



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 02:20 PM UTC

PDB ID : 5J8V / pdb_00005j8v
EMDB ID : EMD-8073
Title : Structure of rabbit ryanodine receptor RyR1 open state activated by calcium ion
Authors : Wang, X.; Wei, R.; Yin, C.; Sun, F.
Deposited on : 2016-04-08
Resolution : 4.90 Å(reported)
Based on initial model : 3J8H

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

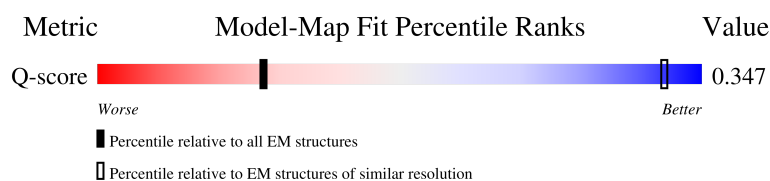
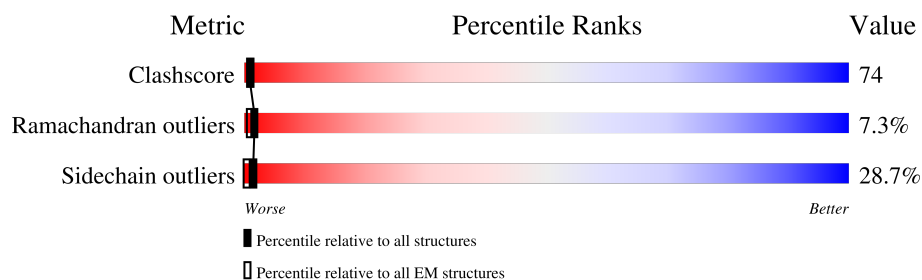
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.90 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	1274 (4.40 - 5.40)

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	5037	
1	B	5037	
1	C	5037	
1	D	5037	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 73616 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 Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	3453	Total 18404	C 11343	N 3553	O 3501	S 7	0	0
1	B	3453	Total 18404	C 11343	N 3553	O 3501	S 7	0	0
1	C	3453	Total 18404	C 11343	N 3553	O 3501	S 7	0	0
1	D	3453	Total 18404	C 11343	N 3553	O 3501	S 7	0	0

G708	D709	L710	L711	Y712	S713	Y714	GLY	PHE	ASP	GLY	L719	H720	L721	H722	T723	H725	V726	A727	R728	P729	P733	G734	Q735	A739	E741	D742	V743	S745	C746	G747	L748	D749	V752	P753	S754	I755	S756	F757	R758	I759	C762	P763	Q765	G766	V767	F768	E769	A770	N771	E772	L773																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
D774	F777	F778	P779	V780	W840	G841	P842	S843	W844	A785	G786	V787	K788	V789	R790	G791	L792	V793	G794	GLY	ARG	HIS	GLY	GLU	PHE	LYS	LEU	PRO	P865	L867	G868	R871	A875	I887	GLU	GLN	GLY	ARG	ASN	GLU	TRP	THR	GLY	VAL	PRO	ARG	P825	I826	K827	E828	Y829	R830	E831	G832	P834																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
R835	G836	P837	H838	L839	V840	G841	P842	S843	W844	A785	G786	V787	K788	V789	R790	G791	L792	V793	G794	GLY	ARG	HIS	GLY	GLU	PHE	LYS	LEU	PRO	P865	L867	G868	R871	A875	I887	GLU	GLN	GLY	ARG	ASN	GLU	TRP	THR	GLY	VAL	PRO	ARG	P825	I826	K827	E828	Y829	R830	E831	G832	P834																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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G1080	T1081	A1082	V1083	Q1084	G1085	H1086	W1087	Y1088	E1089	A1090	V1091	I1092	T1093	F1094	L1095	L1096	L1097	L1098	D1099	E1100	K1101	R1102	L1103	C1104	Q1105	V1106	G1107	A1108	P1109	S1110	L1111	D1112	V1113	A1114	I1115	M1116	L1117	M1118	L1119	M1120	F1121	L1122	M1123	L1124	M1125	G1126	G1127	L1128	M1129	F1130	L1131	M1132	H1133	L1134	G1135	E1136	R1137	P1138	F1139	P1140	W1141	F1142	G1143	S1144	G1145	D1146	L1147	G1148	M1149	L1150	C1151	M1152	ILE	L1153	L1154	D1155	M1156	L1157	V1158	L1159	I1160	L1161	F1162	L1163	L1164	M1165	G1166	E1167	V1168	L1169	M1170	S1171	L1172	M1173	L1174	M1175	L1176	F1177	L1178	M1179	L1180	F1181	L1182	M1183	L1184	M1185	G1186	E1187	V1188	L1189	M1190	L1191	M1192	F1193	L1194	M1195	G1196	P1197	Q1198	H1199	V1200	H1201	L1202	N1203	L1204	G1205	Q1206	S1207	L1208	R1209	L1210	L1211	R1212	F1213	G1214	A1215	L1216	C1217	G1218	E1219	M1220	F1221	F1222	F1223	F1224	A1225	L1226	A1227	L1228	N1229	P1230	V1231	T1232	W1233	F1234	L1235	M1236	L1237	S1238	F1239	K1240	S1241	L1242	P1243	Q1244	F1245	E1246	P1247	V1248	P1249	P1250	A1178	G1116	A1117	D1118	E1119	L1120	A1121	Y1122	V1123	F1124	N1125	G1126	G1127	L1128	M1129	F1130	L1131	M1132	H1133	L1134	G1135	E1136	R1137	P1138	F1139	P1140	W1141	F1142	G1143	S1144	G1145	D1146	L1147	G1148	M1149	L1150	C1151	M1152	ILE	L1153	L1154	D1155	M1156	L1157	V1158	L1159	I1160	L1161	F1162	L1163	L1164	M1165	G1166	E1167	V1168	L1169	M1170	S1171	L1172	M1173	L1174	M1175	L1176	F1177	L1178	M1179	L1180	F1181	L1182	M1183	L1184	M1185	G1186	E1187	V1188	L1189	M1190	L1191	M1192	F1193	L1194	M1195	G1196	P1197	Q1198	H1199	V1200	H1201	L1202	N1203	L1204	G1205	Q1206	S1207	L1208	R1209	L1210	L1211	R1212	F1213	G1214	A1215	L1216	C1217	G1218	E1219	M1220	F1221	F1222	F1223	F1224	A1225	L1226	A1227	L1228	N1229	P1230	V1231	T1232	W1233	F1234	L1235	M1236	L1237	S1238	F1239	K1240	S1241	L1242	P1243	Q1244	F1245	E1246	P1247	V1248	P1249	P1250	A1178	G1116	A1117	D1118	E1119	L1120	A1121	Y1122	V1123	F1124	N1125	G1126	G1127	L1128	M1129	F1130	L1131	M1132	H1133	L1134	G1135	E1136	R1137	P1138	F1139	P1140	W1141	F1142	G1143	S1144	G1145	D1146	L1147	G1148	M1149	L1150	C1151	M1152	ILE	L1153	L1154	D1155	M1156	L1157	V1158	L1159	I1160	L1161	F1162	L1163	L1164	M1165	G1166	E1167	V1168	L1169	M1170	S1171	L1172	M1173	L1174	M1175	L1176	F1177	L1178	M1179	L1180	F1181	L1182	M1183	L1184	M1185	G1186	E1187	V1188	L1189	M1190	L1191	M1192	F1193	L1194	M1195	G1196	P1197	Q1198	H1199	V1200	H1201	L1202	N1203	L1204	G1205	Q1206	S1207	L1208	R1209	L1210	L1211	R1212	F1213	G1214	A1215	L1216	C1217	G1218	E1219	M1220	F1221	F1222	F1223	F1224	A1225	L1226	A1227	L1228	N1229	P1230	V1231	T1232	W1233	F1234	L1235	M1236	L1237	S1238	F1239	K1240	S1241	L1242	P1243	Q1244	F1245	E1246	P1247	V1248	P1249	P1250	A1178	G1116	A1117	D1118	E1119	L1120	A1121	Y1122	V1123	F1124	N1125	G1126	G1127	L1128	M1129	F1130	L1131	M1132	H1133	L1134	G1135	E1136	R1137	P1138	F1139	P1140	W1141	F1142	G1143	S1144	G1145	D1146	L1147	G1148	M1149	L1150	C1151	M1152	ILE	L1153	L1154	D1155	M1156	L1157	V1158	L1159	I1160	L1161	F1162	L1163	L1164	M1165	G1166	E1167	V1168	L1169	M1170	S1171	L1172	M1173	L1174	M1175	L1176	F1177	L1178	M1179	L1180	F1181	L1182	M1183	L1184	M1185	G1186	E1187	V1188	L1189	M1190	L1191	M1192	F1193	L1194	M1195	G1196	P1197	Q1198	H1199	V1200	H1201	L1202	N1203	L1204	G1205	Q1206	S1207	L1208	R1209	L1210	L1211	R1212	F1213	G1214	A1215	L1216	C1217	G1218	E1219	M1220	F1221	F1222	F1223	F1224	A1225	L1226	A1227	L1228	N1229	P1230	V1231	T1232	W1233	F1234	L1235	M1236	L1237	S1238	F1239	K1240	S1241	L1242	P1243	Q1244	F1245	E1246	P1247	V1248	P1249	P1250	A1178	G1116	A1117	D1118	E1119	L1120	A1121	Y1122	V1123	F1124	N1125	G1126	G1127	L1128	M1129	F1130	L1131	M1132	H1133	L1134	G1135	E1136	R1137	P1138	F1139	P1140	W1141	F1142	G1143	S1144	G1145	D1146	L1147	G1148	M1149	L1150	C1151	M1152	ILE	L1153	L1154	D1155	M1156	L1157	V1158	L1159	I1160	L1161	F1162	L1163	L1164	M1165	G1166	E1167	V1168	L1169	M1170	S1171	L1172	M1173	L1174	M1175	L1176	F1177	L1178	M1179	L1180	F1181	L1182	M1183	L1184	M1185	G1186	E1187	V1188	L1189	M1190	L1191	M1192	F1193	L1194	M1195	G1196	P1197	Q1198	H1199	V1200	H1201	L1202	N1203	L1204	G1205	Q1206	S1207	L1208	R1209	L1210	L1211	R1212	F1213	G1214	A1215	L1216	C1217	G1218	E1219	M1220	F1221	F1222	F1223	F1224	A1225	L1226	A1227	L1228	N1229	P1230	V1231	T1232	W1233	F1234	L1235	M1236	L1237	S1238	F1239	K1240	S1241	L1242	P1243	Q1244	F1245	E1246	P1247	V1248	P1249	P1250	A1178	G1116	A1117	D1118	E1119	L1120	A1121	Y1122	V1123	F1124	N1125	G1126	G1127	L1128	M1129	F1130	L1131	M1132	H1133	L1134	G1135	E1136	R1137	P1138	F1139	P1140	W1141	F1142	G1143	S1144	G1145	D1146	L1147	G1148	M1149	L1150	C1151	M1152	ILE	L1153	L1154	D1155	M1156	L1157	V1158	L1159	I1160	L1161	F1162	L1163	L1164	M1165	G1166	E1167	V1168	L1169	M1170	S1171	L1172	M1173	L1174	M1175	L1176	F1177	L1178	M1179	L1180	F1181	L1182	M1183	L1184	M1185	G1186	E1187	V1188	L1189	M1190	L1191	M1192	F1193	L1194	M1195	G1196	P1197	Q1198	H1199	V1200	H1201	L1202	N1203	L1204	G1205	Q1206	S1207	L1208	R1209	L1210	L1211	R1212	F1213	G1214	A1215	L1216	C1217	G1218	E1219	M1220	F1221	F1222	F1223	F1224	A1225	L1226	A1227	L1228	N1229	P1230	V1231	T1232	W1233	F1234	L1235	M1236	L1237	S1238	F1239	K1240	S1241	L1242	P1243	Q1244	F1245	E1246	P1247	V1248	P1249	P1250	A1178	G1116	A1117	D1118	E1119	L1120	A1121	Y1122	V1123	F1124	N1125	G1126	G1127	L1128	M1129	F1130	L1131	M1132	H1133	L1134	G1135	E1136	R1137	P1138	F1139	P1140	W1141	F1142	G1143	S1144	G1145	D1146	L1147	G1148	M1149	L1150	C1151	M1152	ILE	L1153	L1154	D1155	M1156	L1157	V1158	L1159	I1160	L1161	F1162	L1163	L1164	M1165	G1166	E1167	V1168	L1169	M1170	S1171	L1172	M1173	L1174	M1175	L1176	F1177	L1178	M1179	L1180	F1181	L1182	M1183	L1184	M1185	G1186	E1187	V1188	L1189	M1190	L1191	M1192	F1193	L1194	M1195	G1196	P1197	Q1198	H1199	V1200	H1201	L1202	N1203	L1204	G1205	Q1206	S1207	L1208	R1209	L1210	L1211	R1212	F1213	G1214	A1215	L1216	C1217	G1218	E1219	M1220	F1221	F1222	F1223	F1224	A1225	L1226	A1227	L1228	N1229	P1230	V1231	T1232	W1233	F1234	L1235	M1236	L1237	S1238	F1239	K1240	S1241	L1242	P1243	Q1244	F1245	E1246	P1247	V1248	P1249	P1250	A1178	G1116	A1117	D1118	E1119	L1120	A1121	Y1122	V1123	F1124	N1125	G1126	G1127	L1128	M1129	F1130	L1131	M1132	H1133	L1134	G1135	E1136	R1137	P1138	F1139	P1140	W1141	F1142	G1143	S1144	G1145	D1146	L1147	G1148	M1149	L1150	C1151	M1152	ILE	L1153	L1154	D1155	M1156	L1157	V1158	L1159	I1160	L1161	F1162	L1163	L1164	M1165	G1166	E1167	V1168	L1169	M1170	S1171	L1172	M1173	L1174	M1175	L1176	F1177	L1178	M1179	L1180	F1181	L1182	M1183	L1184	M1185	G1186	E1187	V1188	L1189	M1190	L1191	M1192	F1193	L1194	M1195	G1196	P1197	Q1198	H1199	V1200	H1201	L1202	N1203	L1204	G1205





SER	LEU	L4677	GLY	TRP	GLY	ASP	GLY	F4234	P4158	F4061	Y3922	Q3850	GLU	VAL	E3665
LEU	GLU	L4681	GLY	GLU	VAL	GLU	ALA	V4235	R4159	F4062	F3933	A3853	VAL	GLU	D3666
ILE	GLU	E4682	GLY	VAL	GLY	VAL	ALA	F4237	L4160	F4238	Y3934	GLU	VAL	GLU	H3667
THR	THR	F4683	GLY	ALA	GLY	ALA	GLY	C4238	R4161	S4074	W3935	LEU	VAL	GLU	S3668
ALA	ALA	D4684	GLY	GLY	GLY	GLY	GLY	E4239	E4168	D4240	Y3936	GLY	GLY	GLY	F3669
HIS	HIS	G4685	LEU	HIS	GLY	GLY	GLY	D4241	L4087	L4088	Y3937	GLY	GLY	GLY	E3670
ASN	ASN	L4686	VAL	GLU	LEU	VAL	GLY	T4242	L4171	S4088	Y3938	GLY	GLY	GLY	D3671
GLU	GLU	L4687	PRO	ALA	VAL	GLY	GLY	F4243	E4172	S4089	G3939	MET	VAL	GLY	S3678
ALA	ALA	T4688	GLU	GLY	VAL	GLY	GLY	F4244	F4173	S4090	Y3940	GLY	GLY	GLY	K3679
LYS	LYS	L4689	PRO	PRO	ALA	GLY	GLY	F4245	F4174	K4091	V3942	GLY	GLY	GLY	K3760
PRO	PRO	T4690	GLY	GLY	GLY	GLY	GLY	L4251	R4175	D4092	I3943	ASP	GLY	GLY	K3761
ASP	ASP	Q4691	PRO	GLY	VAL	GLY	GLY	S4252	P4176	F4093	F3944	GLY	GLY	GLY	R3762
PRO	PRO	L4692	GLY	ALA	VAL	GLY	GLY	GLY	Y4177	F4094	E3945	THR	THR	GLN	L3763
PRO	PRO	D4696	GLY	GLU	GLY	GLY	GLY	PRO	L4178	Q4102	Q3946	VAL	VAL	GLU	L3764
GLY	GLY	V4697	GLY	GLY	GLY	GLY	GLY	GLY	G4179	F4103	G3947	ILE	ILE	GLU	Q3765
LEU	LEU	K4698	VAL	VAL	VAL	VAL	VAL	GLY	R4180	T4104	K3948	ASN	ASN	GLU	Q3766
THR	THR	G4699	ALA	ALA	ALA	ALA	ALA	PRO	E4182	G4105	F3951	ARG	ARG	GLU	R3769
TRP	TRP	Q4700	VAL	VAL	VAL	VAL	VAL	GLY	I4183	E4107	F3962	ASN	ASN	GLU	T3772
ALA	ALA	W4701	GLY	GLY	GLY	GLY	GLY	GLY	M4184	E4108	N3963	GLY	GLY	VAL	R3773
GLY	GLY	V4705	ASP	ASP	ASP	ASP	ASP	GLY	G4185	Q4109	S3964	LYS	LYS	GLU	A3785
THR	THR	L4706	GLY	GLY	GLY	GLY	GLY	GLY	S4187	F4110	L3965	LYS	LYS	GLU	C3786
GLY	GLY	W4707	ASN	PHE	PRO	PRO	PRO	GLY	R4188	S4115	T3966	LYS	LYS	LYS	K3787
GLY	GLY	F4711	GLY	ARG	PRO	PRO	PRO	GLY	I4190	D4118	E3877	LYS	LYS	LYS	P3695
GLY	GLY	Y4715	GLY	ARG	PRO	PRO	PRO	GLY	E4191	E4119	Q3970	LYS	LYS	LYS	D3696
GLY	GLY	L4716	GLY	GLY	GLY	GLY	GLY	GLY	R4192	N4120	S3983	LYS	LYS	LYS	F3697
GLY	GLY	W4717	GLY	GLY	GLY	GLY	GLY	GLY	I4193	M4121	S3984	LYS	LYS	LYS	M3793
GLY	GLY	K4718	GLY	GLY	GLY	GLY	GLY	GLY	F4194	M4122	R3984	LYS	LYS	LYS	V3794
GLY	GLY	F4719	GLY	GLY	GLY	GLY	GLY	GLY	F4195	N4123	L3985	LYS	LYS	LYS	L3698
GLY	GLY	W4720	GLY	GLY	GLY	GLY	GLY	GLY	E4196	M4124	L3986	LYS	LYS	LYS	L3699
GLY	GLY	K4721	GLY	GLY	GLY	GLY	GLY	GLY	I4197	F4125	D3987	LYS	LYS	LYS	Q3700
GLY	GLY	V4724	GLY	GLY	GLY	GLY	GLY	GLY	W4205	E4126	V3989	LYS	LYS	LYS	L3701
GLY	GLY	L4725	GLY	GLY	GLY	GLY	GLY	GLY	E4206	E4127	V3990	LYS	LYS	LYS	V3702
GLY	GLY	D4726	GLY	GLY	GLY	GLY	GLY	GLY	M4207	F4128	G3892	LYS	LYS	LYS	T3708
GLY	GLY	K4727	GLY	GLY	GLY	GLY	GLY	GLY	P4208	R4131	H3998	LYS	LYS	LYS	A3709
GLY	GLY	G4728	GLY	GLY	GLY	GLY	GLY	GLY	Q4209	F4132	V3999	LYS	LYS	LYS	L3710
GLY	GLY	W4729	GLY	GLY	GLY	GLY	GLY	GLY	V4210	P4135	H3998	LYS	LYS	LYS	D3717
GLY	GLY	L4730	GLY	GLY	GLY	GLY	GLY	GLY	K4214	F4139	K4002	LYS	LYS	LYS	E3718
GLY	GLY	F4731	GLY	GLY	GLY	GLY	GLY	GLY	I4218	G4140	L4003	LYS	LYS	LYS	D3719
GLY	GLY	W4732	GLY	GLY	GLY	GLY	GLY	GLY	F4217	F4141	A4004	LYS	LYS	LYS	Y3720
GLY	GLY	K4733	GLY	GLY	GLY	GLY	GLY	GLY	I4218	F4141	Q4005	LYS	LYS	LYS	L3721
GLY	GLY	R4734	GLY	GLY	GLY	GLY	GLY	GLY	V4221	A4144	D4006	LYS	LYS	LYS	Y3725
GLY	GLY	E4735	GLY	GLY	GLY	GLY	GLY	GLY	W4222	V4145	S4007	LYS	LYS	LYS	H3734
GLY	GLY	L4737	GLY	GLY	GLY	GLY	GLY	GLY	E4223	L4146	Q4009	LYS	LYS	LYS	LEU
GLY	GLY	W4738	GLY	GLY	GLY	GLY	GLY	GLY	M4223	L4147	I4010	LYS	LYS	LYS	GLU
GLY	GLY	F4739	GLY	GLY	GLY	GLY	GLY	GLY	E4224	T4148	M4023	LYS	LYS	LYS	GLU
GLY	GLY	K4740	GLY	GLY	GLY	GLY	GLY	GLY	GLY	F4149	M4034	LYS	LYS	LYS	GLY
GLY	GLY	L4741	GLY	GLY	GLY	GLY	GLY	GLY	GLY	L4150	V4035	LYS	LYS	LYS	ASN
GLY	GLY	W4742	GLY	GLY	GLY	GLY	GLY	GLY	E4229	H4153	Q4036	LYS	LYS	LYS	GLY
GLY	GLY	F4743	GLY	GLY	GLY	GLY	GLY	GLY	K4230	V4154	M4037	LYS	LYS	LYS	K3837
GLY	GLY	W4744	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4155	M4047	LYS	LYS	LYS	T3838
GLY	GLY	K4745	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	C3839
GLY	GLY	L4746	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4747	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	S3840
GLY	GLY	F4748	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4749	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4750	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4751	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4752	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4753	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4754	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4755	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4756	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4757	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4758	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4759	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4760	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4761	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4762	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4763	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4764	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4765	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4766	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4767	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4768	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4769	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4770	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4771	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4772	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4773	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4774	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4775	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4776	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4777	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4778	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4779	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4780	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4781	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4782	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4783	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4784	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4785	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4786	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4787	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4788	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	K4789	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	L4790	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156	M4047	LYS	LYS	LYS	GLU
GLY	GLY	W4791	GLY	GLY	GLY	GLY	GLY	GLY	E4232	H4156</					

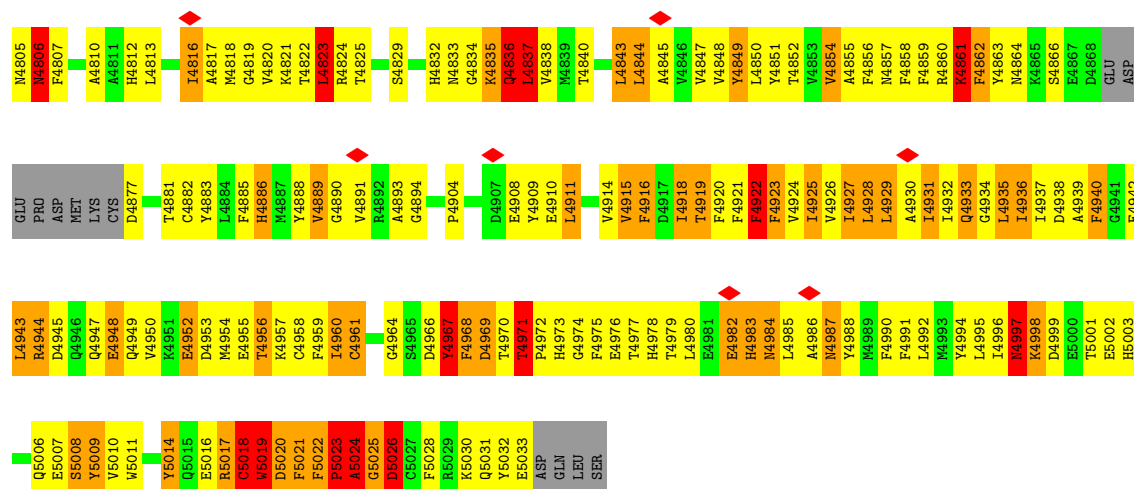




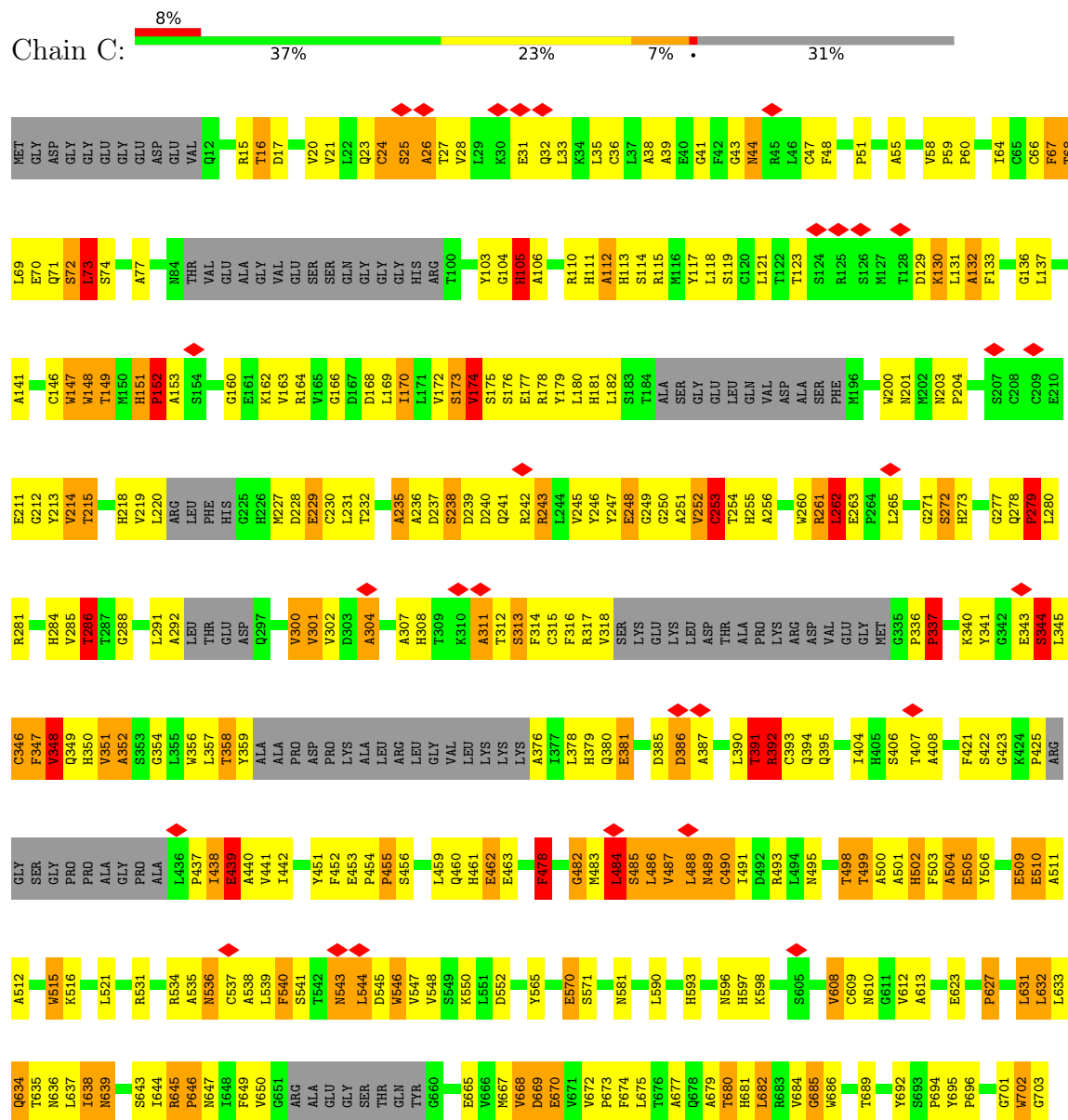








• Molecule 1: Ryanodine receptor 1



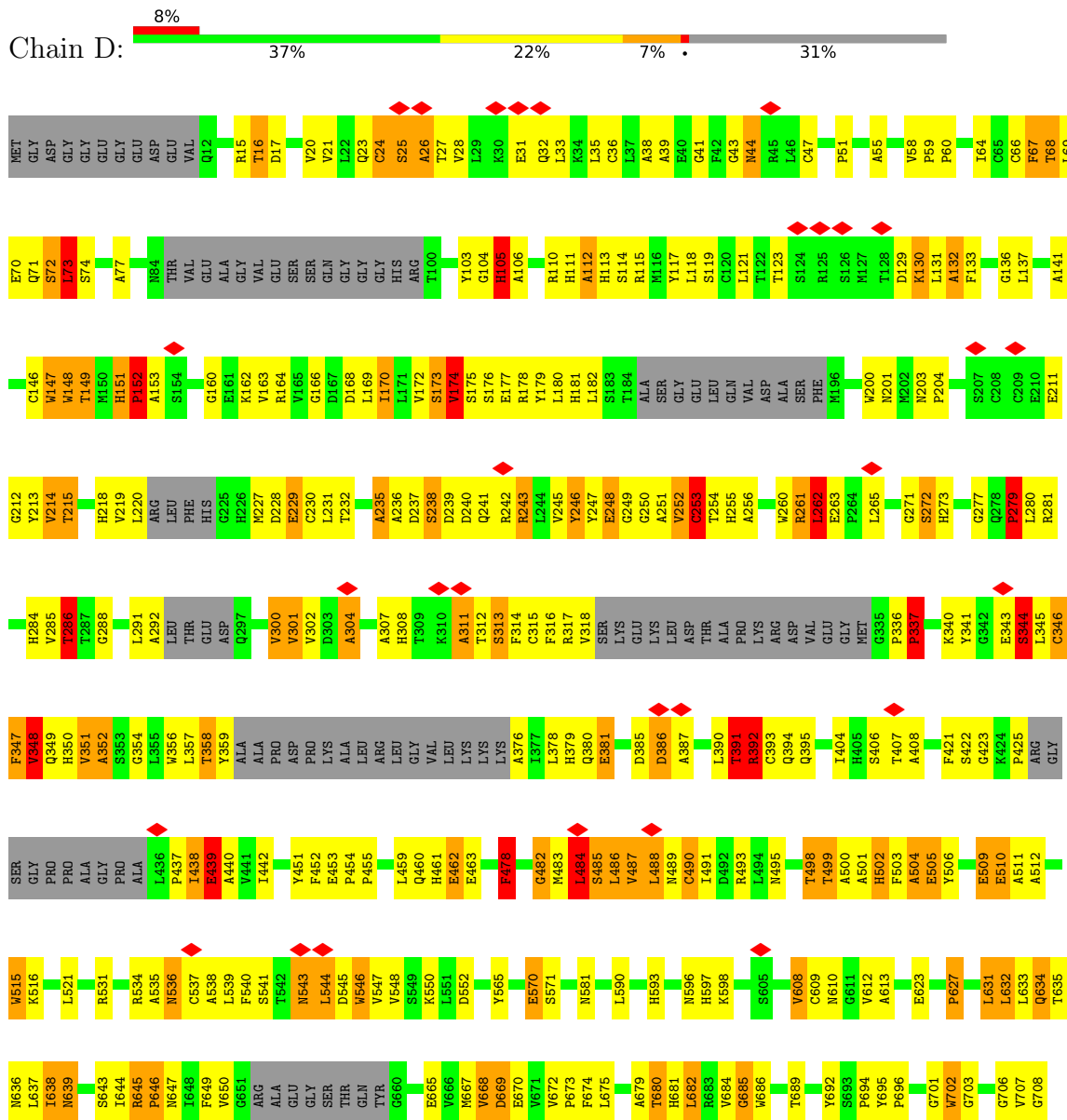








- Molecule 1: Ryanodine receptor 1

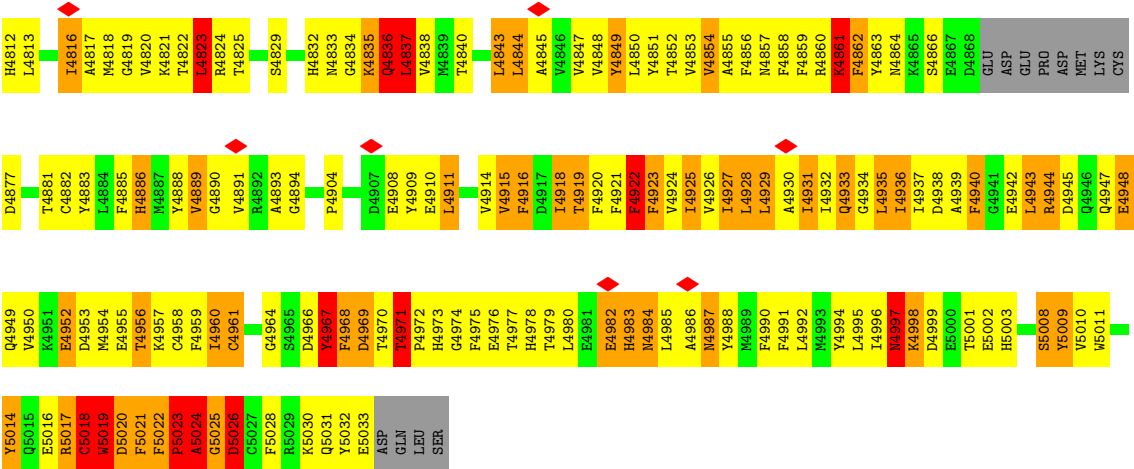












4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	41743	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 ($e^-/\text{\AA}^2$)	48	Depositor
Minimum defocus (nm)	1300	Depositor
Maximum defocus (nm)	5400	Depositor
Magnification	100286	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.532	Depositor
Minimum map value	-0.339	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.014	Depositor
Recommended contour level	0.0967	Depositor
Map size ($\text{\AA}$)	547.232, 547.232, 547.232	wwPDB
Map dimensions	392, 392, 392	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.396, 1.396, 1.396	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	1.58	125/18508 (0.7%)	1.86	634/25601 (2.5%)
1	B	1.58	125/18508 (0.7%)	1.86	634/25601 (2.5%)
1	C	1.58	125/18508 (0.7%)	1.86	632/25601 (2.5%)
1	D	1.58	124/18508 (0.7%)	1.86	633/25601 (2.5%)
All	All	1.58	499/74032 (0.7%)	1.86	2533/102404 (2.5%)

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	A	1	3
1	B	1	3
1	C	1	3
1	D	1	3
All	All	4	12

All (499) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4859	PHE	CA-CB	-68.22	0.58	1.53
1	B	4859	PHE	CA-CB	-68.22	0.58	1.53
1	C	4859	PHE	CA-CB	-68.22	0.58	1.53
1	D	4859	PHE	CA-CB	-68.22	0.58	1.53
1	A	4691	GLN	CA-CB	-56.69	0.63	1.53
1	B	4691	GLN	CA-CB	-56.69	0.63	1.53
1	C	4691	GLN	CA-CB	-56.69	0.63	1.53
1	D	4691	GLN	CA-CB	-56.69	0.63	1.53
1	A	4168	GLU	CA-CB	-52.75	0.64	1.53
1	B	4168	GLU	CA-CB	-52.75	0.64	1.53
1	C	4168	GLU	CA-CB	-52.75	0.64	1.53
1	D	4168	GLU	CA-CB	-52.75	0.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4557	ARG	CA-CB	-50.15	0.74	1.53
1	B	4557	ARG	CA-CB	-50.15	0.74	1.53
1	C	4557	ARG	CA-CB	-50.15	0.74	1.53
1	D	4557	ARG	CA-CB	-50.15	0.74	1.53
1	A	4684	ASP	CA-CB	-42.70	0.83	1.53
1	B	4684	ASP	CA-CB	-42.70	0.83	1.53
1	C	4684	ASP	CA-CB	-42.70	0.83	1.53
1	D	4684	ASP	CA-CB	-42.70	0.83	1.53
1	A	1850	VAL	CA-CB	-34.83	1.10	1.54
1	B	1850	VAL	CA-CB	-34.83	1.10	1.54
1	C	1850	VAL	CA-CB	-34.83	1.10	1.54
1	D	1850	VAL	CA-CB	-34.83	1.10	1.54
1	A	1747	LEU	CA-CB	-32.06	0.72	1.54
1	B	1747	LEU	CA-CB	-32.06	0.72	1.54
1	C	1747	LEU	CA-CB	-32.06	0.72	1.54
1	D	1747	LEU	CA-CB	-32.06	0.72	1.54
1	A	4682	GLU	CA-CB	-31.20	1.04	1.53
1	B	4682	GLU	CA-CB	-31.20	1.04	1.53
1	C	4682	GLU	CA-CB	-31.20	1.04	1.53
1	D	4682	GLU	CA-CB	-31.20	1.04	1.53
1	A	1746	THR	CA-CB	-29.02	1.04	1.53
1	B	1746	THR	CA-CB	-29.02	1.04	1.53
1	C	1746	THR	CA-CB	-29.02	1.04	1.53
1	D	1746	THR	CA-CB	-28.99	1.04	1.53
1	D	3527	PRO	CA-CB	-28.55	0.96	1.53
1	A	3527	PRO	CA-CB	-28.50	0.96	1.53
1	B	3527	PRO	CA-CB	-28.50	0.96	1.53
1	C	3527	PRO	CA-CB	-28.50	0.96	1.53
1	A	1297	PHE	CB-CG	-27.73	0.86	1.50
1	C	1297	PHE	CB-CG	-27.73	0.86	1.50
1	D	1297	PHE	CB-CG	-27.73	0.86	1.50
1	B	1297	PHE	CB-CG	-27.70	0.86	1.50
1	A	1749	PRO	CA-CB	-26.59	1.17	1.54
1	B	1749	PRO	CA-CB	-26.59	1.17	1.54
1	C	1749	PRO	CA-CB	-26.59	1.17	1.54
1	D	1749	PRO	CA-CB	-26.59	1.17	1.54
1	A	1536	SER	CA-CB	-25.73	1.13	1.53
1	B	1536	SER	CA-CB	-25.73	1.13	1.53
1	C	1536	SER	CA-CB	-25.73	1.13	1.53
1	D	1536	SER	CA-CB	-25.73	1.13	1.53
1	A	1537	ASN	CA-CB	-21.39	1.17	1.53
1	C	1537	ASN	CA-CB	-21.39	1.17	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	1537	ASN	CA-CB	-21.39	1.17	1.53
1	B	1537	ASN	CA-CB	-21.34	1.17	1.53
1	B	1535	GLU	CA-CB	-20.32	1.19	1.53
1	A	1535	GLU	CA-CB	-20.29	1.19	1.53
1	C	1535	GLU	CA-CB	-20.29	1.19	1.53
1	D	1535	GLU	CA-CB	-20.24	1.19	1.53
1	B	978	THR	CA-CB	-19.72	1.01	1.54
1	B	2047	GLU	CA-CB	19.70	1.92	1.53
1	A	978	THR	CA-CB	-19.69	1.01	1.54
1	D	978	THR	CA-CB	-19.69	1.01	1.54
1	A	2047	GLU	CA-CB	19.68	1.92	1.53
1	C	2047	GLU	CA-CB	19.68	1.92	1.53
1	D	2047	GLU	CA-CB	19.68	1.92	1.53
1	C	978	THR	CA-CB	-19.68	1.01	1.54
1	A	1538	THR	CA-CB	-19.39	1.26	1.53
1	B	1538	THR	CA-CB	-19.39	1.26	1.53
1	C	1538	THR	CA-CB	-19.39	1.26	1.53
1	D	1538	THR	CA-CB	-19.39	1.26	1.53
1	B	3217	SER	CA-CB	-18.75	1.16	1.53
1	C	3217	SER	CA-CB	-18.75	1.16	1.53
1	A	3217	SER	CA-CB	-18.73	1.16	1.53
1	D	3217	SER	CA-CB	-18.73	1.16	1.53
1	A	3090	ALA	CA-CB	-16.19	0.99	1.52
1	B	3090	ALA	CA-CB	-16.19	0.99	1.52
1	C	3090	ALA	CA-CB	-16.19	0.99	1.52
1	D	3090	ALA	CA-CB	-16.19	0.99	1.52
1	A	5022	PHE	CA-C	-16.05	1.36	1.53
1	B	5022	PHE	CA-C	-16.05	1.36	1.53
1	C	5022	PHE	CA-C	-16.05	1.36	1.53
1	D	5022	PHE	CA-C	-16.05	1.36	1.53
1	C	1750	PRO	CA-CB	-12.50	1.36	1.53
1	A	1750	PRO	CA-CB	-12.47	1.36	1.53
1	B	1750	PRO	CA-CB	-12.47	1.36	1.53
1	D	1750	PRO	CA-CB	-12.47	1.36	1.53
1	A	3152	PHE	CA-CB	-12.37	1.28	1.53
1	C	3152	PHE	CA-CB	-12.37	1.28	1.53
1	D	3152	PHE	CA-CB	-12.37	1.28	1.53
1	B	3152	PHE	CA-CB	-12.36	1.28	1.53
1	D	712	TYR	CA-C	-12.12	1.39	1.52
1	A	712	TYR	CA-C	-12.08	1.39	1.52
1	C	712	TYR	CA-C	-12.08	1.39	1.52
1	B	712	TYR	CA-C	-12.02	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	485	SER	C-O	11.36	1.37	1.24
1	C	485	SER	C-O	11.30	1.37	1.24
1	A	485	SER	C-O	11.29	1.37	1.24
1	B	485	SER	C-O	11.29	1.37	1.24
1	A	2586	VAL	CA-CB	-10.92	1.39	1.54
1	C	2586	VAL	CA-CB	-10.92	1.39	1.54
1	D	2586	VAL	CA-CB	-10.92	1.39	1.54
1	B	2586	VAL	CA-CB	-10.91	1.39	1.54
1	A	2193	GLN	CA-C	10.80	1.65	1.52
1	C	2193	GLN	CA-C	10.80	1.65	1.52
1	D	2193	GLN	CA-C	10.80	1.65	1.52
1	B	2193	GLN	CA-C	10.79	1.65	1.52
1	A	5018	CYS	C-O	-10.53	1.10	1.24
1	C	5018	CYS	C-O	-10.53	1.10	1.24
1	D	5018	CYS	C-O	-10.53	1.10	1.24
1	B	4092	ASP	N-CA	-10.52	1.32	1.46
1	B	5018	CYS	C-O	-10.52	1.10	1.24
1	A	4092	ASP	N-CA	-10.50	1.32	1.46
1	C	4092	ASP	N-CA	-10.50	1.32	1.46
1	D	4092	ASP	N-CA	-10.50	1.32	1.46
1	A	5019	TRP	C-O	-10.41	1.10	1.24
1	B	5019	TRP	C-O	-10.41	1.10	1.24
1	C	5019	TRP	C-O	-10.41	1.10	1.24
1	D	5019	TRP	C-O	-10.41	1.10	1.24
1	A	1745	ILE	CA-CB	-9.98	1.40	1.54
1	B	1745	ILE	CA-CB	-9.98	1.40	1.54
1	C	1745	ILE	CA-CB	-9.98	1.40	1.54
1	D	1745	ILE	CA-CB	-9.98	1.40	1.54
1	A	745	SER	CA-C	-9.69	1.42	1.53
1	B	745	SER	CA-C	-9.69	1.42	1.53
1	C	745	SER	CA-C	-9.69	1.42	1.53
1	D	745	SER	CA-C	-9.69	1.42	1.53
1	A	752	VAL	CA-C	-9.32	1.45	1.52
1	C	752	VAL	CA-C	-9.32	1.45	1.52
1	D	752	VAL	CA-C	-9.32	1.45	1.52
1	A	631	LEU	C-N	9.31	1.46	1.33
1	B	631	LEU	C-N	9.31	1.46	1.33
1	C	631	LEU	C-N	9.31	1.46	1.33
1	D	631	LEU	C-N	9.31	1.46	1.33
1	B	752	VAL	CA-C	-9.27	1.45	1.52
1	C	1657	LEU	CA-CB	9.20	1.68	1.53
1	A	1657	LEU	CA-CB	9.17	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1657	LEU	CA-CB	9.17	1.67	1.53
1	D	1657	LEU	CA-CB	9.17	1.67	1.53
1	A	5020	ASP	CA-C	-9.11	1.40	1.52
1	B	5020	ASP	CA-C	-9.11	1.40	1.52
1	C	5020	ASP	CA-C	-9.11	1.40	1.52
1	D	5020	ASP	CA-C	-9.11	1.40	1.52
1	A	485	SER	N-CA	9.06	1.57	1.46
1	B	485	SER	N-CA	9.06	1.57	1.46
1	C	485	SER	N-CA	9.06	1.57	1.46
1	D	485	SER	N-CA	9.06	1.57	1.46
1	A	5018	CYS	CA-C	-8.80	1.41	1.52
1	B	5018	CYS	CA-C	-8.80	1.41	1.52
1	C	5018	CYS	CA-C	-8.80	1.41	1.52
1	D	5018	CYS	CA-C	-8.80	1.41	1.52
1	A	759	ILE	CA-C	-8.54	1.42	1.52
1	B	759	ILE	CA-C	-8.54	1.42	1.52
1	C	759	ILE	CA-C	-8.54	1.42	1.52
1	D	759	ILE	CA-C	-8.54	1.42	1.52
1	A	3837	GLN	C-N	-8.40	1.22	1.33
1	B	3837	GLN	C-N	-8.40	1.22	1.33
1	C	3837	GLN	C-N	-8.40	1.22	1.33
1	D	3837	GLN	C-N	-8.38	1.22	1.33
1	A	4092	ASP	CA-C	8.21	1.63	1.52
1	B	4092	ASP	CA-C	8.21	1.63	1.52
1	C	4092	ASP	CA-C	8.21	1.63	1.52
1	D	4092	ASP	CA-C	8.21	1.63	1.52
1	A	5022	PHE	C-O	-8.04	1.13	1.24
1	B	5022	PHE	C-O	-8.04	1.13	1.24
1	D	5022	PHE	C-O	-8.04	1.13	1.24
1	A	692	TYR	CA-C	-8.02	1.42	1.52
1	B	692	TYR	CA-C	-8.02	1.42	1.52
1	C	692	TYR	CA-C	-8.02	1.42	1.52
1	D	692	TYR	CA-C	-8.02	1.42	1.52
1	C	5022	PHE	C-O	-8.01	1.13	1.24
1	A	649	PHE	CA-C	-7.90	1.42	1.52
1	C	649	PHE	CA-C	-7.90	1.42	1.52
1	A	4207	MET	CA-CB	-7.88	1.41	1.53
1	B	4207	MET	CA-CB	-7.88	1.41	1.53
1	C	4207	MET	CA-CB	-7.88	1.41	1.53
1	D	4207	MET	CA-CB	-7.88	1.41	1.53
1	B	649	PHE	CA-C	-7.86	1.42	1.52
1	D	649	PHE	CA-C	-7.86	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	766	GLY	CA-C	-7.62	1.43	1.52
1	A	766	GLY	CA-C	-7.54	1.43	1.52
1	C	766	GLY	CA-C	-7.50	1.43	1.52
1	D	766	GLY	CA-C	-7.50	1.43	1.52
1	A	746	CYS	N-CA	-7.44	1.36	1.46
1	B	746	CYS	N-CA	-7.44	1.36	1.46
1	D	746	CYS	N-CA	-7.44	1.36	1.46
1	C	746	CYS	N-CA	-7.42	1.36	1.46
1	A	695	TYR	CA-C	-7.42	1.45	1.52
1	C	695	TYR	CA-C	-7.42	1.45	1.52
1	D	695	TYR	CA-C	-7.42	1.45	1.52
1	B	695	TYR	CA-C	-7.38	1.45	1.52
1	A	5018	CYS	CA-CB	-7.20	1.41	1.53
1	B	5018	CYS	CA-CB	-7.20	1.41	1.53
1	C	5018	CYS	CA-CB	-7.20	1.41	1.53
1	D	5018	CYS	CA-CB	-7.20	1.41	1.53
1	A	695	TYR	C-N	-7.06	1.27	1.33
1	B	695	TYR	C-N	-7.06	1.27	1.33
1	C	695	TYR	C-N	-7.06	1.27	1.33
1	D	695	TYR	C-N	-7.06	1.27	1.33
1	A	650	VAL	CA-C	-6.97	1.44	1.52
1	B	650	VAL	CA-C	-6.97	1.44	1.52
1	C	650	VAL	CA-C	-6.97	1.44	1.52
1	D	650	VAL	CA-C	-6.97	1.44	1.52
1	A	633	LEU	CA-C	-6.93	1.43	1.53
1	B	633	LEU	CA-C	-6.93	1.43	1.53
1	C	633	LEU	CA-C	-6.93	1.43	1.53
1	D	633	LEU	CA-C	-6.93	1.43	1.53
1	A	754	SER	CA-C	-6.89	1.44	1.52
1	B	754	SER	CA-C	-6.89	1.44	1.52
1	C	754	SER	CA-C	-6.89	1.44	1.52
1	D	754	SER	CA-C	-6.89	1.44	1.52
1	A	5021	PHE	CA-C	-6.88	1.43	1.52
1	B	5021	PHE	CA-C	-6.88	1.43	1.52
1	C	5021	PHE	CA-C	-6.88	1.43	1.52
1	D	5021	PHE	CA-C	-6.88	1.43	1.52
1	D	742	ASP	CA-C	-6.87	1.44	1.52
1	A	742	ASP	CA-C	-6.86	1.44	1.52
1	A	5023	PRO	CA-C	-6.86	1.42	1.52
1	B	5023	PRO	CA-C	-6.86	1.42	1.52
1	C	742	ASP	CA-C	-6.86	1.44	1.52
1	C	5023	PRO	CA-C	-6.86	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	5023	PRO	CA-C	-6.86	1.42	1.52
1	B	742	ASP	CA-C	-6.85	1.44	1.52
1	A	3158	LEU	CA-CB	6.62	1.66	1.53
1	B	3158	LEU	CA-CB	6.62	1.66	1.53
1	C	3158	LEU	CA-CB	6.62	1.66	1.53
1	A	674	PHE	CA-C	-6.62	1.45	1.52
1	B	674	PHE	CA-C	-6.62	1.45	1.52
1	C	674	PHE	CA-C	-6.62	1.45	1.52
1	D	674	PHE	CA-C	-6.61	1.45	1.52
1	D	3158	LEU	CA-CB	6.61	1.66	1.53
1	A	634	GLN	CA-C	-6.59	1.44	1.52
1	B	634	GLN	CA-C	-6.59	1.44	1.52
1	C	634	GLN	CA-C	-6.59	1.44	1.52
1	D	634	GLN	CA-C	-6.59	1.44	1.52
1	A	484	LEU	C-O	6.56	1.32	1.24
1	B	484	LEU	C-O	6.56	1.32	1.24
1	C	484	LEU	C-O	6.56	1.32	1.24
1	D	484	LEU	C-O	6.56	1.32	1.24
1	A	743	VAL	N-CA	-6.56	1.37	1.46
1	B	743	VAL	N-CA	-6.56	1.37	1.46
1	C	743	VAL	N-CA	-6.56	1.37	1.46
1	D	743	VAL	N-CA	-6.56	1.37	1.46
1	B	729	PRO	CA-C	-6.45	1.44	1.52
1	A	5020	ASP	N-CA	-6.45	1.38	1.46
1	B	5020	ASP	N-CA	-6.45	1.38	1.46
1	C	5020	ASP	N-CA	-6.45	1.38	1.46
1	D	5020	ASP	N-CA	-6.45	1.38	1.46
1	C	729	PRO	CA-C	-6.44	1.44	1.52
1	A	729	PRO	CA-C	-6.42	1.44	1.52
1	A	5023	PRO	CA-CB	-6.36	1.44	1.53
1	B	5023	PRO	CA-CB	-6.36	1.44	1.53
1	D	5023	PRO	CA-CB	-6.36	1.44	1.53
1	D	729	PRO	CA-C	-6.35	1.44	1.52
1	C	5023	PRO	CA-CB	-6.31	1.44	1.53
1	A	696	PRO	N-CA	-6.30	1.42	1.47
1	B	696	PRO	N-CA	-6.30	1.42	1.47
1	D	696	PRO	N-CA	-6.30	1.42	1.47
1	C	696	PRO	N-CA	-6.29	1.42	1.47
1	A	5025	GLY	CA-C	-6.29	1.43	1.51
1	C	5025	GLY	CA-C	-6.29	1.43	1.51
1	D	5025	GLY	CA-C	-6.29	1.43	1.51
1	A	696	PRO	CA-C	-6.26	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	696	PRO	CA-C	-6.26	1.46	1.52
1	C	696	PRO	CA-C	-6.26	1.46	1.52
1	D	696	PRO	CA-C	-6.26	1.46	1.52
1	B	5025	GLY	CA-C	-6.25	1.43	1.51
1	B	745	SER	N-CA	-6.22	1.39	1.46
1	C	745	SER	N-CA	-6.22	1.39	1.46
1	D	763	PRO	CA-C	-6.22	1.45	1.52
1	A	763	PRO	CA-C	-6.21	1.45	1.52
1	B	763	PRO	CA-C	-6.21	1.45	1.52
1	C	763	PRO	CA-C	-6.21	1.45	1.52
1	A	745	SER	N-CA	-6.18	1.39	1.46
1	D	745	SER	N-CA	-6.18	1.39	1.46
1	A	711	LEU	CA-C	-6.16	1.44	1.52
1	B	711	LEU	CA-C	-6.16	1.44	1.52
1	C	711	LEU	CA-C	-6.16	1.44	1.52
1	D	711	LEU	CA-C	-6.16	1.44	1.52
1	A	639	ASN	CA-C	-6.16	1.44	1.53
1	B	639	ASN	CA-C	-6.16	1.44	1.53
1	C	639	ASN	CA-C	-6.16	1.44	1.53
1	D	639	ASN	CA-C	-6.16	1.44	1.53
1	A	540	PHE	C-O	-6.15	1.17	1.24
1	B	540	PHE	C-O	-6.15	1.17	1.24
1	C	540	PHE	C-O	-6.15	1.17	1.24
1	A	638	ILE	CA-C	-6.14	1.44	1.52
1	B	638	ILE	CA-C	-6.14	1.44	1.52
1	C	638	ILE	CA-C	-6.14	1.44	1.52
1	D	638	ILE	CA-C	-6.14	1.44	1.52
1	A	675	LEU	CA-C	-6.10	1.45	1.52
1	B	675	LEU	CA-C	-6.10	1.45	1.52
1	C	675	LEU	CA-C	-6.10	1.45	1.52
1	D	675	LEU	CA-C	-6.10	1.45	1.52
1	D	540	PHE	C-O	-6.09	1.17	1.24
1	A	1687	SER	CA-C	6.04	1.60	1.52
1	B	1687	SER	CA-C	6.04	1.60	1.52
1	C	1687	SER	CA-C	6.04	1.60	1.52
1	D	1687	SER	CA-C	6.04	1.60	1.52
1	A	3837	GLN	N-CA	-6.03	1.38	1.45
1	B	3837	GLN	N-CA	-6.03	1.38	1.45
1	D	3837	GLN	N-CA	-6.03	1.38	1.45
1	A	632	LEU	CA-C	-5.98	1.44	1.52
1	B	632	LEU	CA-C	-5.98	1.44	1.52
1	C	632	LEU	CA-C	-5.98	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	3837	GLN	N-CA	-5.97	1.38	1.45
1	C	637	LEU	CA-C	-5.96	1.45	1.52
1	A	4666	VAL	C-N	5.96	1.41	1.34
1	B	4666	VAL	C-N	5.96	1.41	1.34
1	C	4666	VAL	C-N	5.96	1.41	1.34
1	B	764	VAL	CA-C	-5.93	1.45	1.52
1	D	4666	VAL	C-N	5.92	1.41	1.34
1	D	637	LEU	CA-C	-5.92	1.45	1.52
1	A	5024	ALA	C-O	-5.92	1.16	1.24
1	C	5024	ALA	C-O	-5.92	1.16	1.24
1	D	5024	ALA	C-O	-5.92	1.16	1.24
1	D	632	LEU	CA-C	-5.91	1.44	1.52
1	A	788	LYS	CA-C	-5.91	1.45	1.52
1	A	5023	PRO	C-O	-5.91	1.16	1.24
1	B	788	LYS	CA-C	-5.91	1.45	1.52
1	B	5023	PRO	C-O	-5.91	1.16	1.24
1	C	788	LYS	CA-C	-5.91	1.45	1.52
1	C	5023	PRO	C-O	-5.91	1.16	1.24
1	D	5023	PRO	C-O	-5.91	1.16	1.24
1	D	788	LYS	CA-C	-5.91	1.45	1.52
1	A	637	LEU	CA-C	-5.90	1.45	1.52
1	B	637	LEU	CA-C	-5.90	1.45	1.52
1	A	764	VAL	CA-C	-5.89	1.45	1.52
1	C	764	VAL	CA-C	-5.89	1.45	1.52
1	D	764	VAL	CA-C	-5.89	1.45	1.52
1	B	5024	ALA	C-O	-5.88	1.16	1.24
1	A	636	ASN	CA-C	-5.86	1.45	1.52
1	B	636	ASN	CA-C	-5.86	1.45	1.52
1	C	636	ASN	CA-C	-5.86	1.45	1.52
1	D	636	ASN	CA-C	-5.86	1.45	1.52
1	A	712	TYR	N-CA	-5.85	1.39	1.46
1	B	712	TYR	N-CA	-5.85	1.39	1.46
1	C	712	TYR	N-CA	-5.85	1.39	1.46
1	D	712	TYR	N-CA	-5.85	1.39	1.46
1	A	752	VAL	N-CA	-5.85	1.40	1.46
1	B	752	VAL	N-CA	-5.85	1.40	1.46
1	D	752	VAL	N-CA	-5.85	1.40	1.46
1	A	710	ASP	CA-C	-5.82	1.45	1.52
1	B	710	ASP	CA-C	-5.82	1.45	1.52
1	C	710	ASP	CA-C	-5.82	1.45	1.52
1	A	708	GLY	CA-C	-5.80	1.43	1.51
1	D	708	GLY	CA-C	-5.80	1.43	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	708	GLY	CA-C	-5.79	1.43	1.51
1	C	708	GLY	CA-C	-5.79	1.43	1.51
1	D	710	ASP	CA-C	-5.79	1.45	1.52
1	C	743	VAL	CA-C	-5.78	1.46	1.52
1	A	769	GLU	CA-C	-5.78	1.45	1.52
1	B	769	GLU	CA-C	-5.78	1.45	1.52
1	C	752	VAL	N-CA	-5.78	1.40	1.46
1	C	769	GLU	CA-C	-5.78	1.45	1.52
1	D	769	GLU	CA-C	-5.78	1.45	1.52
1	A	743	VAL	CA-C	-5.75	1.46	1.52
1	B	743	VAL	CA-C	-5.75	1.46	1.52
1	D	743	VAL	CA-C	-5.75	1.46	1.52
1	A	4555	LEU	CA-CB	5.74	1.63	1.53
1	B	4555	LEU	CA-CB	5.74	1.63	1.53
1	C	4555	LEU	CA-CB	5.74	1.63	1.53
1	D	4555	LEU	CA-CB	5.74	1.63	1.53
1	A	749	ASP	CA-C	-5.73	1.45	1.52
1	B	749	ASP	CA-C	-5.73	1.45	1.52
1	C	749	ASP	CA-C	-5.73	1.45	1.52
1	D	749	ASP	CA-C	-5.73	1.45	1.52
1	A	5021	PHE	N-CA	-5.69	1.38	1.46
1	B	5021	PHE	N-CA	-5.69	1.38	1.46
1	C	5021	PHE	N-CA	-5.69	1.38	1.46
1	D	5021	PHE	N-CA	-5.69	1.38	1.46
1	A	1687	SER	C-N	-5.65	1.25	1.33
1	B	1687	SER	C-N	-5.65	1.25	1.33
1	D	1687	SER	C-N	-5.65	1.25	1.33
1	C	1687	SER	C-N	-5.62	1.25	1.33
1	A	1626	TRP	CA-C	5.58	1.60	1.52
1	B	1626	TRP	CA-C	5.58	1.60	1.52
1	C	1626	TRP	CA-C	5.58	1.60	1.52
1	D	1626	TRP	CA-C	5.58	1.60	1.52
1	C	674	PHE	N-CA	-5.57	1.40	1.46
1	B	674	PHE	N-CA	-5.57	1.40	1.46
1	A	674	PHE	N-CA	-5.56	1.40	1.46
1	D	674	PHE	N-CA	-5.56	1.40	1.46
1	A	777	PHE	CA-C	-5.54	1.46	1.53
1	B	777	PHE	CA-C	-5.54	1.46	1.53
1	C	777	PHE	CA-C	-5.54	1.46	1.53
1	D	777	PHE	CA-C	-5.54	1.46	1.53
1	A	645	ARG	N-CA	-5.54	1.42	1.46
1	B	645	ARG	N-CA	-5.54	1.42	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	645	ARG	N-CA	-5.54	1.42	1.46
1	D	645	ARG	N-CA	-5.54	1.42	1.46
1	A	4173	TYR	C-O	5.53	1.30	1.24
1	B	4173	TYR	C-O	5.53	1.30	1.24
1	C	4173	TYR	C-O	5.53	1.30	1.24
1	D	4173	TYR	C-O	5.53	1.30	1.24
1	A	768	PHE	CA-C	-5.51	1.45	1.52
1	C	768	PHE	CA-C	-5.51	1.45	1.52
1	D	748	LEU	CA-C	-5.51	1.45	1.52
1	D	768	PHE	CA-C	-5.51	1.45	1.52
1	B	768	PHE	CA-C	-5.49	1.45	1.52
1	A	744	VAL	CA-C	-5.46	1.46	1.52
1	C	744	VAL	CA-C	-5.46	1.46	1.52
1	D	744	VAL	CA-C	-5.46	1.46	1.52
1	A	748	LEU	CA-C	-5.46	1.45	1.52
1	A	5019	TRP	N-CA	-5.41	1.39	1.46
1	B	5019	TRP	N-CA	-5.41	1.39	1.46
1	C	5019	TRP	N-CA	-5.41	1.39	1.46
1	D	5019	TRP	N-CA	-5.41	1.39	1.46
1	B	748	LEU	CA-C	-5.41	1.45	1.52
1	C	748	LEU	CA-C	-5.41	1.45	1.52
1	B	744	VAL	CA-C	-5.40	1.46	1.52
1	D	484	LEU	C-N	5.39	1.41	1.33
1	A	484	LEU	C-N	5.36	1.41	1.33
1	B	484	LEU	C-N	5.36	1.41	1.33
1	C	484	LEU	C-N	5.36	1.41	1.33
1	B	5018	CYS	C-N	-5.35	1.26	1.33
1	D	735	GLN	CA-C	-5.35	1.46	1.53
1	A	735	GLN	CA-C	-5.33	1.46	1.53
1	B	735	GLN	CA-C	-5.33	1.46	1.53
1	C	735	GLN	CA-C	-5.33	1.46	1.53
1	A	2745	VAL	CA-C	-5.31	1.45	1.52
1	B	2745	VAL	CA-C	-5.31	1.45	1.52
1	C	2745	VAL	CA-C	-5.31	1.45	1.52
1	D	2745	VAL	CA-C	-5.31	1.45	1.52
1	A	2775	TRP	CA-C	-5.29	1.46	1.53
1	B	2775	TRP	CA-C	-5.29	1.46	1.53
1	C	2775	TRP	CA-C	-5.29	1.46	1.53
1	D	2775	TRP	CA-C	-5.29	1.46	1.53
1	A	5018	CYS	C-N	-5.28	1.26	1.33
1	C	5018	CYS	C-N	-5.28	1.26	1.33
1	D	5018	CYS	C-N	-5.28	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	5019	TRP	CD2-CE2	-5.28	1.32	1.41
1	B	5019	TRP	CD2-CE2	-5.28	1.32	1.41
1	C	5019	TRP	CD2-CE2	-5.28	1.32	1.41
1	D	5019	TRP	CD2-CE2	-5.28	1.32	1.41
1	A	4131	ARG	CA-C	-5.26	1.46	1.52
1	B	4131	ARG	CA-C	-5.26	1.46	1.52
1	C	4131	ARG	CA-C	-5.26	1.46	1.52
1	D	4131	ARG	CA-C	-5.26	1.46	1.52
1	C	1556	PRO	CA-C	5.26	1.59	1.52
1	A	790	ARG	CA-C	-5.25	1.46	1.52
1	C	790	ARG	CA-C	-5.25	1.46	1.52
1	D	790	ARG	CA-C	-5.25	1.46	1.52
1	A	672	VAL	CA-C	-5.22	1.47	1.52
1	B	672	VAL	CA-C	-5.22	1.47	1.52
1	C	672	VAL	CA-C	-5.22	1.47	1.52
1	D	672	VAL	CA-C	-5.22	1.47	1.52
1	A	1556	PRO	CA-C	5.21	1.59	1.52
1	B	1556	PRO	CA-C	5.21	1.59	1.52
1	D	1556	PRO	CA-C	5.21	1.59	1.52
1	B	2858	GLN	N-CA	-5.19	1.40	1.46
1	B	790	ARG	CA-C	-5.19	1.46	1.52
1	A	2858	GLN	N-CA	-5.18	1.40	1.46
1	C	2858	GLN	N-CA	-5.18	1.40	1.46
1	D	2858	GLN	N-CA	-5.18	1.40	1.46
1	B	771	PHE	CA-C	-5.17	1.45	1.52
1	D	771	PHE	CA-C	-5.17	1.45	1.52
1	A	771	PHE	CA-C	-5.17	1.45	1.52
1	A	762	CYS	CA-C	-5.15	1.46	1.52
1	C	762	CYS	CA-C	-5.15	1.46	1.52
1	D	762	CYS	CA-C	-5.15	1.46	1.52
1	C	771	PHE	CA-C	-5.15	1.45	1.52
1	A	1206	GLN	CA-C	5.14	1.59	1.52
1	A	5019	TRP	CG-CD1	-5.14	1.24	1.36
1	B	5019	TRP	CG-CD1	-5.14	1.24	1.36
1	C	1206	GLN	CA-C	5.14	1.59	1.52
1	D	1206	GLN	CA-C	5.14	1.59	1.52
1	D	5019	TRP	CG-CD1	-5.14	1.24	1.36
1	D	2857	PRO	CA-C	-5.13	1.47	1.52
1	A	2857	PRO	CA-C	-5.13	1.47	1.52
1	B	2857	PRO	CA-C	-5.13	1.47	1.52
1	B	762	CYS	CA-C	-5.11	1.46	1.52
1	C	5019	TRP	CG-CD1	-5.11	1.24	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	764	VAL	N-CA	-5.11	1.40	1.46
1	B	1206	GLN	CA-C	5.10	1.59	1.52
1	C	2857	PRO	CA-C	-5.10	1.47	1.52
1	A	764	VAL	N-CA	-5.08	1.40	1.46
1	B	764	VAL	N-CA	-5.08	1.40	1.46
1	D	764	VAL	N-CA	-5.08	1.40	1.46
1	A	545	ASP	C-O	5.08	1.30	1.24
1	C	545	ASP	C-O	5.08	1.30	1.24
1	D	545	ASP	C-O	5.08	1.30	1.24
1	A	689	THR	CA-C	-5.05	1.46	1.52
1	C	689	THR	CA-C	-5.05	1.46	1.52
1	D	689	THR	CA-C	-5.05	1.46	1.52
1	A	677	ALA	CA-C	-5.05	1.47	1.53
1	B	677	ALA	CA-C	-5.05	1.47	1.53
1	C	677	ALA	CA-C	-5.05	1.47	1.53
1	B	689	THR	CA-C	-5.04	1.46	1.52
1	A	3837	GLN	CA-C	5.04	1.59	1.52
1	B	545	ASP	C-O	5.04	1.29	1.24
1	B	3837	GLN	CA-C	5.04	1.59	1.52
1	C	3837	GLN	CA-C	5.04	1.59	1.52
1	D	3837	GLN	CA-C	5.04	1.59	1.52
1	A	650	VAL	N-CA	-5.01	1.40	1.46
1	B	650	VAL	N-CA	-5.01	1.40	1.46
1	C	650	VAL	N-CA	-5.01	1.40	1.46
1	D	650	VAL	N-CA	-5.01	1.40	1.46

