	22	LEU
1	Z	25	LEU
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

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Mol	Chain	Res	Type
1	Z	90	LEU
1	Z	92	THR
1	Z	115	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	254	LEU
1	Z	758	GLN
1	Z	765	ASP
1	Z	766	ASN
1	Z	767	ILE
1	Z	768	VAL
1	Z	772	PRO
1	Z	775	LEU
1	Z	776	ILE
1	Z	777	ILE
1	Z	805	SER
1	Z	808	ASN
1	Z	824	MET
1	Z	827	GLU
1	Z	828	THR
1	Z	837	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (319) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	130	ASN
1	A	138	ASN

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Mol	Chain	Res	Type
1	A	269	ASN
1	A	397	HIS
1	A	464	ASN
1	A	733	GLN
1	A	784	ASN
1	A	787	HIS
1	A	795	GLN
1	A	808	ASN
2	C	139	GLN
2	C	199	HIS
2	C	271	GLN
2	C	593	GLN
2	C	607	ASN
2	C	627	ASN
2	C	691	GLN
2	C	827	ASN
2	C	897	HIS
2	C	914	GLN
2	C	941	ASN
2	C	1049	ASN
2	C	1239	ASN
2	C	1258	GLN
2	C	1365	GLN
2	C	1387	HIS
3	D	112	GLN
3	D	431	ASN
3	D	449	ASN
3	D	484	GLN
3	D	568	GLN
3	D	573	GLN
3	D	850	ASN
3	D	1086	ASN
3	D	1129	ASN
3	D	1224	ASN
3	D	1445	ASN
4	E	20	ASN
4	E	36	GLN
4	E	80	GLN
4	E	165	ASN
4	E	190	GLN
4	E	210	ASN
4	E	299	ASN

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Mol	Chain	Res	Type
4	E	388	ASN
4	E	517	ASN
4	E	571	ASN
4	E	600	ASN
4	E	636	GLN
4	E	677	ASN
4	E	759	ASN
4	E	770	HIS
4	E	822	ASN
4	E	964	GLN
4	E	1001	ASN
4	E	1029	ASN
4	E	1102	GLN
4	E	1110	HIS
4	E	1143	GLN
4	E	1232	HIS
4	E	1306	ASN
4	E	1383	GLN
4	E	1462	ASN
4	E	1509	GLN
4	E	1535	ASN
4	E	1539	ASN
4	E	1558	GLN
4	E	1565	ASN
4	E	1613	ASN
5	F	38	ASN
5	F	101	ASN
5	F	105	GLN
5	F	154	GLN
5	F	163	ASN
5	F	177	GLN
5	F	258	GLN
5	F	334	GLN
5	F	383	ASN
5	F	428	GLN
5	F	542	ASN
5	F	725	ASN
5	F	758	ASN
5	F	1293	ASN
5	F	1299	ASN
5	F	1365	ASN
5	F	1664	ASN

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Mol	Chain	Res	Type
6	G	301	HIS
6	G	328	GLN
6	G	355	GLN
6	G	428	ASN
7	H	329	HIS
7	H	362	ASN
7	H	363	GLN
7	H	368	ASN
7	H	377	ASN
7	H	418	GLN
7	H	445	GLN
7	H	524	ASN
8	I	647	GLN
8	I	657	GLN
8	I	690	GLN
8	I	691	ASN
8	I	695	GLN
8	I	703	GLN
8	I	743	GLN
8	I	749	GLN
8	I	754	ASN
8	I	781	ASN
8	I	786	ASN
8	I	800	HIS
8	I	819	ASN
6	J	275	GLN
6	J	324	GLN
6	J	328	GLN
6	J	355	GLN
6	J	367	ASN
6	J	374	GLN
6	J	378	HIS
7	K	329	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

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Mol	Chain	Res	Type
7	K	424	ASN
7	K	439	GLN
7	K	515	ASN
7	K	539	ASN
8	L	647	GLN
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	269	ASN
1	M	397	HIS
1	M	464	ASN
1	M	733	GLN
1	M	784	ASN
1	M	787	HIS
1	M	795	GLN
1	M	808	ASN
1	N	19	ASN
1	N	60	ASN
1	N	127	GLN
1	N	130	ASN
1	N	138	ASN
1	N	196	ASN
1	N	214	ASN
1	N	229	ASN
1	N	246	ASN
1	N	252	GLN
1	N	295	ASN
1	N	301	ASN
1	N	380	HIS
1	N	397	HIS
1	N	463	GLN
1	N	464	ASN
1	N	621	HIS
1	N	658	ASN
1	N	758	GLN
1	N	770	ASN

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Mol	Chain	Res	Type
1	N	784	ASN
1	N	790	ASN
1	N	802	GLN
1	N	834	ASN
2	O	199	HIS
2	O	271	GLN
2	O	593	GLN
2	O	607	ASN
2	O	627	ASN
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	112	GLN
3	P	431	ASN
3	P	449	ASN
3	P	484	GLN
3	P	850	ASN
3	P	1020	ASN
3	P	1086	ASN
3	P	1129	ASN
3	P	1224	ASN
3	P	1445	ASN
4	Q	20	ASN
4	Q	36	GLN
4	Q	80	GLN
4	Q	165	ASN
4	Q	190	GLN
4	Q	210	ASN
4	Q	299	ASN
4	Q	388	ASN
4	Q	517	ASN
4	Q	571	ASN
4	Q	600	ASN
4	Q	636	GLN
4	Q	677	ASN
4	Q	759	ASN
4	Q	770	HIS
4	Q	822	ASN
4	Q	895	HIS

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Mol	Chain	Res	Type
4	Q	964	GLN
4	Q	1001	ASN
4	Q	1029	ASN
4	Q	1041	ASN
4	Q	1102	GLN
4	Q	1110	HIS
4	Q	1143	GLN
4	Q	1155	ASN
4	Q	1306	ASN
4	Q	1383	GLN
4	Q	1509	GLN
4	Q	1535	ASN
4	Q	1539	ASN
4	Q	1558	GLN
4	Q	1565	ASN
4	Q	1613	ASN
5	R	38	ASN
5	R	101	ASN
5	R	105	GLN
5	R	154	GLN
5	R	163	ASN
5	R	177	GLN
5	R	334	GLN
5	R	383	ASN
5	R	428	GLN
5	R	542	ASN
5	R	725	ASN
5	R	1293	ASN
5	R	1299	ASN
5	R	1365	ASN
5	R	1664	ASN
5	R	1680	GLN
6	S	301	HIS
6	S	328	GLN
6	S	355	GLN
6	S	428	ASN
7	T	329	HIS
7	T	362	ASN
7	T	363	GLN
7	T	368	ASN
7	T	377	ASN
7	T	418	GLN

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Mol	Chain	Res	Type
7	T	445	GLN
7	T	524	ASN
8	U	647	GLN
8	U	657	GLN
8	U	690	GLN
8	U	691	ASN
8	U	695	GLN
8	U	703	GLN
8	U	743	GLN
8	U	749	GLN
8	U	754	ASN
8	U	781	ASN
8	U	786	ASN
8	U	800	HIS
8	U	819	ASN
6	V	275	GLN
6	V	324	GLN
6	V	328	GLN
6	V	355	GLN
6	V	367	ASN
6	V	374	GLN
6	V	378	HIS
6	V	399	ASN
7	W	329	HIS
7	W	337	GLN
7	W	359	ASN
7	W	362	ASN
7	W	365	GLN
7	W	368	ASN
7	W	377	ASN
7	W	385	GLN
7	W	387	GLN
7	W	402	GLN
7	W	424	ASN
7	W	507	ASN
7	W	515	ASN
8	X	647	GLN
8	X	695	GLN
8	X	704	GLN
8	X	749	GLN
8	X	754	ASN
8	X	774	ASN

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Mol	Chain	Res	Type
8	X	819	ASN
1	Z	60	ASN
1	Z	127	GLN
1	Z	130	ASN
1	Z	138	ASN
1	Z	196	ASN
1	Z	214	ASN
1	Z	229	ASN
1	Z	252	GLN
1	Z	295	ASN
1	Z	301	ASN
1	Z	380	HIS
1	Z	397	HIS
1	Z	463	GLN
1	Z	464	ASN
1	Z	621	HIS
1	Z	658	ASN
1	Z	758	GLN
1	Z	770	ASN
1	Z	784	ASN
1	Z	790	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 oligosaccharides 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.

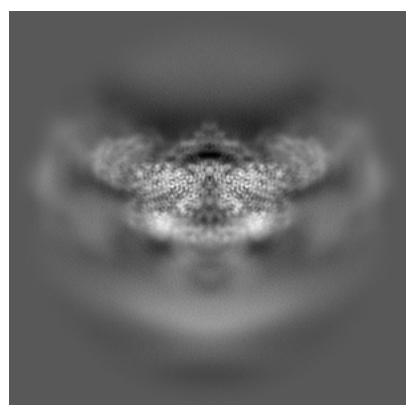
6 Map visualisation [i](#)

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.

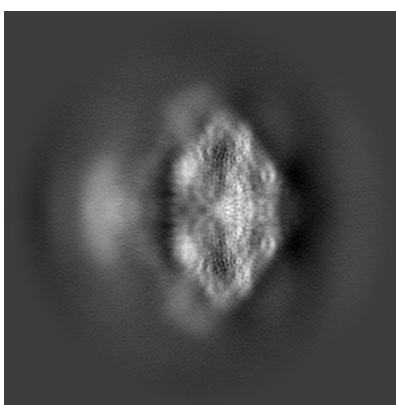
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