All (2533) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2047	GLU	N-CA-CB	-40.42	41.78	110.50
1	C	2047	GLU	N-CA-CB	-40.42	41.78	110.50
1	D	2047	GLU	N-CA-CB	-40.42	41.78	110.50
1	B	2047	GLU	N-CA-CB	-40.41	41.80	110.50
1	B	1750	PRO	CA-C-N	-39.48	91.22	121.61
1	B	1750	PRO	C-N-CA	-39.48	91.22	121.61
1	A	1750	PRO	CA-C-N	-39.44	91.24	121.61
1	A	1750	PRO	C-N-CA	-39.44	91.24	121.61
1	C	1750	PRO	CA-C-N	-39.44	91.24	121.61
1	C	1750	PRO	C-N-CA	-39.44	91.24	121.61
1	D	1750	PRO	CA-C-N	-39.44	91.24	121.61
1	D	1750	PRO	C-N-CA	-39.44	91.24	121.61
1	A	4168	GLU	N-CA-CB	-32.45	55.64	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	4168	GLU	N-CA-CB	-32.45	55.64	110.49
1	C	4168	GLU	N-CA-CB	-32.45	55.64	110.49
1	D	4168	GLU	N-CA-CB	-32.45	55.64	110.49
1	B	631	LEU	O-C-N	31.78	164.86	122.59
1	C	631	LEU	O-C-N	31.78	164.86	122.59
1	A	631	LEU	O-C-N	31.77	164.84	122.59
1	D	631	LEU	O-C-N	31.77	164.84	122.59
1	A	4684	ASP	N-CA-CB	-21.27	78.59	111.56
1	B	4684	ASP	N-CA-CB	-21.27	78.59	111.56
1	C	4684	ASP	N-CA-CB	-21.27	78.59	111.56
1	D	4684	ASP	N-CA-CB	-21.27	78.59	111.56
1	C	252	VAL	N-CA-C	20.84	131.88	110.62
1	A	252	VAL	N-CA-C	20.84	131.87	110.62
1	B	252	VAL	N-CA-C	20.84	131.87	110.62
1	D	252	VAL	N-CA-C	20.84	131.87	110.62
1	B	1612	PHE	N-CA-C	19.59	132.63	111.28
1	A	1612	PHE	N-CA-C	19.55	132.59	111.28
1	D	1612	PHE	N-CA-C	19.55	132.59	111.28
1	A	1850	VAL	CB-CA-C	-19.53	85.78	112.14
1	C	1850	VAL	CB-CA-C	-19.53	85.78	112.14
1	D	1850	VAL	CB-CA-C	-19.53	85.78	112.14
1	C	1612	PHE	N-CA-C	19.52	132.56	111.28
1	B	1850	VAL	CB-CA-C	-19.50	85.82	112.14
1	A	4179	GLY	N-CA-C	-19.43	80.94	110.87
1	B	4179	GLY	N-CA-C	-19.43	80.94	110.87
1	D	4179	GLY	N-CA-C	-19.43	80.94	110.87
1	C	4179	GLY	N-CA-C	-19.43	80.95	110.87
1	B	669	ASP	N-CA-C	19.14	132.15	111.28
1	A	669	ASP	N-CA-C	19.12	132.12	111.28
1	C	669	ASP	N-CA-C	19.12	132.12	111.28
1	D	669	ASP	N-CA-C	19.12	132.12	111.28
1	D	3217	SER	N-CA-CB	18.83	142.52	110.50
1	A	3217	SER	N-CA-CB	18.82	142.50	110.50
1	B	3217	SER	N-CA-CB	18.80	142.46	110.50
1	C	3217	SER	N-CA-CB	18.80	142.46	110.50
1	B	438	ILE	N-CA-C	18.35	128.03	110.42
1	C	438	ILE	N-CA-C	18.35	128.03	110.42
1	D	438	ILE	N-CA-C	18.32	128.00	110.42
1	A	438	ILE	N-CA-C	18.31	128.00	110.42
1	A	5022	PHE	N-CA-C	-18.19	86.54	109.64
1	B	5022	PHE	N-CA-C	-18.19	86.54	109.64
1	D	5022	PHE	N-CA-C	-18.19	86.54	109.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	5022	PHE	N-CA-C	-18.17	86.56	109.64
1	B	4691	GLN	N-CA-CB	17.86	142.16	110.37
1	A	4691	GLN	N-CA-CB	17.86	142.16	110.37
1	D	4691	GLN	N-CA-CB	17.86	142.16	110.37
1	C	4691	GLN	N-CA-CB	17.84	142.12	110.37
1	A	4859	PHE	N-CA-CB	-17.80	85.17	111.51
1	B	4859	PHE	N-CA-CB	-17.80	85.17	111.51
1	D	4859	PHE	N-CA-CB	-17.80	85.17	111.51
1	C	4859	PHE	N-CA-CB	-17.79	85.18	111.51
1	A	1538	THR	CB-CA-C	-17.14	82.85	110.79
1	B	1538	THR	CB-CA-C	-17.14	82.85	110.79
1	C	1538	THR	CB-CA-C	-17.14	82.85	110.79
1	D	1538	THR	CB-CA-C	-17.14	82.85	110.79
1	A	1538	THR	N-CA-CB	17.03	138.74	110.47
1	B	1538	THR	N-CA-CB	17.03	138.74	110.47
1	C	1538	THR	N-CA-CB	17.03	138.74	110.47
1	D	1538	THR	N-CA-CB	17.03	138.74	110.47
1	B	2047	GLU	CB-CA-C	-16.96	77.87	110.10
1	A	2047	GLU	CB-CA-C	-16.95	77.90	110.10
1	C	2047	GLU	CB-CA-C	-16.95	77.90	110.10
1	D	2047	GLU	CB-CA-C	-16.95	77.90	110.10
1	A	1200	GLY	N-CA-C	-16.81	86.81	111.19
1	B	1200	GLY	N-CA-C	-16.81	86.81	111.19
1	C	1200	GLY	N-CA-C	-16.81	86.82	111.19
1	A	4092	ASP	N-CA-C	-16.81	75.00	110.80
1	C	4092	ASP	N-CA-C	-16.81	75.00	110.80
1	D	4092	ASP	N-CA-C	-16.81	75.00	110.80
1	D	1200	GLY	N-CA-C	-16.79	86.84	111.19
1	A	4682	GLU	CB-CA-C	-16.79	82.92	110.79
1	B	4092	ASP	N-CA-C	-16.79	75.04	110.80
1	C	4682	GLU	CB-CA-C	-16.79	82.92	110.79
1	D	4682	GLU	CB-CA-C	-16.79	82.92	110.79
1	B	4682	GLU	CB-CA-C	-16.77	82.95	110.79
1	A	3773	ARG	CB-CA-C	16.42	143.66	110.17
1	B	3773	ARG	CB-CA-C	16.42	143.66	110.17
1	C	3773	ARG	CB-CA-C	16.42	143.66	110.17
1	D	3773	ARG	CB-CA-C	16.42	143.66	110.17
1	B	1537	ASN	N-CA-CB	-16.07	83.33	110.49
1	A	1537	ASN	N-CA-CB	-16.06	83.34	110.49
1	C	1537	ASN	N-CA-CB	-16.06	83.34	110.49
1	D	1537	ASN	N-CA-CB	-16.06	83.34	110.49
1	A	4131	ARG	N-CA-C	-15.80	83.63	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	4131	ARG	N-CA-C	-15.80	83.63	109.07
1	C	4131	ARG	N-CA-C	-15.80	83.63	109.07
1	D	4131	ARG	N-CA-C	-15.80	83.63	109.07
1	D	1451	GLY	N-CA-C	-15.42	89.62	110.74
1	A	1451	GLY	N-CA-C	-15.41	89.63	110.74
1	B	1451	GLY	N-CA-C	-15.40	89.64	110.74
1	C	1451	GLY	N-CA-C	-15.40	89.64	110.74
1	B	765	GLN	CA-C-N	15.37	135.98	120.31
1	B	765	GLN	C-N-CA	15.37	135.98	120.31
1	D	765	GLN	CA-C-N	15.34	135.96	120.31
1	D	765	GLN	C-N-CA	15.34	135.96	120.31
1	A	765	GLN	CA-C-N	15.33	135.95	120.31
1	A	765	GLN	C-N-CA	15.33	135.95	120.31
1	C	765	GLN	CA-C-N	15.29	135.90	120.31
1	C	765	GLN	C-N-CA	15.29	135.90	120.31
1	A	3217	SER	CB-CA-C	-15.28	81.07	110.10
1	D	3217	SER	CB-CA-C	-15.28	81.07	110.10
1	B	3217	SER	CB-CA-C	-15.28	81.07	110.10
1	C	3217	SER	CB-CA-C	-15.28	81.07	110.10
1	A	4684	ASP	CB-CA-C	15.18	138.86	110.62
1	B	4684	ASP	CB-CA-C	15.18	138.86	110.62
1	D	4684	ASP	CB-CA-C	15.18	138.86	110.62
1	C	4684	ASP	CB-CA-C	15.16	138.83	110.62
1	A	1539	PHE	N-CA-C	15.15	127.51	111.14
1	B	1539	PHE	N-CA-C	15.15	127.51	111.14
1	C	1539	PHE	N-CA-C	15.15	127.51	111.14
1	D	1539	PHE	N-CA-C	15.15	127.51	111.14
1	A	484	LEU	CA-C-N	14.93	140.74	120.44
1	A	484	LEU	C-N-CA	14.93	140.74	120.44
1	B	484	LEU	CA-C-N	14.93	140.74	120.44
1	B	484	LEU	C-N-CA	14.93	140.74	120.44
1	C	484	LEU	CA-C-N	14.93	140.74	120.44
1	C	484	LEU	C-N-CA	14.93	140.74	120.44
1	D	484	LEU	CA-C-N	14.90	140.71	120.44
1	D	484	LEU	C-N-CA	14.90	140.71	120.44
1	A	2202	GLY	N-CA-C	-14.68	94.18	112.68
1	C	2202	GLY	N-CA-C	-14.68	94.18	112.68
1	D	2202	GLY	N-CA-C	-14.68	94.18	112.68
1	B	2202	GLY	N-CA-C	-14.66	94.21	112.68
1	C	831	ARG	CA-C-N	14.59	147.96	121.70
1	C	831	ARG	C-N-CA	14.59	147.96	121.70
1	A	831	ARG	CA-C-N	14.57	147.93	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	831	ARG	C-N-CA	14.57	147.93	121.70
1	D	831	ARG	CA-C-N	14.57	147.93	121.70
1	D	831	ARG	C-N-CA	14.57	147.93	121.70
1	B	831	ARG	CA-C-N	14.56	147.91	121.70
1	B	831	ARG	C-N-CA	14.56	147.91	121.70
1	A	1657	LEU	CB-CA-C	13.98	134.61	110.85
1	B	1657	LEU	CB-CA-C	13.98	134.61	110.85
1	D	1657	LEU	CB-CA-C	13.98	134.61	110.85
1	C	1657	LEU	CB-CA-C	13.97	134.60	110.85
1	B	261	ARG	N-CA-C	-13.92	89.58	108.38
1	D	261	ARG	N-CA-C	-13.92	89.59	108.38
1	A	261	ARG	N-CA-C	-13.91	89.60	108.38
1	C	261	ARG	N-CA-C	-13.91	89.60	108.38
1	A	1850	VAL	N-CA-CB	-13.77	91.81	110.54
1	B	1850	VAL	N-CA-CB	-13.77	91.81	110.54
1	C	1850	VAL	N-CA-CB	-13.77	91.81	110.54
1	D	1850	VAL	N-CA-CB	-13.77	91.81	110.54
1	B	336	PRO	N-CA-CB	13.73	110.36	103.22
1	A	336	PRO	N-CA-CB	13.71	110.35	103.22
1	D	336	PRO	N-CA-CB	13.69	110.34	103.22
1	C	336	PRO	N-CA-CB	13.65	110.32	103.22
1	A	3090	ALA	N-CA-CB	-13.62	89.97	110.40
1	C	3090	ALA	N-CA-CB	-13.62	89.97	110.40
1	D	3090	ALA	N-CA-CB	-13.62	89.97	110.40
1	B	3090	ALA	N-CA-CB	-13.62	89.97	110.40
1	A	1620	ALA	N-CA-C	-13.49	85.96	108.76
1	B	1620	ALA	N-CA-C	-13.49	85.96	108.76
1	D	1620	ALA	N-CA-C	-13.49	85.96	108.76
1	C	1620	ALA	N-CA-C	-13.48	85.97	108.76
1	A	1745	ILE	N-CA-CB	-13.21	89.43	111.23
1	B	1745	ILE	N-CA-CB	-13.21	89.43	111.23
1	C	1745	ILE	N-CA-CB	-13.21	89.43	111.23
1	D	1745	ILE	N-CA-CB	-13.21	89.43	111.23
1	A	831	ARG	N-CA-C	-13.09	89.51	109.41
1	B	831	ARG	N-CA-C	-13.09	89.51	109.41
1	D	831	ARG	N-CA-C	-13.09	89.51	109.41
1	C	831	ARG	N-CA-C	-13.08	89.53	109.41
1	B	2452	ARG	N-CA-C	12.99	125.17	111.14
1	A	2452	ARG	N-CA-C	12.96	125.14	111.14
1	C	2452	ARG	N-CA-C	12.96	125.14	111.14
1	D	2452	ARG	N-CA-C	12.96	125.14	111.14
1	C	768	PHE	N-CA-C	12.83	128.59	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	768	PHE	N-CA-C	12.81	128.57	110.50
1	D	768	PHE	N-CA-C	12.81	128.57	110.50
1	B	768	PHE	N-CA-C	12.80	128.54	110.50
1	A	454	PRO	N-CA-CB	12.78	110.35	103.19
1	B	454	PRO	N-CA-CB	12.78	110.35	103.19
1	C	454	PRO	N-CA-CB	12.78	110.35	103.19
1	D	454	PRO	N-CA-CB	12.78	110.35	103.19
1	D	393	CYS	N-CA-C	-12.63	89.47	108.79
1	B	5020	ASP	CA-CB-CG	-12.62	99.98	112.60
1	A	393	CYS	N-CA-C	-12.62	89.48	108.79
1	B	393	CYS	N-CA-C	-12.62	89.48	108.79
1	C	393	CYS	N-CA-C	-12.62	89.48	108.79
1	A	5020	ASP	CA-CB-CG	-12.60	100.00	112.60
1	C	5020	ASP	CA-CB-CG	-12.60	100.00	112.60
1	D	5020	ASP	CA-CB-CG	-12.59	100.01	112.60
1	B	4557	ARG	N-CA-CB	-12.43	91.42	110.06
1	B	1687	SER	O-C-N	-12.40	108.37	123.01
1	A	4557	ARG	N-CA-CB	-12.40	91.46	110.06
1	C	4557	ARG	N-CA-CB	-12.40	91.46	110.06
1	D	4557	ARG	N-CA-CB	-12.40	91.46	110.06
1	A	1687	SER	O-C-N	-12.38	108.41	123.01
1	D	1687	SER	O-C-N	-12.38	108.41	123.01
1	C	1687	SER	O-C-N	-12.36	108.42	123.01
1	C	394	GLN	N-CA-C	-12.32	88.81	108.90
1	A	394	GLN	N-CA-C	-12.31	88.83	108.90
1	D	394	GLN	N-CA-C	-12.31	88.83	108.90
1	B	394	GLN	N-CA-C	-12.31	88.83	108.90
1	B	4091	LYS	CA-C-N	12.21	144.86	121.54
1	B	4091	LYS	C-N-CA	12.21	144.86	121.54
1	A	4091	LYS	CA-C-N	12.19	144.82	121.54
1	A	4091	LYS	C-N-CA	12.19	144.82	121.54
1	C	4091	LYS	CA-C-N	12.19	144.82	121.54
1	C	4091	LYS	C-N-CA	12.19	144.82	121.54
1	D	4091	LYS	CA-C-N	12.19	144.82	121.54
1	D	4091	LYS	C-N-CA	12.19	144.82	121.54
1	A	1619	ARG	N-CA-C	-12.15	90.19	108.79
1	D	1619	ARG	N-CA-C	-12.15	90.19	108.79
1	B	1619	ARG	N-CA-C	-12.13	90.23	108.79
1	C	1619	ARG	N-CA-C	-12.13	90.23	108.79
1	A	3090	ALA	CB-CA-C	12.05	128.57	110.50
1	B	3090	ALA	CB-CA-C	12.05	128.57	110.50
1	D	3090	ALA	CB-CA-C	12.05	128.57	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	3090	ALA	CB-CA-C	12.04	128.56	110.50
1	A	4197	ILE	N-CA-C	11.87	124.96	108.93
1	B	4197	ILE	N-CA-C	11.87	124.96	108.93
1	C	4197	ILE	N-CA-C	11.87	124.96	108.93
1	D	4197	ILE	N-CA-C	11.87	124.96	108.93
1	A	148	TRP	N-CA-C	-11.86	87.14	108.48
1	B	148	TRP	N-CA-C	-11.86	87.14	108.48
1	C	148	TRP	N-CA-C	-11.86	87.14	108.48
1	D	148	TRP	N-CA-C	-11.86	87.14	108.48
1	A	752	VAL	N-CA-C	-11.80	94.13	108.05
1	D	752	VAL	N-CA-C	-11.80	94.13	108.05
1	C	752	VAL	N-CA-C	-11.78	94.15	108.05
1	B	752	VAL	N-CA-C	-11.77	94.16	108.05
1	A	4179	GLY	CA-C-O	-11.72	110.51	121.06
1	B	4179	GLY	CA-C-O	-11.72	110.51	121.06
1	D	4179	GLY	CA-C-O	-11.72	110.51	121.06
1	C	262	LEU	N-CA-C	-11.70	85.88	110.80
1	A	262	LEU	N-CA-C	-11.69	85.90	110.80
1	B	262	LEU	N-CA-C	-11.69	85.90	110.80
1	C	4179	GLY	CA-C-O	-11.68	110.55	121.06
1	D	262	LEU	N-CA-C	-11.68	85.91	110.80
1	D	918	ARG	N-CA-C	11.67	128.18	112.30
1	A	918	ARG	N-CA-C	11.66	128.16	112.30
1	B	918	ARG	N-CA-C	11.66	128.16	112.30
1	C	918	ARG	N-CA-C	11.66	128.16	112.30
1	A	1438	ARG	N-CA-C	-11.66	91.59	108.96
1	C	1438	ARG	N-CA-C	-11.66	91.59	108.96
1	B	1438	ARG	N-CA-C	-11.64	91.61	108.96
1	D	1438	ARG	N-CA-C	-11.64	91.61	108.96
1	A	3527	PRO	CB-CA-C	-11.52	88.22	110.10
1	B	3527	PRO	CB-CA-C	-11.52	88.22	110.10
1	C	3527	PRO	CB-CA-C	-11.52	88.22	110.10
1	D	3527	PRO	CB-CA-C	-11.49	88.28	110.10
1	A	1749	PRO	CB-CA-C	-11.47	96.93	110.92
1	B	1749	PRO	CB-CA-C	-11.47	96.93	110.92
1	C	1749	PRO	CB-CA-C	-11.47	96.93	110.92
1	D	1749	PRO	CB-CA-C	-11.47	96.93	110.92
1	B	1746	THR	N-CA-CB	-11.37	91.27	110.49
1	A	1746	THR	N-CA-CB	-11.36	91.30	110.49
1	C	1746	THR	N-CA-CB	-11.36	91.30	110.49
1	D	1746	THR	N-CA-CB	-11.34	91.32	110.49
1	D	2145	SER	CA-C-N	11.34	134.01	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2145	SER	C-N-CA	11.34	134.01	119.84
1	A	2145	SER	CA-C-N	11.32	133.99	119.84
1	A	2145	SER	C-N-CA	11.32	133.99	119.84
1	B	2145	SER	CA-C-N	11.32	133.99	119.84
1	B	2145	SER	C-N-CA	11.32	133.99	119.84
1	C	2145	SER	CA-C-N	11.31	133.98	119.84
1	C	2145	SER	C-N-CA	11.31	133.98	119.84
1	A	3837	GLN	CA-C-O	11.05	134.62	121.36
1	B	3837	GLN	CA-C-O	11.05	134.62	121.36
1	C	3837	GLN	CA-C-O	11.05	134.62	121.36
1	D	3837	GLN	CA-C-O	11.05	134.62	121.36
1	D	2923	ALA	N-CA-C	11.03	123.06	111.14
1	A	2923	ALA	N-CA-C	11.00	123.03	111.14
1	C	2923	ALA	N-CA-C	11.00	123.03	111.14
1	B	2923	ALA	N-CA-C	10.97	122.99	111.14
1	A	166	GLY	N-CA-C	10.94	130.75	115.00
1	B	166	GLY	N-CA-C	10.94	130.75	115.00
1	B	543	ASN	CA-C-N	10.94	134.94	120.28
1	B	543	ASN	C-N-CA	10.94	134.94	120.28
1	C	166	GLY	N-CA-C	10.94	130.75	115.00
1	C	543	ASN	CA-C-N	10.94	134.94	120.28
1	C	543	ASN	C-N-CA	10.94	134.94	120.28
1	D	166	GLY	N-CA-C	10.94	130.75	115.00
1	D	543	ASN	CA-C-N	10.94	134.94	120.28
1	D	543	ASN	C-N-CA	10.94	134.94	120.28
1	A	543	ASN	CA-C-N	10.92	134.91	120.28
1	A	543	ASN	C-N-CA	10.92	134.91	120.28
1	A	4555	LEU	N-CA-CB	-10.88	92.10	110.49
1	B	668	VAL	CA-C-N	10.88	134.86	120.28
1	B	668	VAL	C-N-CA	10.88	134.86	120.28
1	B	4555	LEU	N-CA-CB	-10.88	92.10	110.49
1	C	4555	LEU	N-CA-CB	-10.88	92.10	110.49
1	D	4555	LEU	N-CA-CB	-10.88	92.10	110.49
1	A	668	VAL	CA-C-N	10.88	134.85	120.28
1	A	668	VAL	C-N-CA	10.88	134.85	120.28
1	D	668	VAL	CA-C-N	10.87	134.84	120.28
1	D	668	VAL	C-N-CA	10.87	134.84	120.28
1	C	668	VAL	CA-C-N	10.85	134.81	120.28
1	C	668	VAL	C-N-CA	10.85	134.81	120.28
1	A	2855	TYR	N-CA-C	-10.78	90.36	108.26
1	B	2855	TYR	N-CA-C	-10.78	90.36	108.26
1	C	2855	TYR	N-CA-C	-10.78	90.36	108.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2855	TYR	N-CA-C	-10.78	90.36	108.26
1	A	4817	ALA	N-CA-C	10.71	122.96	111.28
1	C	4817	ALA	N-CA-C	10.71	122.96	111.28
1	D	4817	ALA	N-CA-C	10.71	122.96	111.28
1	B	4817	ALA	N-CA-C	10.71	122.95	111.28
1	B	2198	MET	N-CA-C	10.69	125.72	110.23
1	D	2198	MET	N-CA-C	10.67	125.70	110.23
1	A	2198	MET	N-CA-C	10.66	125.69	110.23
1	C	2198	MET	N-CA-C	10.66	125.69	110.23
1	A	72	SER	N-CA-C	-10.54	93.05	109.07
1	B	72	SER	N-CA-C	-10.54	93.05	109.07
1	C	72	SER	N-CA-C	-10.54	93.05	109.07
1	D	72	SER	N-CA-C	-10.54	93.05	109.07
1	A	1201	HIS	N-CA-C	-10.52	92.93	109.23
1	C	1201	HIS	N-CA-C	-10.52	92.93	109.23
1	D	1201	HIS	N-CA-C	-10.51	92.94	109.23
1	B	1201	HIS	N-CA-C	-10.50	92.95	109.23
1	A	1750	PRO	CB-CA-C	10.47	126.72	111.85
1	B	1750	PRO	CB-CA-C	10.47	126.72	111.85
1	D	1750	PRO	CB-CA-C	10.47	126.72	111.85
1	C	1750	PRO	CB-CA-C	10.46	126.70	111.85
1	B	1210	SER	N-CA-C	-10.45	94.53	110.10
1	A	1210	SER	N-CA-C	-10.42	94.57	110.10
1	D	1210	SER	N-CA-C	-10.42	94.57	110.10
1	C	1210	SER	N-CA-C	-10.42	94.57	110.10
1	B	1437	VAL	N-CA-C	-10.37	93.03	107.75
1	D	1437	VAL	N-CA-C	-10.37	93.03	107.75
1	A	1437	VAL	N-CA-C	-10.36	93.04	107.75
1	C	1437	VAL	N-CA-C	-10.35	93.05	107.75
1	B	1205	GLY	N-CA-C	10.29	125.41	112.14
1	C	1205	GLY	N-CA-C	10.28	125.40	112.14
1	A	1205	GLY	N-CA-C	10.27	125.38	112.14
1	D	1205	GLY	N-CA-C	10.27	125.38	112.14
1	D	406	SER	N-CA-C	10.25	122.21	111.14
1	A	406	SER	N-CA-C	10.23	122.19	111.14
1	C	406	SER	N-CA-C	10.23	122.19	111.14
1	A	395	GLN	N-CA-C	10.22	123.46	111.71
1	B	395	GLN	N-CA-C	10.22	123.46	111.71
1	C	395	GLN	N-CA-C	10.22	123.46	111.71
1	D	395	GLN	N-CA-C	10.22	123.46	111.71
1	D	1546	THR	N-CA-C	-10.21	91.51	108.76
1	B	406	SER	N-CA-C	10.19	122.15	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1546	THR	N-CA-C	-10.19	91.54	108.76
1	B	1546	THR	N-CA-C	-10.19	91.54	108.76
1	C	1546	THR	N-CA-C	-10.19	91.54	108.76
1	C	4139	ILE	N-CA-C	10.15	120.07	110.53
1	B	4894	GLY	CA-C-N	10.12	136.50	120.00
1	B	4894	GLY	C-N-CA	10.12	136.50	120.00
1	D	4894	GLY	CA-C-N	10.12	136.50	120.00
1	D	4894	GLY	C-N-CA	10.12	136.50	120.00
1	A	4139	ILE	N-CA-C	10.11	120.03	110.53
1	B	4139	ILE	N-CA-C	10.11	120.03	110.53
1	D	4139	ILE	N-CA-C	10.11	120.03	110.53
1	A	4894	GLY	CA-C-N	10.11	136.47	120.00
1	A	4894	GLY	C-N-CA	10.11	136.47	120.00
1	C	4894	GLY	CA-C-N	10.11	136.47	120.00
1	C	4894	GLY	C-N-CA	10.11	136.47	120.00
1	B	531	ARG	N-CA-C	10.09	122.28	111.28
1	A	531	ARG	N-CA-C	10.08	122.27	111.28
1	C	531	ARG	N-CA-C	10.08	122.27	111.28
1	D	531	ARG	N-CA-C	10.05	122.24	111.28
1	A	1450	VAL	N-CA-C	-10.00	94.16	108.65
1	B	1450	VAL	N-CA-C	-10.00	94.16	108.65
1	D	1450	VAL	N-CA-C	-10.00	94.16	108.65
1	C	1450	VAL	N-CA-C	-9.98	94.18	108.65
1	A	1611	HIS	CA-C-N	9.92	133.57	120.28
1	A	1611	HIS	C-N-CA	9.92	133.57	120.28
1	C	1611	HIS	CA-C-N	9.92	133.57	120.28
1	C	1611	HIS	C-N-CA	9.92	133.57	120.28
1	D	1611	HIS	CA-C-N	9.92	133.57	120.28
1	D	1611	HIS	C-N-CA	9.92	133.57	120.28
1	B	1611	HIS	CA-C-N	9.90	133.54	120.28
1	B	1611	HIS	C-N-CA	9.90	133.54	120.28
1	A	1282	SER	N-CA-C	-9.87	94.62	108.54
1	B	1282	SER	N-CA-C	-9.87	94.62	108.54
1	C	1282	SER	N-CA-C	-9.87	94.62	108.54
1	D	2897	LYS	N-CA-C	9.87	125.13	113.18
1	A	2897	LYS	N-CA-C	9.85	125.10	113.18
1	A	3062	PRO	N-CA-C	-9.85	92.18	112.47
1	B	3062	PRO	N-CA-C	-9.85	92.18	112.47
1	C	2897	LYS	N-CA-C	9.85	125.10	113.18
1	C	3062	PRO	N-CA-C	-9.85	92.18	112.47
1	D	3062	PRO	N-CA-C	-9.85	92.18	112.47
1	A	1439	VAL	N-CA-C	-9.85	88.86	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1439	VAL	N-CA-C	-9.85	88.86	109.34
1	C	1439	VAL	N-CA-C	-9.85	88.86	109.34
1	D	1439	VAL	N-CA-C	-9.85	88.86	109.34
1	B	2897	LYS	N-CA-C	9.84	125.08	113.18
1	C	175	SER	N-CA-C	-9.74	96.20	109.54
1	A	175	SER	N-CA-C	-9.73	96.21	109.54
1	B	175	SER	N-CA-C	-9.73	96.21	109.54
1	D	175	SER	N-CA-C	-9.73	96.21	109.54
1	D	1197	GLY	N-CA-C	9.73	128.82	115.30
1	C	1197	GLY	N-CA-C	9.72	128.82	115.30
1	D	112	ALA	N-CA-C	9.72	131.50	110.80
1	B	112	ALA	N-CA-C	9.71	131.48	110.80
1	A	112	ALA	N-CA-C	9.71	131.48	110.80
1	A	1197	GLY	N-CA-C	9.71	128.79	115.30
1	C	112	ALA	N-CA-C	9.71	131.48	110.80
1	B	1197	GLY	N-CA-C	9.71	128.79	115.30
1	C	2656	CYS	N-CA-C	9.68	124.82	112.92
1	A	2656	CYS	N-CA-C	9.67	124.81	112.92
1	B	2656	CYS	N-CA-C	9.67	124.81	112.92
1	D	2656	CYS	N-CA-C	9.67	124.81	112.92
1	D	1823	GLY	N-CA-C	-9.65	96.96	112.31
1	A	1823	GLY	N-CA-C	-9.63	96.99	112.31
1	B	1823	GLY	N-CA-C	-9.63	96.99	112.31
1	C	1823	GLY	N-CA-C	-9.63	97.00	112.31
1	A	3773	ARG	N-CA-CB	-9.63	93.54	110.39
1	C	3773	ARG	N-CA-CB	-9.63	93.54	110.39
1	D	3773	ARG	N-CA-CB	-9.63	93.54	110.39
1	B	3773	ARG	N-CA-CB	-9.62	93.56	110.39
1	A	4139	ILE	CA-C-N	9.56	130.74	120.03
1	A	4139	ILE	C-N-CA	9.56	130.74	120.03
1	B	4139	ILE	CA-C-N	9.56	130.74	120.03
1	B	4139	ILE	C-N-CA	9.56	130.74	120.03
1	C	4139	ILE	CA-C-N	9.56	130.74	120.03
1	C	4139	ILE	C-N-CA	9.56	130.74	120.03
1	D	4139	ILE	CA-C-N	9.56	130.74	120.03
1	D	4139	ILE	C-N-CA	9.56	130.74	120.03
1	B	2274	ASP	N-CA-C	9.52	125.24	112.30
1	A	2274	ASP	N-CA-C	9.51	125.24	112.30
1	C	2274	ASP	N-CA-C	9.51	125.24	112.30
1	D	2274	ASP	N-CA-C	9.49	125.21	112.30
1	D	728	ARG	CA-C-N	9.39	129.45	119.78
1	D	728	ARG	C-N-CA	9.39	129.45	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	350	HIS	N-CA-C	-9.38	95.03	109.85
1	A	728	ARG	CA-C-N	9.37	129.43	119.78
1	A	728	ARG	C-N-CA	9.37	129.43	119.78
1	C	728	ARG	CA-C-N	9.37	129.43	119.78
1	C	728	ARG	C-N-CA	9.37	129.43	119.78
1	B	3897	ASN	N-CA-C	-9.37	101.07	111.28
1	A	73	LEU	N-CA-C	-9.36	90.86	110.80
1	B	73	LEU	N-CA-C	-9.36	90.86	110.80
1	B	728	ARG	CA-C-N	9.36	129.42	119.78
1	B	728	ARG	C-N-CA	9.36	129.42	119.78
1	D	73	LEU	N-CA-C	-9.36	90.86	110.80
1	C	73	LEU	N-CA-C	-9.36	90.86	110.80
1	A	350	HIS	N-CA-C	-9.35	95.07	109.85
1	C	350	HIS	N-CA-C	-9.35	95.07	109.85
1	D	350	HIS	N-CA-C	-9.35	95.07	109.85
1	A	3897	ASN	N-CA-C	-9.34	101.10	111.28
1	C	3897	ASN	N-CA-C	-9.34	101.10	111.28
1	D	3897	ASN	N-CA-C	-9.34	101.10	111.28
1	A	4183	ILE	N-CA-C	-9.32	93.71	108.81
1	B	4183	ILE	N-CA-C	-9.32	93.71	108.81
1	C	4183	ILE	N-CA-C	-9.32	93.71	108.81
1	D	4183	ILE	N-CA-C	-9.31	93.73	108.81
1	C	4806	ASN	N-CA-C	9.31	121.42	111.28
1	D	147	TRP	N-CA-C	-9.28	94.10	108.76
1	A	4806	ASN	N-CA-C	9.27	121.39	111.28
1	B	4806	ASN	N-CA-C	9.27	121.39	111.28
1	D	4806	ASN	N-CA-C	9.27	121.39	111.28
1	A	147	TRP	N-CA-C	-9.26	94.12	108.76
1	A	3572	GLN	N-CA-CB	-9.26	94.75	110.50
1	B	147	TRP	N-CA-C	-9.26	94.12	108.76
1	B	3572	GLN	N-CA-CB	-9.26	94.75	110.50
1	C	147	TRP	N-CA-C	-9.26	94.12	108.76
1	C	3572	GLN	N-CA-CB	-9.26	94.75	110.50
1	D	3572	GLN	N-CA-CB	-9.26	94.75	110.50
1	D	4177	TYR	N-CA-C	9.25	121.36	111.28
1	D	348	VAL	N-CA-C	-9.22	90.16	109.34
1	A	4177	TYR	N-CA-C	9.22	121.33	111.28
1	B	4177	TYR	N-CA-C	9.22	121.33	111.28
1	C	4177	TYR	N-CA-C	9.22	121.33	111.28
1	A	348	VAL	N-CA-C	-9.21	90.18	109.34
1	B	348	VAL	N-CA-C	-9.20	90.20	109.34
1	C	348	VAL	N-CA-C	-9.20	90.20	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	757	PHE	N-CA-C	9.19	124.02	109.50
1	D	757	PHE	N-CA-C	9.19	124.02	109.50
1	B	757	PHE	N-CA-C	9.18	124.00	109.50
1	C	757	PHE	N-CA-C	9.16	123.97	109.50
1	D	763	PRO	N-CA-CB	9.14	111.50	103.27
1	B	1199	VAL	N-CA-C	-9.12	95.48	108.80
1	A	763	PRO	N-CA-CB	9.12	111.48	103.27
1	C	763	PRO	N-CA-CB	9.12	111.48	103.27
1	A	832	GLU	CA-C-N	-9.11	107.57	121.87
1	A	832	GLU	C-N-CA	-9.11	107.57	121.87
1	D	832	GLU	CA-C-N	-9.11	107.57	121.87
1	D	832	GLU	C-N-CA	-9.11	107.57	121.87
1	A	1199	VAL	N-CA-C	-9.10	95.51	108.80
1	D	1199	VAL	N-CA-C	-9.10	95.51	108.80
1	D	488	LEU	N-CA-C	-9.10	102.09	113.01
1	C	1199	VAL	N-CA-C	-9.09	95.52	108.80
1	B	832	GLU	CA-C-N	-9.09	107.60	121.87
1	B	832	GLU	C-N-CA	-9.09	107.60	121.87
1	C	832	GLU	CA-C-N	-9.09	107.60	121.87
1	C	832	GLU	C-N-CA	-9.09	107.60	121.87
1	B	763	PRO	N-CA-CB	9.08	111.44	103.27
1	C	347	PHE	N-CA-C	9.08	125.30	114.04
1	A	488	LEU	N-CA-C	-9.07	102.12	113.01
1	B	488	LEU	N-CA-C	-9.07	102.12	113.01
1	C	488	LEU	N-CA-C	-9.07	102.12	113.01
1	A	301	VAL	N-CA-C	9.07	120.81	108.11
1	B	347	PHE	N-CA-C	9.06	125.27	114.04
1	A	347	PHE	N-CA-C	9.05	125.27	114.04
1	D	347	PHE	N-CA-C	9.05	125.27	114.04
1	B	301	VAL	N-CA-C	9.04	120.77	108.11
1	C	301	VAL	N-CA-C	9.04	120.77	108.11
1	D	301	VAL	N-CA-C	9.04	120.77	108.11
1	D	2788	HIS	CA-C-N	9.03	131.12	119.84
1	D	2788	HIS	C-N-CA	9.03	131.12	119.84
1	A	5020	ASP	N-CA-C	-9.02	103.39	114.75
1	B	5020	ASP	N-CA-C	-9.02	103.39	114.75
1	C	5020	ASP	N-CA-C	-9.02	103.39	114.75
1	D	5020	ASP	N-CA-C	-9.02	103.39	114.75
1	A	2788	HIS	CA-C-N	9.00	131.09	119.84
1	A	2788	HIS	C-N-CA	9.00	131.09	119.84
1	C	2788	HIS	CA-C-N	9.00	131.09	119.84
1	C	2788	HIS	C-N-CA	9.00	131.09	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	646	PRO	N-CA-CB	8.99	112.69	103.25
1	B	2788	HIS	CA-C-N	8.98	131.07	119.84
1	B	2788	HIS	C-N-CA	8.98	131.07	119.84
1	A	646	PRO	N-CA-CB	8.96	112.66	103.25
1	B	646	PRO	N-CA-CB	8.96	112.66	103.25
1	D	646	PRO	N-CA-CB	8.96	112.66	103.25
1	A	649	PHE	CA-C-N	-8.95	109.34	122.23
1	A	649	PHE	C-N-CA	-8.95	109.34	122.23
1	B	649	PHE	CA-C-N	-8.95	109.34	122.23
1	B	649	PHE	C-N-CA	-8.95	109.34	122.23
1	C	649	PHE	CA-C-N	-8.95	109.34	122.23
1	C	649	PHE	C-N-CA	-8.95	109.34	122.23
1	D	649	PHE	CA-C-N	-8.95	109.34	122.23
1	D	649	PHE	C-N-CA	-8.95	109.34	122.23
1	A	406	SER	CA-C-N	8.95	133.00	120.29
1	A	406	SER	C-N-CA	8.95	133.00	120.29
1	C	406	SER	CA-C-N	8.95	133.00	120.29
1	C	406	SER	C-N-CA	8.95	133.00	120.29
1	D	406	SER	CA-C-N	8.95	133.00	120.29
1	D	406	SER	C-N-CA	8.95	133.00	120.29
1	A	4956	THR	N-CA-C	8.94	120.79	111.14
1	B	4956	THR	N-CA-C	8.94	120.79	111.14
1	C	4956	THR	N-CA-C	8.94	120.79	111.14
1	D	4956	THR	N-CA-C	8.94	120.79	111.14
1	B	406	SER	CA-C-N	8.93	132.97	120.29
1	B	406	SER	C-N-CA	8.93	132.97	120.29
1	A	2859	PRO	N-CA-CB	8.93	111.74	103.08
1	C	2859	PRO	N-CA-CB	8.93	111.74	103.08
1	D	2859	PRO	N-CA-CB	8.93	111.74	103.08
1	B	2859	PRO	N-CA-CB	8.89	111.70	103.08
1	D	729	PRO	N-CA-CB	8.89	111.09	103.35
1	D	4803	HIS	N-CA-C	-8.89	91.87	110.80
1	A	4803	HIS	N-CA-C	-8.89	91.87	110.80
1	B	4803	HIS	N-CA-C	-8.89	91.87	110.80
1	C	729	PRO	N-CA-CB	8.88	111.08	103.35
1	C	4803	HIS	N-CA-C	-8.89	91.87	110.80
1	A	570	GLU	N-CA-C	8.88	120.57	111.07
1	B	570	GLU	N-CA-C	8.88	120.57	111.07
1	C	570	GLU	N-CA-C	8.88	120.57	111.07
1	A	1546	THR	CA-C-N	8.87	137.67	121.70
1	A	1546	THR	C-N-CA	8.87	137.67	121.70
1	B	1546	THR	CA-C-N	8.87	137.67	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1546	THR	C-N-CA	8.87	137.67	121.70
1	C	1546	THR	CA-C-N	8.87	137.67	121.70
1	C	1546	THR	C-N-CA	8.87	137.67	121.70
1	D	1546	THR	CA-C-N	8.87	137.67	121.70
1	D	1546	THR	C-N-CA	8.87	137.67	121.70
1	A	729	PRO	N-CA-CB	8.87	111.07	103.35
1	B	729	PRO	N-CA-CB	8.87	111.07	103.35
1	D	570	GLU	N-CA-C	8.87	120.56	111.07
1	D	3527	PRO	N-CA-CB	-8.85	93.27	103.00
1	A	3527	PRO	N-CA-CB	-8.83	93.28	103.00
1	B	3527	PRO	N-CA-CB	-8.83	93.28	103.00
1	C	3527	PRO	N-CA-CB	-8.83	93.28	103.00
1	C	1440	PHE	N-CA-C	-8.82	92.02	110.80
1	D	1440	PHE	N-CA-C	-8.82	92.02	110.80
1	A	1440	PHE	N-CA-C	-8.81	92.02	110.80
1	B	1440	PHE	N-CA-C	-8.81	92.02	110.80
1	A	2737	PRO	N-CA-CB	8.79	112.48	103.25
1	B	2737	PRO	N-CA-CB	8.79	112.48	103.25
1	C	2737	PRO	N-CA-CB	8.79	112.48	103.25
1	D	2737	PRO	N-CA-CB	8.79	112.48	103.25
1	A	4960	ILE	N-CA-C	8.77	118.81	110.30
1	B	4960	ILE	N-CA-C	8.77	118.81	110.30
1	C	4960	ILE	N-CA-C	8.77	118.81	110.30
1	D	4960	ILE	N-CA-C	8.77	118.81	110.30
1	A	2201	LEU	N-CA-C	-8.74	100.36	111.90
1	B	2201	LEU	N-CA-C	-8.74	100.36	111.90
1	C	2201	LEU	N-CA-C	-8.74	100.36	111.90
1	D	2201	LEU	N-CA-C	-8.74	100.36	111.90
1	C	2242	ILE	N-CA-C	8.72	119.51	110.62
1	A	2242	ILE	N-CA-C	8.69	119.48	110.62
1	B	2242	ILE	N-CA-C	8.69	119.48	110.62
1	D	2242	ILE	N-CA-C	8.69	119.48	110.62
1	A	541	SER	N-CA-C	8.59	120.27	111.07
1	B	541	SER	N-CA-C	8.59	120.27	111.07
1	C	541	SER	N-CA-C	8.59	120.27	111.07
1	D	484	LEU	O-C-N	8.57	133.99	122.59
1	D	541	SER	N-CA-C	8.56	120.23	111.07
1	A	484	LEU	O-C-N	8.54	133.95	122.59
1	B	484	LEU	O-C-N	8.54	133.95	122.59
1	C	484	LEU	O-C-N	8.54	133.95	122.59
1	C	685	GLY	N-CA-C	-8.53	92.97	113.18
1	A	685	GLY	N-CA-C	-8.52	92.98	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	685	GLY	N-CA-C	-8.52	92.98	113.18
1	B	685	GLY	N-CA-C	-8.52	93.00	113.18
1	A	521	LEU	N-CA-C	8.46	120.28	111.14
1	B	521	LEU	N-CA-C	8.46	120.28	111.14
1	C	521	LEU	N-CA-C	8.46	120.28	111.14
1	D	521	LEU	N-CA-C	8.46	120.28	111.14
1	B	3152	PHE	N-CA-CB	-8.45	96.13	110.50
1	C	1686	CYS	N-CA-C	-8.44	101.11	111.33
1	A	3152	PHE	N-CA-CB	-8.43	96.17	110.50
1	C	3152	PHE	N-CA-CB	-8.43	96.17	110.50
1	D	3152	PHE	N-CA-CB	-8.43	96.17	110.50
1	D	2593	ARG	N-CA-C	-8.43	102.17	111.36
1	A	1686	CYS	N-CA-C	-8.41	101.15	111.33
1	B	1686	CYS	N-CA-C	-8.41	101.15	111.33
1	D	1686	CYS	N-CA-C	-8.41	101.15	111.33
1	D	1282	SER	N-CA-C	-8.41	94.62	108.49
1	A	2593	ARG	N-CA-C	-8.40	102.21	111.36
1	C	2593	ARG	N-CA-C	-8.39	102.21	111.36
1	B	2593	ARG	N-CA-C	-8.39	102.21	111.36
1	A	279	PRO	N-CA-CB	8.37	112.04	103.25
1	C	279	PRO	N-CA-CB	8.37	112.04	103.25
1	D	279	PRO	N-CA-CB	8.37	112.04	103.25
1	B	709	ASP	N-CA-C	-8.36	93.00	110.80
1	B	1648	MET	N-CA-C	8.36	120.39	111.28
1	A	1290	ARG	N-CA-C	-8.35	93.01	110.80
1	B	1290	ARG	N-CA-C	-8.35	93.01	110.80
1	C	1290	ARG	N-CA-C	-8.35	93.01	110.80
1	C	4092	ASP	CB-CA-C	8.35	127.04	110.42
1	D	1290	ARG	N-CA-C	-8.35	93.01	110.80
1	A	1648	MET	N-CA-C	8.35	120.38	111.28
1	C	1648	MET	N-CA-C	8.35	120.38	111.28
1	D	1648	MET	N-CA-C	8.35	120.38	111.28
1	A	709	ASP	N-CA-C	-8.34	93.03	110.80
1	C	709	ASP	N-CA-C	-8.34	93.03	110.80
1	D	709	ASP	N-CA-C	-8.34	93.03	110.80
1	B	4092	ASP	CB-CA-C	8.34	127.02	110.42
1	B	279	PRO	N-CA-CB	8.34	112.00	103.25
1	D	4092	ASP	CB-CA-C	8.33	126.99	110.42
1	A	4092	ASP	CB-CA-C	8.33	126.99	110.42
1	C	1095	VAL	N-CA-C	-8.28	104.64	112.83
1	A	1614	GLN	N-CA-C	8.27	121.86	111.69
1	B	1614	GLN	N-CA-C	8.27	121.86	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	253	CYS	N-CA-C	-8.27	87.84	111.00
1	C	1614	GLN	N-CA-C	8.27	121.86	111.69
1	D	1614	GLN	N-CA-C	8.27	121.86	111.69
1	A	253	CYS	N-CA-C	-8.27	87.85	111.00
1	D	253	CYS	N-CA-C	-8.27	87.85	111.00
1	B	253	CYS	N-CA-C	-8.26	87.87	111.00
1	A	1095	VAL	N-CA-C	-8.25	104.66	112.83
1	D	1095	VAL	N-CA-C	-8.25	104.66	112.83
1	B	2197	LEU	N-CA-C	8.25	122.44	112.38
1	B	1241	SER	N-CA-C	8.24	123.93	113.55
1	A	4168	GLU	CB-CA-C	8.23	126.80	110.42
1	B	4168	GLU	CB-CA-C	8.23	126.80	110.42
1	C	4168	GLU	CB-CA-C	8.23	126.80	110.42
1	D	4168	GLU	CB-CA-C	8.23	126.80	110.42
1	A	2197	LEU	N-CA-C	8.22	122.41	112.38
1	C	2197	LEU	N-CA-C	8.22	122.41	112.38
1	D	2197	LEU	N-CA-C	8.22	122.41	112.38
1	A	1241	SER	N-CA-C	8.21	123.90	113.55
1	C	1241	SER	N-CA-C	8.21	123.90	113.55
1	D	1241	SER	N-CA-C	8.21	123.90	113.55
1	A	4667	PRO	CA-N-CD	-8.21	100.51	112.00
1	B	4667	PRO	CA-N-CD	-8.21	100.51	112.00
1	C	4667	PRO	CA-N-CD	-8.21	100.51	112.00
1	D	4667	PRO	CA-N-CD	-8.21	100.51	112.00
1	A	1452	TRP	N-CA-C	-8.21	96.53	109.50
1	B	1452	TRP	N-CA-C	-8.21	96.53	109.50
1	C	1452	TRP	N-CA-C	-8.21	96.53	109.50
1	D	1452	TRP	N-CA-C	-8.21	96.53	109.50
1	B	1095	VAL	N-CA-C	-8.20	104.71	112.83
1	A	4735	GLU	N-CA-C	8.15	119.79	111.07
1	B	4735	GLU	N-CA-C	8.15	119.79	111.07
1	D	4735	GLU	N-CA-C	8.15	119.79	111.07
1	C	733	PRO	N-CA-CB	8.15	111.80	103.25
1	A	256	ALA	N-CA-C	8.14	121.27	109.14
1	B	256	ALA	N-CA-C	8.14	121.27	109.14
1	C	256	ALA	N-CA-C	8.14	121.27	109.14
1	B	2280	VAL	N-CA-C	8.14	118.41	106.85
1	A	696	PRO	N-CA-C	-8.13	103.11	114.98
1	B	696	PRO	N-CA-C	-8.13	103.11	114.98
1	D	696	PRO	N-CA-C	-8.13	103.11	114.98
1	D	2826	ALA	N-CA-C	-8.13	103.19	113.43
1	A	2826	ALA	N-CA-C	-8.12	103.19	113.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2861	ASP	CA-C-N	8.12	131.98	120.28
1	A	2861	ASP	C-N-CA	8.12	131.98	120.28
1	B	2861	ASP	CA-C-N	8.12	131.98	120.28
1	B	2861	ASP	C-N-CA	8.12	131.98	120.28
1	C	4735	GLU	N-CA-C	8.13	119.77	111.07
1	C	1750	PRO	N-CA-CB	8.12	111.60	103.48
1	C	2826	ALA	N-CA-C	-8.12	103.19	113.43
1	D	2861	ASP	CA-C-N	8.12	131.98	120.28
1	D	2861	ASP	C-N-CA	8.12	131.98	120.28
1	C	2861	ASP	CA-C-N	8.12	131.98	120.28
1	C	2861	ASP	C-N-CA	8.12	131.98	120.28
1	A	2280	VAL	N-CA-C	8.12	118.38	106.85
1	C	2280	VAL	N-CA-C	8.12	118.38	106.85
1	D	256	ALA	N-CA-C	8.12	121.24	109.14
1	D	2280	VAL	N-CA-C	8.12	118.38	106.85
1	A	733	PRO	N-CA-CB	8.11	111.77	103.25
1	B	733	PRO	N-CA-CB	8.11	111.77	103.25
1	B	2826	ALA	N-CA-C	-8.11	103.21	113.43
1	D	733	PRO	N-CA-CB	8.11	111.77	103.25
1	C	696	PRO	N-CA-C	-8.11	103.15	114.98
1	B	2464	ASP	N-CA-C	-8.10	88.31	111.00
1	A	2464	ASP	N-CA-C	-8.10	88.32	111.00
1	C	2464	ASP	N-CA-C	-8.10	88.32	111.00
1	D	2464	ASP	N-CA-C	-8.10	88.32	111.00
1	A	673	PRO	N-CA-CB	8.10	110.89	103.20
1	B	673	PRO	N-CA-CB	8.10	110.89	103.20
1	C	673	PRO	N-CA-CB	8.10	110.89	103.20
1	D	673	PRO	N-CA-CB	8.10	110.89	103.20
1	D	1142	PRO	N-CA-CB	8.08	110.50	103.31
1	A	1750	PRO	N-CA-CB	8.06	111.54	103.48
1	B	1750	PRO	N-CA-CB	8.06	111.54	103.48
1	D	1750	PRO	N-CA-CB	8.06	111.54	103.48
1	A	1142	PRO	N-CA-CB	8.05	110.47	103.31
1	B	1142	PRO	N-CA-CB	8.05	110.47	103.31
1	C	1142	PRO	N-CA-CB	8.05	110.47	103.31
1	A	545	ASP	N-CA-C	-8.01	102.49	111.14
1	C	545	ASP	N-CA-C	-8.01	102.49	111.14
1	D	545	ASP	N-CA-C	-8.01	102.49	111.14
1	B	2462	PRO	N-CA-CB	8.00	111.65	103.25
1	A	2462	PRO	N-CA-CB	7.99	111.64	103.25
1	C	2462	PRO	N-CA-CB	7.99	111.64	103.25
1	D	2462	PRO	N-CA-CB	7.99	111.64	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2748	PRO	N-CA-CB	7.99	110.90	103.39
1	B	545	ASP	N-CA-C	-7.98	102.52	111.14
1	A	2748	PRO	N-CA-CB	7.95	110.87	103.39
1	C	2748	PRO	N-CA-CB	7.95	110.87	103.39
1	B	4182	GLU	N-CA-C	-7.94	93.89	110.80
1	C	4182	GLU	N-CA-C	-7.93	93.90	110.80
1	A	1587	PRO	N-CA-CB	7.93	110.70	103.33
1	C	1587	PRO	N-CA-CB	7.93	110.70	103.33
1	D	1587	PRO	N-CA-CB	7.93	110.70	103.33
1	B	2748	PRO	N-CA-CB	7.92	110.84	103.39
1	A	4182	GLU	N-CA-C	-7.91	93.94	110.80
1	B	1587	PRO	N-CA-CB	7.91	110.69	103.33
1	A	633	LEU	N-CA-C	-7.90	98.57	109.95
1	B	633	LEU	N-CA-C	-7.90	98.57	109.95
1	D	633	LEU	N-CA-C	-7.90	98.57	109.95
1	D	4182	GLU	N-CA-C	-7.88	94.00	110.80
1	C	633	LEU	N-CA-C	-7.87	98.61	109.95
1	B	60	PRO	N-CA-CB	7.84	110.62	103.33
1	A	60	PRO	N-CA-CB	7.83	110.61	103.33
1	C	60	PRO	N-CA-CB	7.83	110.61	103.33
1	D	60	PRO	N-CA-CB	7.83	110.61	103.33
1	A	502	HIS	CA-C-N	7.82	135.77	121.70
1	A	502	HIS	C-N-CA	7.82	135.77	121.70
1	B	502	HIS	CA-C-N	7.82	135.77	121.70
1	B	502	HIS	C-N-CA	7.82	135.77	121.70
1	C	502	HIS	CA-C-N	7.82	135.77	121.70
1	C	502	HIS	C-N-CA	7.82	135.77	121.70
1	D	502	HIS	CA-C-N	7.82	135.77	121.70
1	D	502	HIS	C-N-CA	7.82	135.77	121.70
1	A	1556	PRO	N-CA-C	7.81	128.56	112.47
1	D	1556	PRO	N-CA-C	7.81	128.56	112.47
1	C	1556	PRO	N-CA-C	7.81	128.56	112.47
1	B	1556	PRO	N-CA-C	7.81	128.56	112.47
1	C	407	THR	N-CA-C	-7.80	102.86	111.36
1	A	407	THR	N-CA-C	-7.80	102.86	111.36
1	B	407	THR	N-CA-C	-7.80	102.86	111.36
1	D	407	THR	N-CA-C	-7.80	102.86	111.36
1	A	1832	GLY	N-CA-C	-7.79	105.01	115.36
1	C	1832	GLY	N-CA-C	-7.79	105.01	115.36
1	D	1832	GLY	N-CA-C	-7.79	105.01	115.36
1	A	392	ARG	N-CA-C	-7.78	94.23	110.80
1	A	4666	VAL	CA-C-O	-7.78	113.48	118.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	392	ARG	N-CA-C	-7.78	94.23	110.80
1	B	4666	VAL	CA-C-O	-7.78	113.48	118.69
1	C	392	ARG	N-CA-C	-7.78	94.23	110.80
1	C	4666	VAL	CA-C-O	-7.78	113.48	118.69
1	D	392	ARG	N-CA-C	-7.78	94.23	110.80
1	C	252	VAL	CA-C-N	7.76	135.68	121.70
1	C	252	VAL	C-N-CA	7.76	135.68	121.70
1	B	2453	ILE	N-CA-C	-7.76	89.27	111.00
1	B	1832	GLY	N-CA-C	-7.76	105.04	115.36
1	D	4666	VAL	CA-C-O	-7.76	113.49	118.69
1	A	2453	ILE	N-CA-C	-7.75	89.29	111.00
1	C	2453	ILE	N-CA-C	-7.75	89.29	111.00
1	D	2453	ILE	N-CA-C	-7.75	89.29	111.00
1	A	252	VAL	CA-C-N	7.75	135.65	121.70
1	A	252	VAL	C-N-CA	7.75	135.65	121.70
1	B	252	VAL	CA-C-N	7.75	135.64	121.70
1	B	252	VAL	C-N-CA	7.75	135.64	121.70
1	A	440	ALA	N-CA-C	-7.74	102.92	111.36
1	B	440	ALA	N-CA-C	-7.74	102.92	111.36
1	C	440	ALA	N-CA-C	-7.74	102.92	111.36
1	D	440	ALA	N-CA-C	-7.74	102.92	111.36
1	D	252	VAL	CA-C-N	7.73	135.61	121.70
1	D	252	VAL	C-N-CA	7.73	135.61	121.70
1	A	3697	PRO	N-CA-CB	7.66	110.13	103.31
1	B	3697	PRO	N-CA-CB	7.66	110.13	103.31
1	C	3697	PRO	N-CA-CB	7.66	110.13	103.31
1	D	3697	PRO	N-CA-CB	7.66	110.13	103.31
1	B	1593	PRO	N-CA-CB	7.66	110.45	103.33
1	C	1593	PRO	N-CA-CB	7.65	110.45	103.33
1	B	439	GLU	N-CA-C	-7.65	89.58	111.00
1	A	4153	HIS	N-CA-C	7.64	119.69	111.36
1	D	4153	HIS	N-CA-C	7.64	119.69	111.36
1	A	439	GLU	N-CA-C	-7.64	89.61	111.00
1	D	439	GLU	N-CA-C	-7.64	89.61	111.00
1	A	1593	PRO	N-CA-CB	7.63	110.43	103.33
1	C	439	GLU	N-CA-C	-7.63	89.62	111.00
1	D	1593	PRO	N-CA-CB	7.63	110.43	103.33
1	B	4153	HIS	N-CA-C	7.61	119.66	111.36
1	C	4153	HIS	N-CA-C	7.61	119.66	111.36
1	C	1233	PRO	N-CA-CB	7.58	110.39	103.34
1	A	2874	MET	N-CA-C	7.58	119.62	111.36
1	B	2874	MET	N-CA-C	7.58	119.62	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2874	MET	N-CA-C	7.58	119.62	111.36
1	B	1023	PRO	N-CA-CB	7.56	110.49	103.15
1	A	1774	PRO	N-CA-CB	7.56	110.37	103.34
1	B	1774	PRO	N-CA-CB	7.56	110.37	103.34
1	C	1774	PRO	N-CA-CB	7.56	110.37	103.34
1	D	1774	PRO	N-CA-CB	7.56	110.37	103.34
1	A	1233	PRO	N-CA-CB	7.56	110.37	103.34
1	B	1233	PRO	N-CA-CB	7.56	110.37	103.34
1	D	1233	PRO	N-CA-CB	7.56	110.37	103.34
1	C	1023	PRO	N-CA-CB	7.56	110.48	103.15
1	A	3287	ARG	N-CA-C	-7.56	103.04	111.28
1	B	3287	ARG	N-CA-C	-7.56	103.04	111.28
1	C	3287	ARG	N-CA-C	-7.56	103.04	111.28
1	D	3287	ARG	N-CA-C	-7.56	103.04	111.28
1	D	2874	MET	N-CA-C	7.55	119.59	111.36
1	A	1704	PRO	N-CA-CB	7.55	110.03	103.31
1	B	1704	PRO	N-CA-CB	7.55	110.03	103.31
1	B	4206	GLU	N-CA-C	-7.55	100.56	110.53
1	C	1704	PRO	N-CA-CB	7.55	110.03	103.31
1	D	1704	PRO	N-CA-CB	7.55	110.03	103.31
1	D	1747	LEU	CB-CA-C	-7.55	93.61	109.38
1	A	4206	GLU	N-CA-C	-7.55	100.57	110.53
1	C	4206	GLU	N-CA-C	-7.55	100.57	110.53
1	D	4206	GLU	N-CA-C	-7.55	100.57	110.53
1	A	2145	SER	O-C-N	7.54	129.73	121.36
1	B	2145	SER	O-C-N	7.54	129.73	121.36
1	C	2145	SER	O-C-N	7.54	129.73	121.36
1	A	1747	LEU	CB-CA-C	-7.54	93.63	109.38
1	B	1747	LEU	CB-CA-C	-7.54	93.63	109.38
1	C	1747	LEU	CB-CA-C	-7.54	93.63	109.38
1	D	4666	VAL	CA-C-N	-7.53	110.64	118.85
1	D	4666	VAL	C-N-CA	-7.53	110.64	118.85
1	A	1023	PRO	N-CA-CB	7.53	110.45	103.15
1	D	1023	PRO	N-CA-CB	7.53	110.45	103.15
1	A	4835	LYS	CA-C-N	7.51	135.23	121.70
1	A	4835	LYS	C-N-CA	7.51	135.23	121.70
1	C	4835	LYS	CA-C-N	7.51	135.23	121.70
1	C	4835	LYS	C-N-CA	7.51	135.23	121.70
1	D	2145	SER	O-C-N	7.51	129.70	121.36
1	D	4835	LYS	CA-C-N	7.51	135.23	121.70
1	D	4835	LYS	C-N-CA	7.51	135.23	121.70
1	A	4666	VAL	CA-C-N	-7.50	110.67	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4666	VAL	C-N-CA	-7.50	110.67	118.85
1	B	4666	VAL	CA-C-N	-7.50	110.67	118.85
1	B	4666	VAL	C-N-CA	-7.50	110.67	118.85
1	C	4666	VAL	CA-C-N	-7.50	110.67	118.85
1	C	4666	VAL	C-N-CA	-7.50	110.67	118.85
1	B	4835	LYS	CA-C-N	7.50	135.20	121.70
1	B	4835	LYS	C-N-CA	7.50	135.20	121.70
1	A	1773	PRO	N-CA-CB	7.50	110.35	103.08
1	B	1773	PRO	N-CA-CB	7.50	110.35	103.08
1	C	1773	PRO	N-CA-CB	7.50	110.35	103.08
1	D	1773	PRO	N-CA-CB	7.49	110.34	103.08
1	C	59	PRO	N-CA-CB	7.47	110.33	103.08
1	A	59	PRO	N-CA-CB	7.47	110.32	103.08
1	B	59	PRO	N-CA-CB	7.47	110.32	103.08
1	D	59	PRO	N-CA-CB	7.47	110.32	103.08
1	B	1196	PRO	N-CA-CB	7.44	109.89	103.19
1	A	486	LEU	N-CA-C	-7.44	102.23	111.75
1	B	486	LEU	N-CA-C	-7.44	102.23	111.75
1	C	486	LEU	N-CA-C	-7.44	102.23	111.75
1	D	486	LEU	N-CA-C	-7.44	102.23	111.75
1	C	2907	PRO	N-CA-CB	7.43	109.88	103.19
1	D	1592	PRO	N-CA-CB	7.43	110.29	103.08
1	A	2907	PRO	N-CA-CB	7.40	109.85	103.19
1	B	2907	PRO	N-CA-CB	7.40	109.85	103.19
1	D	2907	PRO	N-CA-CB	7.40	109.85	103.19
1	A	638	ILE	N-CA-C	-7.39	98.59	108.35
1	B	638	ILE	N-CA-C	-7.39	98.59	108.35
1	C	638	ILE	N-CA-C	-7.39	98.59	108.35
1	C	3302	PRO	N-CA-CB	7.39	110.25	103.08
1	D	638	ILE	N-CA-C	-7.39	98.59	108.35
1	C	51	PRO	N-CA-CB	7.39	110.22	103.34
1	A	1592	PRO	N-CA-CB	7.39	110.25	103.08
1	C	1592	PRO	N-CA-CB	7.39	110.25	103.08
1	A	51	PRO	N-CA-CB	7.38	110.21	103.34
1	A	1196	PRO	N-CA-CB	7.38	109.84	103.19
1	C	1196	PRO	N-CA-CB	7.38	109.84	103.19
1	D	51	PRO	N-CA-CB	7.38	110.21	103.34
1	B	1592	PRO	N-CA-CB	7.38	110.24	103.08
1	D	2289	ALA	N-CA-C	7.38	119.32	111.28
1	D	1196	PRO	N-CA-CB	7.37	109.82	103.19
1	A	2289	ALA	N-CA-C	7.37	119.31	111.28
1	C	2289	ALA	N-CA-C	7.37	119.31	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3302	PRO	N-CA-CB	7.36	110.22	103.08
1	D	3302	PRO	N-CA-CB	7.36	110.22	103.08
1	B	2289	ALA	N-CA-C	7.36	119.30	111.28
1	B	51	PRO	N-CA-CB	7.35	110.17	103.34
1	C	1829	PRO	N-CA-CB	7.35	110.68	102.60
1	A	1829	PRO	N-CA-CB	7.34	110.68	102.60
1	B	1829	PRO	N-CA-CB	7.34	110.68	102.60
1	D	1829	PRO	N-CA-CB	7.34	110.68	102.60
1	B	3302	PRO	N-CA-CB	7.33	110.19	103.08
1	A	1684	ALA	CA-C-N	7.32	130.68	120.29
1	A	1684	ALA	C-N-CA	7.32	130.68	120.29
1	C	1684	ALA	CA-C-N	7.32	130.68	120.29
1	C	1684	ALA	C-N-CA	7.32	130.68	120.29
1	D	1684	ALA	CA-C-N	7.32	130.68	120.29
1	D	1684	ALA	C-N-CA	7.32	130.68	120.29
1	A	4176	PRO	CA-N-CD	-7.31	101.77	112.00
1	B	4176	PRO	CA-N-CD	-7.31	101.77	112.00
1	D	1624	LEU	N-CA-C	-7.31	95.23	110.80
1	D	4176	PRO	CA-N-CD	-7.31	101.77	112.00
1	A	4691	GLN	CB-CA-C	-7.30	95.78	110.17
1	B	4691	GLN	CB-CA-C	-7.30	95.78	110.17
1	C	4176	PRO	CA-N-CD	-7.30	101.77	112.00
1	C	4691	GLN	CB-CA-C	-7.30	95.78	110.17
1	A	745	SER	CA-C-O	7.30	130.32	120.47
1	B	745	SER	CA-C-O	7.30	130.32	120.47
1	C	745	SER	CA-C-O	7.30	130.32	120.47
1	D	745	SER	CA-C-O	7.30	130.32	120.47
1	A	3301	PRO	N-CA-CB	7.30	110.16	103.08
1	B	3301	PRO	N-CA-CB	7.30	110.16	103.08
1	C	3301	PRO	N-CA-CB	7.30	110.16	103.08
1	D	3301	PRO	N-CA-CB	7.30	110.16	103.08
1	D	4691	GLN	CB-CA-C	-7.30	95.80	110.17
1	A	1624	LEU	N-CA-C	-7.29	95.27	110.80
1	B	1624	LEU	N-CA-C	-7.29	95.27	110.80
1	B	1684	ALA	CA-C-N	7.29	130.65	120.29
1	B	1684	ALA	C-N-CA	7.29	130.65	120.29
1	C	1624	LEU	N-CA-C	-7.29	95.27	110.80
1	A	2586	VAL	CB-CA-C	-7.27	99.36	111.29
1	C	2586	VAL	CB-CA-C	-7.27	99.36	111.29
1	D	2586	VAL	CB-CA-C	-7.27	99.36	111.29
1	C	489	ASN	N-CA-C	-7.27	103.36	111.28
1	A	489	ASN	N-CA-C	-7.26	103.37	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	489	ASN	N-CA-C	-7.26	103.37	111.28
1	B	2586	VAL	CB-CA-C	-7.25	99.41	111.29
1	D	489	ASN	N-CA-C	-7.23	103.40	111.28
1	A	2190	VAL	N-CA-C	-7.21	98.20	108.58
1	C	2190	VAL	N-CA-C	-7.21	98.20	108.58
1	D	2190	VAL	N-CA-C	-7.21	98.20	108.58
1	C	2739	PRO	N-CA-CB	7.20	110.81	103.25
1	B	2190	VAL	N-CA-C	-7.20	98.22	108.58
1	A	2739	PRO	N-CA-CB	7.19	110.80	103.25
1	B	2739	PRO	N-CA-CB	7.19	110.80	103.25
1	D	2739	PRO	N-CA-CB	7.19	110.80	103.25
1	D	351	VAL	N-CA-C	-7.15	98.11	109.20
1	A	4969	ASP	N-CA-C	7.14	119.92	111.71
1	B	4969	ASP	N-CA-C	7.14	119.92	111.71
1	C	4969	ASP	N-CA-C	7.14	119.92	111.71
1	D	2141	ALA	N-CA-C	7.14	120.67	109.96
1	D	4969	ASP	N-CA-C	7.14	119.92	111.71
1	A	3699	HIS	N-CA-C	-7.13	105.11	113.88
1	B	2141	ALA	N-CA-C	7.13	120.66	109.96
1	C	152	PRO	N-CA-CB	7.13	110.74	103.25
1	D	3699	HIS	N-CA-C	-7.13	105.11	113.88
1	A	351	VAL	N-CA-C	-7.13	98.15	109.20
1	B	351	VAL	N-CA-C	-7.13	98.15	109.20
1	B	2276	ALA	N-CA-C	-7.13	103.51	111.28
1	C	351	VAL	N-CA-C	-7.13	98.15	109.20
1	B	3699	HIS	N-CA-C	-7.13	105.11	113.88
1	C	3699	HIS	N-CA-C	-7.13	105.11	113.88
1	A	1190	PRO	N-CA-CB	7.12	110.73	103.25
1	A	2141	ALA	N-CA-C	7.12	120.64	109.96
1	C	1190	PRO	N-CA-CB	7.12	110.73	103.25
1	C	2141	ALA	N-CA-C	7.12	120.64	109.96
1	D	1190	PRO	N-CA-CB	7.12	110.73	103.25
1	B	1190	PRO	N-CA-CB	7.11	110.72	103.25
1	A	152	PRO	N-CA-CB	7.11	110.72	103.25
1	B	152	PRO	N-CA-CB	7.11	110.72	103.25
1	D	152	PRO	N-CA-CB	7.11	110.72	103.25
1	A	2276	ALA	N-CA-C	-7.10	103.54	111.28
1	B	1546	THR	O-C-N	-7.10	115.01	123.31
1	C	1546	THR	O-C-N	-7.10	115.01	123.31
1	A	1546	THR	O-C-N	-7.09	115.01	123.31
1	D	1546	THR	O-C-N	-7.09	115.01	123.31
1	C	2276	ALA	N-CA-C	-7.08	103.56	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2276	ALA	N-CA-C	-7.08	103.56	111.28
1	C	390	LEU	N-CA-C	7.08	120.22	108.96
1	A	390	LEU	N-CA-C	7.06	120.19	108.96
1	D	390	LEU	N-CA-C	7.06	120.19	108.96
1	C	552	ASP	CA-C-N	-7.06	110.64	122.29
1	C	552	ASP	C-N-CA	-7.06	110.64	122.29
1	A	552	ASP	CA-C-N	-7.05	110.66	122.29
1	A	552	ASP	C-N-CA	-7.05	110.66	122.29
1	B	552	ASP	CA-C-N	-7.05	110.66	122.29
1	B	552	ASP	C-N-CA	-7.05	110.66	122.29
1	D	552	ASP	CA-C-N	-7.05	110.66	122.29
1	D	552	ASP	C-N-CA	-7.05	110.66	122.29
1	A	4729	GLY	N-CA-C	7.05	125.75	115.32
1	B	390	LEU	N-CA-C	7.05	120.17	108.96
1	C	1687	SER	CA-C-N	7.05	134.38	121.70
1	C	1687	SER	C-N-CA	7.05	134.38	121.70
1	C	4729	GLY	N-CA-C	7.05	125.75	115.32
1	D	4729	GLY	N-CA-C	7.05	125.75	115.32
1	A	1687	SER	CA-C-N	7.04	134.38	121.70
1	A	1687	SER	C-N-CA	7.04	134.38	121.70
1	B	1687	SER	CA-C-N	7.04	134.38	121.70
1	B	1687	SER	C-N-CA	7.04	134.38	121.70
1	D	1687	SER	CA-C-N	7.04	134.38	121.70
1	D	1687	SER	C-N-CA	7.04	134.38	121.70
1	C	793	LEU	N-CA-C	7.04	121.96	112.88
1	B	4729	GLY	N-CA-C	7.02	125.71	115.32
1	A	438	ILE	CA-C-N	7.02	134.34	121.70
1	A	438	ILE	C-N-CA	7.02	134.34	121.70
1	D	438	ILE	CA-C-N	7.02	134.34	121.70
1	D	438	ILE	C-N-CA	7.02	134.34	121.70
1	B	793	LEU	N-CA-C	7.02	121.93	112.88
1	A	793	LEU	N-CA-C	7.02	121.93	112.88
1	D	793	LEU	N-CA-C	7.02	121.93	112.88
1	C	2195	PRO	N-CA-CB	7.01	110.61	103.25
1	A	4186	ALA	N-CA-C	7.01	121.06	111.39
1	B	548	VAL	N-CA-C	-7.01	103.47	110.62
1	B	4186	ALA	N-CA-C	7.01	121.06	111.39
1	C	4186	ALA	N-CA-C	7.01	121.06	111.39
1	D	4186	ALA	N-CA-C	7.01	121.06	111.39
1	A	837	PRO	N-CA-CB	7.00	110.60	103.25
1	B	837	PRO	N-CA-CB	7.00	110.60	103.25
1	C	438	ILE	CA-C-N	7.00	134.30	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	438	ILE	C-N-CA	7.00	134.30	121.70
1	D	837	PRO	N-CA-CB	7.00	110.60	103.25
1	B	438	ILE	CA-C-N	7.00	134.30	121.70
1	B	438	ILE	C-N-CA	7.00	134.30	121.70
1	B	4982	GLU	N-CA-C	6.99	118.94	108.31
1	A	4982	GLU	N-CA-C	6.99	118.94	108.31
1	C	4982	GLU	N-CA-C	6.99	118.94	108.31
1	D	4982	GLU	N-CA-C	6.99	118.94	108.31
1	A	548	VAL	N-CA-C	-6.99	103.49	110.62
1	A	2195	PRO	N-CA-CB	6.99	110.59	103.25
1	A	2214	VAL	N-CA-C	-6.99	103.49	110.62
1	B	2214	VAL	N-CA-C	-6.99	103.49	110.62
1	C	2214	VAL	N-CA-C	-6.99	103.49	110.62
1	D	2195	PRO	N-CA-CB	6.99	110.59	103.25
1	D	2214	VAL	N-CA-C	-6.99	103.49	110.62
1	D	286	THR	N-CA-C	-6.99	95.92	110.80
1	B	1552	VAL	N-CA-C	-6.98	94.81	109.34
1	A	1552	VAL	N-CA-C	-6.98	94.82	109.34
1	A	4175	ARG	CA-C-N	-6.98	111.60	119.28
1	A	4175	ARG	C-N-CA	-6.98	111.60	119.28
1	C	1552	VAL	N-CA-C	-6.98	94.82	109.34
1	D	548	VAL	N-CA-C	-6.98	103.50	110.62
1	D	1552	VAL	N-CA-C	-6.98	94.82	109.34
1	C	837	PRO	N-CA-CB	6.98	110.58	103.25
1	A	286	THR	N-CA-C	-6.98	95.94	110.80
1	B	286	THR	N-CA-C	-6.98	95.94	110.80
1	C	286	THR	N-CA-C	-6.98	95.94	110.80
1	D	4175	ARG	CA-C-N	-6.97	111.62	119.28
1	D	4175	ARG	C-N-CA	-6.97	111.62	119.28
1	A	1946	PHE	N-CA-C	6.96	118.52	111.07
1	B	1946	PHE	N-CA-C	6.96	118.52	111.07
1	C	1946	PHE	N-CA-C	6.96	118.52	111.07
1	D	1946	PHE	N-CA-C	6.96	118.52	111.07
1	B	4175	ARG	CA-C-N	-6.96	111.63	119.28
1	B	4175	ARG	C-N-CA	-6.96	111.63	119.28
1	C	4175	ARG	CA-C-N	-6.96	111.63	119.28
1	C	4175	ARG	C-N-CA	-6.96	111.63	119.28
1	A	2916	LYS	CA-C-N	6.95	129.60	120.28
1	A	2916	LYS	C-N-CA	6.95	129.60	120.28
1	B	2195	PRO	N-CA-CB	6.95	110.55	103.25
1	B	2916	LYS	CA-C-N	6.95	129.60	120.28
1	B	2916	LYS	C-N-CA	6.95	129.60	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	548	VAL	N-CA-C	-6.95	103.53	110.62
1	C	2916	LYS	CA-C-N	6.95	129.60	120.28
1	C	2916	LYS	C-N-CA	6.95	129.60	120.28
1	D	2916	LYS	CA-C-N	6.95	129.60	120.28
1	D	2916	LYS	C-N-CA	6.95	129.60	120.28
1	B	344	SER	N-CA-C	-6.94	96.01	110.80
1	B	3836	MET	N-CA-C	-6.94	102.86	111.75
1	C	3836	MET	N-CA-C	-6.94	102.86	111.75
1	A	344	SER	N-CA-C	-6.94	96.03	110.80
1	C	344	SER	N-CA-C	-6.94	96.03	110.80
1	D	344	SER	N-CA-C	-6.94	96.03	110.80
1	A	3984	ARG	N-CA-C	6.93	125.56	110.80
1	C	3984	ARG	N-CA-C	6.93	125.56	110.80
1	A	3836	MET	N-CA-C	-6.92	102.89	111.75
1	D	3836	MET	N-CA-C	-6.92	102.89	111.75
1	B	3984	ARG	N-CA-C	6.92	125.54	110.80
1	D	3984	ARG	N-CA-C	6.92	125.54	110.80
1	B	2586	VAL	N-CA-CB	-6.90	99.84	111.23
1	A	2586	VAL	N-CA-CB	-6.90	99.85	111.23
1	C	2586	VAL	N-CA-CB	-6.90	99.85	111.23
1	D	2586	VAL	N-CA-CB	-6.90	99.85	111.23
1	A	160	GLY	N-CA-C	-6.86	96.92	113.18
1	B	160	GLY	N-CA-C	-6.86	96.92	113.18
1	D	160	GLY	N-CA-C	-6.86	96.92	113.18
1	C	160	GLY	N-CA-C	-6.85	96.95	113.18
1	D	1137	GLU	N-CA-C	6.84	114.16	108.07
1	A	5026	ASP	N-CA-C	6.84	120.32	108.76
1	B	5026	ASP	N-CA-C	6.84	120.32	108.76
1	D	631	LEU	CA-C-N	6.84	134.60	121.54
1	D	631	LEU	C-N-CA	6.84	134.60	121.54
1	A	201	ASN	CA-C-N	6.83	131.08	121.24
1	A	201	ASN	C-N-CA	6.83	131.08	121.24
1	A	631	LEU	CA-C-N	6.83	134.59	121.54
1	A	631	LEU	C-N-CA	6.83	134.59	121.54
1	B	631	LEU	CA-C-N	6.83	134.59	121.54
1	B	631	LEU	C-N-CA	6.83	134.59	121.54
1	C	201	ASN	CA-C-N	6.83	131.08	121.24
1	C	201	ASN	C-N-CA	6.83	131.08	121.24
1	C	631	LEU	CA-C-N	6.83	134.59	121.54
1	C	631	LEU	C-N-CA	6.83	134.59	121.54
1	D	201	ASN	CA-C-N	6.83	131.08	121.24
1	D	201	ASN	C-N-CA	6.83	131.08	121.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2860	PRO	N-CA-CB	6.83	110.42	103.25
1	D	2860	PRO	N-CA-CB	6.83	110.42	103.25
1	B	2860	PRO	N-CA-CB	6.83	110.42	103.25
1	D	5026	ASP	N-CA-C	6.83	120.30	108.76
1	A	1111	PRO	N-CA-CB	6.82	110.84	103.33
1	C	1111	PRO	N-CA-CB	6.82	110.84	103.33
1	C	5026	ASP	N-CA-C	6.82	120.29	108.76
1	D	1111	PRO	N-CA-CB	6.82	110.84	103.33
1	A	3695	PRO	N-CA-CB	6.82	110.50	103.00
1	B	3695	PRO	N-CA-CB	6.82	110.50	103.00
1	B	1111	PRO	N-CA-CB	6.81	110.82	103.33
1	A	1137	GLU	N-CA-C	6.81	114.13	108.07
1	B	1137	GLU	N-CA-C	6.81	114.13	108.07
1	C	1137	GLU	N-CA-C	6.81	114.13	108.07
1	B	201	ASN	CA-C-N	6.81	131.04	121.24
1	B	201	ASN	C-N-CA	6.81	131.04	121.24
1	A	506	TYR	N-CA-C	-6.80	103.87	111.28
1	B	506	TYR	N-CA-C	-6.80	103.87	111.28
1	C	506	TYR	N-CA-C	-6.80	103.87	111.28
1	D	506	TYR	N-CA-C	-6.80	103.87	111.28
1	C	3695	PRO	N-CA-CB	6.79	110.47	103.00
1	D	3695	PRO	N-CA-CB	6.79	110.47	103.00
1	B	1868	PRO	N-CA-CB	6.79	110.38	103.25
1	A	2567	PRO	N-CA-CB	6.79	110.47	103.00
1	B	2567	PRO	N-CA-CB	6.79	110.47	103.00
1	C	2567	PRO	N-CA-CB	6.79	110.47	103.00
1	D	2567	PRO	N-CA-CB	6.79	110.47	103.00
1	C	2860	PRO	N-CA-CB	6.78	110.37	103.25
1	C	916	PRO	N-CA-CB	6.78	110.46	103.00
1	D	597	HIS	N-CA-C	-6.78	99.73	113.29
1	A	1803	PRO	N-CA-CB	6.78	110.37	103.25
1	B	1803	PRO	N-CA-CB	6.78	110.37	103.25
1	C	1803	PRO	N-CA-CB	6.78	110.37	103.25
1	D	1803	PRO	N-CA-CB	6.78	110.37	103.25
1	A	3988	ALA	N-CA-C	-6.78	92.02	111.00
1	C	3988	ALA	N-CA-C	-6.78	92.02	111.00
1	D	3988	ALA	N-CA-C	-6.78	92.02	111.00
1	A	1626	TRP	N-CA-C	6.78	125.23	110.80
1	B	1626	TRP	N-CA-C	6.78	125.23	110.80
1	C	1626	TRP	N-CA-C	6.78	125.23	110.80
1	D	1626	TRP	N-CA-C	6.78	125.23	110.80
1	A	597	HIS	N-CA-C	-6.77	99.75	113.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3988	ALA	N-CA-C	-6.77	92.05	111.00
1	A	916	PRO	N-CA-CB	6.76	110.44	103.00
1	B	916	PRO	N-CA-CB	6.76	110.44	103.00
1	D	753	PRO	N-CA-CB	6.76	110.35	103.25
1	D	916	PRO	N-CA-CB	6.76	110.44	103.00
1	B	597	HIS	N-CA-C	-6.76	99.76	113.29
1	A	753	PRO	N-CA-CB	6.76	110.35	103.25
1	B	753	PRO	N-CA-CB	6.76	110.35	103.25
1	A	2366	PRO	N-CA-CB	6.76	110.43	103.00
1	C	597	HIS	N-CA-C	-6.76	99.78	113.29
1	A	1289	LEU	N-CA-C	-6.75	96.43	110.80
1	A	1706	PRO	N-CA-CB	6.75	110.45	103.23
1	B	2366	PRO	N-CA-CB	6.75	110.42	103.00
1	C	1289	LEU	N-CA-C	-6.75	96.43	110.80
1	C	1706	PRO	N-CA-CB	6.75	110.45	103.23
1	C	2366	PRO	N-CA-CB	6.75	110.42	103.00
1	D	1289	LEU	N-CA-C	-6.75	96.43	110.80
1	D	1706	PRO	N-CA-CB	6.75	110.45	103.23
1	D	2366	PRO	N-CA-CB	6.75	110.42	103.00
1	A	1868	PRO	N-CA-CB	6.74	110.33	103.25
1	C	1868	PRO	N-CA-CB	6.74	110.33	103.25
1	D	1868	PRO	N-CA-CB	6.74	110.33	103.25
1	C	753	PRO	N-CA-CB	6.74	110.33	103.25
1	A	337	PRO	N-CA-CB	6.74	110.32	103.25
1	A	4179	GLY	CA-C-N	6.74	133.83	121.70
1	A	4179	GLY	C-N-CA	6.74	133.83	121.70
1	B	337	PRO	N-CA-CB	6.74	110.32	103.25
1	B	1706	PRO	N-CA-CB	6.74	110.44	103.23
1	C	337	PRO	N-CA-CB	6.74	110.32	103.25
1	D	337	PRO	N-CA-CB	6.74	110.32	103.25
1	B	3662	ILE	N-CA-C	6.74	117.49	110.62
1	B	2325	PRO	N-CA-CB	6.73	110.41	103.00
1	B	1289	LEU	N-CA-C	-6.73	96.46	110.80
1	C	4179	GLY	CA-C-N	6.73	133.82	121.70
1	C	4179	GLY	C-N-CA	6.73	133.82	121.70
1	C	3662	ILE	N-CA-C	6.73	117.48	110.62
1	B	4179	GLY	CA-C-N	6.72	133.79	121.70
1	B	4179	GLY	C-N-CA	6.72	133.79	121.70
1	C	4699	GLY	N-CA-C	-6.72	104.67	112.73
1	D	4179	GLY	CA-C-N	6.72	133.79	121.70
1	D	4179	GLY	C-N-CA	6.72	133.79	121.70
1	D	4968	PHE	N-CA-C	-6.71	104.19	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3662	ILE	N-CA-C	6.70	117.46	110.62
1	D	3662	ILE	N-CA-C	6.70	117.46	110.62
1	A	2325	PRO	N-CA-CB	6.70	110.37	103.00
1	C	2325	PRO	N-CA-CB	6.70	110.37	103.00
1	D	1133	HIS	N-CA-C	6.70	118.66	111.36
1	D	2325	PRO	N-CA-CB	6.70	110.37	103.00
1	A	4968	PHE	N-CA-C	-6.70	104.21	112.38
1	C	4968	PHE	N-CA-C	-6.70	104.21	112.38
1	B	4699	GLY	N-CA-C	-6.69	104.70	112.73
1	D	1589	PRO	N-CA-CB	6.69	109.96	102.60
1	C	920	TYR	N-CA-C	-6.69	103.99	111.28
1	C	2937	VAL	N-CA-C	-6.69	96.00	107.24
1	A	4699	GLY	N-CA-C	-6.69	104.71	112.73
1	D	4699	GLY	N-CA-C	-6.69	104.71	112.73
1	A	1133	HIS	N-CA-C	6.68	118.64	111.36
1	A	1589	PRO	N-CA-CB	6.68	109.95	102.60
1	B	1133	HIS	N-CA-C	6.68	118.64	111.36
1	C	1589	PRO	N-CA-CB	6.68	109.95	102.60
1	B	425	PRO	N-CA-CB	6.68	110.35	103.00
1	B	1589	PRO	N-CA-CB	6.68	109.95	102.60
1	A	2937	VAL	N-CA-C	-6.68	96.02	107.24
1	B	2937	VAL	N-CA-C	-6.68	96.02	107.24
1	D	2937	VAL	N-CA-C	-6.68	96.02	107.24
1	D	1740	PRO	N-CA-CB	6.67	110.26	103.25
1	A	920	TYR	N-CA-C	-6.67	104.01	111.28
1	B	920	TYR	N-CA-C	-6.67	104.01	111.28
1	B	4968	PHE	N-CA-C	-6.67	104.25	112.38
1	D	920	TYR	N-CA-C	-6.67	104.01	111.28
1	A	425	PRO	N-CA-CB	6.67	110.33	103.00
1	D	425	PRO	N-CA-CB	6.67	110.33	103.00
1	B	2203	MET	N-CA-C	-6.66	104.02	111.28
1	D	2200	ALA	N-CA-C	6.66	119.28	108.63
1	B	70	GLU	N-CA-C	6.65	124.97	110.80
1	C	1133	HIS	N-CA-C	6.65	118.61	111.36
1	D	70	GLU	N-CA-C	6.65	124.97	110.80
1	A	2200	ALA	N-CA-C	6.65	119.27	108.63
1	B	2200	ALA	N-CA-C	6.65	119.27	108.63
1	A	70	GLU	N-CA-C	6.65	124.96	110.80
1	A	1745	ILE	CB-CA-C	6.65	122.19	111.29
1	B	1745	ILE	CB-CA-C	6.65	122.19	111.29
1	C	70	GLU	N-CA-C	6.65	124.96	110.80
1	C	1745	ILE	CB-CA-C	6.65	122.19	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1745	ILE	CB-CA-C	6.65	122.19	111.29
1	A	864	PRO	N-CA-CB	6.64	110.31	103.00
1	B	864	PRO	N-CA-CB	6.64	110.31	103.00
1	C	864	PRO	N-CA-CB	6.64	110.31	103.00
1	A	1740	PRO	N-CA-CB	6.64	110.22	103.25
1	B	1740	PRO	N-CA-CB	6.64	110.22	103.25
1	C	1740	PRO	N-CA-CB	6.64	110.22	103.25
1	C	425	PRO	N-CA-CB	6.64	110.30	103.00
1	C	2200	ALA	N-CA-C	6.63	119.25	108.63
1	C	2203	MET	N-CA-C	-6.63	104.05	111.28
1	A	2203	MET	N-CA-C	-6.63	104.05	111.28
1	D	2203	MET	N-CA-C	-6.63	104.05	111.28
1	D	2255	SER	N-CA-C	-6.63	104.05	111.28
1	A	2465	ASP	N-CA-C	-6.62	104.06	111.28
1	B	2465	ASP	N-CA-C	-6.62	104.06	111.28
1	D	2465	ASP	N-CA-C	-6.62	104.06	111.28
1	B	3987	ASP	CA-C-N	6.62	133.62	121.70
1	B	3987	ASP	C-N-CA	6.62	133.62	121.70
1	C	2465	ASP	N-CA-C	-6.62	104.07	111.28
1	A	2053	PRO	N-CA-CB	6.61	110.28	103.00
1	B	2053	PRO	N-CA-CB	6.61	110.28	103.00
1	C	2053	PRO	N-CA-CB	6.61	110.28	103.00
1	D	2053	PRO	N-CA-CB	6.61	110.28	103.00
1	D	864	PRO	N-CA-CB	6.61	110.27	103.00
1	A	1242	LEU	N-CA-C	6.61	119.20	109.62
1	B	1242	LEU	N-CA-C	6.61	119.20	109.62
1	C	1242	LEU	N-CA-C	6.61	119.20	109.62
1	D	1242	LEU	N-CA-C	6.61	119.20	109.62
1	A	3987	ASP	CA-C-N	6.60	133.58	121.70
1	A	3987	ASP	C-N-CA	6.60	133.58	121.70
1	C	3987	ASP	CA-C-N	6.60	133.58	121.70
1	C	3987	ASP	C-N-CA	6.60	133.58	121.70
1	D	3987	ASP	CA-C-N	6.60	133.58	121.70
1	D	3987	ASP	C-N-CA	6.60	133.58	121.70
1	A	2255	SER	N-CA-C	-6.60	104.09	111.28
1	B	2255	SER	N-CA-C	-6.60	104.09	111.28
1	C	2255	SER	N-CA-C	-6.60	104.09	111.28
1	C	2640	PRO	N-CA-CB	6.58	110.57	103.33
1	A	759	ILE	N-CA-C	-6.58	97.97	107.78
1	B	759	ILE	N-CA-C	-6.58	97.97	107.78
1	C	759	ILE	N-CA-C	-6.58	97.97	107.78
1	A	2640	PRO	N-CA-CB	6.57	110.56	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2640	PRO	N-CA-CB	6.57	110.56	103.33
1	D	2640	PRO	N-CA-CB	6.57	110.56	103.33
1	B	4835	LYS	N-CA-C	6.57	118.23	111.14
1	A	4835	LYS	N-CA-C	6.56	118.23	111.14
1	C	4835	LYS	N-CA-C	6.56	118.23	111.14
1	D	4835	LYS	N-CA-C	6.56	118.23	111.14
1	D	759	ILE	N-CA-C	-6.56	98.01	107.78
1	A	2226	PRO	N-CA-CB	6.55	110.21	103.00
1	B	2226	PRO	N-CA-CB	6.55	110.21	103.00
1	C	2226	PRO	N-CA-CB	6.55	110.21	103.00
1	D	2226	PRO	N-CA-CB	6.55	110.21	103.00
1	A	1536	SER	CB-CA-C	-6.55	96.51	109.67
1	B	1536	SER	CB-CA-C	-6.55	96.51	109.67
1	C	1536	SER	CB-CA-C	-6.55	96.51	109.67
1	C	4785	THR	N-CA-C	6.55	118.42	111.28
1	D	1536	SER	CB-CA-C	-6.55	96.51	109.67
1	A	3109	ASN	N-CA-C	-6.54	104.15	111.28
1	D	3109	ASN	N-CA-C	-6.54	104.15	111.28
1	B	1587	PRO	N-CA-C	-6.53	100.99	111.38
1	A	1538	THR	N-CA-C	6.53	119.54	107.99
1	B	1538	THR	N-CA-C	6.53	119.54	107.99
1	C	1538	THR	N-CA-C	6.53	119.54	107.99
1	D	1538	THR	N-CA-C	6.53	119.54	107.99
1	D	3303	PRO	N-CA-CB	6.52	110.50	103.33
1	A	24	CYS	CA-C-N	6.52	133.43	121.70
1	A	24	CYS	C-N-CA	6.52	133.43	121.70
1	B	3109	ASN	N-CA-C	-6.52	104.17	111.28
1	C	3109	ASN	N-CA-C	-6.52	104.17	111.28
1	D	24	CYS	CA-C-N	6.52	133.43	121.70
1	D	24	CYS	C-N-CA	6.52	133.43	121.70
1	A	4785	THR	N-CA-C	6.52	118.39	111.28
1	B	4785	THR	N-CA-C	6.52	118.39	111.28
1	D	3351	PRO	N-CA-CB	6.52	110.50	103.33
1	A	1587	PRO	N-CA-C	-6.51	101.02	111.38
1	A	3303	PRO	N-CA-CB	6.51	110.50	103.33
1	C	24	CYS	CA-C-N	6.51	133.43	121.70
1	C	24	CYS	C-N-CA	6.51	133.43	121.70
1	C	462	GLU	N-CA-C	6.51	121.06	112.72
1	C	1587	PRO	N-CA-C	-6.51	101.02	111.38
1	C	3303	PRO	N-CA-CB	6.51	110.50	103.33
1	D	1587	PRO	N-CA-C	-6.51	101.02	111.38
1	A	1586	ASN	N-CA-C	-6.51	103.91	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1586	ASN	N-CA-C	-6.51	103.91	113.16
1	D	1586	ASN	N-CA-C	-6.51	103.91	113.16
1	A	3937	TYR	N-CA-C	-6.51	104.18	111.28
1	B	3937	TYR	N-CA-C	-6.51	104.18	111.28
1	D	3937	TYR	N-CA-C	-6.51	104.18	111.28
1	A	865	PRO	N-CA-CB	6.51	110.49	103.33
1	B	24	CYS	CA-C-N	6.51	133.42	121.70
1	B	24	CYS	C-N-CA	6.51	133.42	121.70
1	B	1586	ASN	N-CA-C	-6.51	103.92	113.16
1	D	865	PRO	N-CA-CB	6.51	110.49	103.33
1	C	2919	ASP	CA-C-N	6.51	129.00	120.28
1	C	2919	ASP	C-N-CA	6.51	129.00	120.28
1	B	3303	PRO	N-CA-CB	6.51	110.49	103.33
1	A	462	GLU	N-CA-C	6.50	121.05	112.72
1	B	462	GLU	N-CA-C	6.50	121.05	112.72
1	D	462	GLU	N-CA-C	6.50	121.05	112.72
1	C	2658	PRO	N-CA-CB	6.50	110.48	103.33
1	B	3351	PRO	N-CA-CB	6.50	110.48	103.33
1	B	1687	SER	CA-C-O	6.50	128.46	121.05
1	B	105	HIS	N-CA-C	-6.50	96.97	110.80
1	A	3351	PRO	N-CA-CB	6.49	110.47	103.33
1	B	1553	PHE	N-CA-C	-6.49	98.02	109.06
1	C	3351	PRO	N-CA-CB	6.49	110.47	103.33
1	D	4785	THR	N-CA-C	6.49	118.36	111.28
1	B	3208	PRO	N-CA-CB	6.49	110.46	103.33
1	A	105	HIS	N-CA-C	-6.48	96.99	110.80
1	C	865	PRO	N-CA-CB	6.48	110.46	103.33
1	D	105	HIS	N-CA-C	-6.48	96.99	110.80
1	A	694	PRO	N-CA-CB	6.48	110.06	103.25
1	B	4074	SER	N-CA-C	6.48	119.76	110.10
1	C	694	PRO	N-CA-CB	6.48	110.06	103.25
1	B	4197	ILE	N-CA-CB	-6.48	103.04	110.49
1	C	3937	TYR	N-CA-C	-6.48	104.22	111.28
1	D	4197	ILE	N-CA-CB	-6.48	103.04	110.49
1	A	3645	PRO	N-CA-CB	6.48	110.13	103.00
1	A	4074	SER	N-CA-C	6.48	119.75	110.10
1	B	3645	PRO	N-CA-CB	6.48	110.13	103.00
1	C	3208	PRO	N-CA-CB	6.48	110.46	103.33
1	D	3645	PRO	N-CA-CB	6.48	110.13	103.00
1	A	1553	PHE	N-CA-C	-6.47	98.05	109.06
1	C	1553	PHE	N-CA-C	-6.47	98.05	109.06
1	C	4074	SER	N-CA-C	6.47	119.75	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1553	PHE	N-CA-C	-6.47	98.05	109.06
1	D	4074	SER	N-CA-C	6.47	119.75	110.10
1	A	2919	ASP	CA-C-N	6.47	128.95	120.28
1	A	2919	ASP	C-N-CA	6.47	128.95	120.28
1	B	1633	PRO	N-CA-CB	6.47	110.04	103.25
1	B	3892	CYS	N-CA-C	-6.47	99.70	109.60
1	C	105	HIS	N-CA-C	-6.47	97.02	110.80
1	D	2919	ASP	CA-C-N	6.47	128.95	120.28
1	D	2919	ASP	C-N-CA	6.47	128.95	120.28
1	A	1687	SER	CA-C-O	6.47	128.42	121.05
1	C	1687	SER	CA-C-O	6.47	128.42	121.05
1	C	3892	CYS	N-CA-C	-6.47	99.71	109.60
1	D	1687	SER	CA-C-O	6.47	128.42	121.05
1	D	3417	ASP	N-CA-C	6.47	118.12	111.14
1	A	1840	PRO	N-CA-CB	6.46	110.44	103.33
1	D	1840	PRO	N-CA-CB	6.46	110.44	103.33
1	B	865	PRO	N-CA-CB	6.46	110.43	103.33
1	B	2857	PRO	N-CA-CB	6.46	111.48	103.15
1	A	3208	PRO	N-CA-CB	6.46	110.43	103.33
1	A	3417	ASP	N-CA-C	6.46	118.11	111.14
1	B	694	PRO	N-CA-CB	6.46	110.03	103.25
1	B	3417	ASP	N-CA-C	6.46	118.11	111.14
1	C	3138	PRO	N-CA-CB	6.46	110.43	103.33
1	C	3417	ASP	N-CA-C	6.46	118.11	111.14
1	D	3208	PRO	N-CA-CB	6.46	110.43	103.33
1	C	1840	PRO	N-CA-CB	6.46	110.43	103.33
1	A	2658	PRO	N-CA-CB	6.45	110.43	103.33
1	B	2658	PRO	N-CA-CB	6.45	110.43	103.33
1	B	3360	PRO	N-CA-CB	6.45	110.43	103.33
1	D	2658	PRO	N-CA-CB	6.45	110.43	103.33
1	C	2857	PRO	N-CA-CB	6.45	111.47	103.15
1	A	706	GLY	N-CA-C	-6.45	106.33	115.30
1	B	706	GLY	N-CA-C	-6.45	106.33	115.30
1	C	706	GLY	N-CA-C	-6.45	106.33	115.30
1	C	3645	PRO	N-CA-CB	6.45	110.10	103.00
1	D	706	GLY	N-CA-C	-6.45	106.33	115.30
1	A	4197	ILE	N-CA-CB	-6.45	103.07	110.49
1	C	4197	ILE	N-CA-CB	-6.45	103.07	110.49
1	D	694	PRO	N-CA-CB	6.45	110.02	103.25
1	A	2857	PRO	N-CA-CB	6.45	111.47	103.15
1	A	1633	PRO	N-CA-CB	6.45	110.02	103.25
1	A	3892	CYS	N-CA-C	-6.45	99.74	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3138	PRO	N-CA-CB	6.45	110.42	103.33
1	C	1633	PRO	N-CA-CB	6.45	110.02	103.25
1	D	1633	PRO	N-CA-CB	6.45	110.02	103.25
1	D	3892	CYS	N-CA-C	-6.45	99.74	109.60
1	D	2857	PRO	N-CA-CB	6.44	111.46	103.15
1	A	3810	ALA	N-CA-C	6.44	118.30	111.28
1	B	2919	ASP	CA-C-N	6.44	128.91	120.28
1	B	2919	ASP	C-N-CA	6.44	128.91	120.28
1	B	3810	ALA	N-CA-C	6.44	118.30	111.28
1	C	3810	ALA	N-CA-C	6.44	118.30	111.28
1	D	3810	ALA	N-CA-C	6.44	118.30	111.28
1	A	3138	PRO	N-CA-CB	6.43	110.41	103.33
1	D	3138	PRO	N-CA-CB	6.43	110.41	103.33
1	B	1840	PRO	N-CA-CB	6.43	110.40	103.33
1	A	248	GLU	N-CA-C	6.43	118.62	108.79
1	B	4179	GLY	O-C-N	-6.43	118.39	123.27
1	C	248	GLU	N-CA-C	6.43	118.62	108.79
1	D	248	GLU	N-CA-C	6.43	118.62	108.79
1	D	4179	GLY	O-C-N	-6.43	118.39	123.27
1	A	1139	PHE	N-CA-C	6.42	120.51	111.52
1	A	2246	ASN	N-CA-C	-6.42	104.28	111.28
1	A	3360	PRO	N-CA-CB	6.42	110.39	103.33
1	B	2246	ASN	N-CA-C	-6.42	104.28	111.28
1	C	1139	PHE	N-CA-C	6.42	120.51	111.52
1	C	2246	ASN	N-CA-C	-6.42	104.28	111.28
1	C	3360	PRO	N-CA-CB	6.42	110.39	103.33
1	D	2246	ASN	N-CA-C	-6.42	104.28	111.28
1	D	3360	PRO	N-CA-CB	6.42	110.39	103.33
1	B	1139	PHE	N-CA-C	6.42	120.50	111.52
1	C	1107	PRO	N-CA-CB	6.41	110.05	103.00
1	B	248	GLU	N-CA-C	6.40	118.58	108.79
1	A	2745	VAL	N-CA-C	-6.40	98.30	107.77
1	B	2745	VAL	N-CA-C	-6.40	98.30	107.77
1	C	2745	VAL	N-CA-C	-6.40	98.30	107.77
1	D	2745	VAL	N-CA-C	-6.40	98.30	107.77
1	A	2139	PRO	N-CA-CB	6.39	110.36	103.33
1	B	2139	PRO	N-CA-CB	6.39	110.36	103.33
1	D	1139	PHE	N-CA-C	6.39	120.47	111.52
1	C	4179	GLY	O-C-N	-6.39	118.42	123.27
1	D	2139	PRO	N-CA-CB	6.38	110.35	103.33
1	C	2903	PRO	N-CA-CB	6.38	110.35	103.33
1	A	2172	PRO	N-CA-CB	6.38	109.95	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2172	PRO	N-CA-CB	6.38	109.95	103.25
1	C	2172	PRO	N-CA-CB	6.38	109.95	103.25
1	D	2172	PRO	N-CA-CB	6.38	109.95	103.25
1	A	4179	GLY	O-C-N	-6.37	118.43	123.27
1	D	571	SER	N-CA-C	6.37	113.96	108.22
1	C	2139	PRO	N-CA-CB	6.37	110.34	103.33
1	A	1107	PRO	N-CA-CB	6.37	110.01	103.00
1	B	1107	PRO	N-CA-CB	6.37	110.01	103.00
1	D	1107	PRO	N-CA-CB	6.37	110.01	103.00
1	A	834	PRO	N-CA-CB	6.37	110.33	103.33
1	A	2903	PRO	N-CA-CB	6.37	110.33	103.33
1	B	834	PRO	N-CA-CB	6.37	110.33	103.33
1	B	2903	PRO	N-CA-CB	6.37	110.33	103.33
1	D	834	PRO	N-CA-CB	6.37	110.33	103.33
1	D	2903	PRO	N-CA-CB	6.37	110.33	103.33
1	C	834	PRO	N-CA-CB	6.35	110.32	103.33
1	B	2528	PRO	N-CA-CB	6.35	110.31	103.33
1	B	3410	PRO	N-CA-CB	6.35	110.31	103.33
1	A	571	SER	N-CA-C	6.34	113.93	108.22
1	A	2528	PRO	N-CA-CB	6.34	110.31	103.33
1	C	571	SER	N-CA-C	6.34	113.93	108.22
1	C	2528	PRO	N-CA-CB	6.34	110.31	103.33
1	D	4741	LEU	N-CA-C	-6.34	104.37	111.28
1	A	831	ARG	CA-C-O	-6.33	114.23	121.58
1	B	831	ARG	CA-C-O	-6.33	114.24	121.58
1	C	831	ARG	CA-C-O	-6.33	114.24	121.58
1	D	831	ARG	CA-C-O	-6.33	114.23	121.58
1	C	4687	TYR	N-CA-C	-6.33	104.38	111.28
1	B	3519	PRO	N-CA-CB	6.33	110.29	103.33
1	B	4181	ILE	N-CA-C	-6.33	93.28	111.00
1	A	4741	LEU	N-CA-C	-6.33	104.38	111.28
1	A	3410	PRO	N-CA-CB	6.32	110.28	103.33
1	A	3519	PRO	N-CA-CB	6.32	110.28	103.33
1	A	4181	ILE	N-CA-C	-6.32	93.30	111.00
1	C	3410	PRO	N-CA-CB	6.32	110.28	103.33
1	C	3519	PRO	N-CA-CB	6.32	110.28	103.33
1	C	4181	ILE	N-CA-C	-6.32	93.30	111.00
1	D	3410	PRO	N-CA-CB	6.32	110.28	103.33
1	D	3519	PRO	N-CA-CB	6.32	110.28	103.33
1	D	4181	ILE	N-CA-C	-6.32	93.30	111.00
1	B	4741	LEU	N-CA-C	-6.32	104.39	111.28
1	B	4687	TYR	N-CA-C	-6.31	104.40	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2528	PRO	N-CA-CB	6.31	110.27	103.33
1	D	4687	TYR	N-CA-C	-6.31	104.40	111.28
1	B	571	SER	N-CA-C	6.31	113.90	108.22
1	C	3678	SER	N-CA-C	-6.31	104.40	111.28
1	C	4741	LEU	N-CA-C	-6.31	104.40	111.28
1	A	204	PRO	O-C-N	6.30	127.21	122.73
1	B	204	PRO	O-C-N	6.30	127.21	122.73
1	C	204	PRO	O-C-N	6.30	127.21	122.73
1	D	204	PRO	O-C-N	6.30	127.21	122.73
1	A	4687	TYR	N-CA-C	-6.30	104.41	111.28
1	A	692	TYR	N-CA-C	-6.29	97.56	108.69
1	B	692	TYR	N-CA-C	-6.29	97.56	108.69
1	C	692	TYR	N-CA-C	-6.29	97.56	108.69
1	D	692	TYR	N-CA-C	-6.29	97.56	108.69
1	A	3678	SER	N-CA-C	-6.29	104.43	111.28
1	A	979	PRO	N-CA-CB	6.28	110.18	103.39
1	B	979	PRO	N-CA-CB	6.28	110.18	103.39
1	C	979	PRO	N-CA-CB	6.28	110.18	103.39
1	D	979	PRO	N-CA-CB	6.28	110.18	103.39
1	A	4986	ALA	N-CA-C	-6.28	103.74	111.33
1	D	3678	SER	N-CA-C	-6.26	104.45	111.28
1	B	3678	SER	N-CA-C	-6.26	104.45	111.28
1	A	3297	PRO	N-CA-CB	6.26	110.45	103.44
1	A	3427	PRO	N-CA-CB	6.26	110.22	103.33
1	B	3297	PRO	N-CA-CB	6.26	110.45	103.44
1	C	3427	PRO	N-CA-CB	6.26	110.22	103.33
1	B	201	ASN	O-C-N	6.25	130.65	123.27
1	A	2473	PRO	N-CA-CB	6.25	110.20	103.33
1	B	2473	PRO	N-CA-CB	6.25	110.20	103.33
1	B	2560	PRO	N-CA-CB	6.25	110.20	103.33
1	C	2473	PRO	N-CA-CB	6.25	110.20	103.33
1	C	3297	PRO	N-CA-CB	6.25	110.44	103.44
1	D	2473	PRO	N-CA-CB	6.25	110.20	103.33
1	D	2560	PRO	N-CA-CB	6.25	110.20	103.33
1	A	3085	PRO	N-CA-CB	6.24	110.20	103.33
1	B	3085	PRO	N-CA-CB	6.24	110.20	103.33
1	B	3427	PRO	N-CA-CB	6.24	110.20	103.33
1	C	3085	PRO	N-CA-CB	6.24	110.20	103.33
1	D	3567	PRO	N-CA-CB	6.24	110.19	103.33
1	A	2793	PRO	N-CA-CB	6.24	109.80	103.25
1	B	2793	PRO	N-CA-CB	6.24	109.80	103.25
1	C	2793	PRO	N-CA-CB	6.24	109.80	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2793	PRO	N-CA-CB	6.24	109.80	103.25
1	D	3297	PRO	N-CA-CB	6.24	110.42	103.44
1	A	3453	ARG	N-CA-C	-6.23	104.49	111.28
1	A	3567	PRO	N-CA-CB	6.23	110.19	103.33
1	B	3453	ARG	N-CA-C	-6.23	104.49	111.28
1	C	3567	PRO	N-CA-CB	6.23	110.19	103.33
1	D	3453	ARG	N-CA-C	-6.23	104.49	111.28
1	C	1252	HIS	CA-C-N	6.23	127.63	119.84
1	C	1252	HIS	C-N-CA	6.23	127.63	119.84
1	D	3427	PRO	N-CA-CB	6.23	110.18	103.33
1	B	2789	PRO	N-CA-C	-6.22	99.65	112.47
1	A	2560	PRO	N-CA-CB	6.22	110.17	103.33
1	A	4088	ILE	N-CA-C	-6.22	106.26	112.17
1	B	4088	ILE	N-CA-C	-6.22	106.26	112.17
1	B	4922	PHE	CA-C-N	-6.22	112.22	122.79
1	B	4922	PHE	C-N-CA	-6.22	112.22	122.79
1	C	2560	PRO	N-CA-CB	6.22	110.17	103.33
1	C	4088	ILE	N-CA-C	-6.22	106.26	112.17
1	D	4088	ILE	N-CA-C	-6.22	106.26	112.17
1	D	4922	PHE	CA-C-N	-6.22	112.22	122.79
1	D	4922	PHE	C-N-CA	-6.22	112.22	122.79
1	A	201	ASN	O-C-N	6.22	130.61	123.27
1	D	201	ASN	O-C-N	6.22	130.61	123.27
1	A	4922	PHE	CA-C-N	-6.22	112.22	122.79
1	A	4922	PHE	C-N-CA	-6.22	112.22	122.79
1	C	3453	ARG	N-CA-C	-6.22	104.50	111.28
1	C	4922	PHE	CA-C-N	-6.22	112.22	122.79
1	C	4922	PHE	C-N-CA	-6.22	112.22	122.79
1	D	3085	PRO	N-CA-CB	6.21	110.17	103.33
1	A	668	VAL	N-CA-C	6.21	117.73	108.23
1	A	3457	ASN	N-CA-C	-6.21	104.51	111.28
1	B	668	VAL	N-CA-C	6.21	117.73	108.23
1	B	3457	ASN	N-CA-C	-6.21	104.51	111.28
1	B	3567	PRO	N-CA-CB	6.21	110.16	103.33
1	C	668	VAL	N-CA-C	6.21	117.73	108.23
1	C	3457	ASN	N-CA-C	-6.21	104.51	111.28
1	D	668	VAL	N-CA-C	6.21	117.73	108.23
1	D	3457	ASN	N-CA-C	-6.21	104.51	111.28
1	A	2789	PRO	N-CA-C	-6.21	99.68	112.47
1	C	2789	PRO	N-CA-C	-6.21	99.68	112.47
1	B	240	ASP	N-CA-C	-6.20	104.52	111.28
1	A	1252	HIS	CA-C-N	6.20	127.59	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1252	HIS	C-N-CA	6.20	127.59	119.84
1	B	1252	HIS	CA-C-N	6.20	127.59	119.84
1	B	1252	HIS	C-N-CA	6.20	127.59	119.84
1	D	2789	PRO	N-CA-C	-6.19	99.72	112.47
1	C	201	ASN	O-C-N	6.19	130.57	123.27
1	D	1252	HIS	CA-C-N	6.19	127.57	119.84
1	D	1252	HIS	C-N-CA	6.19	127.57	119.84
1	A	2196	ASN	N-CA-C	-6.18	104.54	111.28
1	B	2196	ASN	N-CA-C	-6.18	104.54	111.28
1	D	2196	ASN	N-CA-C	-6.18	104.54	111.28
1	B	265	LEU	N-CA-C	-6.18	105.32	112.92
1	C	2196	ASN	N-CA-C	-6.18	104.55	111.28
1	B	1684	ALA	O-C-N	6.17	128.66	122.12
1	A	240	ASP	N-CA-C	-6.17	104.56	111.28
1	D	240	ASP	N-CA-C	-6.17	104.56	111.28
1	A	4822	THR	N-CA-C	-6.17	104.56	111.28
1	B	4822	THR	N-CA-C	-6.17	104.56	111.28
1	C	2616	PRO	N-CA-CB	6.17	110.11	103.33
1	D	4822	THR	N-CA-C	-6.17	104.56	111.28
1	C	240	ASP	N-CA-C	-6.16	104.56	111.28
1	C	455	PRO	N-CA-CB	6.16	110.11	103.33
1	A	2808	PRO	N-CA-CB	6.16	110.11	103.33
1	A	2133	GLU	N-CA-C	-6.16	104.57	111.28
1	B	2133	GLU	N-CA-C	-6.16	104.57	111.28
1	D	2133	GLU	N-CA-C	-6.16	104.57	111.28
1	A	265	LEU	N-CA-C	-6.16	105.34	112.92
1	C	265	LEU	N-CA-C	-6.16	105.34	112.92
1	D	265	LEU	N-CA-C	-6.16	105.34	112.92
1	B	722	TRP	N-CA-C	-6.16	98.22	108.75
1	A	3881	THR	N-CA-C	-6.15	104.57	111.28
1	B	3881	THR	N-CA-C	-6.15	104.57	111.28
1	C	2808	PRO	N-CA-CB	6.15	110.10	103.33
1	D	2808	PRO	N-CA-CB	6.15	110.10	103.33
1	A	455	PRO	N-CA-CB	6.15	110.10	103.33
1	D	455	PRO	N-CA-CB	6.15	110.10	103.33
1	A	1684	ALA	O-C-N	6.15	128.64	122.12
1	C	1684	ALA	O-C-N	6.15	128.64	122.12
1	D	1684	ALA	O-C-N	6.15	128.64	122.12
1	A	722	TRP	N-CA-C	-6.15	98.24	108.75
1	D	722	TRP	N-CA-C	-6.15	98.24	108.75
1	C	722	TRP	N-CA-C	-6.14	98.24	108.75
1	D	3881	THR	N-CA-C	-6.14	104.58	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1535	GLU	N-CA-C	6.14	123.87	110.80
1	D	2889	LYS	CA-C-N	6.14	129.64	120.31
1	D	2889	LYS	C-N-CA	6.14	129.64	120.31
1	A	2616	PRO	N-CA-CB	6.13	110.08	103.33
1	C	4822	THR	N-CA-C	-6.13	104.59	111.28
1	D	2616	PRO	N-CA-CB	6.13	110.08	103.33
1	B	2616	PRO	N-CA-CB	6.12	110.07	103.33
1	C	2133	GLU	N-CA-C	-6.12	104.60	111.28
1	A	1535	GLU	N-CA-C	6.12	123.84	110.80
1	A	2889	LYS	CA-C-N	6.12	129.62	120.31
1	A	2889	LYS	C-N-CA	6.12	129.62	120.31
1	B	1535	GLU	N-CA-C	6.12	123.84	110.80
1	B	455	PRO	N-CA-CB	6.12	110.06	103.33
1	B	2808	PRO	N-CA-CB	6.12	110.06	103.33
1	B	4173	TYR	N-CA-CB	-6.12	101.14	110.01
1	C	3881	THR	N-CA-C	-6.12	104.61	111.28
1	A	4205	TRP	N-CA-C	6.11	118.74	111.71
1	B	4205	TRP	N-CA-C	6.11	118.74	111.71
1	D	4205	TRP	N-CA-C	6.11	118.74	111.71
1	B	2889	LYS	CA-C-N	6.11	129.60	120.31
1	B	2889	LYS	C-N-CA	6.11	129.60	120.31
1	C	1535	GLU	N-CA-C	6.11	123.81	110.80
1	B	2622	LEU	N-CA-C	-6.11	104.62	111.28
1	C	2889	LYS	CA-C-N	6.10	129.58	120.31
1	C	2889	LYS	C-N-CA	6.10	129.58	120.31
1	A	4173	TYR	N-CA-CB	-6.10	101.17	110.01
1	D	4173	TYR	N-CA-CB	-6.10	101.17	110.01
1	C	4205	TRP	N-CA-C	6.09	118.71	111.71
1	C	2622	LEU	N-CA-C	-6.08	104.65	111.28
1	A	1025	ARG	N-CA-C	-6.08	104.66	111.28
1	C	4173	TYR	N-CA-CB	-6.07	101.20	110.01
1	A	2140	ARG	N-CA-C	6.07	120.52	113.18
1	B	2140	ARG	N-CA-C	6.07	120.52	113.18
1	C	2140	ARG	N-CA-C	6.07	120.52	113.18
1	D	2140	ARG	N-CA-C	6.07	120.52	113.18
1	A	1625	GLY	N-CA-C	-6.07	105.30	112.64
1	B	1625	GLY	N-CA-C	-6.07	105.30	112.64
1	C	1625	GLY	N-CA-C	-6.07	105.30	112.64
1	D	1625	GLY	N-CA-C	-6.07	105.30	112.64
1	A	2622	LEU	N-CA-C	-6.06	104.67	111.28
1	B	1025	ARG	N-CA-C	-6.06	104.67	111.28
1	D	1025	ARG	N-CA-C	-6.06	104.67	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2622	LEU	N-CA-C	-6.06	104.67	111.28
1	A	2692	ASP	N-CA-C	-6.05	104.69	111.28
1	C	2692	ASP	N-CA-C	-6.05	104.69	111.28
1	D	2692	ASP	N-CA-C	-6.05	104.69	111.28
1	C	1025	ARG	N-CA-C	-6.05	104.69	111.28
1	A	437	PRO	N-CA-CB	6.04	110.21	103.44
1	B	437	PRO	N-CA-CB	6.04	110.21	103.44
1	C	437	PRO	N-CA-CB	6.04	110.21	103.44
1	D	437	PRO	N-CA-CB	6.04	110.21	103.44
1	A	1643	GLU	N-CA-C	6.04	117.86	111.28
1	B	1643	GLU	N-CA-C	6.04	117.86	111.28
1	C	1643	GLU	N-CA-C	6.04	117.86	111.28
1	D	4037	ASN	N-CA-C	-6.04	98.57	108.41
1	B	2692	ASP	N-CA-C	-6.03	104.70	111.28
1	C	4037	ASN	N-CA-C	-6.03	98.58	108.41
1	D	1643	GLU	N-CA-C	6.03	117.85	111.28
1	A	4037	ASN	N-CA-C	-6.03	98.59	108.41
1	B	4037	ASN	N-CA-C	-6.03	98.59	108.41
1	C	4960	ILE	CA-C-N	6.03	132.55	121.70
1	C	4960	ILE	C-N-CA	6.03	132.55	121.70
1	B	2592	GLY	N-CA-C	-6.02	95.83	113.30
1	A	2592	GLY	N-CA-C	-6.02	95.86	113.30
1	C	2592	GLY	N-CA-C	-6.02	95.86	113.30
1	D	2592	GLY	N-CA-C	-6.02	95.86	113.30
1	A	4960	ILE	CA-C-N	6.01	132.53	121.70
1	A	4960	ILE	C-N-CA	6.01	132.53	121.70
1	C	740	PRO	N-CA-CB	6.01	109.56	103.25
1	A	1227	ALA	N-CA-C	6.01	118.23	108.08
1	C	1227	ALA	N-CA-C	6.01	118.23	108.08
1	D	1227	ALA	N-CA-C	6.01	118.23	108.08
1	B	1227	ALA	N-CA-C	6.00	118.22	108.08
1	B	4960	ILE	CA-C-N	6.00	132.49	121.70
1	B	4960	ILE	C-N-CA	6.00	132.49	121.70
1	D	4960	ILE	CA-C-N	6.00	132.49	121.70
1	D	4960	ILE	C-N-CA	6.00	132.49	121.70
1	A	4823	LEU	N-CA-C	-5.99	104.75	111.28
1	B	4823	LEU	N-CA-C	-5.99	104.75	111.28
1	D	4823	LEU	N-CA-C	-5.99	104.75	111.28
1	D	4862	PHE	N-CA-C	-5.99	98.03	110.80
1	C	4823	LEU	N-CA-C	-5.99	104.75	111.28
1	B	740	PRO	N-CA-CB	5.98	109.53	103.25
1	D	581	ASN	N-CA-C	-5.98	104.10	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	4862	PHE	N-CA-C	-5.97	98.08	110.80
1	A	4862	PHE	N-CA-C	-5.97	98.08	110.80
1	A	740	PRO	N-CA-CB	5.97	109.52	103.25
1	D	740	PRO	N-CA-CB	5.97	109.52	103.25
1	C	5021	PHE	CA-CB-CG	-5.97	107.83	113.80
1	C	5017	ARG	N-CA-C	-5.96	94.30	111.00
1	A	5017	ARG	N-CA-C	-5.96	94.31	111.00
1	B	5017	ARG	N-CA-C	-5.96	94.31	111.00
1	D	5017	ARG	N-CA-C	-5.96	94.30	111.00
1	C	4862	PHE	N-CA-C	-5.96	98.10	110.80
1	A	3292	PRO	CA-C-N	5.96	126.52	120.38
1	A	3292	PRO	C-N-CA	5.96	126.52	120.38
1	B	3292	PRO	CA-C-N	5.96	126.52	120.38
1	B	3292	PRO	C-N-CA	5.96	126.52	120.38
1	C	3292	PRO	CA-C-N	5.96	126.52	120.38
1	C	3292	PRO	C-N-CA	5.96	126.52	120.38
1	D	2904	LEU	N-CA-C	-5.96	105.59	112.92
1	D	3292	PRO	CA-C-N	5.96	126.52	120.38
1	D	3292	PRO	C-N-CA	5.96	126.52	120.38
1	A	2904	LEU	N-CA-C	-5.96	105.59	112.92
1	B	2904	LEU	N-CA-C	-5.96	105.59	112.92
1	C	2904	LEU	N-CA-C	-5.96	105.59	112.92
1	A	581	ASN	N-CA-C	-5.95	104.13	111.33
1	B	581	ASN	N-CA-C	-5.95	104.13	111.33
1	C	581	ASN	N-CA-C	-5.95	104.13	111.33
1	B	2459	SER	N-CA-C	-5.95	104.79	111.28
1	B	4092	ASP	N-CA-CB	-5.95	100.44	110.49
1	A	1029	GLU	N-CA-C	5.94	117.76	111.28
1	B	1029	GLU	N-CA-C	5.94	117.76	111.28
1	C	1029	GLU	N-CA-C	5.94	117.76	111.28
1	D	1029	GLU	N-CA-C	5.94	117.76	111.28
1	A	311	ALA	N-CA-C	-5.94	96.42	107.71
1	B	3110	LEU	N-CA-C	-5.94	104.80	111.28
1	D	311	ALA	N-CA-C	-5.94	96.42	107.71
1	A	5021	PHE	CA-CB-CG	-5.94	107.86	113.80
1	D	5021	PHE	CA-CB-CG	-5.94	107.86	113.80
1	A	2459	SER	N-CA-C	-5.94	104.81	111.28
1	C	2459	SER	N-CA-C	-5.94	104.81	111.28
1	D	2459	SER	N-CA-C	-5.94	104.81	111.28
1	A	4092	ASP	N-CA-CB	-5.93	100.46	110.49
1	C	4092	ASP	N-CA-CB	-5.93	100.47	110.49
1	A	174	VAL	N-CA-C	-5.93	94.40	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	174	VAL	N-CA-C	-5.93	94.40	111.00
1	C	3110	LEU	N-CA-C	-5.93	104.82	111.28
1	B	311	ALA	N-CA-C	-5.92	96.45	107.71
1	C	311	ALA	N-CA-C	-5.92	96.45	107.71
1	B	1856	ASP	N-CA-C	-5.92	104.83	111.28
1	B	174	VAL	N-CA-C	-5.92	94.42	111.00
1	D	174	VAL	N-CA-C	-5.92	94.42	111.00
1	A	675	LEU	N-CA-C	-5.92	98.22	108.69
1	B	675	LEU	N-CA-C	-5.92	98.22	108.69
1	B	4140	GLY	N-CA-C	-5.92	105.61	112.83
1	D	675	LEU	N-CA-C	-5.92	98.22	108.69
1	A	3110	LEU	N-CA-C	-5.91	104.83	111.28
1	A	4140	GLY	N-CA-C	-5.91	105.62	112.83
1	C	4140	GLY	N-CA-C	-5.91	105.62	112.83
1	D	4140	GLY	N-CA-C	-5.91	105.62	112.83
1	A	992	GLY	N-CA-C	-5.91	105.20	112.77
1	B	992	GLY	N-CA-C	-5.91	105.20	112.77
1	D	992	GLY	N-CA-C	-5.91	105.20	112.77
1	D	4092	ASP	N-CA-CB	-5.91	100.50	110.49
1	C	675	LEU	N-CA-C	-5.90	98.24	108.69
1	B	5021	PHE	CA-CB-CG	-5.90	107.90	113.80
1	D	3110	LEU	N-CA-C	-5.90	104.85	111.28
1	A	546	TRP	CA-C-N	5.89	128.53	120.46
1	A	546	TRP	C-N-CA	5.89	128.53	120.46
1	B	2776	SER	CA-C-N	5.89	129.23	120.87
1	B	2776	SER	C-N-CA	5.89	129.23	120.87
1	C	546	TRP	CA-C-N	5.89	128.53	120.46
1	C	546	TRP	C-N-CA	5.89	128.53	120.46
1	D	546	TRP	CA-C-N	5.89	128.53	120.46
1	D	546	TRP	C-N-CA	5.89	128.53	120.46
1	C	766	GLY	N-CA-C	5.88	119.54	111.54
1	D	766	GLY	N-CA-C	5.88	119.54	111.54
1	A	4836	GLN	N-CA-C	-5.88	94.53	111.00
1	B	4836	GLN	N-CA-C	-5.88	94.53	111.00
1	C	992	GLY	N-CA-C	-5.88	105.24	112.77
1	C	4836	GLN	N-CA-C	-5.88	94.53	111.00
1	D	4836	GLN	N-CA-C	-5.88	94.53	111.00
1	A	1856	ASP	N-CA-C	-5.88	104.87	111.28
1	C	1856	ASP	N-CA-C	-5.88	104.87	111.28
1	D	1094	ALA	N-CA-C	5.88	118.25	108.20
1	D	2536	LEU	N-CA-C	5.88	117.36	111.07
1	B	1249	PRO	N-CA-C	5.88	117.87	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1866	ILE	N-CA-C	5.88	116.61	110.62
1	C	1866	ILE	N-CA-C	5.88	116.61	110.62
1	D	1866	ILE	N-CA-C	5.88	116.61	110.62
1	A	1249	PRO	N-CA-C	5.87	117.86	110.70
1	B	546	TRP	CA-C-N	5.87	128.50	120.46
1	B	546	TRP	C-N-CA	5.87	128.50	120.46
1	C	1249	PRO	N-CA-C	5.87	117.86	110.70
1	D	1249	PRO	N-CA-C	5.87	117.86	110.70
1	A	1094	ALA	N-CA-C	5.87	118.23	108.20
1	B	1094	ALA	N-CA-C	5.87	118.23	108.20
1	C	1094	ALA	N-CA-C	5.87	118.23	108.20
1	A	2776	SER	CA-C-N	5.86	129.20	120.87
1	A	2776	SER	C-N-CA	5.86	129.20	120.87
1	B	766	GLY	N-CA-C	5.86	119.52	111.54
1	C	2776	SER	CA-C-N	5.86	129.20	120.87
1	C	2776	SER	C-N-CA	5.86	129.20	120.87
1	D	2776	SER	CA-C-N	5.86	129.20	120.87
1	D	2776	SER	C-N-CA	5.86	129.20	120.87
1	A	766	GLY	N-CA-C	5.86	119.51	111.54
1	B	1866	ILE	N-CA-C	5.86	116.59	110.62
1	D	1856	ASP	N-CA-C	-5.85	104.90	111.28
1	A	2536	LEU	N-CA-C	5.85	117.33	111.07
1	B	2253	HIS	CA-C-N	5.85	128.12	120.28
1	B	2253	HIS	C-N-CA	5.85	128.12	120.28
1	C	2536	LEU	N-CA-C	5.85	117.33	111.07
1	B	712	TYR	N-CA-C	-5.85	97.43	107.61
1	A	2193	GLN	N-CA-C	-5.84	101.40	113.31
1	A	2253	HIS	CA-C-N	5.84	128.10	120.28
1	A	2253	HIS	C-N-CA	5.84	128.10	120.28
1	B	2193	GLN	N-CA-C	-5.84	101.40	113.31
1	C	2193	GLN	N-CA-C	-5.84	101.40	113.31
1	C	2253	HIS	CA-C-N	5.84	128.10	120.28
1	C	2253	HIS	C-N-CA	5.84	128.10	120.28
1	D	712	TYR	N-CA-C	-5.84	97.45	107.61
1	D	2193	GLN	N-CA-C	-5.84	101.40	113.31
1	D	2253	HIS	CA-C-N	5.84	128.10	120.28
1	D	2253	HIS	C-N-CA	5.84	128.10	120.28
1	A	1604	SER	N-CA-C	-5.84	104.92	111.28
1	A	2094	LEU	N-CA-C	-5.84	104.92	111.28
1	B	1604	SER	N-CA-C	-5.84	104.92	111.28
1	B	2094	LEU	N-CA-C	-5.84	104.92	111.28
1	C	1604	SER	N-CA-C	-5.84	104.92	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1604	SER	N-CA-C	-5.84	104.92	111.28
1	D	2094	LEU	N-CA-C	-5.84	104.92	111.28
1	B	2536	LEU	N-CA-C	5.84	117.31	111.07
1	A	773	LEU	N-CA-C	-5.83	102.68	110.55
1	B	773	LEU	N-CA-C	-5.83	102.68	110.55
1	C	773	LEU	N-CA-C	-5.83	102.68	110.55
1	D	773	LEU	N-CA-C	-5.83	102.68	110.55
1	A	712	TYR	N-CA-C	-5.83	97.47	107.61
1	C	712	TYR	N-CA-C	-5.83	97.47	107.61
1	A	1741	GLU	N-CA-C	-5.83	104.93	111.28
1	B	1741	GLU	N-CA-C	-5.83	104.93	111.28
1	C	1741	GLU	N-CA-C	-5.83	104.93	111.28
1	D	1741	GLU	N-CA-C	-5.83	104.93	111.28
1	C	2094	LEU	N-CA-C	-5.82	104.94	111.28
1	A	1218	GLY	N-CA-C	-5.82	105.75	112.73
1	B	1218	GLY	N-CA-C	-5.82	105.75	112.73
1	C	1218	GLY	N-CA-C	-5.82	105.75	112.73
1	D	1218	GLY	N-CA-C	-5.82	105.75	112.73
1	D	637	LEU	N-CA-C	-5.81	100.82	110.17
1	A	637	LEU	N-CA-C	-5.80	100.83	110.17
1	B	637	LEU	N-CA-C	-5.80	100.83	110.17
1	B	2821	TRP	N-CA-C	-5.80	98.47	108.56
1	A	2821	TRP	N-CA-C	-5.80	98.47	108.56
1	C	2821	TRP	N-CA-C	-5.80	98.47	108.56
1	D	2821	TRP	N-CA-C	-5.80	98.47	108.56
1	D	1688	HIS	N-CA-C	5.79	127.21	111.00
1	C	637	LEU	N-CA-C	-5.79	100.85	110.17
1	B	4180	ARG	CA-C-N	5.79	132.11	121.70
1	B	4180	ARG	C-N-CA	5.79	132.11	121.70
1	A	1688	HIS	N-CA-C	5.78	127.19	111.00
1	B	1688	HIS	N-CA-C	5.78	127.19	111.00
1	A	4180	ARG	CA-C-N	5.77	132.09	121.70
1	A	4180	ARG	C-N-CA	5.77	132.09	121.70
1	C	1688	HIS	N-CA-C	5.77	127.17	111.00
1	C	4180	ARG	CA-C-N	5.77	132.09	121.70
1	C	4180	ARG	C-N-CA	5.77	132.09	121.70
1	D	4180	ARG	CA-C-N	5.77	132.09	121.70
1	D	4180	ARG	C-N-CA	5.77	132.09	121.70
1	B	993	HIS	N-CA-C	-5.77	104.99	111.28
1	C	993	HIS	N-CA-C	-5.77	104.99	111.28
1	A	4861	LYS	N-CA-C	-5.76	98.52	110.80
1	C	4861	LYS	N-CA-C	-5.76	98.52	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	4861	LYS	N-CA-C	-5.76	98.52	110.80
1	B	2559	LEU	N-CA-C	-5.76	104.98	113.16
1	A	173	SER	CA-C-N	5.76	132.06	121.70
1	A	173	SER	C-N-CA	5.76	132.06	121.70
1	B	173	SER	CA-C-N	5.76	132.06	121.70
1	B	173	SER	C-N-CA	5.76	132.06	121.70
1	C	173	SER	CA-C-N	5.76	132.06	121.70
1	C	173	SER	C-N-CA	5.76	132.06	121.70
1	D	173	SER	CA-C-N	5.76	132.06	121.70
1	D	173	SER	C-N-CA	5.76	132.06	121.70
1	A	993	HIS	N-CA-C	-5.75	105.01	111.28
1	D	993	HIS	N-CA-C	-5.75	105.01	111.28
1	B	4861	LYS	N-CA-C	-5.75	98.56	110.80
1	B	2282	ASP	N-CA-C	5.75	117.54	111.28
1	A	627	PRO	N-CA-CB	5.74	109.80	103.26
1	B	627	PRO	N-CA-CB	5.74	109.80	103.26
1	C	627	PRO	N-CA-CB	5.74	109.80	103.26
1	D	627	PRO	N-CA-CB	5.74	109.80	103.26
1	A	2559	LEU	N-CA-C	-5.73	105.02	113.16
1	C	741	GLU	N-CA-C	5.73	118.47	111.82
1	C	2559	LEU	N-CA-C	-5.73	105.02	113.16
1	D	2559	LEU	N-CA-C	-5.73	105.02	113.16
1	B	486	LEU	O-C-N	5.73	128.73	122.20
1	B	741	GLU	N-CA-C	5.73	118.47	111.82
1	D	741	GLU	N-CA-C	5.73	118.47	111.82
1	A	2282	ASP	N-CA-C	5.73	117.53	111.28
1	C	2282	ASP	N-CA-C	5.73	117.53	111.28
1	D	2282	ASP	N-CA-C	5.73	117.53	111.28
1	A	3572	GLN	CB-CA-C	5.72	120.97	110.10
1	B	3572	GLN	CB-CA-C	5.72	120.97	110.10
1	C	3572	GLN	CB-CA-C	5.72	120.97	110.10
1	D	3572	GLN	CB-CA-C	5.72	120.97	110.10
1	D	755	ILE	CA-C-O	-5.71	115.12	121.23
1	A	741	GLU	N-CA-C	5.71	118.44	111.82
1	A	2792	ARG	N-CA-C	-5.71	102.58	109.83
1	B	2792	ARG	N-CA-C	-5.71	102.58	109.83
1	C	2792	ARG	N-CA-C	-5.71	102.58	109.83
1	A	486	LEU	O-C-N	5.71	128.70	122.20
1	C	486	LEU	O-C-N	5.71	128.70	122.20
1	C	755	ILE	CA-C-O	-5.71	115.13	121.23
1	D	486	LEU	O-C-N	5.71	128.70	122.20
1	D	2792	ARG	N-CA-C	-5.70	102.59	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4971	THR	CA-C-N	-5.70	113.39	120.79
1	A	4971	THR	C-N-CA	-5.70	113.39	120.79
1	D	4971	THR	CA-C-N	-5.70	113.39	120.79
1	D	4971	THR	C-N-CA	-5.70	113.39	120.79
1	A	755	ILE	CA-C-O	-5.69	115.14	121.23
1	B	755	ILE	CA-C-O	-5.69	115.14	121.23
1	D	4952	GLU	N-CA-C	5.69	117.29	111.14
1	A	4952	GLU	N-CA-C	5.68	117.28	111.14
1	C	4719	PHE	N-CA-C	-5.68	105.17	111.71
1	B	4971	THR	CA-C-N	-5.68	113.40	120.79
1	B	4971	THR	C-N-CA	-5.68	113.40	120.79
1	C	4971	THR	CA-C-N	-5.68	113.40	120.79
1	C	4971	THR	C-N-CA	-5.68	113.40	120.79
1	D	829	TYR	N-CA-C	-5.68	104.55	112.45
1	D	2452	ARG	CA-C-N	5.68	131.93	121.70
1	D	2452	ARG	C-N-CA	5.68	131.93	121.70
1	A	2452	ARG	CA-C-N	5.68	131.92	121.70
1	A	2452	ARG	C-N-CA	5.68	131.92	121.70
1	C	2452	ARG	CA-C-N	5.68	131.92	121.70
1	C	2452	ARG	C-N-CA	5.68	131.92	121.70
1	B	4952	GLU	N-CA-C	5.67	117.26	111.14
1	B	2452	ARG	CA-C-N	5.67	131.90	121.70
1	B	2452	ARG	C-N-CA	5.67	131.90	121.70
1	A	4719	PHE	N-CA-C	-5.66	105.20	111.71
1	B	4719	PHE	N-CA-C	-5.66	105.20	111.71
1	D	4719	PHE	N-CA-C	-5.66	105.20	111.71
1	D	2548	LEU	N-CA-C	-5.65	105.12	111.28
1	D	4666	VAL	C-N-CD	5.65	148.15	125.00
1	A	650	VAL	N-CA-C	-5.64	100.35	108.42
1	B	650	VAL	N-CA-C	-5.64	100.35	108.42
1	C	650	VAL	N-CA-C	-5.64	100.35	108.42
1	D	650	VAL	N-CA-C	-5.64	100.35	108.42
1	A	4666	VAL	C-N-CD	5.64	148.12	125.00
1	B	4666	VAL	C-N-CD	5.64	148.12	125.00
1	C	4666	VAL	C-N-CD	5.64	148.12	125.00
1	A	2548	LEU	N-CA-C	-5.63	105.14	111.28
1	B	2798	SER	N-CA-C	-5.63	100.53	109.76
1	C	2548	LEU	N-CA-C	-5.63	105.14	111.28
1	A	2798	SER	N-CA-C	-5.62	100.54	109.76
1	C	2798	SER	N-CA-C	-5.62	100.54	109.76
1	D	2922	LYS	CA-C-N	5.62	128.08	120.44
1	D	2922	LYS	C-N-CA	5.62	128.08	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2922	LYS	CA-C-N	5.62	128.08	120.44
1	A	2922	LYS	C-N-CA	5.62	128.08	120.44
1	A	4982	GLU	CA-C-N	5.62	131.81	121.70
1	A	4982	GLU	C-N-CA	5.62	131.81	121.70
1	B	2922	LYS	CA-C-N	5.62	128.08	120.44
1	B	2922	LYS	C-N-CA	5.62	128.08	120.44
1	B	4982	GLU	CA-C-N	5.62	131.81	121.70
1	B	4982	GLU	C-N-CA	5.62	131.81	121.70
1	C	2922	LYS	CA-C-N	5.62	128.08	120.44
1	C	2922	LYS	C-N-CA	5.62	128.08	120.44
1	C	4982	GLU	CA-C-N	5.62	131.81	121.70
1	C	4982	GLU	C-N-CA	5.62	131.81	121.70
1	D	4982	GLU	CA-C-N	5.62	131.81	121.70
1	D	4982	GLU	C-N-CA	5.62	131.81	121.70
1	D	2798	SER	N-CA-C	-5.61	100.56	109.76
1	A	550	LYS	CA-C-N	5.61	127.80	120.28
1	A	550	LYS	C-N-CA	5.61	127.80	120.28
1	B	550	LYS	CA-C-N	5.61	127.80	120.28
1	B	550	LYS	C-N-CA	5.61	127.80	120.28
1	C	550	LYS	CA-C-N	5.61	127.80	120.28
1	C	550	LYS	C-N-CA	5.61	127.80	120.28
1	A	1551	ALA	N-CA-C	-5.60	98.88	110.80
1	B	1551	ALA	N-CA-C	-5.60	98.88	110.80
1	B	2548	LEU	N-CA-C	-5.60	105.18	111.28
1	C	1551	ALA	N-CA-C	-5.60	98.88	110.80
1	D	1551	ALA	N-CA-C	-5.60	98.88	110.80
1	B	2780	ASN	CA-C-N	5.60	132.04	121.97
1	B	2780	ASN	C-N-CA	5.60	132.04	121.97
1	D	550	LYS	CA-C-N	5.59	127.78	120.28
1	D	550	LYS	C-N-CA	5.59	127.78	120.28
1	A	1455	PRO	N-CA-C	-5.59	105.76	113.53
1	B	1455	PRO	N-CA-C	-5.59	105.76	113.53
1	C	1455	PRO	N-CA-C	-5.59	105.76	113.53
1	D	1455	PRO	N-CA-C	-5.59	105.76	113.53
1	A	1606	SER	N-CA-C	-5.59	103.73	110.88
1	C	1606	SER	N-CA-C	-5.59	103.73	110.88
1	D	1606	SER	N-CA-C	-5.59	103.73	110.88
1	A	2780	ASN	CA-C-N	5.58	132.02	121.97
1	A	2780	ASN	C-N-CA	5.58	132.02	121.97
1	C	2780	ASN	CA-C-N	5.58	132.02	121.97
1	C	2780	ASN	C-N-CA	5.58	132.02	121.97
1	D	2780	ASN	CA-C-N	5.58	132.02	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2780	ASN	C-N-CA	5.58	132.02	121.97
1	A	2574	HIS	N-CA-C	-5.58	105.29	111.71
1	B	2574	HIS	N-CA-C	-5.58	105.29	111.71
1	C	2574	HIS	N-CA-C	-5.58	105.29	111.71
1	D	2574	HIS	N-CA-C	-5.58	105.29	111.71
1	A	2454	ARG	N-CA-C	-5.58	105.20	111.28
1	B	1606	SER	N-CA-C	-5.58	103.73	110.88
1	B	2454	ARG	N-CA-C	-5.58	105.20	111.28
1	C	2454	ARG	N-CA-C	-5.58	105.20	111.28
1	D	2454	ARG	N-CA-C	-5.58	105.20	111.28
1	C	4816	ILE	N-CA-C	5.58	116.31	110.62
1	A	4010	ILE	N-CA-C	5.58	116.35	110.72
1	B	4103	PHE	N-CA-C	5.58	117.32	108.79
1	C	4010	ILE	N-CA-C	5.58	116.35	110.72
1	D	4010	ILE	N-CA-C	5.58	116.35	110.72
1	D	4103	PHE	N-CA-C	5.58	117.32	108.79
1	A	4103	PHE	N-CA-C	5.57	117.31	108.79
1	C	4103	PHE	N-CA-C	5.57	117.31	108.79
1	A	4816	ILE	N-CA-C	5.56	116.29	110.62
1	B	4816	ILE	N-CA-C	5.56	116.29	110.62
1	D	4816	ILE	N-CA-C	5.56	116.29	110.62
1	A	3646	THR	N-CA-C	-5.56	105.22	111.28
1	D	3646	THR	N-CA-C	-5.56	105.22	111.28
1	A	2497	ASP	N-CA-C	-5.56	105.22	111.28
1	B	2497	ASP	N-CA-C	-5.56	105.22	111.28
1	C	2497	ASP	N-CA-C	-5.56	105.22	111.28
1	D	2497	ASP	N-CA-C	-5.56	105.22	111.28
1	A	1108	GLU	N-CA-C	5.55	117.33	111.28
1	C	1108	GLU	N-CA-C	5.55	117.33	111.28
1	D	1108	GLU	N-CA-C	5.55	117.33	111.28
1	B	1529	PHE	N-CA-C	-5.55	98.98	110.80
1	B	2541	PHE	N-CA-C	-5.55	105.23	111.28
1	A	2541	PHE	N-CA-C	-5.55	105.23	111.28
1	C	2541	PHE	N-CA-C	-5.55	105.23	111.28
1	D	2541	PHE	N-CA-C	-5.55	105.23	111.28
1	B	1108	GLU	N-CA-C	5.54	117.32	111.28
1	A	2573	GLU	N-CA-C	-5.54	105.24	111.28
1	C	2573	GLU	N-CA-C	-5.54	105.24	111.28
1	D	2573	GLU	N-CA-C	-5.54	105.24	111.28
1	A	4980	LEU	N-CA-C	5.54	117.12	111.14
1	B	4980	LEU	N-CA-C	5.54	117.12	111.14
1	C	4980	LEU	N-CA-C	5.54	117.12	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	4980	LEU	N-CA-C	5.54	117.12	111.14
1	B	3646	THR	N-CA-C	-5.54	105.24	111.28
1	C	3646	THR	N-CA-C	-5.54	105.24	111.28
1	C	1529	PHE	N-CA-C	-5.54	99.00	110.80
1	A	1529	PHE	N-CA-C	-5.54	99.01	110.80
1	A	2360	LYS	CA-C-N	-5.53	112.92	119.84
1	A	2360	LYS	C-N-CA	-5.53	112.92	119.84
1	B	2360	LYS	CA-C-N	-5.53	112.92	119.84
1	B	2360	LYS	C-N-CA	-5.53	112.92	119.84
1	C	2360	LYS	CA-C-N	-5.53	112.92	119.84
1	C	2360	LYS	C-N-CA	-5.53	112.92	119.84
1	D	2360	LYS	CA-C-N	-5.53	112.92	119.84
1	D	2360	LYS	C-N-CA	-5.53	112.92	119.84
1	D	1529	PHE	N-CA-C	-5.53	99.03	110.80
1	B	4010	ILE	N-CA-C	5.53	116.30	110.72
1	B	2573	GLU	N-CA-C	-5.51	105.27	111.28
1	A	1834	VAL	N-CA-C	-5.49	105.02	110.62
1	B	1834	VAL	N-CA-C	-5.49	105.02	110.62
1	C	1834	VAL	N-CA-C	-5.49	105.02	110.62
1	D	1834	VAL	N-CA-C	-5.49	105.02	110.62
1	D	4632	LEU	CA-C-N	5.49	131.58	121.70
1	D	4632	LEU	C-N-CA	5.49	131.58	121.70
1	A	2183	GLY	N-CA-C	-5.49	106.14	112.73
1	B	2183	GLY	N-CA-C	-5.49	106.14	112.73
1	C	2183	GLY	N-CA-C	-5.49	106.14	112.73
1	D	2183	GLY	N-CA-C	-5.49	106.14	112.73
1	A	1198	GLN	N-CA-C	-5.49	100.08	109.24
1	A	2274	ASP	CA-C-N	5.49	131.57	121.70
1	A	2274	ASP	C-N-CA	5.49	131.57	121.70
1	B	1198	GLN	N-CA-C	-5.49	100.08	109.24
1	C	1198	GLN	N-CA-C	-5.49	100.08	109.24
1	C	2274	ASP	CA-C-N	5.49	131.57	121.70
1	C	2274	ASP	C-N-CA	5.49	131.57	121.70
1	D	1198	GLN	N-CA-C	-5.49	100.08	109.24
1	D	2274	ASP	CA-C-N	5.49	131.57	121.70
1	D	2274	ASP	C-N-CA	5.49	131.57	121.70
1	A	4632	LEU	CA-C-N	5.48	131.57	121.70
1	A	4632	LEU	C-N-CA	5.48	131.57	121.70
1	B	4632	LEU	CA-C-N	5.48	131.57	121.70
1	B	4632	LEU	C-N-CA	5.48	131.57	121.70
1	C	4632	LEU	CA-C-N	5.48	131.57	121.70
1	C	4632	LEU	C-N-CA	5.48	131.57	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	391	THR	N-CA-C	5.47	122.45	110.80
1	B	391	THR	N-CA-C	5.47	122.45	110.80
1	C	391	THR	N-CA-C	5.47	122.45	110.80
1	D	391	THR	N-CA-C	5.47	122.45	110.80
1	B	2274	ASP	CA-C-N	5.46	131.53	121.70
1	B	2274	ASP	C-N-CA	5.46	131.53	121.70
1	B	918	ARG	CA-C-N	5.46	131.53	121.70
1	B	918	ARG	C-N-CA	5.46	131.53	121.70
1	A	918	ARG	CA-C-N	5.46	131.52	121.70
1	A	918	ARG	C-N-CA	5.46	131.52	121.70
1	B	540	PHE	CA-C-O	-5.46	114.77	120.55
1	C	918	ARG	CA-C-N	5.46	131.52	121.70
1	C	918	ARG	C-N-CA	5.46	131.52	121.70
1	D	918	ARG	CA-C-N	5.46	131.52	121.70
1	D	918	ARG	C-N-CA	5.46	131.52	121.70
1	A	235	ALA	N-CA-C	-5.46	103.19	110.55
1	D	235	ALA	N-CA-C	-5.46	103.19	110.55
1	A	4003	LEU	N-CA-C	-5.45	96.31	107.70
1	B	235	ALA	N-CA-C	-5.45	103.19	110.55
1	B	4003	LEU	N-CA-C	-5.45	96.31	107.70
1	C	235	ALA	N-CA-C	-5.45	103.19	110.55
1	C	4003	LEU	N-CA-C	-5.45	96.31	107.70
1	D	4003	LEU	N-CA-C	-5.45	96.31	107.70
1	C	2850	ASP	N-CA-C	-5.44	98.70	109.10
1	A	540	PHE	CA-C-O	-5.44	114.78	120.55
1	C	540	PHE	CA-C-O	-5.44	114.78	120.55
1	B	1682	ALA	N-CA-C	-5.44	105.35	111.28
1	C	2206	THR	N-CA-C	-5.44	105.35	111.28
1	D	2206	THR	N-CA-C	-5.44	105.35	111.28
1	A	2206	THR	N-CA-C	-5.43	105.36	111.28
1	B	2206	THR	N-CA-C	-5.43	105.36	111.28
1	C	148	TRP	CA-C-N	5.43	131.47	121.70
1	C	148	TRP	C-N-CA	5.43	131.47	121.70
1	D	540	PHE	CA-C-O	-5.43	114.80	120.55
1	B	536	ASN	N-CA-C	-5.43	104.80	111.75
1	D	536	ASN	N-CA-C	-5.43	104.80	111.75
1	A	2850	ASP	N-CA-C	-5.42	98.75	109.10
1	B	5022	PHE	CB-CA-C	-5.42	100.95	109.52
1	D	2850	ASP	N-CA-C	-5.42	98.75	109.10
1	A	148	TRP	CA-C-N	5.42	131.45	121.70
1	A	148	TRP	C-N-CA	5.42	131.45	121.70
1	B	148	TRP	CA-C-N	5.42	131.45	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	148	TRP	C-N-CA	5.42	131.45	121.70
1	D	148	TRP	CA-C-N	5.42	131.45	121.70
1	D	148	TRP	C-N-CA	5.42	131.45	121.70
1	D	490	CYS	N-CA-C	-5.41	105.46	111.36
1	A	482	GLY	N-CA-C	5.41	122.27	114.10
1	A	2245	GLN	N-CA-C	-5.41	105.46	111.36
1	B	2245	GLN	N-CA-C	-5.41	105.46	111.36
1	D	482	GLY	N-CA-C	5.41	122.27	114.10
1	D	2245	GLN	N-CA-C	-5.41	105.46	111.36
1	A	1682	ALA	N-CA-C	-5.41	105.38	111.28
1	B	2850	ASP	N-CA-C	-5.41	98.78	109.10
1	A	536	ASN	N-CA-C	-5.40	104.84	111.75
1	A	5022	PHE	CB-CA-C	-5.40	100.98	109.52
1	B	482	GLY	N-CA-C	5.40	122.26	114.10
1	C	536	ASN	N-CA-C	-5.40	104.84	111.75
1	C	5022	PHE	O-C-N	5.40	126.86	121.30
1	C	5022	PHE	CB-CA-C	-5.40	100.98	109.52
1	D	5022	PHE	CB-CA-C	-5.40	100.98	109.52
1	C	1617	THR	N-CA-C	-5.40	101.48	110.17
1	A	3422	HIS	N-CA-C	-5.40	105.40	111.28
1	B	3422	HIS	N-CA-C	-5.40	105.40	111.28
1	C	2245	GLN	N-CA-C	-5.40	105.48	111.36
1	D	3422	HIS	N-CA-C	-5.40	105.40	111.28
1	D	3989	VAL	N-CA-C	-5.40	104.34	111.09
1	B	4176	PRO	N-CA-C	-5.39	106.37	113.65
1	C	482	GLY	N-CA-C	5.39	122.24	114.10
1	C	4176	PRO	N-CA-C	-5.39	106.37	113.65
1	D	4176	PRO	N-CA-C	-5.39	106.37	113.65
1	C	1682	ALA	N-CA-C	-5.39	105.41	111.28
1	A	490	CYS	N-CA-C	-5.39	105.49	111.36
1	B	490	CYS	N-CA-C	-5.39	105.49	111.36
1	C	490	CYS	N-CA-C	-5.39	105.49	111.36
1	A	2679	PHE	N-CA-C	-5.38	105.41	111.28
1	B	2679	PHE	N-CA-C	-5.38	105.41	111.28
1	C	3422	HIS	N-CA-C	-5.38	105.41	111.28
1	D	2630	VAL	CB-CA-C	-5.38	108.64	114.35
1	A	4176	PRO	N-CA-C	-5.38	106.39	113.65
1	A	3989	VAL	N-CA-C	-5.38	104.36	111.09
1	B	3989	VAL	N-CA-C	-5.38	104.36	111.09
1	C	3989	VAL	N-CA-C	-5.38	104.36	111.09
1	A	1617	THR	N-CA-C	-5.38	101.51	110.17
1	A	2630	VAL	CB-CA-C	-5.38	108.65	114.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1617	THR	N-CA-C	-5.38	101.51	110.17
1	D	1682	ALA	N-CA-C	-5.38	105.42	111.28
1	A	1597	VAL	N-CA-C	-5.38	105.14	110.62
1	B	1597	VAL	N-CA-C	-5.38	105.14	110.62
1	C	1597	VAL	N-CA-C	-5.38	105.14	110.62
1	D	1597	VAL	N-CA-C	-5.38	105.14	110.62
1	D	3322	ILE	N-CA-C	-5.38	105.14	110.62
1	A	3322	ILE	N-CA-C	-5.37	105.14	110.62
1	A	4106	PRO	N-CA-C	-5.37	106.06	113.53
1	B	252	VAL	CA-C-O	-5.37	115.36	120.95
1	B	3322	ILE	N-CA-C	-5.37	105.14	110.62
1	B	4106	PRO	N-CA-C	-5.37	106.06	113.53
1	C	3322	ILE	N-CA-C	-5.37	105.14	110.62
1	D	4106	PRO	N-CA-C	-5.37	106.06	113.53
1	D	265	LEU	CA-C-N	5.37	131.36	122.33
1	D	265	LEU	C-N-CA	5.37	131.36	122.33
1	D	739	ALA	CA-C-N	5.37	126.55	119.84
1	D	739	ALA	C-N-CA	5.37	126.55	119.84
1	A	739	ALA	CA-C-N	5.37	126.55	119.84
1	A	739	ALA	C-N-CA	5.37	126.55	119.84
1	B	739	ALA	CA-C-N	5.37	126.55	119.84
1	B	739	ALA	C-N-CA	5.37	126.55	119.84
1	D	2679	PHE	N-CA-C	-5.37	105.43	111.28
1	C	739	ALA	CA-C-N	5.36	126.54	119.84
1	C	739	ALA	C-N-CA	5.36	126.54	119.84
1	D	2906	VAL	N-CA-C	-5.36	102.01	108.45
1	A	2906	VAL	N-CA-C	-5.36	102.02	108.45
1	C	2906	VAL	N-CA-C	-5.36	102.02	108.45
1	A	265	LEU	CA-C-N	5.36	131.34	122.33
1	A	265	LEU	C-N-CA	5.36	131.34	122.33
1	B	265	LEU	CA-C-N	5.36	131.34	122.33
1	B	265	LEU	C-N-CA	5.36	131.34	122.33
1	B	1617	THR	N-CA-C	-5.36	101.54	110.17
1	C	265	LEU	CA-C-N	5.36	131.34	122.33
1	C	265	LEU	C-N-CA	5.36	131.34	122.33
1	A	5022	PHE	O-C-N	5.36	126.82	121.30
1	D	5022	PHE	O-C-N	5.36	126.82	121.30
1	B	729	PRO	CA-C-O	-5.36	115.34	121.56
1	A	252	VAL	CA-C-O	-5.36	115.38	120.95
1	C	729	PRO	CA-C-O	-5.36	115.35	121.56
1	C	2679	PHE	N-CA-C	-5.36	105.44	111.28
1	D	252	VAL	CA-C-O	-5.36	115.38	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4106	PRO	N-CA-C	-5.35	106.09	113.53
1	B	390	LEU	CA-C-N	5.35	131.76	121.54
1	B	390	LEU	C-N-CA	5.35	131.76	121.54
1	B	2630	VAL	CB-CA-C	-5.35	108.68	114.35
1	C	2630	VAL	CB-CA-C	-5.35	108.68	114.35
1	D	729	PRO	CA-C-O	-5.34	115.36	121.56
1	C	390	LEU	CA-C-N	5.34	131.74	121.54
1	C	390	LEU	C-N-CA	5.34	131.74	121.54
1	C	2545	GLU	N-CA-C	-5.34	105.54	111.36
1	A	390	LEU	CA-C-N	5.34	131.74	121.54
1	A	390	LEU	C-N-CA	5.34	131.74	121.54
1	D	390	LEU	CA-C-N	5.34	131.74	121.54
1	D	390	LEU	C-N-CA	5.34	131.74	121.54
1	C	252	VAL	CA-C-O	-5.34	115.40	120.95
1	A	729	PRO	CA-C-O	-5.33	115.37	121.56
1	D	4665	LYS	N-CA-C	-5.33	105.47	111.28
1	B	1111	PRO	N-CA-C	-5.33	106.12	113.53
1	A	3794	VAL	N-CA-C	-5.33	105.19	110.62
1	B	3794	VAL	N-CA-C	-5.33	105.19	110.62
1	A	740	PRO	CA-C-N	5.32	128.40	120.31
1	A	740	PRO	C-N-CA	5.32	128.40	120.31
1	A	5023	PRO	CA-N-CD	-5.32	104.55	112.00
1	B	740	PRO	CA-C-N	5.32	128.40	120.31
1	B	740	PRO	C-N-CA	5.32	128.40	120.31
1	B	2906	VAL	N-CA-C	-5.32	102.06	108.45
1	B	5022	PHE	O-C-N	5.32	126.78	121.30
1	B	5023	PRO	CA-N-CD	-5.32	104.55	112.00
1	C	740	PRO	CA-C-N	5.32	128.40	120.31
1	C	740	PRO	C-N-CA	5.32	128.40	120.31
1	D	740	PRO	CA-C-N	5.32	128.40	120.31
1	D	740	PRO	C-N-CA	5.32	128.40	120.31
1	D	5023	PRO	CA-N-CD	-5.32	104.55	112.00
1	B	4987	ASN	N-CA-C	-5.32	105.48	111.28
1	C	4987	ASN	N-CA-C	-5.32	105.48	111.28
1	D	4987	ASN	N-CA-C	-5.32	105.48	111.28
1	A	4798	MET	N-CA-C	-5.32	105.60	111.71
1	B	2545	GLU	N-CA-C	-5.32	105.57	111.36
1	B	4798	MET	N-CA-C	-5.32	105.60	111.71
1	D	4798	MET	N-CA-C	-5.32	105.60	111.71
1	A	4665	LYS	N-CA-C	-5.31	105.50	111.28
1	B	4665	LYS	N-CA-C	-5.31	105.50	111.28
1	A	1931	LEU	N-CA-C	5.30	112.79	108.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1931	LEU	N-CA-C	5.30	112.79	108.07
1	A	1111	PRO	N-CA-C	-5.30	106.16	113.53
1	C	1111	PRO	N-CA-C	-5.30	106.16	113.53
1	C	5023	PRO	CA-N-CD	-5.30	104.58	112.00
1	D	1111	PRO	N-CA-C	-5.30	106.16	113.53
1	B	4154	VAL	N-CA-C	5.30	120.33	108.88
1	D	3794	VAL	N-CA-C	-5.30	105.21	110.62
1	A	4154	VAL	N-CA-C	5.30	120.33	108.88
1	C	3794	VAL	N-CA-C	-5.30	105.22	110.62
1	C	4154	VAL	N-CA-C	5.30	120.33	108.88
1	D	4154	VAL	N-CA-C	5.30	120.33	108.88
1	A	4837	LEU	N-CA-C	-5.30	105.51	111.28
1	B	4837	LEU	N-CA-C	-5.30	105.51	111.28
1	D	4837	LEU	N-CA-C	-5.30	105.51	111.28
1	C	3772	THR	N-CA-C	-5.29	105.51	111.28
1	A	2545	GLU	N-CA-C	-5.29	105.59	111.36
1	D	2545	GLU	N-CA-C	-5.29	105.59	111.36
1	A	4691	GLN	CA-C-N	-5.29	114.31	119.76
1	A	4691	GLN	C-N-CA	-5.29	114.31	119.76
1	C	4691	GLN	CA-C-N	-5.29	114.31	119.76
1	C	4691	GLN	C-N-CA	-5.29	114.31	119.76
1	D	4691	GLN	CA-C-N	-5.29	114.31	119.76
1	D	4691	GLN	C-N-CA	-5.29	114.31	119.76
1	C	1931	LEU	N-CA-C	5.29	112.78	108.07
1	C	4798	MET	N-CA-C	-5.29	105.63	111.71
1	A	1285	GLU	CA-C-N	5.28	131.20	121.70
1	A	1285	GLU	C-N-CA	5.28	131.20	121.70
1	B	1285	GLU	CA-C-N	5.28	131.20	121.70
1	B	1285	GLU	C-N-CA	5.28	131.20	121.70
1	C	1285	GLU	CA-C-N	5.28	131.20	121.70
1	C	1285	GLU	C-N-CA	5.28	131.20	121.70
1	D	1285	GLU	CA-C-N	5.28	131.20	121.70
1	D	1285	GLU	C-N-CA	5.28	131.20	121.70
1	C	4837	LEU	N-CA-C	-5.28	105.53	111.28
1	C	4665	LYS	N-CA-C	-5.28	105.53	111.28
1	D	2893	GLU	CA-C-N	5.27	127.87	120.28
1	D	2893	GLU	C-N-CA	5.27	127.87	120.28
1	A	4175	ARG	C-N-CD	5.27	146.61	125.00
1	C	1822	GLY	CA-C-N	5.27	129.23	121.96
1	C	1822	GLY	C-N-CA	5.27	129.23	121.96
1	D	4175	ARG	C-N-CD	5.27	146.59	125.00
1	B	4175	ARG	C-N-CD	5.26	146.58	125.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3772	THR	N-CA-C	-5.26	105.54	111.28
1	B	1931	LEU	N-CA-C	5.26	112.75	108.07
1	C	4175	ARG	C-N-CD	5.26	146.58	125.00
1	D	3772	THR	N-CA-C	-5.26	105.54	111.28
1	C	1618	ARG	N-CA-C	-5.26	99.59	110.80
1	A	2802	LYS	CA-C-N	5.26	127.85	120.28
1	A	2802	LYS	C-N-CA	5.26	127.85	120.28
1	B	438	ILE	CA-C-O	-5.26	115.60	121.17
1	C	2802	LYS	CA-C-N	5.26	127.85	120.28
1	C	2802	LYS	C-N-CA	5.26	127.85	120.28
1	D	2802	LYS	CA-C-N	5.26	127.85	120.28
1	D	2802	LYS	C-N-CA	5.26	127.85	120.28
1	B	919	ASN	N-CA-C	-5.25	96.29	111.00
1	A	919	ASN	N-CA-C	-5.25	96.30	111.00
1	B	4691	GLN	CA-C-N	-5.25	114.35	119.76
1	B	4691	GLN	C-N-CA	-5.25	114.35	119.76
1	C	919	ASN	N-CA-C	-5.25	96.30	111.00
1	D	919	ASN	N-CA-C	-5.25	96.30	111.00
1	A	4127	GLU	N-CA-C	-5.25	105.56	111.28
1	B	4127	GLU	N-CA-C	-5.25	105.56	111.28
1	C	4127	GLU	N-CA-C	-5.25	105.56	111.28
1	D	4127	GLU	N-CA-C	-5.25	105.56	111.28
1	A	1618	ARG	N-CA-C	-5.25	99.62	110.80
1	A	2893	GLU	CA-C-N	5.25	127.84	120.28
1	A	2893	GLU	C-N-CA	5.25	127.84	120.28
1	B	1618	ARG	N-CA-C	-5.25	99.62	110.80
1	B	2893	GLU	CA-C-N	5.25	127.84	120.28
1	B	2893	GLU	C-N-CA	5.25	127.84	120.28
1	C	2893	GLU	CA-C-N	5.25	127.84	120.28
1	C	2893	GLU	C-N-CA	5.25	127.84	120.28
1	D	1618	ARG	N-CA-C	-5.25	99.62	110.80
1	D	2213	ASN	N-CA-C	-5.25	105.56	111.28
1	A	2114	PRO	N-CA-CB	5.25	109.10	103.33
1	B	2114	PRO	N-CA-CB	5.25	109.10	103.33
1	B	2500	ALA	N-CA-C	-5.25	105.56	111.28
1	C	2114	PRO	N-CA-CB	5.25	109.10	103.33
1	C	2500	ALA	N-CA-C	-5.25	105.56	111.28
1	A	438	ILE	CA-C-O	-5.25	115.61	121.17
1	C	438	ILE	CA-C-O	-5.25	115.61	121.17
1	D	438	ILE	CA-C-O	-5.25	115.61	121.17
1	B	2802	LYS	CA-C-N	5.24	127.83	120.28
1	B	2802	LYS	C-N-CA	5.24	127.83	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1206	GLN	N-CA-C	5.24	121.96	110.80
1	B	544	LEU	N-CA-C	5.24	116.99	111.28
1	C	544	LEU	N-CA-C	5.24	116.99	111.28
1	C	1206	GLN	N-CA-C	5.24	121.96	110.80
1	D	1206	GLN	N-CA-C	5.24	121.96	110.80
1	B	3772	THR	N-CA-C	-5.23	105.58	111.28
1	A	544	LEU	N-CA-C	5.23	116.98	111.28
1	B	1206	GLN	N-CA-C	5.23	121.94	110.80
1	C	4960	ILE	CA-C-O	-5.23	115.70	121.29
1	A	2866	THR	CA-C-N	5.22	131.52	121.54
1	A	2866	THR	C-N-CA	5.22	131.52	121.54
1	B	2866	THR	CA-C-N	5.22	131.52	121.54
1	B	2866	THR	C-N-CA	5.22	131.52	121.54
1	C	2866	THR	CA-C-N	5.22	131.52	121.54
1	C	2866	THR	C-N-CA	5.22	131.52	121.54
1	D	2866	THR	CA-C-N	5.22	131.52	121.54
1	D	2866	THR	C-N-CA	5.22	131.52	121.54
1	A	1822	GLY	CA-C-N	5.22	129.16	121.96
1	A	1822	GLY	C-N-CA	5.22	129.16	121.96
1	D	1822	GLY	CA-C-N	5.22	129.16	121.96
1	D	1822	GLY	C-N-CA	5.22	129.16	121.96
1	A	2500	ALA	N-CA-C	-5.22	105.59	111.28
1	B	634	GLN	N-CA-C	-5.22	100.81	108.79
1	D	2114	PRO	N-CA-CB	5.22	109.07	103.33
1	D	2500	ALA	N-CA-C	-5.22	105.59	111.28
1	A	2213	ASN	N-CA-C	-5.22	105.59	111.28
1	B	1822	GLY	CA-C-N	5.22	129.16	121.96
1	B	1822	GLY	C-N-CA	5.22	129.16	121.96
1	A	829	TYR	N-CA-C	-5.21	104.53	112.04
1	B	829	TYR	N-CA-C	-5.21	104.53	112.04
1	C	829	TYR	N-CA-C	-5.21	104.53	112.04
1	A	634	GLN	N-CA-C	-5.20	100.83	108.79
1	C	634	GLN	N-CA-C	-5.20	100.83	108.79
1	C	2213	ASN	N-CA-C	-5.20	105.61	111.28
1	D	634	GLN	N-CA-C	-5.20	100.83	108.79
1	A	4915	VAL	CB-CA-C	-5.20	105.32	111.97
1	C	4915	VAL	CB-CA-C	-5.20	105.32	111.97
1	D	544	LEU	N-CA-C	5.20	116.94	111.28
1	B	2213	ASN	N-CA-C	-5.20	105.62	111.28
1	D	4960	ILE	CA-C-O	-5.20	115.73	121.29
1	A	3698	LEU	N-CA-C	-5.19	105.62	111.28
1	A	4960	ILE	CA-C-O	-5.19	115.73	121.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3698	LEU	N-CA-C	-5.19	105.62	111.28
1	B	4960	ILE	CA-C-O	-5.19	115.73	121.29
1	C	3698	LEU	N-CA-C	-5.19	105.62	111.28
1	D	3698	LEU	N-CA-C	-5.19	105.62	111.28
1	A	2540	THR	N-CA-C	-5.19	105.62	111.28
1	B	2540	THR	N-CA-C	-5.19	105.62	111.28
1	C	2540	THR	N-CA-C	-5.19	105.62	111.28
1	D	2540	THR	N-CA-C	-5.19	105.62	111.28
1	B	2868	SER	N-CA-C	-5.19	103.54	110.55
1	D	4915	VAL	CB-CA-C	-5.19	105.33	111.97
1	A	214	VAL	N-CA-C	-5.18	105.34	110.62
1	A	2868	SER	N-CA-C	-5.18	103.56	110.55
1	C	2868	SER	N-CA-C	-5.18	103.56	110.55
1	D	2868	SER	N-CA-C	-5.18	103.56	110.55
1	C	4559	PHE	N-CA-C	5.17	116.61	111.07
1	A	1248	VAL	N-CA-C	5.17	113.43	109.19
1	B	1248	VAL	N-CA-C	5.17	113.43	109.19
1	D	1248	VAL	N-CA-C	5.17	113.43	109.19
1	B	4915	VAL	CB-CA-C	-5.17	105.35	111.97
1	B	214	VAL	N-CA-C	-5.17	105.35	110.62
1	B	4205	TRP	O-C-N	5.17	128.26	122.22
1	C	4205	TRP	O-C-N	5.17	128.26	122.22
1	C	214	VAL	N-CA-C	-5.16	105.35	110.62
1	D	2243	SER	N-CA-C	5.16	117.49	108.76
1	A	2243	SER	N-CA-C	5.16	117.48	108.76
1	B	2243	SER	N-CA-C	5.16	117.48	108.76
1	C	2243	SER	N-CA-C	5.16	117.48	108.76
1	A	1679	ASN	N-CA-C	-5.16	105.66	111.28
1	C	1679	ASN	N-CA-C	-5.16	105.66	111.28
1	D	1679	ASN	N-CA-C	-5.16	105.66	111.28
1	D	478	PHE	N-CA-C	5.16	116.98	111.36
1	D	484	LEU	CA-C-O	-5.16	113.14	120.51
1	D	214	VAL	N-CA-C	-5.15	105.36	110.62
1	A	1613	LEU	N-CA-C	5.15	121.77	110.80
1	C	1613	LEU	N-CA-C	5.15	121.77	110.80
1	C	1248	VAL	N-CA-C	5.15	113.41	109.19
1	B	1613	LEU	N-CA-C	5.15	121.76	110.80
1	D	1613	LEU	N-CA-C	5.15	121.76	110.80
1	A	485	SER	CA-C-O	5.14	126.00	120.70
1	B	485	SER	CA-C-O	5.14	126.00	120.70
1	A	4559	PHE	N-CA-C	5.14	116.57	111.07
1	B	4559	PHE	N-CA-C	5.14	116.57	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	4559	PHE	N-CA-C	5.14	116.57	111.07
1	A	484	LEU	CA-C-O	-5.14	113.16	120.51
1	B	484	LEU	CA-C-O	-5.14	113.16	120.51
1	C	484	LEU	CA-C-O	-5.14	113.16	120.51
1	A	4205	TRP	O-C-N	5.13	128.23	122.22
1	D	4205	TRP	O-C-N	5.13	128.23	122.22
1	C	485	SER	CA-C-O	5.13	125.99	120.70
1	A	4997	ASN	N-CA-C	5.13	116.77	108.41
1	A	4698	LYS	N-CA-C	-5.12	96.65	111.00
1	B	4698	LYS	N-CA-C	-5.12	96.65	111.00
1	C	4698	LYS	N-CA-C	-5.12	96.65	111.00
1	A	478	PHE	N-CA-C	5.12	116.94	111.36
1	A	1120	LEU	N-CA-C	5.12	116.86	111.28
1	B	478	PHE	N-CA-C	5.12	116.94	111.36
1	B	1120	LEU	N-CA-C	5.12	116.86	111.28
1	C	1120	LEU	N-CA-C	5.12	116.86	111.28
1	D	1120	LEU	N-CA-C	5.12	116.86	111.28
1	C	478	PHE	N-CA-C	5.12	116.94	111.36
1	C	5025	GLY	N-CA-C	-5.12	101.05	113.18
1	D	485	SER	CA-C-O	5.12	125.97	120.70
1	D	4698	LYS	N-CA-C	-5.12	96.67	111.00
1	B	1679	ASN	N-CA-C	-5.11	105.71	111.28
1	D	421	PHE	N-CA-C	-5.11	102.29	109.96
1	B	5025	GLY	N-CA-C	-5.11	101.07	113.18
1	A	5025	GLY	N-CA-C	-5.11	101.08	113.18
1	D	5025	GLY	N-CA-C	-5.11	101.08	113.18
1	C	792	LEU	N-CA-C	5.11	118.44	107.67
1	D	1737	PRO	CA-C-N	-5.10	116.16	123.20
1	D	1737	PRO	C-N-CA	-5.10	116.16	123.20
1	C	4691	GLN	N-CA-C	5.10	121.09	109.81
1	B	2693	GLN	N-CA-C	-5.10	105.72	111.28
1	A	792	LEU	N-CA-C	5.10	118.42	107.67
1	B	792	LEU	N-CA-C	5.10	118.42	107.67
1	D	792	LEU	N-CA-C	5.10	118.42	107.67
1	B	2709	ALA	N-CA-C	-5.09	105.73	111.28
1	C	2709	ALA	N-CA-C	-5.09	105.73	111.28
1	A	421	PHE	N-CA-C	-5.09	102.32	109.96
1	B	421	PHE	N-CA-C	-5.09	102.32	109.96
1	B	1737	PRO	CA-C-N	-5.09	116.17	123.20
1	B	1737	PRO	C-N-CA	-5.09	116.17	123.20
1	C	421	PHE	N-CA-C	-5.09	102.32	109.96
1	C	1737	PRO	CA-C-N	-5.09	116.17	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1737	PRO	C-N-CA	-5.09	116.17	123.20
1	A	1129	GLY	N-CA-C	-5.09	104.59	113.76
1	B	1129	GLY	N-CA-C	-5.09	104.59	113.76
1	D	1129	GLY	N-CA-C	-5.09	104.59	113.76
1	D	4104	THR	N-CA-C	-5.09	102.75	110.28
1	A	4667	PRO	N-CA-C	-5.09	106.58	113.40
1	B	4667	PRO	N-CA-C	-5.09	106.58	113.40
1	C	1129	GLY	N-CA-C	-5.09	104.61	113.76
1	C	4667	PRO	N-CA-C	-5.09	106.58	113.40
1	A	4691	GLN	N-CA-C	5.08	121.05	109.81
1	B	4691	GLN	N-CA-C	5.08	121.05	109.81
1	A	1737	PRO	CA-C-N	-5.08	116.19	123.20
1	A	1737	PRO	C-N-CA	-5.08	116.19	123.20
1	A	2709	ALA	N-CA-C	-5.08	105.75	111.28
1	B	4997	ASN	N-CA-C	5.08	116.80	108.52
1	D	4691	GLN	N-CA-C	5.08	121.03	109.81
1	A	3904	ARG	N-CA-C	-5.07	105.75	111.28
1	B	3904	ARG	N-CA-C	-5.07	105.75	111.28
1	D	3904	ARG	N-CA-C	-5.07	105.75	111.28
1	C	4997	ASN	N-CA-C	5.07	116.78	108.52
1	A	1549	PHE	CA-C-N	5.07	126.17	119.84
1	A	1549	PHE	C-N-CA	5.07	126.17	119.84
1	A	2693	GLN	N-CA-C	-5.07	105.76	111.28
1	C	3904	ARG	N-CA-C	-5.07	105.76	111.28
1	D	1549	PHE	CA-C-N	5.07	126.17	119.84
1	D	1549	PHE	C-N-CA	5.07	126.17	119.84
1	D	2693	GLN	N-CA-C	-5.07	105.76	111.28
1	A	4104	THR	N-CA-C	-5.07	102.78	110.28
1	A	4557	ARG	N-CA-C	-5.07	105.20	111.33
1	C	4104	THR	N-CA-C	-5.07	102.78	110.28
1	C	4557	ARG	N-CA-C	-5.07	105.20	111.33
1	D	4557	ARG	N-CA-C	-5.07	105.20	111.33
1	B	4104	THR	N-CA-C	-5.06	102.79	110.28
1	D	4997	ASN	N-CA-C	5.06	116.77	108.52
1	B	4557	ARG	N-CA-C	-5.06	105.21	111.33
1	D	2915	GLU	CA-C-N	5.05	127.99	120.31
1	D	2915	GLU	C-N-CA	5.05	127.99	120.31
1	C	1549	PHE	CA-C-N	5.05	126.15	119.84
1	C	1549	PHE	C-N-CA	5.05	126.15	119.84
1	C	1599	MET	N-CA-C	-5.05	101.69	109.52
1	D	2709	ALA	N-CA-C	-5.05	105.78	111.28
1	D	4667	PRO	N-CA-C	-5.05	106.64	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2275	VAL	N-CA-C	-5.04	96.88	111.00
1	A	2275	VAL	N-CA-C	-5.04	96.88	111.00
1	C	2275	VAL	N-CA-C	-5.04	96.88	111.00
1	B	2915	GLU	CA-C-N	5.04	127.97	120.31
1	B	2915	GLU	C-N-CA	5.04	127.97	120.31
1	C	2693	GLN	N-CA-C	-5.04	105.79	111.28
1	B	1549	PHE	CA-C-N	5.04	126.14	119.84
1	B	1549	PHE	C-N-CA	5.04	126.14	119.84
1	B	2275	VAL	N-CA-C	-5.04	96.89	111.00
1	A	1599	MET	N-CA-C	-5.04	101.72	109.52
1	A	499	THR	N-CA-C	5.03	123.67	113.20
1	B	499	THR	N-CA-C	5.03	123.67	113.20
1	C	499	THR	N-CA-C	5.03	123.67	113.20
1	D	499	THR	N-CA-C	5.03	123.67	113.20
1	A	2744	ASN	N-CA-C	-5.03	106.92	113.16
1	C	2744	ASN	N-CA-C	-5.03	106.92	113.16
1	D	2744	ASN	N-CA-C	-5.03	106.92	113.16
1	A	2915	GLU	CA-C-N	5.03	127.96	120.31
1	A	2915	GLU	C-N-CA	5.03	127.96	120.31
1	B	1599	MET	N-CA-C	-5.03	101.72	109.52
1	C	1657	LEU	N-CA-CB	-5.03	102.72	110.16
1	C	2915	GLU	CA-C-N	5.03	127.96	120.31
1	C	2915	GLU	C-N-CA	5.03	127.96	120.31
1	A	2773	ASN	N-CA-C	-5.03	106.74	112.92
1	B	2773	ASN	N-CA-C	-5.03	106.74	112.92
1	C	2773	ASN	N-CA-C	-5.03	106.74	112.92
1	A	4716	TRP	N-CA-CB	5.02	118.97	110.49
1	B	4716	TRP	N-CA-CB	5.02	118.97	110.49
1	C	4716	TRP	N-CA-CB	5.02	118.97	110.49
1	D	1599	MET	N-CA-C	-5.02	101.74	109.52
1	D	4716	TRP	N-CA-CB	5.02	118.97	110.49
1	A	1657	LEU	N-CA-CB	-5.02	102.74	110.16
1	B	1657	LEU	N-CA-CB	-5.02	102.74	110.16
1	D	1657	LEU	N-CA-CB	-5.02	102.74	110.16
1	D	2754	PHE	N-CA-C	-5.02	106.00	111.82
1	A	4889	VAL	N-CA-C	-5.01	105.51	110.62
1	B	4889	VAL	N-CA-C	-5.01	105.51	110.62
1	D	4889	VAL	N-CA-C	-5.01	105.51	110.62
1	B	2744	ASN	N-CA-C	-5.01	106.95	113.16
1	A	3837	GLN	O-C-N	-5.00	117.45	123.06
1	B	3837	GLN	O-C-N	-5.00	117.45	123.06
1	C	3837	GLN	O-C-N	-5.00	117.45	123.06