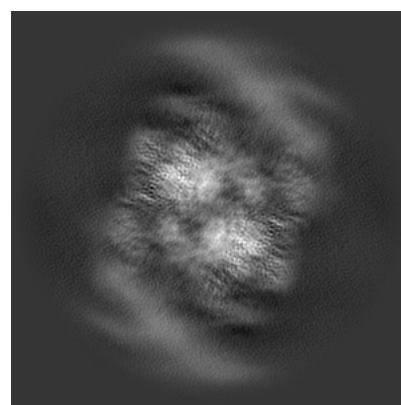
6.1.1 Primary map



X



Y

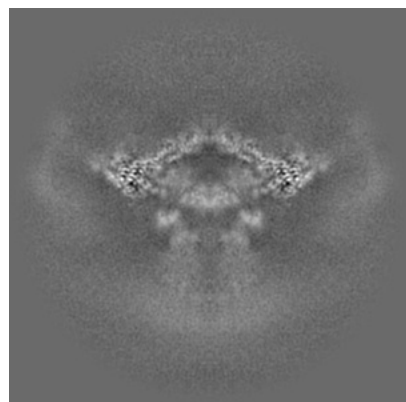


Z

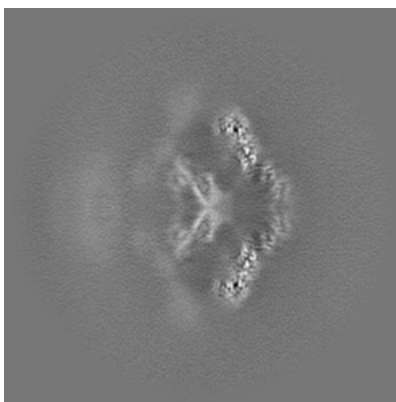
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

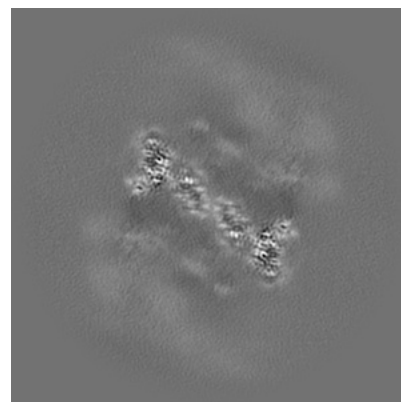
6.2.1 Primary map



X Index: 175



Y Index: 175

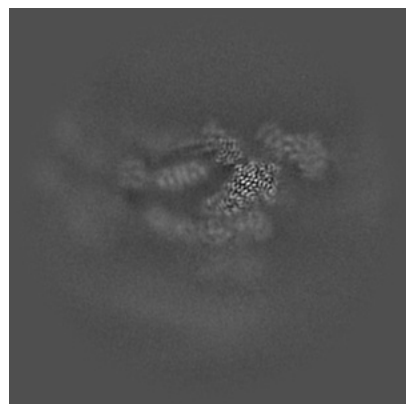


Z Index: 175

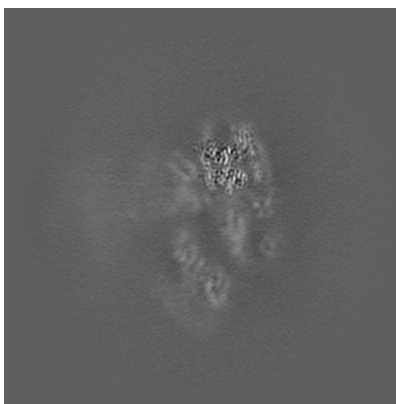
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

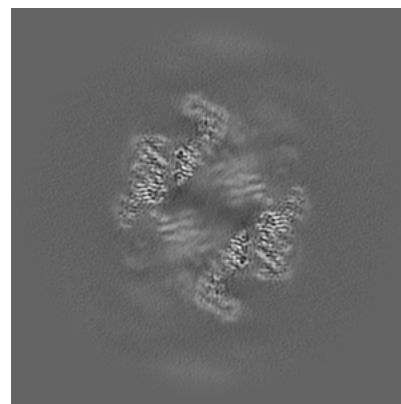
6.3.1 Primary map



X Index: 150



Y Index: 147

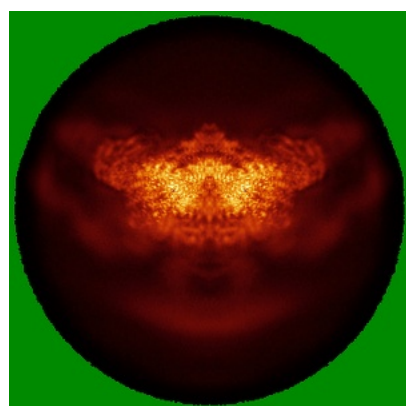


Z Index: 204

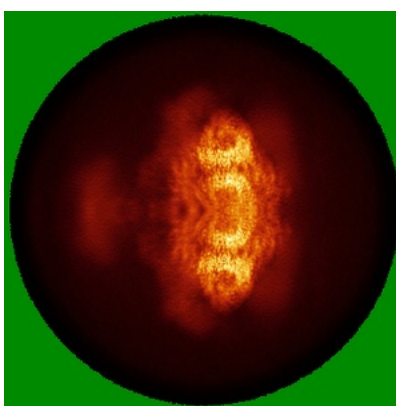
The images above show the largest variance slices of the map in three orthogonal directions.

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

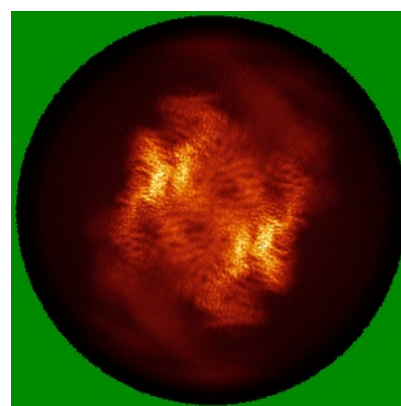
6.4.1 Primary map



X



Y

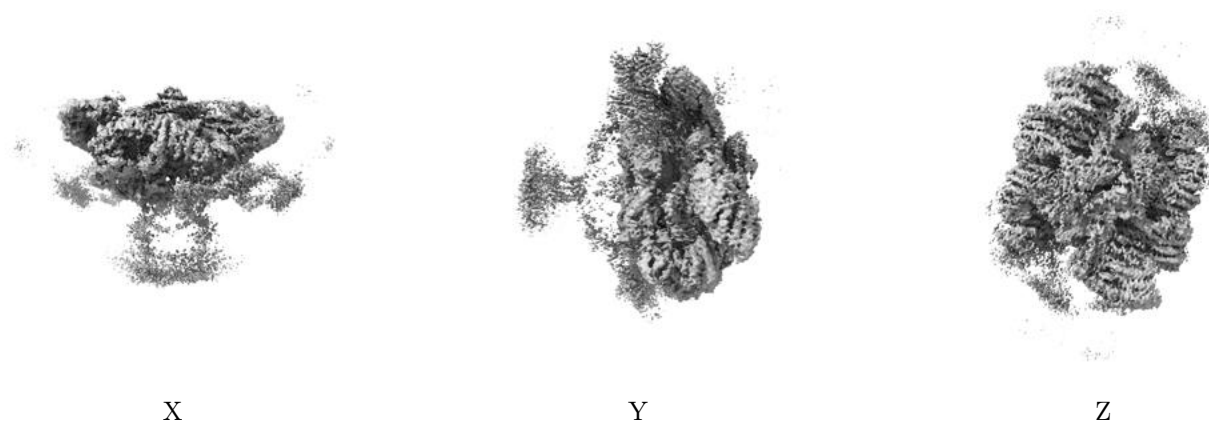


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



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.

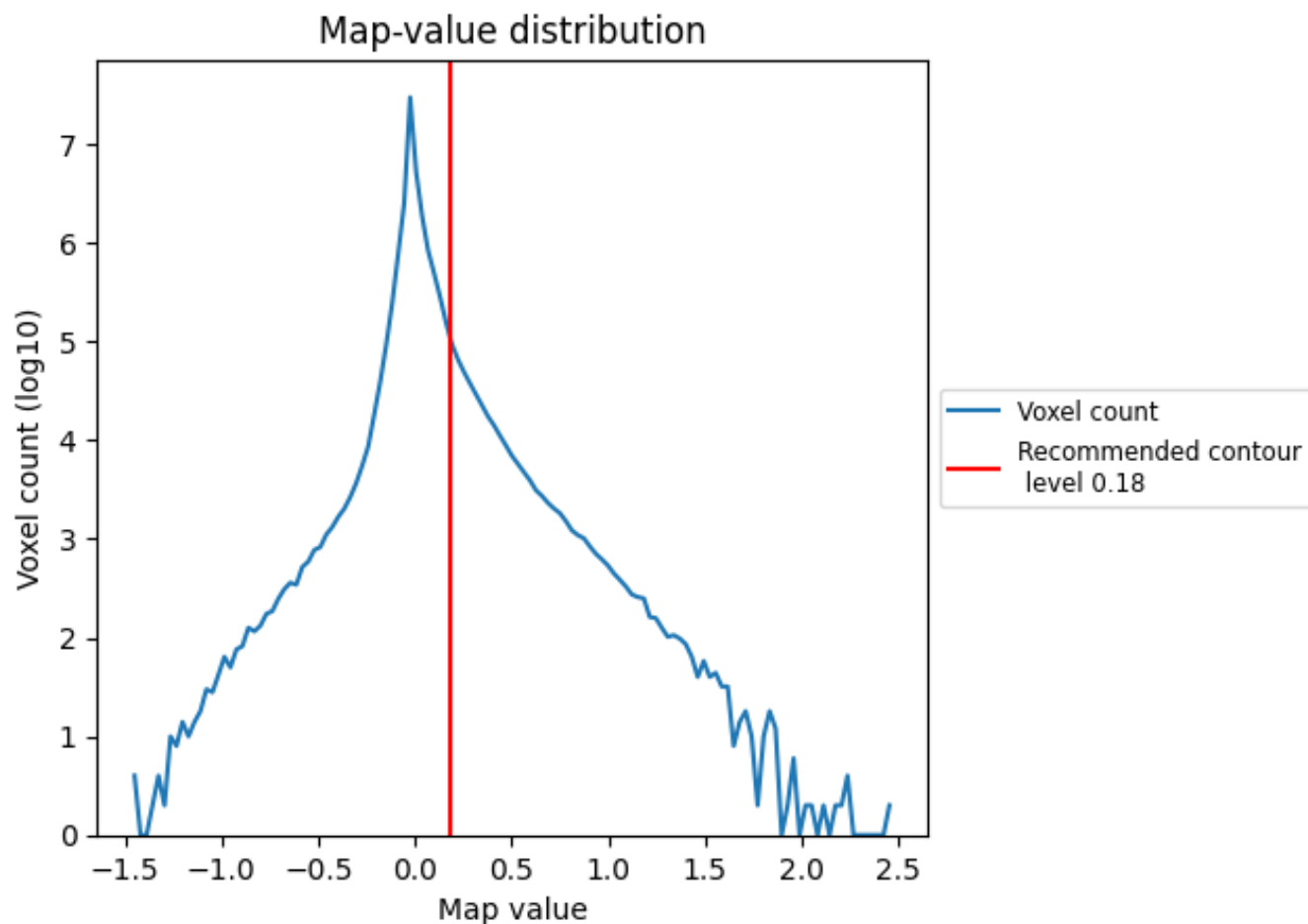
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