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	4691	GLN	CA
1	B	4691	GLN	CA
1	C	4691	GLN	CA
1	D	4691	GLN	CA

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	2192	TYR	Mainchain
1	A	2586	VAL	Peptide
1	A	4091	LYS	Peptide
1	B	2192	TYR	Mainchain
1	B	2586	VAL	Peptide
1	B	4091	LYS	Peptide
1	C	2192	TYR	Mainchain
1	C	2586	VAL	Peptide
1	C	4091	LYS	Peptide
1	D	2192	TYR	Mainchain
1	D	2586	VAL	Peptide
1	D	4091	LYS	Peptide

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	18404	0	9774	2137	0
1	B	18404	0	9774	2139	0
1	C	18404	0	9774	2141	0
1	D	18404	0	9774	2144	0
All	All	73616	0	39096	8320	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 74.

All (8320) 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:D:4978:HIS:HE2	1:D:4983:HIS:CD2	1.11	1.67
1:A:4235:VAL:HG21	1:A:5019:TRP:CZ3	1.15	1.67
1:C:4115:SER:HA	1:C:4128:PHE:CZ	1.23	1.66
1:A:4978:HIS:HE2	1:A:4983:HIS:CD2	1.11	1.66
1:B:4978:HIS:HE2	1:B:4983:HIS:CD2	1.11	1.65
1:C:4978:HIS:HE2	1:C:4983:HIS:CD2	1.11	1.65
1:B:4995:LEU:HD11	1:B:5011:TRP:CE3	1.26	1.64
1:B:4235:VAL:HG21	1:B:5019:TRP:CZ3	1.15	1.63
1:B:4115:SER:HA	1:B:4128:PHE:CZ	1.23	1.63
1:C:4995:LEU:HD11	1:C:5011:TRP:CE3	1.26	1.62
1:D:4115:SER:HA	1:D:4128:PHE:CZ	1.23	1.62
1:D:4701:TRP:CH2	1:D:4781:GLY:HA3	1.29	1.62
1:C:4701:TRP:CH2	1:C:4781:GLY:HA3	1.29	1.61
1:B:4701:TRP:CH2	1:B:4781:GLY:HA3	1.29	1.61
1:A:4701:TRP:CH2	1:A:4781:GLY:HA3	1.29	1.61
1:A:4937:ILE:CD1	1:D:4934:GLY:CA	1.76	1.60
1:D:4235:VAL:HG21	1:D:5019:TRP:CZ3	1.15	1.59
1:B:4141:PHE:CZ	1:B:4196:GLU:CB	1.86	1.59
1:A:4115:SER:HA	1:A:4128:PHE:CZ	1.23	1.59
1:C:4235:VAL:HG21	1:C:5019:TRP:CZ3	1.15	1.59
1:A:4559:PHE:HD2	1:A:4661:TYR:CB	1.13	1.58
1:D:4995:LEU:HD11	1:D:5011:TRP:CE3	1.26	1.58
1:A:4937:ILE:HD11	1:D:4934:GLY:CA	1.18	1.57
1:D:4141:PHE:CZ	1:D:4196:GLU:CB	1.86	1.57
1:C:4141:PHE:CZ	1:C:4196:GLU:CB	1.86	1.57
1:A:4696:ASP:CB	1:A:4697:VAL:CG2	1.83	1.56
1:C:721:LEU:CB	1:C:728:ARG:H	1.19	1.56
1:B:721:LEU:CB	1:B:728:ARG:H	1.19	1.56
1:D:4559:PHE:HD2	1:D:4661:TYR:CB	1.13	1.56
1:B:4934:GLY:CA	1:C:4937:ILE:HD11	1.19	1.56
1:B:4934:GLY:CA	1:C:4937:ILE:CD1	1.77	1.55
1:D:1708:ARG:HH12	1:D:1837:GLN:CA	1.20	1.55
1:B:1708:ARG:HH12	1:B:1837:GLN:CA	1.20	1.55
1:C:1708:ARG:HH12	1:C:1837:GLN:CA	1.20	1.55
1:D:721:LEU:CB	1:D:728:ARG:H	1.19	1.55
1:C:4559:PHE:HD2	1:C:4661:TYR:CB	1.13	1.54
1:A:4575:PHE:CE1	1:A:4576:ILE:HD13	1.40	1.54
1:A:721:LEU:CB	1:A:728:ARG:H	1.19	1.54
1:A:4934:GLY:CA	1:B:4937:ILE:CD1	1.85	1.54
1:B:4559:PHE:HD2	1:B:4661:TYR:CB	1.13	1.54
1:B:4575:PHE:CE1	1:B:4576:ILE:HD13	1.40	1.54
1:A:4141:PHE:CZ	1:A:4196:GLU:CB	1.86	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4696:ASP:CB	1:B:4697:VAL:CG2	1.83	1.53
1:D:4696:ASP:CB	1:D:4697:VAL:CG2	1.83	1.53
1:B:4978:HIS:NE2	1:B:4983:HIS:CD2	1.76	1.53
1:B:790:ARG:HA	1:B:1627:ALA:CA	1.37	1.53
1:A:4984:ASN:CB	1:A:4987:ASN:CB	1.84	1.52
1:A:4696:ASP:CB	1:A:4697:VAL:HG22	1.06	1.52
1:D:4696:ASP:CB	1:D:4697:VAL:HG22	1.06	1.52
1:A:4918:ILE:HG13	1:B:4891:VAL:CG2	1.38	1.52
1:B:4934:GLY:HA2	1:C:4937:ILE:CD1	1.34	1.52
1:B:4984:ASN:CB	1:B:4987:ASN:CB	1.87	1.52
1:C:1124:PHE:HB3	1:C:1131:ARG:CB	1.40	1.52
1:A:4995:LEU:HD11	1:A:5011:TRP:CE3	1.44	1.51
1:C:4575:PHE:CE1	1:C:4576:ILE:HD13	1.40	1.51
1:C:4696:ASP:CB	1:C:4697:VAL:HG22	1.06	1.51
1:D:4575:PHE:CE1	1:D:4576:ILE:HD13	1.40	1.51
1:C:4696:ASP:CB	1:C:4697:VAL:CG2	1.83	1.51
1:D:4984:ASN:CB	1:D:4987:ASN:CB	1.87	1.51
1:B:1124:PHE:HB3	1:B:1131:ARG:CB	1.40	1.51
1:C:4984:ASN:CB	1:C:4987:ASN:CB	1.87	1.51
1:D:1124:PHE:HB3	1:D:1131:ARG:CB	1.40	1.51
1:C:790:ARG:HA	1:C:1627:ALA:CA	1.37	1.50
1:B:4696:ASP:CB	1:B:4697:VAL:HG22	1.06	1.50
1:A:1708:ARG:HH12	1:A:1837:GLN:CA	1.20	1.50
1:C:4575:PHE:HE1	1:C:4576:ILE:CD1	1.23	1.50
1:B:3962:PHE:CE2	1:B:4023:MET:HA	1.46	1.49
1:C:4918:ILE:HG13	1:D:4891:VAL:CG2	1.38	1.49
1:D:790:ARG:HA	1:D:1627:ALA:CA	1.37	1.49
1:D:3962:PHE:CE2	1:D:4023:MET:HA	1.46	1.49
1:A:790:ARG:HA	1:A:1627:ALA:CA	1.37	1.49
1:D:4575:PHE:HE1	1:D:4576:ILE:CD1	1.23	1.49
1:D:4978:HIS:NE2	1:D:4983:HIS:CD2	1.76	1.49
1:A:1515:VAL:CB	1:A:1530:THR:H	1.25	1.48
1:A:4891:VAL:CG2	1:D:4918:ILE:HG13	1.39	1.48
1:B:4575:PHE:HE1	1:B:4576:ILE:CD1	1.23	1.48
1:B:4918:ILE:HG13	1:C:4891:VAL:CG2	1.39	1.48
1:C:4235:VAL:CG2	1:C:5019:TRP:CZ3	1.97	1.48
1:A:3962:PHE:CE2	1:A:4023:MET:HA	1.46	1.47
1:B:1515:VAL:CB	1:B:1530:THR:H	1.25	1.47
1:A:1124:PHE:HB3	1:A:1131:ARG:CB	1.40	1.47
1:A:4575:PHE:HE1	1:A:4576:ILE:CD1	1.23	1.47
1:B:4235:VAL:CG2	1:B:5019:TRP:CZ3	1.97	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1515:VAL:CB	1:D:1530:THR:H	1.25	1.47
1:C:1515:VAL:CB	1:C:1530:THR:H	1.25	1.46
1:C:1229:ASN:CB	1:C:1827:ARG:CB	1.94	1.46
1:C:3962:PHE:CE2	1:C:4023:MET:HA	1.46	1.46
1:B:1229:ASN:CB	1:B:1827:ARG:CB	1.94	1.46
1:D:118:LEU:HA	1:D:137:LEU:CB	1.47	1.45
1:D:4235:VAL:CG2	1:D:5019:TRP:CZ3	1.97	1.45
1:A:4937:ILE:CD1	1:D:4934:GLY:HA2	1.33	1.44
1:A:4235:VAL:CG2	1:A:5019:TRP:CZ3	1.97	1.44
1:B:4784:PHE:HA	1:B:4789:PHE:CE2	1.52	1.44
1:A:4784:PHE:HA	1:A:4789:PHE:CE2	1.52	1.44
1:A:1229:ASN:CB	1:A:1827:ARG:CB	1.94	1.43
1:D:4559:PHE:CD2	1:D:4661:TYR:CB	2.01	1.43
1:D:4784:PHE:HA	1:D:4789:PHE:CE2	1.52	1.43
1:C:118:LEU:HA	1:C:137:LEU:CB	1.47	1.43
1:C:4559:PHE:CD2	1:C:4661:TYR:CB	2.01	1.43
1:C:4677:LEU:HD23	1:C:4711:PHE:CZ	1.54	1.43
1:D:1229:ASN:CB	1:D:1827:ARG:CB	1.94	1.43
1:D:4677:LEU:HD23	1:D:4711:PHE:CZ	1.54	1.43
1:C:4978:HIS:NE2	1:C:4983:HIS:CD2	1.76	1.43
1:A:4559:PHE:CD2	1:A:4661:TYR:CB	2.01	1.42
1:B:681:HIS:H	1:B:784:SER:CB	1.31	1.42
1:A:118:LEU:HA	1:A:137:LEU:CB	1.47	1.42
1:A:4934:GLY:CA	1:B:4937:ILE:HD11	1.38	1.42
1:B:4559:PHE:CD2	1:B:4661:TYR:CB	2.01	1.42
1:C:4784:PHE:HA	1:C:4789:PHE:CE2	1.52	1.42
1:A:4677:LEU:HD23	1:A:4711:PHE:CZ	1.54	1.42
1:B:38:ALA:CB	1:B:64:ILE:O	1.68	1.42
1:A:4934:GLY:HA2	1:B:4937:ILE:CD1	1.42	1.41
1:A:38:ALA:CB	1:A:64:ILE:O	1.68	1.41
1:B:4677:LEU:HD23	1:B:4711:PHE:CZ	1.54	1.41
1:B:4995:LEU:CD1	1:B:5011:TRP:CE3	2.03	1.41
1:D:681:HIS:H	1:D:784:SER:CB	1.31	1.41
1:A:681:HIS:H	1:A:784:SER:CB	1.31	1.40
1:C:38:ALA:CB	1:C:64:ILE:O	1.68	1.40
1:C:4995:LEU:CD1	1:C:5011:TRP:CE3	2.03	1.40
1:A:721:LEU:CB	1:A:728:ARG:N	1.85	1.40
1:C:681:HIS:H	1:C:784:SER:CB	1.31	1.40
1:D:38:ALA:CB	1:D:64:ILE:O	1.68	1.40
1:D:3933:PHE:CZ	1:D:3951:PHE:CD2	2.10	1.40
1:A:4918:ILE:HA	1:B:4891:VAL:CG1	1.52	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4978:HIS:CE1	1:C:4983:HIS:NE2	1.90	1.39
1:A:3933:PHE:CZ	1:A:3951:PHE:CD2	2.10	1.39
1:B:118:LEU:HA	1:B:137:LEU:CB	1.47	1.39
1:A:1688:HIS:H	1:A:1689:VAL:CB	1.34	1.39
1:A:4891:VAL:CG1	1:D:4918:ILE:HA	1.53	1.39
1:A:4978:HIS:NE2	1:A:4983:HIS:CD2	1.76	1.39
1:C:73:LEU:O	1:C:105:HIS:CA	1.69	1.39
1:C:1708:ARG:NH1	1:C:1837:GLN:HA	1.06	1.39
1:B:1708:ARG:NH1	1:B:1837:GLN:HA	1.06	1.38
1:B:4978:HIS:CE1	1:B:4983:HIS:NE2	1.90	1.38
1:B:1688:HIS:H	1:B:1689:VAL:CB	1.35	1.38
1:C:1688:HIS:H	1:C:1689:VAL:CB	1.34	1.38
1:C:3933:PHE:CZ	1:C:3951:PHE:CD2	2.10	1.38
1:D:4995:LEU:CD1	1:D:5011:TRP:CE3	2.03	1.38
1:C:4559:PHE:HE1	1:C:4560:TYR:CE1	1.42	1.38
1:D:4559:PHE:HE1	1:D:4560:TYR:CE1	1.42	1.37
1:A:3933:PHE:CZ	1:A:3951:PHE:HD2	1.41	1.37
1:D:1688:HIS:H	1:D:1689:VAL:CB	1.34	1.37
1:A:73:LEU:O	1:A:105:HIS:CA	1.69	1.37
1:D:1708:ARG:NH1	1:D:1837:GLN:HA	1.06	1.37
1:B:73:LEU:O	1:B:105:HIS:CA	1.69	1.37
1:A:4978:HIS:CE1	1:A:4983:HIS:NE2	1.90	1.37
1:B:4559:PHE:HE1	1:B:4560:TYR:CE1	1.42	1.36
1:C:3933:PHE:CZ	1:C:3951:PHE:HD2	1.41	1.36
1:C:4918:ILE:HA	1:D:4891:VAL:CG1	1.51	1.36
1:D:73:LEU:O	1:D:105:HIS:CA	1.69	1.36
1:D:4701:TRP:CH2	1:D:4781:GLY:CA	2.09	1.36
1:A:1297:PHE:CG	1:A:1297:PHE:CA	2.07	1.36
1:A:4559:PHE:HE1	1:A:4560:TYR:CE1	1.42	1.36
1:B:721:LEU:CB	1:B:728:ARG:N	1.85	1.36
1:B:790:ARG:CB	1:B:1627:ALA:HB2	1.54	1.36
1:B:3933:PHE:CZ	1:B:3951:PHE:CD2	2.10	1.36
1:D:721:LEU:CB	1:D:728:ARG:N	1.85	1.36
1:D:3933:PHE:CZ	1:D:3951:PHE:HD2	1.41	1.36
1:D:4235:VAL:HG21	1:D:5019:TRP:CE3	1.59	1.36
1:D:790:ARG:CB	1:D:1627:ALA:HB2	1.54	1.36
1:D:4978:HIS:CE1	1:D:4983:HIS:NE2	1.90	1.36
1:D:4235:VAL:HG11	1:D:5019:TRP:CH2	1.61	1.36
1:A:1124:PHE:HB2	1:A:1130:GLN:C	1.51	1.35
1:B:1124:PHE:HB2	1:B:1130:GLN:C	1.51	1.35
1:B:3962:PHE:HE2	1:B:4023:MET:CA	1.39	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:790:ARG:CB	1:C:1627:ALA:HB2	1.54	1.35
1:A:3962:PHE:HE2	1:A:4023:MET:CA	1.39	1.35
1:A:4235:VAL:HG21	1:A:5019:TRP:CE3	1.59	1.35
1:A:4918:ILE:CA	1:B:4891:VAL:HG11	1.57	1.35
1:B:1297:PHE:CG	1:B:1297:PHE:CA	2.07	1.35
1:B:3933:PHE:CZ	1:B:3951:PHE:HD2	1.41	1.35
1:C:4918:ILE:CA	1:D:4891:VAL:HG11	1.56	1.35
1:D:2902:HIS:CB	1:D:2905:LEU:CB	2.04	1.35
1:B:4701:TRP:CH2	1:B:4781:GLY:CA	2.09	1.35
1:B:4918:ILE:HA	1:C:4891:VAL:CG1	1.53	1.35
1:A:1097:THR:CB	1:A:1145:SER:CB	2.05	1.35
1:B:4235:VAL:HG21	1:B:5019:TRP:CE3	1.59	1.35
1:C:3962:PHE:HE2	1:C:4023:MET:CA	1.39	1.35
1:D:1297:PHE:CG	1:D:1297:PHE:CA	2.07	1.35
1:B:1097:THR:CB	1:B:1145:SER:CB	2.05	1.34
1:B:2902:HIS:CB	1:B:2905:LEU:CB	2.04	1.34
1:C:1124:PHE:HB2	1:C:1130:GLN:C	1.51	1.34
1:C:2902:HIS:CB	1:C:2905:LEU:CB	2.04	1.34
1:C:4235:VAL:HG21	1:C:5019:TRP:CE3	1.59	1.34
1:A:4891:VAL:HG11	1:D:4918:ILE:CA	1.58	1.34
1:B:4575:PHE:CE1	1:B:4576:ILE:CD1	2.01	1.34
1:A:1708:ARG:NH1	1:A:1837:GLN:HA	1.06	1.34
1:A:4575:PHE:CE1	1:A:4576:ILE:CD1	2.01	1.34
1:A:790:ARG:CB	1:A:1627:ALA:HB2	1.54	1.34
1:C:721:LEU:CB	1:C:728:ARG:N	1.85	1.34
1:C:1297:PHE:CG	1:C:1297:PHE:CA	2.07	1.34
1:A:2902:HIS:CB	1:A:2905:LEU:CB	2.04	1.33
1:A:4195:PHE:HE2	1:A:4991:PHE:CB	1.41	1.33
1:B:4235:VAL:HG11	1:B:5019:TRP:CH2	1.61	1.33
1:D:3962:PHE:HE2	1:D:4023:MET:CA	1.39	1.33
1:A:4701:TRP:CH2	1:A:4781:GLY:CA	2.09	1.33
1:C:4701:TRP:CH2	1:C:4781:GLY:CA	2.09	1.33
1:B:4918:ILE:CA	1:C:4891:VAL:HG11	1.58	1.33
1:C:4235:VAL:HG11	1:C:5019:TRP:CH2	1.61	1.33
1:A:4235:VAL:HG11	1:A:5019:TRP:CH2	1.61	1.33
1:C:72:SER:HA	1:C:106:ALA:O	1.28	1.33
1:A:4195:PHE:CE2	1:A:4991:PHE:CB	2.11	1.33
1:A:4195:PHE:CZ	1:A:4991:PHE:HB2	1.63	1.33
1:D:1124:PHE:HB2	1:D:1130:GLN:C	1.51	1.33
1:C:3061:ALA:O	1:C:3064:VAL:CA	1.77	1.32
1:D:72:SER:HA	1:D:106:ALA:O	1.28	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:117:TYR:CD2	1:C:141:ALA:HB2	1.65	1.32
1:A:72:SER:HA	1:A:106:ALA:O	1.28	1.32
1:B:72:SER:HA	1:B:106:ALA:O	1.28	1.32
1:D:1097:THR:CB	1:D:1145:SER:CB	2.05	1.32
1:D:4687:TYR:HA	1:D:4691:GLN:CB	1.57	1.32
1:A:4687:TYR:HA	1:A:4691:GLN:CB	1.57	1.32
1:B:117:TYR:CD2	1:B:141:ALA:HB2	1.65	1.32
1:C:4575:PHE:CE1	1:C:4576:ILE:CD1	2.01	1.32
1:C:4687:TYR:HA	1:C:4691:GLN:CB	1.57	1.32
1:A:4195:PHE:CE2	1:A:4991:PHE:HB2	1.64	1.32
1:B:4687:TYR:HA	1:B:4691:GLN:CA	1.58	1.32
1:D:3061:ALA:O	1:D:3064:VAL:CA	1.77	1.32
1:B:4687:TYR:HA	1:B:4691:GLN:CB	1.57	1.31
1:C:1097:THR:CB	1:C:1145:SER:CB	2.05	1.31
1:D:4687:TYR:HA	1:D:4691:GLN:CA	1.58	1.31
1:A:4687:TYR:HA	1:A:4691:GLN:CA	1.58	1.31
1:B:1288:PHE:O	1:B:1553:PHE:HA	1.13	1.31
1:D:117:TYR:CD2	1:D:141:ALA:HB2	1.65	1.31
1:A:117:TYR:CD2	1:A:141:ALA:HB2	1.65	1.30
1:A:1124:PHE:HB2	1:A:1130:GLN:O	1.31	1.30
1:C:4687:TYR:HA	1:C:4691:GLN:CA	1.58	1.30
1:D:4575:PHE:CE1	1:D:4576:ILE:CD1	2.01	1.30
1:C:459:LEU:CB	1:C:463:GLU:CB	2.10	1.30
1:C:4183:ILE:HG23	1:C:4191:GLU:O	1.15	1.30
1:C:4559:PHE:CE1	1:C:4560:TYR:CE1	2.20	1.30
1:D:4701:TRP:HH2	1:D:4781:GLY:CA	1.44	1.30
1:B:3061:ALA:O	1:B:3064:VAL:CA	1.77	1.30
1:C:1288:PHE:O	1:C:1553:PHE:HA	1.13	1.30
1:A:459:LEU:CB	1:A:463:GLU:CB	2.10	1.29
1:A:3061:ALA:O	1:A:3064:VAL:CA	1.77	1.29
1:B:4559:PHE:CE1	1:B:4560:TYR:CE1	2.20	1.29
1:D:1288:PHE:O	1:D:1553:PHE:HA	1.13	1.29
1:A:4183:ILE:HG23	1:A:4191:GLU:O	1.15	1.29
1:A:4559:PHE:CE1	1:A:4560:TYR:CD1	2.20	1.29
1:C:4701:TRP:HH2	1:C:4781:GLY:CA	1.44	1.29
1:D:459:LEU:CB	1:D:463:GLU:CB	2.10	1.29
1:D:4559:PHE:CE1	1:D:4560:TYR:CE1	2.20	1.29
1:B:4183:ILE:CG2	1:B:4191:GLU:O	1.81	1.29
1:C:118:LEU:CA	1:C:137:LEU:CB	2.07	1.29
1:D:3061:ALA:O	1:D:3064:VAL:HA	1.19	1.29
1:B:118:LEU:HA	1:B:137:LEU:CA	1.62	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4559:PHE:CE1	1:D:4560:TYR:CD1	2.20	1.28
1:A:118:LEU:HA	1:A:137:LEU:CA	1.62	1.28
1:A:4183:ILE:CG2	1:A:4191:GLU:O	1.81	1.28
1:B:459:LEU:CB	1:B:463:GLU:CB	2.10	1.28
1:B:3061:ALA:O	1:B:3064:VAL:HA	1.19	1.28
1:B:4559:PHE:CE1	1:B:4560:TYR:CD1	2.20	1.28
1:C:3061:ALA:O	1:C:3064:VAL:HA	1.19	1.28
1:D:118:LEU:CA	1:D:137:LEU:CB	2.07	1.28
1:B:4235:VAL:CG2	1:B:5019:TRP:HZ3	1.40	1.28
1:D:1124:PHE:CA	1:D:1131:ARG:HA	1.63	1.28
1:A:4956:THR:O	1:A:4964:GLY:O	1.52	1.28
1:C:346:CYS:O	1:C:387:ALA:HA	1.34	1.28
1:C:1124:PHE:CA	1:C:1131:ARG:HA	1.63	1.28
1:C:1515:VAL:CB	1:C:1529:PHE:CB	2.12	1.28
1:C:4559:PHE:CE1	1:C:4560:TYR:CD1	2.20	1.28
1:D:38:ALA:HB1	1:D:64:ILE:O	1.20	1.28
1:A:1124:PHE:CA	1:A:1131:ARG:HA	1.63	1.27
1:C:4183:ILE:CG2	1:C:4191:GLU:O	1.81	1.27
1:A:4559:PHE:CE1	1:A:4560:TYR:CE1	2.20	1.27
1:B:4195:PHE:HE2	1:B:4991:PHE:CB	1.47	1.27
1:C:4195:PHE:HE2	1:C:4991:PHE:CB	1.47	1.27
1:A:4701:TRP:HH2	1:A:4781:GLY:CA	1.44	1.27
1:D:118:LEU:HA	1:D:137:LEU:CA	1.62	1.27
1:A:3061:ALA:O	1:A:3064:VAL:HA	1.19	1.27
1:A:1515:VAL:CB	1:A:1530:THR:N	1.98	1.27
1:C:118:LEU:HA	1:C:137:LEU:CA	1.62	1.27
1:C:4956:THR:O	1:C:4964:GLY:O	1.52	1.27
1:D:1515:VAL:CB	1:D:1529:PHE:CB	2.12	1.27
1:B:346:CYS:O	1:B:387:ALA:HA	1.33	1.26
1:B:4701:TRP:HH2	1:B:4781:GLY:CA	1.44	1.26
1:D:4195:PHE:HE2	1:D:4991:PHE:CB	1.47	1.26
1:B:1124:PHE:CA	1:B:1131:ARG:HA	1.63	1.26
1:B:4956:THR:O	1:B:4964:GLY:O	1.52	1.26
1:D:4183:ILE:CG2	1:D:4191:GLU:O	1.81	1.26
1:B:344:SER:CB	1:B:345:LEU:HA	1.63	1.26
1:B:1515:VAL:CB	1:B:1529:PHE:CB	2.12	1.26
1:B:4183:ILE:HG23	1:B:4191:GLU:O	1.15	1.26
1:A:788:LYS:CB	1:A:1629:GLN:CB	2.14	1.26
1:A:1515:VAL:CB	1:A:1529:PHE:CB	2.12	1.26
1:A:344:SER:CB	1:A:345:LEU:HA	1.63	1.26
1:A:1436:SER:H	1:A:1516:ILE:CB	1.47	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4891:VAL:HG21	1:D:4918:ILE:CG1	1.66	1.26
1:B:4115:SER:CA	1:B:4128:PHE:CZ	2.18	1.26
1:D:4183:ILE:HG23	1:D:4191:GLU:O	1.15	1.26
1:B:4918:ILE:CG1	1:C:4891:VAL:HG21	1.66	1.25
1:D:788:LYS:CB	1:D:1629:GLN:CB	2.14	1.25
1:A:1161:ILE:HA	1:A:1178:ALA:CB	1.66	1.25
1:A:4918:ILE:CG1	1:B:4891:VAL:HG21	1.65	1.25
1:D:4956:THR:O	1:D:4964:GLY:O	1.52	1.25
1:A:1288:PHE:O	1:A:1553:PHE:HA	1.13	1.25
1:B:788:LYS:CB	1:B:1629:GLN:CB	2.14	1.25
1:B:1124:PHE:HB2	1:B:1130:GLN:O	1.31	1.25
1:B:1161:ILE:HA	1:B:1178:ALA:CB	1.66	1.25
1:C:788:LYS:CB	1:C:1629:GLN:CB	2.14	1.25
1:C:4115:SER:CA	1:C:4128:PHE:CZ	2.18	1.25
1:C:4918:ILE:CG1	1:D:4891:VAL:HG21	1.65	1.25
1:D:1436:SER:H	1:D:1516:ILE:CB	1.47	1.25
1:A:4115:SER:CA	1:A:4128:PHE:CZ	2.18	1.25
1:B:2767:ALA:HB1	1:B:2855:TYR:O	1.37	1.25
1:C:38:ALA:HB1	1:C:64:ILE:O	1.20	1.25
1:C:1515:VAL:CB	1:C:1530:THR:N	1.98	1.25
1:D:1124:PHE:HB2	1:D:1130:GLN:O	1.31	1.25
1:B:1515:VAL:CB	1:B:1530:THR:N	1.98	1.25
1:C:1436:SER:H	1:C:1516:ILE:CB	1.47	1.24
1:A:118:LEU:CA	1:A:137:LEU:CB	2.07	1.24
1:A:4921:PHE:O	1:A:4925:ILE:HD11	1.35	1.24
1:B:38:ALA:HB1	1:B:64:ILE:O	1.20	1.24
1:B:1436:SER:H	1:B:1516:ILE:CB	1.47	1.24
1:D:1688:HIS:N	1:D:1689:VAL:CB	2.00	1.24
1:D:4115:SER:CA	1:D:4128:PHE:CZ	2.18	1.24
1:A:346:CYS:O	1:A:387:ALA:HA	1.33	1.24
1:C:790:ARG:CA	1:C:1627:ALA:HA	1.68	1.24
1:B:118:LEU:CA	1:B:137:LEU:CB	2.07	1.24
1:C:4921:PHE:O	1:C:4925:ILE:HD11	1.35	1.24
1:D:790:ARG:CA	1:D:1627:ALA:HA	1.68	1.24
1:D:1515:VAL:CB	1:D:1530:THR:N	1.98	1.24
1:A:4940:PHE:HE2	1:D:4935:LEU:CD2	1.51	1.23
1:A:4995:LEU:CD1	1:A:5011:TRP:CE3	2.20	1.23
1:B:4995:LEU:CD1	1:B:5011:TRP:HE3	1.42	1.23
1:C:1161:ILE:HA	1:C:1178:ALA:CB	1.66	1.23
1:B:4935:LEU:CD2	1:C:4940:PHE:HE2	1.48	1.23
1:D:1161:ILE:HA	1:D:1178:ALA:CB	1.66	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:ALA:HB1	1:A:64:ILE:O	1.20	1.23
1:B:4935:LEU:CD2	1:C:4940:PHE:CE2	2.22	1.23
1:D:346:CYS:O	1:D:387:ALA:HA	1.33	1.23
1:A:1688:HIS:N	1:A:1689:VAL:CB	2.00	1.23
1:D:4195:PHE:CE2	1:D:4991:PHE:CB	2.22	1.23
1:C:73:LEU:O	1:C:105:HIS:HA	1.04	1.22
1:C:1688:HIS:N	1:C:1689:VAL:CB	2.00	1.22
1:C:4235:VAL:CG2	1:C:5019:TRP:HZ3	1.40	1.22
1:B:1582:SER:CB	1:B:1589:PRO:CB	2.18	1.22
1:C:2767:ALA:HB1	1:C:2855:TYR:O	1.37	1.22
1:C:4195:PHE:CE2	1:C:4991:PHE:CB	2.22	1.22
1:A:790:ARG:CA	1:A:1627:ALA:HA	1.68	1.22
1:B:790:ARG:CA	1:B:1627:ALA:HA	1.68	1.22
1:B:1688:HIS:N	1:B:1689:VAL:CB	2.00	1.22
1:C:1124:PHE:HB2	1:C:1130:GLN:O	1.31	1.22
1:A:1287:LEU:CB	1:A:1554:VAL:N	2.03	1.22
1:A:4235:VAL:CG2	1:A:5019:TRP:HZ3	1.40	1.22
1:A:4937:ILE:HD11	1:D:4934:GLY:N	1.54	1.22
1:A:73:LEU:O	1:A:105:HIS:HA	1.04	1.21
1:B:4195:PHE:CE2	1:B:4991:PHE:CB	2.22	1.21
1:C:681:HIS:N	1:C:784:SER:CB	2.03	1.21
1:A:1582:SER:CB	1:A:1589:PRO:CB	2.18	1.21
1:C:344:SER:CB	1:C:345:LEU:HA	1.63	1.21
1:C:1582:SER:CB	1:C:1589:PRO:CB	2.18	1.21
1:D:2767:ALA:HB1	1:D:2855:TYR:O	1.37	1.21
1:A:681:HIS:N	1:A:784:SER:CB	2.03	1.21
1:A:2767:ALA:HB1	1:A:2855:TYR:O	1.37	1.21
1:D:1287:LEU:CB	1:D:1554:VAL:N	2.03	1.21
1:D:1582:SER:CB	1:D:1589:PRO:CB	2.18	1.21
1:B:1239:SER:CA	1:B:1608:MET:CB	2.19	1.21
1:B:4921:PHE:O	1:B:4925:ILE:HD11	1.35	1.21
1:B:4935:LEU:HD22	1:C:4940:PHE:CE2	1.74	1.21
1:D:681:HIS:N	1:D:784:SER:CB	2.03	1.21
1:A:1239:SER:CA	1:A:1608:MET:CB	2.19	1.20
1:A:4104:THR:O	1:A:4108:ILE:HG23	1.40	1.20
1:B:1287:LEU:CB	1:B:1554:VAL:N	2.03	1.20
1:C:612:VAL:CB	1:C:2169:GLN:N	2.04	1.20
1:C:1287:LEU:CB	1:C:1554:VAL:N	2.03	1.20
1:C:4995:LEU:CD1	1:C:5011:TRP:HE3	1.42	1.20
1:D:73:LEU:O	1:D:105:HIS:HA	1.04	1.20
1:D:4701:TRP:CZ2	1:D:4781:GLY:HA3	1.77	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4940:PHE:CE2	1:D:4935:LEU:CD2	2.24	1.20
1:D:4921:PHE:O	1:D:4925:ILE:HD11	1.35	1.20
1:D:4995:LEU:CD1	1:D:5011:TRP:HE3	1.42	1.20
1:A:612:VAL:CB	1:A:2169:GLN:N	2.04	1.20
1:B:681:HIS:N	1:B:784:SER:CB	2.03	1.20
1:B:1436:SER:N	1:B:1516:ILE:CB	2.05	1.20
1:C:4104:THR:O	1:C:4108:ILE:HG23	1.40	1.20
1:A:1124:PHE:CB	1:A:1131:ARG:CA	2.20	1.19
1:A:4701:TRP:CZ2	1:A:4781:GLY:HA3	1.77	1.19
1:A:4687:TYR:HA	1:A:4691:GLN:HA	1.24	1.19
1:A:4940:PHE:CE2	1:D:4935:LEU:HD22	1.76	1.19
1:B:612:VAL:CB	1:B:2169:GLN:N	2.04	1.19
1:C:1436:SER:N	1:C:1516:ILE:CB	2.05	1.19
1:D:612:VAL:CB	1:D:2169:GLN:N	2.04	1.19
1:D:1239:SER:CA	1:D:1608:MET:CB	2.19	1.19
1:D:4235:VAL:CG2	1:D:5019:TRP:HZ3	1.40	1.19
1:B:1229:ASN:HA	1:B:1826:ALA:O	1.03	1.19
1:B:4934:GLY:N	1:C:4937:ILE:HD11	1.55	1.19
1:C:1124:PHE:CB	1:C:1131:ARG:CA	2.20	1.19
1:C:1239:SER:CA	1:C:1608:MET:CB	2.19	1.19
1:C:1290:ARG:C	1:C:1551:ALA:HB2	1.67	1.19
1:A:1229:ASN:HA	1:A:1826:ALA:O	1.03	1.19
1:C:4195:PHE:CE2	1:C:4991:PHE:HB2	1.77	1.19
1:D:4104:THR:O	1:D:4108:ILE:HG23	1.40	1.19
1:A:20:VAL:O	1:A:67:PHE:CB	1.91	1.18
1:A:4141:PHE:HA	1:A:4174:PHE:CD2	1.78	1.18
1:C:4687:TYR:HA	1:C:4691:GLN:HA	1.24	1.18
1:B:1124:PHE:CB	1:B:1131:ARG:CA	2.20	1.18
1:B:4195:PHE:CE2	1:B:4991:PHE:HB2	1.77	1.18
1:D:1290:ARG:C	1:D:1551:ALA:HB2	1.67	1.18
1:D:4141:PHE:HA	1:D:4174:PHE:CD2	1.78	1.18
1:A:1436:SER:N	1:A:1516:ILE:CB	2.05	1.18
1:A:3935:TRP:HE1	1:D:77:ALA:CB	1.56	1.18
1:D:344:SER:CB	1:D:345:LEU:HA	1.63	1.18
1:A:4930:ALA:HB1	1:B:4936:ILE:HG21	1.20	1.18
1:B:73:LEU:O	1:B:105:HIS:HA	1.04	1.18
1:D:1124:PHE:CB	1:D:1131:ARG:CA	2.20	1.18
1:A:4934:GLY:HA3	1:B:4937:ILE:CD1	1.69	1.18
1:C:20:VAL:O	1:C:67:PHE:CB	1.91	1.18
1:A:77:ALA:CB	1:B:3935:TRP:HE1	1.57	1.17
1:C:4701:TRP:CZ2	1:C:4781:GLY:HA3	1.77	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:77:ALA:CB	1:D:3935:TRP:HE1	1.56	1.17
1:C:665:GLU:O	1:C:792:LEU:CB	1.93	1.17
1:C:875:ALA:CB	1:C:925:SER:CB	2.22	1.17
1:C:1229:ASN:HA	1:C:1826:ALA:O	1.03	1.17
1:D:665:GLU:O	1:D:792:LEU:CB	1.93	1.17
1:D:1436:SER:N	1:D:1516:ILE:CB	2.05	1.17
1:A:4141:PHE:HA	1:A:4174:PHE:CE2	1.80	1.17
1:B:1290:ARG:C	1:B:1551:ALA:HB2	1.67	1.17
1:B:4784:PHE:HA	1:B:4789:PHE:CZ	1.79	1.17
1:D:1229:ASN:HA	1:D:1826:ALA:O	1.03	1.17
1:B:4687:TYR:HA	1:B:4691:GLN:HA	1.24	1.17
1:C:685:GLY:HA3	1:C:713:SER:HA	1.22	1.17
1:D:1124:PHE:HB3	1:D:1131:ARG:CA	1.74	1.17
1:D:4195:PHE:CE2	1:D:4991:PHE:HB2	1.77	1.17
1:D:4687:TYR:HA	1:D:4691:GLN:HA	1.24	1.17
1:B:685:GLY:HA3	1:B:713:SER:HA	1.22	1.17
1:C:1124:PHE:HB3	1:C:1131:ARG:CA	1.74	1.17
1:D:20:VAL:O	1:D:67:PHE:CB	1.91	1.17
1:A:1290:ARG:C	1:A:1551:ALA:HB2	1.67	1.16
1:B:77:ALA:CB	1:C:3935:TRP:HE1	1.57	1.16
1:B:665:GLU:O	1:B:792:LEU:CB	1.93	1.16
1:B:4115:SER:CA	1:B:4128:PHE:HZ	1.56	1.16
1:B:4141:PHE:HA	1:B:4174:PHE:CD2	1.78	1.16
1:C:1161:ILE:HA	1:C:1178:ALA:HB2	1.19	1.16
1:C:4141:PHE:HA	1:C:4174:PHE:CD2	1.78	1.16
1:D:4141:PHE:HA	1:D:4174:PHE:CE2	1.80	1.16
1:B:20:VAL:O	1:B:67:PHE:CB	1.91	1.16
1:B:4701:TRP:CZ2	1:B:4781:GLY:HA3	1.77	1.16
1:C:612:VAL:CB	1:C:2168:VAL:C	2.18	1.16
1:C:4115:SER:CA	1:C:4128:PHE:HZ	1.56	1.16
1:C:4784:PHE:HA	1:C:4789:PHE:CZ	1.79	1.16
1:A:4784:PHE:HA	1:A:4789:PHE:CZ	1.79	1.16
1:B:1239:SER:O	1:B:1608:MET:CB	1.94	1.16
1:B:4141:PHE:HA	1:B:4174:PHE:CE2	1.80	1.16
1:C:2536:LEU:O	1:C:2541:PHE:CA	1.94	1.16
1:D:612:VAL:CB	1:D:2168:VAL:C	2.18	1.16
1:D:4784:PHE:HA	1:D:4789:PHE:CZ	1.79	1.16
1:A:612:VAL:CB	1:A:2168:VAL:C	2.18	1.16
1:A:875:ALA:CB	1:A:925:SER:CB	2.22	1.16
1:B:875:ALA:CB	1:B:925:SER:CB	2.22	1.16
1:B:2536:LEU:O	1:B:2541:PHE:CA	1.94	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:292:ALA:C	1:D:311:ALA:HB1	1.71	1.16
1:D:1239:SER:O	1:D:1608:MET:CB	1.94	1.16
1:B:612:VAL:CB	1:B:2168:VAL:C	2.18	1.16
1:B:1124:PHE:HB3	1:B:1131:ARG:CA	1.74	1.16
1:B:4559:PHE:CD1	1:B:4560:TYR:HD1	1.64	1.16
1:B:4784:PHE:CA	1:B:4789:PHE:CE2	2.28	1.16
1:A:292:ALA:C	1:A:311:ALA:HB1	1.71	1.15
1:A:1124:PHE:HB3	1:A:1131:ARG:CA	1.74	1.15
1:C:292:ALA:C	1:C:311:ALA:HB1	1.71	1.15
1:C:4141:PHE:HA	1:C:4174:PHE:CE2	1.80	1.15
1:C:4971:THR:HG23	1:C:4974:GLY:HA3	1.28	1.15
1:D:103:TYR:CB	1:D:152:PRO:CB	2.24	1.15
1:D:875:ALA:CB	1:D:925:SER:CB	2.22	1.15
1:A:665:GLU:O	1:A:792:LEU:CB	1.93	1.15
1:A:4195:PHE:HE2	1:A:4991:PHE:CG	1.63	1.15
1:A:1239:SER:O	1:A:1608:MET:CB	1.94	1.15
1:A:4784:PHE:CA	1:A:4789:PHE:CE2	2.28	1.15
1:B:292:ALA:C	1:B:311:ALA:HB1	1.71	1.15
1:C:242:ARG:O	1:C:300:VAL:CB	1.94	1.15
1:C:4784:PHE:CA	1:C:4789:PHE:CE2	2.28	1.15
1:A:4934:GLY:N	1:B:4937:ILE:HD11	1.62	1.15
1:B:242:ARG:O	1:B:300:VAL:CB	1.94	1.15
1:B:4104:THR:O	1:B:4108:ILE:HG23	1.40	1.15
1:D:4784:PHE:CA	1:D:4789:PHE:CE2	2.28	1.15
1:A:103:TYR:CB	1:A:152:PRO:CB	2.24	1.15
1:A:788:LYS:HA	1:A:1629:GLN:HA	1.18	1.15
1:A:4559:PHE:CD1	1:A:4560:TYR:HD1	1.64	1.14
1:C:103:TYR:CB	1:C:152:PRO:CB	2.24	1.14
1:C:4195:PHE:CZ	1:C:4991:PHE:HB2	1.82	1.14
1:D:4559:PHE:CD1	1:D:4560:TYR:HD1	1.64	1.14
1:A:495:ASN:O	1:A:498:THR:CB	1.95	1.14
1:A:2536:LEU:O	1:A:2541:PHE:CA	1.94	1.14
1:B:788:LYS:HA	1:B:1629:GLN:HA	1.18	1.14
1:D:4195:PHE:CZ	1:D:4991:PHE:HB2	1.82	1.14
1:A:4575:PHE:HE1	1:A:4576:ILE:HD11	1.08	1.14
1:B:495:ASN:O	1:B:498:THR:CB	1.95	1.14
1:C:4559:PHE:CD1	1:C:4560:TYR:HD1	1.64	1.14
1:A:500:ALA:HB1	1:A:515:TRP:CH2	1.83	1.14
1:C:495:ASN:O	1:C:498:THR:CB	1.95	1.14
1:C:4141:PHE:N	1:C:4174:PHE:HE2	1.45	1.14
1:D:242:ARG:O	1:D:300:VAL:CB	1.94	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:495:ASN:O	1:D:498:THR:CB	1.95	1.14
1:D:500:ALA:HB1	1:D:515:TRP:CH2	1.83	1.14
1:A:685:GLY:HA3	1:A:713:SER:HA	1.22	1.14
1:A:4115:SER:CA	1:A:4128:PHE:HZ	1.56	1.14
1:A:4696:ASP:CA	1:A:4697:VAL:HG22	1.77	1.14
1:B:103:TYR:CB	1:B:152:PRO:CB	2.24	1.14
1:C:1239:SER:O	1:C:1608:MET:CB	1.94	1.14
1:D:1085:SER:HA	1:D:1155:LEU:CB	1.77	1.14
1:D:2536:LEU:O	1:D:2541:PHE:CA	1.94	1.14
1:A:27:THR:HA	1:A:32:GLN:HA	1.30	1.13
1:A:77:ALA:HA	1:B:3935:TRP:CD1	1.83	1.13
1:A:242:ARG:O	1:A:300:VAL:CB	1.94	1.13
1:B:500:ALA:HB1	1:B:515:TRP:CH2	1.83	1.13
1:B:1085:SER:HA	1:B:1155:LEU:CB	1.77	1.13
1:C:500:ALA:HB1	1:C:515:TRP:CH2	1.83	1.13
1:C:1085:SER:HA	1:C:1155:LEU:CB	1.77	1.13
1:C:4141:PHE:CA	1:C:4174:PHE:HE2	1.60	1.13
1:D:4115:SER:CA	1:D:4128:PHE:HZ	1.56	1.13
1:B:4141:PHE:CA	1:B:4174:PHE:CE2	2.32	1.13
1:B:4195:PHE:CZ	1:B:4991:PHE:HB2	1.82	1.13
1:C:4930:ALA:HB1	1:D:4936:ILE:HG21	1.20	1.13
1:D:1689:VAL:O	1:D:1693:GLN:CB	1.97	1.13
1:D:4141:PHE:N	1:D:4174:PHE:HE2	1.45	1.13
1:D:4696:ASP:CA	1:D:4697:VAL:HG22	1.77	1.13
1:D:4971:THR:HG23	1:D:4974:GLY:HA3	1.29	1.13
1:A:1085:SER:HA	1:A:1155:LEU:CB	1.77	1.13
1:A:4141:PHE:N	1:A:4174:PHE:HE2	1.45	1.13
1:B:4141:PHE:CA	1:B:4174:PHE:HE2	1.60	1.13
1:C:4141:PHE:CA	1:C:4174:PHE:CE2	2.32	1.13
1:A:4559:PHE:HE1	1:A:4560:TYR:CD1	1.62	1.13
1:B:1161:ILE:HA	1:B:1178:ALA:HB2	1.19	1.13
1:B:1515:VAL:C	1:B:1529:PHE:CB	2.22	1.13
1:B:3114:LYS:HA	1:B:3174:SER:CB	1.78	1.13
1:C:1273:ALA:HB1	1:C:1274:HIS:HA	1.31	1.13
1:C:1515:VAL:C	1:C:1529:PHE:CB	2.22	1.13
1:D:488:LEU:HA	1:D:491:ILE:CB	1.79	1.13
1:D:1515:VAL:C	1:D:1529:PHE:CB	2.22	1.13
1:D:2243:SER:CB	1:D:2246:ASN:CB	2.27	1.13
1:D:3114:LYS:HA	1:D:3174:SER:CB	1.78	1.13
1:D:4141:PHE:CA	1:D:4174:PHE:HE2	1.60	1.13
1:D:4921:PHE:O	1:D:4925:ILE:CD1	1.97	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4957:LYS:HA	1:D:4964:GLY:HA3	1.16	1.13
1:C:2243:SER:CB	1:C:2246:ASN:CB	2.27	1.13
1:C:4559:PHE:CD1	1:C:4560:TYR:CD1	2.37	1.13
1:A:1689:VAL:O	1:A:1693:GLN:CB	1.97	1.12
1:A:2243:SER:CB	1:A:2246:ASN:CB	2.27	1.12
1:D:318:VAL:C	1:D:346:CYS:CB	2.22	1.12
1:A:1161:ILE:HA	1:A:1178:ALA:HB2	1.19	1.12
1:B:4141:PHE:N	1:B:4174:PHE:HE2	1.45	1.12
1:B:4921:PHE:O	1:B:4925:ILE:CD1	1.97	1.12
1:C:39:ALA:HB2	1:C:47:CYS:CB	1.79	1.12
1:C:318:VAL:C	1:C:346:CYS:CB	2.22	1.12
1:D:685:GLY:HA3	1:D:713:SER:HA	1.22	1.12
1:D:1273:ALA:HB1	1:D:1274:HIS:HA	1.31	1.12
1:D:4575:PHE:HE1	1:D:4576:ILE:HD11	1.08	1.12
1:A:1124:PHE:HA	1:A:1131:ARG:HA	1.19	1.12
1:A:1515:VAL:C	1:A:1529:PHE:CB	2.22	1.12
1:A:4921:PHE:O	1:A:4925:ILE:CD1	1.97	1.12
1:B:488:LEU:HA	1:B:491:ILE:CB	1.79	1.12
1:B:4559:PHE:HE1	1:B:4560:TYR:CD1	1.62	1.12
1:B:4696:ASP:CA	1:B:4697:VAL:HG22	1.77	1.12
1:C:77:ALA:HA	1:D:3935:TRP:CD1	1.85	1.12
1:C:4696:ASP:CA	1:C:4697:VAL:HG22	1.77	1.12
1:A:318:VAL:C	1:A:346:CYS:CB	2.22	1.12
1:A:4141:PHE:CA	1:A:4174:PHE:CE2	2.32	1.12
1:B:1689:VAL:O	1:B:1693:GLN:CB	1.97	1.12
1:B:4914:VAL:HG23	1:C:4888:TYR:HD2	1.06	1.12
1:C:4183:ILE:HG23	1:C:4191:GLU:C	1.75	1.12
1:D:4183:ILE:HG23	1:D:4191:GLU:C	1.75	1.12
1:A:3114:LYS:HA	1:A:3174:SER:CB	1.78	1.12
1:B:318:VAL:C	1:B:346:CYS:CB	2.22	1.12
1:B:4575:PHE:HE1	1:B:4576:ILE:HD11	1.08	1.12
1:C:1116:GLY:O	1:C:1132:TRP:CB	1.98	1.12
1:C:1689:VAL:O	1:C:1693:GLN:CB	1.97	1.12
1:D:1161:ILE:HA	1:D:1178:ALA:HB2	1.19	1.12
1:A:292:ALA:C	1:A:311:ALA:CB	2.23	1.11
1:A:3935:TRP:CD1	1:D:77:ALA:HA	1.85	1.11
1:A:4183:ILE:HG23	1:A:4191:GLU:C	1.75	1.11
1:B:1239:SER:C	1:B:1608:MET:CB	2.23	1.11
1:D:292:ALA:C	1:D:311:ALA:CB	2.23	1.11
1:D:1239:SER:C	1:D:1608:MET:CB	2.23	1.11
1:D:4141:PHE:CA	1:D:4174:PHE:CE2	2.32	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4559:PHE:HE1	1:D:4560:TYR:CD1	1.62	1.11
1:A:488:LEU:HA	1:A:491:ILE:CB	1.79	1.11
1:A:4141:PHE:CA	1:A:4174:PHE:HE2	1.60	1.11
1:B:4197:ILE:HD11	1:B:4990:PHE:CD2	1.86	1.11
1:C:1239:SER:C	1:C:1608:MET:CB	2.24	1.11
1:C:788:LYS:HA	1:C:1629:GLN:HA	1.18	1.11
1:C:4559:PHE:HE1	1:C:4560:TYR:CD1	1.62	1.11
1:C:4914:VAL:HG23	1:D:4888:TYR:CD2	1.85	1.11
1:C:4921:PHE:O	1:C:4925:ILE:CD1	1.97	1.11
1:B:77:ALA:HA	1:C:3935:TRP:CD1	1.85	1.11
1:B:918:ARG:HA	1:B:921:ASN:H	0.96	1.11
1:B:1116:GLY:O	1:B:1132:TRP:CB	1.98	1.11
1:B:2243:SER:CB	1:B:2246:ASN:CB	2.27	1.11
1:C:3114:LYS:HA	1:C:3174:SER:CB	1.78	1.11
1:A:4971:THR:HG23	1:A:4974:GLY:HA3	1.28	1.11
1:B:2274:ASP:HA	1:B:2277:ALA:H	0.97	1.11
1:C:488:LEU:HA	1:C:491:ILE:CB	1.79	1.11
1:C:4934:GLY:HA2	1:D:4937:ILE:HD12	1.29	1.11
1:D:790:ARG:CA	1:D:1627:ALA:CB	2.29	1.11
1:A:1239:SER:C	1:A:1608:MET:CB	2.23	1.10
1:A:4195:PHE:CE2	1:A:4991:PHE:CD2	2.39	1.10
1:B:292:ALA:C	1:B:311:ALA:CB	2.23	1.10
1:C:4197:ILE:HD11	1:C:4990:PHE:CD2	1.86	1.10
1:D:39:ALA:HB2	1:D:47:CYS:CB	1.79	1.10
1:A:1229:ASN:CA	1:A:1826:ALA:O	2.00	1.10
1:B:39:ALA:HB2	1:B:47:CYS:CB	1.79	1.10
1:B:4971:THR:HG23	1:B:4974:GLY:HA3	1.29	1.10
1:C:4677:LEU:CD2	1:C:4711:PHE:HZ	1.64	1.10
1:D:4559:PHE:CD1	1:D:4560:TYR:CD1	2.37	1.10
1:A:918:ARG:HA	1:A:921:ASN:H	0.96	1.10
1:B:4183:ILE:HG23	1:B:4191:GLU:C	1.75	1.10
1:C:4914:VAL:HG23	1:D:4888:TYR:HD2	1.05	1.10
1:D:918:ARG:HA	1:D:921:ASN:H	0.96	1.10
1:D:4677:LEU:CD2	1:D:4711:PHE:HZ	1.64	1.10
1:D:4696:ASP:HA	1:D:4697:VAL:HG13	1.33	1.10
1:A:39:ALA:HB2	1:A:47:CYS:CB	1.79	1.10
1:A:1116:GLY:O	1:A:1132:TRP:CB	1.98	1.10
1:A:4888:TYR:HD2	1:D:4914:VAL:HG23	1.06	1.10
1:C:292:ALA:C	1:C:311:ALA:CB	2.23	1.10
1:C:4957:LYS:HA	1:C:4964:GLY:HA3	1.16	1.10
1:D:1116:GLY:O	1:D:1132:TRP:CB	1.98	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:790:ARG:CA	1:A:1627:ALA:CB	2.29	1.10
1:B:790:ARG:CA	1:B:1627:ALA:CB	2.29	1.10
1:B:4559:PHE:CD1	1:B:4560:TYR:CD1	2.37	1.10
1:C:790:ARG:CA	1:C:1627:ALA:CB	2.29	1.10
1:C:1229:ASN:CA	1:C:1826:ALA:O	2.00	1.10
1:D:4197:ILE:HD11	1:D:4990:PHE:CD2	1.86	1.10
1:A:4696:ASP:HA	1:A:4697:VAL:HG13	1.33	1.09
1:C:3840:SER:CB	1:C:3877:ASP:O	2.00	1.09
1:C:4575:PHE:HE1	1:C:4576:ILE:HD11	1.08	1.09
1:D:1229:ASN:CA	1:D:1826:ALA:O	2.00	1.09
1:A:4914:VAL:HG23	1:B:4888:TYR:CD2	1.85	1.09
1:A:5017:ARG:HB2	1:A:5019:TRP:HE1	1.14	1.09
1:B:4914:VAL:HG23	1:C:4888:TYR:CD2	1.86	1.09
1:B:5017:ARG:HB2	1:B:5019:TRP:HE1	1.14	1.09
1:C:1124:PHE:CB	1:C:1131:ARG:HA	1.82	1.09
1:C:2274:ASP:HA	1:C:2277:ALA:H	0.97	1.09
1:D:27:THR:HA	1:D:32:GLN:HA	1.30	1.09
1:A:4937:ILE:CD1	1:D:4934:GLY:HA3	1.62	1.09
1:D:788:LYS:HA	1:D:1629:GLN:HA	1.18	1.09
1:D:2274:ASP:HA	1:D:2277:ALA:H	0.97	1.09
1:D:3840:SER:CB	1:D:3877:ASP:O	2.00	1.09
1:D:3896:ASN:CB	1:D:3899:PHE:CB	2.31	1.09
1:B:27:THR:HA	1:B:32:GLN:HA	1.30	1.09
1:B:4957:LYS:HA	1:B:4964:GLY:HA3	1.16	1.09
1:D:1440:PHE:CB	1:D:1512:THR:CB	2.31	1.09
1:C:790:ARG:HA	1:C:1627:ALA:CB	1.83	1.09
1:C:1124:PHE:HA	1:C:1131:ARG:HA	1.19	1.09
1:C:3896:ASN:CB	1:C:3899:PHE:CB	2.31	1.09
1:D:4036:VAL:O	1:D:4154:VAL:HG22	1.53	1.09
1:A:790:ARG:HA	1:A:1627:ALA:CB	1.83	1.08
1:A:1436:SER:CA	1:A:1516:ILE:CB	2.31	1.08
1:A:3840:SER:CB	1:A:3877:ASP:O	2.00	1.08
1:A:4888:TYR:CD2	1:D:4914:VAL:HG23	1.86	1.08
1:B:1229:ASN:CA	1:B:1826:ALA:O	2.00	1.08
1:A:4559:PHE:CD1	1:A:4560:TYR:CD1	2.37	1.08
1:A:4931:ILE:O	1:A:4935:LEU:HG	1.52	1.08
1:A:4934:GLY:HA2	1:B:4937:ILE:HD12	1.10	1.08
1:B:790:ARG:HA	1:B:1627:ALA:CB	1.83	1.08
1:B:3896:ASN:CB	1:B:3899:PHE:CB	2.31	1.08
1:B:4677:LEU:CD2	1:B:4711:PHE:HZ	1.64	1.08
1:C:1440:PHE:CB	1:C:1512:THR:CB	2.31	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4036:VAL:O	1:C:4154:VAL:HG22	1.53	1.08
1:A:4957:LYS:HA	1:A:4964:GLY:HA3	1.16	1.08
1:B:71:GLN:O	1:B:106:ALA:O	1.71	1.08
1:C:1436:SER:CA	1:C:1516:ILE:CB	2.31	1.08
1:A:4677:LEU:CD2	1:A:4711:PHE:HZ	1.64	1.08
1:A:4914:VAL:HG23	1:B:4888:TYR:HD2	1.05	1.08
1:B:4968:PHE:HB3	1:B:4975:PHE:HA	1.34	1.08
1:C:4555:LEU:HA	1:C:4558:ASN:CB	1.84	1.08
1:D:71:GLN:O	1:D:106:ALA:O	1.71	1.08
1:D:639:ASN:HA	1:D:1634:LEU:O	1.53	1.08
1:A:1273:ALA:HB1	1:A:1274:HIS:HA	1.31	1.08
1:A:1440:PHE:CB	1:A:1512:THR:CB	2.31	1.08
1:A:3896:ASN:CB	1:A:3899:PHE:CB	2.31	1.08
1:B:3840:SER:CB	1:B:3877:ASP:O	2.00	1.08
1:B:4555:LEU:HA	1:B:4558:ASN:CB	1.84	1.08
1:D:4555:LEU:HA	1:D:4558:ASN:CB	1.84	1.08
1:D:4776:GLN:HE21	1:D:4776:GLN:HA	1.18	1.08
1:A:2274:ASP:HA	1:A:2277:ALA:H	0.97	1.07
1:A:4036:VAL:O	1:A:4154:VAL:HG22	1.53	1.07
1:B:639:ASN:HA	1:B:1634:LEU:O	1.53	1.07
1:B:1273:ALA:HB1	1:B:1274:HIS:HA	1.31	1.07
1:B:4832:HIS:ND1	1:B:4833:ASN:OD1	1.88	1.07
1:D:1124:PHE:CB	1:D:1131:ARG:HA	1.82	1.07
1:A:4832:HIS:ND1	1:A:4833:ASN:OD1	1.87	1.07
1:A:4940:PHE:HE2	1:D:4935:LEU:HD22	0.93	1.07
1:A:4978:HIS:CE1	1:A:4983:HIS:CD2	2.39	1.07
1:B:1288:PHE:HA	1:B:1553:PHE:CB	1.84	1.07
1:B:1436:SER:CA	1:B:1516:ILE:CB	2.31	1.07
1:B:1440:PHE:CB	1:B:1512:THR:CB	2.31	1.07
1:C:4931:ILE:O	1:C:4935:LEU:HG	1.53	1.07
1:D:4995:LEU:CD1	1:D:5011:TRP:CZ3	2.38	1.07
1:A:4555:LEU:HA	1:A:4558:ASN:CB	1.84	1.07
1:B:1095:VAL:H	1:B:1200:GLY:HA2	1.19	1.07
1:B:4195:PHE:HE2	1:B:4991:PHE:CG	1.72	1.07
1:B:4934:GLY:HA2	1:C:4937:ILE:HD12	1.13	1.07
1:C:71:GLN:O	1:C:106:ALA:O	1.71	1.07
1:D:790:ARG:HA	1:D:1627:ALA:CB	1.83	1.07
1:D:1124:PHE:HA	1:D:1131:ARG:HA	1.19	1.07
1:D:1436:SER:CA	1:D:1516:ILE:CB	2.31	1.07
1:C:27:THR:HA	1:C:32:GLN:HA	1.30	1.07
1:C:151:HIS:O	1:C:153:ALA:N	1.88	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1288:PHE:C	1:C:1553:PHE:HA	1.79	1.07
1:D:1288:PHE:C	1:D:1553:PHE:HA	1.79	1.07
1:B:4036:VAL:O	1:B:4154:VAL:HG22	1.53	1.07
1:B:4930:ALA:HB1	1:C:4936:ILE:HG21	1.34	1.07
1:A:4776:GLN:HA	1:A:4776:GLN:HE21	1.18	1.06
1:B:1124:PHE:HA	1:B:1131:ARG:HA	1.19	1.06
1:B:4995:LEU:CD1	1:B:5011:TRP:CZ3	2.38	1.06
1:C:918:ARG:HA	1:C:921:ASN:H	0.96	1.06
1:C:4696:ASP:HA	1:C:4697:VAL:HG13	1.33	1.06
1:A:151:HIS:O	1:A:153:ALA:N	1.88	1.06
1:A:1124:PHE:CB	1:A:1131:ARG:HA	1.82	1.06
1:A:1288:PHE:HA	1:A:1553:PHE:CB	1.84	1.06
1:B:1288:PHE:C	1:B:1553:PHE:HA	1.79	1.06
1:B:4935:LEU:HD22	1:C:4940:PHE:HE2	0.91	1.06
1:C:4832:HIS:ND1	1:C:4833:ASN:OD1	1.87	1.06
1:D:5017:ARG:HB2	1:D:5019:TRP:HE1	1.14	1.06
1:B:1124:PHE:CB	1:B:1131:ARG:CB	2.34	1.06
1:B:1124:PHE:CB	1:B:1131:ARG:HA	1.82	1.06
1:C:4687:TYR:N	1:C:4692:PRO:HD3	1.71	1.06
1:A:639:ASN:HA	1:A:1634:LEU:O	1.53	1.06
1:A:1095:VAL:H	1:A:1200:GLY:HA2	1.19	1.06
1:A:1111:PRO:CB	1:A:1608:MET:O	2.03	1.06
1:A:1295:VAL:O	1:A:1547:LYS:HA	1.55	1.06
1:B:2110:TYR:HD2	1:B:3696:ASP:CB	1.69	1.06
1:B:4696:ASP:HA	1:B:4697:VAL:HG13	1.33	1.06
1:B:4998:LYS:CB	1:B:5002:GLU:CB	2.34	1.06
1:C:1111:PRO:CB	1:C:1608:MET:O	2.03	1.06
1:C:1288:PHE:HA	1:C:1553:PHE:CB	1.84	1.06
1:C:4195:PHE:HE2	1:C:4991:PHE:CG	1.72	1.06
1:C:4776:GLN:HA	1:C:4776:GLN:HE21	1.18	1.06
1:C:4995:LEU:CD1	1:C:5011:TRP:CZ3	2.38	1.06
1:D:1111:PRO:CB	1:D:1608:MET:O	2.03	1.06
1:A:1122:TYR:CD1	1:A:1133:HIS:O	2.09	1.06
1:C:2110:TYR:HD2	1:C:3696:ASP:CB	1.69	1.06
1:D:1288:PHE:HA	1:D:1553:PHE:CB	1.84	1.06
1:D:4832:HIS:ND1	1:D:4833:ASN:OD1	1.87	1.06
1:B:1111:PRO:CB	1:B:1608:MET:O	2.03	1.05
1:B:4934:GLY:HA3	1:C:4937:ILE:CD1	1.63	1.05
1:C:460:GLN:C	1:C:462:GLU:H	1.61	1.05
1:C:1122:TYR:CE1	1:C:1133:HIS:O	2.09	1.05
1:D:1122:TYR:CE1	1:D:1133:HIS:O	2.09	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4968:PHE:HB3	1:D:4975:PHE:HA	1.34	1.05
1:A:1124:PHE:CB	1:A:1131:ARG:CB	2.34	1.05
1:A:2110:TYR:HD2	1:A:3696:ASP:CB	1.69	1.05
1:A:4182:GLU:OE2	1:A:4988:TYR:HB2	1.54	1.05
1:A:4575:PHE:CD1	1:A:4576:ILE:HD13	1.91	1.05
1:B:1292:SER:CB	1:B:1600:LEU:CB	2.35	1.05
1:B:4575:PHE:CD1	1:B:4576:ILE:HD13	1.91	1.05
1:B:4687:TYR:N	1:B:4692:PRO:HD3	1.71	1.05
1:C:639:ASN:HA	1:C:1634:LEU:O	1.53	1.05
1:C:4998:LYS:CB	1:C:5002:GLU:CB	2.34	1.05
1:C:5017:ARG:HB2	1:C:5019:TRP:HE1	1.15	1.05
1:D:1122:TYR:CD1	1:D:1133:HIS:O	2.09	1.05
1:D:4195:PHE:HE2	1:D:4991:PHE:CG	1.72	1.05
1:D:4687:TYR:N	1:D:4692:PRO:HD3	1.71	1.05
1:A:1288:PHE:C	1:A:1553:PHE:HA	1.79	1.05
1:B:460:GLN:C	1:B:462:GLU:H	1.61	1.05
1:C:1124:PHE:CB	1:C:1131:ARG:CB	2.34	1.05
1:A:71:GLN:O	1:A:106:ALA:O	1.71	1.05
1:A:1122:TYR:CE1	1:A:1133:HIS:O	2.09	1.05
1:A:4998:LYS:CB	1:A:5002:GLU:CB	2.34	1.05
1:C:1292:SER:CB	1:C:1600:LEU:CB	2.35	1.05
1:C:4184:MET:HA	1:C:5021:PHE:O	1.57	1.05
1:A:77:ALA:HA	1:B:3935:TRP:NE1	1.72	1.05
1:A:2145:SER:CB	1:A:3645:PRO:CB	2.34	1.05
1:A:4995:LEU:CD1	1:A:5011:TRP:HE3	1.61	1.05
1:B:151:HIS:O	1:B:153:ALA:N	1.88	1.05
1:D:1124:PHE:CB	1:D:1131:ARG:CB	2.34	1.05
1:D:4978:HIS:CE1	1:D:4983:HIS:CD2	2.39	1.05
1:A:1292:SER:CB	1:A:1600:LEU:CB	2.35	1.04
1:A:4687:TYR:N	1:A:4692:PRO:HD3	1.71	1.04
1:B:312:THR:O	1:B:313:SER:CB	2.04	1.04
1:B:1122:TYR:CE1	1:B:1133:HIS:O	2.09	1.04
1:B:4195:PHE:CE2	1:B:4991:PHE:CD2	2.45	1.04
1:B:4673:ARG:HB3	1:B:4673:ARG:HH11	1.22	1.04
1:B:4677:LEU:CD2	1:B:4711:PHE:CZ	2.40	1.04
1:C:1556:PRO:O	1:C:1557:THR:CB	2.05	1.04
1:C:4195:PHE:CE2	1:C:4991:PHE:CD2	2.45	1.04
1:D:1295:VAL:O	1:D:1547:LYS:HA	1.55	1.04
1:D:1556:PRO:O	1:D:1557:THR:CB	2.05	1.04
1:B:1288:PHE:O	1:B:1553:PHE:CA	2.06	1.04
1:B:1295:VAL:O	1:B:1547:LYS:HA	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2145:SER:CB	1:B:3645:PRO:CB	2.34	1.04
1:C:4575:PHE:CD1	1:C:4576:ILE:HD13	1.91	1.04
1:C:4968:PHE:HB3	1:C:4975:PHE:HA	1.34	1.04
1:D:151:HIS:O	1:D:153:ALA:N	1.88	1.04
1:D:4998:LYS:CB	1:D:5002:GLU:CB	2.34	1.04
1:A:4968:PHE:HB3	1:A:4975:PHE:HA	1.34	1.04
1:B:4776:GLN:HE21	1:B:4776:GLN:HA	1.18	1.04
1:C:2145:SER:CB	1:C:3645:PRO:CB	2.34	1.04
1:D:1292:SER:CB	1:D:1600:LEU:CB	2.35	1.04
1:D:2110:TYR:HD2	1:D:3696:ASP:CB	1.69	1.04
1:C:72:SER:CA	1:C:106:ALA:O	2.05	1.04
1:A:1288:PHE:O	1:A:1553:PHE:CA	2.06	1.04
1:A:4184:MET:HA	1:A:5021:PHE:O	1.57	1.04
1:A:4937:ILE:HD12	1:D:4934:GLY:HA2	1.11	1.04
1:B:4978:HIS:CE1	1:B:4983:HIS:CD2	2.39	1.04
1:C:1095:VAL:H	1:C:1200:GLY:HA2	1.19	1.04
1:C:1122:TYR:CD1	1:C:1133:HIS:O	2.09	1.04
1:C:1288:PHE:O	1:C:1553:PHE:CA	2.06	1.04
1:D:4195:PHE:CE2	1:D:4991:PHE:CD2	2.45	1.04
1:A:460:GLN:C	1:A:462:GLU:H	1.61	1.03
1:D:1095:VAL:H	1:D:1200:GLY:HA2	1.19	1.03
1:D:4195:PHE:CE2	1:D:4991:PHE:HA	1.93	1.03
1:A:634:GLN:O	1:A:1639:LEU:CB	2.07	1.03
1:A:840:VAL:CB	1:A:1199:VAL:CB	2.36	1.03
1:A:4936:ILE:HG21	1:D:4930:ALA:HB1	1.34	1.03
1:B:4934:GLY:HA3	1:C:4937:ILE:HD13	1.38	1.03
1:C:77:ALA:HA	1:D:3935:TRP:NE1	1.72	1.03
1:C:4677:LEU:CD2	1:C:4711:PHE:CZ	2.40	1.03
1:D:875:ALA:HB1	1:D:925:SER:CB	1.88	1.03
1:D:1288:PHE:O	1:D:1553:PHE:CA	2.06	1.03
1:D:2145:SER:CB	1:D:3645:PRO:CB	2.34	1.03
1:D:4184:MET:HA	1:D:5021:PHE:O	1.57	1.03
1:A:3986:TRP:HB3	1:A:3987:ASP:CB	1.89	1.03
1:B:1096:THR:CB	1:B:1199:VAL:H	1.72	1.03
1:B:1122:TYR:CD1	1:B:1133:HIS:O	2.09	1.03
1:B:1124:PHE:CB	1:B:1130:GLN:O	2.07	1.03
1:B:3986:TRP:HB3	1:B:3987:ASP:CB	1.89	1.03
1:D:4575:PHE:CD1	1:D:4576:ILE:HD13	1.91	1.03
1:B:72:SER:CA	1:B:106:ALA:O	2.05	1.03
1:B:77:ALA:CB	1:C:3935:TRP:NE1	2.22	1.03
1:C:840:VAL:CB	1:C:1199:VAL:CB	2.36	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1295:VAL:O	1:C:1547:LYS:HA	1.55	1.03
1:C:3658:LYS:HA	1:C:3661:TRP:HD1	1.21	1.03
1:C:4195:PHE:CE2	1:C:4991:PHE:HA	1.93	1.03
1:D:72:SER:CA	1:D:106:ALA:O	2.05	1.03
1:D:634:GLN:O	1:D:1639:LEU:CB	2.07	1.03
1:B:840:VAL:CB	1:B:1199:VAL:CB	2.36	1.03
1:B:4783:ILE:O	1:B:4789:PHE:CD2	2.12	1.03
1:C:1096:THR:CB	1:C:1199:VAL:H	1.72	1.03
1:C:1124:PHE:CB	1:C:1130:GLN:O	2.07	1.03
1:D:4783:ILE:O	1:D:4789:PHE:CD2	2.12	1.03
1:A:77:ALA:CB	1:B:3935:TRP:NE1	2.22	1.02
1:A:1096:THR:CB	1:A:1199:VAL:H	1.72	1.02
1:A:3935:TRP:CD1	1:D:77:ALA:CA	2.42	1.02
1:B:1255:TYR:CB	1:B:1279:SER:CB	2.37	1.02
1:C:4978:HIS:HE1	1:C:4983:HIS:HE2	1.05	1.02
1:D:117:TYR:HD2	1:D:141:ALA:CB	1.73	1.02
1:D:3986:TRP:HB3	1:D:3987:ASP:CB	1.89	1.02
1:A:117:TYR:HD2	1:A:141:ALA:CB	1.73	1.02
1:A:312:THR:O	1:A:313:SER:CB	2.04	1.02
1:B:77:ALA:HA	1:C:3935:TRP:NE1	1.72	1.02
1:B:77:ALA:CA	1:C:3935:TRP:CD1	2.42	1.02
1:B:1556:PRO:O	1:B:1557:THR:CB	2.05	1.02
1:B:4184:MET:HA	1:B:5021:PHE:O	1.57	1.02
1:B:4195:PHE:CE2	1:B:4991:PHE:HA	1.93	1.02
1:C:77:ALA:CB	1:D:3935:TRP:NE1	2.21	1.02
1:C:77:ALA:CA	1:D:3935:TRP:CD1	2.42	1.02
1:C:312:THR:O	1:C:313:SER:CB	2.04	1.02
1:C:4783:ILE:O	1:C:4789:PHE:CD2	2.12	1.02
1:C:4921:PHE:C	1:C:4925:ILE:HD11	1.84	1.02
1:D:1255:TYR:CB	1:D:1279:SER:CB	2.37	1.02
1:A:72:SER:CA	1:A:106:ALA:O	2.05	1.02
1:A:1255:TYR:CB	1:A:1279:SER:CB	2.37	1.02
1:A:4784:PHE:HA	1:A:4789:PHE:HE2	1.22	1.02
1:C:1255:TYR:CB	1:C:1279:SER:CB	2.37	1.02
1:C:4673:ARG:HB3	1:C:4673:ARG:HH11	1.22	1.02
1:C:4978:HIS:CE1	1:C:4983:HIS:CD2	2.39	1.02
1:A:77:ALA:CA	1:B:3935:TRP:CD1	2.41	1.02
1:A:3935:TRP:NE1	1:D:77:ALA:CB	2.22	1.02
1:A:4937:ILE:HD13	1:D:4934:GLY:HA3	1.37	1.02
1:B:789:VAL:O	1:B:1628:VAL:N	1.93	1.02
1:C:117:TYR:HD2	1:C:141:ALA:CB	1.73	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:634:GLN:O	1:C:1639:LEU:CB	2.07	1.02
1:C:789:VAL:O	1:C:1628:VAL:N	1.93	1.02
1:C:3986:TRP:HB3	1:C:3987:ASP:CB	1.89	1.02
1:C:4090:LYS:H	1:C:4121:GLU:CB	1.73	1.02
1:C:4934:GLY:CA	1:D:4937:ILE:CD1	2.38	1.02
1:D:789:VAL:O	1:D:1628:VAL:N	1.92	1.02
1:A:789:VAL:O	1:A:1628:VAL:N	1.92	1.02
1:A:1556:PRO:O	1:A:1557:THR:CB	2.05	1.02
1:A:1588:ALA:HB1	1:A:1589:PRO:HA	1.42	1.02
1:A:4930:ALA:HB3	1:B:4936:ILE:HD12	1.41	1.02
1:C:1164:LEU:O	1:C:1167:GLU:CB	2.08	1.02
1:C:4971:THR:CG2	1:C:4974:GLY:HA3	1.90	1.02
1:D:840:VAL:CB	1:D:1199:VAL:CB	2.36	1.02
1:D:1164:LEU:O	1:D:1167:GLU:CB	2.08	1.02
1:D:4921:PHE:C	1:D:4925:ILE:HD11	1.84	1.02
1:A:1164:LEU:O	1:A:1167:GLU:CB	2.08	1.01
1:A:4673:ARG:HB3	1:A:4673:ARG:HH11	1.22	1.01
1:A:4783:ILE:O	1:A:4789:PHE:CD2	2.12	1.01
1:B:1164:LEU:O	1:B:1167:GLU:CB	2.08	1.01
1:B:4090:LYS:H	1:B:4121:GLU:CB	1.73	1.01
1:B:4141:PHE:HZ	1:B:4196:GLU:CB	1.69	1.01
1:B:4197:ILE:CD1	1:B:4990:PHE:CD2	2.42	1.01
1:D:790:ARG:CA	1:D:1627:ALA:CA	2.31	1.01
1:D:1096:THR:CB	1:D:1199:VAL:H	1.72	1.01
1:D:4197:ILE:CD1	1:D:4990:PHE:CD2	2.42	1.01
1:D:4677:LEU:CD2	1:D:4711:PHE:CZ	2.40	1.01
1:D:4971:THR:CG2	1:D:4974:GLY:HA3	1.90	1.01
1:A:3896:ASN:CB	1:A:3899:PHE:HB3	1.89	1.01
1:A:3935:TRP:NE1	1:D:77:ALA:HA	1.73	1.01
1:B:4921:PHE:C	1:B:4925:ILE:HD11	1.84	1.01
1:C:875:ALA:HB1	1:C:925:SER:CB	1.88	1.01
1:C:4197:ILE:CD1	1:C:4990:PHE:CD2	2.42	1.01
1:C:4914:VAL:CG2	1:D:4888:TYR:HD2	1.73	1.01
1:B:634:GLN:O	1:B:1639:LEU:CB	2.07	1.01
1:B:1096:THR:CB	1:B:1199:VAL:N	2.24	1.01
1:B:3896:ASN:CB	1:B:3899:PHE:HB3	1.89	1.01
1:D:1588:ALA:HB1	1:D:1589:PRO:HA	1.42	1.01
1:D:4181:ILE:O	1:D:4182:GLU:HB2	1.59	1.01
1:A:1124:PHE:CB	1:A:1130:GLN:O	2.07	1.01
1:B:117:TYR:HD2	1:B:141:ALA:CB	1.73	1.01
1:B:4784:PHE:CA	1:B:4789:PHE:HE2	1.69	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1124:PHE:CB	1:D:1130:GLN:O	2.07	1.01
1:D:3658:LYS:HA	1:D:3661:TRP:HD1	1.21	1.01
1:D:3896:ASN:CB	1:D:3899:PHE:HB3	1.89	1.01
1:A:4141:PHE:CE2	1:A:4196:GLU:CB	2.44	1.01
1:C:3896:ASN:CB	1:C:3899:PHE:HB3	1.89	1.01
1:D:1096:THR:CB	1:D:1199:VAL:N	2.24	1.01
1:A:4971:THR:CG2	1:A:4974:GLY:HA3	1.90	1.00
1:B:1239:SER:HA	1:B:1608:MET:CB	1.91	1.00
1:B:1588:ALA:HB1	1:B:1589:PRO:HA	1.42	1.00
1:C:1096:THR:CB	1:C:1199:VAL:N	2.24	1.00
1:D:4183:ILE:HG21	1:D:4190:ILE:O	1.61	1.00
1:D:4673:ARG:HB3	1:D:4673:ARG:HH11	1.22	1.00
1:A:1096:THR:CB	1:A:1199:VAL:N	2.24	1.00
1:A:4090:LYS:H	1:A:4121:GLU:CB	1.73	1.00
1:B:38:ALA:HB2	1:B:64:ILE:O	1.59	1.00
1:B:875:ALA:HB1	1:B:925:SER:CB	1.88	1.00
1:B:4971:THR:CG2	1:B:4974:GLY:HA3	1.90	1.00
1:C:721:LEU:CB	1:C:728:ARG:CA	2.40	1.00
1:D:312:THR:O	1:D:313:SER:CB	2.04	1.00
1:D:1287:LEU:CB	1:D:1554:VAL:H	1.72	1.00
1:D:4090:LYS:H	1:D:4121:GLU:CB	1.73	1.00
1:A:875:ALA:HB1	1:A:925:SER:CB	1.88	1.00
1:A:4183:ILE:HG21	1:A:4190:ILE:O	1.61	1.00
1:A:4195:PHE:CE2	1:A:4991:PHE:CA	2.44	1.00
1:A:4914:VAL:CG2	1:B:4888:TYR:HD2	1.73	1.00
1:A:4921:PHE:C	1:A:4925:ILE:HD11	1.84	1.00
1:B:4141:PHE:CE2	1:B:4196:GLU:CB	2.44	1.00
1:C:118:LEU:HA	1:C:137:LEU:HA	1.41	1.00
1:C:4784:PHE:CA	1:C:4789:PHE:HE2	1.69	1.00
1:D:721:LEU:CB	1:D:728:ARG:CA	2.40	1.00
1:D:38:ALA:HB2	1:D:64:ILE:O	1.59	1.00
1:D:4141:PHE:CE2	1:D:4196:GLU:CB	2.44	1.00
1:A:4934:GLY:HA3	1:B:4937:ILE:HD13	1.43	1.00
1:B:721:LEU:CB	1:B:728:ARG:CA	2.40	1.00
1:B:3658:LYS:HA	1:B:3661:TRP:HD1	1.21	1.00
1:A:4677:LEU:CD2	1:A:4711:PHE:CZ	2.40	1.00
1:A:4784:PHE:CA	1:A:4789:PHE:HE2	1.69	1.00
1:B:359:TYR:CB	1:B:376:ALA:CB	2.40	1.00
1:C:4141:PHE:CE2	1:C:4196:GLU:CB	2.44	1.00
1:D:359:TYR:CB	1:D:376:ALA:CB	2.40	1.00
1:A:359:TYR:CB	1:A:376:ALA:CB	2.40	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:721:LEU:CB	1:A:728:ARG:CA	2.40	0.99
1:A:1239:SER:HA	1:A:1608:MET:CB	1.91	0.99
1:C:4930:ALA:HB3	1:D:4936:ILE:HD12	1.41	0.99
1:D:460:GLN:C	1:D:462:GLU:H	1.61	0.99
1:C:1239:SER:HA	1:C:1608:MET:CB	1.91	0.99
1:D:118:LEU:HA	1:D:137:LEU:HA	1.41	0.99
1:A:4784:PHE:C	1:A:4789:PHE:HE2	1.71	0.99
1:B:2102:VAL:HA	1:B:2105:TRP:CD1	1.98	0.99
1:B:4914:VAL:CG2	1:C:4888:TYR:HD2	1.75	0.99
1:C:2102:VAL:HA	1:C:2105:TRP:CD1	1.98	0.99
1:A:4195:PHE:CE2	1:A:4991:PHE:HA	1.97	0.99
1:C:359:TYR:CB	1:C:376:ALA:CB	2.40	0.99
1:C:1588:ALA:HB1	1:C:1589:PRO:HA	1.42	0.99
1:C:4183:ILE:HG21	1:C:4190:ILE:O	1.61	0.99
1:A:875:ALA:HB2	1:A:925:SER:CB	1.91	0.99
1:A:2102:VAL:HA	1:A:2105:TRP:CD1	1.98	0.99
1:A:4888:TYR:HD2	1:D:4914:VAL:CG2	1.75	0.99
1:C:4181:ILE:O	1:C:4182:GLU:HB2	1.59	0.99
1:D:4784:PHE:CA	1:D:4789:PHE:HE2	1.69	0.99
1:C:4559:PHE:HD1	1:C:4560:TYR:HD1	1.09	0.99
1:A:3658:LYS:HA	1:A:3661:TRP:HD1	1.21	0.99
1:B:4183:ILE:HG21	1:B:4190:ILE:O	1.61	0.99
1:C:4784:PHE:C	1:C:4789:PHE:HE2	1.71	0.99
1:A:4935:LEU:HD22	1:B:4940:PHE:CE2	1.98	0.99
1:B:4559:PHE:HD1	1:B:4560:TYR:HD1	1.09	0.99
1:A:4891:VAL:HG22	1:D:4918:ILE:HG13	1.43	0.98
1:B:4784:PHE:C	1:B:4789:PHE:HE2	1.71	0.98
1:C:38:ALA:HB2	1:C:64:ILE:O	1.59	0.98
1:C:875:ALA:HB2	1:C:925:SER:CB	1.91	0.98
1:D:2102:VAL:HA	1:D:2105:TRP:CD1	1.98	0.98
1:A:4697:VAL:H	1:A:4699:GLY:H	1.12	0.98
1:B:4182:GLU:OE2	1:B:4988:TYR:HB2	1.63	0.98
1:C:4182:GLU:OE2	1:C:4988:TYR:HB2	1.63	0.98
1:A:1287:LEU:CB	1:A:1554:VAL:H	1.72	0.98
1:A:4141:PHE:HZ	1:A:4196:GLU:CB	1.69	0.98
1:C:1239:SER:CB	1:C:1608:MET:CB	2.42	0.98
1:B:4918:ILE:HG13	1:C:4891:VAL:HG22	1.44	0.98
1:A:4235:VAL:HG11	1:A:5019:TRP:CZ3	1.99	0.98
1:B:118:LEU:HA	1:B:137:LEU:HA	1.41	0.98
1:C:4918:ILE:HG13	1:D:4891:VAL:HG22	1.42	0.98
1:B:4195:PHE:CE2	1:B:4991:PHE:CA	2.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4784:PHE:C	1:D:4789:PHE:HE2	1.71	0.98
1:A:118:LEU:HA	1:A:137:LEU:HA	1.41	0.98
1:A:1239:SER:CB	1:A:1608:MET:CB	2.42	0.98
1:B:4235:VAL:HG11	1:B:5019:TRP:CZ3	1.99	0.98
1:C:4195:PHE:CE2	1:C:4991:PHE:CA	2.46	0.98
1:D:4195:PHE:CE2	1:D:4991:PHE:CA	2.46	0.98
1:A:349:GLN:CB	1:A:356:TRP:HA	1.95	0.97
1:B:1239:SER:CB	1:B:1608:MET:CB	2.42	0.97
1:A:38:ALA:HB2	1:A:64:ILE:O	1.59	0.97
1:B:4181:ILE:O	1:B:4182:GLU:HB2	1.59	0.97
1:A:1123:VAL:O	1:A:1132:TRP:N	1.97	0.97
1:B:1123:VAL:O	1:B:1132:TRP:N	1.97	0.97
1:D:875:ALA:HB2	1:D:925:SER:CB	1.91	0.97
1:D:4795:TYR:OH	1:D:4813:LEU:HA	1.63	0.97
1:D:349:GLN:CB	1:D:356:TRP:HA	1.94	0.97
1:A:4181:ILE:O	1:A:4182:GLU:HB2	1.59	0.97
1:D:4697:VAL:H	1:D:4699:GLY:H	1.12	0.97
1:A:1273:ALA:HB2	1:A:1565:GLU:C	1.90	0.97
1:C:349:GLN:CB	1:C:356:TRP:HA	1.94	0.97
1:D:1239:SER:HA	1:D:1608:MET:CB	1.91	0.97
1:D:4115:SER:HA	1:D:4128:PHE:CE2	2.00	0.97
1:A:790:ARG:CB	1:A:1627:ALA:CB	2.42	0.97
1:B:4957:LYS:HA	1:B:4964:GLY:CA	1.95	0.97
1:C:685:GLY:CA	1:C:713:SER:HA	1.95	0.97
1:D:1239:SER:CB	1:D:1608:MET:CB	2.42	0.97
1:A:4115:SER:HA	1:A:4128:PHE:CE2	2.00	0.97
1:C:4795:TYR:OH	1:C:4813:LEU:HA	1.63	0.97
1:A:1150:GLY:O	1:A:1163:THR:N	1.97	0.96
1:B:1273:ALA:HB2	1:B:1565:GLU:C	1.90	0.96
1:C:790:ARG:CB	1:C:1627:ALA:CB	2.42	0.96
1:C:4115:SER:HA	1:C:4128:PHE:CE2	2.00	0.96
1:D:4182:GLU:OE2	1:D:4988:TYR:HB2	1.63	0.96
1:A:3896:ASN:CB	1:A:3899:PHE:HB2	1.96	0.96