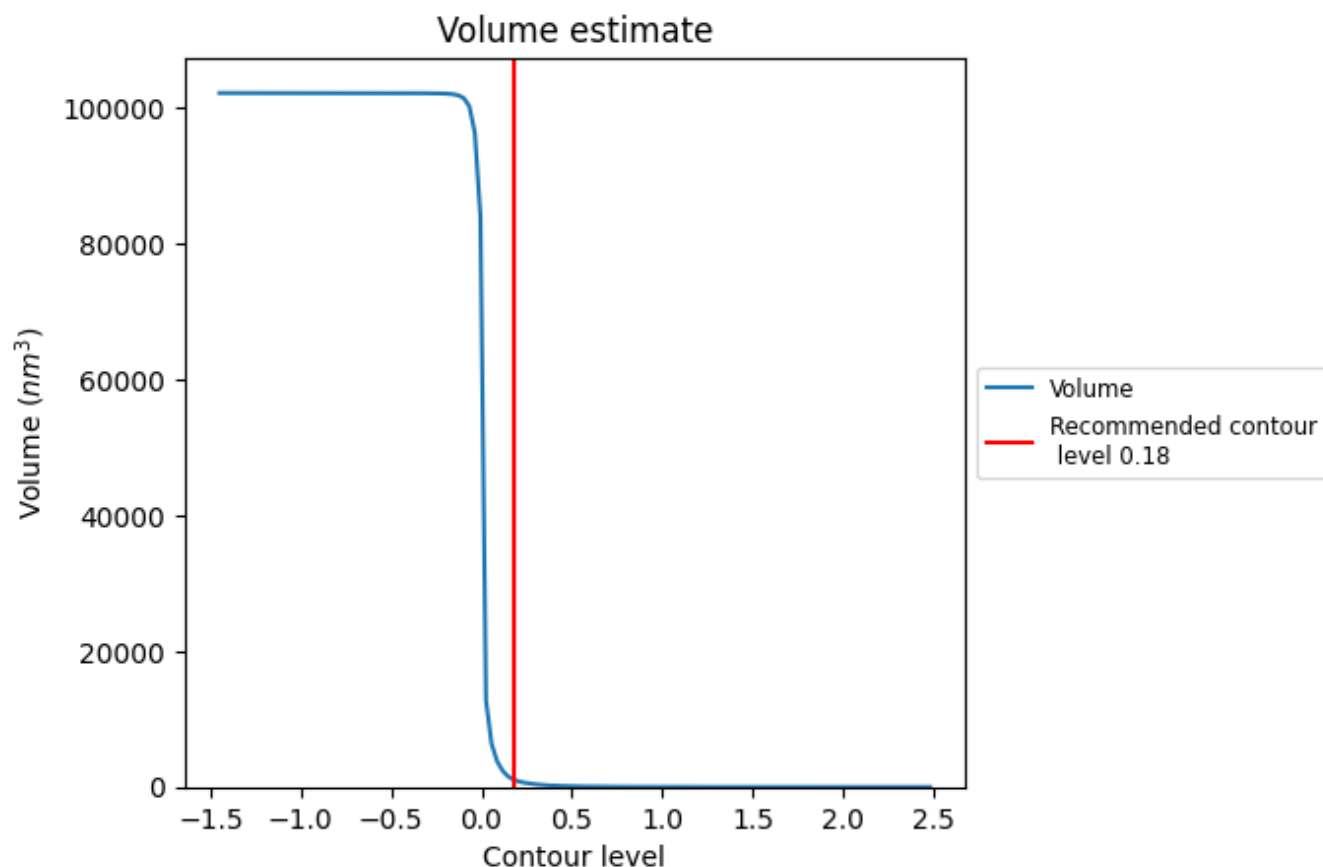
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