1:B:27:THR:CA	1:B:32:GLN:HA	1.94	0.96
1:C:684:VAL:O	1:C:714:TYR:N	1.98	0.96
1:D:1290:ARG:C	1:D:1551:ALA:CB	2.38	0.96
1:A:4995:LEU:CD1	1:A:5011:TRP:CZ3	2.48	0.96
1:A:4996:ILE:HG22	1:A:4997:ASN:OD1	1.65	0.96
1:B:684:VAL:O	1:B:714:TYR:N	1.98	0.96
1:C:1291:LEU:CB	1:C:1550:PRO:O	2.14	0.96
1:C:4235:VAL:HG11	1:C:5019:TRP:CZ3	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4918:ILE:HG13	1:B:4891:VAL:HG22	1.43	0.96
1:B:790:ARG:CB	1:B:1627:ALA:CB	2.42	0.96
1:C:1150:GLY:O	1:C:1163:THR:N	1.97	0.96
1:B:349:GLN:CB	1:B:356:TRP:HA	1.94	0.96
1:D:4957:LYS:CA	1:D:4964:GLY:HA3	1.96	0.96
1:A:685:GLY:CA	1:A:713:SER:HA	1.95	0.96
1:A:4795:TYR:OH	1:A:4813:LEU:HA	1.63	0.96
1:C:4697:VAL:H	1:C:4699:GLY:H	1.12	0.96
1:D:28:VAL:N	1:D:31:GLU:O	1.98	0.96
1:D:1123:VAL:O	1:D:1132:TRP:N	1.97	0.96
1:D:1150:GLY:O	1:D:1163:THR:N	1.97	0.96
1:A:460:GLN:O	1:A:462:GLU:N	1.98	0.96
1:B:1150:GLY:O	1:B:1163:THR:N	1.97	0.96
1:A:27:THR:CA	1:A:32:GLN:HA	1.94	0.96
1:C:4957:LYS:CA	1:C:4964:GLY:HA3	1.96	0.96
1:D:4235:VAL:HG11	1:D:5019:TRP:CZ3	1.99	0.96
1:A:1290:ARG:C	1:A:1551:ALA:CB	2.38	0.96
1:B:4115:SER:HA	1:B:4128:PHE:CE2	2.00	0.96
1:B:4795:TYR:OH	1:B:4813:LEU:HA	1.63	0.96
1:C:27:THR:CA	1:C:32:GLN:HA	1.94	0.96
1:C:918:ARG:HA	1:C:921:ASN:N	1.81	0.96
1:C:1123:VAL:O	1:C:1132:TRP:N	1.97	0.96
1:D:460:GLN:O	1:D:462:GLU:N	1.98	0.96
1:D:4957:LYS:HA	1:D:4964:GLY:CA	1.95	0.96
1:C:790:ARG:CA	1:C:1627:ALA:CA	2.31	0.96
1:C:1273:ALA:HB2	1:C:1565:GLU:C	1.90	0.96
1:D:245:VAL:O	1:D:247:TYR:N	1.99	0.96
1:D:1297:PHE:CG	1:D:1297:PHE:HB2	1.49	0.96
1:A:684:VAL:O	1:A:714:TYR:N	1.98	0.95
1:B:875:ALA:HB2	1:B:925:SER:CB	1.91	0.95
1:B:2451:LEU:CA	1:B:2454:ARG:HB3	1.96	0.95
1:C:460:GLN:O	1:C:462:GLU:N	1.99	0.95
1:C:5031:GLN:NE2	1:C:5031:GLN:O	1.99	0.95
1:D:27:THR:CA	1:D:32:GLN:HA	1.94	0.95
1:A:28:VAL:N	1:A:31:GLU:O	1.98	0.95
1:A:784:SER:O	1:A:785:ALA:HB3	1.66	0.95
1:A:1297:PHE:CG	1:A:1297:PHE:HB3	1.49	0.95
1:A:2451:LEU:CA	1:A:2454:ARG:HB3	1.96	0.95
1:D:685:GLY:CA	1:D:713:SER:HA	1.95	0.95
1:A:4181:ILE:HG22	1:A:4182:GLU:O	1.66	0.95
1:C:4957:LYS:HA	1:C:4964:GLY:CA	1.95	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1291:LEU:CB	1:A:1550:PRO:O	2.14	0.95
1:A:3986:TRP:CB	1:A:3987:ASP:CB	2.44	0.95
1:A:4653:VAL:O	1:A:4657:CYS:SG	2.25	0.95
1:A:4957:LYS:CA	1:A:4964:GLY:HA3	1.96	0.95
1:C:28:VAL:N	1:C:31:GLU:O	1.98	0.95
1:D:1273:ALA:HB2	1:D:1565:GLU:C	1.90	0.95
1:A:4206:GLU:O	1:A:4207:MET:CB	2.13	0.95
1:A:4930:ALA:CB	1:B:4936:ILE:HD12	1.95	0.95
1:B:28:VAL:N	1:B:31:GLU:O	1.98	0.95
1:B:460:GLN:O	1:B:462:GLU:N	1.98	0.95
1:B:685:GLY:CA	1:B:713:SER:HA	1.95	0.95
1:D:918:ARG:HA	1:D:921:ASN:N	1.81	0.95
1:C:3896:ASN:CB	1:C:3899:PHE:HB2	1.96	0.95
1:A:4957:LYS:HA	1:A:4964:GLY:CA	1.95	0.95
1:B:4957:LYS:CA	1:B:4964:GLY:HA3	1.96	0.95
1:C:4206:GLU:O	1:C:4207:MET:CB	2.13	0.95
1:D:2274:ASP:HA	1:D:2277:ALA:N	1.82	0.95
1:D:3986:TRP:CB	1:D:3987:ASP:CB	2.44	0.95
1:D:4181:ILE:HG22	1:D:4182:GLU:O	1.67	0.95
1:D:4686:LEU:CB	1:D:4692:PRO:HG3	1.97	0.95
1:D:5031:GLN:O	1:D:5031:GLN:NE2	1.99	0.95
1:B:245:VAL:O	1:B:247:TYR:N	1.99	0.95
1:B:5031:GLN:NE2	1:B:5031:GLN:O	1.99	0.95
1:C:4181:ILE:HG22	1:C:4182:GLU:O	1.67	0.95
1:C:4918:ILE:CG1	1:D:4891:VAL:CG2	2.34	0.95
1:D:1297:PHE:CG	1:D:1297:PHE:HB3	1.49	0.95
1:D:4235:VAL:HG11	1:D:5019:TRP:HH2	1.00	0.95
1:A:2536:LEU:O	1:A:2541:PHE:CB	2.15	0.95
1:B:3896:ASN:CB	1:B:3899:PHE:HB2	1.96	0.95
1:B:4728:HIS:O	1:B:4737:ILE:HD11	1.67	0.95
1:C:2451:LEU:CA	1:C:2454:ARG:HB3	1.96	0.95
1:D:243:ARG:O	1:D:300:VAL:CB	2.15	0.95
1:D:1291:LEU:CB	1:D:1550:PRO:O	2.14	0.95
1:B:243:ARG:O	1:B:300:VAL:CB	2.15	0.95
1:B:4653:VAL:O	1:B:4657:CYS:SG	2.25	0.95
1:B:5017:ARG:HB2	1:B:5019:TRP:NE1	1.82	0.95
1:C:245:VAL:O	1:C:247:TYR:N	1.99	0.95
1:C:1290:ARG:C	1:C:1551:ALA:CB	2.38	0.95
1:C:4686:LEU:CB	1:C:4692:PRO:HG3	1.97	0.95
1:D:2451:LEU:CA	1:D:2454:ARG:HB3	1.96	0.95
1:A:243:ARG:O	1:A:300:VAL:CB	2.15	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2274:ASP:HA	1:A:2277:ALA:N	1.82	0.94
1:A:4728:HIS:O	1:A:4737:ILE:HD11	1.67	0.94
1:A:4935:LEU:HD22	1:B:4940:PHE:HE2	1.28	0.94
1:B:4686:LEU:CB	1:B:4692:PRO:HG3	1.97	0.94
1:C:4141:PHE:N	1:C:4174:PHE:CE2	2.35	0.94
1:A:827:LYS:O	1:A:828:GLU:CB	2.14	0.94
1:A:5031:GLN:O	1:A:5031:GLN:NE2	1.99	0.94
1:B:784:SER:O	1:B:785:ALA:HB3	1.66	0.94
1:B:1291:LEU:CB	1:B:1550:PRO:O	2.14	0.94
1:C:243:ARG:O	1:C:300:VAL:CB	2.15	0.94
1:C:4930:ALA:CB	1:D:4936:ILE:HD12	1.95	0.94
1:A:4918:ILE:CG1	1:B:4891:VAL:CG2	2.35	0.94
1:B:1290:ARG:C	1:B:1551:ALA:CB	2.38	0.94
1:C:4934:GLY:CA	1:D:4937:ILE:HD12	1.94	0.94
1:C:784:SER:O	1:C:785:ALA:HB3	1.66	0.94
1:C:791:PHE:N	1:C:1626:TRP:O	2.01	0.94
1:C:3986:TRP:CB	1:C:3987:ASP:CB	2.44	0.94
1:A:245:VAL:O	1:A:247:TYR:N	1.99	0.94
1:A:1297:PHE:CG	1:A:1297:PHE:HB2	1.49	0.94
1:A:1708:ARG:NH1	1:A:1837:GLN:CA	1.96	0.94
1:B:918:ARG:HA	1:B:921:ASN:N	1.81	0.94
1:B:3986:TRP:CB	1:B:3987:ASP:CB	2.44	0.94
1:D:684:VAL:O	1:D:714:TYR:N	1.98	0.94
1:D:784:SER:O	1:D:785:ALA:HB3	1.66	0.94
1:D:791:PHE:N	1:D:1626:TRP:O	2.01	0.94
1:D:1536:SER:O	1:D:1537:ASN:CB	2.14	0.94
1:D:3896:ASN:CB	1:D:3899:PHE:HB2	1.95	0.94
1:A:4559:PHE:HD1	1:A:4560:TYR:HD1	1.09	0.94
1:B:791:PHE:N	1:B:1626:TRP:O	2.01	0.94
1:B:2536:LEU:O	1:B:2541:PHE:CB	2.15	0.94
1:B:4697:VAL:H	1:B:4699:GLY:H	1.11	0.94
1:D:1096:THR:CB	1:D:1198:GLN:CA	2.46	0.94
1:B:4181:ILE:HG22	1:B:4182:GLU:O	1.67	0.94
1:C:77:ALA:CA	1:D:3935:TRP:NE1	2.31	0.94
1:C:1096:THR:CB	1:C:1198:GLN:CA	2.46	0.94
1:C:1297:PHE:CG	1:C:1297:PHE:HB2	1.49	0.94
1:A:790:ARG:CA	1:A:1627:ALA:CA	2.31	0.94
1:A:791:PHE:N	1:A:1626:TRP:O	2.01	0.94
1:A:4141:PHE:N	1:A:4174:PHE:CE2	2.35	0.94
1:A:4686:LEU:CB	1:A:4692:PRO:HG3	1.97	0.94
1:A:4768:LEU:HD13	1:A:4770:SER:H	1.33	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1515:VAL:O	1:B:1529:PHE:CB	2.16	0.94
1:B:4768:LEU:HD13	1:B:4770:SER:H	1.33	0.94
1:C:1276:THR:CB	1:C:1562:ILE:O	2.16	0.94
1:C:5017:ARG:HB2	1:C:5019:TRP:NE1	1.82	0.94
1:D:827:LYS:O	1:D:828:GLU:CB	2.14	0.94
1:D:2536:LEU:O	1:D:2541:PHE:CB	2.15	0.94
1:D:4206:GLU:O	1:D:4207:MET:CB	2.13	0.94
1:D:4653:VAL:O	1:D:4657:CYS:SG	2.25	0.94
1:A:77:ALA:CA	1:B:3935:TRP:NE1	2.31	0.94
1:A:5017:ARG:HB2	1:A:5019:TRP:NE1	1.82	0.94
1:B:77:ALA:CA	1:C:3935:TRP:NE1	2.31	0.94
1:B:4206:GLU:O	1:B:4207:MET:CB	2.13	0.94
1:D:790:ARG:CA	1:D:1627:ALA:HB2	1.94	0.94
1:D:4784:PHE:HA	1:D:4789:PHE:HE2	1.22	0.94
1:A:1515:VAL:O	1:A:1529:PHE:CB	2.16	0.94
1:B:1297:PHE:CG	1:B:1297:PHE:HB2	1.49	0.94
1:B:1297:PHE:CG	1:B:1297:PHE:HB3	1.49	0.94
1:C:790:ARG:CA	1:C:1627:ALA:HB2	1.94	0.94
1:D:1276:THR:CB	1:D:1562:ILE:O	2.16	0.94
1:A:4235:VAL:CG1	1:A:5019:TRP:CH2	2.51	0.93
1:C:2536:LEU:O	1:C:2541:PHE:CB	2.15	0.93
1:C:4834:GLY:O	1:C:4838:VAL:HG23	1.68	0.93
1:D:73:LEU:O	1:D:105:HIS:CB	2.16	0.93
1:B:1276:THR:CB	1:B:1562:ILE:O	2.16	0.93
1:B:4649:LEU:O	1:B:4653:VAL:HG23	1.68	0.93
1:C:4649:LEU:O	1:C:4653:VAL:HG23	1.68	0.93
1:D:4728:HIS:O	1:D:4737:ILE:HD11	1.67	0.93
1:B:2274:ASP:HA	1:B:2277:ALA:N	1.82	0.93
1:C:4653:VAL:O	1:C:4657:CYS:SG	2.25	0.93
1:C:4728:HIS:O	1:C:4737:ILE:HD11	1.67	0.93
1:B:827:LYS:O	1:B:828:GLU:CB	2.14	0.93
1:B:2451:LEU:HA	1:B:2454:ARG:HB3	1.51	0.93
1:B:4834:GLY:O	1:B:4838:VAL:HG23	1.68	0.93
1:D:4141:PHE:HZ	1:D:4196:GLU:CB	1.69	0.93
1:A:918:ARG:HA	1:A:921:ASN:N	1.81	0.93
1:B:4141:PHE:N	1:B:4174:PHE:CE2	2.35	0.93
1:B:4978:HIS:HE1	1:B:4983:HIS:NE2	1.46	0.93
1:D:790:ARG:CB	1:D:1627:ALA:CB	2.42	0.93
1:D:4141:PHE:N	1:D:4174:PHE:CE2	2.35	0.93
1:B:3837:GLN:OE1	1:B:3838:THR:N	2.02	0.93
1:C:4235:VAL:CG1	1:C:5019:TRP:CH2	2.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5017:ARG:HB2	1:D:5019:TRP:NE1	1.82	0.93
1:A:1096:THR:CB	1:A:1198:GLN:CA	2.46	0.93
1:A:3889:GLN:CB	1:A:3964:SER:CB	2.47	0.93
1:A:4935:LEU:CD2	1:B:4940:PHE:CE2	2.50	0.93
1:B:1536:SER:O	1:B:1537:ASN:CB	2.14	0.93
1:C:73:LEU:O	1:C:105:HIS:CB	2.16	0.93
1:C:1297:PHE:CG	1:C:1297:PHE:HB3	1.49	0.93
1:C:1515:VAL:O	1:C:1529:PHE:CB	2.16	0.93
1:B:1096:THR:CB	1:B:1198:GLN:CA	2.46	0.93
1:C:3837:GLN:OE1	1:C:3838:THR:N	2.02	0.93
1:A:3935:TRP:NE1	1:D:77:ALA:CA	2.32	0.93
1:B:168:ASP:CB	1:B:169:LEU:HA	1.99	0.93
1:B:4235:VAL:CG1	1:B:5019:TRP:CH2	2.51	0.93
1:C:2110:TYR:CD2	1:C:3696:ASP:CB	2.52	0.93
1:C:2274:ASP:HA	1:C:2277:ALA:N	1.82	0.93
1:A:73:LEU:O	1:A:105:HIS:CB	2.16	0.93
1:A:1290:ARG:CA	1:A:1551:ALA:CB	2.47	0.93
1:A:2110:TYR:CD2	1:A:3696:ASP:CB	2.52	0.93
1:C:2449:GLU:O	1:C:2450:ALA:HB3	1.69	0.93
1:C:4729:GLY:HA2	1:C:4732:PHE:H	1.34	0.93
1:D:3889:GLN:CB	1:D:3964:SER:CB	2.47	0.93
1:A:4834:GLY:O	1:A:4838:VAL:HG23	1.68	0.92
1:B:73:LEU:O	1:B:105:HIS:CB	2.16	0.92
1:B:2449:GLU:O	1:B:2450:ALA:HB3	1.69	0.92
1:C:4663:CYS:O	1:C:4667:PRO:HD3	1.68	0.92
1:C:4738:ALA:HA	1:C:4742:GLY:HA2	1.51	0.92
1:C:4768:LEU:HD13	1:C:4770:SER:H	1.33	0.92
1:D:4978:HIS:HE1	1:D:4983:HIS:NE2	1.46	0.92
1:A:4649:LEU:O	1:A:4653:VAL:HG23	1.68	0.92
1:B:1290:ARG:CA	1:B:1551:ALA:CB	2.47	0.92
1:B:4738:ALA:HA	1:B:4742:GLY:HA2	1.51	0.92
1:D:168:ASP:CB	1:D:169:LEU:HA	1.99	0.92
1:D:2451:LEU:HA	1:D:2454:ARG:HB3	1.50	0.92
1:D:2536:LEU:O	1:D:2541:PHE:HA	1.69	0.92
1:D:4738:ALA:HA	1:D:4742:GLY:HA2	1.51	0.92
1:A:1276:THR:CB	1:A:1562:ILE:O	2.16	0.92
1:A:2536:LEU:O	1:A:2541:PHE:HA	1.69	0.92
1:A:4738:ALA:HA	1:A:4742:GLY:HA2	1.51	0.92
1:C:1076:ARG:O	1:C:1236:THR:CB	2.17	0.92
1:C:1290:ARG:N	1:C:1551:ALA:HB1	1.84	0.92
1:C:4954:MET:HE3	1:C:4955:GLU:N	1.85	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1515:VAL:O	1:D:1529:PHE:CB	2.16	0.92
1:D:4954:MET:HE3	1:D:4955:GLU:N	1.85	0.92
1:D:4966:ASP:O	1:D:4968:PHE:N	2.02	0.92
1:A:168:ASP:CB	1:A:169:LEU:HA	1.99	0.92
1:B:3889:GLN:CB	1:B:3964:SER:CB	2.47	0.92
1:D:4729:GLY:HA2	1:D:4732:PHE:H	1.34	0.92
1:A:4954:MET:HE3	1:A:4955:GLU:N	1.85	0.92
1:B:2110:TYR:CD2	1:B:3696:ASP:CB	2.52	0.92
1:B:2161:GLN:HE21	1:B:2178:MET:CB	1.83	0.92
1:B:4729:GLY:HA2	1:B:4732:PHE:H	1.34	0.92
1:C:4141:PHE:HZ	1:C:4196:GLU:CB	1.69	0.92
1:D:4673:ARG:HB3	1:D:4673:ARG:NH1	1.85	0.92
1:A:2190:VAL:O	1:A:2191:PHE:HB3	1.69	0.92
1:A:4673:ARG:HB3	1:A:4673:ARG:NH1	1.85	0.92
1:A:4966:ASP:O	1:A:4968:PHE:N	2.02	0.92
1:B:1027:LEU:O	1:B:1028:ASP:CB	2.18	0.92
1:D:359:TYR:CB	1:D:376:ALA:HB1	1.99	0.92
1:D:4559:PHE:HD1	1:D:4560:TYR:HD1	1.09	0.92
1:A:1076:ARG:O	1:A:1236:THR:CB	2.17	0.92
1:A:4663:CYS:O	1:A:4667:PRO:HD3	1.68	0.92
1:A:4978:HIS:HE1	1:A:4983:HIS:NE2	1.46	0.92
1:C:2451:LEU:HA	1:C:2454:ARG:HB3	1.51	0.92
1:A:359:TYR:CB	1:A:376:ALA:HB1	1.99	0.92
1:A:2121:PHE:HE2	1:A:3702:VAL:CB	1.83	0.92
1:A:4172:GLU:O	1:A:4176:PRO:HD3	1.70	0.92
1:B:1076:ARG:O	1:B:1236:THR:CB	2.17	0.92
1:B:4172:GLU:O	1:B:4176:PRO:HD3	1.70	0.92
1:B:4954:MET:HE3	1:B:4955:GLU:N	1.85	0.92
1:C:168:ASP:CB	1:C:169:LEU:HA	1.99	0.92
1:C:1290:ARG:CA	1:C:1551:ALA:CB	2.47	0.92
1:C:4935:LEU:HD22	1:D:4940:PHE:CE2	2.04	0.92
1:C:4978:HIS:HE2	1:C:4983:HIS:HD2	0.92	0.92
1:D:111:HIS:O	1:D:115:ARG:N	2.02	0.92
1:D:2243:SER:O	1:D:2247:GLN:N	2.03	0.92
1:D:3933:PHE:HZ	1:D:3951:PHE:CD2	1.85	0.92
1:D:4834:GLY:O	1:D:4838:VAL:HG23	1.68	0.92
1:B:488:LEU:CA	1:B:491:ILE:CB	2.48	0.92
1:B:1287:LEU:CB	1:B:1554:VAL:H	1.72	0.92
1:C:359:TYR:CB	1:C:376:ALA:HB1	1.99	0.92
1:C:1124:PHE:CB	1:C:1130:GLN:C	2.43	0.92
1:C:1290:ARG:O	1:C:1551:ALA:CB	2.18	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2161:GLN:HE21	1:C:2178:MET:CB	1.83	0.92
1:D:1290:ARG:CA	1:D:1551:ALA:CB	2.47	0.92
1:D:2161:GLN:HE21	1:D:2178:MET:CB	1.83	0.92
1:D:4663:CYS:O	1:D:4667:PRO:HD3	1.68	0.92
1:D:4795:TYR:CE1	1:D:4813:LEU:HA	2.05	0.92
1:B:790:ARG:CA	1:B:1627:ALA:CA	2.31	0.92
1:C:483:MET:O	1:C:486:LEU:N	2.03	0.92
1:C:3889:GLN:CB	1:C:3964:SER:CB	2.47	0.92
1:C:4795:TYR:CE1	1:C:4813:LEU:HA	2.05	0.92
1:D:1076:ARG:O	1:D:1236:THR:CB	2.17	0.92
1:D:2110:TYR:CD2	1:D:3696:ASP:CB	2.52	0.92
1:D:4768:LEU:HD13	1:D:4770:SER:H	1.33	0.92
1:B:359:TYR:CB	1:B:376:ALA:HB1	1.99	0.91
1:B:4795:TYR:CE1	1:B:4813:LEU:HA	2.05	0.91
1:C:2121:PHE:HE2	1:C:3702:VAL:CB	1.83	0.91
1:A:4197:ILE:HD11	1:A:4990:PHE:CD2	2.06	0.91
1:B:1290:ARG:N	1:B:1551:ALA:HB1	1.84	0.91
1:C:111:HIS:O	1:C:115:ARG:N	2.02	0.91
1:C:1297:PHE:CG	1:C:1297:PHE:CB	0.86	0.91
1:C:2592:GLY:H	1:C:2595:LEU:H	1.13	0.91
1:C:4172:GLU:O	1:C:4176:PRO:HD3	1.70	0.91
1:C:4966:ASP:O	1:C:4968:PHE:N	2.02	0.91
1:D:4172:GLU:O	1:D:4176:PRO:HD3	1.70	0.91
1:A:1297:PHE:CG	1:A:1297:PHE:CB	0.86	0.91
1:A:2592:GLY:H	1:A:2595:LEU:H	1.13	0.91
1:A:3837:GLN:OE1	1:A:3838:THR:N	2.02	0.91
1:B:1290:ARG:O	1:B:1551:ALA:HB2	1.70	0.91
1:C:2145:SER:CB	1:C:3645:PRO:N	2.34	0.91
1:C:3933:PHE:HZ	1:C:3951:PHE:CD2	1.85	0.91
1:D:1124:PHE:CB	1:D:1130:GLN:C	2.43	0.91
1:D:3837:GLN:OE1	1:D:3838:THR:N	2.02	0.91
1:A:111:HIS:O	1:A:115:ARG:N	2.02	0.91
1:A:1536:SER:O	1:A:1537:ASN:CB	2.14	0.91
1:A:2145:SER:CB	1:A:3645:PRO:N	2.34	0.91
1:B:1290:ARG:O	1:B:1551:ALA:CB	2.18	0.91
1:B:2145:SER:CB	1:B:3645:PRO:N	2.34	0.91
1:B:4663:CYS:O	1:B:4667:PRO:HD3	1.68	0.91
1:C:2243:SER:O	1:C:2247:GLN:N	2.03	0.91
1:A:483:MET:O	1:A:486:LEU:N	2.03	0.91
1:A:488:LEU:CA	1:A:491:ILE:CB	2.48	0.91
1:A:1290:ARG:N	1:A:1551:ALA:HB1	1.84	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:483:MET:O	1:B:486:LEU:N	2.03	0.91
1:B:1297:PHE:CG	1:B:1297:PHE:CB	0.86	0.91
1:B:2121:PHE:HE2	1:B:3702:VAL:CB	1.83	0.91
1:C:500:ALA:O	1:C:503:PHE:HA	1.71	0.91
1:D:1290:ARG:O	1:D:1551:ALA:CB	2.18	0.91
1:D:2121:PHE:HE2	1:D:3702:VAL:CB	1.83	0.91
1:A:1027:LEU:O	1:A:1028:ASP:CB	2.18	0.91
1:A:1164:LEU:O	1:A:1167:GLU:O	1.89	0.91
1:A:1290:ARG:O	1:A:1551:ALA:CB	2.18	0.91
1:B:3658:LYS:HA	1:B:3661:TRP:CD1	2.05	0.91
1:C:1290:ARG:O	1:C:1551:ALA:HB2	1.70	0.91
1:C:4673:ARG:HB3	1:C:4673:ARG:NH1	1.85	0.91
1:C:4942:GLU:CB	1:D:4944:ARG:NH2	2.34	0.91
1:B:1708:ARG:NH1	1:B:1837:GLN:CA	1.96	0.91
1:C:488:LEU:CA	1:C:491:ILE:CB	2.48	0.91
1:C:702:TRP:NE1	1:C:1640:HIS:CB	2.34	0.91
1:C:1287:LEU:CB	1:C:1554:VAL:H	1.72	0.91
1:D:1297:PHE:CG	1:D:1297:PHE:CB	0.86	0.91
1:A:228:ASP:O	1:A:230:CYS:N	2.04	0.91
1:A:1124:PHE:CB	1:A:1130:GLN:C	2.43	0.91
1:B:117:TYR:HD2	1:B:141:ALA:HB2	0.78	0.91
1:C:4945:ASP:O	1:C:4948:GLU:HG3	1.71	0.91
1:D:702:TRP:NE1	1:D:1640:HIS:CB	2.34	0.91
1:D:1290:ARG:N	1:D:1551:ALA:HB1	1.84	0.91
1:D:4235:VAL:CG1	1:D:5019:TRP:CH2	2.51	0.91
1:D:4649:LEU:O	1:D:4653:VAL:HG23	1.68	0.91
1:A:838:HIS:C	1:A:1200:GLY:O	2.14	0.91
1:A:4729:GLY:HA2	1:A:4732:PHE:H	1.34	0.91
1:A:4891:VAL:CG2	1:D:4918:ILE:CG1	2.36	0.91
1:B:1164:LEU:O	1:B:1167:GLU:O	1.89	0.91
1:B:4729:GLY:HA2	1:B:4732:PHE:N	1.86	0.91
1:C:838:HIS:C	1:C:1200:GLY:O	2.14	0.91
1:C:1536:SER:O	1:C:1537:ASN:CB	2.14	0.91
1:C:4729:GLY:HA2	1:C:4732:PHE:N	1.86	0.91
1:D:500:ALA:O	1:D:503:PHE:HA	1.71	0.91
1:D:1290:ARG:O	1:D:1551:ALA:HB2	1.70	0.91
1:A:1290:ARG:O	1:A:1551:ALA:HB2	1.70	0.91
1:B:1124:PHE:CB	1:B:1130:GLN:C	2.43	0.91
1:C:4696:ASP:HA	1:C:4697:VAL:CG1	2.01	0.91
1:D:483:MET:O	1:D:486:LEU:N	2.03	0.91
1:D:2145:SER:CB	1:D:3645:PRO:N	2.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:702:TRP:NE1	1:A:1640:HIS:CB	2.34	0.90
1:A:2451:LEU:HA	1:A:2454:ARG:HB3	1.51	0.90
1:C:788:LYS:CA	1:C:1629:GLN:HA	2.01	0.90
1:C:827:LYS:O	1:C:828:GLU:CB	2.14	0.90
1:D:488:LEU:CA	1:D:491:ILE:CB	2.48	0.90
1:A:4795:TYR:CE1	1:A:4813:LEU:HA	2.05	0.90
1:B:4673:ARG:HB3	1:B:4673:ARG:NH1	1.85	0.90
1:C:2190:VAL:O	1:C:2191:PHE:HB3	1.69	0.90
1:D:838:HIS:C	1:D:1200:GLY:O	2.14	0.90
1:D:1027:LEU:O	1:D:1028:ASP:CB	2.17	0.90
1:B:111:HIS:O	1:B:115:ARG:N	2.02	0.90
1:B:4918:ILE:CG1	1:C:4891:VAL:CG2	2.35	0.90
1:A:720:HIS:C	1:A:728:ARG:O	2.15	0.90
1:A:2243:SER:O	1:A:2247:GLN:N	2.03	0.90
1:B:702:TRP:NE1	1:B:1640:HIS:CB	2.34	0.90
1:B:788:LYS:CA	1:B:1629:GLN:HA	2.01	0.90
1:D:3699:HIS:O	1:D:3702:VAL:N	2.05	0.90
1:A:790:ARG:CA	1:A:1627:ALA:HB2	1.94	0.90
1:B:500:ALA:O	1:B:503:PHE:HA	1.71	0.90
1:B:2243:SER:O	1:B:2247:GLN:N	2.03	0.90
1:D:788:LYS:CA	1:D:1629:GLN:HA	2.01	0.90
1:D:4696:ASP:HA	1:D:4697:VAL:CG1	2.01	0.90
1:B:790:ARG:CA	1:B:1627:ALA:HB2	1.94	0.90
1:B:3699:HIS:O	1:B:3702:VAL:N	2.05	0.90
1:D:1164:LEU:O	1:D:1167:GLU:O	1.89	0.90
1:D:3986:TRP:HB3	1:D:3987:ASP:CA	2.02	0.90
1:D:4729:GLY:HA2	1:D:4732:PHE:N	1.86	0.90
1:A:2161:GLN:HE21	1:A:2178:MET:CB	1.83	0.90
1:A:3658:LYS:HA	1:A:3661:TRP:CD1	2.06	0.90
1:B:4966:ASP:O	1:B:4968:PHE:N	2.02	0.90
1:D:2190:VAL:O	1:D:2191:PHE:HB3	1.70	0.90
1:D:2592:GLY:H	1:D:2595:LEU:H	1.13	0.90
1:B:4195:PHE:CE2	1:B:4991:PHE:CG	2.57	0.90
1:C:228:ASP:O	1:C:230:CYS:N	2.04	0.90
1:C:4222:VAL:CB	1:C:4950:VAL:HG22	2.01	0.90
1:B:2536:LEU:O	1:B:2541:PHE:HA	1.69	0.90
1:C:4935:LEU:CD2	1:D:4940:PHE:CE2	2.55	0.90
1:D:720:HIS:C	1:D:728:ARG:O	2.15	0.90
1:B:219:VAL:CB	1:B:260:TRP:O	2.20	0.90
1:B:228:ASP:O	1:B:230:CYS:N	2.04	0.90
1:D:4555:LEU:CA	1:D:4558:ASN:CB	2.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3986:TRP:HB3	1:A:3987:ASP:CA	2.02	0.89
1:A:4729:GLY:HA2	1:A:4732:PHE:N	1.86	0.89
1:A:788:LYS:CA	1:A:1629:GLN:HA	2.01	0.89
1:B:720:HIS:C	1:B:728:ARG:O	2.15	0.89
1:B:838:HIS:C	1:B:1200:GLY:O	2.14	0.89
1:B:1229:ASN:HA	1:B:1826:ALA:C	1.97	0.89
1:C:720:HIS:C	1:C:728:ARG:O	2.15	0.89
1:C:1164:LEU:O	1:C:1167:GLU:O	1.89	0.89
1:C:1229:ASN:HA	1:C:1826:ALA:C	1.97	0.89
1:C:3658:LYS:HA	1:C:3661:TRP:CD1	2.06	0.89
1:D:2449:GLU:O	1:D:2450:ALA:HB3	1.69	0.89
1:A:219:VAL:CB	1:A:260:TRP:O	2.20	0.89
1:D:229:GLU:CB	1:D:248:GLU:O	2.20	0.89
1:A:117:TYR:HD2	1:A:141:ALA:HB2	0.78	0.89
1:A:2449:GLU:O	1:A:2450:ALA:HB3	1.69	0.89
1:A:4555:LEU:CA	1:A:4558:ASN:CB	2.50	0.89
1:B:229:GLU:CB	1:B:248:GLU:O	2.20	0.89
1:C:3986:TRP:HB3	1:C:3987:ASP:CA	2.02	0.89
1:B:1708:ARG:HH12	1:B:1837:GLN:CB	1.85	0.89
1:B:4696:ASP:HA	1:B:4697:VAL:CG1	2.01	0.89
1:C:4935:LEU:HD22	1:D:4940:PHE:HE2	1.35	0.89
1:A:500:ALA:O	1:A:503:PHE:HA	1.71	0.89
1:A:504:ALA:O	1:A:505:GLU:CB	2.21	0.89
1:B:4555:LEU:CA	1:B:4558:ASN:CB	2.50	0.89
1:C:1440:PHE:O	1:C:1441:ALA:HB2	1.71	0.89
1:C:4555:LEU:CA	1:C:4558:ASN:CB	2.50	0.89
1:A:229:GLU:CB	1:A:248:GLU:O	2.20	0.89
1:A:1708:ARG:HH12	1:A:1837:GLN:CB	1.85	0.89
1:C:117:TYR:CD2	1:C:141:ALA:CB	2.53	0.89
1:C:2536:LEU:O	1:C:2541:PHE:HA	1.69	0.89
1:D:219:VAL:CB	1:D:260:TRP:O	2.20	0.89
1:D:228:ASP:O	1:D:230:CYS:N	2.04	0.89
1:D:1708:ARG:NH1	1:D:1837:GLN:CA	1.96	0.89
1:A:4182:GLU:CD	1:A:4988:TYR:HB2	1.97	0.89
1:A:4696:ASP:HA	1:A:4697:VAL:CG1	2.01	0.89
1:A:4978:HIS:O	1:A:4982:GLU:CB	2.21	0.89
1:A:250:GLY:O	1:A:253:CYS:CB	2.21	0.89
1:A:3934:TYR:OH	1:A:3998:HIS:HB3	1.73	0.89
1:C:3699:HIS:O	1:C:3702:VAL:N	2.05	0.89
1:A:4783:ILE:HD11	1:A:4789:PHE:CE1	2.08	0.89
1:B:1440:PHE:O	1:B:1441:ALA:HB2	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:504:ALA:O	1:C:505:GLU:CB	2.21	0.89
1:C:4978:HIS:HE1	1:C:4983:HIS:NE2	1.46	0.89
1:A:499:THR:N	1:A:500:ALA:HA	1.86	0.88
1:A:3699:HIS:O	1:A:3702:VAL:N	2.05	0.88
1:B:318:VAL:HA	1:B:346:CYS:CB	2.03	0.88
1:B:2190:VAL:O	1:B:2191:PHE:HB3	1.69	0.88
1:B:3934:TYR:OH	1:B:3998:HIS:HB3	1.73	0.88
1:C:219:VAL:CB	1:C:260:TRP:O	2.20	0.88
1:C:1708:ARG:HH12	1:C:1837:GLN:CB	1.85	0.88
1:D:504:ALA:O	1:D:505:GLU:CB	2.21	0.88
1:D:3658:LYS:HA	1:D:3661:TRP:CD1	2.06	0.88
1:A:3213:TYR:CB	1:A:3303:PRO:CB	2.51	0.88
1:B:4966:ASP:O	1:B:4967:TYR:C	2.16	0.88
1:D:721:LEU:CB	1:D:728:ARG:O	2.21	0.88
1:A:4183:ILE:HG21	1:A:4190:ILE:HG12	1.56	0.88
1:B:318:VAL:CA	1:B:346:CYS:CB	2.52	0.88
1:B:3213:TYR:CB	1:B:3303:PRO:CB	2.51	0.88
1:B:4978:HIS:HE2	1:B:4983:HIS:HD2	0.92	0.88
1:C:77:ALA:HB1	1:D:3935:TRP:HE1	1.38	0.88
1:C:3934:TYR:OH	1:C:3998:HIS:HB3	1.73	0.88
1:D:1229:ASN:HA	1:D:1826:ALA:C	1.97	0.88
1:D:1708:ARG:HH12	1:D:1837:GLN:CB	1.85	0.88
1:B:3986:TRP:HB3	1:B:3987:ASP:CA	2.02	0.88
1:B:4545:GLU:O	1:B:4549:VAL:HG23	1.74	0.88
1:D:318:VAL:HA	1:D:346:CYS:CB	2.03	0.88
1:D:1440:PHE:O	1:D:1441:ALA:HB2	1.71	0.88
1:A:318:VAL:CA	1:A:346:CYS:CB	2.52	0.88
1:A:3933:PHE:HZ	1:A:3951:PHE:CD2	1.85	0.88
1:B:4183:ILE:HG21	1:B:4190:ILE:HG12	1.55	0.88
1:B:4778:TRP:O	1:B:4782:VAL:HG23	1.74	0.88
1:D:4235:VAL:CG1	1:D:5019:TRP:CZ3	2.56	0.88
1:D:4978:HIS:HE2	1:D:4983:HIS:HD2	0.92	0.88
1:B:721:LEU:CB	1:B:728:ARG:O	2.22	0.88
1:B:4783:ILE:HD11	1:B:4789:PHE:CE1	2.08	0.88
1:C:229:GLU:CB	1:C:248:GLU:O	2.20	0.88
1:C:1027:LEU:O	1:C:1028:ASP:CB	2.18	0.88
1:C:4183:ILE:HG21	1:C:4190:ILE:HG12	1.55	0.88
1:C:4778:TRP:O	1:C:4782:VAL:HG23	1.74	0.88
1:D:4183:ILE:HG21	1:D:4190:ILE:HG12	1.56	0.88
1:D:4779:LYS:O	1:D:4783:ILE:HG22	1.74	0.88
1:A:318:VAL:HA	1:A:346:CYS:CB	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1229:ASN:HA	1:A:1826:ALA:C	1.97	0.88
1:A:4696:ASP:CA	1:A:4697:VAL:HG13	2.04	0.88
1:B:499:THR:N	1:B:500:ALA:HA	1.86	0.88
1:B:2592:GLY:H	1:B:2595:LEU:H	1.13	0.88
1:B:3987:ASP:H	1:B:3990:VAL:H	0.89	0.88
1:C:250:GLY:O	1:C:253:CYS:CB	2.21	0.88
1:C:1203:ASN:HA	1:C:1204:LEU:CB	2.04	0.88
1:C:3933:PHE:CE1	1:C:3951:PHE:CD2	2.62	0.88
1:D:250:GLY:O	1:D:253:CYS:CB	2.21	0.88
1:D:1126:GLY:C	1:D:1143:TRP:CB	2.47	0.88
1:D:4696:ASP:CA	1:D:4697:VAL:HG13	2.04	0.88
1:D:4966:ASP:O	1:D:4967:TYR:C	2.16	0.88
1:A:1440:PHE:O	1:A:1441:ALA:HB2	1.71	0.88
1:B:3933:PHE:CE1	1:B:3951:PHE:CD2	2.62	0.88
1:C:292:ALA:C	1:C:311:ALA:HB3	1.99	0.88
1:A:77:ALA:HB1	1:B:3935:TRP:HE1	1.38	0.88
1:B:250:GLY:O	1:B:253:CYS:CB	2.21	0.88
1:B:4235:VAL:CG1	1:B:5019:TRP:CZ3	2.56	0.88
1:B:4779:LYS:O	1:B:4783:ILE:HG22	1.74	0.88
1:C:721:LEU:CB	1:C:728:ARG:O	2.22	0.88
1:C:4783:ILE:HD11	1:C:4789:PHE:CE1	2.08	0.88
1:A:162:LYS:O	1:A:164:ARG:N	2.07	0.88
1:C:4555:LEU:O	1:C:4559:PHE:N	2.08	0.88
1:D:117:TYR:HD2	1:D:141:ALA:HB2	0.78	0.88
1:D:162:LYS:O	1:D:164:ARG:N	2.07	0.88
1:D:4217:PHE:O	1:D:4221:VAL:HG23	1.74	0.88
1:A:1126:GLY:C	1:A:1143:TRP:CB	2.47	0.87
1:A:3935:TRP:HE1	1:D:77:ALA:HB1	1.38	0.87
1:A:4195:PHE:CE2	1:A:4991:PHE:CG	2.47	0.87
1:A:4235:VAL:CG1	1:A:5019:TRP:CZ3	2.56	0.87
1:A:4570:ALA:HB1	1:A:4813:LEU:CB	2.04	0.87
1:C:1126:GLY:C	1:C:1143:TRP:CB	2.47	0.87
1:C:4779:LYS:O	1:C:4783:ILE:HG22	1.74	0.87
1:C:4928:LEU:HA	1:C:4931:ILE:CD1	2.04	0.87
1:D:499:THR:N	1:D:500:ALA:HA	1.86	0.87
1:D:3213:TYR:CB	1:D:3303:PRO:CB	2.51	0.87
1:D:3933:PHE:CE1	1:D:3951:PHE:CD2	2.62	0.87
1:D:4545:GLU:O	1:D:4549:VAL:HG23	1.74	0.87
1:A:1203:ASN:HA	1:A:1204:LEU:CB	2.04	0.87
1:A:4779:LYS:O	1:A:4783:ILE:HG22	1.74	0.87
1:D:4978:HIS:O	1:D:4982:GLU:CB	2.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4545:GLU:O	1:A:4549:VAL:HG23	1.74	0.87
1:A:4891:VAL:HG21	1:D:4918:ILE:HG13	0.88	0.87
1:B:504:ALA:O	1:B:505:GLU:CB	2.21	0.87
1:B:4222:VAL:CB	1:B:4950:VAL:HG22	2.03	0.87
1:C:3213:TYR:CB	1:C:3303:PRO:CB	2.51	0.87
1:C:4978:HIS:O	1:C:4982:GLU:CB	2.21	0.87
1:D:119:SER:O	1:D:136:GLY:O	1.93	0.87
1:A:4090:LYS:N	1:A:4121:GLU:CB	2.38	0.87
1:B:4570:ALA:HB1	1:B:4813:LEU:CB	2.04	0.87
1:C:4235:VAL:CG1	1:C:5019:TRP:CZ3	2.56	0.87
1:D:4570:ALA:HB1	1:D:4813:LEU:CB	2.04	0.87
1:A:3933:PHE:CE1	1:A:3951:PHE:CD2	2.62	0.87
1:A:4217:PHE:O	1:A:4221:VAL:HG23	1.74	0.87
1:B:77:ALA:HB1	1:C:3935:TRP:HE1	1.38	0.87
1:B:1203:ASN:HA	1:B:1204:LEU:CB	2.04	0.87
1:B:4834:GLY:HA2	1:B:4837:LEU:HB3	1.57	0.87
1:C:4105:GLY:O	1:C:4108:ILE:HG13	1.75	0.87
1:D:4778:TRP:O	1:D:4782:VAL:HG23	1.74	0.87
1:A:721:LEU:CB	1:A:728:ARG:O	2.22	0.87
1:B:3823:LYS:C	1:B:3825:GLU:H	1.81	0.87
1:C:318:VAL:CA	1:C:346:CYS:CB	2.52	0.87
1:C:500:ALA:CB	1:C:515:TRP:CH2	2.58	0.87
1:D:292:ALA:C	1:D:311:ALA:HB3	1.99	0.87
1:D:318:VAL:CA	1:D:346:CYS:CB	2.52	0.87
1:D:1203:ASN:HA	1:D:1204:LEU:CB	2.04	0.87
1:D:4783:ILE:HD11	1:D:4789:PHE:CE1	2.08	0.87
1:D:4928:LEU:HA	1:D:4931:ILE:CD1	2.04	0.87
1:B:4696:ASP:CA	1:B:4697:VAL:HG13	2.04	0.87
1:B:4918:ILE:HG13	1:C:4891:VAL:HG21	0.87	0.87
1:B:4928:LEU:HA	1:B:4931:ILE:CD1	2.05	0.87
1:C:4570:ALA:HB1	1:C:4813:LEU:CB	2.04	0.87
1:D:3934:TYR:OH	1:D:3998:HIS:HB3	1.73	0.87
1:A:4195:PHE:CZ	1:A:4991:PHE:CB	2.49	0.87
1:A:4935:LEU:CD2	1:B:4940:PHE:HE2	1.88	0.87
1:B:4090:LYS:N	1:B:4121:GLU:CB	2.38	0.87
1:B:4978:HIS:O	1:B:4982:GLU:CB	2.21	0.87
1:C:4696:ASP:CA	1:C:4697:VAL:HG13	2.04	0.87
1:C:4918:ILE:HG13	1:D:4891:VAL:HG21	0.87	0.87
1:A:4778:TRP:O	1:A:4782:VAL:HG23	1.74	0.87
1:A:4966:ASP:O	1:A:4967:TYR:C	2.16	0.87
1:B:119:SER:O	1:B:136:GLY:O	1.93	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:TYR:CD2	1:A:141:ALA:CB	2.53	0.86
1:A:4928:LEU:HA	1:A:4931:ILE:CD1	2.04	0.86
1:B:4105:GLY:O	1:B:4108:ILE:HG13	1.75	0.86
1:C:1086:GLY:O	1:C:1155:LEU:N	2.08	0.86
1:C:4966:ASP:O	1:C:4967:TYR:C	2.16	0.86
1:A:701:GLY:N	1:A:1645:ASN:O	2.08	0.86
1:B:500:ALA:CB	1:B:515:TRP:CH2	2.58	0.86
1:B:1124:PHE:HB2	1:B:1131:ARG:N	1.90	0.86
1:B:1126:GLY:C	1:B:1143:TRP:CB	2.47	0.86
1:C:1237:TRP:HA	1:C:1611:HIS:HA	1.56	0.86
1:D:3987:ASP:H	1:D:3990:VAL:H	0.89	0.86
1:D:4555:LEU:O	1:D:4559:PHE:N	2.08	0.86
1:B:4217:PHE:O	1:B:4221:VAL:HG23	1.74	0.86
1:C:318:VAL:HA	1:C:346:CYS:CB	2.03	0.86
1:C:3708:THR:O	1:C:3710:LEU:HA	1.74	0.86
1:C:4545:GLU:O	1:C:4549:VAL:HG23	1.74	0.86
1:D:509:GLU:O	1:D:512:ALA:N	2.08	0.86
1:D:1237:TRP:HA	1:D:1611:HIS:CB	2.05	0.86
1:A:4978:HIS:HE2	1:A:4983:HIS:HD2	0.92	0.86
1:B:3933:PHE:HZ	1:B:3951:PHE:CD2	1.85	0.86
1:B:4555:LEU:O	1:B:4559:PHE:N	2.08	0.86
1:C:3987:ASP:H	1:C:3990:VAL:H	0.89	0.86
1:C:5021:PHE:CE1	1:C:5022:PHE:HD1	1.94	0.86
1:D:117:TYR:CD2	1:D:141:ALA:CB	2.53	0.86
1:D:4105:GLY:O	1:D:4108:ILE:HG13	1.75	0.86
1:D:4834:GLY:HA2	1:D:4837:LEU:HB3	1.57	0.86
1:B:1721:GLU:O	1:B:1724:CYS:N	2.09	0.86
1:B:3070:ILE:O	1:B:3073:ARG:N	2.09	0.86
1:C:499:THR:N	1:C:500:ALA:HA	1.86	0.86
1:C:3823:LYS:C	1:C:3825:GLU:H	1.81	0.86
1:C:4720:VAL:O	1:C:4724:VAL:HG23	1.76	0.86
1:D:1246:GLU:O	1:D:1601:MET:O	1.93	0.86
1:D:3708:THR:O	1:D:3710:LEU:HA	1.74	0.86
1:D:4720:VAL:O	1:D:4724:VAL:HG23	1.75	0.86
1:D:5021:PHE:CE1	1:D:5022:PHE:HD1	1.94	0.86
1:A:1124:PHE:HB2	1:A:1131:ARG:N	1.90	0.86
1:A:1246:GLU:O	1:A:1601:MET:O	1.93	0.86
1:A:4697:VAL:HG23	1:A:4698:LYS:CB	2.06	0.86
1:B:701:GLY:N	1:B:1645:ASN:O	2.08	0.86
1:C:119:SER:O	1:C:136:GLY:O	1.93	0.86
1:C:162:LYS:O	1:C:164:ARG:N	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:509:GLU:O	1:C:512:ALA:N	2.08	0.86
1:D:1096:THR:CB	1:D:1198:GLN:CB	2.54	0.86
1:D:3823:LYS:C	1:D:3825:GLU:H	1.81	0.86
1:D:4697:VAL:H	1:D:4699:GLY:N	1.73	0.86
1:A:500:ALA:CB	1:A:515:TRP:CH2	2.58	0.86
1:A:509:GLU:O	1:A:512:ALA:N	2.08	0.86
1:D:1085:SER:CA	1:D:1155:LEU:CB	2.54	0.86
1:D:4090:LYS:N	1:D:4121:GLU:CB	2.38	0.86
1:A:4141:PHE:O	1:A:4145:VAL:HG23	1.75	0.86
1:B:162:LYS:O	1:B:164:ARG:N	2.07	0.86
1:B:4697:VAL:HG23	1:B:4698:LYS:CB	2.06	0.86
1:C:1096:THR:CB	1:C:1198:GLN:CB	2.54	0.86
1:C:1217:CYS:O	1:C:1221:GLU:N	2.09	0.86
1:C:4952:GLU:O	1:C:4956:THR:HG23	1.75	0.86
1:D:4696:ASP:CB	1:D:4697:VAL:HG21	2.06	0.86
1:A:5021:PHE:CE1	1:A:5022:PHE:HD1	1.94	0.86
1:C:117:TYR:HD2	1:C:141:ALA:HB2	0.78	0.86
1:C:1708:ARG:NH1	1:C:1837:GLN:CA	1.96	0.86
1:C:4697:VAL:H	1:C:4699:GLY:N	1.73	0.86
1:D:1237:TRP:HA	1:D:1611:HIS:HA	1.56	0.86
1:A:1828:ASP:CB	1:A:1829:PRO:HA	2.06	0.86
1:A:3708:THR:O	1:A:3710:LEU:HA	1.74	0.86
1:A:4180:ARG:H	1:A:4181:ILE:CD1	1.89	0.86
1:B:1828:ASP:CB	1:B:1829:PRO:HA	2.06	0.86
1:B:3708:THR:O	1:B:3710:LEU:HA	1.74	0.86
1:B:4141:PHE:HA	1:B:4174:PHE:HD2	1.41	0.86
1:C:1085:SER:CA	1:C:1155:LEU:CB	2.54	0.86
1:C:1828:ASP:CB	1:C:1829:PRO:HA	2.06	0.86
1:C:4235:VAL:HG11	1:C:5019:TRP:HH2	1.00	0.86
1:C:4915:VAL:O	1:C:4919:THR:HG22	1.76	0.86
1:D:500:ALA:CB	1:D:515:TRP:CH2	2.58	0.86
1:D:4915:VAL:O	1:D:4919:THR:HG22	1.76	0.86
1:A:119:SER:O	1:A:136:GLY:O	1.93	0.85
1:A:1237:TRP:HA	1:A:1611:HIS:CA	2.05	0.85
1:A:1721:GLU:O	1:A:1724:CYS:N	2.09	0.85
1:A:4834:GLY:HA2	1:A:4837:LEU:HB3	1.57	0.85
1:A:4937:ILE:HD11	1:D:4934:GLY:HA3	1.32	0.85
1:B:1096:THR:CB	1:B:1198:GLN:CB	2.54	0.85
1:B:4180:ARG:H	1:B:4181:ILE:CD1	1.89	0.85
1:B:4243:PHE:HD2	1:B:4671:PHE:CZ	1.67	0.85
1:B:4836:GLN:O	1:B:4840:THR:HG23	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4891:VAL:O	1:B:4893:ALA:HA	1.76	0.85
1:B:4915:VAL:O	1:B:4919:THR:HG22	1.76	0.85
1:B:5021:PHE:CE1	1:B:5022:PHE:HD1	1.94	0.85
1:C:1237:TRP:HA	1:C:1611:HIS:CA	2.05	0.85
1:C:1285:GLU:HA	1:C:1286:MET:CB	2.06	0.85
1:D:4180:ARG:H	1:D:4181:ILE:CD1	1.89	0.85
1:A:2130:GLY:O	1:A:2132:GLY:N	2.09	0.85
1:A:3987:ASP:H	1:A:3990:VAL:H	0.89	0.85
1:A:4663:CYS:O	1:A:4666:VAL:HG12	1.76	0.85
1:A:4891:VAL:O	1:A:4893:ALA:HA	1.76	0.85
1:B:112:ALA:HA	1:B:115:ARG:H	1.40	0.85
1:B:292:ALA:C	1:B:311:ALA:HB3	1.99	0.85
1:B:1085:SER:CA	1:B:1155:LEU:CB	2.54	0.85
1:B:1217:CYS:O	1:B:1221:GLU:N	2.09	0.85
1:B:1237:TRP:HA	1:B:1611:HIS:CB	2.05	0.85
1:B:2274:ASP:O	1:B:2277:ALA:HB3	1.76	0.85
1:B:4141:PHE:O	1:B:4145:VAL:HG23	1.75	0.85
1:C:4090:LYS:N	1:C:4121:GLU:CB	2.38	0.85
1:C:4836:GLN:O	1:C:4840:THR:HG23	1.76	0.85
1:C:4942:GLU:CB	1:D:4944:ARG:HH22	1.89	0.85
1:D:4663:CYS:O	1:D:4666:VAL:HG12	1.76	0.85
1:D:4891:VAL:O	1:D:4893:ALA:HA	1.76	0.85
1:A:112:ALA:HA	1:A:115:ARG:H	1.40	0.85
1:A:4222:VAL:CB	1:A:4950:VAL:HG22	2.04	0.85
1:A:4687:TYR:CA	1:A:4691:GLN:HA	2.06	0.85
1:A:4795:TYR:CZ	1:A:4813:LEU:HA	2.11	0.85
1:B:117:TYR:CD2	1:B:141:ALA:CB	2.53	0.85
1:B:1086:GLY:O	1:B:1155:LEU:N	2.08	0.85
1:B:1237:TRP:HA	1:B:1611:HIS:CA	2.05	0.85
1:C:1237:TRP:HA	1:C:1611:HIS:CB	2.05	0.85
1:C:1525:GLY:O	1:C:1541:GLN:CB	2.25	0.85
1:C:3070:ILE:O	1:C:3073:ARG:N	2.09	0.85
1:D:1525:GLY:O	1:D:1541:GLN:CB	2.25	0.85
1:D:2130:GLY:O	1:D:2132:GLY:N	2.09	0.85
1:A:292:ALA:C	1:A:311:ALA:HB3	1.99	0.85
1:A:1525:GLY:O	1:A:1541:GLN:CB	2.25	0.85
1:A:3070:ILE:O	1:A:3073:ARG:N	2.09	0.85
1:A:4105:GLY:O	1:A:4108:ILE:HG13	1.75	0.85
1:B:1285:GLU:HA	1:B:1286:MET:CB	2.06	0.85
1:B:2883:HIS:O	1:B:2887:GLY:N	2.09	0.85
1:B:4851:TYR:O	1:B:4854:VAL:HG23	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1721:GLU:O	1:C:1724:CYS:N	2.08	0.85
1:C:4125:PHE:O	1:C:4128:PHE:N	2.10	0.85
1:C:4180:ARG:H	1:C:4181:ILE:CD1	1.89	0.85
1:C:4217:PHE:O	1:C:4221:VAL:HG23	1.74	0.85
1:D:1237:TRP:HA	1:D:1611:HIS:CA	2.05	0.85
1:D:3070:ILE:O	1:D:3073:ARG:N	2.09	0.85
1:D:4125:PHE:O	1:D:4128:PHE:N	2.10	0.85
1:D:4141:PHE:O	1:D:4145:VAL:HG23	1.75	0.85
1:A:4720:VAL:O	1:A:4724:VAL:HG23	1.75	0.85
1:B:1237:TRP:HA	1:B:1611:HIS:HA	1.56	0.85
1:C:638:ILE:O	1:C:1636:MET:N	2.09	0.85
1:C:2274:ASP:O	1:C:2277:ALA:HB3	1.76	0.85
1:C:4141:PHE:O	1:C:4145:VAL:HG23	1.75	0.85
1:D:638:ILE:O	1:D:1636:MET:N	2.09	0.85
1:D:4795:TYR:CZ	1:D:4813:LEU:HA	2.11	0.85
1:A:3823:LYS:C	1:A:3825:GLU:H	1.81	0.85
1:A:4243:PHE:HD2	1:A:4671:PHE:CZ	1.67	0.85
1:B:509:GLU:O	1:B:512:ALA:N	2.08	0.85
1:B:2130:GLY:O	1:B:2132:GLY:N	2.09	0.85
1:B:4998:LYS:O	1:B:5002:GLU:CB	2.25	0.85
1:C:1124:PHE:HB2	1:C:1131:ARG:N	1.90	0.85
1:D:38:ALA:O	1:D:47:CYS:CB	2.25	0.85
1:D:1124:PHE:HB2	1:D:1131:ARG:N	1.90	0.85
1:D:1285:GLU:HA	1:D:1286:MET:CB	2.06	0.85
1:D:4885:PHE:CZ	1:D:4889:VAL:HG11	2.12	0.85
1:A:638:ILE:O	1:A:1636:MET:N	2.09	0.85
1:A:2274:ASP:O	1:A:2277:ALA:HB3	1.76	0.85
1:A:4125:PHE:O	1:A:4128:PHE:N	2.10	0.85
1:A:4697:VAL:H	1:A:4699:GLY:N	1.73	0.85
1:A:4836:GLN:O	1:A:4840:THR:HG23	1.76	0.85
1:A:4915:VAL:O	1:A:4919:THR:HG22	1.76	0.85
1:B:1525:GLY:O	1:B:1541:GLN:CB	2.25	0.85
1:C:2883:HIS:O	1:C:2887:GLY:N	2.09	0.85
1:D:1217:CYS:O	1:D:1221:GLU:N	2.09	0.85
1:D:2883:HIS:O	1:D:2887:GLY:N	2.09	0.85
1:D:4697:VAL:HG23	1:D:4698:LYS:CB	2.06	0.85
1:D:5031:GLN:HG3	1:D:5032:TYR:CD1	2.12	0.85
1:A:77:ALA:CA	1:B:3935:TRP:HE1	1.89	0.85
1:A:1096:THR:CB	1:A:1198:GLN:CB	2.54	0.85
1:A:4851:TYR:O	1:A:4854:VAL:HG23	1.77	0.85
1:A:5031:GLN:HG3	1:A:5032:TYR:CD1	2.12	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5031:GLN:HG3	1:C:5032:TYR:CD1	2.12	0.85
1:D:1096:THR:N	1:D:1199:VAL:O	2.10	0.85
1:D:1721:GLU:O	1:D:1724:CYS:N	2.09	0.85
1:A:1237:TRP:HA	1:A:1611:HIS:CB	2.05	0.85
1:A:1237:TRP:HA	1:A:1611:HIS:HA	1.56	0.85
1:A:4229:GLU:O	1:A:4233:LEU:HG	1.77	0.85
1:A:4555:LEU:O	1:A:4559:PHE:N	2.08	0.85
1:C:1246:GLU:O	1:C:1601:MET:O	1.93	0.85
1:C:4243:PHE:HD2	1:C:4671:PHE:CZ	1.67	0.85
1:C:4795:TYR:CZ	1:C:4813:LEU:HA	2.11	0.85
1:D:112:ALA:HA	1:D:115:ARG:H	1.40	0.85
1:B:1096:THR:N	1:B:1199:VAL:O	2.10	0.85
1:C:460:GLN:C	1:C:462:GLU:N	2.34	0.85
1:C:2130:GLY:O	1:C:2132:GLY:N	2.09	0.85
1:C:4998:LYS:O	1:C:5002:GLU:CB	2.25	0.85
1:D:701:GLY:N	1:D:1645:ASN:O	2.08	0.85
1:D:784:SER:O	1:D:785:ALA:CB	2.25	0.85
1:D:2191:PHE:HD1	1:D:2192:TYR:CD1	1.95	0.85
1:D:2274:ASP:O	1:D:2277:ALA:HB3	1.76	0.85
1:A:1085:SER:CA	1:A:1155:LEU:CB	2.54	0.84
1:A:1217:CYS:O	1:A:1221:GLU:N	2.09	0.84
1:A:4998:LYS:O	1:A:5002:GLU:CB	2.25	0.84
1:B:2191:PHE:HD1	1:B:2192:TYR:CD1	1.95	0.84
1:B:4720:VAL:O	1:B:4724:VAL:HG23	1.76	0.84
1:C:3987:ASP:N	1:C:3990:VAL:H	1.74	0.84
1:C:4195:PHE:HE2	1:C:4991:PHE:CA	1.88	0.84
1:D:3987:ASP:N	1:D:3990:VAL:H	1.74	0.84
1:D:4996:ILE:HG22	1:D:4997:ASN:OD1	1.77	0.84
1:D:4998:LYS:O	1:D:5002:GLU:CB	2.25	0.84
1:A:1096:THR:N	1:A:1199:VAL:O	2.10	0.84
1:B:4125:PHE:O	1:B:4128:PHE:N	2.10	0.84
1:B:4687:TYR:CA	1:B:4691:GLN:HA	2.05	0.84
1:C:1243:PRO:CB	1:C:1605:TRP:O	2.25	0.84
1:C:4141:PHE:HA	1:C:4174:PHE:HD2	1.41	0.84
1:C:4885:PHE:CZ	1:C:4889:VAL:HG11	2.12	0.84
1:D:3823:LYS:O	1:D:3825:GLU:N	2.11	0.84
1:A:1285:GLU:HA	1:A:1286:MET:CB	2.06	0.84
1:A:4885:PHE:CZ	1:A:4889:VAL:HG11	2.12	0.84
1:B:4795:TYR:CZ	1:B:4813:LEU:HA	2.11	0.84
1:B:5003:HIS:O	1:B:5008:SER:N	2.10	0.84
1:C:38:ALA:O	1:C:47:CYS:CB	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1708:ARG:HH11	1:C:1837:GLN:HA	1.41	0.84
1:C:4996:ILE:HG22	1:C:4997:ASN:OD1	1.77	0.84
1:D:4677:LEU:HD23	1:D:4711:PHE:HZ	0.73	0.84
1:D:4851:TYR:O	1:D:4854:VAL:HG23	1.77	0.84
1:A:2191:PHE:HD1	1:A:2192:TYR:CD1	1.95	0.84
1:C:1096:THR:N	1:C:1199:VAL:O	2.10	0.84
1:C:3987:ASP:H	1:C:3990:VAL:N	1.75	0.84
1:C:4891:VAL:O	1:C:4893:ALA:HA	1.76	0.84
1:C:5021:PHE:CE1	1:C:5022:PHE:CD1	2.66	0.84
1:D:5021:PHE:CE1	1:D:5022:PHE:CD1	2.66	0.84
1:A:38:ALA:O	1:A:47:CYS:CB	2.25	0.84
1:A:4918:ILE:HG13	1:B:4891:VAL:HG21	0.87	0.84
1:B:1246:GLU:O	1:B:1601:MET:O	1.93	0.84
1:B:3987:ASP:N	1:B:3990:VAL:H	1.74	0.84
1:B:4229:GLU:O	1:B:4233:LEU:HG	1.77	0.84
1:B:4663:CYS:O	1:B:4666:VAL:HG12	1.76	0.84
1:B:4885:PHE:CZ	1:B:4889:VAL:HG11	2.12	0.84
1:C:701:GLY:N	1:C:1645:ASN:O	2.08	0.84
1:C:4697:VAL:HG23	1:C:4698:LYS:CB	2.06	0.84
1:C:4851:TYR:O	1:C:4854:VAL:HG23	1.77	0.84
1:D:1828:ASP:CB	1:D:1829:PRO:HA	2.06	0.84
1:A:2883:HIS:O	1:A:2887:GLY:N	2.09	0.84
1:A:3935:TRP:HE1	1:D:77:ALA:CA	1.89	0.84
1:A:4235:VAL:CB	1:A:5019:TRP:CZ3	2.61	0.84
1:A:4696:ASP:CB	1:A:4697:VAL:HG21	2.06	0.84
1:B:38:ALA:O	1:B:47:CYS:CB	2.25	0.84
1:B:302:VAL:C	1:B:307:ALA:HB2	2.03	0.84
1:B:1243:PRO:CB	1:B:1605:TRP:O	2.25	0.84
1:B:4697:VAL:H	1:B:4699:GLY:N	1.73	0.84
1:C:2452:ARG:O	1:C:2455:ALA:HB3	1.78	0.84
1:D:4687:TYR:CA	1:D:4691:GLN:HA	2.05	0.84
1:A:3987:ASP:H	1:A:3990:VAL:N	1.75	0.84
1:A:4180:ARG:H	1:A:4181:ILE:HD13	1.43	0.84
1:B:638:ILE:O	1:B:1636:MET:N	2.09	0.84
1:B:4701:TRP:HH2	1:B:4781:GLY:HA2	1.42	0.84
1:B:5021:PHE:CE1	1:B:5022:PHE:CD1	2.65	0.84
1:C:112:ALA:HA	1:C:115:ARG:H	1.40	0.84
1:C:302:VAL:C	1:C:307:ALA:HB2	2.03	0.84
1:C:4687:TYR:CA	1:C:4691:GLN:HA	2.06	0.84
1:D:685:GLY:HA3	1:D:713:SER:CA	2.07	0.84
1:D:1163:THR:HA	1:D:1168:VAL:HA	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4125:PHE:CD1	1:D:4126:GLU:N	2.46	0.84
1:D:4235:VAL:CB	1:D:5019:TRP:CZ3	2.61	0.84
1:D:4836:GLN:O	1:D:4840:THR:HG23	1.76	0.84
1:A:1163:THR:HA	1:A:1168:VAL:HA	1.59	0.84
1:A:1243:PRO:CB	1:A:1605:TRP:O	2.25	0.84
1:A:5021:PHE:CE1	1:A:5022:PHE:CD1	2.65	0.84
1:B:3823:LYS:O	1:B:3825:GLU:N	2.11	0.84
1:C:4125:PHE:CD1	1:C:4126:GLU:N	2.46	0.84
1:C:4696:ASP:CB	1:C:4697:VAL:HG21	2.06	0.84
1:D:4180:ARG:H	1:D:4181:ILE:HD13	1.43	0.84
1:D:4222:VAL:CB	1:D:4950:VAL:HG22	2.07	0.84
1:A:784:SER:O	1:A:785:ALA:CB	2.25	0.84
1:C:3823:LYS:O	1:C:3825:GLU:N	2.11	0.84
1:D:5003:HIS:O	1:D:5008:SER:N	2.10	0.84
1:B:4125:PHE:CD1	1:B:4126:GLU:N	2.45	0.84
1:C:77:ALA:CA	1:D:3935:TRP:HE1	1.88	0.84
1:C:2191:PHE:HD1	1:C:2192:TYR:CD1	1.95	0.84
1:D:1243:PRO:CB	1:D:1605:TRP:O	2.25	0.84
1:D:4195:PHE:CE2	1:D:4991:PHE:CG	2.57	0.84
1:A:1461:ASP:HA	1:A:1462:MET:CB	2.08	0.83
1:B:4996:ILE:HG22	1:B:4997:ASN:OD1	1.77	0.83
1:C:4207:MET:CB	1:C:4208:PRO:HD2	2.08	0.83
1:D:302:VAL:C	1:D:307:ALA:HB2	2.03	0.83
1:D:4687:TYR:CA	1:D:4691:GLN:CA	2.52	0.83
1:B:3934:TYR:CZ	1:B:3998:HIS:HB3	2.13	0.83
1:B:4207:MET:CB	1:B:4208:PRO:HD2	2.08	0.83
1:B:5031:GLN:HG3	1:B:5032:TYR:CD1	2.12	0.83
1:C:4656:LEU:HD22	1:C:4656:LEU:O	1.78	0.83
1:D:4141:PHE:HA	1:D:4174:PHE:HD2	1.41	0.83
1:D:4229:GLU:O	1:D:4233:LEU:HG	1.77	0.83
1:A:4125:PHE:CD1	1:A:4126:GLU:N	2.46	0.83
1:A:4195:PHE:CE2	1:A:4991:PHE:HD2	1.94	0.83
1:D:4656:LEU:O	1:D:4656:LEU:HD22	1.78	0.83
1:B:2452:ARG:O	1:B:2455:ALA:HB3	1.78	0.83
1:C:3902:TYR:CE1	1:C:3906:GLN:CB	2.62	0.83
1:A:682:LEU:HA	1:A:782:SER:O	1.79	0.83
1:A:3823:LYS:O	1:A:3825:GLU:N	2.11	0.83
1:B:682:LEU:HA	1:B:782:SER:O	1.79	0.83
1:B:3987:ASP:H	1:B:3990:VAL:N	1.75	0.83
1:C:4834:GLY:HA2	1:C:4837:LEU:HB3	1.57	0.83
1:D:422:SER:N	1:D:423:GLY:HA2	1.94	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4207:MET:CB	1:D:4208:PRO:HD2	2.08	0.83
1:D:4701:TRP:HH2	1:D:4781:GLY:HA2	1.42	0.83
1:A:17:ASP:N	1:A:69:LEU:O	2.12	0.83
1:A:720:HIS:O	1:A:728:ARG:O	1.96	0.83
1:B:242:ARG:O	1:B:301:VAL:N	2.12	0.83
1:C:4677:LEU:HD23	1:C:4711:PHE:HZ	0.73	0.83
1:D:17:ASP:N	1:D:69:LEU:O	2.12	0.83
1:D:2452:ARG:O	1:D:2455:ALA:HB3	1.78	0.83
1:A:242:ARG:O	1:A:301:VAL:N	2.12	0.83
1:A:3934:TYR:CZ	1:A:3998:HIS:HB3	2.13	0.83
1:A:4195:PHE:HZ	1:A:4991:PHE:HB2	1.36	0.83
1:B:77:ALA:CA	1:C:3935:TRP:HE1	1.88	0.83
1:B:4738:ALA:O	1:B:4742:GLY:HA3	1.78	0.83
1:B:4928:LEU:HA	1:B:4931:ILE:HD11	1.61	0.83
1:B:4942:GLU:CB	1:C:4944:ARG:NH2	2.42	0.83
1:C:27:THR:CB	1:C:32:GLN:HA	2.09	0.83
1:C:271:GLY:O	1:C:272:SER:CB	2.27	0.83
1:C:682:LEU:HA	1:C:782:SER:O	1.79	0.83
1:C:4229:GLU:O	1:C:4233:LEU:HG	1.77	0.83
1:D:4181:ILE:HD11	1:D:4194:TYR:HA	1.60	0.83
1:D:4214:LYS:O	1:D:4218:ILE:HG12	1.79	0.83
1:A:1239:SER:O	1:A:1608:MET:CA	2.27	0.83
1:A:4207:MET:CB	1:A:4208:PRO:HD2	2.08	0.83
1:C:4214:LYS:O	1:C:4218:ILE:HG12	1.79	0.83
1:D:4928:LEU:HA	1:D:4931:ILE:HD11	1.61	0.83
1:A:27:THR:CB	1:A:32:GLN:HA	2.09	0.83
1:A:302:VAL:C	1:A:307:ALA:HB2	2.03	0.83
1:A:3902:TYR:CE1	1:A:3906:GLN:CB	2.62	0.83
1:A:5003:HIS:O	1:A:5008:SER:N	2.10	0.83
1:C:242:ARG:O	1:C:301:VAL:N	2.12	0.83
1:C:2044:ILE:CB	1:C:2053:PRO:HA	2.09	0.83
1:C:4663:CYS:O	1:C:4666:VAL:HG12	1.76	0.83
1:D:1461:ASP:HA	1:D:1462:MET:CB	2.08	0.83
1:D:4738:ALA:O	1:D:4742:GLY:HA3	1.78	0.83
1:A:4141:PHE:HA	1:A:4174:PHE:HD2	1.41	0.83
1:A:1086:GLY:O	1:A:1155:LEU:N	2.08	0.82
1:A:4183:ILE:CG2	1:A:4190:ILE:HG12	2.09	0.82
1:B:685:GLY:HA3	1:B:713:SER:CA	2.07	0.82
1:B:4214:LYS:O	1:B:4218:ILE:HG12	1.79	0.82
1:C:2536:LEU:O	1:C:2541:PHE:N	2.12	0.82
1:D:1708:ARG:HH11	1:D:1837:GLN:HA	1.41	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1708:ARG:HH11	1:A:1837:GLN:HA	1.41	0.82
1:A:2452:ARG:O	1:A:2455:ALA:HB3	1.78	0.82
1:A:3962:PHE:HE2	1:A:4023:MET:HA	0.67	0.82
1:A:3987:ASP:N	1:A:3990:VAL:H	1.74	0.82
1:B:27:THR:CB	1:B:32:GLN:HA	2.09	0.82
1:C:4235:VAL:CB	1:C:5019:TRP:CZ3	2.61	0.82
1:C:4928:LEU:HA	1:C:4931:ILE:HD11	1.61	0.82
1:A:4575:PHE:CE1	1:A:4576:ILE:HD11	1.91	0.82
1:B:2044:ILE:CB	1:B:2053:PRO:HA	2.09	0.82
1:B:4181:ILE:HD11	1:B:4194:TYR:HA	1.60	0.82
1:C:1461:ASP:HA	1:C:1462:MET:CB	2.08	0.82
1:D:1239:SER:O	1:D:1608:MET:CA	2.27	0.82
1:D:3902:TYR:CE1	1:D:3906:GLN:CB	2.62	0.82
1:D:3934:TYR:CZ	1:D:3998:HIS:HB3	2.13	0.82
1:A:4214:LYS:O	1:A:4218:ILE:HG12	1.79	0.82
1:B:1150:GLY:N	1:B:1163:THR:O	2.12	0.82
1:B:1461:ASP:HA	1:B:1462:MET:CB	2.08	0.82
1:B:4183:ILE:CG2	1:B:4190:ILE:HG12	2.09	0.82
1:B:4235:VAL:HG11	1:B:5019:TRP:HH2	1.00	0.82
1:C:1239:SER:O	1:C:1608:MET:CA	2.27	0.82
1:D:242:ARG:O	1:D:301:VAL:N	2.12	0.82
1:D:720:HIS:O	1:D:728:ARG:O	1.96	0.82
1:D:2536:LEU:O	1:D:2541:PHE:N	2.12	0.82
1:D:3962:PHE:HE2	1:D:4023:MET:HA	0.67	0.82
1:A:2044:ILE:CB	1:A:2053:PRO:HA	2.09	0.82
1:A:4738:ALA:O	1:A:4742:GLY:HA3	1.78	0.82
1:B:1272:LEU:N	1:B:1273:ALA:HB3	1.95	0.82
1:B:2536:LEU:O	1:B:2541:PHE:N	2.12	0.82
1:B:4195:PHE:HE2	1:B:4991:PHE:CA	1.88	0.82
1:C:720:HIS:O	1:C:728:ARG:O	1.96	0.82
1:D:4104:THR:O	1:D:4108:ILE:CG2	2.27	0.82
1:D:4150:LEU:HD12	1:D:4150:LEU:O	1.79	0.82
1:A:4132:PHE:O	1:A:4135:PRO:HD2	1.80	0.82
1:B:422:SER:N	1:B:423:GLY:HA2	1.94	0.82
1:B:1163:THR:HA	1:B:1168:VAL:HA	1.59	0.82
1:B:3902:TYR:CE1	1:B:3906:GLN:CB	2.62	0.82
1:B:4656:LEU:O	1:B:4656:LEU:HD22	1.78	0.82
1:C:2451:LEU:C	1:C:2454:ARG:HB3	2.05	0.82
1:C:3934:TYR:CZ	1:C:3998:HIS:HB3	2.13	0.82
1:D:27:THR:CB	1:D:32:GLN:HA	2.09	0.82
1:D:2044:ILE:CB	1:D:2053:PRO:HA	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2451:LEU:C	1:D:2454:ARG:HB3	2.05	0.82
1:A:422:SER:N	1:A:423:GLY:HA2	1.94	0.82
1:A:422:SER:H	1:A:423:GLY:HA2	1.44	0.82
1:A:685:GLY:HA3	1:A:713:SER:CA	2.07	0.82
1:A:4125:PHE:HD1	1:A:4126:GLU:N	1.78	0.82
1:B:1126:GLY:O	1:B:1143:TRP:N	2.12	0.82
1:B:4125:PHE:HD1	1:B:4126:GLU:N	1.78	0.82
1:C:1163:THR:HA	1:C:1168:VAL:HA	1.59	0.82
1:D:1150:GLY:N	1:D:1163:THR:O	2.12	0.82
1:D:3987:ASP:H	1:D:3990:VAL:N	1.75	0.82
1:D:4968:PHE:HB3	1:D:4975:PHE:CA	2.10	0.82
1:A:1126:GLY:O	1:A:1143:TRP:N	2.12	0.82
1:A:2278:ALA:O	1:A:2280:VAL:N	2.13	0.82
1:B:3962:PHE:HE2	1:B:4023:MET:HA	0.67	0.82
1:C:685:GLY:HA3	1:C:713:SER:CA	2.07	0.82
1:C:4150:LEU:O	1:C:4150:LEU:HD12	1.79	0.82
1:C:4575:PHE:CD1	1:C:4576:ILE:CD1	2.58	0.82
1:D:4784:PHE:O	1:D:4789:PHE:HE2	1.63	0.82
1:A:1272:LEU:N	1:A:1273:ALA:HB3	1.95	0.82
1:A:2536:LEU:O	1:A:2541:PHE:N	2.12	0.82
1:A:4944:ARG:NH2	1:D:4942:GLU:CB	2.42	0.82
1:B:378:LEU:CB	1:B:379:HIS:HA	2.10	0.82
1:B:4729:GLY:HA2	1:B:4732:PHE:CB	2.10	0.82
1:C:237:ASP:O	1:C:239:ASP:N	2.13	0.82
1:C:378:LEU:CB	1:C:379:HIS:HA	2.10	0.82
1:C:4738:ALA:O	1:C:4742:GLY:HA3	1.78	0.82
1:C:5003:HIS:O	1:C:5008:SER:N	2.10	0.82
1:D:378:LEU:CB	1:D:379:HIS:HA	2.10	0.82
1:A:271:GLY:O	1:A:272:SER:CB	2.27	0.82
1:A:2451:LEU:C	1:A:2454:ARG:HB3	2.05	0.82
1:A:4181:ILE:HD11	1:A:4194:TYR:HA	1.60	0.82
1:A:4976:GLU:O	1:A:4979:THR:OG1	1.98	0.82
1:B:720:HIS:O	1:B:728:ARG:O	1.96	0.82
1:B:1239:SER:O	1:B:1608:MET:CA	2.27	0.82
1:B:2451:LEU:C	1:B:2454:ARG:HB3	2.05	0.82
1:B:4235:VAL:CB	1:B:5019:TRP:CZ3	2.61	0.82
1:C:77:ALA:HB2	1:D:3935:TRP:NE1	1.95	0.82
1:C:4668:LEU:HD12	1:C:4668:LEU:O	1.80	0.82
1:D:271:GLY:O	1:D:272:SER:CB	2.27	0.82
1:D:1086:GLY:O	1:D:1155:LEU:N	2.08	0.82
1:D:1126:GLY:O	1:D:1143:TRP:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4125:PHE:HD1	1:D:4126:GLU:N	1.78	0.82
1:A:237:ASP:O	1:A:239:ASP:N	2.13	0.81
1:A:378:LEU:CB	1:A:379:HIS:HA	2.10	0.81
1:C:1150:GLY:N	1:C:1163:THR:O	2.12	0.81
1:C:3962:PHE:HE2	1:C:4023:MET:HA	0.67	0.81
1:D:3061:ALA:O	1:D:3064:VAL:N	2.13	0.81
1:D:4183:ILE:CG2	1:D:4190:ILE:HG12	2.09	0.81
1:A:4784:PHE:O	1:A:4789:PHE:HE2	1.63	0.81
1:B:17:ASP:N	1:B:69:LEU:O	2.12	0.81
1:B:237:ASP:O	1:B:239:ASP:N	2.13	0.81
1:B:2278:ALA:O	1:B:2280:VAL:N	2.13	0.81
1:C:1126:GLY:O	1:C:1143:TRP:N	2.12	0.81
1:C:1290:ARG:H	1:C:1551:ALA:HB1	1.43	0.81
1:D:237:ASP:O	1:D:239:ASP:N	2.13	0.81
1:D:4132:PHE:O	1:D:4135:PRO:HD2	1.80	0.81
1:A:1290:ARG:H	1:A:1551:ALA:HB1	1.43	0.81
1:A:4656:LEU:O	1:A:4656:LEU:HD22	1.78	0.81
1:A:4729:GLY:HA2	1:A:4732:PHE:CB	2.10	0.81
1:A:4928:LEU:HA	1:A:4931:ILE:HD11	1.61	0.81
1:B:422:SER:H	1:B:423:GLY:HA2	1.44	0.81
1:B:784:SER:O	1:B:785:ALA:CB	2.25	0.81
1:B:1290:ARG:H	1:B:1551:ALA:HB1	1.43	0.81
1:B:3061:ALA:O	1:B:3064:VAL:N	2.13	0.81
1:B:4180:ARG:H	1:B:4181:ILE:HD13	1.43	0.81
1:C:17:ASP:N	1:C:69:LEU:O	2.12	0.81
1:C:1272:LEU:N	1:C:1273:ALA:HB3	1.95	0.81
1:C:4104:THR:O	1:C:4108:ILE:CG2	2.27	0.81
1:C:4968:PHE:CD2	1:C:4978:HIS:CB	2.62	0.81
1:D:682:LEU:HA	1:D:782:SER:O	1.79	0.81
1:D:1095:VAL:N	1:D:1200:GLY:HA2	1.96	0.81
1:D:4575:PHE:CD1	1:D:4576:ILE:CD1	2.58	0.81
1:D:4968:PHE:CD2	1:D:4978:HIS:CB	2.62	0.81
1:D:4976:GLU:O	1:D:4979:THR:OG1	1.98	0.81
1:A:1095:VAL:N	1:A:1200:GLY:HA2	1.96	0.81
1:A:4668:LEU:O	1:A:4668:LEU:HD12	1.80	0.81
1:A:4930:ALA:CB	1:B:4936:ILE:CD1	2.59	0.81
1:B:788:LYS:HA	1:B:1629:GLN:CA	2.08	0.81
1:B:2884:ASN:O	1:B:2888:ARG:N	2.14	0.81
1:C:4141:PHE:CZ	1:C:4196:GLU:CA	2.64	0.81
1:C:4141:PHE:CE1	1:C:4196:GLU:CB	2.64	0.81
1:A:4968:PHE:CD2	1:A:4978:HIS:CB	2.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:784:SER:O	1:C:785:ALA:CB	2.25	0.81
1:C:1095:VAL:N	1:C:1200:GLY:HA2	1.96	0.81
1:C:4125:PHE:HD1	1:C:4126:GLU:N	1.78	0.81
1:C:4729:GLY:HA2	1:C:4732:PHE:CB	2.10	0.81
1:C:4857:ASN:O	1:C:4858:PHE:CD1	2.34	0.81
1:D:4668:LEU:O	1:D:4668:LEU:HD12	1.80	0.81
1:A:181:HIS:CB	1:A:182:LEU:HA	2.11	0.81
1:A:4150:LEU:HD12	1:A:4150:LEU:O	1.79	0.81
1:A:4803:HIS:O	1:A:4805:ASN:N	2.14	0.81
1:B:1095:VAL:N	1:B:1200:GLY:HA2	1.96	0.81
1:B:4668:LEU:HD12	1:B:4668:LEU:O	1.80	0.81
1:C:1203:ASN:CA	1:C:1204:LEU:CB	2.58	0.81
1:C:4180:ARG:H	1:C:4181:ILE:HD13	1.43	0.81
1:C:4183:ILE:CG2	1:C:4190:ILE:HG12	2.09	0.81
1:D:359:TYR:CB	1:D:376:ALA:HB2	2.11	0.81
1:D:505:GLU:CB	1:D:509:GLU:HA	2.10	0.81
1:D:1203:ASN:CA	1:D:1204:LEU:CB	2.58	0.81
1:A:4982:GLU:CB	1:A:4983:HIS:HB2	2.11	0.81
1:B:1081:TYR:O	1:B:1082:THR:O	1.99	0.81
1:B:4696:ASP:CB	1:B:4697:VAL:HG21	2.06	0.81
1:C:2278:ALA:O	1:C:2280:VAL:N	2.13	0.81
1:C:4195:PHE:CE2	1:C:4991:PHE:CG	2.57	0.81
1:A:359:TYR:CB	1:A:376:ALA:HB2	2.11	0.81
1:A:788:LYS:HA	1:A:1629:GLN:CA	2.08	0.81
1:A:3061:ALA:O	1:A:3064:VAL:N	2.13	0.81
1:B:4982:GLU:CB	1:B:4983:HIS:HB2	2.11	0.81
1:C:3061:ALA:O	1:C:3064:VAL:N	2.13	0.81
1:D:422:SER:H	1:D:423:GLY:HA2	1.44	0.81
1:D:2278:ALA:O	1:D:2280:VAL:N	2.13	0.81
1:D:4982:GLU:CB	1:D:4983:HIS:HB2	2.11	0.81
1:A:1150:GLY:N	1:A:1163:THR:O	2.12	0.81
1:A:1203:ASN:CA	1:A:1204:LEU:CB	2.58	0.81
1:B:77:ALA:HB2	1:C:3935:TRP:NE1	1.95	0.81
1:B:4132:PHE:O	1:B:4135:PRO:HD2	1.80	0.81
1:B:4923:PHE:O	1:B:4927:ILE:HG23	1.81	0.81
1:B:5016:GLU:CB	1:B:5017:ARG:O	2.29	0.81
1:C:4181:ILE:HD11	1:C:4194:TYR:HA	1.60	0.81
1:C:4803:HIS:O	1:C:4805:ASN:N	2.14	0.81
1:C:4976:GLU:O	1:C:4979:THR:OG1	1.98	0.81
1:D:613:ALA:O	1:D:2169:GLN:HA	1.81	0.81
1:D:4642:ALA:HA	1:D:4645:CYS:SG	2.21	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4729:GLY:HA2	1:D:4732:PHE:CB	2.10	0.81
1:A:3935:TRP:NE1	1:D:77:ALA:HB2	1.95	0.81
1:B:681:HIS:CB	1:B:784:SER:CB	2.59	0.81
1:C:505:GLU:CB	1:C:509:GLU:HA	2.10	0.81
1:C:4929:LEU:O	1:C:4932:ILE:HG22	1.81	0.81
1:D:4141:PHE:CZ	1:D:4196:GLU:CA	2.64	0.81
1:D:4195:PHE:CE2	1:D:4991:PHE:HD2	1.99	0.81
1:D:4833:ASN:HD21	1:D:4939:ALA:HB2	1.46	0.81
1:C:1715:LEU:O	1:C:1719:HIS:N	2.14	0.80
1:C:4687:TYR:CA	1:C:4691:GLN:CA	2.52	0.80
1:B:4642:ALA:HA	1:B:4645:CYS:SG	2.21	0.80
1:C:4982:GLU:CB	1:C:4983:HIS:HB2	2.11	0.80
1:D:681:HIS:CB	1:D:784:SER:CB	2.59	0.80
1:A:4104:THR:CB	1:A:4107:GLU:CB	2.59	0.80
1:A:4701:TRP:HH2	1:A:4781:GLY:HA2	1.42	0.80
1:B:1083:VAL:O	1:B:1187:GLY:HA2	1.81	0.80
1:B:1203:ASN:CA	1:B:1204:LEU:CB	2.58	0.80
1:B:4968:PHE:HB3	1:B:4975:PHE:CA	2.10	0.80
1:C:4575:PHE:CE1	1:C:4576:ILE:HD11	1.91	0.80
1:C:4837:LEU:HD23	1:C:4838:VAL:N	1.97	0.80
1:C:5016:GLU:CB	1:C:5017:ARG:O	2.29	0.80
1:D:3942:VAL:CB	1:D:3943:ILE:HA	2.11	0.80
1:D:4978:HIS:CE1	1:D:4983:HIS:CE1	2.70	0.80
1:D:5016:GLU:CB	1:D:5017:ARG:O	2.29	0.80
1:B:181:HIS:CB	1:B:182:LEU:HA	2.11	0.80
1:B:1715:LEU:O	1:B:1719:HIS:N	2.14	0.80
1:B:4141:PHE:CZ	1:B:4196:GLU:CA	2.64	0.80
1:B:4784:PHE:O	1:B:4789:PHE:HE2	1.63	0.80
1:B:4968:PHE:CD2	1:B:4978:HIS:CB	2.62	0.80
1:B:4976:GLU:O	1:B:4979:THR:OG1	1.98	0.80
1:C:1083:VAL:O	1:C:1187:GLY:HA2	1.81	0.80
1:C:2884:ASN:O	1:C:2888:ARG:N	2.14	0.80
1:C:3942:VAL:CB	1:C:3943:ILE:HA	2.11	0.80
1:D:4857:ASN:O	1:D:4858:PHE:CD1	2.34	0.80
1:A:20:VAL:H	1:A:67:PHE:CB	1.94	0.80
1:A:4183:ILE:HG22	1:A:4191:GLU:O	1.81	0.80
1:A:4923:PHE:O	1:A:4927:ILE:HG23	1.81	0.80
1:B:505:GLU:CB	1:B:509:GLU:HA	2.10	0.80
1:B:1436:SER:C	1:B:1516:ILE:CB	2.54	0.80
1:B:4150:LEU:HD12	1:B:4150:LEU:O	1.79	0.80
1:B:4181:ILE:HG22	1:B:4182:GLU:H	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4183:ILE:HG22	1:B:4191:GLU:O	1.81	0.80
1:B:4803:HIS:O	1:B:4805:ASN:N	2.14	0.80
1:B:4857:ASN:O	1:B:4858:PHE:CD1	2.34	0.80
1:C:1287:LEU:CB	1:C:1553:PHE:C	2.55	0.80
1:C:4104:THR:CB	1:C:4107:GLU:CB	2.59	0.80
1:C:4132:PHE:O	1:C:4135:PRO:HD2	1.80	0.80
1:D:1272:LEU:N	1:D:1273:ALA:HB3	1.95	0.80
1:D:4195:PHE:HE2	1:D:4991:PHE:CA	1.88	0.80
1:D:4837:LEU:HD23	1:D:4838:VAL:N	1.97	0.80
1:D:4929:LEU:O	1:D:4932:ILE:HG22	1.81	0.80
1:A:1287:LEU:CB	1:A:1553:PHE:C	2.55	0.80
1:A:2884:ASN:O	1:A:2888:ARG:N	2.14	0.80
1:A:4104:THR:O	1:A:4108:ILE:CG2	2.27	0.80
1:A:4141:PHE:CZ	1:A:4196:GLU:CA	2.64	0.80
1:A:4183:ILE:CG2	1:A:4190:ILE:O	2.30	0.80
1:A:4235:VAL:HG11	1:A:5019:TRP:HH2	1.00	0.80
1:B:271:GLY:O	1:B:272:SER:CB	2.27	0.80
1:C:181:HIS:CB	1:C:182:LEU:HA	2.11	0.80
1:C:4784:PHE:O	1:C:4789:PHE:HE2	1.63	0.80
1:D:1246:GLU:O	1:D:1602:PRO:N	2.15	0.80
1:D:1436:SER:C	1:D:1516:ILE:CB	2.54	0.80
1:D:3935:TRP:HA	1:D:3935:TRP:CE3	2.17	0.80
1:D:4803:HIS:O	1:D:4805:ASN:N	2.14	0.80
1:D:4923:PHE:O	1:D:4927:ILE:HG23	1.81	0.80
1:A:505:GLU:CB	1:A:509:GLU:HA	2.10	0.80
1:A:4642:ALA:HA	1:A:4645:CYS:SG	2.21	0.80
1:D:1081:TYR:O	1:D:1082:THR:O	1.99	0.80
1:D:1083:VAL:O	1:D:1187:GLY:HA2	1.81	0.80
1:A:1081:TYR:O	1:A:1082:THR:O	1.99	0.80
1:A:1161:ILE:CA	1:A:1178:ALA:CB	2.57	0.80
1:A:2172:PRO:O	1:A:2173:GLN:CB	2.29	0.80
1:A:4857:ASN:O	1:A:4858:PHE:CD1	2.34	0.80
1:A:5016:GLU:CB	1:A:5017:ARG:O	2.29	0.80
1:B:4183:ILE:CG2	1:B:4190:ILE:O	2.30	0.80
1:B:4575:PHE:CE1	1:B:4576:ILE:HD11	1.91	0.80
1:C:4968:PHE:HB3	1:C:4975:PHE:CA	2.10	0.80
1:A:681:HIS:CB	1:A:784:SER:CB	2.59	0.80
1:A:3942:VAL:CB	1:A:3943:ILE:HA	2.11	0.80
1:A:4978:HIS:CE1	1:A:4983:HIS:CE1	2.70	0.80
1:B:284:HIS:O	1:B:288:GLY:HA3	1.82	0.80
1:B:4978:HIS:CE1	1:B:4983:HIS:CE1	2.70	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1161:ILE:CA	1:C:1178:ALA:CB	2.57	0.80
1:C:1252:HIS:CB	1:C:1255:TYR:HA	2.12	0.80
1:C:1436:SER:C	1:C:1516:ILE:CB	2.54	0.80
1:C:4701:TRP:HH2	1:C:4781:GLY:HA2	1.42	0.80
1:A:1246:GLU:O	1:A:1602:PRO:N	2.15	0.80
1:B:1246:GLU:O	1:B:1602:PRO:N	2.15	0.80
1:B:4837:LEU:HD23	1:B:4838:VAL:N	1.97	0.80
1:C:788:LYS:HA	1:C:1629:GLN:CA	2.08	0.80
1:C:4183:ILE:CG2	1:C:4190:ILE:O	2.30	0.80
1:C:4934:GLY:HA2	1:D:4937:ILE:CD1	2.04	0.80
1:D:4180:ARG:HA	1:D:4181:ILE:HG12	1.64	0.80
1:D:4575:PHE:CE1	1:D:4576:ILE:HD11	1.91	0.80
1:C:681:HIS:CB	1:C:784:SER:CB	2.59	0.79
1:C:1246:GLU:O	1:C:1602:PRO:N	2.15	0.79
1:C:4978:HIS:CE1	1:C:4983:HIS:CE1	2.70	0.79
1:D:788:LYS:HA	1:D:1629:GLN:CA	2.08	0.79
1:D:2172:PRO:O	1:D:2173:GLN:CB	2.29	0.79
1:D:2884:ASN:O	1:D:2888:ARG:N	2.14	0.79
1:D:4181:ILE:HG22	1:D:4182:GLU:H	1.47	0.79
1:A:1252:HIS:CB	1:A:1255:TYR:HA	2.12	0.79
1:A:1436:SER:C	1:A:1516:ILE:CB	2.54	0.79
1:A:4837:LEU:HD23	1:A:4838:VAL:N	1.97	0.79
1:B:169:LEU:O	1:B:170:ILE:C	2.26	0.79
1:B:4104:THR:CB	1:B:4107:GLU:CB	2.59	0.79
1:B:4687:TYR:CA	1:B:4691:GLN:CA	2.52	0.79
1:C:4180:ARG:HA	1:C:4181:ILE:HG12	1.64	0.79
1:C:4935:LEU:CD2	1:D:4940:PHE:HE2	1.95	0.79
1:D:1252:HIS:CB	1:D:1255:TYR:HA	2.12	0.79
1:D:1287:LEU:CB	1:D:1553:PHE:C	2.55	0.79
1:D:4104:THR:CB	1:D:4107:GLU:CB	2.59	0.79
1:A:77:ALA:HB2	1:B:3935:TRP:NE1	1.95	0.79
1:A:613:ALA:O	1:A:2169:GLN:HA	1.81	0.79
1:A:1096:THR:CB	1:A:1199:VAL:O	2.31	0.79
1:A:3758:MET:O	1:A:3761:GLN:N	2.16	0.79
1:A:4929:LEU:O	1:A:4932:ILE:HG22	1.81	0.79
1:B:613:ALA:O	1:B:2169:GLN:HA	1.81	0.79
1:B:4845:ALA:O	1:B:4848:VAL:HG12	1.82	0.79
1:C:4181:ILE:HG22	1:C:4182:GLU:H	1.47	0.79
1:C:4729:GLY:HA2	1:C:4732:PHE:CA	2.13	0.79
1:D:344:SER:CB	1:D:345:LEU:CA	2.53	0.79
1:D:1096:THR:CB	1:D:1199:VAL:O	2.31	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1290:ARG:H	1:D:1551:ALA:HB1	1.43	0.79
1:D:1715:LEU:O	1:D:1719:HIS:N	2.14	0.79
1:B:359:TYR:CB	1:B:376:ALA:HB2	2.11	0.79
1:B:3942:VAL:CB	1:B:3943:ILE:HA	2.11	0.79
1:B:4181:ILE:HG22	1:B:4182:GLU:N	1.98	0.79
1:C:20:VAL:H	1:C:67:PHE:CB	1.94	0.79
1:C:284:HIS:O	1:C:288:GLY:HA3	1.82	0.79
1:C:359:TYR:CB	1:C:376:ALA:HB2	2.11	0.79
1:C:4930:ALA:CB	1:D:4936:ILE:CD1	2.59	0.79
1:D:284:HIS:O	1:D:288:GLY:HA3	1.82	0.79
1:D:1276:THR:CB	1:D:1563:GLN:HA	2.12	0.79
1:D:1638:ALA:HB1	1:D:1649:ASP:H	1.47	0.79
1:A:4845:ALA:O	1:A:4848:VAL:HG12	1.83	0.79
1:B:220:LEU:CB	1:B:391:THR:CB	2.60	0.79
1:B:2464:ASP:H	1:B:2467:VAL:H	1.31	0.79
1:B:4180:ARG:HA	1:B:4181:ILE:HG12	1.64	0.79
1:C:169:LEU:O	1:C:170:ILE:C	2.26	0.79
1:C:344:SER:CB	1:C:345:LEU:CA	2.53	0.79
1:C:4197:ILE:HD11	1:C:4990:PHE:CE2	2.18	0.79
1:C:4978:HIS:O	1:C:4982:GLU:CA	2.31	0.79
1:D:608:VAL:HA	1:D:613:ALA:CA	2.13	0.79
1:D:4183:ILE:CG2	1:D:4190:ILE:O	2.30	0.79
1:D:4978:HIS:O	1:D:4982:GLU:CA	2.31	0.79
1:A:1083:VAL:O	1:A:1187:GLY:HA2	1.81	0.79
1:A:1638:ALA:HB1	1:A:1649:ASP:H	1.47	0.79
1:A:4141:PHE:CE1	1:A:4196:GLU:CB	2.64	0.79
1:A:4180:ARG:HA	1:A:4181:ILE:HG12	1.64	0.79
1:A:4677:LEU:HD23	1:A:4711:PHE:HZ	0.73	0.79
1:B:67:PHE:O	1:B:110:ARG:N	2.16	0.79
1:B:1287:LEU:CB	1:B:1553:PHE:C	2.55	0.79
1:C:422:SER:H	1:C:423:GLY:HA2	1.44	0.79
1:C:608:VAL:HA	1:C:613:ALA:CA	2.13	0.79
1:D:220:LEU:CB	1:D:391:THR:CB	2.60	0.79
1:D:4089:SER:HA	1:D:4121:GLU:O	1.83	0.79
1:D:4829:SER:CB	1:D:4940:PHE:CE1	2.66	0.79
1:A:2464:ASP:H	1:A:2467:VAL:H	1.31	0.79
1:B:72:SER:HA	1:B:106:ALA:C	2.08	0.79
1:B:2212:VAL:O	1:B:2216:GLY:N	2.15	0.79
1:B:4104:THR:O	1:B:4108:ILE:CG2	2.27	0.79
1:C:685:GLY:HA3	1:C:712:TYR:O	1.83	0.79
1:C:1081:TYR:O	1:C:1082:THR:O	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3758:MET:O	1:C:3761:GLN:N	2.16	0.79
1:C:4642:ALA:HA	1:C:4645:CYS:SG	2.21	0.79
1:D:20:VAL:H	1:D:67:PHE:CB	1.94	0.79
1:D:4243:PHE:HD2	1:D:4671:PHE:CE1	2.01	0.79
1:D:4729:GLY:HA2	1:D:4732:PHE:CA	2.13	0.79
1:A:72:SER:HA	1:A:106:ALA:C	2.08	0.79
1:A:169:LEU:O	1:A:170:ILE:C	2.26	0.79
1:A:220:LEU:CB	1:A:391:THR:CB	2.60	0.79
1:B:4089:SER:HA	1:B:4121:GLU:O	1.83	0.79
1:B:4205:TRP:O	1:B:4210:VAL:CB	2.31	0.79
1:C:4089:SER:HA	1:C:4121:GLU:O	1.83	0.79
1:C:4183:ILE:HG22	1:C:4191:GLU:O	1.81	0.79
1:D:4197:ILE:HD11	1:D:4990:PHE:CE2	2.18	0.79
1:A:1276:THR:CB	1:A:1563:GLN:HA	2.12	0.79
1:A:4181:ILE:HG22	1:A:4182:GLU:H	1.46	0.79
1:B:20:VAL:H	1:B:67:PHE:CB	1.94	0.79
1:B:4978:HIS:O	1:B:4982:GLU:CA	2.31	0.79
1:C:67:PHE:O	1:C:110:ARG:N	2.16	0.79
1:D:4795:TYR:CE1	1:D:4816:ILE:CB	2.66	0.79
1:A:273:HIS:CB	1:A:337:PRO:CB	2.61	0.79
1:A:4089:SER:HA	1:A:4121:GLU:O	1.83	0.79
1:A:4795:TYR:CE1	1:A:4816:ILE:CB	2.66	0.79
1:B:1252:HIS:CB	1:B:1255:TYR:HA	2.12	0.79
1:B:3935:TRP:HA	1:B:3935:TRP:CE3	2.17	0.79
1:C:220:LEU:CB	1:C:391:THR:CB	2.60	0.79
1:C:422:SER:N	1:C:423:GLY:HA2	1.94	0.79
1:C:613:ALA:O	1:C:2169:GLN:HA	1.81	0.79
1:D:67:PHE:O	1:D:110:ARG:N	2.16	0.79
1:B:608:VAL:HA	1:B:613:ALA:CA	2.13	0.78
1:B:1638:ALA:HB1	1:B:1649:ASP:H	1.47	0.78
1:B:4729:GLY:HA2	1:B:4732:PHE:CA	2.13	0.78
1:C:72:SER:HA	1:C:106:ALA:C	2.08	0.78
1:C:4243:PHE:HD2	1:C:4671:PHE:CE1	2.01	0.78
1:C:4718:LYS:H	1:C:4720:VAL:HG12	1.48	0.78
1:D:72:SER:HA	1:D:106:ALA:C	2.08	0.78
1:A:608:VAL:HA	1:A:613:ALA:CA	2.13	0.78
1:A:645:ARG:CB	1:A:779:PRO:O	2.32	0.78
1:A:4729:GLY:HA2	1:A:4732:PHE:CA	2.13	0.78
1:A:4768:LEU:HD13	1:A:4769:MET:N	1.99	0.78
1:A:4944:ARG:HH22	1:D:4942:GLU:CB	1.96	0.78
1:B:685:GLY:HA3	1:B:712:TYR:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1288:PHE:CA	1:C:1553:PHE:CB	2.61	0.78
1:C:3935:TRP:CE3	1:C:3935:TRP:HA	2.17	0.78
1:C:4923:PHE:O	1:C:4927:ILE:HG23	1.81	0.78
1:D:181:HIS:CB	1:D:182:LEU:HA	2.11	0.78
1:D:4205:TRP:O	1:D:4210:VAL:CB	2.31	0.78
1:A:4968:PHE:HB3	1:A:4975:PHE:CA	2.10	0.78
1:B:1276:THR:CB	1:B:1563:GLN:HA	2.12	0.78
1:B:3758:MET:O	1:B:3761:GLN:N	2.16	0.78
1:C:1276:THR:CB	1:C:1563:GLN:HA	2.12	0.78
1:C:4795:TYR:CE1	1:C:4816:ILE:CB	2.66	0.78
1:D:645:ARG:CB	1:D:779:PRO:O	2.32	0.78
1:D:685:GLY:HA3	1:D:712:TYR:O	1.83	0.78
1:D:3934:TYR:HE1	1:D:3935:TRP:HZ3	1.32	0.78
1:D:4181:ILE:HG22	1:D:4182:GLU:N	1.98	0.78
1:D:4768:LEU:HD13	1:D:4769:MET:N	1.99	0.78
1:A:284:HIS:O	1:A:288:GLY:HA3	1.82	0.78
1:A:1288:PHE:CA	1:A:1553:PHE:CB	2.61	0.78
1:B:4195:PHE:CE2	1:B:4991:PHE:HD2	1.99	0.78
1:B:4197:ILE:HD11	1:B:4990:PHE:CE2	2.18	0.78
1:C:1096:THR:CB	1:C:1199:VAL:O	2.31	0.78
1:C:2464:ASP:H	1:C:2467:VAL:H	1.31	0.78
1:D:169:LEU:O	1:D:170:ILE:C	2.26	0.78
1:D:2464:ASP:H	1:D:2467:VAL:H	1.31	0.78
1:B:645:ARG:CB	1:B:779:PRO:O	2.32	0.78
1:B:918:ARG:CA	1:B:921:ASN:H	1.89	0.78
1:B:3962:PHE:CE2	1:B:4023:MET:CA	2.30	0.78
1:C:790:ARG:HA	1:C:1627:ALA:HA	0.78	0.78
1:C:2212:VAL:O	1:C:2216:GLY:N	2.16	0.78
1:D:4235:VAL:HA	1:D:4238:CYS:SG	2.23	0.78
1:D:4829:SER:CB	1:D:4940:PHE:HE1	1.96	0.78
1:A:685:GLY:HA3	1:A:712:TYR:O	1.83	0.78
1:A:2273:LEU:O	1:A:2276:ALA:HB3	1.84	0.78
1:A:4141:PHE:HZ	1:A:4196:GLU:CA	1.96	0.78
1:A:4978:HIS:O	1:A:4982:GLU:CA	2.31	0.78
1:B:273:HIS:CB	1:B:337:PRO:CB	2.61	0.78
1:B:3986:TRP:C	1:B:3988:ALA:HB3	2.09	0.78
1:B:4795:TYR:CE1	1:B:4816:ILE:CB	2.66	0.78
1:D:3758:MET:O	1:D:3761:GLN:N	2.16	0.78
1:D:3962:PHE:CE2	1:D:4023:MET:CA	2.30	0.78
1:D:4141:PHE:HZ	1:D:4196:GLU:CA	1.96	0.78
1:D:4776:GLN:HA	1:D:4776:GLN:NE2	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4845:ALA:O	1:D:4848:VAL:HG12	1.83	0.78
1:A:4181:ILE:HG22	1:A:4182:GLU:N	1.98	0.78
1:B:790:ARG:HA	1:B:1627:ALA:HA	0.78	0.78
1:B:4929:LEU:O	1:B:4932:ILE:HG22	1.81	0.78
1:C:3934:TYR:HE1	1:C:3935:TRP:HZ3	1.32	0.78
1:C:4181:ILE:HG22	1:C:4182:GLU:N	1.98	0.78
1:C:4195:PHE:CE2	1:C:4991:PHE:HD2	1.99	0.78
1:C:4795:TYR:CD1	1:C:4816:ILE:CB	2.67	0.78
1:C:4845:ALA:O	1:C:4848:VAL:HG12	1.83	0.78
1:D:1288:PHE:CA	1:D:1553:PHE:CB	2.61	0.78
1:D:4141:PHE:CE1	1:D:4196:GLU:CB	2.64	0.78
1:D:4795:TYR:CD1	1:D:4816:ILE:CB	2.67	0.78
1:A:1715:LEU:O	1:A:1719:HIS:N	2.14	0.78
1:B:219:VAL:CB	1:B:261:ARG:HA	2.14	0.78
1:B:1096:THR:CB	1:B:1199:VAL:O	2.31	0.78
1:B:4243:PHE:CD2	1:B:4671:PHE:CZ	2.51	0.78
1:C:509:GLU:O	1:C:511:ALA:N	2.17	0.78
1:C:839:LEU:O	1:C:1199:VAL:HA	1.84	0.78
1:C:3986:TRP:CA	1:C:3987:ASP:CB	2.62	0.78
1:C:4205:TRP:O	1:C:4210:VAL:CB	2.31	0.78
1:D:790:ARG:HA	1:D:1627:ALA:HA	0.78	0.78
1:A:219:VAL:CB	1:A:261:ARG:HA	2.14	0.78
1:A:509:GLU:O	1:A:511:ALA:N	2.17	0.78
1:B:1288:PHE:CA	1:B:1553:PHE:CB	2.61	0.78
1:B:4932:ILE:HG23	1:B:4933:GLN:OE1	1.84	0.78
1:C:273:HIS:CB	1:C:337:PRO:CB	2.61	0.78
1:D:509:GLU:O	1:D:511:ALA:N	2.17	0.78
1:A:4687:TYR:CA	1:A:4691:GLN:CA	2.52	0.78
1:B:1112:ASP:CB	1:B:1607:ARG:HA	2.14	0.78
1:B:4795:TYR:CD1	1:B:4816:ILE:CB	2.67	0.78
1:D:263:GLU:CB	1:D:281:ARG:O	2.32	0.78
1:D:4718:LYS:H	1:D:4720:VAL:HG12	1.48	0.78
1:A:263:GLU:CB	1:A:281:ARG:O	2.32	0.77
1:A:1112:ASP:CB	1:A:1607:ARG:HA	2.14	0.77
1:A:4235:VAL:HA	1:A:4238:CYS:SG	2.23	0.77
1:A:4995:LEU:O	1:A:4995:LEU:HD13	1.84	0.77
1:B:4677:LEU:HD23	1:B:4711:PHE:HZ	0.73	0.77
1:B:4768:LEU:HD13	1:B:4769:MET:N	1.99	0.77
1:C:4235:VAL:HA	1:C:4238:CYS:SG	2.23	0.77
1:C:4768:LEU:HD13	1:C:4769:MET:N	1.99	0.77
1:D:5014:TYR:O	1:D:5017:ARG:HA	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:612:VAL:CB	1:A:2169:GLN:H	1.97	0.77
1:A:990:GLU:CB	1:A:1024:TYR:CB	2.63	0.77
1:A:1273:ALA:HB1	1:A:1274:HIS:CA	2.13	0.77
1:A:3986:TRP:CA	1:A:3987:ASP:CB	2.62	0.77
1:B:263:GLU:CB	1:B:281:ARG:O	2.32	0.77
1:B:1708:ARG:HH11	1:B:1837:GLN:HA	1.41	0.77
1:B:3934:TYR:HE1	1:B:3935:TRP:HZ3	1.32	0.77
1:C:219:VAL:CB	1:C:261:ARG:HA	2.14	0.77
1:C:721:LEU:CB	1:C:728:ARG:CB	2.63	0.77
1:C:1112:ASP:CB	1:C:1607:ARG:HA	2.14	0.77
1:C:1638:ALA:HB1	1:C:1649:ASP:H	1.47	0.77
1:D:608:VAL:HA	1:D:613:ALA:CB	2.14	0.77
1:D:1095:VAL:H	1:D:1200:GLY:CA	1.98	0.77
1:D:1161:ILE:CA	1:D:1178:ALA:CB	2.57	0.77
1:D:1272:LEU:CA	1:D:1273:ALA:HB3	2.14	0.77
1:D:4696:ASP:C	1:D:4697:VAL:HG22	2.10	0.77
1:A:501:ALA:HB1	1:A:505:GLU:N	1.99	0.77
1:A:608:VAL:HA	1:A:613:ALA:HB2	1.67	0.77
1:A:1095:VAL:H	1:A:1200:GLY:CA	1.98	0.77
1:A:2212:VAL:O	1:A:2216:GLY:N	2.16	0.77
1:A:4205:TRP:O	1:A:4210:VAL:CB	2.31	0.77
1:B:608:VAL:HA	1:B:613:ALA:CB	2.14	0.77
1:B:1272:LEU:CA	1:B:1273:ALA:HB3	2.14	0.77
1:B:4696:ASP:C	1:B:4697:VAL:HG22	2.10	0.77
1:C:645:ARG:CB	1:C:779:PRO:O	2.32	0.77
1:C:4776:GLN:HA	1:C:4776:GLN:NE2	1.99	0.77
1:D:839:LEU:O	1:D:1199:VAL:HA	1.84	0.77
1:D:4795:TYR:OH	1:D:4813:LEU:CA	2.33	0.77
1:A:839:LEU:O	1:A:1199:VAL:HA	1.84	0.77
1:A:1272:LEU:CA	1:A:1273:ALA:HB3	2.14	0.77
1:A:3934:TYR:HE1	1:A:3935:TRP:HZ3	1.32	0.77
1:A:4207:MET:CB	1:A:4208:PRO:CD	2.62	0.77
1:B:839:LEU:O	1:B:1199:VAL:HA	1.84	0.77
1:C:1272:LEU:CA	1:C:1273:ALA:HB3	2.14	0.77
1:C:1436:SER:HA	1:C:1516:ILE:CB	2.14	0.77
1:C:2172:PRO:O	1:C:2173:GLN:CB	2.29	0.77
1:C:3986:TRP:C	1:C:3988:ALA:HB3	2.09	0.77
1:D:4932:ILE:HG23	1:D:4933:GLN:OE1	1.84	0.77
1:A:790:ARG:HA	1:A:1627:ALA:HA	0.78	0.77
1:A:3114:LYS:CA	1:A:3174:SER:CB	2.63	0.77
1:A:3935:TRP:HA	1:A:3935:TRP:CE3	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4844:LEU:O	1:A:4847:VAL:HG12	1.85	0.77
1:B:509:GLU:O	1:B:511:ALA:N	2.17	0.77
1:B:721:LEU:CB	1:B:728:ARG:CB	2.63	0.77
1:B:1717:SER:O	1:B:1720:LEU:CB	2.33	0.77
1:B:2273:LEU:O	1:B:2276:ALA:HB3	1.84	0.77
1:C:501:ALA:HB1	1:C:505:GLU:N	1.99	0.77
1:C:4696:ASP:C	1:C:4697:VAL:HG22	2.10	0.77
1:D:273:HIS:CB	1:D:337:PRO:CB	2.61	0.77
1:D:990:GLU:CB	1:D:1024:TYR:CB	2.63	0.77
1:D:1717:SER:O	1:D:1720:LEU:CB	2.33	0.77
1:A:608:VAL:HA	1:A:613:ALA:CB	2.14	0.77
1:A:3986:TRP:C	1:A:3988:ALA:HB3	2.09	0.77
1:B:4235:VAL:HA	1:B:4238:CYS:SG	2.23	0.77
1:B:4243:PHE:HD2	1:B:4671:PHE:CE1	2.01	0.77
1:C:1717:SER:O	1:C:1720:LEU:CB	2.33	0.77
1:C:4207:MET:CB	1:C:4208:PRO:CD	2.62	0.77
1:D:1112:ASP:CB	1:D:1607:ARG:HA	2.14	0.77
1:A:4651:THR:CB	1:A:4799:SER:HG	1.97	0.77
1:A:4833:ASN:HD21	1:A:4939:ALA:HB2	1.50	0.77
1:A:4932:ILE:HG23	1:A:4933:GLN:OE1	1.84	0.77
1:A:4942:GLU:CB	1:B:4944:ARG:NH2	2.47	0.77
1:B:608:VAL:HA	1:B:613:ALA:HB2	1.67	0.77
1:B:1436:SER:HA	1:B:1516:ILE:CB	2.14	0.77
1:B:4158:PRO:O	1:B:4161:ARG:N	2.18	0.77
1:B:4575:PHE:CD1	1:B:4576:ILE:CD1	2.58	0.77
1:C:4141:PHE:HZ	1:C:4196:GLU:CA	1.96	0.77
1:C:4158:PRO:O	1:C:4161:ARG:N	2.18	0.77
1:D:220:LEU:CB	1:D:392:ARG:H	1.98	0.77
1:D:4696:ASP:CB	1:D:4697:VAL:CB	2.63	0.77
1:A:1687:SER:HA	1:A:1688:HIS:CB	2.15	0.77
1:A:3962:PHE:CE2	1:A:4023:MET:CA	2.30	0.77
1:A:4696:ASP:CB	1:A:4697:VAL:CB	2.63	0.77
1:A:4795:TYR:CD1	1:A:4816:ILE:CB	2.67	0.77
1:B:501:ALA:HB1	1:B:505:GLU:N	1.99	0.77
1:B:612:VAL:CB	1:B:2169:GLN:H	1.97	0.77
1:B:4687:TYR:CA	1:B:4691:GLN:CB	2.53	0.77
1:B:4995:LEU:HD12	1:B:5011:TRP:CE3	2.19	0.77
1:C:608:VAL:HA	1:C:613:ALA:CB	2.14	0.77
1:C:4932:ILE:HG23	1:C:4933:GLN:OE1	1.84	0.77
1:A:1717:SER:O	1:A:1720:LEU:CB	2.33	0.77
1:A:4243:PHE:CD2	1:A:4671:PHE:CZ	2.51	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4911:LEU:O	1:A:4914:VAL:HG12	1.85	0.77
1:B:113:HIS:N	1:B:114:SER:HA	2.00	0.77
1:B:1687:SER:HA	1:B:1688:HIS:CB	2.15	0.77
1:B:4141:PHE:CE1	1:B:4196:GLU:CB	2.64	0.77
1:B:4696:ASP:CB	1:B:4697:VAL:CB	2.63	0.77
1:B:4718:LYS:H	1:B:4720:VAL:HG12	1.48	0.77
1:B:4844:LEU:O	1:B:4847:VAL:HG12	1.85	0.77
1:C:242:ARG:O	1:C:300:VAL:CA	2.33	0.77
1:C:263:GLU:CB	1:C:281:ARG:O	2.32	0.77
1:D:3986:TRP:CA	1:D:3987:ASP:CB	2.62	0.77
1:D:4183:ILE:HG22	1:D:4191:GLU:O	1.82	0.77
1:A:3986:TRP:HB3	1:A:3987:ASP:HA	1.66	0.77
1:A:4158:PRO:O	1:A:4161:ARG:N	2.18	0.77
1:A:4197:ILE:CD1	1:A:4990:PHE:CD2	2.68	0.77
1:A:4795:TYR:OH	1:A:4813:LEU:CA	2.33	0.77
1:B:3986:TRP:HB3	1:B:3987:ASP:HA	1.66	0.77
1:C:346:CYS:O	1:C:387:ALA:CA	2.27	0.77
1:C:1687:SER:HA	1:C:1688:HIS:CB	2.15	0.77
1:D:608:VAL:HA	1:D:613:ALA:HB2	1.67	0.77
1:D:4158:PRO:O	1:D:4161:ARG:N	2.18	0.77
1:B:220:LEU:CB	1:B:392:ARG:H	1.98	0.76
1:B:242:ARG:O	1:B:300:VAL:CA	2.33	0.76
1:B:3721:LEU:O	1:B:3725:TYR:HD1	1.68	0.76
1:B:4795:TYR:OH	1:B:4813:LEU:CA	2.33	0.76
1:C:4696:ASP:CB	1:C:4697:VAL:CB	2.63	0.76
1:C:4911:LEU:O	1:C:4915:VAL:HG23	1.85	0.76
1:C:4958:CYS:H	1:C:4964:GLY:HA3	1.50	0.76
1:D:219:VAL:CB	1:D:261:ARG:HA	2.14	0.76
1:D:2273:LEU:O	1:D:2276:ALA:HB3	1.84	0.76
1:D:3986:TRP:HB3	1:D:3987:ASP:HA	1.66	0.76
1:D:3986:TRP:C	1:D:3988:ALA:HB3	2.09	0.76
1:D:4784:PHE:C	1:D:4789:PHE:CE2	2.59	0.76
1:D:4958:CYS:H	1:D:4964:GLY:HA3	1.51	0.76
1:A:220:LEU:CB	1:A:392:ARG:H	1.98	0.76
1:A:1933:GLU:O	1:A:1936:LYS:N	2.18	0.76
1:A:4696:ASP:C	1:A:4697:VAL:HG22	2.10	0.76
1:B:3107:VAL:O	1:B:3111:ARG:N	2.18	0.76
1:B:3986:TRP:CA	1:B:3987:ASP:CB	2.62	0.76
1:B:5014:TYR:O	1:B:5017:ARG:HA	1.85	0.76
1:C:4768:LEU:CD1	1:C:4770:SER:H	1.98	0.76
1:D:1687:SER:HA	1:D:1688:HIS:CB	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4844:LEU:O	1:D:4847:VAL:HG12	1.85	0.76
1:A:721:LEU:CB	1:A:728:ARG:CB	2.63	0.76
1:A:4575:PHE:CD1	1:A:4576:ILE:CD1	2.58	0.76
1:B:4776:GLN:HA	1:B:4776:GLN:NE2	1.99	0.76
1:C:1638:ALA:CB	1:C:1649:ASP:H	1.99	0.76
1:C:4795:TYR:OH	1:C:4813:LEU:CA	2.33	0.76
1:A:1436:SER:HA	1:A:1516:ILE:CB	2.14	0.76
1:B:3114:LYS:CA	1:B:3174:SER:CB	2.63	0.76
1:B:4207:MET:CB	1:B:4208:PRO:CD	2.62	0.76
1:C:608:VAL:HA	1:C:613:ALA:HB2	1.67	0.76
1:C:721:LEU:CA	1:C:728:ARG:H	1.98	0.76
1:C:3721:LEU:O	1:C:3725:TYR:HD1	1.68	0.76
1:C:4985:LEU:HD12	1:C:4985:LEU:N	2.01	0.76
1:D:4768:LEU:CD1	1:D:4770:SER:H	1.98	0.76
1:A:1086:GLY:N	1:A:1155:LEU:CB	2.49	0.76
1:A:1254:HIS:CB	1:A:1281:ASN:CB	2.64	0.76
1:A:3107:VAL:O	1:A:3111:ARG:N	2.18	0.76
1:A:5014:TYR:O	1:A:5017:ARG:HA	1.85	0.76
1:B:1638:ALA:CB	1:B:1649:ASP:H	1.99	0.76
1:C:1086:GLY:N	1:C:1155:LEU:CB	2.49	0.76
1:C:2273:LEU:O	1:C:2276:ALA:HB3	1.84	0.76
1:C:3107:VAL:O	1:C:3111:ARG:N	2.18	0.76
1:D:501:ALA:HB1	1:D:505:GLU:N	1.99	0.76
1:D:1436:SER:HA	1:D:1516:ILE:CB	2.14	0.76
1:D:4911:LEU:O	1:D:4915:VAL:HG23	1.85	0.76
1:D:4995:LEU:HD12	1:D:5011:TRP:CE3	2.19	0.76
1:A:608:VAL:HA	1:A:613:ALA:HA	1.68	0.76
1:A:1588:ALA:HB1	1:A:1589:PRO:CA	2.15	0.76
1:A:4182:GLU:OE2	1:A:4988:TYR:CB	2.33	0.76
1:C:990:GLU:CB	1:C:1024:TYR:CB	2.63	0.76
1:C:4995:LEU:HD12	1:C:5011:TRP:CE3	2.19	0.76
1:D:5031:GLN:HG3	1:D:5032:TYR:CE1	2.20	0.76
1:A:5031:GLN:HG3	1:A:5032:TYR:CE1	2.20	0.76
1:B:990:GLU:CB	1:B:1024:TYR:CB	2.63	0.76
1:B:1273:ALA:HB1	1:B:1274:HIS:CA	2.13	0.76
1:B:4911:LEU:O	1:B:4914:VAL:HG12	1.85	0.76
1:C:1588:ALA:HB1	1:C:1589:PRO:CA	2.15	0.76
1:C:1933:GLU:O	1:C:1936:LYS:N	2.18	0.76
1:C:4844:LEU:O	1:C:4847:VAL:HG12	1.85	0.76
1:D:242:ARG:O	1:D:300:VAL:CA	2.33	0.76
1:D:4207:MET:CB	1:D:4208:PRO:CD	2.62	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1124:PHE:CB	1:A:1131:ARG:N	2.48	0.76
1:A:1638:ALA:CB	1:A:1649:ASP:H	1.99	0.76
1:B:1933:GLU:O	1:B:1936:LYS:N	2.18	0.76
1:B:4768:LEU:CD1	1:B:4770:SER:H	1.99	0.76
1:C:608:VAL:HA	1:C:613:ALA:HA	1.68	0.76
1:C:4644:TRP:CE3	1:C:4645:CYS:HA	2.21	0.76
1:C:5031:GLN:HG3	1:C:5032:TYR:CE1	2.20	0.76
1:D:1933:GLU:O	1:D:1936:LYS:N	2.18	0.76
1:D:2212:VAL:O	1:D:2216:GLY:N	2.16	0.76
1:D:3984:ARG:HD2	1:D:3984:ARG:C	2.11	0.76
1:D:4958:CYS:H	1:D:4964:GLY:CA	1.99	0.76
1:A:4644:TRP:CE3	1:A:4645:CYS:HA	2.21	0.76
1:B:2172:PRO:O	1:B:2173:GLN:CB	2.29	0.76
1:B:4685:GLY:H	1:B:4689:THR:CB	1.99	0.76
1:C:4968:PHE:CD2	1:C:4978:HIS:HB2	2.21	0.76
1:D:721:LEU:CB	1:D:728:ARG:CB	2.63	0.76
1:A:346:CYS:O	1:A:387:ALA:CA	2.27	0.76
1:A:3984:ARG:HD2	1:A:3984:ARG:C	2.11	0.76
1:A:4985:LEU:HD12	1:A:4985:LEU:N	2.01	0.76
1:B:4141:PHE:HZ	1:B:4196:GLU:CA	1.96	0.76
1:C:220:LEU:CB	1:C:392:ARG:H	1.98	0.76
1:C:3984:ARG:HD2	1:C:3984:ARG:C	2.11	0.76
1:C:4181:ILE:CG1	1:C:4194:TYR:HA	2.17	0.76
1:C:4958:CYS:H	1:C:4964:GLY:CA	1.99	0.76
1:D:1588:ALA:HB1	1:D:1589:PRO:CA	2.15	0.76
1:D:1718:ILE:C	1:D:1720:LEU:CB	2.59	0.76
1:D:4911:LEU:O	1:D:4914:VAL:HG12	1.85	0.76
1:A:67:PHE:O	1:A:110:ARG:N	2.16	0.75
1:A:4718:LYS:H	1:A:4720:VAL:HG12	1.48	0.75
1:A:4911:LEU:O	1:A:4915:VAL:HG23	1.85	0.75
1:A:4968:PHE:CD2	1:A:4978:HIS:HB2	2.21	0.75
1:B:2505:PHE:O	1:B:2509:VAL:N	2.18	0.75
1:B:4931:ILE:O	1:B:4935:LEU:HG	1.86	0.75
1:C:113:HIS:N	1:C:114:SER:HA	2.00	0.75
1:C:4243:PHE:CD2	1:C:4671:PHE:CZ	2.51	0.75
1:D:1124:PHE:CB	1:D:1131:ARG:N	2.48	0.75
1:D:4181:ILE:CG1	1:D:4194:TYR:HA	2.17	0.75
1:A:242:ARG:O	1:A:300:VAL:CA	2.33	0.75
1:A:1718:ILE:C	1:A:1720:LEU:CB	2.59	0.75
1:A:4156:HIS:CB	1:A:4157:ASP:HA	2.16	0.75
1:A:4783:ILE:O	1:A:4789:PHE:CE2	2.39	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5014:TYR:O	1:C:5017:ARG:HA	1.85	0.75
1:D:608:VAL:HA	1:D:613:ALA:HA	1.68	0.75
1:D:1086:GLY:N	1:D:1155:LEU:CB	2.49	0.75
1:D:3107:VAL:O	1:D:3111:ARG:N	2.18	0.75
1:A:4243:PHE:HD2	1:A:4671:PHE:CE1	2.01	0.75
1:A:4958:CYS:H	1:A:4964:GLY:CA	1.99	0.75
1:B:1086:GLY:N	1:B:1155:LEU:CB	2.49	0.75
1:B:4156:HIS:CB	1:B:4157:ASP:HA	2.16	0.75
1:B:4958:CYS:H	1:B:4964:GLY:CA	1.99	0.75
1:B:4985:LEU:N	1:B:4985:LEU:HD12	2.01	0.75
1:D:1273:ALA:HB1	1:D:1274:HIS:CA	2.13	0.75
1:D:4644:TRP:CE3	1:D:4645:CYS:HA	2.21	0.75
1:B:1718:ILE:C	1:B:1720:LEU:CB	2.60	0.75
1:B:3896:ASN:O	1:B:3900:GLN:N	2.15	0.75
1:B:4144:ALA:O	1:B:4148:THR:OG1	2.05	0.75
1:C:1096:THR:CB	1:C:1198:GLN:HA	2.16	0.75
1:C:2342:ASN:HA	1:C:2344:GLU:O	1.87	0.75
1:C:4144:ALA:O	1:C:4148:THR:OG1	2.05	0.75
1:C:4934:GLY:HA3	1:D:4937:ILE:CD1	2.14	0.75
1:D:840:VAL:CB	1:D:1199:VAL:CA	2.65	0.75
1:D:1254:HIS:CB	1:D:1281:ASN:CB	2.64	0.75
1:D:1638:ALA:CB	1:D:1649:ASP:H	1.99	0.75
1:D:2624:ARG:CB	1:D:2910:THR:CB	2.65	0.75
1:D:4156:HIS:CB	1:D:4157:ASP:HA	2.16	0.75
1:D:4985:LEU:HD12	1:D:4985:LEU:N	2.01	0.75
1:A:27:THR:HA	1:A:32:GLN:CA	2.15	0.75
1:A:4768:LEU:CD1	1:A:4770:SER:H	1.98	0.75
1:B:4182:GLU:CD	1:B:4988:TYR:HB2	2.11	0.75
1:B:4783:ILE:O	1:B:4789:PHE:CE2	2.39	0.75
1:B:4911:LEU:O	1:B:4915:VAL:HG23	1.85	0.75
1:C:3986:TRP:HB3	1:C:3987:ASP:HA	1.66	0.75
1:C:4783:ILE:O	1:C:4789:PHE:CE2	2.39	0.75
1:C:4911:LEU:O	1:C:4914:VAL:HG12	1.85	0.75
1:D:612:VAL:CB	1:D:2169:GLN:H	1.97	0.75
1:D:4144:ALA:O	1:D:4148:THR:OG1	2.05	0.75
1:A:4088:ILE:O	1:A:4092:ASP:CB	2.35	0.75
1:A:4144:ALA:O	1:A:4148:THR:OG1	2.05	0.75
1:A:4685:GLY:H	1:A:4689:THR:CB	1.99	0.75
1:B:3984:ARG:HD2	1:B:3984:ARG:C	2.11	0.75
1:B:5031:GLN:HG3	1:B:5032:TYR:CE1	2.20	0.75
1:C:1244:GLN:O	1:C:1604:SER:O	2.05	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1254:HIS:CB	1:C:1281:ASN:CB	2.64	0.75
1:C:4784:PHE:C	1:C:4789:PHE:CE2	2.59	0.75
1:D:113:HIS:N	1:D:114:SER:HA	2.00	0.75
1:D:4783:ILE:O	1:D:4789:PHE:CE2	2.39	0.75
1:A:3721:LEU:O	1:A:3725:TYR:HD1	1.68	0.75
1:A:4181:ILE:CG1	1:A:4194:TYR:HA	2.16	0.75
1:A:4958:CYS:H	1:A:4964:GLY:HA3	1.50	0.75
1:B:608:VAL:HA	1:B:613:ALA:HA	1.68	0.75
1:B:1254:HIS:CB	1:B:1281:ASN:CB	2.64	0.75
1:B:4644:TRP:CE3	1:B:4645:CYS:HA	2.21	0.75
1:C:612:VAL:CB	1:C:2169:GLN:H	1.97	0.75
1:C:1718:ILE:C	1:C:1720:LEU:CB	2.59	0.75
1:D:4931:ILE:O	1:D:4935:LEU:HG	1.86	0.75
1:A:4784:PHE:C	1:A:4789:PHE:CE2	2.59	0.75
1:B:1244:GLN:O	1:B:1604:SER:O	2.05	0.75
1:C:4088:ILE:O	1:C:4092:ASP:CB	2.35	0.75
1:C:4156:HIS:CB	1:C:4157:ASP:HA	2.16	0.75
1:D:169:LEU:O	1:D:170:ILE:O	2.05	0.75
1:D:1708:ARG:HG2	1:D:1712:TYR:CE2	2.22	0.75
1:D:3721:LEU:O	1:D:3725:TYR:HD1	1.68	0.75
1:D:4685:GLY:H	1:D:4689:THR:CB	1.99	0.75
1:A:2624:ARG:CB	1:A:2910:THR:CB	2.65	0.75
1:B:1161:ILE:CA	1:B:1178:ALA:CB	2.57	0.75
1:B:4696:ASP:CA	1:B:4697:VAL:CB	2.65	0.75
1:C:4182:GLU:CD	1:C:4988:TYR:HB2	2.11	0.75
1:D:27:THR:HA	1:D:32:GLN:CA	2.15	0.75
1:D:544:LEU:HA	1:D:547:VAL:CB	2.17	0.75
1:A:1244:GLN:O	1:A:1604:SER:O	2.05	0.74
1:B:169:LEU:O	1:B:170:ILE:O	2.05	0.74
1:B:1588:ALA:HB1	1:B:1589:PRO:CA	2.15	0.74
1:B:4088:ILE:O	1:B:4092:ASP:CB	2.35	0.74
1:B:4705:VAL:CB	1:B:4778:TRP:CD1	2.70	0.74
1:B:4829:SER:CB	1:B:4940:PHE:CE1	2.69	0.74
1:C:1688:HIS:CA	1:C:1689:VAL:CB	2.65	0.74
1:C:2586:VAL:HA	1:C:2587:TYR:CB	2.16	0.74
1:D:2505:PHE:O	1:D:2509:VAL:N	2.18	0.74
1:D:4705:VAL:CB	1:D:4778:TRP:CD1	2.70	0.74
1:A:918:ARG:CA	1:A:921:ASN:H	1.89	0.74
1:B:721:LEU:CA	1:B:728:ARG:H	1.98	0.74
1:B:1085:SER:C	1:B:1155:LEU:CB	2.60	0.74
1:C:544:LEU:HA	1:C:547:VAL:CB	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2624:ARG:CB	1:C:2910:THR:CB	2.65	0.74
1:A:169:LEU:O	1:A:170:ILE:O	2.05	0.74
1:B:1708:ARG:HG2	1:B:1712:TYR:CE2	2.22	0.74
1:B:4181:ILE:CG1	1:B:4194:TYR:HA	2.16	0.74
1:C:783:PHE:CB	1:C:1630:CYS:SG	2.75	0.74
1:C:4705:VAL:CB	1:C:4778:TRP:CD1	2.70	0.74
1:D:3823:LYS:C	1:D:3825:GLU:N	2.43	0.74
1:D:4088:ILE:O	1:D:4092:ASP:CB	2.35	0.74
1:A:2274:ASP:CA	1:A:2277:ALA:H	1.91	0.74
1:A:2586:VAL:HA	1:A:2587:TYR:CB	2.16	0.74
1:A:4696:ASP:CA	1:A:4697:VAL:CB	2.65	0.74
1:C:1273:ALA:HB1	1:C:1274:HIS:CA	2.13	0.74
1:C:1588:ALA:CB	1:C:1589:PRO:HA	2.18	0.74
1:D:4182:GLU:CD	1:D:4988:TYR:HB2	2.11	0.74
1:A:838:HIS:O	1:A:839:LEU:CB	2.35	0.74
1:A:1124:PHE:CA	1:A:1130:GLN:O	2.36	0.74
1:B:1745:ILE:O	1:B:1746:THR:CB	2.30	0.74
1:B:2624:ARG:CB	1:B:2910:THR:CB	2.65	0.74
1:B:4958:CYS:H	1:B:4964:GLY:HA3	1.50	0.74
1:C:169:LEU:O	1:C:170:ILE:O	2.05	0.74
1:C:3823:LYS:C	1:C:3825:GLU:N	2.43	0.74
1:C:3962:PHE:CE2	1:C:4023:MET:CA	2.30	0.74
1:C:4178:LEU:C	1:C:4178:LEU:HD12	2.13	0.74
1:C:4685:GLY:H	1:C:4689:THR:CB	1.99	0.74
1:D:721:LEU:CA	1:D:728:ARG:H	1.98	0.74
1:D:2342:ASN:HA	1:D:2344:GLU:O	1.87	0.74
1:D:4958:CYS:N	1:D:4964:GLY:HA3	2.03	0.74
1:A:783:PHE:CB	1:A:1630:CYS:SG	2.75	0.74
1:B:280:LEU:O	1:B:314:PHE:O	2.06	0.74
1:B:4195:PHE:HZ	1:B:4991:PHE:HB2	1.50	0.74
1:C:4696:ASP:CA	1:C:4697:VAL:CB	2.65	0.74
1:D:1688:HIS:CA	1:D:1689:VAL:CB	2.65	0.74
1:D:4178:LEU:HD12	1:D:4178:LEU:C	2.13	0.74
1:A:544:LEU:HA	1:A:547:VAL:CB	2.17	0.74
1:A:840:VAL:CB	1:A:1199:VAL:CA	2.65	0.74
1:A:1096:THR:CB	1:A:1198:GLN:HA	2.16	0.74
1:A:2505:PHE:O	1:A:2509:VAL:N	2.18	0.74
1:B:4651:THR:CB	1:B:4799:SER:HG	2.00	0.74
1:C:27:THR:HA	1:C:32:GLN:CA	2.15	0.74
1:C:1122:TYR:HD1	1:C:1133:HIS:O	1.71	0.74
1:C:3114:LYS:CA	1:C:3174:SER:CB	2.63	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4958:CYS:N	1:C:4964:GLY:HA3	2.03	0.74
1:C:4984:ASN:C	1:C:4985:LEU:HD12	2.12	0.74
1:D:280:LEU:O	1:D:314:PHE:O	2.06	0.74
1:D:1085:SER:C	1:D:1155:LEU:CB	2.60	0.74
1:D:4664:LEU:O	1:D:4664:LEU:HD22	1.88	0.74
1:A:4705:VAL:CB	1:A:4778:TRP:CD1	2.70	0.74
1:B:544:LEU:HA	1:B:547:VAL:CB	2.17	0.74
1:B:789:VAL:O	1:B:1627:ALA:C	2.31	0.74
1:B:838:HIS:O	1:B:839:LEU:CB	2.35	0.74
1:C:840:VAL:CB	1:C:1199:VAL:CA	2.65	0.74
1:C:1124:PHE:CB	1:C:1131:ARG:N	2.48	0.74
1:C:1708:ARG:HG2	1:C:1712:TYR:CE2	2.22	0.74
1:C:4235:VAL:HG22	1:C:5019:TRP:HZ3	1.52	0.74
1:D:149:THR:CB	1:D:172:VAL:O	2.36	0.74
1:D:783:PHE:CB	1:D:1630:CYS:SG	2.75	0.74
1:D:838:HIS:O	1:D:839:LEU:CB	2.35	0.74
1:D:1096:THR:CB	1:D:1198:GLN:C	2.61	0.74
1:D:1244:GLN:O	1:D:1604:SER:O	2.05	0.74
1:D:4984:ASN:C	1:D:4985:LEU:HD12	2.12	0.74
1:A:149:THR:CB	1:A:172:VAL:O	2.36	0.74
1:A:3896:ASN:O	1:A:3900:GLN:N	2.15	0.74
1:A:4945:ASP:O	1:A:4948:GLU:HG3	1.88	0.74
1:B:840:VAL:CB	1:B:1199:VAL:CA	2.65	0.74
1:B:1096:THR:CB	1:B:1198:GLN:C	2.61	0.74
1:B:1588:ALA:CB	1:B:1589:PRO:HA	2.18	0.74
1:B:4833:ASN:HD21	1:B:4939:ALA:HB2	1.50	0.74
1:B:4925:ILE:HD12	1:B:4925:ILE:N	2.03	0.74
1:B:4984:ASN:C	1:B:4985:LEU:HD12	2.12	0.74
1:C:280:LEU:O	1:C:314:PHE:O	2.06	0.74
1:C:789:VAL:O	1:C:1627:ALA:C	2.31	0.74
1:C:1085:SER:C	1:C:1155:LEU:CB	2.60	0.74
1:C:1239:SER:O	1:C:1608:MET:HA	1.88	0.74
1:D:2125:HIS:HB2	1:D:3725:TYR:CZ	2.23	0.74
1:D:4800:LEU:HD23	1:D:4801:LEU:N	2.03	0.74
1:A:4776:GLN:HA	1:A:4776:GLN:NE2	1.99	0.74
1:C:149:THR:CB	1:C:172:VAL:O	2.36	0.74
1:C:1124:PHE:CA	1:C:1130:GLN:O	2.36	0.74
1:D:1096:THR:CB	1:D:1198:GLN:HA	2.16	0.74
1:A:119:SER:CB	1:A:146:CYS:CB	2.66	0.73
1:A:280:LEU:O	1:A:314:PHE:O	2.06	0.73
1:A:4800:LEU:HD23	1:A:4801:LEU:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4984:ASN:C	1:A:4985:LEU:HD12	2.12	0.73
1:B:119:SER:CB	1:B:146:CYS:CB	2.66	0.73
1:B:1239:SER:O	1:B:1608:MET:HA	1.88	0.73
1:B:2342:ASN:HA	1:B:2344:GLU:O	1.87	0.73
1:B:2586:VAL:HA	1:B:2587:TYR:CB	2.16	0.73
1:B:4800:LEU:HD23	1:B:4801:LEU:N	2.03	0.73
1:C:789:VAL:O	1:C:1627:ALA:CA	2.36	0.73
1:C:1096:THR:CB	1:C:1198:GLN:C	2.61	0.73
1:C:4925:ILE:N	1:C:4925:ILE:HD12	2.03	0.73
1:D:112:ALA:N	1:D:113:HIS:C	2.44	0.73
1:D:4559:PHE:CE1	1:D:4560:TYR:HE1	2.00	0.73
1:A:1708:ARG:CG	1:A:1712:TYR:HE2	2.01	0.73
1:A:3757:GLU:CB	1:A:4719:PHE:HE2	2.01	0.73
1:A:4178:LEU:C	1:A:4178:LEU:HD12	2.13	0.73
1:A:4195:PHE:HE2	1:A:4991:PHE:CA	1.89	0.73
1:B:1096:THR:CB	1:B:1198:GLN:HA	2.16	0.73
1:B:4664:LEU:O	1:B:4664:LEU:HD22	1.88	0.73
1:D:608:VAL:CA	1:D:613:ALA:HB2	2.18	0.73
1:D:789:VAL:O	1:D:1627:ALA:CA	2.36	0.73
1:D:1708:ARG:CG	1:D:1712:TYR:HE2	2.01	0.73
1:D:2586:VAL:HA	1:D:2587:TYR:CB	2.16	0.73
1:A:348:VAL:CB	1:A:349:GLN:HA	2.18	0.73
1:A:789:VAL:O	1:A:1627:ALA:C	2.31	0.73
1:A:1085:SER:C	1:A:1155:LEU:CB	2.61	0.73
1:B:789:VAL:O	1:B:1627:ALA:CA	2.36	0.73
1:B:2125:HIS:HB2	1:B:3725:TYR:CZ	2.23	0.73
1:B:3833:GLN:CA	1:B:3833:GLN:HE21	2.02	0.73
1:C:1708:ARG:CG	1:C:1712:TYR:HE2	2.01	0.73
1:C:3757:GLU:CB	1:C:4719:PHE:HE2	2.01	0.73
1:C:4800:LEU:HD23	1:C:4801:LEU:N	2.03	0.73
1:D:4783:ILE:CD1	1:D:4789:PHE:CE1	2.72	0.73
1:D:5026:ASP:OD1	1:D:5026:ASP:N	2.20	0.73
1:A:4942:GLU:CB	1:B:4944:ARG:HH22	2.02	0.73
1:A:5025:GLY:C	1:A:5026:ASP:OD1	2.32	0.73
1:B:302:VAL:O	1:B:307:ALA:HB2	1.89	0.73
1:B:783:PHE:CB	1:B:1630:CYS:SG	2.75	0.73
1:B:1708:ARG:CG	1:B:1712:TYR:HE2	2.01	0.73
1:B:4178:LEU:C	1:B:4178:LEU:HD12	2.13	0.73
1:C:119:SER:CB	1:C:146:CYS:CB	2.66	0.73
1:C:4956:THR:O	1:C:4964:GLY:C	2.31	0.73
1:D:1124:PHE:CA	1:D:1130:GLN:O	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4243:PHE:HD2	1:D:4671:PHE:CZ	1.67	0.73
1:D:4925:ILE:HD12	1:D:4925:ILE:N	2.03	0.73
1:D:4968:PHE:CD2	1:D:4978:HIS:HB2	2.21	0.73
1:A:4664:LEU:O	1:A:4664:LEU:HD22	1.88	0.73
1:B:1124:PHE:CB	1:B:1131:ARG:N	2.48	0.73
1:C:838:HIS:O	1:C:839:LEU:CB	2.35	0.73
1:C:4833:ASN:HD21	1:C:4939:ALA:HB2	1.51	0.73
1:D:669:ASP:CB	1:D:788:LYS:O	2.37	0.73
1:D:1122:TYR:HD1	1:D:1133:HIS:O	1.71	0.73
1:D:4696:ASP:CA	1:D:4697:VAL:CB	2.65	0.73
1:D:4956:THR:O	1:D:4964:GLY:C	2.31	0.73
1:A:302:VAL:O	1:A:307:ALA:HB2	1.89	0.73
1:A:789:VAL:O	1:A:1627:ALA:CA	2.36	0.73
1:A:1688:HIS:CA	1:A:1689:VAL:CB	2.65	0.73
1:A:1708:ARG:HG2	1:A:1712:TYR:CE2	2.22	0.73
1:B:344:SER:CB	1:B:345:LEU:CA	2.53	0.73
1:B:1688:HIS:CA	1:B:1689:VAL:CB	2.65	0.73
1:B:5025:GLY:C	1:B:5026:ASP:OD1	2.32	0.73
1:C:3833:GLN:CA	1:C:3833:GLN:HE21	2.02	0.73
1:D:1515:VAL:CA	1:D:1529:PHE:CB	2.66	0.73
1:D:4960:ILE:CB	1:D:4983:HIS:CD2	2.72	0.73
1:D:5031:GLN:HE21	1:D:5032:TYR:HD1	1.36	0.73
1:A:3933:PHE:CE1	1:A:3951:PHE:CE2	2.77	0.73
1:A:4960:ILE:CB	1:A:4983:HIS:CD2	2.72	0.73
1:B:1124:PHE:CA	1:B:1130:GLN:O	2.36	0.73
1:B:4776:GLN:HE21	1:B:4776:GLN:CA	2.00	0.73
1:B:4968:PHE:CD2	1:B:4978:HIS:HB2	2.21	0.73
1:C:1095:VAL:H	1:C:1200:GLY:CA	1.98	0.73
1:C:4696:ASP:CB	1:C:4697:VAL:CG1	2.67	0.73
1:D:119:SER:CB	1:D:146:CYS:CB	2.66	0.73
1:D:3933:PHE:CE1	1:D:3951:PHE:CE2	2.77	0.73
1:A:113:HIS:N	1:A:114:SER:HA	2.00	0.73
1:A:285:VAL:O	1:A:286:THR:CB	2.37	0.73
1:A:669:ASP:CB	1:A:788:LYS:O	2.37	0.73
1:A:2125:HIS:HB2	1:A:3725:TYR:CZ	2.23	0.73
1:A:4936:ILE:HD12	1:D:4930:ALA:HB3	1.70	0.73
1:C:348:VAL:CB	1:C:349:GLN:HA	2.18	0.73
1:C:1515:VAL:CA	1:C:1529:PHE:CB	2.66	0.73
1:C:4952:GLU:OE2	1:C:4953:ASP:N	2.22	0.73
1:D:3114:LYS:CA	1:D:3174:SER:CB	2.63	0.73
1:A:4958:CYS:N	1:A:4964:GLY:HA3	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:149:THR:CB	1:B:172:VAL:O	2.36	0.73
1:C:669:ASP:CB	1:C:788:LYS:O	2.37	0.73
1:C:681:HIS:CA	1:C:784:SER:CB	2.67	0.73
1:D:1246:GLU:O	1:D:1601:MET:C	2.32	0.73
1:A:1096:THR:CB	1:A:1198:GLN:C	2.61	0.73
1:A:3833:GLN:CA	1:A:3833:GLN:HE21	2.02	0.73
1:B:3823:LYS:C	1:B:3825:GLU:N	2.43	0.73
1:B:4958:CYS:N	1:B:4964:GLY:HA3	2.03	0.73
1:B:4960:ILE:CB	1:B:4983:HIS:CD2	2.72	0.73
1:C:3933:PHE:CE1	1:C:3951:PHE:CE2	2.77	0.73
1:D:590:LEU:O	1:D:593:HIS:O	2.07	0.73
1:A:608:VAL:CA	1:A:613:ALA:HB2	2.18	0.72
1:A:1515:VAL:CA	1:A:1529:PHE:CB	2.66	0.72
1:A:2342:ASN:HA	1:A:2344:GLU:O	1.87	0.72
1:A:4652:LEU:HD13	1:A:4652:LEU:C	2.14	0.72
1:A:5026:ASP:OD1	1:A:5026:ASP:N	2.20	0.72
1:C:1286:MET:CB	1:C:1287:LEU:HA	2.19	0.72
1:C:3987:ASP:N	1:C:3988:ALA:HB3	2.04	0.72
1:C:4664:LEU:O	1:C:4664:LEU:HD22	1.88	0.72
1:D:348:VAL:CB	1:D:349:GLN:HA	2.18	0.72
1:A:721:LEU:CA	1:A:728:ARG:H	1.98	0.72
1:A:1246:GLU:O	1:A:1601:MET:C	2.32	0.72
1:A:5031:GLN:HE21	1:A:5032:TYR:HD1	1.36	0.72
1:B:285:VAL:O	1:B:286:THR:CB	2.37	0.72
1:B:1251:GLU:O	1:B:1255:TYR:HA	1.89	0.72
1:B:1286:MET:CB	1:B:1287:LEU:HA	2.19	0.72
1:B:3987:ASP:N	1:B:3988:ALA:HB3	2.04	0.72
1:B:4181:ILE:CD1	1:B:4194:TYR:HA	2.19	0.72
1:B:4652:LEU:C	1:B:4652:LEU:HD13	2.14	0.72
1:B:4783:ILE:CD1	1:B:4789:PHE:CE1	2.72	0.72
1:B:4829:SER:CB	1:B:4940:PHE:HE1	2.02	0.72
1:B:4956:THR:O	1:B:4964:GLY:C	2.31	0.72
1:C:590:LEU:O	1:C:593:HIS:O	2.07	0.72
1:C:608:VAL:CA	1:C:613:ALA:HB2	2.18	0.72
1:C:1251:GLU:O	1:C:1255:TYR:HA	1.89	0.72
1:C:1440:PHE:O	1:C:1441:ALA:CB	2.37	0.72
1:C:2451:LEU:HA	1:C:2454:ARG:CB	2.19	0.72
1:C:4783:ILE:CD1	1:C:4789:PHE:CE1	2.72	0.72
1:D:1239:SER:O	1:D:1608:MET:HA	1.88	0.72
1:D:3757:GLU:CB	1:D:4719:PHE:HE2	2.01	0.72
1:D:3833:GLN:CA	1:D:3833:GLN:HE21	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:ALA:N	1:A:113:HIS:C	2.44	0.72
1:A:590:LEU:O	1:A:593:HIS:O	2.07	0.72
1:A:1239:SER:O	1:A:1608:MET:HA	1.88	0.72
1:A:4183:ILE:HD12	1:A:4183:ILE:N	2.04	0.72
1:A:4886:HIS:O	1:A:4889:VAL:HG22	1.89	0.72
1:B:3757:GLU:CB	1:B:4719:PHE:HE2	2.01	0.72
1:C:2125:HIS:HB2	1:C:3725:TYR:CZ	2.23	0.72
1:C:4995:LEU:HD12	1:C:5011:TRP:CZ3	2.25	0.72
1:C:5031:GLN:HE21	1:C:5032:TYR:HD1	1.36	0.72
1:D:112:ALA:CA	1:D:115:ARG:H	2.02	0.72
1:D:681:HIS:CA	1:D:784:SER:CB	2.67	0.72
1:D:3896:ASN:O	1:D:3900:GLN:N	2.15	0.72
1:D:4696:ASP:CB	1:D:4697:VAL:CG1	2.67	0.72
1:A:344:SER:CB	1:A:345:LEU:CA	2.53	0.72
1:A:4696:ASP:CB	1:A:4697:VAL:CG1	2.67	0.72
1:A:4925:ILE:H	1:A:4925:ILE:HD12	1.54	0.72
1:A:4956:THR:O	1:A:4964:GLY:C	2.31	0.72
1:B:348:VAL:CB	1:B:349:GLN:HA	2.18	0.72
1:B:1095:VAL:H	1:B:1200:GLY:CA	1.98	0.72
1:B:3933:PHE:CE1	1:B:3951:PHE:CE2	2.77	0.72
1:B:4837:LEU:HD23	1:B:4837:LEU:C	2.15	0.72
1:C:3962:PHE:CZ	1:C:4023:MET:HA	2.21	0.72
1:C:4195:PHE:HZ	1:C:4991:PHE:HB2	1.50	0.72
1:C:4197:ILE:HD12	1:C:4990:PHE:CD2	2.24	0.72
1:D:1251:GLU:O	1:D:1255:TYR:HA	1.89	0.72
1:D:2451:LEU:HA	1:D:2454:ARG:CB	2.19	0.72
1:D:3987:ASP:N	1:D:3988:ALA:HB3	2.04	0.72
1:D:4559:PHE:CE2	1:D:4661:TYR:CB	2.72	0.72
1:D:4664:LEU:HD13	1:D:4664:LEU:C	2.15	0.72
1:B:2191:PHE:CD1	1:B:2192:TYR:CD1	2.78	0.72
1:C:3763:LEU:HD23	1:C:3763:LEU:C	2.15	0.72
1:D:112:ALA:C	1:D:115:ARG:N	2.48	0.72
1:D:1588:ALA:CB	1:D:1589:PRO:HA	2.18	0.72
1:A:112:ALA:CA	1:A:115:ARG:H	2.02	0.72
1:A:2191:PHE:CD1	1:A:2192:TYR:CD1	2.78	0.72
1:A:4181:ILE:CD1	1:A:4194:TYR:HA	2.19	0.72
1:A:4821:LYS:O	1:A:4825:THR:N	2.23	0.72
1:A:4850:LEU:C	1:A:4850:LEU:HD23	2.15	0.72
1:A:4925:ILE:HD12	1:A:4925:ILE:N	2.03	0.72
1:B:669:ASP:CB	1:B:788:LYS:O	2.37	0.72
1:B:4925:ILE:HD12	1:B:4925:ILE:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4930:ALA:HB1	1:D:4936:ILE:CD1	2.20	0.72
1:D:285:VAL:O	1:D:286:THR:CB	2.37	0.72
1:D:789:VAL:O	1:D:1627:ALA:C	2.31	0.72
1:D:5025:GLY:C	1:D:5026:ASP:OD1	2.32	0.72
1:A:112:ALA:C	1:A:115:ARG:N	2.48	0.72
1:A:702:TRP:HE1	1:A:1640:HIS:CB	2.02	0.72
1:A:4108:ILE:C	1:A:4108:ILE:HD12	2.15	0.72
1:A:4783:ILE:CD1	1:A:4789:PHE:CE1	2.72	0.72
1:A:4837:LEU:HD23	1:A:4837:LEU:C	2.15	0.72
1:B:608:VAL:CA	1:B:613:ALA:HB2	2.18	0.72
1:B:635:THR:HA	1:B:1639:LEU:CB	2.20	0.72
1:B:4783:ILE:HD13	1:B:4783:ILE:C	2.15	0.72
1:B:4886:HIS:O	1:B:4889:VAL:HG22	1.90	0.72
1:C:302:VAL:O	1:C:307:ALA:HB2	1.89	0.72
1:C:1246:GLU:O	1:C:1601:MET:C	2.32	0.72
1:C:2274:ASP:CA	1:C:2277:ALA:H	1.91	0.72
1:C:4181:ILE:CD1	1:C:4194:TYR:HA	2.19	0.72
1:C:4823:LEU:HD22	1:C:4823:LEU:O	1.90	0.72
1:C:4886:HIS:O	1:C:4889:VAL:HG22	1.89	0.72
1:C:5025:GLY:C	1:C:5026:ASP:OD1	2.32	0.72
1:D:4850:LEU:HD23	1:D:4850:LEU:C	2.15	0.72
1:D:4967:TYR:OH	1:D:5030:LYS:CB	2.38	0.72
1:A:1286:MET:CB	1:A:1287:LEU:HA	2.19	0.72
1:A:4643:LEU:HD12	1:A:4643:LEU:O	1.90	0.72
1:A:4967:TYR:OH	1:A:5030:LYS:CB	2.38	0.72
1:B:3061:ALA:C	1:B:3064:VAL:CA	2.63	0.72
1:B:4696:ASP:CB	1:B:4697:VAL:CG1	2.67	0.72
1:B:4850:LEU:HD23	1:B:4850:LEU:C	2.15	0.72
1:C:1122:TYR:HE1	1:C:1133:HIS:O	1.72	0.72
1:C:3825:GLU:HA	1:C:3826:VAL:CB	2.20	0.72
1:C:4108:ILE:C	1:C:4108:ILE:HD12	2.15	0.72
1:C:4656:LEU:C	1:C:4656:LEU:HD13	2.15	0.72
1:C:4823:LEU:C	1:C:4823:LEU:HD13	2.15	0.72
1:C:4960:ILE:CB	1:C:4983:HIS:CD2	2.72	0.72
1:D:3962:PHE:CZ	1:D:4023:MET:HA	2.21	0.72
1:D:4108:ILE:C	1:D:4108:ILE:HD12	2.15	0.72
1:A:77:ALA:N	1:B:3935:TRP:HD1	1.88	0.72
1:A:635:THR:HA	1:A:1639:LEU:CB	2.20	0.72
1:A:3823:LYS:C	1:A:3825:GLU:N	2.43	0.72
1:A:3987:ASP:N	1:A:3988:ALA:HB3	2.04	0.72
1:A:4171:LEU:C	1:A:4171:LEU:HD23	2.15	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1515:VAL:CA	1:B:1529:PHE:CB	2.66	0.72
1:B:2451:LEU:HA	1:B:2454:ARG:CB	2.19	0.72
1:B:4183:ILE:N	1:B:4183:ILE:HD12	2.04	0.72
1:B:4685:GLY:HA3	1:B:4689:THR:N	2.05	0.72
1:B:4967:TYR:OH	1:B:5030:LYS:CB	2.38	0.72
1:C:4643:LEU:C	1:C:4643:LEU:HD12	2.15	0.72
1:D:2449:GLU:O	1:D:2450:ALA:CB	2.36	0.72
1:D:4925:ILE:HD12	1:D:4925:ILE:H	1.54	0.72
1:D:4927:ILE:C	1:D:4927:ILE:HD12	2.15	0.72
1:A:3934:TYR:HE1	1:A:3935:TRP:CZ3	2.08	0.72
1:A:4783:ILE:C	1:A:4783:ILE:HD13	2.15	0.72
1:A:4823:LEU:HD13	1:A:4823:LEU:C	2.15	0.72
1:A:4927:ILE:HD12	1:A:4927:ILE:C	2.15	0.72
1:B:590:LEU:O	1:B:593:HIS:O	2.07	0.72
1:B:4823:LEU:O	1:B:4823:LEU:HD22	1.90	0.72
1:C:4146:LEU:C	1:C:4146:LEU:HD23	2.15	0.72
1:C:5026:ASP:OD1	1:C:5026:ASP:N	2.20	0.72
1:D:4643:LEU:C	1:D:4643:LEU:HD12	2.15	0.72
1:D:4643:LEU:HD12	1:D:4643:LEU:O	1.90	0.72
1:D:4823:LEU:O	1:D:4823:LEU:HD22	1.90	0.72
1:A:2451:LEU:HA	1:A:2454:ARG:CB	2.19	0.71
1:A:4664:LEU:HD13	1:A:4664:LEU:C	2.15	0.71
1:B:112:ALA:N	1:B:113:HIS:C	2.44	0.71
1:B:1246:GLU:O	1:B:1601:MET:C	2.32	0.71
1:B:4146:LEU:HD23	1:B:4146:LEU:C	2.15	0.71
1:B:4235:VAL:HG22	1:B:5019:TRP:HZ3	1.52	0.71
1:C:285:VAL:O	1:C:286:THR:CB	2.37	0.71
1:C:4559:PHE:CE1	1:C:4560:TYR:HE1	2.00	0.71
1:C:4559:PHE:CE2	1:C:4661:TYR:CB	2.72	0.71
1:C:4664:LEU:HD13	1:C:4664:LEU:C	2.15	0.71
1:D:302:VAL:O	1:D:307:ALA:HB2	1.89	0.71
1:D:3934:TYR:HE1	1:D:3935:TRP:CZ3	2.08	0.71
1:D:4183:ILE:N	1:D:4183:ILE:HD12	2.04	0.71
1:B:112:ALA:C	1:B:115:ARG:N	2.48	0.71
1:B:4930:ALA:HB3	1:C:4936:ILE:HD12	1.71	0.71
1:B:4942:GLU:CB	1:C:4944:ARG:HH22	2.02	0.71
1:B:5031:GLN:HE21	1:B:5032:TYR:HD1	1.36	0.71
1:C:77:ALA:N	1:D:3935:TRP:HD1	1.88	0.71
1:C:4183:ILE:HD12	1:C:4183:ILE:N	2.04	0.71
1:C:4685:GLY:HA3	1:C:4689:THR:N	2.05	0.71
1:C:4837:LEU:HD23	1:C:4837:LEU:C	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4943:LEU:HD13	1:C:4943:LEU:C	2.15	0.71
1:D:4171:LEU:C	1:D:4171:LEU:HD23	2.15	0.71
1:A:1588:ALA:CB	1:A:1589:PRO:HA	2.18	0.71
1:B:667:MET:N	1:B:790:ARG:O	2.24	0.71
1:B:681:HIS:CA	1:B:784:SER:CB	2.67	0.71
1:B:3825:GLU:HA	1:B:3826:VAL:CB	2.20	0.71
1:B:4821:LYS:O	1:B:4825:THR:N	2.23	0.71
1:C:1093:GLU:N	1:C:1201:HIS:O	2.24	0.71
1:D:2191:PHE:CD1	1:D:2192:TYR:CD1	2.78	0.71
1:D:3061:ALA:C	1:D:3064:VAL:CA	2.63	0.71
1:D:3825:GLU:HA	1:D:3826:VAL:CB	2.20	0.71
1:D:4800:LEU:HD23	1:D:4800:LEU:C	2.15	0.71
1:C:635:THR:HA	1:C:1639:LEU:CB	2.20	0.71
1:C:1803:PRO:O	1:C:1806:ALA:HB3	1.90	0.71
1:C:3061:ALA:C	1:C:3064:VAL:CA	2.63	0.71
1:C:3896:ASN:O	1:C:3900:GLN:N	2.15	0.71
1:C:4088:ILE:O	1:C:4089:SER:O	2.07	0.71
1:C:4783:ILE:C	1:C:4783:ILE:HD13	2.15	0.71
1:D:1286:MET:CB	1:D:1287:LEU:HA	2.19	0.71
1:D:3763:LEU:HD23	1:D:3763:LEU:C	2.15	0.71
1:A:4800:LEU:HD23	1:A:4800:LEU:C	2.15	0.71
1:A:4823:LEU:O	1:A:4823:LEU:HD22	1.90	0.71
1:B:1122:TYR:HD1	1:B:1133:HIS:O	1.71	0.71
1:B:3934:TYR:HE1	1:B:3935:TRP:CZ3	2.08	0.71
1:B:4088:ILE:O	1:B:4089:SER:O	2.07	0.71
1:B:4656:LEU:HD13	1:B:4656:LEU:C	2.15	0.71
1:B:5026:ASP:OD1	1:B:5026:ASP:N	2.20	0.71
1:C:112:ALA:C	1:C:115:ARG:N	2.48	0.71
1:C:4652:LEU:HD13	1:C:4652:LEU:C	2.14	0.71
1:D:1679:ASN:O	1:D:1682:ALA:N	2.24	0.71
1:D:4823:LEU:HD13	1:D:4823:LEU:C	2.15	0.71
1:A:667:MET:N	1:A:790:ARG:O	2.24	0.71
1:A:1251:GLU:O	1:A:1255:TYR:HA	1.89	0.71
1:A:4088:ILE:O	1:A:4089:SER:O	2.07	0.71
1:A:4146:LEU:HD23	1:A:4146:LEU:C	2.15	0.71
1:A:4995:LEU:HD13	1:A:4995:LEU:C	2.16	0.71
1:B:27:THR:HA	1:B:32:GLN:CA	2.15	0.71
1:B:1093:GLU:O	1:B:1201:HIS:N	2.23	0.71
1:B:3763:LEU:HD23	1:B:3763:LEU:C	2.15	0.71
1:B:4108:ILE:C	1:B:4108:ILE:HD12	2.15	0.71
1:B:4643:LEU:HD12	1:B:4643:LEU:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4662:ASN:ND2	1:B:4789:PHE:HB2	2.06	0.71
1:D:4146:LEU:HD23	1:D:4146:LEU:C	2.15	0.71
1:D:4197:ILE:HD12	1:D:4990:PHE:CD2	2.24	0.71
1:D:4886:HIS:O	1:D:4889:VAL:HG22	1.89	0.71
1:A:4656:LEU:HD13	1:A:4656:LEU:C	2.15	0.71
1:A:4662:ASN:ND2	1:A:4789:PHE:HB2	2.06	0.71
1:C:112:ALA:CA	1:C:115:ARG:H	2.02	0.71
1:C:4954:MET:HE3	1:C:4954:MET:C	2.16	0.71
1:D:1440:PHE:O	1:D:1441:ALA:CB	2.37	0.71
1:D:4036:VAL:O	1:D:4153:HIS:HD2	1.74	0.71
1:D:4181:ILE:CD1	1:D:4194:TYR:HA	2.19	0.71
1:A:681:HIS:CA	1:A:784:SER:CB	2.67	0.71
1:A:3825:GLU:HA	1:A:3826:VAL:CB	2.20	0.71
1:A:4643:LEU:HD12	1:A:4643:LEU:C	2.15	0.71
1:A:4943:LEU:HD13	1:A:4943:LEU:C	2.15	0.71
1:B:77:ALA:N	1:C:3935:TRP:HD1	1.89	0.71
1:B:1803:PRO:O	1:B:1806:ALA:HB3	1.90	0.71
1:B:4823:LEU:HD13	1:B:4823:LEU:C	2.15	0.71
1:C:1093:GLU:O	1:C:1201:HIS:N	2.23	0.71
1:C:4935:LEU:N	1:C:4935:LEU:HD23	2.05	0.71
1:C:4967:TYR:OH	1:C:5030:LYS:CB	2.38	0.71
1:D:789:VAL:C	1:D:1627:ALA:HB1	2.16	0.71
1:D:4652:LEU:HD13	1:D:4652:LEU:C	2.15	0.71
1:D:4837:LEU:HD23	1:D:4837:LEU:C	2.15	0.71
1:B:4171:LEU:HD23	1:B:4171:LEU:C	2.15	0.71
1:C:2505:PHE:O	1:C:2509:VAL:N	2.18	0.71
1:C:4036:VAL:O	1:C:4153:HIS:HD2	1.74	0.71
1:D:635:THR:HA	1:D:1639:LEU:CB	2.20	0.71
1:D:918:ARG:CA	1:D:921:ASN:H	1.89	0.71
1:D:1023:PRO:O	1:D:1026:LEU:N	2.24	0.71
1:A:789:VAL:C	1:A:1627:ALA:HB1	2.16	0.71
1:A:1679:ASN:O	1:A:1682:ALA:N	2.24	0.71
1:A:2767:ALA:CB	1:A:2855:TYR:O	2.30	0.71
1:A:4147:LEU:C	1:A:4147:LEU:HD13	2.16	0.71
1:A:4685:GLY:HA3	1:A:4689:THR:N	2.05	0.71
1:A:4935:LEU:HD23	1:A:4935:LEU:N	2.05	0.71
1:B:1679:ASN:O	1:B:1682:ALA:N	2.24	0.71
1:B:3962:PHE:CZ	1:B:4023:MET:HA	2.21	0.71
1:B:4197:ILE:HD12	1:B:4990:PHE:CD2	2.24	0.71
1:B:4664:LEU:C	1:B:4664:LEU:HD13	2.15	0.71
1:B:4995:LEU:HD12	1:B:5011:TRP:CZ3	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:702:TRP:HE1	1:C:1640:HIS:CB	2.02	0.71
1:C:789:VAL:C	1:C:1627:ALA:HB1	2.16	0.71
1:C:1679:ASN:O	1:C:1682:ALA:N	2.24	0.71
1:C:4147:LEU:HD13	1:C:4147:LEU:C	2.16	0.71
1:C:4235:VAL:CG2	1:C:5019:TRP:CE3	2.50	0.71
1:C:4934:GLY:O	1:C:4938:ASP:N	2.17	0.71
1:D:1093:GLU:N	1:D:1201:HIS:O	2.24	0.71
1:D:3914:ASN:O	1:D:3917:ILE:N	2.23	0.71
1:D:4685:GLY:HA3	1:D:4689:THR:N	2.05	0.71
1:D:4954:MET:HE3	1:D:4954:MET:C	2.16	0.71
1:A:1093:GLU:N	1:A:1201:HIS:O	2.24	0.70
1:A:1440:PHE:O	1:A:1441:ALA:CB	2.37	0.70
1:A:4776:GLN:HE21	1:A:4776:GLN:CA	2.00	0.70
1:B:302:VAL:O	1:B:307:ALA:CB	2.39	0.70
1:B:1093:GLU:N	1:B:1201:HIS:O	2.24	0.70
1:B:2274:ASP:CA	1:B:2277:ALA:H	1.91	0.70
1:B:4559:PHE:CE2	1:B:4661:TYR:CB	2.72	0.70
1:B:4643:LEU:HD12	1:B:4643:LEU:C	2.15	0.70
1:B:4800:LEU:HD23	1:B:4800:LEU:C	2.15	0.70
1:B:4806:ASN:HD22	1:B:4806:ASN:N	1.89	0.70
1:B:4933:GLN:O	1:B:4936:ILE:HG22	1.91	0.70
1:C:291:LEU:HA	1:C:301:VAL:CB	2.21	0.70
1:C:2102:VAL:HA	1:C:2105:TRP:HD1	1.56	0.70
1:C:4643:LEU:HD12	1:C:4643:LEU:O	1.90	0.70
1:C:4850:LEU:HD23	1:C:4850:LEU:C	2.15	0.70
1:D:1721:GLU:O	1:D:1723:ALA:N	2.24	0.70
1:A:291:LEU:HA	1:A:301:VAL:CB	2.21	0.70
1:B:112:ALA:CA	1:B:115:ARG:H	2.02	0.70
1:B:1721:GLU:O	1:B:1723:ALA:N	2.24	0.70
1:C:214:VAL:O	1:C:215:THR:CB	2.39	0.70
1:C:302:VAL:O	1:C:307:ALA:CB	2.39	0.70
1:C:4171:LEU:HD23	1:C:4171:LEU:C	2.15	0.70
1:D:4088:ILE:O	1:D:4089:SER:O	2.07	0.70
1:D:4662:ASN:ND2	1:D:4789:PHE:HB2	2.06	0.70
1:D:4783:ILE:HD13	1:D:4783:ILE:C	2.15	0.70
1:A:67:PHE:O	1:A:68:THR:CB	2.40	0.70
1:B:291:LEU:HA	1:B:301:VAL:CB	2.21	0.70
1:B:702:TRP:HE1	1:B:1640:HIS:CB	2.02	0.70
1:B:4147:LEU:HD13	1:B:4147:LEU:C	2.16	0.70
1:B:4181:ILE:HG21	1:B:4193:ILE:N	2.07	0.70
1:C:2191:PHE:CD1	1:C:2192:TYR:CD1	2.78	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4181:ILE:HG21	1:C:4193:ILE:N	2.07	0.70
1:C:4662:ASN:ND2	1:C:4789:PHE:HB2	2.05	0.70
1:D:4995:LEU:C	1:D:4995:LEU:HD13	2.16	0.70
1:D:4995:LEU:HD13	1:D:4995:LEU:O	1.92	0.70
1:A:4984:ASN:O	1:A:4986:ALA:N	2.24	0.70
1:B:1023:PRO:O	1:B:1026:LEU:N	2.24	0.70
1:B:4927:ILE:C	1:B:4927:ILE:HD12	2.15	0.70
1:C:112:ALA:N	1:C:113:HIS:C	2.44	0.70
1:C:4927:ILE:C	1:C:4927:ILE:HD12	2.15	0.70
1:A:214:VAL:O	1:A:215:THR:CB	2.39	0.70
1:A:3763:LEU:C	1:A:3763:LEU:HD23	2.15	0.70
1:A:3914:ASN:O	1:A:3917:ILE:N	2.23	0.70
1:A:4954:MET:HE3	1:A:4954:MET:C	2.16	0.70
1:B:4954:MET:HE3	1:B:4954:MET:C	2.16	0.70
1:C:667:MET:N	1:C:790:ARG:O	2.24	0.70
1:C:2194:HIS:HA	1:C:2197:LEU:CB	2.22	0.70
1:C:3934:TYR:HE1	1:C:3935:TRP:CZ3	2.08	0.70
1:C:4729:GLY:CA	1:C:4732:PHE:H	2.05	0.70
1:C:4821:LYS:O	1:C:4825:THR:N	2.23	0.70
1:C:4995:LEU:HD13	1:C:4995:LEU:C	2.16	0.70
1:D:302:VAL:O	1:D:307:ALA:CB	2.39	0.70
1:D:3937:TYR:OH	1:D:3943:ILE:O	2.10	0.70
1:D:4656:LEU:HD13	1:D:4656:LEU:C	2.15	0.70
1:A:501:ALA:HB3	1:A:504:ALA:H	1.57	0.70
1:A:4934:GLY:O	1:A:4938:ASP:N	2.18	0.70
1:B:168:ASP:HA	1:B:200:TRP:O	1.92	0.70
1:B:2194:HIS:HA	1:B:2197:LEU:CB	2.22	0.70
1:C:1211:LEU:O	1:C:1213:PHE:HA	1.92	0.70
1:C:2105:TRP:CE3	1:C:2106:ALA:HA	2.27	0.70
1:C:4925:ILE:HD12	1:C:4925:ILE:H	1.54	0.70
1:D:4195:PHE:HZ	1:D:4991:PHE:HB2	1.50	0.70
1:A:302:VAL:O	1:A:307:ALA:CB	2.39	0.70
1:B:4036:VAL:O	1:B:4153:HIS:HD2	1.74	0.70
1:C:1164:LEU:C	1:C:1166:GLY:H	2.00	0.70
1:C:3837:GLN:CD	1:C:3838:THR:H	2.00	0.70