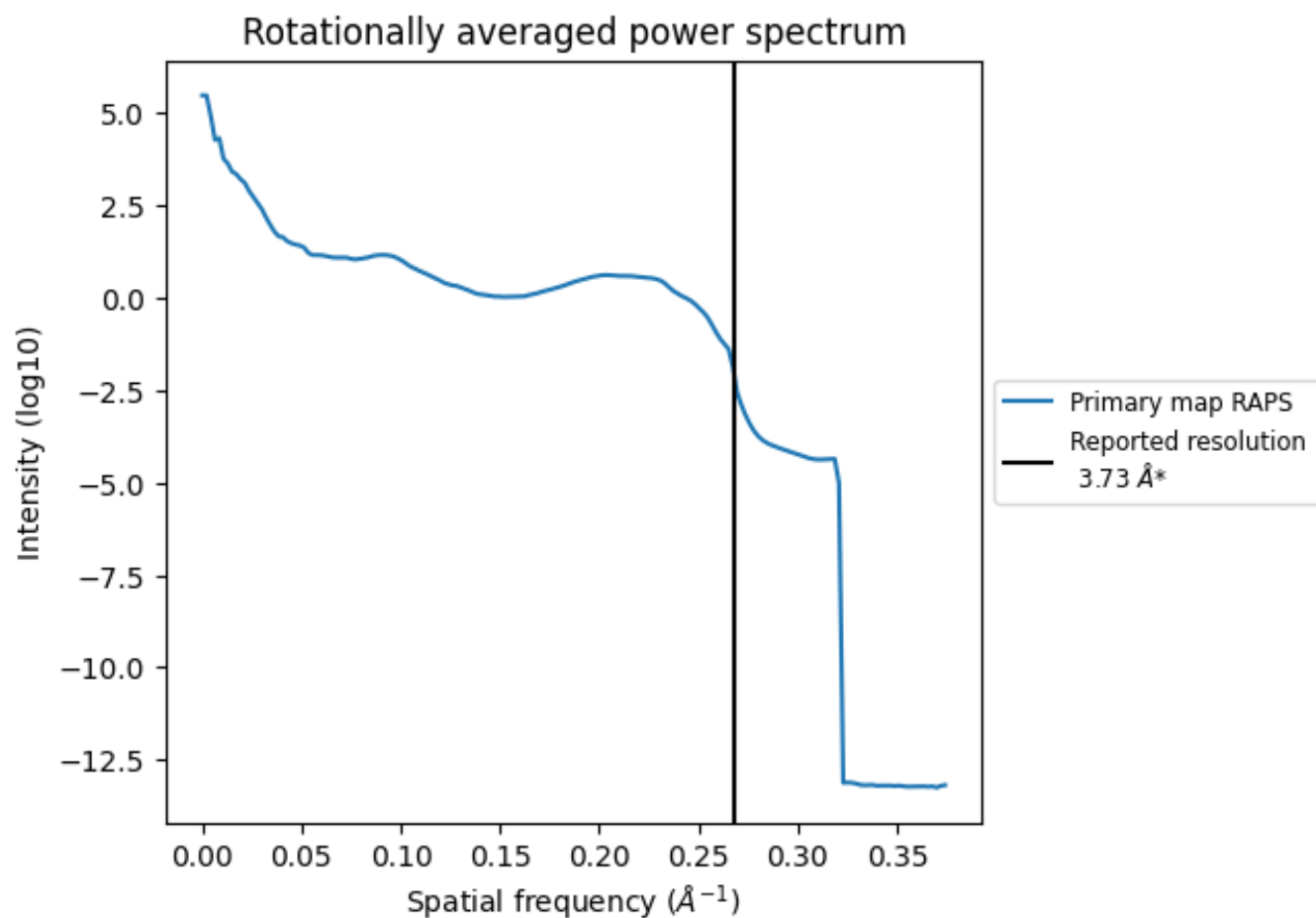
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.268 Å⁻¹