1:C:4995:LEU:HD13	1:C:4995:LEU:O	1.92	0.70
1:D:168:ASP:HA	1:D:200:TRP:O	1.92	0.70
1:D:702:TRP:HE1	1:D:1640:HIS:CB	2.02	0.70
1:D:4768:LEU:HD13	1:D:4770:SER:N	2.07	0.70
1:A:1023:PRO:O	1:A:1026:LEU:N	2.24	0.70
1:A:4930:ALA:HB1	1:B:4936:ILE:CD1	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1122:TYR:HE1	1:B:1133:HIS:O	1.72	0.70
1:B:3937:TYR:OH	1:B:3943:ILE:O	2.10	0.70
1:B:4995:LEU:HD13	1:B:4995:LEU:C	2.16	0.70
1:C:3933:PHE:CE2	1:C:3951:PHE:HD2	2.06	0.70
1:C:4800:LEU:HD23	1:C:4800:LEU:C	2.15	0.70
1:A:168:ASP:HA	1:A:200:TRP:O	1.92	0.70
1:A:1721:GLU:O	1:A:1723:ALA:N	2.24	0.70
1:A:2105:TRP:CE3	1:A:2106:ALA:HA	2.27	0.70
1:A:4181:ILE:HG21	1:A:4193:ILE:N	2.06	0.70
1:A:4926:VAL:HG13	1:A:4927:ILE:N	2.07	0.70
1:A:4936:ILE:CD1	1:D:4930:ALA:CB	2.70	0.70
1:B:3837:GLN:CD	1:B:3838:THR:H	2.00	0.70
1:C:1023:PRO:O	1:C:1026:LEU:N	2.24	0.70
1:D:67:PHE:O	1:D:68:THR:CB	2.40	0.70
1:D:2190:VAL:O	1:D:2191:PHE:CB	2.40	0.70
1:D:4147:LEU:C	1:D:4147:LEU:HD13	2.16	0.70
1:D:4181:ILE:HD11	1:D:4195:PHE:H	1.57	0.70
1:D:4943:LEU:HD13	1:D:4943:LEU:C	2.15	0.70
1:A:3937:TYR:OH	1:A:3943:ILE:O	2.10	0.70
1:A:4806:ASN:HD22	1:A:4806:ASN:N	1.89	0.70
1:B:1164:LEU:C	1:B:1166:GLY:H	2.00	0.70
1:B:4926:VAL:HG13	1:B:4927:ILE:N	2.07	0.70
1:B:4943:LEU:C	1:B:4943:LEU:HD13	2.16	0.70
1:D:1803:PRO:O	1:D:1806:ALA:HB3	1.91	0.70
1:D:4933:GLN:O	1:D:4936:ILE:HG22	1.91	0.70
1:A:2194:HIS:HA	1:A:2197:LEU:CB	2.22	0.69
1:A:4181:ILE:HD11	1:A:4195:PHE:N	2.07	0.69
1:B:789:VAL:C	1:B:1627:ALA:HB1	2.16	0.69
1:B:4729:GLY:CA	1:B:4732:PHE:H	2.05	0.69
1:C:1745:ILE:O	1:C:1746:THR:CB	2.30	0.69
1:C:4181:ILE:HD11	1:C:4195:PHE:N	2.07	0.69
1:D:214:VAL:O	1:D:215:THR:CB	2.39	0.69
1:D:3933:PHE:CE2	1:D:3951:PHE:HD2	2.06	0.69
1:D:4181:ILE:HD11	1:D:4195:PHE:N	2.07	0.69
1:A:1093:GLU:O	1:A:1201:HIS:N	2.23	0.69
1:A:3837:GLN:CD	1:A:3838:THR:H	2.00	0.69
1:A:3935:TRP:HD1	1:D:77:ALA:N	1.89	0.69
1:A:4036:VAL:O	1:A:4153:HIS:HD2	1.74	0.69
1:A:4235:VAL:CG2	1:A:5019:TRP:CE3	2.50	0.69
1:A:4687:TYR:CA	1:A:4691:GLN:CB	2.53	0.69
1:B:67:PHE:O	1:B:68:THR:CB	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4971:THR:HG23	1:B:4974:GLY:CA	2.17	0.69
1:C:2190:VAL:O	1:C:2191:PHE:CB	2.40	0.69
1:D:1093:GLU:O	1:D:1201:HIS:N	2.23	0.69
1:D:4181:ILE:HG21	1:D:4193:ILE:N	2.06	0.69
1:A:4575:PHE:CD1	1:A:4576:ILE:N	2.61	0.69
1:B:1290:ARG:CA	1:B:1551:ALA:HB2	2.19	0.69
1:B:4181:ILE:HD11	1:B:4195:PHE:N	2.07	0.69
1:C:1721:GLU:O	1:C:1723:ALA:N	2.24	0.69
1:D:291:LEU:HA	1:D:301:VAL:CB	2.21	0.69
1:D:2194:HIS:HA	1:D:2197:LEU:CB	2.22	0.69
1:D:4729:GLY:CA	1:D:4732:PHE:H	2.05	0.69
1:B:4235:VAL:CG2	1:B:5019:TRP:CE3	2.50	0.69
1:C:4924:VAL:HG23	1:C:4925:ILE:N	2.07	0.69
1:D:4776:GLN:HE21	1:D:4776:GLN:CA	2.00	0.69
1:D:4971:THR:HG23	1:D:4974:GLY:CA	2.17	0.69
1:A:1211:LEU:O	1:A:1213:PHE:HA	1.92	0.69
1:A:2125:HIS:HB2	1:A:3725:TYR:OH	1.93	0.69
1:A:3061:ALA:C	1:A:3064:VAL:CA	2.63	0.69
1:B:1211:LEU:O	1:B:1213:PHE:HA	1.92	0.69
1:C:2125:HIS:HB2	1:C:3725:TYR:OH	1.93	0.69
1:C:4181:ILE:HD11	1:C:4195:PHE:H	1.57	0.69
1:C:4575:PHE:CD1	1:C:4576:ILE:N	2.61	0.69
1:D:2102:VAL:HA	1:D:2105:TRP:HD1	1.56	0.69
1:A:701:GLY:H	1:A:1645:ASN:CB	2.05	0.69
1:B:787:VAL:O	1:B:1630:CYS:N	2.26	0.69
1:B:4784:PHE:C	1:B:4789:PHE:CE2	2.59	0.69
1:B:4915:VAL:O	1:B:4918:ILE:HG22	1.93	0.69
1:B:4924:VAL:HG23	1:B:4925:ILE:N	2.07	0.69
1:C:4795:TYR:HE1	1:C:4813:LEU:HA	1.58	0.69
1:C:4915:VAL:O	1:C:4918:ILE:HG22	1.93	0.69
1:D:346:CYS:O	1:D:387:ALA:CA	2.27	0.69
1:D:1211:LEU:O	1:D:1213:PHE:HA	1.92	0.69
1:D:1745:ILE:O	1:D:1746:THR:CB	2.30	0.69
1:D:2105:TRP:CE3	1:D:2106:ALA:HA	2.27	0.69
1:D:3837:GLN:CD	1:D:3838:THR:H	2.00	0.69
1:D:4916:PHE:O	1:D:4919:THR:HG23	1.93	0.69
1:A:25:SER:O	1:A:26:ALA:O	2.11	0.69
1:A:4559:PHE:CE1	1:A:4560:TYR:HE1	2.00	0.69
1:B:1129:GLY:O	1:B:1138:PRO:HA	1.92	0.69
1:C:701:GLY:H	1:C:1645:ASN:CB	2.05	0.69
1:C:3937:TYR:OH	1:C:3943:ILE:O	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:701:GLY:H	1:D:1645:ASN:CB	2.05	0.69
1:A:3935:TRP:CD1	1:D:77:ALA:CB	2.75	0.69
1:A:4673:ARG:HH11	1:A:4673:ARG:CB	2.04	0.69
1:A:4729:GLY:CA	1:A:4732:PHE:H	2.05	0.69
1:B:25:SER:O	1:B:26:ALA:O	2.11	0.69
1:B:77:ALA:CB	1:C:3935:TRP:CD1	2.75	0.69
1:B:2435:ARG:CB	1:B:2501:SER:CB	2.71	0.69
1:B:3933:PHE:CE2	1:B:3951:PHE:HD2	2.07	0.69
1:B:4795:TYR:HE1	1:B:4813:LEU:HA	1.58	0.69
1:B:4916:PHE:O	1:B:4919:THR:HG23	1.93	0.69
1:B:4930:ALA:CB	1:C:4936:ILE:CD1	2.71	0.69
1:C:67:PHE:O	1:C:68:THR:CB	2.40	0.69
1:C:1213:PHE:HA	1:C:1214:PHE:CB	2.22	0.69
1:C:3933:PHE:CE1	1:C:3951:PHE:HD2	2.02	0.69
1:C:4916:PHE:O	1:C:4919:THR:HG23	1.93	0.69
1:C:4936:ILE:HG23	1:C:4937:ILE:N	2.07	0.69
1:C:4978:HIS:CE1	1:C:4983:HIS:HE2	1.78	0.69
1:D:4575:PHE:CD1	1:D:4576:ILE:N	2.61	0.69
1:D:4687:TYR:CA	1:D:4691:GLN:CB	2.53	0.69
1:D:4806:ASN:HD22	1:D:4806:ASN:N	1.89	0.69
1:A:1129:GLY:O	1:A:1138:PRO:HA	1.92	0.69
1:A:1745:ILE:O	1:A:1746:THR:CB	2.30	0.69
1:A:3962:PHE:CZ	1:A:4023:MET:HA	2.21	0.69
1:B:2105:TRP:CE3	1:B:2106:ALA:HA	2.27	0.69
1:C:4806:ASN:N	1:C:4806:ASN:HD22	1.89	0.69
1:D:667:MET:N	1:D:790:ARG:O	2.24	0.69
1:D:4821:LYS:O	1:D:4825:THR:N	2.23	0.69
1:D:4926:VAL:HG13	1:D:4927:ILE:N	2.07	0.69
1:A:460:GLN:C	1:A:462:GLU:N	2.34	0.69
1:A:1164:LEU:C	1:A:1166:GLY:H	2.00	0.69
1:A:3833:GLN:HE21	1:A:3833:GLN:C	2.01	0.69
1:B:701:GLY:H	1:B:1645:ASN:CB	2.05	0.69
1:B:2125:HIS:HB2	1:B:3725:TYR:OH	1.93	0.69
1:D:501:ALA:HB3	1:D:504:ALA:H	1.57	0.69
1:D:1083:VAL:O	1:D:1187:GLY:CA	2.41	0.69
1:D:1213:PHE:HA	1:D:1214:PHE:CB	2.22	0.69
1:A:1803:PRO:O	1:A:1806:ALA:HB3	1.90	0.68
1:B:346:CYS:O	1:B:387:ALA:CA	2.27	0.68
1:C:787:VAL:O	1:C:1630:CYS:N	2.26	0.68
1:D:546:TRP:CE3	1:D:547:VAL:HA	2.29	0.68
1:D:1164:LEU:C	1:D:1166:GLY:H	2.00	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:ARG:O	1:A:300:VAL:C	2.37	0.68
1:A:787:VAL:O	1:A:1630:CYS:N	2.26	0.68
1:B:546:TRP:CE3	1:B:547:VAL:HA	2.28	0.68
1:C:4088:ILE:O	1:C:4093:PHE:N	2.27	0.68
1:D:3833:GLN:HE21	1:D:3833:GLN:C	2.01	0.68
1:A:77:ALA:CA	1:B:3935:TRP:HD1	2.06	0.68
1:A:4559:PHE:CE2	1:A:4661:TYR:CB	2.72	0.68
1:B:242:ARG:O	1:B:300:VAL:C	2.37	0.68
1:B:4687:TYR:H	1:B:4692:PRO:HD3	1.59	0.68
1:B:4783:ILE:HD13	1:B:4789:PHE:CZ	2.28	0.68
1:B:4995:LEU:HD13	1:B:4995:LEU:O	1.92	0.68
1:C:168:ASP:HA	1:C:200:TRP:O	1.92	0.68
1:C:2767:ALA:CB	1:C:2855:TYR:O	2.30	0.68
1:D:25:SER:O	1:D:26:ALA:O	2.11	0.68
1:D:2435:ARG:CB	1:D:2501:SER:CB	2.71	0.68
1:D:4088:ILE:O	1:D:4093:PHE:N	2.27	0.68
1:A:546:TRP:CE3	1:A:547:VAL:HA	2.29	0.68
1:A:1122:TYR:HD1	1:A:1133:HIS:O	1.71	0.68
1:A:1213:PHE:HA	1:A:1214:PHE:CB	2.22	0.68
1:B:1287:LEU:CB	1:B:1554:VAL:O	2.42	0.68
1:B:3833:GLN:HE21	1:B:3833:GLN:C	2.01	0.68
1:B:4575:PHE:CD1	1:B:4576:ILE:N	2.61	0.68
1:B:4930:ALA:HB1	1:C:4936:ILE:HD13	1.75	0.68
1:C:262:LEU:CB	1:C:263:GLU:HA	2.24	0.68
1:C:596:ASN:C	1:C:598:LYS:H	2.01	0.68
1:C:1290:ARG:N	1:C:1551:ALA:CB	2.57	0.68
1:C:2161:GLN:NE2	1:C:2178:MET:CB	2.56	0.68
1:D:229:GLU:CA	1:D:248:GLU:O	2.42	0.68
1:D:1290:ARG:N	1:D:1551:ALA:CB	2.57	0.68
1:A:77:ALA:CB	1:B:3935:TRP:CD1	2.74	0.68
1:A:229:GLU:CA	1:A:248:GLU:O	2.42	0.68
1:A:1287:LEU:CB	1:A:1554:VAL:O	2.42	0.68
1:A:2102:VAL:HA	1:A:2105:TRP:HD1	1.57	0.68
1:A:4936:ILE:HG23	1:A:4937:ILE:N	2.07	0.68
1:B:501:ALA:HB3	1:B:504:ALA:H	1.57	0.68
1:B:4088:ILE:O	1:B:4093:PHE:N	2.27	0.68
1:C:1133:HIS:H	1:C:1135:GLY:N	1.92	0.68
1:D:242:ARG:O	1:D:300:VAL:C	2.37	0.68
1:D:1129:GLY:O	1:D:1138:PRO:HA	1.92	0.68
1:D:1287:LEU:CB	1:D:1554:VAL:O	2.42	0.68
1:A:1273:ALA:CB	1:A:1274:HIS:HA	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3792:ALA:O	1:A:3795:SER:N	2.27	0.68
1:B:1440:PHE:O	1:B:1441:ALA:CB	2.37	0.68
1:B:3792:ALA:O	1:B:3795:SER:N	2.27	0.68
1:C:242:ARG:O	1:C:300:VAL:C	2.37	0.68
1:C:501:ALA:HB3	1:C:504:ALA:H	1.57	0.68
1:C:1129:GLY:O	1:C:1138:PRO:HA	1.92	0.68
1:C:1748:PHE:O	1:C:1751:GLY:O	2.12	0.68
1:C:2435:ARG:CB	1:C:2501:SER:CB	2.71	0.68
1:C:4687:TYR:CA	1:C:4691:GLN:CB	2.53	0.68
1:C:4926:VAL:HG13	1:C:4927:ILE:N	2.07	0.68
1:C:4944:ARG:HD2	1:C:4944:ARG:C	2.19	0.68
1:A:262:LEU:CB	1:A:263:GLU:HA	2.24	0.68
1:A:2435:ARG:CB	1:A:2501:SER:CB	2.71	0.68
1:A:3061:ALA:O	1:A:3064:VAL:C	2.37	0.68
1:A:4181:ILE:HD11	1:A:4195:PHE:H	1.57	0.68
1:A:4701:TRP:CH2	1:A:4781:GLY:C	2.72	0.68
1:B:721:LEU:O	1:B:727:ALA:HA	1.94	0.68
1:B:2190:VAL:O	1:B:2191:PHE:CB	2.40	0.68
1:C:4783:ILE:HD13	1:C:4789:PHE:CZ	2.28	0.68
1:D:4783:ILE:HD13	1:D:4789:PHE:CZ	2.28	0.68
1:D:4915:VAL:O	1:D:4918:ILE:HG22	1.93	0.68
1:A:2586:VAL:CA	1:A:2587:TYR:CB	2.71	0.68
1:A:4180:ARG:CA	1:A:4181:ILE:HG12	2.24	0.68
1:A:4936:ILE:HD13	1:D:4930:ALA:HB1	1.74	0.68
1:A:4995:LEU:HD11	1:A:5011:TRP:HE3	0.84	0.68
1:B:1213:PHE:HA	1:B:1214:PHE:CB	2.22	0.68
1:B:4715:TYR:HE1	1:B:4717:ASP:CB	2.07	0.68
1:C:1287:LEU:CB	1:C:1554:VAL:O	2.42	0.68
1:C:3717:ASP:O	1:C:3719:ASP:N	2.27	0.68
1:D:2125:HIS:HB2	1:D:3725:TYR:OH	1.93	0.68
1:D:4701:TRP:CH2	1:D:4781:GLY:C	2.72	0.68
1:D:4715:TYR:HE1	1:D:4717:ASP:CB	2.07	0.68
1:B:262:LEU:CB	1:B:263:GLU:HA	2.24	0.68
1:B:1748:PHE:O	1:B:1751:GLY:O	2.12	0.68
1:B:4559:PHE:CE1	1:B:4560:TYR:HE1	2.00	0.68
1:C:4715:TYR:HE1	1:C:4717:ASP:CB	2.07	0.68
1:D:990:GLU:O	1:D:994:ASN:N	2.27	0.68
1:D:4653:VAL:C	1:D:4657:CYS:HG	2.00	0.68
1:D:4966:ASP:CB	1:D:4969:ASP:CB	2.72	0.68
1:A:4088:ILE:O	1:A:4093:PHE:N	2.27	0.68
1:A:4783:ILE:HD13	1:A:4789:PHE:CZ	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4916:PHE:O	1:A:4919:THR:HG23	1.93	0.68
1:A:4936:ILE:HD12	1:D:4930:ALA:CB	2.24	0.68
1:B:214:VAL:O	1:B:215:THR:CB	2.39	0.68
1:B:1124:PHE:CA	1:B:1131:ARG:CA	2.52	0.68
1:C:25:SER:O	1:C:26:ALA:O	2.11	0.68
1:D:262:LEU:CB	1:D:263:GLU:HA	2.24	0.68
1:B:3914:ASN:O	1:B:3917:ILE:N	2.23	0.67
1:A:1083:VAL:O	1:A:1187:GLY:CA	2.41	0.67
1:A:1122:TYR:HE1	1:A:1133:HIS:O	1.72	0.67
1:A:3933:PHE:CE2	1:A:3951:PHE:HD2	2.07	0.67
1:B:77:ALA:HB2	1:C:3935:TRP:CD1	2.29	0.67
1:C:721:LEU:O	1:C:727:ALA:HA	1.94	0.67
1:C:1083:VAL:O	1:C:1187:GLY:CA	2.41	0.67
1:C:4180:ARG:HA	1:C:4181:ILE:HB	1.77	0.67
1:C:4192:ARG:NH1	1:C:5028:PHE:CD2	2.63	0.67
1:A:2161:GLN:NE2	1:A:2178:MET:CB	2.56	0.67
1:A:4192:ARG:NH1	1:A:5028:PHE:CD2	2.63	0.67
1:A:4921:PHE:O	1:A:4925:ILE:HD13	1.94	0.67
1:A:4924:VAL:HG23	1:A:4925:ILE:N	2.07	0.67
1:B:596:ASN:C	1:B:598:LYS:H	2.01	0.67
1:C:546:TRP:CE3	1:C:547:VAL:HA	2.29	0.67
1:D:1133:HIS:H	1:D:1135:GLY:N	1.92	0.67
1:D:4685:GLY:C	1:D:4689:THR:H	2.03	0.67
1:A:67:PHE:O	1:A:110:ARG:O	2.13	0.67
1:A:4180:ARG:HA	1:A:4181:ILE:HB	1.77	0.67
1:A:4715:TYR:HE1	1:A:4717:ASP:CB	2.07	0.67
1:B:4192:ARG:NH1	1:B:5028:PHE:CD2	2.63	0.67
1:B:4966:ASP:CB	1:B:4969:ASP:CB	2.72	0.67
1:C:990:GLU:O	1:C:994:ASN:N	2.27	0.67
1:C:1117:ALA:HA	1:C:1134:LEU:CB	2.25	0.67
1:C:4701:TRP:CH2	1:C:4781:GLY:C	2.72	0.67
1:A:1748:PHE:O	1:A:1751:GLY:O	2.12	0.67
1:A:2495:VAL:CB	1:A:2496:PRO:HD3	2.25	0.67
1:A:3935:TRP:CD1	1:D:77:ALA:HB2	2.29	0.67
1:A:4795:TYR:HE1	1:A:4813:LEU:HA	1.58	0.67
1:A:5010:VAL:HG23	1:A:5011:TRP:N	2.10	0.67
1:B:67:PHE:O	1:B:110:ARG:O	2.13	0.67
1:B:1083:VAL:O	1:B:1187:GLY:CA	2.41	0.67
1:C:229:GLU:CA	1:C:248:GLU:O	2.42	0.67
1:C:3833:GLN:HE21	1:C:3833:GLN:C	2.01	0.67
1:C:4696:ASP:CB	1:C:4697:VAL:HG13	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1748:PHE:O	1:D:1751:GLY:O	2.12	0.67
1:D:4696:ASP:HA	1:D:4697:VAL:CB	2.22	0.67
1:D:4795:TYR:HE1	1:D:4813:LEU:HA	1.57	0.67
1:D:4924:VAL:HG23	1:D:4925:ILE:N	2.07	0.67
1:A:721:LEU:O	1:A:727:ALA:HA	1.94	0.67
1:A:990:GLU:O	1:A:994:ASN:N	2.27	0.67
1:A:3717:ASP:O	1:A:3719:ASP:N	2.27	0.67
1:A:4235:VAL:HG22	1:A:5019:TRP:HZ3	1.52	0.67
1:A:4966:ASP:CB	1:A:4969:ASP:CB	2.72	0.67
1:B:990:GLU:O	1:B:994:ASN:N	2.27	0.67
1:B:2495:VAL:CB	1:B:2496:PRO:HD3	2.25	0.67
1:C:644:ILE:O	1:C:781:VAL:N	2.24	0.67
1:C:1708:ARG:HG2	1:C:1712:TYR:HE2	1.59	0.67
1:C:3758:MET:O	1:C:3759:GLU:C	2.38	0.67
1:C:4183:ILE:CG2	1:C:4190:ILE:C	2.68	0.67
1:D:3792:ALA:O	1:D:3795:SER:N	2.27	0.67
1:D:5010:VAL:HG23	1:D:5011:TRP:N	2.10	0.67
1:A:4768:LEU:HD13	1:A:4770:SER:N	2.07	0.67
1:A:4915:VAL:O	1:A:4918:ILE:HG22	1.93	0.67
1:A:5016:GLU:CB	1:A:5017:ARG:C	2.68	0.67
1:B:2586:VAL:CA	1:B:2587:TYR:CB	2.71	0.67
1:B:4180:ARG:HA	1:B:4181:ILE:HB	1.77	0.67
1:B:4673:ARG:HH11	1:B:4673:ARG:CB	2.04	0.67
1:D:404:ILE:CB	1:D:478:PHE:CE1	2.78	0.67
1:A:77:ALA:HB2	1:B:3935:TRP:CD1	2.29	0.67
1:B:77:ALA:CA	1:C:3935:TRP:HD1	2.08	0.67
1:B:148:TRP:HA	1:B:149:THR:CB	2.25	0.67
1:B:685:GLY:CA	1:B:712:TYR:O	2.43	0.67
1:B:2161:GLN:NE2	1:B:2178:MET:CB	2.56	0.67
1:B:4180:ARG:N	1:B:4181:ILE:HD13	2.10	0.67
1:B:4768:LEU:HD13	1:B:4770:SER:N	2.07	0.67
1:C:404:ILE:CB	1:C:478:PHE:CE1	2.78	0.67
1:C:4966:ASP:CB	1:C:4969:ASP:CB	2.72	0.67
1:D:721:LEU:O	1:D:727:ALA:HA	1.94	0.67
1:D:1821:ASP:C	1:D:1823:GLY:H	2.03	0.67
1:A:2190:VAL:O	1:A:2191:PHE:CB	2.40	0.67
1:B:3717:ASP:O	1:B:3719:ASP:N	2.27	0.67
1:B:3758:MET:O	1:B:3759:GLU:C	2.38	0.67
1:B:4696:ASP:CB	1:B:4697:VAL:HG13	2.25	0.67
1:B:4701:TRP:CH2	1:B:4781:GLY:C	2.72	0.67
1:C:918:ARG:CA	1:C:921:ASN:H	1.89	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3914:ASN:O	1:C:3917:ILE:N	2.23	0.67
1:C:4180:ARG:CA	1:C:4181:ILE:HG12	2.24	0.67
1:C:4251:ILE:C	1:C:4553:ASN:HD22	2.03	0.67
1:D:4935:LEU:N	1:D:4935:LEU:HD23	2.10	0.67
1:A:148:TRP:HA	1:A:149:THR:CB	2.25	0.67
1:A:1133:HIS:H	1:A:1135:GLY:N	1.92	0.67
1:A:3758:MET:O	1:A:3759:GLU:C	2.38	0.67
1:A:3984:ARG:HD2	1:A:3984:ARG:O	1.95	0.67
1:A:4183:ILE:CG2	1:A:4190:ILE:C	2.68	0.67
1:A:4936:ILE:CD1	1:D:4930:ALA:HB1	2.25	0.67
1:B:39:ALA:CB	1:B:47:CYS:CB	2.67	0.67
1:B:229:GLU:CA	1:B:248:GLU:O	2.42	0.67
1:B:1601:MET:CB	1:B:1602:PRO:HA	2.25	0.67
1:C:685:GLY:CA	1:C:712:TYR:O	2.43	0.67
1:C:3792:ALA:O	1:C:3795:SER:N	2.27	0.67
1:C:4180:ARG:N	1:C:4181:ILE:HD13	2.10	0.67
1:C:5016:GLU:CB	1:C:5018:CYS:HB2	2.25	0.67
1:D:685:GLY:CA	1:D:712:TYR:O	2.43	0.67
1:D:686:TRP:N	1:D:712:TYR:O	2.28	0.67
1:D:2586:VAL:CA	1:D:2587:TYR:CB	2.71	0.67
1:D:3717:ASP:O	1:D:3719:ASP:N	2.27	0.67
1:D:5016:GLU:CB	1:D:5018:CYS:HB2	2.25	0.67
1:A:4251:ILE:C	1:A:4553:ASN:ND2	2.54	0.66
1:B:4181:ILE:HD11	1:B:4195:PHE:H	1.57	0.66
1:B:4696:ASP:HA	1:B:4697:VAL:CB	2.22	0.66
1:C:4971:THR:HG23	1:C:4974:GLY:CA	2.17	0.66
1:D:39:ALA:CB	1:D:47:CYS:CB	2.67	0.66
1:D:4556:SER:OG	1:D:4557:ARG:N	2.26	0.66
1:A:2506:LEU:O	1:A:2510:TYR:N	2.26	0.66
1:A:4222:VAL:CB	1:A:4950:VAL:CG2	2.73	0.66
1:A:4685:GLY:C	1:A:4689:THR:H	2.03	0.66
1:A:5008:SER:O	1:A:5011:TRP:N	2.29	0.66
1:B:4251:ILE:C	1:B:4553:ASN:ND2	2.54	0.66
1:B:4924:VAL:O	1:B:4928:LEU:HD23	1.95	0.66
1:B:4934:GLY:HA3	1:C:4937:ILE:HD11	1.33	0.66
1:B:4935:LEU:N	1:B:4935:LEU:HD23	2.10	0.66
1:C:148:TRP:HA	1:C:149:THR:CB	2.25	0.66
1:C:243:ARG:O	1:C:300:VAL:HA	1.96	0.66
1:C:4192:ARG:HG3	1:C:4192:ARG:O	1.95	0.66
1:C:4966:ASP:C	1:C:4968:PHE:N	2.53	0.66
1:C:5016:GLU:CB	1:C:5017:ARG:C	2.68	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:GLY:O	1:D:44:ASN:CB	2.44	0.66
1:D:1117:ALA:HA	1:D:1134:LEU:CB	2.25	0.66
1:D:3419:ASN:O	1:D:3423:TRP:CB	2.44	0.66
1:D:3984:ARG:HD2	1:D:3984:ARG:O	1.95	0.66
1:D:4180:ARG:CA	1:D:4181:ILE:HG12	2.24	0.66
1:D:4192:ARG:NH1	1:D:5028:PHE:CD2	2.63	0.66
1:D:4192:ARG:O	1:D:4192:ARG:HG3	1.95	0.66
1:D:4924:VAL:O	1:D:4928:LEU:HD23	1.95	0.66
1:A:685:GLY:CA	1:A:712:TYR:O	2.43	0.66
1:A:3419:ASN:O	1:A:3423:TRP:CB	2.44	0.66
1:A:4195:PHE:CD2	1:A:4991:PHE:CD2	2.82	0.66
1:B:1133:HIS:H	1:B:1135:GLY:N	1.92	0.66
1:D:787:VAL:O	1:D:1630:CYS:N	2.26	0.66
1:D:4182:GLU:OE2	1:D:4988:TYR:CB	2.43	0.66
1:A:4944:ARG:HD2	1:A:4944:ARG:C	2.20	0.66
1:B:1117:ALA:HA	1:B:1134:LEU:CB	2.25	0.66
1:B:4930:ALA:CB	1:C:4936:ILE:HD12	2.25	0.66
1:C:43:GLY:O	1:C:44:ASN:CB	2.44	0.66
1:C:404:ILE:O	1:C:408:ALA:CB	2.43	0.66
1:C:1821:ASP:C	1:C:1823:GLY:H	2.03	0.66
1:C:4768:LEU:HD13	1:C:4770:SER:N	2.07	0.66
1:D:308:HIS:O	1:D:312:THR:HA	1.96	0.66
1:D:2161:GLN:NE2	1:D:2178:MET:CB	2.56	0.66
1:D:4180:ARG:HA	1:D:4181:ILE:HB	1.77	0.66
1:D:5016:GLU:CB	1:D:5017:ARG:C	2.68	0.66
1:A:404:ILE:O	1:A:408:ALA:CB	2.44	0.66
1:B:2211:MET:O	1:B:2215:LEU:N	2.27	0.66
1:B:3419:ASN:O	1:B:3423:TRP:CB	2.44	0.66
1:B:4696:ASP:CA	1:B:4697:VAL:CG2	2.52	0.66
1:B:4784:PHE:O	1:B:4789:PHE:CE2	2.47	0.66
1:B:5016:GLU:CB	1:B:5017:ARG:C	2.68	0.66
1:C:1601:MET:CB	1:C:1602:PRO:HA	2.25	0.66
1:C:4834:GLY:CA	1:C:4837:LEU:HB3	2.26	0.66
1:D:148:TRP:HA	1:D:149:THR:CB	2.25	0.66
1:D:404:ILE:O	1:D:408:ALA:CB	2.43	0.66
1:D:1601:MET:CB	1:D:1602:PRO:HA	2.25	0.66
1:D:4183:ILE:CG2	1:D:4190:ILE:C	2.68	0.66
1:D:4696:ASP:CB	1:D:4697:VAL:HG13	2.25	0.66
1:D:4834:GLY:CA	1:D:4837:LEU:HB3	2.26	0.66
1:A:509:GLU:C	1:A:511:ALA:N	2.52	0.66
1:B:644:ILE:O	1:B:781:VAL:N	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2449:GLU:O	1:B:2450:ALA:CB	2.36	0.66
1:B:2506:LEU:O	1:B:2510:TYR:N	2.26	0.66
1:B:4180:ARG:CA	1:B:4181:ILE:HG12	2.24	0.66
1:B:4556:SER:OG	1:B:4557:ARG:N	2.26	0.66
1:B:4685:GLY:C	1:B:4689:THR:H	2.03	0.66
1:B:4834:GLY:CA	1:B:4837:LEU:HB3	2.26	0.66
1:B:5008:SER:O	1:B:5011:TRP:N	2.29	0.66
1:C:2145:SER:C	1:C:2147:SER:H	2.03	0.66
1:C:4251:ILE:C	1:C:4553:ASN:ND2	2.54	0.66
1:C:4685:GLY:C	1:C:4689:THR:H	2.03	0.66
1:D:4235:VAL:CB	1:D:5019:TRP:HZ3	2.04	0.66
1:A:3945:GLU:O	1:A:3947:GLY:N	2.29	0.66
1:B:404:ILE:O	1:B:408:ALA:CB	2.44	0.66
1:B:686:TRP:N	1:B:712:TYR:O	2.28	0.66
1:C:686:TRP:N	1:C:712:TYR:O	2.28	0.66
1:C:4696:ASP:HA	1:C:4697:VAL:CB	2.22	0.66
1:C:5008:SER:O	1:C:5011:TRP:N	2.29	0.66
1:D:2211:MET:O	1:D:2215:LEU:N	2.27	0.66
1:D:2495:VAL:CB	1:D:2496:PRO:HD3	2.25	0.66
1:D:4180:ARG:N	1:D:4181:ILE:HD13	2.10	0.66
1:D:4251:ILE:C	1:D:4553:ASN:ND2	2.54	0.66
1:A:2211:MET:O	1:A:2215:LEU:N	2.27	0.66
1:A:4192:ARG:NH1	1:A:5028:PHE:HD2	1.94	0.66
1:B:509:GLU:C	1:B:511:ALA:N	2.52	0.66
1:B:4182:GLU:OE2	1:B:4988:TYR:CB	2.43	0.66
1:B:4183:ILE:CG2	1:B:4190:ILE:C	2.68	0.66
1:B:4251:ILE:C	1:B:4553:ASN:HD22	2.03	0.66
1:C:308:HIS:O	1:C:312:THR:HA	1.96	0.66
1:C:4696:ASP:CA	1:C:4697:VAL:CG2	2.52	0.66
1:C:4924:VAL:O	1:C:4928:LEU:HD23	1.95	0.66
1:D:1122:TYR:HE1	1:D:1133:HIS:O	1.72	0.66
1:D:3108:GLU:O	1:D:3112:LEU:N	2.28	0.66
1:D:3758:MET:O	1:D:3759:GLU:C	2.38	0.66
1:D:4784:PHE:O	1:D:4789:PHE:CE2	2.47	0.66
1:A:43:GLY:O	1:A:44:ASN:CB	2.44	0.66
1:A:1117:ALA:HA	1:A:1134:LEU:CB	2.25	0.66
1:B:1708:ARG:HG2	1:B:1712:TYR:HE2	1.59	0.66
1:C:67:PHE:O	1:C:110:ARG:O	2.13	0.66
1:C:77:ALA:HB2	1:D:3935:TRP:CD1	2.30	0.66
1:C:2495:VAL:CB	1:C:2496:PRO:HD3	2.25	0.66
1:D:243:ARG:O	1:D:300:VAL:HA	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2767:ALA:CB	1:D:2855:TYR:O	2.30	0.66
1:D:4945:ASP:O	1:D:4948:GLU:HG3	1.96	0.66
1:D:5008:SER:O	1:D:5011:TRP:N	2.29	0.66
1:A:404:ILE:CB	1:A:478:PHE:CE1	2.78	0.66
1:A:596:ASN:C	1:A:598:LYS:H	2.01	0.66
1:A:644:ILE:O	1:A:781:VAL:N	2.24	0.66
1:A:4924:VAL:O	1:A:4928:LEU:HD23	1.95	0.66
1:B:243:ARG:O	1:B:300:VAL:HA	1.96	0.66
1:B:2145:SER:C	1:B:2147:SER:H	2.03	0.66
1:C:3984:ARG:HD2	1:C:3984:ARG:O	1.95	0.66
1:D:4251:ILE:C	1:D:4553:ASN:HD22	2.03	0.66
1:D:4687:TYR:CA	1:D:4692:PRO:HD3	2.26	0.66
1:A:4696:ASP:CB	1:A:4697:VAL:HG13	2.25	0.65
1:B:1081:TYR:OH	1:B:1235:THR:N	2.21	0.65
1:B:3984:ARG:HD2	1:B:3984:ARG:O	1.95	0.65
1:B:5016:GLU:CB	1:B:5018:CYS:HB2	2.25	0.65
1:C:39:ALA:CB	1:C:47:CYS:CB	2.67	0.65
1:C:2240:CYS:O	1:C:2242:ILE:N	2.30	0.65
1:D:67:PHE:O	1:D:110:ARG:O	2.13	0.65
1:D:2145:SER:C	1:D:2147:SER:H	2.03	0.65
1:A:66:CYS:CB	1:A:111:HIS:HA	2.26	0.65
1:A:1601:MET:CB	1:A:1602:PRO:HA	2.25	0.65
1:A:4181:ILE:O	1:A:4182:GLU:CB	2.40	0.65
1:A:4251:ILE:C	1:A:4553:ASN:HD22	2.03	0.65
1:A:4930:ALA:HB1	1:B:4936:ILE:CG2	2.14	0.65
1:B:1244:GLN:O	1:B:1604:SER:HA	1.96	0.65
1:B:2102:VAL:HA	1:B:2105:TRP:HD1	1.57	0.65
1:C:1244:GLN:O	1:C:1604:SER:HA	1.96	0.65
1:C:1291:LEU:C	1:C:1600:LEU:CB	2.70	0.65
1:C:3108:GLU:O	1:C:3112:LEU:N	2.28	0.65
1:C:4653:VAL:C	1:C:4657:CYS:HG	1.99	0.65
1:D:788:LYS:CB	1:D:1629:GLN:CA	2.74	0.65
1:D:1244:GLN:O	1:D:1604:SER:HA	1.96	0.65
1:D:1290:ARG:CA	1:D:1551:ALA:HB2	2.19	0.65
1:D:3945:GLU:O	1:D:3947:GLY:N	2.29	0.65
1:D:4243:PHE:CD2	1:D:4671:PHE:CZ	2.51	0.65
1:D:4995:LEU:HD12	1:D:5011:TRP:CZ3	2.25	0.65
1:A:176:SER:HA	1:A:177:GLU:CB	2.27	0.65
1:A:308:HIS:O	1:A:312:THR:HA	1.96	0.65
1:A:1291:LEU:C	1:A:1600:LEU:CB	2.70	0.65
1:A:3986:TRP:N	1:A:3987:ASP:CB	2.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4927:ILE:O	1:A:4931:ILE:HD13	1.96	0.65
1:B:404:ILE:CB	1:B:478:PHE:CE1	2.78	0.65
1:B:3061:ALA:O	1:B:3064:VAL:C	2.37	0.65
1:B:4192:ARG:NH1	1:B:5028:PHE:HD2	1.94	0.65
1:B:4687:TYR:CA	1:B:4692:PRO:HD3	2.26	0.65
1:B:5031:GLN:C	1:B:5032:TYR:HD1	2.05	0.65
1:C:788:LYS:CB	1:C:1629:GLN:CA	2.74	0.65
1:C:1087:ARG:HA	1:C:1154:ASP:HA	1.79	0.65
1:C:2449:GLU:O	1:C:2450:ALA:CB	2.36	0.65
1:C:2506:LEU:O	1:C:2510:TYR:N	2.26	0.65
1:C:3986:TRP:N	1:C:3987:ASP:CB	2.60	0.65
1:A:788:LYS:CB	1:A:1629:GLN:CA	2.74	0.65
1:A:4696:ASP:CA	1:A:4697:VAL:CG1	2.71	0.65
1:B:308:HIS:O	1:B:312:THR:HA	1.96	0.65
1:B:4653:VAL:C	1:B:4657:CYS:HG	2.00	0.65
1:C:4857:ASN:C	1:C:4858:PHE:HD1	2.05	0.65
1:D:1087:ARG:HA	1:D:1154:ASP:HA	1.79	0.65
1:D:4966:ASP:C	1:D:4968:PHE:N	2.53	0.65
1:A:1708:ARG:HG2	1:A:1712:TYR:HE2	1.59	0.65
1:B:4195:PHE:CZ	1:B:4991:PHE:CB	2.65	0.65
1:B:4934:GLY:O	1:B:4938:ASP:N	2.24	0.65
1:C:3419:ASN:O	1:C:3423:TRP:CB	2.44	0.65
1:A:2240:CYS:O	1:A:2242:ILE:N	2.30	0.65
1:A:3757:GLU:CB	1:A:4719:PHE:CE2	2.80	0.65
1:B:1244:GLN:C	1:B:1604:SER:HA	2.22	0.65
1:B:4192:ARG:HG3	1:B:4192:ARG:O	1.95	0.65
1:B:4927:ILE:HD11	1:B:4928:LEU:HD22	1.79	0.65
1:C:509:GLU:C	1:C:511:ALA:N	2.52	0.65
1:C:4921:PHE:O	1:C:4925:ILE:HD13	1.94	0.65
1:D:509:GLU:C	1:D:511:ALA:N	2.52	0.65
1:D:4192:ARG:NH1	1:D:5028:PHE:HD2	1.94	0.65
1:A:38:ALA:C	1:A:47:CYS:CB	2.70	0.65
1:A:1272:LEU:HA	1:A:1273:ALA:HB3	1.78	0.65
1:B:39:ALA:HA	1:B:47:CYS:HA	1.78	0.65
1:B:5010:VAL:HG23	1:B:5011:TRP:N	2.10	0.65
1:C:721:LEU:CB	1:C:728:ARG:C	2.70	0.65
1:C:2211:MET:O	1:C:2215:LEU:N	2.27	0.65
1:C:4687:TYR:CA	1:C:4692:PRO:HD3	2.26	0.65
1:C:4705:VAL:O	1:C:4707:ASN:N	2.30	0.65
1:D:1291:LEU:C	1:D:1600:LEU:CB	2.70	0.65
1:D:3986:TRP:N	1:D:3987:ASP:CB	2.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:ALA:CB	1:A:47:CYS:CB	2.67	0.65
1:A:1244:GLN:O	1:A:1604:SER:HA	1.96	0.65
1:A:4705:VAL:O	1:A:4707:ASN:N	2.30	0.65
1:B:3108:GLU:O	1:B:3112:LEU:N	2.28	0.65
1:B:4930:ALA:HB1	1:C:4936:ILE:CD1	2.26	0.65
1:C:4696:ASP:CA	1:C:4697:VAL:CG1	2.71	0.65
1:D:2506:LEU:O	1:D:2510:TYR:N	2.26	0.65
1:A:1087:ARG:HA	1:A:1154:ASP:HA	1.79	0.65
1:A:1244:GLN:C	1:A:1604:SER:HA	2.22	0.65
1:A:4937:ILE:HD13	1:D:4934:GLY:CA	1.98	0.65
1:B:788:LYS:CB	1:B:1629:GLN:CA	2.74	0.65
1:C:4182:GLU:OE2	1:C:4988:TYR:CB	2.43	0.65
1:D:38:ALA:C	1:D:47:CYS:CB	2.70	0.65
1:D:66:CYS:CB	1:D:111:HIS:HA	2.26	0.65
1:D:176:SER:HA	1:D:177:GLU:CB	2.27	0.65
1:A:243:ARG:O	1:A:300:VAL:HA	1.96	0.65
1:A:4192:ARG:HG3	1:A:4192:ARG:O	1.95	0.65
1:A:5016:GLU:CB	1:A:5018:CYS:HB2	2.25	0.65
1:B:43:GLY:O	1:B:44:ASN:CB	2.44	0.65
1:B:66:CYS:CB	1:B:111:HIS:HA	2.26	0.65
1:B:1124:PHE:HE2	1:B:1162:PHE:CD2	2.15	0.65
1:B:1291:LEU:C	1:B:1600:LEU:CB	2.70	0.65
1:B:1821:ASP:C	1:B:1823:GLY:H	2.03	0.65
1:B:4857:ASN:C	1:B:4858:PHE:HD1	2.05	0.65
1:C:38:ALA:C	1:C:47:CYS:CB	2.70	0.65
1:C:66:CYS:CB	1:C:111:HIS:HA	2.26	0.65
1:C:1244:GLN:C	1:C:1604:SER:HA	2.22	0.65
1:C:3785:ALA:O	1:C:3786:CYS:C	2.40	0.65
1:C:4233:LEU:O	1:C:4236:SER:OG	2.15	0.65
1:D:39:ALA:HA	1:D:47:CYS:HA	1.78	0.65
1:D:1124:PHE:HE2	1:D:1162:PHE:CD2	2.15	0.65
1:D:2240:CYS:O	1:D:2242:ILE:N	2.30	0.65
1:D:3757:GLU:CB	1:D:4719:PHE:CE2	2.80	0.65
1:A:721:LEU:CB	1:A:728:ARG:C	2.70	0.64
1:A:1749:PRO:C	1:A:1751:GLY:N	2.53	0.64
1:A:4193:ILE:HG22	1:A:4194:TYR:N	2.12	0.64
1:A:4927:ILE:HD11	1:A:4928:LEU:HD22	1.79	0.64
1:B:38:ALA:C	1:B:47:CYS:CB	2.70	0.64
1:B:3986:TRP:N	1:B:3987:ASP:CB	2.60	0.64
1:B:4222:VAL:CB	1:B:4950:VAL:CG2	2.74	0.64
1:C:1203:ASN:CB	1:C:1204:LEU:CB	2.76	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1290:ARG:CA	1:C:1551:ALA:HB2	2.19	0.64
1:C:1290:ARG:O	1:C:1551:ALA:HB1	1.97	0.64
1:C:4673:ARG:HH11	1:C:4673:ARG:CB	2.04	0.64
1:D:4857:ASN:C	1:D:4858:PHE:HD1	2.05	0.64
1:A:686:TRP:N	1:A:712:TYR:O	2.28	0.64
1:A:790:ARG:N	1:A:1627:ALA:CB	2.60	0.64
1:A:4857:ASN:C	1:A:4858:PHE:HD1	2.05	0.64
1:B:176:SER:HA	1:B:177:GLU:CB	2.27	0.64
1:B:1203:ASN:CB	1:B:1204:LEU:CB	2.76	0.64
1:B:2240:CYS:O	1:B:2242:ILE:N	2.30	0.64
1:C:39:ALA:HA	1:C:47:CYS:HA	1.78	0.64
1:C:790:ARG:N	1:C:1627:ALA:CB	2.60	0.64
1:C:1124:PHE:HE2	1:C:1162:PHE:CD2	2.15	0.64
1:C:4181:ILE:O	1:C:4182:GLU:CB	2.40	0.64
1:A:4653:VAL:C	1:A:4657:CYS:HG	2.00	0.64
1:A:4834:GLY:CA	1:A:4837:LEU:HB3	2.26	0.64
1:B:41:GLY:O	1:B:44:ASN:O	2.15	0.64
1:B:721:LEU:CB	1:B:728:ARG:C	2.70	0.64
1:B:4180:ARG:HA	1:B:4181:ILE:CG1	2.28	0.64
1:B:4197:ILE:HD11	1:B:4990:PHE:CG	2.33	0.64
1:C:3757:GLU:CB	1:C:4719:PHE:CE2	2.80	0.64
1:C:4173:TYR:O	1:C:4176:PRO:HD2	1.97	0.64
1:D:4927:ILE:O	1:D:4931:ILE:HD13	1.96	0.64
1:A:2592:GLY:H	1:A:2595:LEU:N	1.92	0.64
1:A:5017:ARG:CD	1:A:5019:TRP:HZ2	2.11	0.64
1:A:5031:GLN:C	1:A:5032:TYR:HD1	2.05	0.64
1:C:4197:ILE:HD11	1:C:4990:PHE:CG	2.33	0.64
1:A:41:GLY:O	1:A:44:ASN:O	2.15	0.64
1:A:4556:SER:OG	1:A:4557:ARG:N	2.26	0.64
1:A:4687:TYR:CA	1:A:4692:PRO:HD3	2.26	0.64
1:A:4966:ASP:C	1:A:4968:PHE:N	2.53	0.64
1:B:1272:LEU:HA	1:B:1273:ALA:HB3	1.78	0.64
1:B:1721:GLU:O	1:B:1722:SER:C	2.40	0.64
1:B:3757:GLU:CB	1:B:4719:PHE:CE2	2.80	0.64
1:B:4233:LEU:O	1:B:4236:SER:OG	2.15	0.64
1:C:176:SER:HA	1:C:177:GLU:CB	2.27	0.64
1:C:4180:ARG:HA	1:C:4181:ILE:CG1	2.28	0.64
1:D:721:LEU:CB	1:D:728:ARG:C	2.70	0.64
1:D:1203:ASN:CB	1:D:1204:LEU:CB	2.75	0.64
1:D:1708:ARG:HG2	1:D:1712:TYR:HE2	1.59	0.64
1:D:1721:GLU:O	1:D:1722:SER:C	2.40	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4696:ASP:C	1:D:4697:VAL:CG2	2.71	0.64
1:A:1124:PHE:HE2	1:A:1162:PHE:CD2	2.15	0.64
1:A:4088:ILE:CB	1:A:4093:PHE:HB2	2.28	0.64
1:B:4239:GLU:O	1:B:4242:ILE:N	2.31	0.64
1:C:1721:GLU:O	1:C:1722:SER:C	2.40	0.64
1:C:4192:ARG:NH1	1:C:5028:PHE:HD2	1.94	0.64
1:C:5010:VAL:HG23	1:C:5011:TRP:N	2.10	0.64
1:D:1209:SER:O	1:D:1210:SER:C	2.39	0.64
1:A:1203:ASN:CB	1:A:1204:LEU:CB	2.76	0.64
1:A:1290:ARG:CA	1:A:1551:ALA:HB2	2.19	0.64
1:A:3166:TYR:O	1:A:3169:LEU:CB	2.46	0.64
1:A:4036:VAL:O	1:A:4153:HIS:CD2	2.51	0.64
1:A:4577:LEU:HD23	1:A:4577:LEU:O	1.98	0.64
1:B:2342:ASN:CB	1:B:2343:GLY:HA2	2.28	0.64
1:B:2767:ALA:CB	1:B:2855:TYR:O	2.30	0.64
1:B:4927:ILE:O	1:B:4931:ILE:HD13	1.96	0.64
1:B:4935:LEU:HD23	1:C:4940:PHE:CE2	2.28	0.64
1:B:5017:ARG:CD	1:B:5019:TRP:HZ2	2.11	0.64
1:C:77:ALA:CB	1:D:3935:TRP:CD1	2.75	0.64
1:C:1272:LEU:HA	1:C:1273:ALA:HB3	1.79	0.64
1:D:2342:ASN:CB	1:D:2343:GLY:HA2	2.28	0.64
1:D:4173:TYR:O	1:D:4176:PRO:HD2	1.97	0.64
1:D:4193:ILE:HG22	1:D:4194:TYR:N	2.12	0.64
1:D:4239:GLU:O	1:D:4242:ILE:N	2.31	0.64
1:D:4577:LEU:O	1:D:4577:LEU:HD23	1.98	0.64
1:D:4705:VAL:O	1:D:4707:ASN:N	2.30	0.64
1:A:3785:ALA:O	1:A:3786:CYS:C	2.40	0.64
1:A:4180:ARG:HA	1:A:4181:ILE:CB	2.28	0.64
1:A:4180:ARG:N	1:A:4181:ILE:HD13	2.10	0.64
1:B:790:ARG:N	1:B:1627:ALA:CB	2.60	0.64
1:B:1087:ARG:HA	1:B:1154:ASP:HA	1.79	0.64
1:B:1290:ARG:O	1:B:1551:ALA:HB1	1.97	0.64
1:B:4705:VAL:O	1:B:4707:ASN:N	2.30	0.64
1:C:3060:ASP:O	1:C:3064:VAL:C	2.41	0.64
1:C:4885:PHE:O	1:C:4889:VAL:HG13	1.98	0.64
1:C:5031:GLN:C	1:C:5032:TYR:HD1	2.05	0.64
1:D:1707:LEU:O	1:D:1711:TYR:HD1	1.81	0.64
1:D:3166:TYR:O	1:D:3169:LEU:CB	2.46	0.64
1:D:4180:ARG:HA	1:D:4181:ILE:CG1	2.28	0.64
1:D:4197:ILE:HD11	1:D:4990:PHE:CG	2.33	0.64
1:D:4885:PHE:O	1:D:4889:VAL:HG13	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4820:VAL:O	1:A:4824:ARG:N	2.30	0.64
1:B:3166:TYR:O	1:B:3169:LEU:CB	2.46	0.64
1:B:3785:ALA:O	1:B:3786:CYS:C	2.40	0.64
1:C:3166:TYR:O	1:C:3169:LEU:CB	2.46	0.64
1:C:4927:ILE:HD11	1:C:4928:LEU:HD22	1.79	0.64
1:D:665:GLU:O	1:D:792:LEU:N	2.31	0.64
1:D:2274:ASP:CA	1:D:2277:ALA:H	1.91	0.64
1:D:4696:ASP:CA	1:D:4697:VAL:CG1	2.71	0.64
1:A:2342:ASN:CB	1:A:2343:GLY:HA2	2.28	0.64
1:A:4173:TYR:O	1:A:4176:PRO:HD2	1.97	0.64
1:A:4180:ARG:HA	1:A:4181:ILE:CG1	2.28	0.64
1:B:665:GLU:O	1:B:792:LEU:N	2.31	0.64
1:B:4036:VAL:O	1:B:4153:HIS:CD2	2.51	0.64
1:B:4173:TYR:O	1:B:4176:PRO:HD2	1.97	0.64
1:B:4820:VAL:O	1:B:4824:ARG:N	2.30	0.64
1:B:4966:ASP:C	1:B:4968:PHE:N	2.53	0.64
1:C:2342:ASN:CB	1:C:2343:GLY:HA2	2.28	0.64
1:C:4193:ILE:HG22	1:C:4194:TYR:N	2.12	0.64
1:D:41:GLY:O	1:D:44:ASN:O	2.15	0.64
1:D:1244:GLN:C	1:D:1604:SER:HA	2.22	0.64
1:D:1272:LEU:HA	1:D:1273:ALA:HB3	1.78	0.64
1:D:3933:PHE:CE1	1:D:3951:PHE:HD2	2.02	0.64
1:D:4180:ARG:HA	1:D:4181:ILE:CB	2.28	0.64
1:A:3060:ASP:O	1:A:3064:VAL:C	2.41	0.63
1:A:5017:ARG:HD3	1:A:5019:TRP:HZ2	1.64	0.63
1:B:1719:HIS:N	1:B:1720:LEU:HA	2.13	0.63
1:B:4918:ILE:HG23	1:B:4919:THR:N	2.13	0.63
1:C:73:LEU:H	1:C:106:ALA:H	1.46	0.63
1:C:1719:HIS:N	1:C:1720:LEU:HA	2.13	0.63
1:D:1130:GLN:HA	1:D:1137:GLU:O	1.98	0.63
1:D:5031:GLN:C	1:D:5032:TYR:HD1	2.05	0.63
1:A:39:ALA:HA	1:A:47:CYS:HA	1.78	0.63
1:A:2501:SER:O	1:A:2505:PHE:N	2.28	0.63
1:A:4971:THR:HG23	1:A:4974:GLY:CA	2.17	0.63
1:C:41:GLY:O	1:C:44:ASN:O	2.15	0.63
1:C:1707:LEU:O	1:C:1711:TYR:HD1	1.81	0.63
1:C:3378:GLN:O	1:C:3381:LEU:N	2.32	0.63
1:C:4927:ILE:O	1:C:4931:ILE:HD13	1.96	0.63
1:D:4696:ASP:CA	1:D:4697:VAL:CG2	2.52	0.63
1:D:5017:ARG:CD	1:D:5019:TRP:HZ2	2.11	0.63
1:A:1721:GLU:O	1:A:1722:SER:C	2.40	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1821:ASP:C	1:A:1823:GLY:H	2.03	0.63
1:A:2121:PHE:CE2	1:A:3702:VAL:CB	2.75	0.63
1:A:4968:PHE:HD2	1:A:4978:HIS:CB	2.11	0.63
1:B:4088:ILE:CB	1:B:4093:PHE:HB2	2.28	0.63
1:B:4180:ARG:HA	1:B:4181:ILE:CB	2.28	0.63
1:C:118:LEU:CA	1:C:137:LEU:HA	2.25	0.63
1:D:1749:PRO:C	1:D:1751:GLY:N	2.53	0.63
1:B:498:THR:C	1:B:500:ALA:HA	2.24	0.63
1:B:4885:PHE:O	1:B:4889:VAL:HG13	1.98	0.63
1:C:498:THR:C	1:C:500:ALA:HA	2.24	0.63
1:C:4985:LEU:O	1:C:4988:TYR:N	2.32	0.63
1:D:73:LEU:H	1:D:106:ALA:H	1.46	0.63
1:D:1719:HIS:N	1:D:1720:LEU:HA	2.13	0.63
1:D:4088:ILE:CB	1:D:4093:PHE:HB2	2.28	0.63
1:D:4927:ILE:HD11	1:D:4928:LEU:HD22	1.78	0.63
1:A:1719:HIS:N	1:A:1720:LEU:HA	2.13	0.63
1:B:4577:LEU:O	1:B:4577:LEU:HD23	1.98	0.63
1:B:4656:LEU:HD13	1:B:4657:CYS:N	2.14	0.63
1:B:4783:ILE:HD11	1:B:4789:PHE:CD1	2.33	0.63
1:C:4780:PHE:O	1:C:4783:ILE:HG23	1.99	0.63
1:D:25:SER:O	1:D:33:LEU:O	2.17	0.63
1:D:2777:TYR:H	1:D:2854:GLY:HA2	1.64	0.63
1:D:4222:VAL:CB	1:D:4950:VAL:CG2	2.76	0.63
1:D:4783:ILE:HD11	1:D:4789:PHE:CD1	2.33	0.63
1:A:4918:ILE:HG23	1:A:4919:THR:N	2.13	0.63
1:B:4780:PHE:O	1:B:4783:ILE:HG23	1.99	0.63
1:C:4243:PHE:O	1:C:4243:PHE:HD1	1.82	0.63
1:D:1290:ARG:O	1:D:1551:ALA:HB1	1.97	0.63
1:D:3785:ALA:O	1:D:3786:CYS:C	2.40	0.63
1:D:4036:VAL:O	1:D:4153:HIS:CD2	2.51	0.63
1:D:4985:LEU:O	1:D:4988:TYR:N	2.32	0.63
1:A:2145:SER:C	1:A:2147:SER:H	2.03	0.63
1:A:2449:GLU:O	1:A:2450:ALA:CB	2.36	0.63
1:A:4728:HIS:O	1:A:4737:ILE:CD1	2.46	0.63
1:C:3061:ALA:O	1:C:3064:VAL:C	2.37	0.63
1:C:4036:VAL:O	1:C:4153:HIS:CD2	2.51	0.63
1:C:5018:CYS:C	1:C:5019:TRP:CD1	2.77	0.63
1:D:790:ARG:N	1:D:1627:ALA:CB	2.60	0.63
1:D:3060:ASP:O	1:D:3064:VAL:C	2.41	0.63
1:A:1290:ARG:O	1:A:1551:ALA:HB1	1.97	0.63
1:A:1707:LEU:O	1:A:1711:TYR:HD1	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4970:THR:O	1:A:4970:THR:HG22	1.98	0.63
1:B:4181:ILE:O	1:B:4182:GLU:CB	2.40	0.63
1:C:665:GLU:O	1:C:792:LEU:N	2.31	0.63
1:C:4180:ARG:HA	1:C:4181:ILE:CB	2.28	0.63
1:C:4239:GLU:O	1:C:4242:ILE:N	2.31	0.63
1:D:596:ASN:C	1:D:598:LYS:H	2.01	0.63
1:A:3378:GLN:O	1:A:3381:LEU:N	2.32	0.63
1:A:3708:THR:C	1:A:3710:LEU:HA	2.24	0.63
1:A:4158:PRO:O	1:A:4159:ARG:C	2.40	0.63
1:A:4239:GLU:O	1:A:4242:ILE:N	2.31	0.63
1:B:1130:GLN:HA	1:B:1137:GLU:O	1.98	0.63
1:B:2546:MET:O	1:B:2550:LEU:N	2.31	0.63
1:B:4217:PHE:CB	1:B:4237:PHE:CE2	2.82	0.63
1:C:3986:TRP:H	1:C:3987:ASP:CB	2.12	0.63
1:C:4820:VAL:O	1:C:4824:ARG:N	2.30	0.63
1:C:5017:ARG:CD	1:C:5019:TRP:HZ2	2.11	0.63
1:D:460:GLN:C	1:D:462:GLU:N	2.34	0.63
1:D:2546:MET:O	1:D:2550:LEU:N	2.32	0.63
1:D:3378:GLN:O	1:D:3381:LEU:N	2.32	0.63
1:D:4656:LEU:HD13	1:D:4657:CYS:N	2.14	0.63
1:D:4918:ILE:HG23	1:D:4919:THR:N	2.13	0.63
1:A:701:GLY:H	1:A:1645:ASN:C	2.07	0.62
1:A:1124:PHE:CA	1:A:1131:ARG:CA	2.52	0.62
1:A:1209:SER:O	1:A:1210:SER:C	2.39	0.62
1:A:4197:ILE:HD11	1:A:4990:PHE:CG	2.34	0.62
1:A:4656:LEU:HD22	1:A:4656:LEU:C	2.23	0.62
1:B:1749:PRO:C	1:B:1751:GLY:N	2.53	0.62
1:B:3060:ASP:O	1:B:3064:VAL:C	2.41	0.62
1:B:4193:ILE:HG22	1:B:4194:TYR:N	2.12	0.62
1:C:2677:LYS:O	1:C:2681:GLY:N	2.30	0.62
1:C:4088:ILE:CB	1:C:4093:PHE:HB2	2.28	0.62
1:C:4918:ILE:HG23	1:C:4919:THR:N	2.13	0.62
1:D:790:ARG:N	1:D:1627:ALA:HB1	2.14	0.62
1:D:4217:PHE:CB	1:D:4237:PHE:CE2	2.82	0.62
1:D:4235:VAL:HG22	1:D:5019:TRP:HZ3	1.52	0.62
1:D:4970:THR:O	1:D:4970:THR:HG22	1.98	0.62
1:A:2677:LYS:O	1:A:2681:GLY:N	2.30	0.62
1:A:4197:ILE:HD11	1:A:4990:PHE:CE2	2.33	0.62
1:A:4885:PHE:O	1:A:4889:VAL:HG13	1.98	0.62
1:A:4927:ILE:HG13	1:A:4928:LEU:HD23	1.81	0.62
1:B:701:GLY:H	1:B:1645:ASN:C	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:790:ARG:N	1:B:1627:ALA:HB1	2.14	0.62
1:B:3766:GLN:HA	1:B:3769:ARG:NH2	2.15	0.62
1:B:4968:PHE:HD2	1:B:4978:HIS:CB	2.11	0.62
1:B:4970:THR:O	1:B:4970:THR:HG22	1.98	0.62
1:B:5017:ARG:HD3	1:B:5019:TRP:HZ2	1.64	0.62
1:C:4784:PHE:O	1:C:4789:PHE:CE2	2.47	0.62
1:A:4233:LEU:O	1:A:4236:SER:OG	2.15	0.62
1:A:4783:ILE:HD11	1:A:4789:PHE:CD1	2.33	0.62
1:A:4784:PHE:O	1:A:4789:PHE:CE2	2.47	0.62
1:B:3708:THR:C	1:B:3710:LEU:HA	2.24	0.62
1:B:3945:GLU:O	1:B:3947:GLY:N	2.29	0.62
1:B:3986:TRP:H	1:B:3987:ASP:CB	2.12	0.62
1:C:4217:PHE:CB	1:C:4237:PHE:CE2	2.82	0.62
1:C:4930:ALA:C	1:D:4936:ILE:HD13	2.24	0.62
1:C:5019:TRP:CD1	1:C:5019:TRP:N	2.67	0.62
1:D:2501:SER:O	1:D:2505:PHE:N	2.28	0.62
1:D:3708:THR:C	1:D:3710:LEU:HA	2.24	0.62
1:D:3986:TRP:H	1:D:3987:ASP:CB	2.11	0.62
1:D:5017:ARG:HD3	1:D:5019:TRP:HZ2	1.64	0.62
1:A:483:MET:O	1:A:485:SER:N	2.33	0.62
1:B:245:VAL:C	1:B:247:TYR:H	2.05	0.62
1:B:1707:LEU:O	1:B:1711:TYR:HD1	1.81	0.62
1:B:2777:TYR:H	1:B:2854:GLY:HA2	1.64	0.62
1:B:4158:PRO:O	1:B:4159:ARG:C	2.40	0.62
1:C:1081:TYR:OH	1:C:1235:THR:N	2.21	0.62
1:C:4108:ILE:HD12	1:C:4109:GLN:N	2.15	0.62
1:C:4783:ILE:HD11	1:C:4789:PHE:CD1	2.33	0.62
1:D:701:GLY:H	1:D:1645:ASN:C	2.07	0.62
1:D:4183:ILE:CG2	1:D:4191:GLU:C	2.54	0.62
1:D:4559:PHE:HD1	1:D:4560:TYR:CD1	1.97	0.62
1:A:665:GLU:O	1:A:792:LEU:N	2.31	0.62
1:A:2588:ARG:HA	1:A:2589:LEU:CB	2.29	0.62
1:A:4217:PHE:CB	1:A:4237:PHE:CE2	2.82	0.62
1:A:4930:ALA:C	1:B:4936:ILE:HD13	2.24	0.62
1:B:38:ALA:O	1:B:47:CYS:CA	2.48	0.62
1:C:2546:MET:O	1:C:2550:LEU:N	2.31	0.62
1:D:4235:VAL:CG2	1:D:5019:TRP:CE3	2.50	0.62
1:D:4685:GLY:HA3	1:D:4689:THR:H	1.65	0.62
1:A:2121:PHE:O	1:A:3725:TYR:OH	2.17	0.62
1:A:2342:ASN:HA	1:A:2343:GLY:C	2.24	0.62
1:B:25:SER:O	1:B:33:LEU:O	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2342:ASN:HA	1:B:2343:GLY:C	2.24	0.62
1:B:5018:CYS:C	1:B:5019:TRP:CD1	2.77	0.62
1:C:1130:GLN:HA	1:C:1137:GLU:O	1.98	0.62
1:C:3766:GLN:HA	1:C:3769:ARG:NH2	2.15	0.62
1:C:4115:SER:HA	1:C:4128:PHE:HZ	0.82	0.62
1:C:4577:LEU:HD23	1:C:4577:LEU:O	1.98	0.62
1:D:643:SER:HA	1:D:782:SER:HA	1.82	0.62
1:D:2121:PHE:O	1:D:3725:TYR:OH	2.17	0.62
1:A:3108:GLU:O	1:A:3112:LEU:N	2.28	0.62
1:A:4656:LEU:HD13	1:A:4657:CYS:N	2.14	0.62
1:A:4995:LEU:HD12	1:A:5011:TRP:CZ3	2.33	0.62
1:A:5018:CYS:C	1:A:5019:TRP:CD1	2.77	0.62
1:B:1209:SER:O	1:B:1210:SER:C	2.39	0.62
1:B:4243:PHE:O	1:B:4243:PHE:HD1	1.82	0.62
1:C:490:CYS:O	1:C:493:ARG:N	2.33	0.62
1:C:4222:VAL:CB	1:C:4950:VAL:CG2	2.77	0.62
1:C:4656:LEU:HD13	1:C:4657:CYS:N	2.14	0.62
1:D:111:HIS:C	1:D:113:HIS:O	2.37	0.62
1:D:483:MET:O	1:D:485:SER:N	2.33	0.62
1:D:498:THR:C	1:D:500:ALA:HA	2.24	0.62
1:D:2588:ARG:HA	1:D:2589:LEU:CB	2.29	0.62
1:D:4780:PHE:O	1:D:4783:ILE:HG23	1.99	0.62
1:D:5017:ARG:CB	1:D:5019:TRP:NE1	2.61	0.62
1:A:25:SER:O	1:A:33:LEU:O	2.17	0.62
1:A:1130:GLN:HA	1:A:1137:GLU:O	1.98	0.62
1:A:2777:TYR:H	1:A:2854:GLY:HA2	1.64	0.62
1:A:3766:GLN:HA	1:A:3769:ARG:NH2	2.15	0.62
1:A:4115:SER:HA	1:A:4128:PHE:HZ	0.82	0.62
1:A:4181:ILE:HD11	1:A:4194:TYR:CA	2.30	0.62
1:A:4243:PHE:O	1:A:4243:PHE:HD1	1.82	0.62
1:B:1217:CYS:O	1:B:1221:GLU:CB	2.47	0.62
1:B:2588:ARG:HA	1:B:2589:LEU:CB	2.29	0.62
1:B:4927:ILE:HG13	1:B:4928:LEU:HD23	1.81	0.62
1:C:701:GLY:H	1:C:1645:ASN:C	2.07	0.62
1:C:4158:PRO:O	1:C:4159:ARG:C	2.40	0.62
1:C:4190:ILE:O	1:C:4190:ILE:HG12	2.00	0.62
1:D:5018:CYS:C	1:D:5019:TRP:CD1	2.77	0.62
1:A:4108:ILE:HD12	1:A:4109:GLN:N	2.15	0.62
1:B:73:LEU:H	1:B:106:ALA:H	1.46	0.62
1:B:2755:ILE:O	1:B:2759:ALA:HB3	2.00	0.62
1:B:4985:LEU:O	1:B:4988:TYR:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:MET:O	1:C:485:SER:N	2.33	0.62
1:C:2588:ARG:HA	1:C:2589:LEU:CB	2.29	0.62
1:C:4970:THR:HG22	1:C:4970:THR:O	1.98	0.62
1:D:4921:PHE:O	1:D:4925:ILE:HD13	1.94	0.62
1:D:4968:PHE:HD2	1:D:4978:HIS:CB	2.11	0.62
1:A:1290:ARG:N	1:A:1551:ALA:CB	2.57	0.62
1:A:2755:ILE:O	1:A:2759:ALA:HB3	2.00	0.62
1:A:4182:GLU:C	1:A:4183:ILE:HD12	2.25	0.62
1:A:4780:PHE:O	1:A:4783:ILE:HG23	1.99	0.62
1:B:112:ALA:C	1:B:115:ARG:H	2.08	0.62
1:B:3933:PHE:CE1	1:B:3951:PHE:HD2	2.02	0.62
1:B:4190:ILE:O	1:B:4190:ILE:HG12	2.00	0.62
1:B:4921:PHE:O	1:B:4925:ILE:HD13	1.94	0.62
1:C:38:ALA:O	1:C:47:CYS:CA	2.48	0.62
1:C:4931:ILE:O	1:C:4935:LEU:CG	2.40	0.62
1:D:490:CYS:O	1:D:493:ARG:N	2.33	0.62
1:A:498:THR:C	1:A:500:ALA:HA	2.24	0.61
1:B:483:MET:O	1:B:485:SER:N	2.33	0.61
1:B:1803:PRO:O	1:B:1806:ALA:N	2.33	0.61
1:B:4944:ARG:HD2	1:B:4944:ARG:C	2.24	0.61
1:C:643:SER:HA	1:C:782:SER:HA	1.82	0.61
1:C:1217:CYS:O	1:C:1221:GLU:CB	2.47	0.61
1:C:1803:PRO:O	1:C:1806:ALA:N	2.33	0.61
1:C:2342:ASN:HA	1:C:2343:GLY:C	2.24	0.61
1:C:2777:TYR:H	1:C:2854:GLY:HA2	1.64	0.61
1:C:3834:ALA:O	1:C:3837:GLN:HB3	2.00	0.61
1:C:4656:LEU:HD22	1:C:4656:LEU:C	2.23	0.61
1:D:38:ALA:O	1:D:47:CYS:CA	2.48	0.61
1:D:1217:CYS:O	1:D:1221:GLU:CB	2.48	0.61
1:D:4190:ILE:O	1:D:4190:ILE:HG12	2.00	0.61
1:D:4233:LEU:O	1:D:4236:SER:OG	2.15	0.61
1:D:4656:LEU:HD22	1:D:4656:LEU:C	2.23	0.61
1:D:4673:ARG:HH11	1:D:4673:ARG:CB	2.04	0.61
1:D:4687:TYR:H	1:D:4692:PRO:HD3	1.59	0.61
1:D:4967:TYR:OH	1:D:5030:LYS:HA	2.00	0.61
1:A:1217:CYS:O	1:A:1221:GLU:CB	2.48	0.61
1:A:1803:PRO:O	1:A:1806:ALA:N	2.33	0.61
1:A:3986:TRP:H	1:A:3987:ASP:CB	2.12	0.61
1:B:111:HIS:C	1:B:113:HIS:O	2.37	0.61
1:B:490:CYS:O	1:B:493:ARG:N	2.33	0.61
1:B:838:HIS:O	1:B:1200:GLY:O	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3378:GLN:O	1:B:3381:LEU:N	2.32	0.61
1:B:4195:PHE:O	1:B:4195:PHE:HD1	1.84	0.61
1:B:4967:TYR:OH	1:B:5030:LYS:HA	2.00	0.61
1:C:25:SER:O	1:C:33:LEU:O	2.17	0.61
1:C:1749:PRO:C	1:C:1751:GLY:N	2.53	0.61
1:D:3834:ALA:O	1:D:3837:GLN:HB3	2.00	0.61
1:D:4108:ILE:HD12	1:D:4109:GLN:N	2.15	0.61
1:D:4795:TYR:OH	1:D:4813:LEU:CB	2.48	0.61
1:D:4927:ILE:HG13	1:D:4928:LEU:HD23	1.81	0.61
1:A:73:LEU:H	1:A:106:ALA:H	1.46	0.61
1:A:2454:ARG:HD2	1:A:2454:ARG:O	2.00	0.61
1:B:4108:ILE:HD12	1:B:4109:GLN:N	2.15	0.61
1:B:4115:SER:HA	1:B:4128:PHE:HZ	0.82	0.61
1:B:4656:LEU:HD22	1:B:4656:LEU:C	2.23	0.61
1:C:112:ALA:C	1:C:115:ARG:H	2.08	0.61
1:C:4195:PHE:HD1	1:C:4195:PHE:O	1.84	0.61
1:C:5017:ARG:HD3	1:C:5019:TRP:HZ2	1.64	0.61
1:D:4570:ALA:CB	1:D:4813:LEU:CB	2.78	0.61
1:D:4820:VAL:O	1:D:4824:ARG:N	2.30	0.61
1:A:2546:MET:O	1:A:2550:LEU:N	2.31	0.61
1:A:4195:PHE:O	1:A:4195:PHE:HD1	1.84	0.61
1:B:701:GLY:N	1:B:1645:ASN:CB	2.64	0.61
1:B:4696:ASP:C	1:B:4697:VAL:CG2	2.71	0.61
1:C:4572:ALA:O	1:C:4576:ILE:HG12	2.01	0.61
1:C:4795:TYR:OH	1:C:4813:LEU:CB	2.48	0.61
1:D:4158:PRO:O	1:D:4159:ARG:C	2.40	0.61
1:D:4182:GLU:C	1:D:4183:ILE:HD12	2.25	0.61
1:A:4696:ASP:CA	1:A:4697:VAL:CG2	2.52	0.61
1:A:5017:ARG:CB	1:A:5019:TRP:NE1	2.61	0.61
1:B:2121:PHE:O	1:B:3725:TYR:OH	2.17	0.61
1:B:4182:GLU:C	1:B:4183:ILE:HD12	2.25	0.61
1:C:665:GLU:O	1:C:792:LEU:CA	2.48	0.61
1:C:701:GLY:N	1:C:1645:ASN:CB	2.64	0.61
1:C:790:ARG:N	1:C:1627:ALA:HB1	2.14	0.61
1:C:4685:GLY:HA3	1:C:4689:THR:H	1.65	0.61
1:C:5021:PHE:C	1:C:5022:PHE:O	2.28	0.61
1:D:2454:ARG:HD2	1:D:2454:ARG:O	2.00	0.61
1:D:3766:GLN:HA	1:D:3769:ARG:NH2	2.15	0.61
1:D:4243:PHE:HD1	1:D:4243:PHE:O	1.82	0.61
1:D:5019:TRP:CD1	1:D:5019:TRP:N	2.67	0.61
1:A:490:CYS:O	1:A:493:ARG:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3455:GLU:CB	1:A:3458:PHE:CB	2.79	0.61
1:A:4173:TYR:HD2	1:A:4174:PHE:CD1	2.19	0.61
1:A:4559:PHE:HD1	1:A:4560:TYR:CD1	1.97	0.61
1:B:665:GLU:O	1:B:792:LEU:CA	2.48	0.61
1:C:2121:PHE:O	1:C:3725:TYR:OH	2.17	0.61
1:C:4570:ALA:CB	1:C:4813:LEU:CB	2.78	0.61
1:C:4687:TYR:H	1:C:4692:PRO:HD3	1.59	0.61
1:D:1803:PRO:O	1:D:1806:ALA:N	2.33	0.61
1:D:2342:ASN:HA	1:D:2343:GLY:C	2.25	0.61
1:D:4235:VAL:CG1	1:D:5019:TRP:HZ3	2.05	0.61
1:A:38:ALA:O	1:A:47:CYS:CA	2.48	0.61
1:A:790:ARG:N	1:A:1627:ALA:HB1	2.14	0.61
1:A:3834:ALA:O	1:A:3837:GLN:HB3	2.00	0.61
1:A:4685:GLY:HA3	1:A:4689:THR:H	1.65	0.61
1:B:3455:GLU:CB	1:B:3458:PHE:CB	2.79	0.61
1:C:2586:VAL:CA	1:C:2587:TYR:CB	2.71	0.61
1:C:4918:ILE:CB	1:D:4891:VAL:HG21	2.30	0.61
1:D:2677:LYS:O	1:D:2681:GLY:N	2.30	0.61
1:D:2755:ILE:O	1:D:2759:ALA:HB3	2.00	0.61
1:D:4173:TYR:HD2	1:D:4174:PHE:CD1	2.19	0.61
1:B:2454:ARG:HD2	1:B:2454:ARG:O	2.00	0.61
1:B:4088:ILE:C	1:B:4089:SER:O	2.44	0.61
1:C:3708:THR:C	1:C:3710:LEU:HA	2.24	0.61
1:C:4934:GLY:CA	1:D:4937:ILE:HD11	2.30	0.61
1:D:39:ALA:HB2	1:D:47:CYS:CA	2.31	0.61
1:D:665:GLU:O	1:D:792:LEU:CA	2.48	0.61
1:D:4115:SER:HA	1:D:4128:PHE:HZ	0.82	0.61
1:D:4195:PHE:O	1:D:4195:PHE:HD1	1.84	0.61
1:D:4572:ALA:O	1:D:4576:ILE:HG12	2.00	0.61
1:D:4843:LEU:C	1:D:4843:LEU:HD23	2.26	0.61
1:A:112:ALA:C	1:A:115:ARG:H	2.08	0.61
1:A:643:SER:HA	1:A:782:SER:HA	1.82	0.61
1:A:701:GLY:N	1:A:1645:ASN:CB	2.64	0.61
1:A:3986:TRP:HE1	1:A:4047:MET:CB	2.13	0.61
1:A:4795:TYR:OH	1:A:4813:LEU:CB	2.48	0.61
1:B:2677:LYS:O	1:B:2681:GLY:N	2.30	0.61
1:B:4570:ALA:CB	1:B:4813:LEU:CB	2.78	0.61
1:B:4843:LEU:HD23	1:B:4843:LEU:C	2.26	0.61
1:C:2755:ILE:O	1:C:2759:ALA:HB3	2.00	0.61
1:C:3455:GLU:CB	1:C:3458:PHE:CB	2.79	0.61
1:C:3962:PHE:CE2	1:C:4023:MET:CB	2.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4927:ILE:HG13	1:C:4928:LEU:HD23	1.81	0.61
1:D:20:VAL:N	1:D:67:PHE:CB	2.64	0.61
1:D:4862:PHE:O	1:D:4863:TYR:HB3	1.99	0.61
1:A:39:ALA:HB2	1:A:47:CYS:CA	2.31	0.61
1:A:4190:ILE:O	1:A:4190:ILE:HG12	2.00	0.61
1:A:4843:LEU:HD23	1:A:4843:LEU:C	2.26	0.61
1:B:1287:LEU:CB	1:B:1554:VAL:C	2.74	0.61
1:B:1715:LEU:O	1:B:1719:HIS:CB	2.49	0.61
1:B:3833:GLN:NE2	1:B:3833:GLN:O	2.34	0.61
1:B:4572:ALA:O	1:B:4576:ILE:HG12	2.01	0.61
1:C:4696:ASP:C	1:C:4697:VAL:CG2	2.71	0.61
1:C:4968:PHE:HD2	1:C:4978:HIS:CB	2.11	0.61
1:C:4998:LYS:C	1:C:5002:GLU:CB	2.74	0.61
1:D:3061:ALA:O	1:D:3064:VAL:C	2.37	0.61
1:D:3455:GLU:CB	1:D:3458:PHE:CB	2.79	0.61
1:D:4832:HIS:HD1	1:D:4833:ASN:CG	2.08	0.61
1:A:3833:GLN:O	1:A:3833:GLN:NE2	2.34	0.60
1:A:4572:ALA:O	1:A:4576:ILE:HG12	2.01	0.60
1:A:4862:PHE:O	1:A:4863:TYR:HB3	1.99	0.60
1:B:3834:ALA:O	1:B:3837:GLN:HB3	2.00	0.60
1:B:4183:ILE:CG2	1:B:4191:GLU:C	2.54	0.60
1:B:4664:LEU:O	1:B:4667:PRO:HD2	2.01	0.60
1:B:5019:TRP:CD1	1:B:5019:TRP:N	2.67	0.60
1:C:842:PRO:O	1:C:1196:PRO:CB	2.49	0.60
1:C:4843:LEU:HD23	1:C:4843:LEU:C	2.26	0.60
1:D:2121:PHE:CE2	1:D:3702:VAL:CB	2.75	0.60
1:D:3763:LEU:HD23	1:D:3763:LEU:O	2.00	0.60
1:D:4181:ILE:HD11	1:D:4194:TYR:CA	2.30	0.60
1:D:4998:LYS:C	1:D:5002:GLU:CB	2.74	0.60
1:A:3933:PHE:CE1	1:A:3951:PHE:HD2	2.02	0.60
1:A:4183:ILE:CG2	1:A:4191:GLU:C	2.54	0.60
1:B:20:VAL:N	1:B:67:PHE:CB	2.64	0.60
1:B:3962:PHE:CE2	1:B:4023:MET:CB	2.84	0.60
1:B:4918:ILE:CB	1:C:4891:VAL:HG21	2.31	0.60
1:C:4862:PHE:O	1:C:4863:TYR:HB3	2.00	0.60
1:C:5021:PHE:CD1	1:C:5022:PHE:N	2.70	0.60
1:D:701:GLY:N	1:D:1645:ASN:CB	2.64	0.60
1:D:3962:PHE:CE2	1:D:4023:MET:CB	2.84	0.60
1:A:1715:LEU:O	1:A:1719:HIS:CB	2.49	0.60
1:A:4197:ILE:HG23	1:A:4197:ILE:O	2.02	0.60
1:B:4173:TYR:HD2	1:B:4174:PHE:CD1	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4181:ILE:HD11	1:B:4194:TYR:CA	2.30	0.60
1:B:4795:TYR:OH	1:B:4813:LEU:CB	2.48	0.60
1:B:4998:LYS:C	1:B:5002:GLU:CB	2.74	0.60
1:C:4088:ILE:C	1:C:4089:SER:O	2.44	0.60
1:C:4132:PHE:C	1:C:4135:PRO:HD2	2.26	0.60
1:C:4559:PHE:HD1	1:C:4560:TYR:CD1	1.97	0.60
1:D:1715:LEU:O	1:D:1719:HIS:CB	2.49	0.60
1:A:20:VAL:N	1:A:67:PHE:CB	2.64	0.60
1:A:842:PRO:O	1:A:1196:PRO:CB	2.49	0.60
1:A:1287:LEU:CB	1:A:1554:VAL:C	2.74	0.60
1:A:4664:LEU:O	1:A:4667:PRO:HD2	2.01	0.60
1:B:2443:ILE:CB	1:B:2444:GLN:HA	2.32	0.60
1:B:4862:PHE:O	1:B:4863:TYR:HB3	1.99	0.60
1:C:838:HIS:O	1:C:1200:GLY:O	2.18	0.60
1:D:112:ALA:C	1:D:115:ARG:H	2.08	0.60
1:A:838:HIS:O	1:A:1200:GLY:O	2.18	0.60
1:A:3763:LEU:HD23	1:A:3763:LEU:O	2.00	0.60
1:A:4243:PHE:CD2	1:A:4671:PHE:CD1	2.84	0.60
1:A:4931:ILE:O	1:A:4935:LEU:CG	2.40	0.60
1:A:4978:HIS:NE2	1:A:4983:HIS:CG	2.62	0.60
1:B:643:SER:HA	1:B:782:SER:HA	1.82	0.60
1:B:4197:ILE:HG23	1:B:4197:ILE:O	2.02	0.60
1:C:39:ALA:HB2	1:C:47:CYS:CA	2.31	0.60
1:C:1287:LEU:CB	1:C:1554:VAL:C	2.74	0.60
1:C:3933:PHE:CZ	1:C:3951:PHE:CE2	2.85	0.60
1:C:3986:TRP:HE1	1:C:4047:MET:CB	2.13	0.60
1:C:4183:ILE:CG2	1:C:4191:GLU:C	2.54	0.60
1:C:4717:ASP:O	1:C:4718:LYS:CB	2.49	0.60
1:D:644:ILE:O	1:D:781:VAL:N	2.24	0.60
1:D:1287:LEU:CB	1:D:1554:VAL:C	2.74	0.60
1:D:1435:TYR:O	1:D:1436:SER:CB	2.50	0.60
1:D:3933:PHE:CZ	1:D:3951:PHE:CE2	2.85	0.60
1:D:4717:ASP:O	1:D:4718:LYS:CB	2.49	0.60
1:A:1435:TYR:O	1:A:1436:SER:CB	2.50	0.60
1:A:3934:TYR:CE1	1:A:3935:TRP:CZ3	2.90	0.60
1:B:2121:PHE:CE2	1:B:3702:VAL:CB	2.75	0.60
1:C:1715:LEU:O	1:C:1719:HIS:CB	2.49	0.60
1:C:2454:ARG:HD2	1:C:2454:ARG:O	2.00	0.60
1:C:3763:LEU:HD23	1:C:3763:LEU:O	2.00	0.60
1:C:4182:GLU:C	1:C:4183:ILE:HD12	2.25	0.60
1:C:4208:PRO:HG2	1:C:4209:GLN:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4664:LEU:O	1:C:4667:PRO:HD2	2.01	0.60
1:C:4832:HIS:HD1	1:C:4833:ASN:CG	2.08	0.60
1:D:5021:PHE:CD1	1:D:5022:PHE:N	2.70	0.60
1:A:665:GLU:O	1:A:792:LEU:CA	2.48	0.60
1:A:4832:HIS:HD1	1:A:4833:ASN:CG	2.08	0.60
1:B:39:ALA:HB2	1:B:47:CYS:CA	2.31	0.60
1:C:3966:THR:O	1:C:3970:GLN:N	2.35	0.60
1:D:118:LEU:CB	1:D:137:LEU:CB	2.80	0.60
1:B:5017:ARG:CB	1:B:5019:TRP:NE1	2.61	0.60
1:C:482:GLY:O	1:C:485:SER:CB	2.50	0.60
1:C:2443:ILE:CB	1:C:2444:GLN:HA	2.32	0.60
1:C:4173:TYR:HD2	1:C:4174:PHE:CD1	2.19	0.60
1:C:4967:TYR:OH	1:C:5030:LYS:HA	2.00	0.60
1:D:482:GLY:O	1:D:485:SER:CB	2.50	0.60
1:D:3833:GLN:NE2	1:D:3833:GLN:O	2.34	0.60
1:D:3966:THR:O	1:D:3970:GLN:N	2.35	0.60
1:A:4638:TYR:O	1:A:4641:PRO:HG2	2.02	0.60
1:A:4985:LEU:O	1:A:4988:TYR:N	2.34	0.60
1:B:3763:LEU:HD23	1:B:3763:LEU:O	2.00	0.60
1:C:315:CYS:O	1:C:349:GLN:O	2.20	0.60
1:D:4995:LEU:CD1	1:D:5011:TRP:HZ3	2.12	0.60