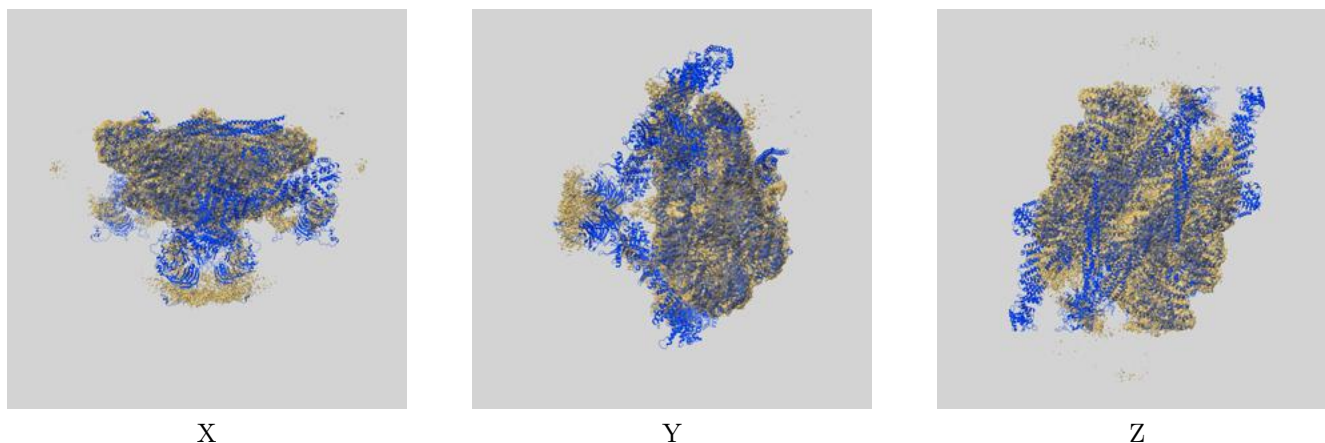
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

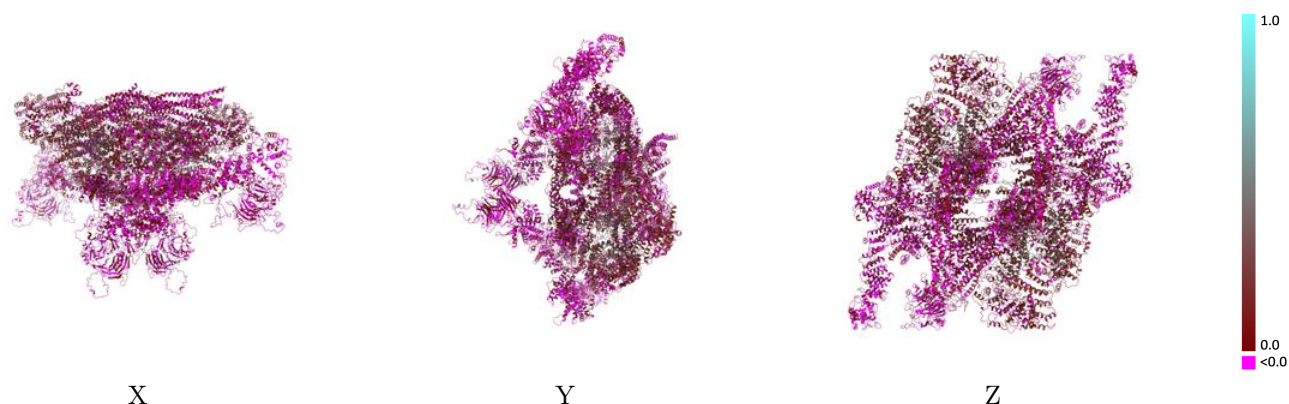
This section contains information regarding the fit between EMDB map EMD-32658 and PDB model 7WOT. Per-residue inclusion information can be found in section [3](#) on page [6](#).

9.1 Map-model overlay [i](#)



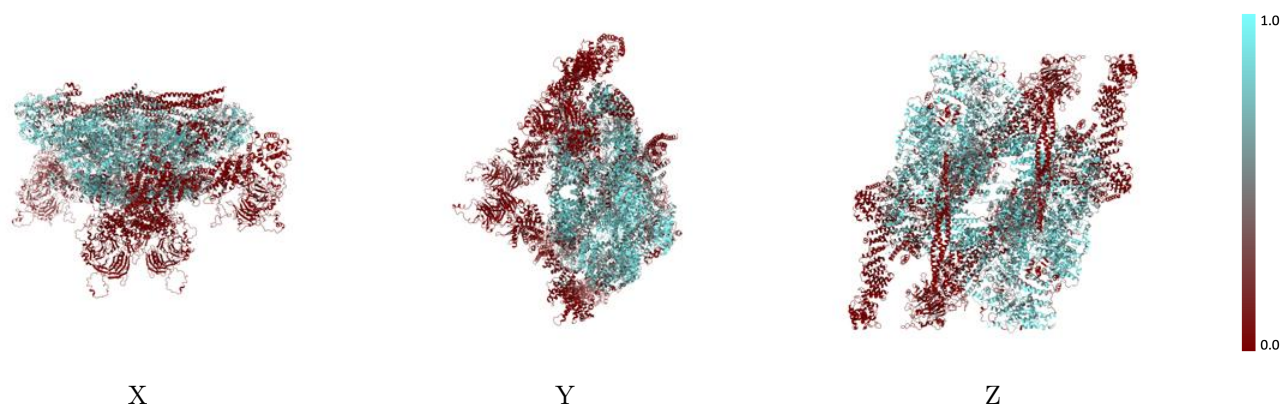
The images above show the 3D surface view of the map at the recommended contour level 0.18 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



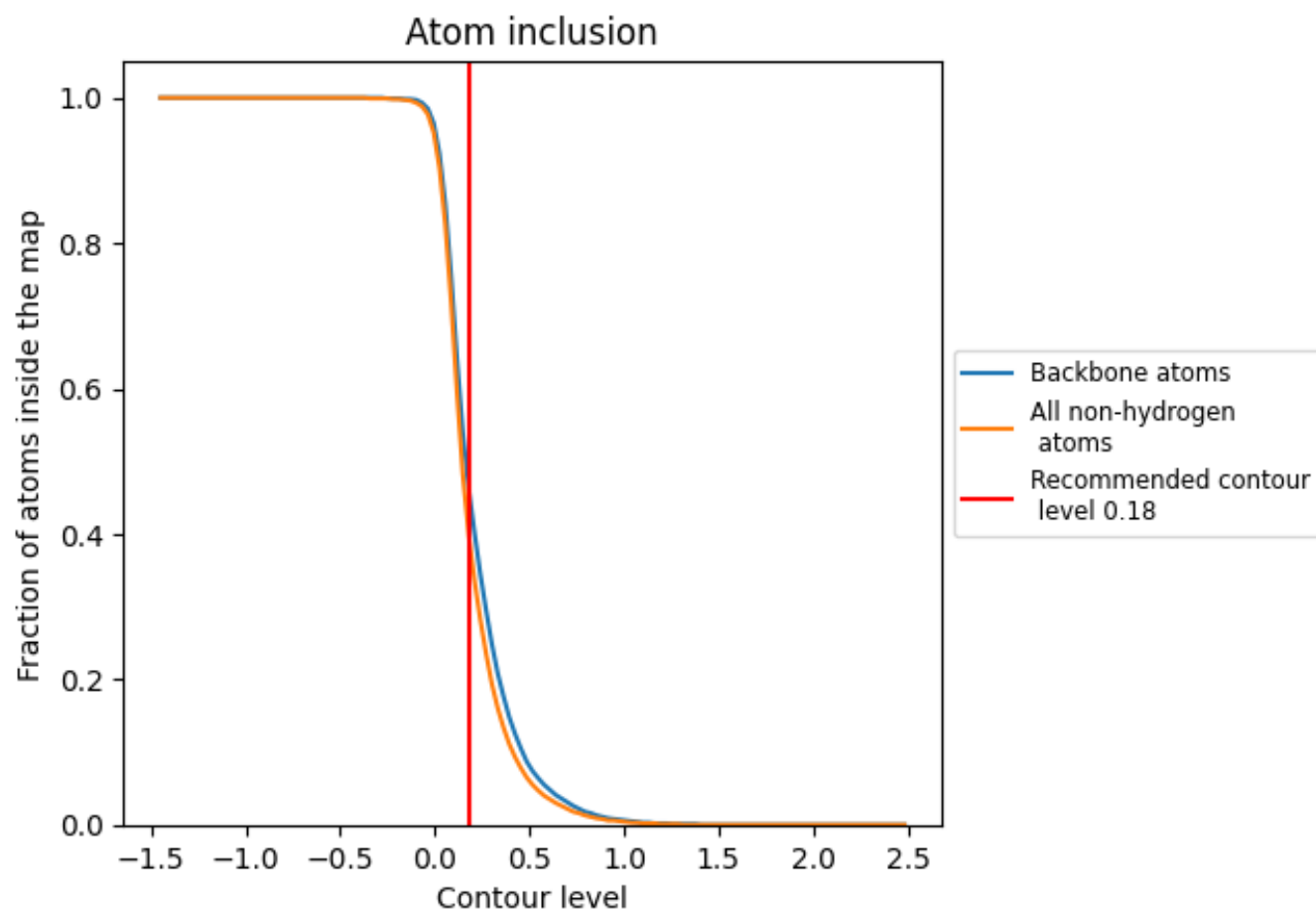
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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	 0.3970	 0.0910
A	 0.0870	 -0.0000
C	 0.0190	 0.0100
D	 0.2240	 0.0340
E	 0.6410	 0.1690
F	 0.6670	 0.1830
G	 0.4670	 0.0620
H	 0.4600	 0.0580
I	 0.5910	 0.1040
J	 0.3610	 0.0640
K	 0.2650	 0.0540
L	 0.3360	 0.0640
M	 0.0840	 0.0000
N	 0.5810	 0.1030
O	 0.0190	 0.0090
P	 0.2230	 0.0340
Q	 0.6450	 0.1740
R	 0.6700	 0.1830
S	 0.4670	 0.0620
T	 0.4610	 0.0570
U	 0.5940	 0.1070
V	 0.3640	 0.0620
W	 0.3030	 0.0730
X	 0.3330	 0.0650
Z	 0.5770	 0.1050