1:A:2443:ILE:CB	1:A:2444:GLN:HA	2.32	0.60
1:A:4208:PRO:HG2	1:A:4209:GLN:H	1.67	0.60
1:A:4644:TRP:CE3	1:A:4645:CYS:CA	2.85	0.60
1:A:4857:ASN:C	1:A:4858:PHE:CD1	2.80	0.60
1:A:4998:LYS:C	1:A:5002:GLU:CB	2.74	0.60
1:B:482:GLY:O	1:B:485:SER:CB	2.50	0.60
1:C:4832:HIS:HD1	1:C:4833:ASN:N	2.00	0.60
1:C:4930:ALA:HB1	1:D:4936:ILE:HD12	1.80	0.60
1:D:1081:TYR:OH	1:D:1235:THR:N	2.21	0.60
1:D:4132:PHE:C	1:D:4135:PRO:HD2	2.27	0.60
1:D:4728:HIS:O	1:D:4737:ILE:CD1	2.46	0.60
1:A:3962:PHE:CE2	1:A:4023:MET:CB	2.84	0.59
1:A:4967:TYR:OH	1:A:5030:LYS:HA	2.00	0.59
1:B:2501:SER:O	1:B:2505:PHE:N	2.28	0.59
1:B:4132:PHE:C	1:B:4135:PRO:HD2	2.26	0.59
1:B:4235:VAL:CB	1:B:5019:TRP:HZ3	2.04	0.59
1:B:4857:ASN:C	1:B:4858:PHE:CD1	2.80	0.59
1:B:4952:GLU:OE2	1:B:4953:ASP:N	2.35	0.59
1:B:5021:PHE:CD1	1:B:5022:PHE:N	2.70	0.59
1:C:1435:TYR:O	1:C:1436:SER:CB	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3934:TYR:CE1	1:C:3935:TRP:CZ3	2.90	0.59
1:C:3945:GLU:O	1:C:3947:GLY:N	2.29	0.59
1:C:4237:PHE:O	1:C:4241:THR:OG1	2.20	0.59
1:D:4237:PHE:O	1:D:4241:THR:OG1	2.20	0.59
1:D:4685:GLY:CA	1:D:4689:THR:H	2.15	0.59
1:D:4738:ALA:HA	1:D:4742:GLY:CA	2.30	0.59
1:D:4857:ASN:C	1:D:4858:PHE:CD1	2.80	0.59
1:D:4978:HIS:O	1:D:4982:GLU:HA	2.02	0.59
1:A:512:ALA:O	1:A:515:TRP:HE3	1.85	0.59
1:A:4237:PHE:O	1:A:4241:THR:OG1	2.20	0.59
1:A:4570:ALA:CB	1:A:4813:LEU:CB	2.78	0.59
1:A:4832:HIS:HD1	1:A:4833:ASN:N	2.00	0.59
1:B:512:ALA:O	1:B:515:TRP:HE3	1.85	0.59
1:B:842:PRO:O	1:B:1196:PRO:CB	2.49	0.59
1:B:3934:TYR:CE1	1:B:3935:TRP:CZ3	2.90	0.59
1:B:3986:TRP:HE1	1:B:4047:MET:CB	2.13	0.59
1:B:4559:PHE:HD1	1:B:4560:TYR:CD1	1.97	0.59
1:C:118:LEU:CB	1:C:137:LEU:CB	2.80	0.59
1:C:4685:GLY:CA	1:C:4689:THR:H	2.15	0.59
1:D:315:CYS:O	1:D:349:GLN:O	2.20	0.59
1:D:842:PRO:O	1:D:1196:PRO:CB	2.49	0.59
1:D:4644:TRP:CE3	1:D:4645:CYS:CA	2.85	0.59
1:D:4667:PRO:O	1:D:4670:ILE:HG22	2.02	0.59
1:A:315:CYS:O	1:A:349:GLN:O	2.20	0.59
1:A:2200:ALA:C	1:A:2202:GLY:N	2.58	0.59
1:A:3833:GLN:HE21	1:A:3833:GLN:HA	1.67	0.59
1:A:4089:SER:CB	1:A:4092:ASP:CB	2.80	0.59
1:A:4644:TRP:HE3	1:A:4645:CYS:N	2.00	0.59
1:A:4685:GLY:CA	1:A:4689:THR:H	2.15	0.59
1:B:38:ALA:HB1	1:B:64:ILE:C	2.18	0.59
1:B:4685:GLY:HA3	1:B:4689:THR:H	1.65	0.59
1:B:4863:TYR:CG	1:B:4864:ASN:N	2.70	0.59
1:B:4885:PHE:CE1	1:B:4889:VAL:CG1	2.86	0.59
1:D:512:ALA:O	1:D:515:TRP:HE3	1.85	0.59
1:D:1287:LEU:CB	1:D:1553:PHE:CA	2.81	0.59
1:D:3986:TRP:HE1	1:D:4047:MET:CB	2.13	0.59
1:D:4664:LEU:O	1:D:4667:PRO:HD2	2.01	0.59
1:A:118:LEU:CB	1:A:137:LEU:CB	2.80	0.59
1:A:4863:TYR:CG	1:A:4864:ASN:N	2.70	0.59
1:B:118:LEU:CB	1:B:137:LEU:CB	2.80	0.59
1:B:509:GLU:O	1:B:510:GLU:C	2.46	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3966:THR:O	1:B:3970:GLN:N	2.35	0.59
1:B:4995:LEU:HD11	1:B:5011:TRP:HE3	0.63	0.59
1:C:1078:GLU:CB	1:C:1081:TYR:CE2	2.85	0.59
1:C:3833:GLN:O	1:C:3833:GLN:NE2	2.34	0.59
1:C:4857:ASN:C	1:C:4858:PHE:CD1	2.80	0.59
1:D:38:ALA:HB1	1:D:64:ILE:C	2.18	0.59
1:D:3833:GLN:HE21	1:D:3833:GLN:HA	1.67	0.59
1:A:41:GLY:O	1:A:44:ASN:C	2.46	0.59
1:A:4154:VAL:HG12	1:A:4156:HIS:O	2.03	0.59
1:A:4667:PRO:O	1:A:4670:ILE:HG22	2.02	0.59
1:A:4918:ILE:CB	1:B:4891:VAL:HG21	2.31	0.59
1:A:4978:HIS:O	1:A:4982:GLU:HA	2.02	0.59
1:A:5021:PHE:CD1	1:A:5022:PHE:N	2.70	0.59
1:B:829:TYR:O	1:B:839:LEU:HA	2.03	0.59
1:B:4180:ARG:H	1:B:4181:ILE:CG1	2.15	0.59
1:B:4638:TYR:O	1:B:4641:PRO:HG2	2.02	0.59
1:B:4978:HIS:O	1:B:4982:GLU:HA	2.02	0.59
1:C:41:GLY:O	1:C:44:ASN:C	2.46	0.59
1:C:829:TYR:O	1:C:839:LEU:HA	2.03	0.59
1:C:4667:PRO:O	1:C:4670:ILE:HG22	2.02	0.59
1:C:4934:GLY:N	1:D:4937:ILE:HD11	2.17	0.59
1:D:243:ARG:O	1:D:300:VAL:CA	2.51	0.59
1:D:838:HIS:O	1:D:1200:GLY:O	2.18	0.59
1:D:2443:ILE:CB	1:D:2444:GLN:HA	2.32	0.59
1:A:482:GLY:O	1:A:485:SER:CB	2.50	0.59
1:A:1078:GLU:CB	1:A:1081:TYR:CE2	2.85	0.59
1:B:315:CYS:O	1:B:349:GLN:O	2.20	0.59
1:B:3987:ASP:CB	1:B:3988:ALA:HB2	2.33	0.59
1:C:512:ALA:O	1:C:515:TRP:HE3	1.85	0.59
1:C:635:THR:CA	1:C:1639:LEU:CB	2.81	0.59
1:C:4154:VAL:HG12	1:C:4156:HIS:O	2.03	0.59
1:C:4181:ILE:HD11	1:C:4194:TYR:CA	2.30	0.59
1:A:379:HIS:H	1:A:381:GLU:N	2.01	0.59
1:A:3966:THR:O	1:A:3970:GLN:N	2.35	0.59
1:A:3987:ASP:CB	1:A:3988:ALA:HB2	2.33	0.59
1:A:4940:PHE:CE2	1:D:4935:LEU:HD23	2.30	0.59
1:B:1435:TYR:O	1:B:1436:SER:CB	2.50	0.59
1:B:2538:THR:O	1:B:2540:THR:N	2.33	0.59
1:C:111:HIS:C	1:C:113:HIS:O	2.37	0.59
1:C:1287:LEU:CB	1:C:1553:PHE:CA	2.81	0.59
1:C:1451:GLY:O	1:C:1452:TRP:HD1	1.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4885:PHE:CE1	1:C:4889:VAL:CG1	2.85	0.59
1:D:635:THR:CA	1:D:1639:LEU:CB	2.81	0.59
1:D:3987:ASP:CB	1:D:3988:ALA:HB2	2.33	0.59
1:D:4087:LEU:CB	1:D:4122:MET:HA	2.32	0.59
1:D:4089:SER:CB	1:D:4092:ASP:CB	2.80	0.59
1:A:509:GLU:O	1:A:510:GLU:C	2.46	0.59
1:A:2538:THR:O	1:A:2540:THR:N	2.33	0.59
1:A:4087:LEU:CB	1:A:4122:MET:HA	2.32	0.59
1:A:5019:TRP:CD1	1:A:5019:TRP:N	2.67	0.59
1:B:4089:SER:CB	1:B:4092:ASP:CB	2.80	0.59
1:B:4644:TRP:CE3	1:B:4645:CYS:CA	2.85	0.59
1:C:1209:SER:O	1:C:1210:SER:C	2.39	0.59
1:C:4682:GLU:CB	1:C:4683:PHE:CD1	2.86	0.59
1:D:4181:ILE:O	1:D:4182:GLU:CB	2.40	0.59
1:D:4208:PRO:HG2	1:D:4209:GLN:H	1.67	0.59
1:B:4685:GLY:CA	1:B:4689:THR:H	2.15	0.59
1:B:4889:VAL:HG23	1:B:4890:GLY:N	2.18	0.59
1:B:4930:ALA:CB	1:C:4936:ILE:HD13	2.33	0.59
1:C:151:HIS:O	1:C:152:PRO:C	2.46	0.59
1:C:243:ARG:O	1:C:300:VAL:CA	2.51	0.59
1:C:667:MET:O	1:C:790:ARG:N	2.29	0.59
1:C:4089:SER:CB	1:C:4092:ASP:CB	2.80	0.59
1:C:4243:PHE:CD2	1:C:4671:PHE:CD1	2.84	0.59
1:C:4638:TYR:O	1:C:4641:PRO:HG2	2.02	0.59
1:C:4644:TRP:CE3	1:C:4645:CYS:CA	2.85	0.59
1:D:1078:GLU:CB	1:D:1081:TYR:CE2	2.85	0.59
1:D:4638:TYR:O	1:D:4641:PRO:HG2	2.02	0.59
1:D:4644:TRP:HE3	1:D:4645:CYS:N	2.00	0.59
1:D:4832:HIS:HD1	1:D:4833:ASN:N	2.00	0.59
1:D:4863:TYR:CG	1:D:4864:ASN:N	2.70	0.59
1:D:4952:GLU:OE2	1:D:4953:ASP:N	2.35	0.59
1:A:243:ARG:O	1:A:300:VAL:CA	2.51	0.59
1:A:2454:ARG:HD2	1:A:2454:ARG:C	2.28	0.59
1:A:3935:TRP:HA	1:A:3935:TRP:HE3	1.68	0.59
1:A:4132:PHE:C	1:A:4135:PRO:HD2	2.26	0.59
1:A:4180:ARG:H	1:A:4181:ILE:CG1	2.15	0.59
1:B:4208:PRO:HG2	1:B:4209:GLN:H	1.67	0.59
1:B:4237:PHE:O	1:B:4241:THR:OG1	2.20	0.59
1:B:4832:HIS:HD1	1:B:4833:ASN:CG	2.08	0.59
1:C:38:ALA:HB1	1:C:64:ILE:C	2.18	0.59
1:C:379:HIS:H	1:C:381:GLU:N	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4180:ARG:H	1:C:4181:ILE:CG1	2.15	0.59
1:C:4644:TRP:HE3	1:C:4645:CYS:N	2.00	0.59
1:C:4728:HIS:O	1:C:4737:ILE:CD1	2.46	0.59
1:C:4978:HIS:O	1:C:4982:GLU:HA	2.02	0.59
1:A:1287:LEU:CB	1:A:1553:PHE:CA	2.81	0.58
1:A:4235:VAL:CG1	1:A:5019:TRP:HZ3	2.05	0.58
1:A:4885:PHE:CE1	1:A:4889:VAL:CG1	2.85	0.58
1:A:4889:VAL:HG23	1:A:4890:GLY:N	2.18	0.58
1:C:840:VAL:CB	1:C:1199:VAL:HA	2.33	0.58
1:C:4087:LEU:CB	1:C:4122:MET:HA	2.32	0.58
1:C:4927:ILE:CD1	1:C:4928:LEU:HD22	2.33	0.58
1:D:1206:GLN:O	1:D:1209:SER:CB	2.51	0.58
1:D:2914:LYS:O	1:D:2917:ALA:HB3	2.03	0.58
1:D:3934:TYR:CE1	1:D:3935:TRP:CZ3	2.90	0.58
1:D:4885:PHE:CE1	1:D:4889:VAL:CG1	2.85	0.58
1:A:2767:ALA:O	1:A:2771:ILE:CB	2.51	0.58
1:A:3967:GLU:HA	1:A:3970:GLN:CB	2.33	0.58
1:A:3987:ASP:CB	1:A:3988:ALA:CB	2.81	0.58
1:A:4952:GLU:OE2	1:A:4953:ASP:N	2.35	0.58
1:B:1287:LEU:CB	1:B:1553:PHE:CA	2.81	0.58
1:B:2454:ARG:HD2	1:B:2454:ARG:C	2.28	0.58
1:B:4087:LEU:CB	1:B:4122:MET:HA	2.32	0.58
1:C:1206:GLN:O	1:C:1209:SER:CB	2.51	0.58
1:C:4197:ILE:HG23	1:C:4197:ILE:O	2.02	0.58
1:D:41:GLY:O	1:D:44:ASN:C	2.46	0.58
1:D:2191:PHE:HD1	1:D:2192:TYR:HD1	1.50	0.58
1:D:4682:GLU:CB	1:D:4683:PHE:CD1	2.86	0.58
1:D:4738:ALA:O	1:D:4742:GLY:CA	2.51	0.58
1:D:4889:VAL:HG23	1:D:4890:GLY:N	2.18	0.58
1:A:4774:LYS:HA	1:A:4777:ILE:HG22	1.85	0.58
1:A:4829:SER:CB	1:A:4940:PHE:CE1	2.86	0.58
1:A:4940:PHE:CE2	1:D:4935:LEU:HD21	2.34	0.58
1:B:1246:GLU:C	1:B:1601:MET:O	2.46	0.58
1:B:1739:THR:O	1:B:1742:THR:N	2.36	0.58
1:B:4667:PRO:O	1:B:4670:ILE:HG22	2.02	0.58
1:C:1124:PHE:HD1	1:C:1125:ASN:O	1.87	0.58
1:C:1164:LEU:C	1:C:1166:GLY:N	2.61	0.58
1:C:2914:LYS:O	1:C:2917:ALA:HB3	2.03	0.58
1:C:4776:GLN:HE21	1:C:4776:GLN:CA	2.00	0.58
1:D:2454:ARG:HD2	1:D:2454:ARG:C	2.28	0.58
1:D:2592:GLY:H	1:D:2595:LEU:N	1.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4927:ILE:HD11	1:D:4928:LEU:CD2	2.33	0.58
1:A:1206:GLN:O	1:A:1209:SER:CB	2.51	0.58
1:A:1246:GLU:C	1:A:1601:MET:O	2.46	0.58
1:A:4687:TYR:H	1:A:4692:PRO:HD3	1.59	0.58
1:A:4717:ASP:O	1:A:4718:LYS:CB	2.49	0.58
1:A:4918:ILE:CB	1:B:4891:VAL:HG11	2.31	0.58
1:A:4927:ILE:HD11	1:A:4928:LEU:CD2	2.33	0.58
1:A:5016:GLU:C	1:A:5017:ARG:O	2.42	0.58
1:B:41:GLY:O	1:B:44:ASN:C	2.46	0.58
1:B:1078:GLU:CB	1:B:1081:TYR:CE2	2.85	0.58
1:B:2767:ALA:O	1:B:2771:ILE:CB	2.51	0.58
1:B:3967:GLU:HA	1:B:3970:GLN:CB	2.33	0.58
1:B:3987:ASP:CB	1:B:3988:ALA:CB	2.81	0.58
1:B:4644:TRP:HE3	1:B:4645:CYS:N	2.00	0.58
1:B:4927:ILE:HD11	1:B:4928:LEU:CD2	2.33	0.58
1:C:3987:ASP:CB	1:C:3988:ALA:HB2	2.33	0.58
1:C:4918:ILE:CB	1:D:4891:VAL:HG11	2.31	0.58
1:D:262:LEU:CB	1:D:263:GLU:CA	2.81	0.58
1:D:379:HIS:N	1:D:380:GLN:HA	2.18	0.58
1:D:840:VAL:CB	1:D:1199:VAL:HA	2.33	0.58
1:D:4034:ASN:O	1:D:4153:HIS:HE1	1.87	0.58
1:D:4774:LYS:HA	1:D:4777:ILE:HG22	1.85	0.58
1:A:789:VAL:O	1:A:1627:ALA:HA	2.03	0.58
1:A:4034:ASN:O	1:A:4153:HIS:HE1	1.87	0.58
1:A:4696:ASP:C	1:A:4697:VAL:CG2	2.71	0.58
1:B:379:HIS:N	1:B:380:GLN:HA	2.18	0.58
1:B:1206:GLN:O	1:B:1209:SER:CB	2.51	0.58
1:B:1451:GLY:O	1:B:1452:TRP:HD1	1.86	0.58
1:B:2451:LEU:C	1:B:2454:ARG:H	2.12	0.58
1:B:4682:GLU:CB	1:B:4683:PHE:CD1	2.86	0.58
1:B:4978:HIS:NE2	1:B:4983:HIS:CG	2.62	0.58
1:C:262:LEU:CB	1:C:263:GLU:CA	2.81	0.58
1:C:2200:ALA:C	1:C:2202:GLY:N	2.58	0.58
1:C:2767:ALA:O	1:C:2771:ILE:CB	2.51	0.58
1:D:829:TYR:O	1:D:839:LEU:HA	2.03	0.58
1:D:1289:LEU:CB	1:D:1552:VAL:O	2.52	0.58
1:D:1739:THR:O	1:D:1742:THR:N	2.36	0.58
1:D:3987:ASP:CB	1:D:3988:ALA:CB	2.81	0.58
1:D:4180:ARG:H	1:D:4181:ILE:CG1	2.15	0.58
1:A:2451:LEU:C	1:A:2454:ARG:H	2.12	0.58
1:A:3934:TYR:CE1	1:A:3935:TRP:HZ3	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4235:VAL:CG1	1:B:5019:TRP:HZ3	2.05	0.58
1:B:4738:ALA:O	1:B:4742:GLY:CA	2.51	0.58
1:B:4832:HIS:HD1	1:B:4833:ASN:N	2.00	0.58
1:C:1246:GLU:C	1:C:1601:MET:O	2.46	0.58
1:C:1289:LEU:CB	1:C:1552:VAL:O	2.52	0.58
1:D:667:MET:O	1:D:790:ARG:N	2.29	0.58
1:D:4150:LEU:HD12	1:D:4150:LEU:C	2.29	0.58
1:D:4984:ASN:O	1:D:4986:ALA:N	2.36	0.58
1:A:317:ARG:O	1:A:346:CYS:CB	2.52	0.58
1:A:635:THR:CA	1:A:1639:LEU:CB	2.81	0.58
1:A:4182:GLU:OE1	1:A:4988:TYR:HB2	2.03	0.58
1:A:4995:LEU:HD12	1:A:5011:TRP:CE3	2.30	0.58
1:B:317:ARG:O	1:B:346:CYS:CB	2.52	0.58
1:C:2454:ARG:HD2	1:C:2454:ARG:C	2.28	0.58
1:C:2501:SER:O	1:C:2505:PHE:N	2.28	0.58
1:C:4889:VAL:HG23	1:C:4890:GLY:N	2.18	0.58
1:D:379:HIS:H	1:D:381:GLU:N	2.01	0.58
1:D:1451:GLY:O	1:D:1452:TRP:HD1	1.86	0.58
1:D:4577:LEU:CD1	1:D:4807:PHE:HA	2.34	0.58
1:B:243:ARG:O	1:B:300:VAL:CA	2.50	0.58
1:B:460:GLN:C	1:B:462:GLU:N	2.34	0.58
1:B:1164:LEU:C	1:B:1166:GLY:N	2.61	0.58
1:B:4154:VAL:HG12	1:B:4156:HIS:O	2.03	0.58
1:B:4728:HIS:O	1:B:4737:ILE:CD1	2.46	0.58
1:C:20:VAL:N	1:C:67:PHE:CB	2.64	0.58
1:C:1074:ILE:HA	1:C:1193:SER:HA	1.85	0.58
1:C:1739:THR:O	1:C:1742:THR:N	2.36	0.58
1:C:4125:PHE:O	1:C:4126:GLU:C	2.46	0.58
1:C:4863:TYR:CG	1:C:4864:ASN:N	2.70	0.58
1:D:2451:LEU:C	1:D:2454:ARG:H	2.12	0.58
1:D:3795:SER:HA	1:D:3880:PHE:HE2	1.69	0.58
1:D:4978:HIS:NE2	1:D:4983:HIS:CG	2.62	0.58
1:A:262:LEU:CB	1:A:263:GLU:CA	2.81	0.58
1:A:596:ASN:C	1:A:598:LYS:N	2.62	0.58
1:A:840:VAL:CB	1:A:1199:VAL:HA	2.33	0.58
1:A:2191:PHE:CD1	1:A:2191:PHE:C	2.82	0.58
1:A:3795:SER:HA	1:A:3880:PHE:HE2	1.69	0.58
1:B:1074:ILE:HA	1:B:1193:SER:HA	1.85	0.58
1:B:1289:LEU:CB	1:B:1552:VAL:O	2.52	0.58
1:C:73:LEU:O	1:C:105:HIS:C	2.46	0.58
1:C:3810:ALA:O	1:C:3811:GLU:C	2.47	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4927:ILE:HD11	1:C:4928:LEU:CD2	2.33	0.58
1:C:4984:ASN:O	1:C:4986:ALA:N	2.36	0.58
1:C:5017:ARG:CB	1:C:5019:TRP:NE1	2.61	0.58
1:D:112:ALA:HA	1:D:115:ARG:N	2.17	0.58
1:D:1246:GLU:C	1:D:1601:MET:O	2.46	0.58
1:D:2105:TRP:CE3	1:D:2106:ALA:CA	2.87	0.58
1:D:2767:ALA:O	1:D:2771:ILE:CB	2.51	0.58
1:D:4197:ILE:HG23	1:D:4197:ILE:O	2.02	0.58
1:D:4927:ILE:CD1	1:D:4928:LEU:HD22	2.33	0.58
1:A:263:GLU:O	1:A:280:LEU:CB	2.52	0.58
1:A:1451:GLY:O	1:A:1452:TRP:HD1	1.86	0.58
1:A:1739:THR:O	1:A:1742:THR:N	2.36	0.58
1:A:2914:LYS:O	1:A:2917:ALA:HB3	2.03	0.58
1:A:4088:ILE:C	1:A:4089:SER:O	2.44	0.58
1:A:4577:LEU:CD1	1:A:4807:PHE:HA	2.34	0.58
1:A:4682:GLU:CB	1:A:4683:PHE:CD1	2.86	0.58
1:A:4773:VAL:O	1:A:4776:GLN:N	2.37	0.58
1:B:635:THR:CA	1:B:1639:LEU:CB	2.81	0.58
1:B:840:VAL:CB	1:B:1199:VAL:HA	2.33	0.58
1:B:4774:LYS:HA	1:B:4777:ILE:HG22	1.85	0.58
1:B:4800:LEU:CD2	1:B:4801:LEU:HD23	2.34	0.58
1:C:2191:PHE:CD1	1:C:2191:PHE:C	2.82	0.58
1:C:2451:LEU:C	1:C:2454:ARG:H	2.12	0.58
1:C:3795:SER:HA	1:C:3880:PHE:HE2	1.69	0.58
1:C:4774:LYS:HA	1:C:4777:ILE:HG22	1.85	0.58
1:D:3934:TYR:CE1	1:D:3935:TRP:HZ3	2.19	0.58
1:D:3967:GLU:HA	1:D:3970:GLN:CB	2.33	0.58
1:D:4154:VAL:HG12	1:D:4156:HIS:O	2.03	0.58
1:A:379:HIS:N	1:A:380:GLN:HA	2.19	0.57
1:A:1289:LEU:CB	1:A:1552:VAL:O	2.52	0.57
1:A:4115:SER:CA	1:A:4128:PHE:CE2	2.76	0.57
1:A:4891:VAL:HG11	1:D:4918:ILE:CB	2.32	0.57
1:A:4891:VAL:HG21	1:D:4918:ILE:CB	2.31	0.57
1:B:262:LEU:CB	1:B:263:GLU:CA	2.81	0.57
1:B:2105:TRP:CE3	1:B:2106:ALA:CA	2.87	0.57
1:B:2914:LYS:O	1:B:2917:ALA:HB3	2.03	0.57
1:B:4195:PHE:CD2	1:B:4991:PHE:CD2	2.92	0.57
1:B:4773:VAL:O	1:B:4774:LYS:C	2.47	0.57
1:B:4774:LYS:HA	1:B:4777:ILE:CG2	2.34	0.57
1:B:4927:ILE:CD1	1:B:4928:LEU:HD22	2.33	0.57
1:C:4243:PHE:CD2	1:C:4671:PHE:CE1	2.89	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4800:LEU:CD2	1:C:4801:LEU:HD23	2.34	0.57
1:D:317:ARG:O	1:D:346:CYS:CB	2.52	0.57
1:D:509:GLU:O	1:D:510:GLU:C	2.46	0.57
1:D:679:ALA:O	1:D:680:THR:O	2.22	0.57
1:A:118:LEU:CA	1:A:137:LEU:HA	2.25	0.57
1:A:1687:SER:CA	1:A:1688:HIS:CB	2.83	0.57
1:A:2105:TRP:CE3	1:A:2106:ALA:CA	2.87	0.57
1:B:679:ALA:O	1:B:680:THR:O	2.22	0.57
1:B:1124:PHE:HD1	1:B:1125:ASN:O	1.87	0.57
1:B:2105:TRP:CE3	1:B:2106:ALA:N	2.73	0.57
1:B:4984:ASN:O	1:B:4986:ALA:N	2.36	0.57
1:C:1273:ALA:CB	1:C:1274:HIS:HA	2.18	0.57
1:C:5018:CYS:N	1:C:5019:TRP:CD1	2.72	0.57
1:D:5021:PHE:C	1:D:5022:PHE:O	2.28	0.57
1:A:1081:TYR:OH	1:A:1235:THR:N	2.21	0.57
1:A:4180:ARG:CA	1:A:4181:ILE:CG1	2.82	0.57
1:A:4936:ILE:HD13	1:D:4930:ALA:CB	2.32	0.57
1:B:379:HIS:H	1:B:381:GLU:N	2.01	0.57
1:B:1526:LEU:HA	1:B:1541:GLN:CB	2.35	0.57
1:B:2191:PHE:CD1	1:B:2191:PHE:C	2.82	0.57
1:C:317:ARG:O	1:C:346:CYS:CB	2.52	0.57
1:C:509:GLU:O	1:C:510:GLU:C	2.46	0.57
1:C:707:VAL:HA	1:C:725:HIS:CB	2.34	0.57
1:C:4829:SER:CB	1:C:4940:PHE:CE1	2.88	0.57
1:D:707:VAL:HA	1:D:725:HIS:CB	2.33	0.57
1:D:1088:TRP:N	1:D:1088:TRP:CD1	2.72	0.57
1:D:1124:PHE:HD1	1:D:1125:ASN:O	1.87	0.57
1:D:2538:THR:O	1:D:2540:THR:N	2.33	0.57
1:D:4774:LYS:HA	1:D:4777:ILE:CG2	2.34	0.57
1:D:5016:GLU:C	1:D:5017:ARG:O	2.42	0.57
1:A:1088:TRP:N	1:A:1088:TRP:CD1	2.72	0.57
1:A:3679:LYS:C	1:A:3698:LEU:CB	2.78	0.57
1:A:4125:PHE:O	1:A:4126:GLU:C	2.46	0.57
1:A:5018:CYS:N	1:A:5019:TRP:CD1	2.72	0.57
1:B:707:VAL:HA	1:B:725:HIS:CB	2.33	0.57
1:B:3679:LYS:C	1:B:3698:LEU:CB	2.78	0.57
1:B:4577:LEU:CD1	1:B:4807:PHE:HA	2.34	0.57
1:C:112:ALA:HA	1:C:115:ARG:N	2.17	0.57
1:C:379:HIS:N	1:C:380:GLN:HA	2.19	0.57
1:C:2105:TRP:CE3	1:C:2106:ALA:N	2.73	0.57
1:C:2121:PHE:CE2	1:C:3702:VAL:CB	2.75	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3833:GLN:HE21	1:C:3833:GLN:HA	1.67	0.57
1:C:3987:ASP:CB	1:C:3988:ALA:CB	2.81	0.57
1:C:4034:ASN:O	1:C:4153:HIS:HE1	1.87	0.57
1:C:4738:ALA:HA	1:C:4742:GLY:CA	2.30	0.57
1:C:4738:ALA:O	1:C:4742:GLY:CA	2.51	0.57
1:D:263:GLU:O	1:D:280:LEU:CB	2.52	0.57
1:D:546:TRP:CE3	1:D:547:VAL:N	2.73	0.57
1:D:1526:LEU:HA	1:D:1541:GLN:CB	2.35	0.57
1:D:2200:ALA:C	1:D:2202:GLY:N	2.58	0.57
1:D:4856:PHE:CD1	1:D:4857:ASN:ND2	2.73	0.57
1:A:4683:PHE:CD1	1:A:4683:PHE:N	2.73	0.57
1:A:4783:ILE:CD1	1:A:4789:PHE:CZ	2.88	0.57
1:A:4927:ILE:CD1	1:A:4928:LEU:HD22	2.33	0.57
1:B:681:HIS:O	1:B:784:SER:N	2.37	0.57
1:B:4556:SER:O	1:B:4559:PHE:HB3	2.05	0.57
1:C:515:TRP:CE3	1:C:516:LYS:N	2.73	0.57
1:C:2191:PHE:HD1	1:C:2192:TYR:HD1	1.50	0.57
1:C:2538:THR:O	1:C:2540:THR:N	2.33	0.57
1:D:1229:ASN:CA	1:D:1827:ARG:CB	2.81	0.57
1:D:4803:HIS:CD2	1:D:4804:TYR:N	2.72	0.57
1:D:4944:ARG:HD2	1:D:4944:ARG:C	2.30	0.57
1:D:5018:CYS:N	1:D:5019:TRP:CD1	2.72	0.57
1:A:829:TYR:O	1:A:839:LEU:HA	2.03	0.57
1:A:1124:PHE:HD1	1:A:1125:ASN:O	1.87	0.57
1:A:1828:ASP:CB	1:A:1829:PRO:CA	2.82	0.57
1:B:2529:ASP:O	1:B:2530:MET:C	2.47	0.57
1:B:4701:TRP:O	1:B:4701:TRP:HD1	1.88	0.57
1:B:5018:CYS:N	1:B:5019:TRP:CD1	2.72	0.57
1:C:4180:ARG:CA	1:C:4181:ILE:CG1	2.82	0.57
1:C:4235:VAL:CB	1:C:5019:TRP:HZ3	2.04	0.57
1:C:4701:TRP:O	1:C:4701:TRP:HD1	1.88	0.57
1:C:4856:PHE:CD1	1:C:4857:ASN:ND2	2.73	0.57
1:D:1687:SER:CA	1:D:1688:HIS:CB	2.83	0.57
1:D:1748:PHE:N	1:D:1748:PHE:CD1	2.73	0.57
1:D:4644:TRP:CE3	1:D:4645:CYS:N	2.73	0.57
1:D:4662:ASN:HD21	1:D:4789:PHE:HB2	1.69	0.57
1:A:707:VAL:HA	1:A:725:HIS:CB	2.34	0.57
1:A:4141:PHE:CB	1:A:4174:PHE:CE2	2.88	0.57
1:A:4738:ALA:HA	1:A:4742:GLY:CA	2.30	0.57
1:B:1748:PHE:CD1	1:B:1748:PHE:N	2.73	0.57
1:B:3758:MET:O	1:B:3760:LYS:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4644:TRP:CE3	1:B:4645:CYS:N	2.73	0.57
1:B:4803:HIS:CD2	1:B:4804:TYR:H	2.23	0.57
1:B:4960:ILE:CB	1:B:4983:HIS:CG	2.88	0.57
1:C:1126:GLY:CA	1:C:1143:TRP:CB	2.83	0.57
1:C:3967:GLU:HA	1:C:3970:GLN:CB	2.33	0.57
1:C:4577:LEU:CD1	1:C:4807:PHE:HA	2.34	0.57
1:D:1074:ILE:HA	1:D:1193:SER:HA	1.85	0.57
1:D:2105:TRP:CE3	1:D:2106:ALA:N	2.73	0.57
1:D:2191:PHE:CD1	1:D:2191:PHE:C	2.82	0.57
1:D:4651:THR:HG1	1:D:4799:SER:CB	2.18	0.57
1:D:4803:HIS:CD2	1:D:4804:TYR:H	2.23	0.57
1:A:25:SER:O	1:A:26:ALA:C	2.47	0.57
1:A:4195:PHE:CZ	1:A:4991:PHE:CA	2.86	0.57
1:A:4794:TRP:CE3	1:A:4795:TYR:N	2.73	0.57
1:A:4800:LEU:CD2	1:A:4801:LEU:HD23	2.34	0.57
1:B:263:GLU:O	1:B:280:LEU:CB	2.52	0.57
1:B:596:ASN:C	1:B:598:LYS:N	2.62	0.57
1:B:1126:GLY:CA	1:B:1143:TRP:CB	2.83	0.57
1:B:3935:TRP:HA	1:B:3935:TRP:HE3	1.68	0.57
1:B:4803:HIS:CD2	1:B:4804:TYR:N	2.73	0.57
1:C:263:GLU:O	1:C:280:LEU:CB	2.52	0.57
1:C:546:TRP:CE3	1:C:547:VAL:N	2.73	0.57
1:C:2529:ASP:O	1:C:2530:MET:C	2.47	0.57
1:C:3758:MET:O	1:C:3760:LYS:N	2.38	0.57
1:C:4794:TRP:CE3	1:C:4795:TYR:HA	2.40	0.57
1:C:4803:HIS:CD2	1:C:4804:TYR:H	2.23	0.57
1:C:4803:HIS:CD2	1:C:4804:TYR:N	2.72	0.57
1:C:4856:PHE:CE1	1:C:4857:ASN:ND2	2.73	0.57
1:D:73:LEU:O	1:D:105:HIS:C	2.46	0.57
1:D:404:ILE:O	1:D:408:ALA:HB2	2.05	0.57
1:D:2529:ASP:O	1:D:2530:MET:C	2.47	0.57
1:D:4125:PHE:O	1:D:4126:GLU:C	2.46	0.57
1:D:4556:SER:O	1:D:4559:PHE:HB3	2.05	0.57
1:D:4683:PHE:CD1	1:D:4683:PHE:N	2.73	0.57
1:A:1074:ILE:HA	1:A:1193:SER:HA	1.85	0.57
1:A:1748:PHE:N	1:A:1748:PHE:CD1	2.73	0.57
1:A:4856:PHE:CE1	1:A:4857:ASN:ND2	2.73	0.57
1:A:4931:ILE:CG2	1:B:4936:ILE:HD11	2.35	0.57
1:B:546:TRP:CE3	1:B:547:VAL:N	2.73	0.57
1:B:1587:PRO:O	1:B:1588:ALA:HB3	2.05	0.57
1:B:1718:ILE:CA	1:B:1720:LEU:CB	2.83	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4034:ASN:O	1:B:4153:HIS:HE1	1.87	0.57
1:B:4794:TRP:CE3	1:B:4795:TYR:HA	2.40	0.57
1:C:3029:GLY:O	1:C:3032:SER:N	2.38	0.57
1:C:4774:LYS:HA	1:C:4777:ILE:CG2	2.34	0.57
1:C:4794:TRP:CE3	1:C:4795:TYR:N	2.73	0.57
1:C:4931:ILE:CG2	1:D:4936:ILE:HD11	2.34	0.57
1:D:2538:THR:O	1:D:2539:ALA:HB3	2.05	0.57
1:D:3029:GLY:O	1:D:3032:SER:N	2.38	0.57
1:D:4794:TRP:CE3	1:D:4795:TYR:HA	2.40	0.57
1:D:4800:LEU:CD2	1:D:4801:LEU:HD23	2.34	0.57
1:D:4856:PHE:CE1	1:D:4857:ASN:ND2	2.73	0.57
1:A:515:TRP:CE3	1:A:516:LYS:N	2.73	0.57
1:A:679:ALA:O	1:A:680:THR:O	2.22	0.57
1:A:1526:LEU:HA	1:A:1541:GLN:CB	2.35	0.57
1:A:2105:TRP:CE3	1:A:2106:ALA:N	2.73	0.57
1:A:2538:THR:O	1:A:2539:ALA:HB3	2.05	0.57
1:A:3029:GLY:O	1:A:3032:SER:N	2.38	0.57
1:A:3758:MET:O	1:A:3760:LYS:N	2.38	0.57
1:A:4644:TRP:CE3	1:A:4645:CYS:N	2.73	0.57
1:A:4662:ASN:HD21	1:A:4789:PHE:HB2	1.69	0.57
1:A:4856:PHE:CD1	1:A:4857:ASN:ND2	2.73	0.57
1:A:4891:VAL:HG11	1:D:4918:ILE:HA	0.67	0.57
1:B:112:ALA:HA	1:B:115:ARG:N	2.17	0.57
1:B:515:TRP:CE3	1:B:516:LYS:N	2.73	0.57
1:B:1088:TRP:N	1:B:1088:TRP:CD1	2.72	0.57
1:B:1285:GLU:CA	1:B:1286:MET:CB	2.83	0.57
1:B:3795:SER:HA	1:B:3880:PHE:HE2	1.69	0.57
1:B:4856:PHE:CE1	1:B:4857:ASN:ND2	2.73	0.57
1:B:4982:GLU:CB	1:B:4983:HIS:CB	2.83	0.57
1:C:1748:PHE:N	1:C:1748:PHE:CD1	2.73	0.57
1:C:4556:SER:O	1:C:4559:PHE:HB3	2.05	0.57
1:D:483:MET:C	1:D:485:SER:N	2.63	0.57
1:D:3935:TRP:HA	1:D:3935:TRP:HE3	1.68	0.57
1:D:4701:TRP:HD1	1:D:4701:TRP:O	1.88	0.57
1:A:112:ALA:HA	1:A:115:ARG:N	2.17	0.56
1:A:3933:PHE:CZ	1:A:3951:PHE:CE2	2.85	0.56
1:A:4774:LYS:HA	1:A:4777:ILE:CG2	2.34	0.56
1:A:4794:TRP:CE3	1:A:4795:TYR:HA	2.40	0.56
1:B:3833:GLN:HE21	1:B:3833:GLN:HA	1.67	0.56
1:B:3937:TYR:O	1:B:3939:GLY:N	2.33	0.56
1:B:4738:ALA:HA	1:B:4742:GLY:CA	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4968:PHE:CD2	1:B:4978:HIS:HB3	2.40	0.56
1:C:404:ILE:O	1:C:408:ALA:HB2	2.05	0.56
1:C:4556:SER:OG	1:C:4557:ARG:N	2.26	0.56
1:C:4662:ASN:HD21	1:C:4789:PHE:HB2	1.69	0.56
1:C:4668:LEU:HD12	1:C:4668:LEU:C	2.30	0.56
1:C:4982:GLU:CB	1:C:4983:HIS:CB	2.83	0.56
1:D:24:CYS:N	1:D:35:LEU:O	2.32	0.56
1:D:515:TRP:CE3	1:D:516:LYS:N	2.73	0.56
1:D:3679:LYS:C	1:D:3698:LEU:CB	2.78	0.56
1:D:3810:ALA:O	1:D:3811:GLU:C	2.47	0.56
1:D:4773:VAL:O	1:D:4774:LYS:C	2.47	0.56
1:D:4773:VAL:O	1:D:4776:GLN:N	2.37	0.56
1:D:4794:TRP:CE3	1:D:4795:TYR:N	2.73	0.56
1:A:4803:HIS:CD2	1:A:4804:TYR:H	2.23	0.56
1:A:4803:HIS:CD2	1:A:4804:TYR:N	2.72	0.56
1:A:4960:ILE:CB	1:A:4983:HIS:CG	2.88	0.56
1:B:4180:ARG:CA	1:B:4181:ILE:CG1	2.82	0.56
1:B:4632:LEU:CA	1:B:4633:GLU:CB	2.83	0.56
1:B:4856:PHE:CD1	1:B:4857:ASN:ND2	2.73	0.56
1:C:2105:TRP:CE3	1:C:2106:ALA:CA	2.87	0.56
1:C:4638:TYR:C	1:C:4641:PRO:HD2	2.30	0.56
1:C:4725:LEU:O	1:C:4737:ILE:HD13	2.06	0.56
1:A:151:HIS:O	1:A:152:PRO:C	2.46	0.56
1:A:546:TRP:CE3	1:A:547:VAL:N	2.73	0.56
1:A:667:MET:O	1:A:790:ARG:N	2.29	0.56
1:B:2538:THR:O	1:B:2539:ALA:HB3	2.05	0.56
1:B:3810:ALA:O	1:B:3811:GLU:C	2.47	0.56
1:B:4150:LEU:HD12	1:B:4150:LEU:C	2.29	0.56
1:B:4638:TYR:C	1:B:4641:PRO:HD2	2.30	0.56
1:B:4683:PHE:CD1	1:B:4683:PHE:N	2.73	0.56
1:B:4794:TRP:CE3	1:B:4795:TYR:N	2.73	0.56
1:B:4945:ASP:O	1:B:4948:GLU:HG3	2.05	0.56
1:B:4957:LYS:C	1:B:4964:GLY:HA3	2.30	0.56
1:C:679:ALA:O	1:C:680:THR:O	2.22	0.56
1:C:1515:VAL:CB	1:C:1529:PHE:C	2.77	0.56
1:C:1587:PRO:O	1:C:1588:ALA:HB3	2.05	0.56
1:C:3679:LYS:C	1:C:3698:LEU:CB	2.78	0.56
1:C:4644:TRP:CE3	1:C:4645:CYS:N	2.73	0.56
1:C:4682:GLU:HA	1:C:4724:VAL:CG1	2.36	0.56
1:C:4773:VAL:O	1:C:4776:GLN:N	2.37	0.56
1:C:4960:ILE:CB	1:C:4983:HIS:CG	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:176:SER:CA	1:D:177:GLU:CB	2.84	0.56
1:D:1718:ILE:CA	1:D:1720:LEU:CB	2.83	0.56
1:D:3758:MET:O	1:D:3760:LYS:N	2.38	0.56
1:D:4180:ARG:CA	1:D:4181:ILE:CG1	2.82	0.56
1:D:4183:ILE:HG22	1:D:4190:ILE:C	2.30	0.56
1:D:4577:LEU:HD13	1:D:4807:PHE:HA	1.87	0.56
1:D:4960:ILE:CB	1:D:4983:HIS:CG	2.88	0.56
1:A:77:ALA:N	1:B:3935:TRP:CD1	2.68	0.56
1:A:176:SER:CA	1:A:177:GLU:CB	2.84	0.56
1:A:4556:SER:O	1:A:4559:PHE:HB3	2.05	0.56
1:A:4632:LEU:CA	1:A:4633:GLU:CB	2.83	0.56
1:A:4725:LEU:O	1:A:4737:ILE:HD13	2.06	0.56
1:A:4931:ILE:HG22	1:B:4936:ILE:HD11	1.87	0.56
1:B:4662:ASN:HD21	1:B:4789:PHE:HB2	1.69	0.56
1:B:4773:VAL:O	1:B:4776:GLN:N	2.37	0.56
1:C:1229:ASN:CA	1:C:1827:ARG:CB	2.81	0.56
1:C:1718:ILE:CA	1:C:1720:LEU:CB	2.83	0.56
1:C:1803:PRO:O	1:C:1807:LEU:N	2.37	0.56
1:C:2592:GLY:H	1:C:2595:LEU:N	1.93	0.56
1:C:4783:ILE:CD1	1:C:4789:PHE:CZ	2.88	0.56
1:C:4835:LYS:N	1:C:4836:GLN:CB	2.69	0.56
1:C:4918:ILE:HA	1:D:4891:VAL:HG11	0.66	0.56
1:D:1515:VAL:CB	1:D:1529:PHE:C	2.77	0.56
1:D:4243:PHE:CD2	1:D:4671:PHE:CD1	2.84	0.56
1:A:1164:LEU:C	1:A:1166:GLY:N	2.61	0.56
1:A:4577:LEU:HD13	1:A:4807:PHE:HA	1.87	0.56
1:A:4664:LEU:HD13	1:A:4665:LYS:N	2.21	0.56
1:A:4738:ALA:O	1:A:4742:GLY:CA	2.51	0.56
1:A:4997:ASN:OD1	1:A:4997:ASN:N	2.39	0.56
1:B:1687:SER:CA	1:B:1688:HIS:CB	2.83	0.56
1:C:173:SER:CA	1:C:174:VAL:CB	2.84	0.56
1:C:4141:PHE:CB	1:C:4174:PHE:CE2	2.88	0.56
1:C:4849:TYR:CD1	1:C:4849:TYR:C	2.84	0.56
1:D:1126:GLY:CA	1:D:1143:TRP:CB	2.83	0.56
1:D:1286:MET:CB	1:D:1287:LEU:CA	2.84	0.56
1:D:4089:SER:CA	1:D:4121:GLU:O	2.54	0.56
1:D:4141:PHE:CB	1:D:4174:PHE:CE2	2.88	0.56
1:D:4195:PHE:CD2	1:D:4991:PHE:CD2	2.92	0.56
1:D:4725:LEU:O	1:D:4737:ILE:HD13	2.06	0.56
1:A:485:SER:C	1:A:487:VAL:N	2.63	0.56
1:A:1126:GLY:CA	1:A:1143:TRP:CB	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4243:PHE:CD2	1:A:4671:PHE:CE1	2.89	0.56
1:A:4664:LEU:HD22	1:A:4664:LEU:C	2.30	0.56
1:A:4849:TYR:CD1	1:A:4849:TYR:C	2.84	0.56
1:B:667:MET:O	1:B:790:ARG:N	2.29	0.56
1:B:3029:GLY:O	1:B:3032:SER:N	2.38	0.56
1:B:4794:TRP:HE3	1:B:4795:TYR:N	2.04	0.56
1:B:4849:TYR:C	1:B:4849:TYR:CD1	2.84	0.56
1:C:789:VAL:O	1:C:1627:ALA:HA	2.03	0.56
1:C:1526:LEU:HA	1:C:1541:GLN:CB	2.35	0.56
1:C:4195:PHE:CD2	1:C:4991:PHE:CD2	2.92	0.56
1:C:4773:VAL:O	1:C:4774:LYS:C	2.47	0.56
1:D:173:SER:CA	1:D:174:VAL:CB	2.84	0.56
1:D:1164:LEU:C	1:D:1166:GLY:N	2.61	0.56
1:D:4664:LEU:HD22	1:D:4664:LEU:C	2.30	0.56
1:D:4682:GLU:HA	1:D:4724:VAL:CG1	2.36	0.56
1:D:4783:ILE:CD1	1:D:4789:PHE:CZ	2.88	0.56
1:D:4835:LYS:N	1:D:4836:GLN:CB	2.69	0.56
1:A:501:ALA:HB3	1:A:504:ALA:N	2.21	0.56
1:A:1286:MET:CB	1:A:1287:LEU:CA	2.84	0.56
1:A:4140:GLY:C	1:A:4174:PHE:CE2	2.84	0.56
1:A:4682:GLU:HA	1:A:4724:VAL:CG1	2.36	0.56
1:B:23:GLN:HA	1:B:36:CYS:HA	1.88	0.56
1:B:1286:MET:CB	1:B:1287:LEU:CA	2.84	0.56
1:B:1828:ASP:CB	1:B:1829:PRO:CA	2.82	0.56
1:B:4682:GLU:HA	1:B:4724:VAL:CG1	2.36	0.56
1:B:4783:ILE:CD1	1:B:4789:PHE:CZ	2.88	0.56
1:B:4918:ILE:CB	1:C:4891:VAL:HG11	2.32	0.56
1:C:147:TRP:O	1:C:174:VAL:CB	2.54	0.56
1:D:4088:ILE:C	1:D:4089:SER:O	2.44	0.56
1:D:4632:LEU:CA	1:D:4633:GLU:CB	2.83	0.56
1:A:509:GLU:C	1:A:511:ALA:H	2.13	0.56
1:A:4638:TYR:C	1:A:4641:PRO:HD2	2.30	0.56
1:A:4701:TRP:HD1	1:A:4701:TRP:O	1.88	0.56
1:A:4794:TRP:HE3	1:A:4795:TYR:N	2.04	0.56
1:B:147:TRP:O	1:B:174:VAL:CB	2.54	0.56
1:B:483:MET:C	1:B:485:SER:N	2.63	0.56
1:B:2463:LEU:HA	1:B:2464:ASP:CB	2.36	0.56
1:B:4664:LEU:HD13	1:B:4665:LYS:N	2.21	0.56
1:B:4717:ASP:O	1:B:4718:LYS:CB	2.49	0.56
1:B:4935:LEU:HD21	1:C:4940:PHE:CE2	2.32	0.56
1:C:73:LEU:N	1:C:106:ALA:H	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1088:TRP:N	1:C:1088:TRP:CD1	2.72	0.56
1:C:3933:PHE:C	1:C:3933:PHE:CD1	2.84	0.56
1:C:4150:LEU:HD12	1:C:4150:LEU:C	2.29	0.56
1:C:5031:GLN:O	1:C:5032:TYR:HD1	1.89	0.56
1:D:509:GLU:C	1:D:511:ALA:H	2.13	0.56
1:D:2755:ILE:O	1:D:2759:ALA:CB	2.54	0.56
1:A:23:GLN:HA	1:A:36:CYS:HA	1.88	0.56
1:A:535:ALA:O	1:A:538:ALA:N	2.39	0.56
1:A:681:HIS:O	1:A:784:SER:N	2.37	0.56
1:A:1229:ASN:CA	1:A:1827:ARG:CB	2.81	0.56
1:A:1290:ARG:HA	1:A:1551:ALA:CB	2.34	0.56
1:A:1718:ILE:CA	1:A:1720:LEU:CB	2.83	0.56
1:A:4656:LEU:O	1:A:4659:ILE:HG22	2.06	0.56
1:A:4957:LYS:C	1:A:4964:GLY:HA3	2.30	0.56
1:B:173:SER:CA	1:B:174:VAL:CB	2.84	0.56
1:B:4670:ILE:HG23	1:B:4671:PHE:N	2.21	0.56
1:B:4835:LYS:N	1:B:4836:GLN:CB	2.69	0.56
1:B:4997:ASN:OD1	1:B:4997:ASN:N	2.39	0.56
1:B:5018:CYS:H	1:B:5019:TRP:CD1	2.24	0.56
1:B:5031:GLN:O	1:B:5032:TYR:HD1	1.89	0.56
1:C:291:LEU:O	1:C:292:ALA:HB2	2.06	0.56
1:C:341:TYR:C	1:C:343:GLU:H	2.14	0.56
1:C:1274:HIS:O	1:C:1564:PHE:O	2.24	0.56
1:C:4651:THR:HG1	1:C:4799:SER:CB	2.18	0.56
1:C:4664:LEU:HD13	1:C:4665:LYS:N	2.21	0.56
1:C:4975:PHE:CD1	1:C:4975:PHE:C	2.84	0.56
1:D:118:LEU:CA	1:D:137:LEU:HA	2.25	0.56
1:D:1274:HIS:O	1:D:1564:PHE:O	2.24	0.56
1:D:3825:GLU:CA	1:D:3826:VAL:CB	2.84	0.56
1:D:4638:TYR:C	1:D:4641:PRO:HD2	2.30	0.56
1:D:4664:LEU:HD13	1:D:4665:LYS:N	2.21	0.56
1:D:4849:TYR:CD1	1:D:4849:TYR:C	2.84	0.56
1:D:4957:LYS:C	1:D:4964:GLY:HA3	2.30	0.56
1:A:147:TRP:O	1:A:174:VAL:CB	2.54	0.56
1:A:173:SER:CA	1:A:174:VAL:CB	2.84	0.56
1:A:2529:ASP:O	1:A:2530:MET:C	2.47	0.56
1:A:4835:LYS:N	1:A:4836:GLN:CB	2.69	0.56
1:A:4975:PHE:CD1	1:A:4975:PHE:C	2.84	0.56
1:B:73:LEU:N	1:B:106:ALA:H	2.04	0.56
1:B:404:ILE:O	1:B:408:ALA:HB3	2.06	0.56
1:B:1803:PRO:O	1:B:1807:LEU:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4577:LEU:HD13	1:B:4807:PHE:HA	1.87	0.56
1:C:176:SER:CA	1:C:177:GLU:CB	2.84	0.56
1:C:1213:PHE:CA	1:C:1214:PHE:CB	2.84	0.56
1:D:23:GLN:HA	1:D:36:CYS:HA	1.88	0.56
1:D:245:VAL:C	1:D:247:TYR:H	2.05	0.56
1:D:1563:GLN:C	1:D:1564:PHE:HD1	2.14	0.56
1:D:4650:HIS:C	1:D:4650:HIS:CD2	2.84	0.56
1:A:483:MET:C	1:A:485:SER:N	2.63	0.55
1:A:1081:TYR:O	1:A:1082:THR:C	2.49	0.55
1:A:4650:HIS:C	1:A:4650:HIS:CD2	2.84	0.55
1:A:4670:ILE:HG23	1:A:4671:PHE:N	2.21	0.55
1:B:25:SER:O	1:B:26:ALA:C	2.47	0.55
1:B:404:ILE:O	1:B:408:ALA:HB2	2.05	0.55
1:B:1297:PHE:CG	1:B:1297:PHE:N	2.73	0.55
1:B:2755:ILE:O	1:B:2759:ALA:CB	2.54	0.55
1:B:3933:PHE:CD1	1:B:3933:PHE:C	2.84	0.55
1:B:4725:LEU:O	1:B:4737:ILE:HD13	2.06	0.55
1:C:23:GLN:HA	1:C:36:CYS:HA	1.88	0.55
1:C:1285:GLU:CA	1:C:1286:MET:CB	2.83	0.55
1:C:1286:MET:CB	1:C:1287:LEU:CA	2.84	0.55
1:C:1687:SER:CA	1:C:1688:HIS:CB	2.83	0.55
1:C:2463:LEU:CA	1:C:2464:ASP:CB	2.84	0.55
1:C:3935:TRP:HA	1:C:3935:TRP:HE3	1.68	0.55
1:C:4183:ILE:HG22	1:C:4190:ILE:C	2.30	0.55
1:C:4632:LEU:CA	1:C:4633:GLU:CB	2.83	0.55
1:C:4650:HIS:C	1:C:4650:HIS:CD2	2.84	0.55
1:C:4931:ILE:HG22	1:D:4936:ILE:HD11	1.87	0.55
1:D:1273:ALA:CB	1:D:1274:HIS:HA	2.18	0.55
1:A:439:GLU:H	1:A:442:ILE:H	1.54	0.55
1:A:1274:HIS:O	1:A:1564:PHE:O	2.24	0.55
1:A:3880:PHE:C	1:A:3880:PHE:CD1	2.85	0.55
1:B:535:ALA:O	1:B:538:ALA:N	2.39	0.55
1:B:1274:HIS:O	1:B:1564:PHE:O	2.24	0.55
1:B:2463:LEU:CA	1:B:2464:ASP:CB	2.84	0.55
1:C:596:ASN:C	1:C:598:LYS:N	2.62	0.55
1:C:4978:HIS:NE2	1:C:4983:HIS:CG	2.62	0.55
1:D:1124:PHE:CA	1:D:1131:ARG:CA	2.52	0.55
1:D:2362:GLU:CA	1:D:2363:CYS:CB	2.85	0.55
1:D:4556:SER:O	1:D:4559:PHE:N	2.40	0.55
1:D:5031:GLN:O	1:D:5032:TYR:HD1	1.89	0.55
1:A:1213:PHE:CA	1:A:1214:PHE:CB	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1587:PRO:O	1:A:1588:ALA:HB3	2.05	0.55
1:A:2453:ILE:H	1:A:2456:ILE:H	1.55	0.55
1:A:2463:LEU:HA	1:A:2464:ASP:CB	2.36	0.55
1:A:4711:PHE:C	1:A:4711:PHE:CD1	2.85	0.55
1:A:4916:PHE:CD1	1:A:4916:PHE:C	2.84	0.55
1:B:176:SER:CA	1:B:177:GLU:CB	2.84	0.55
1:B:291:LEU:O	1:B:292:ALA:HB2	2.06	0.55
1:B:2168:VAL:CA	1:B:2169:GLN:CB	2.85	0.55
1:B:2201:LEU:CB	1:B:2205:GLU:CB	2.84	0.55
1:B:3880:PHE:CD1	1:B:3880:PHE:C	2.84	0.55
1:B:4664:LEU:HD22	1:B:4664:LEU:C	2.31	0.55
1:C:1288:PHE:C	1:C:1553:PHE:CA	2.69	0.55
1:C:2201:LEU:CB	1:C:2205:GLU:CB	2.84	0.55
1:C:4852:THR:HG1	1:C:4886:HIS:CG	2.23	0.55
1:C:4957:LYS:C	1:C:4964:GLY:HA3	2.30	0.55
1:D:147:TRP:O	1:D:174:VAL:CB	2.54	0.55
1:D:2453:ILE:H	1:D:2456:ILE:H	1.55	0.55
1:D:4575:PHE:HD1	1:D:4576:ILE:N	2.04	0.55
1:D:4794:TRP:HE3	1:D:4795:TYR:N	2.04	0.55
1:A:1093:GLU:O	1:A:1200:GLY:CA	2.55	0.55
1:A:1117:ALA:C	1:A:1134:LEU:CB	2.79	0.55
1:A:1285:GLU:CA	1:A:1286:MET:CB	2.83	0.55
1:A:1563:GLN:C	1:A:1564:PHE:HD1	2.14	0.55
1:A:2362:GLU:CA	1:A:2363:CYS:CB	2.85	0.55
1:A:4183:ILE:HG22	1:A:4190:ILE:C	2.30	0.55
1:A:4697:VAL:N	1:A:4699:GLY:H	1.94	0.55
1:A:4716:TRP:HE3	1:A:4716:TRP:O	1.90	0.55
1:B:24:CYS:N	1:B:35:LEU:O	2.32	0.55
1:B:73:LEU:O	1:B:105:HIS:C	2.46	0.55
1:B:1081:TYR:O	1:B:1082:THR:C	2.49	0.55
1:B:1093:GLU:O	1:B:1200:GLY:CA	2.55	0.55
1:B:1290:ARG:HA	1:B:1551:ALA:CB	2.34	0.55
1:B:4908:GLU:CB	1:B:4909:TYR:CA	2.85	0.55
1:C:501:ALA:HB3	1:C:504:ALA:N	2.21	0.55
1:C:2538:THR:O	1:C:2539:ALA:HB3	2.05	0.55
1:C:3937:TYR:O	1:C:3939:GLY:N	2.33	0.55
1:C:4577:LEU:HD13	1:C:4807:PHE:HA	1.87	0.55
1:D:1587:PRO:O	1:D:1588:ALA:HB3	2.05	0.55
1:D:1601:MET:CB	1:D:1602:PRO:CA	2.84	0.55
1:D:2463:LEU:HA	1:D:2464:ASP:CB	2.36	0.55
1:D:3880:PHE:C	1:D:3880:PHE:CD1	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4140:GLY:C	1:D:4174:PHE:CE2	2.84	0.55
1:D:4968:PHE:CD2	1:D:4978:HIS:HB3	2.40	0.55
1:A:24:CYS:N	1:A:35:LEU:O	2.32	0.55
1:A:245:VAL:C	1:A:247:TYR:H	2.05	0.55
1:A:291:LEU:O	1:A:292:ALA:HB2	2.06	0.55
1:A:2463:LEU:CA	1:A:2464:ASP:CB	2.84	0.55
1:A:5018:CYS:H	1:A:5019:TRP:CD1	2.24	0.55
1:B:151:HIS:O	1:B:152:PRO:C	2.46	0.55
1:B:1229:ASN:CA	1:B:1827:ARG:CB	2.81	0.55
1:B:1563:GLN:C	1:B:1564:PHE:HD1	2.14	0.55
1:B:2145:SER:CB	1:B:3645:PRO:CA	2.85	0.55
1:B:4183:ILE:HG22	1:B:4190:ILE:C	2.30	0.55
1:B:4556:SER:O	1:B:4559:PHE:N	2.40	0.55
1:B:4852:THR:HG1	1:B:4886:HIS:CG	2.23	0.55
1:B:4967:TYR:C	1:B:4967:TYR:CD1	2.85	0.55
1:C:168:ASP:CB	1:C:169:LEU:CA	2.82	0.55
1:C:348:VAL:CB	1:C:349:GLN:CA	2.85	0.55
1:C:1601:MET:CB	1:C:1602:PRO:CA	2.84	0.55
1:C:2200:ALA:O	1:C:2201:LEU:C	2.50	0.55
1:C:2463:LEU:HA	1:C:2464:ASP:CB	2.36	0.55
1:C:4115:SER:CA	1:C:4128:PHE:CE2	2.76	0.55
1:C:4850:LEU:O	1:C:4854:VAL:HG22	2.07	0.55
1:D:439:GLU:H	1:D:442:ILE:H	1.54	0.55
1:D:4195:PHE:CZ	1:D:4991:PHE:CB	2.65	0.55
1:D:4861:LYS:C	1:D:4862:PHE:CD1	2.84	0.55
1:A:173:SER:CB	1:A:174:VAL:CB	2.85	0.55
1:A:404:ILE:O	1:A:408:ALA:HB2	2.05	0.55
1:A:3902:TYR:CD1	1:A:3906:GLN:CB	2.90	0.55
1:A:4908:GLU:CB	1:A:4909:TYR:CB	2.85	0.55
1:B:173:SER:CB	1:B:174:VAL:CB	2.85	0.55
1:B:1933:GLU:O	1:B:1936:LYS:CB	2.55	0.55
1:B:3819:TYR:CD1	1:B:3819:TYR:C	2.85	0.55
1:B:4125:PHE:O	1:B:4126:GLU:C	2.46	0.55
1:B:4141:PHE:CB	1:B:4174:PHE:CE2	2.88	0.55
1:B:4650:HIS:C	1:B:4650:HIS:CD2	2.84	0.55
1:C:702:TRP:CD1	1:C:1640:HIS:CB	2.90	0.55
1:C:1081:TYR:O	1:C:1082:THR:C	2.49	0.55
1:C:1117:ALA:CA	1:C:1134:LEU:CB	2.85	0.55
1:C:4664:LEU:HD22	1:C:4664:LEU:C	2.30	0.55
1:C:4683:PHE:CD1	1:C:4683:PHE:N	2.73	0.55
1:C:4908:GLU:CB	1:C:4909:TYR:CA	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4916:PHE:CD1	1:C:4916:PHE:C	2.84	0.55
1:C:4968:PHE:CD2	1:C:4978:HIS:HB3	2.40	0.55
1:D:348:VAL:CB	1:D:349:GLN:CA	2.85	0.55
1:D:1081:TYR:O	1:D:1082:THR:C	2.49	0.55
1:D:2463:LEU:CA	1:D:2464:ASP:CB	2.84	0.55
1:D:3936:TYR:C	1:D:3936:TYR:CD1	2.85	0.55
1:D:4927:ILE:CD1	1:D:4928:LEU:CD2	2.85	0.55
1:D:4975:PHE:CD1	1:D:4975:PHE:C	2.84	0.55
1:D:5018:CYS:H	1:D:5019:TRP:CD1	2.24	0.55
1:A:38:ALA:HB1	1:A:64:ILE:C	2.18	0.55
1:A:546:TRP:HE3	1:A:547:VAL:N	2.04	0.55
1:A:1601:MET:CB	1:A:1602:PRO:CA	2.84	0.55
1:A:4644:TRP:CE3	1:A:4644:TRP:C	2.85	0.55
1:B:608:VAL:CB	1:B:610:ASN:CB	2.85	0.55
1:B:2191:PHE:HD1	1:B:2192:TYR:HD1	1.50	0.55
1:B:4115:SER:CA	1:B:4128:PHE:CE2	2.76	0.55
1:B:4711:PHE:CD1	1:B:4711:PHE:C	2.85	0.55
1:B:4716:TRP:O	1:B:4716:TRP:HE3	1.90	0.55
1:C:25:SER:O	1:C:26:ALA:C	2.47	0.55
1:C:639:ASN:CA	1:C:1634:LEU:O	2.42	0.55
1:C:1253:PRO:CB	1:C:1254:HIS:CB	2.85	0.55
1:C:1933:GLU:O	1:C:1936:LYS:CB	2.55	0.55
1:C:2145:SER:CB	1:C:3645:PRO:CA	2.85	0.55
1:C:3880:PHE:CD1	1:C:3880:PHE:C	2.85	0.55
1:C:3887:PHE:CD1	1:C:3887:PHE:C	2.85	0.55
1:C:4644:TRP:CE3	1:C:4644:TRP:C	2.85	0.55
1:C:4861:LYS:C	1:C:4862:PHE:CD1	2.84	0.55
1:C:4927:ILE:CD1	1:C:4928:LEU:CD2	2.85	0.55
1:D:485:SER:C	1:D:487:VAL:N	2.63	0.55
1:D:535:ALA:O	1:D:538:ALA:N	2.39	0.55
1:D:608:VAL:CB	1:D:610:ASN:CB	2.85	0.55
1:D:1117:ALA:CA	1:D:1134:LEU:CB	2.85	0.55
1:D:1213:PHE:CA	1:D:1214:PHE:CB	2.84	0.55
1:D:1272:LEU:CA	1:D:1273:ALA:CB	2.84	0.55
1:D:1828:ASP:CB	1:D:1829:PRO:CA	2.82	0.55
1:D:1933:GLU:O	1:D:1936:LYS:CB	2.55	0.55
1:D:4061:PHE:CD1	1:D:4061:PHE:C	2.85	0.55
1:D:4559:PHE:CD1	1:D:4559:PHE:C	2.85	0.55
1:D:4677:LEU:CD2	1:D:4711:PHE:CE2	2.90	0.55
1:A:1087:ARG:C	1:A:1088:TRP:CD1	2.85	0.55
1:A:1292:SER:N	1:A:1600:LEU:CB	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1297:PHE:CG	1:A:1297:PHE:N	2.73	0.55
1:A:3936:TYR:C	1:A:3936:TYR:CD1	2.85	0.55
1:A:4575:PHE:HD1	1:A:4576:ILE:N	2.04	0.55
1:A:4994:TYR:CD1	1:A:4994:TYR:C	2.85	0.55
1:B:1292:SER:N	1:B:1600:LEU:CB	2.70	0.55
1:B:2239:PHE:C	1:B:2239:PHE:CD1	2.85	0.55
1:B:2274:ASP:N	1:B:2275:VAL:CB	2.70	0.55
1:B:2509:VAL:C	1:B:2510:TYR:CG	2.85	0.55
1:B:3902:TYR:CD1	1:B:3906:GLN:CB	2.90	0.55
1:B:3936:TYR:CD1	1:B:3936:TYR:C	2.85	0.55
1:B:4156:HIS:CB	1:B:4157:ASP:CA	2.85	0.55
1:B:4942:GLU:CB	1:C:4944:ARG:CZ	2.85	0.55
1:C:112:ALA:N	1:C:113:HIS:O	2.40	0.55
1:C:509:GLU:C	1:C:511:ALA:H	2.13	0.55
1:C:2274:ASP:CB	1:C:2277:ALA:CB	2.85	0.55
1:C:2453:ILE:H	1:C:2456:ILE:H	1.55	0.55
1:C:3825:GLU:CA	1:C:3826:VAL:CB	2.84	0.55
1:C:3894:GLY:C	1:C:3895:HIS:CD2	2.85	0.55
1:C:3951:PHE:CD1	1:C:3951:PHE:C	2.85	0.55
1:C:4677:LEU:CD2	1:C:4711:PHE:CE2	2.90	0.55
1:C:4967:TYR:C	1:C:4967:TYR:CD1	2.85	0.55
1:D:404:ILE:O	1:D:408:ALA:HB3	2.06	0.55
1:D:565:TYR:CD1	1:D:565:TYR:C	2.85	0.55
1:D:1087:ARG:C	1:D:1088:TRP:CD1	2.85	0.55
1:D:1117:ALA:C	1:D:1134:LEU:CB	2.79	0.55
1:D:1292:SER:N	1:D:1600:LEU:CB	2.70	0.55
1:D:4234:PHE:C	1:D:4234:PHE:CD1	2.85	0.55
1:D:4656:LEU:O	1:D:4659:ILE:HG22	2.06	0.55
1:D:4888:TYR:CD1	1:D:4888:TYR:C	2.85	0.55
1:A:73:LEU:N	1:A:106:ALA:H	2.04	0.55
1:A:438:ILE:N	1:A:439:GLU:CB	2.70	0.55
1:A:608:VAL:CB	1:A:610:ASN:CB	2.85	0.55
1:A:1117:ALA:CA	1:A:1134:LEU:CB	2.85	0.55
1:A:1701:ALA:C	1:A:1702:HIS:CD2	2.85	0.55
1:A:3935:TRP:CD1	1:D:77:ALA:N	2.69	0.55
1:A:3986:TRP:CB	1:A:3987:ASP:CA	2.79	0.55
1:A:4156:HIS:CB	1:A:4157:ASP:CA	2.85	0.55
1:A:4234:PHE:C	1:A:4234:PHE:CD1	2.85	0.55
1:A:4671:PHE:CD1	1:A:4671:PHE:C	2.85	0.55
1:A:4850:LEU:O	1:A:4854:VAL:HG22	2.07	0.55
1:A:4861:LYS:C	1:A:4862:PHE:CD1	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4908:GLU:CB	1:A:4909:TYR:CA	2.85	0.55
1:A:5021:PHE:C	1:A:5022:PHE:O	2.28	0.55
1:B:509:GLU:C	1:B:511:ALA:H	2.13	0.55
1:B:1117:ALA:CA	1:B:1134:LEU:CB	2.85	0.55
1:B:2451:LEU:O	1:B:2454:ARG:HB3	2.07	0.55
1:B:3887:PHE:C	1:B:3887:PHE:CD1	2.85	0.55
1:B:4140:GLY:C	1:B:4174:PHE:CE2	2.84	0.55
1:B:4237:PHE:C	1:B:4237:PHE:CD1	2.85	0.55
1:B:4780:PHE:HA	1:B:4783:ILE:CG2	2.37	0.55
1:B:4861:LYS:C	1:B:4862:PHE:CD1	2.84	0.55
1:B:4927:ILE:CD1	1:B:4928:LEU:CD2	2.85	0.55
1:B:4960:ILE:CB	1:B:4961:CYS:CB	2.85	0.55
1:C:918:ARG:N	1:C:919:ASN:CB	2.70	0.55
1:C:1093:GLU:O	1:C:1200:GLY:CA	2.55	0.55
1:C:1117:ALA:C	1:C:1134:LEU:CB	2.79	0.55
1:C:1563:GLN:C	1:C:1564:PHE:HD1	2.14	0.55
1:C:4141:PHE:C	1:C:4141:PHE:CD1	2.85	0.55
1:C:4237:PHE:CD1	1:C:4237:PHE:C	2.85	0.55
1:C:4559:PHE:CD1	1:C:4559:PHE:C	2.85	0.55
1:C:4794:TRP:HE3	1:C:4795:TYR:N	2.04	0.55
1:C:4995:LEU:HD11	1:C:5011:TRP:HE3	0.63	0.55
1:C:4997:ASN:OD1	1:C:4997:ASN:N	2.38	0.55
1:C:5009:TYR:CD1	1:C:5009:TYR:C	2.85	0.55
1:C:5018:CYS:H	1:C:5019:TRP:CD1	2.24	0.55
1:D:252:VAL:N	1:D:253:CYS:CB	2.70	0.55
1:D:291:LEU:O	1:D:292:ALA:HB2	2.06	0.55
1:D:1093:GLU:O	1:D:1200:GLY:CA	2.55	0.55
1:D:1701:ALA:C	1:D:1702:HIS:CD2	2.85	0.55
1:D:3894:GLY:C	1:D:3895:HIS:CD2	2.85	0.55
1:D:4575:PHE:CD1	1:D:4575:PHE:C	2.85	0.55
1:D:4670:ILE:HG23	1:D:4671:PHE:N	2.21	0.55
1:D:4671:PHE:CD1	1:D:4671:PHE:C	2.85	0.55
1:D:4850:LEU:O	1:D:4854:VAL:HG22	2.07	0.55
1:D:4916:PHE:CD1	1:D:4916:PHE:C	2.84	0.55
1:D:4960:ILE:CB	1:D:4961:CYS:CB	2.85	0.55
1:A:2529:ASP:O	1:A:2531:ARG:N	2.40	0.55
1:A:3810:ALA:O	1:A:3811:GLU:C	2.47	0.55
1:A:3887:PHE:CD1	1:A:3887:PHE:C	2.85	0.55
1:A:3933:PHE:CD1	1:A:3933:PHE:C	2.84	0.55
1:A:4991:PHE:C	1:A:4991:PHE:CD1	2.85	0.55
1:B:501:ALA:HB3	1:B:504:ALA:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1117:ALA:C	1:B:1134:LEU:CB	2.79	0.55
1:B:1213:PHE:CA	1:B:1214:PHE:CB	2.84	0.55
1:B:1253:PRO:CB	1:B:1254:HIS:CB	2.85	0.55
1:B:2200:ALA:O	1:B:2201:LEU:C	2.50	0.55
1:B:4105:GLY:N	1:B:4106:PRO:HD2	2.22	0.55
1:B:4644:TRP:CE3	1:B:4644:TRP:C	2.85	0.55
1:B:4952:GLU:O	1:B:4956:THR:HG23	2.07	0.55
1:C:252:VAL:N	1:C:253:CYS:CB	2.70	0.55
1:C:1087:ARG:C	1:C:1088:TRP:CD1	2.85	0.55
1:C:2110:TYR:CD1	1:C:2110:TYR:C	2.85	0.55
1:C:2451:LEU:O	1:C:2454:ARG:HB3	2.07	0.55
1:C:2509:VAL:C	1:C:2510:TYR:CG	2.85	0.55
1:C:4110:PHE:CD1	1:C:4110:PHE:C	2.85	0.55
1:C:4180:ARG:CA	1:C:4181:ILE:CB	2.85	0.55
1:C:4711:PHE:CD1	1:C:4711:PHE:C	2.85	0.55
1:C:4991:PHE:CD1	1:C:4991:PHE:C	2.85	0.55
1:D:73:LEU:N	1:D:106:ALA:H	2.04	0.55
1:D:151:HIS:O	1:D:152:PRO:C	2.46	0.55
1:D:546:TRP:HE3	1:D:547:VAL:N	2.04	0.55
1:D:1253:PRO:CB	1:D:1254:HIS:CB	2.85	0.55
1:D:1563:GLN:C	1:D:1564:PHE:CD1	2.85	0.55
1:D:2201:LEU:CB	1:D:2205:GLU:CB	2.84	0.55
1:D:3765:TYR:CD1	1:D:3765:TYR:C	2.85	0.55
1:D:4800:LEU:CD2	1:D:4801:LEU:CD2	2.85	0.55
1:A:132:ALA:C	1:A:133:PHE:CD1	2.85	0.54
1:A:404:ILE:O	1:A:408:ALA:HB3	2.06	0.54
1:A:546:TRP:CE3	1:A:546:TRP:C	2.85	0.54
1:A:565:TYR:C	1:A:565:TYR:CD1	2.85	0.54
1:A:4089:SER:CA	1:A:4121:GLU:O	2.54	0.54
1:A:4141:PHE:CD1	1:A:4141:PHE:C	2.85	0.54
1:A:4791:TYR:CD1	1:A:4791:TYR:C	2.85	0.54
1:B:341:TYR:C	1:B:343:GLU:H	2.14	0.54
1:B:2102:VAL:CA	1:B:2105:TRP:CD1	2.84	0.54
1:B:2274:ASP:CB	1:B:2277:ALA:CB	2.85	0.54
1:B:2362:GLU:CA	1:B:2363:CYS:CB	2.85	0.54
1:B:3765:TYR:CD1	1:B:3765:TYR:C	2.85	0.54
1:B:3894:GLY:C	1:B:3895:HIS:CD2	2.85	0.54
1:B:4131:ARG:C	1:B:4132:PHE:CD1	2.86	0.54
1:B:4559:PHE:CD1	1:B:4560:TYR:N	2.75	0.54
1:B:4916:PHE:C	1:B:4916:PHE:CD1	2.84	0.54
1:B:4975:PHE:CD1	1:B:4975:PHE:C	2.84	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4994:TYR:C	1:B:4994:TYR:CD1	2.86	0.54
1:B:5014:TYR:CD1	1:B:5014:TYR:C	2.85	0.54
1:C:181:HIS:CB	1:C:182:LEU:CA	2.85	0.54
1:C:2168:VAL:CA	1:C:2169:GLN:CB	2.85	0.54
1:C:4061:PHE:C	1:C:4061:PHE:CD1	2.85	0.54
1:C:4556:SER:O	1:C:4559:PHE:N	2.40	0.54
1:C:4559:PHE:CD1	1:C:4560:TYR:N	2.75	0.54
1:C:4575:PHE:CD1	1:C:4575:PHE:C	2.85	0.54
1:C:4800:LEU:CD2	1:C:4801:LEU:CD2	2.85	0.54
1:C:4888:TYR:C	1:C:4888:TYR:CD1	2.85	0.54
1:C:4960:ILE:CB	1:C:4961:CYS:CB	2.85	0.54
1:D:2102:VAL:CA	1:D:2105:TRP:CD1	2.84	0.54
1:D:3933:PHE:CD1	1:D:3933:PHE:C	2.84	0.54
1:D:4105:GLY:N	1:D:4106:PRO:HD2	2.22	0.54
1:D:4141:PHE:CD1	1:D:4141:PHE:C	2.85	0.54
1:D:4237:PHE:CD1	1:D:4237:PHE:C	2.85	0.54
1:D:4923:PHE:CD1	1:D:4923:PHE:C	2.86	0.54
1:A:1124:PHE:C	1:A:1124:PHE:CD1	2.86	0.54
1:A:2201:LEU:CB	1:A:2205:GLU:CB	2.84	0.54
1:A:2274:ASP:N	1:A:2275:VAL:CB	2.70	0.54
1:A:4243:PHE:C	1:A:4243:PHE:CD1	2.85	0.54
1:A:4927:ILE:CD1	1:A:4928:LEU:CD2	2.85	0.54
1:A:4935:LEU:HD23	1:B:4940:PHE:CE2	2.42	0.54
1:A:4960:ILE:CB	1:A:4961:CYS:CB	2.85	0.54
1:A:4971:THR:HG21	1:A:4974:GLY:HA3	1.87	0.54
1:A:4982:GLU:CB	1:A:4983:HIS:CB	2.83	0.54
1:A:5031:GLN:O	1:A:5032:TYR:HD1	1.89	0.54
1:B:118:LEU:CA	1:B:137:LEU:HA	2.25	0.54
1:B:438:ILE:N	1:B:439:GLU:CB	2.70	0.54
1:B:546:TRP:CE3	1:B:546:TRP:C	2.85	0.54
1:B:546:TRP:HE3	1:B:547:VAL:N	2.05	0.54
1:B:3825:GLU:CA	1:B:3826:VAL:CB	2.84	0.54
1:B:3951:PHE:C	1:B:3951:PHE:CD1	2.85	0.54
1:B:4061:PHE:CD1	1:B:4061:PHE:C	2.85	0.54
1:B:4180:ARG:CA	1:B:4181:ILE:CB	2.85	0.54
1:C:451:TYR:C	1:C:451:TYR:CD1	2.85	0.54
1:C:565:TYR:CD1	1:C:565:TYR:C	2.85	0.54
1:C:3819:TYR:CD1	1:C:3819:TYR:C	2.85	0.54
1:C:3934:TYR:CE1	1:C:3935:TRP:HZ3	2.19	0.54
1:C:3936:TYR:CD1	1:C:3936:TYR:C	2.85	0.54
1:C:4780:PHE:HA	1:C:4783:ILE:CG2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:25:SER:O	1:D:26:ALA:C	2.47	0.54
1:D:378:LEU:CB	1:D:379:HIS:CA	2.84	0.54
1:D:438:ILE:N	1:D:439:GLU:CB	2.70	0.54
1:D:1124:PHE:C	1:D:1124:PHE:CD1	2.86	0.54
1:D:2274:ASP:N	1:D:2275:VAL:CB	2.70	0.54
1:D:2451:LEU:O	1:D:2454:ARG:HB3	2.07	0.54
1:D:4644:TRP:CE3	1:D:4644:TRP:C	2.85	0.54
1:D:4716:TRP:O	1:D:4716:TRP:HE3	1.90	0.54
1:D:4967:TYR:C	1:D:4967:TYR:CD1	2.85	0.54
1:A:73:LEU:O	1:A:105:HIS:C	2.46	0.54
1:A:702:TRP:CD1	1:A:1640:HIS:CB	2.90	0.54
1:A:1253:PRO:CB	1:A:1254:HIS:CB	2.85	0.54
1:A:2168:VAL:CB	1:A:2169:GLN:CB	2.86	0.54
1:A:2274:ASP:C	1:A:2277:ALA:HB3	2.32	0.54
1:A:2755:ILE:O	1:A:2759:ALA:CB	2.54	0.54
1:A:3937:TYR:O	1:A:3939:GLY:N	2.33	0.54
1:A:4928:LEU:O	1:A:4931:ILE:HD13	2.07	0.54
1:B:4908:GLU:CB	1:B:4909:TYR:CB	2.85	0.54
1:B:4991:PHE:CD1	1:B:4991:PHE:C	2.85	0.54
1:C:404:ILE:O	1:C:408:ALA:HB3	2.06	0.54
1:C:438:ILE:N	1:C:439:GLU:CB	2.70	0.54
1:C:439:GLU:H	1:C:442:ILE:H	1.54	0.54
1:C:546:TRP:HE3	1:C:547:VAL:N	2.04	0.54
1:C:608:VAL:CB	1:C:610:ASN:CB	2.85	0.54
1:C:1563:GLN:C	1:C:1564:PHE:CD1	2.85	0.54
1:C:2274:ASP:N	1:C:2275:VAL:CB	2.70	0.54
1:C:2274:ASP:C	1:C:2277:ALA:HB3	2.32	0.54
1:C:4105:GLY:N	1:C:4106:PRO:HD2	2.22	0.54
1:C:4131:ARG:C	1:C:4132:PHE:CD1	2.86	0.54
1:C:4235:VAL:CG1	1:C:5019:TRP:HZ3	2.05	0.54
1:C:4243:PHE:HD1	1:C:4243:PHE:C	2.15	0.54
1:D:112:ALA:N	1:D:113:HIS:O	2.40	0.54
1:D:501:ALA:HB3	1:D:504:ALA:N	2.21	0.54
1:D:2168:VAL:CA	1:D:2169:GLN:CB	2.85	0.54
1:D:3819:TYR:CD1	1:D:3819:TYR:C	2.85	0.54
1:D:4908:GLU:CB	1:D:4909:TYR:CB	2.85	0.54
1:A:348:VAL:CB	1:A:349:GLN:CA	2.85	0.54
1:A:1825:HIS:O	1:A:1826:ALA:HB3	2.07	0.54
1:A:2105:TRP:CZ3	1:A:2106:ALA:HA	2.42	0.54
1:A:2495:VAL:CB	1:A:2496:PRO:CD	2.86	0.54
1:A:3828:PHE:CD1	1:A:3828:PHE:C	2.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4559:PHE:CD1	1:A:4559:PHE:C	2.85	0.54
1:A:4575:PHE:CD1	1:A:4575:PHE:C	2.85	0.54
1:A:4967:TYR:C	1:A:4967:TYR:CD1	2.85	0.54
1:B:1601:MET:CB	1:B:1602:PRO:CA	2.84	0.54
1:B:1701:ALA:C	1:B:1702:HIS:CD2	2.85	0.54
1:B:3106:MET:O	1:B:3110:LEU:N	2.36	0.54
1:C:132:ALA:C	1:C:133:PHE:CD1	2.85	0.54
1:C:546:TRP:CE3	1:C:546:TRP:C	2.85	0.54
1:C:918:ARG:CB	1:C:921:ASN:CB	2.85	0.54
1:C:1126:GLY:HA3	1:C:1143:TRP:CB	2.38	0.54
1:C:1160:ILE:O	1:C:1178:ALA:HB1	2.08	0.54
1:C:1292:SER:N	1:C:1600:LEU:CB	2.70	0.54
1:C:1701:ALA:C	1:C:1702:HIS:CD2	2.85	0.54
1:C:2755:ILE:O	1:C:2759:ALA:CB	2.54	0.54
1:C:3934:TYR:CD1	1:C:3934:TYR:C	2.85	0.54
1:C:4670:ILE:HG23	1:C:4671:PHE:N	2.21	0.54
1:C:4716:TRP:O	1:C:4716:TRP:HE3	1.90	0.54
1:C:4856:PHE:CD1	1:C:4856:PHE:C	2.86	0.54
1:D:148:TRP:CA	1:D:149:THR:CB	2.85	0.54
1:D:1285:GLU:CA	1:D:1286:MET:CB	2.83	0.54
1:D:2145:SER:CB	1:D:3645:PRO:CA	2.85	0.54
1:D:4559:PHE:CD1	1:D:4560:TYR:N	2.75	0.54
1:D:4711:PHE:C	1:D:4711:PHE:CD1	2.85	0.54
1:D:4928:LEU:O	1:D:4931:ILE:HD13	2.07	0.54
1:D:4997:ASN:OD1	1:D:4997:ASN:N	2.39	0.54
1:A:1803:PRO:O	1:A:1807:LEU:N	2.37	0.54
1:A:1933:GLU:O	1:A:1936:LYS:CB	2.55	0.54
1:A:2168:VAL:CA	1:A:2169:GLN:CB	2.85	0.54
1:A:2452:ARG:N	1:A:2453:ILE:CB	2.71	0.54
1:A:3765:TYR:CD1	1:A:3765:TYR:C	2.85	0.54
1:A:4132:PHE:CD1	1:A:4132:PHE:N	2.73	0.54
1:A:4180:ARG:CA	1:A:4181:ILE:CB	2.85	0.54
1:B:565:TYR:CD1	1:B:565:TYR:C	2.85	0.54
1:B:702:TRP:CD1	1:B:1640:HIS:CB	2.90	0.54
1:B:4234:PHE:CD1	1:B:4234:PHE:C	2.85	0.54
1:B:4800:LEU:CD2	1:B:4801:LEU:CD2	2.85	0.54
1:B:4850:LEU:O	1:B:4854:VAL:HG22	2.07	0.54
1:C:483:MET:C	1:C:485:SER:N	2.63	0.54
1:C:2105:TRP:CE3	1:C:2105:TRP:C	2.85	0.54
1:C:2362:GLU:CA	1:C:2363:CYS:CB	2.85	0.54
1:C:2529:ASP:O	1:C:2531:ARG:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4184:MET:CB	1:C:5021:PHE:HB2	2.38	0.54
1:C:4656:LEU:O	1:C:4659:ILE:HG22	2.06	0.54
1:D:1564:PHE:CD1	1:D:1564:PHE:N	2.76	0.54
1:D:2105:TRP:CZ3	1:D:2106:ALA:HA	2.42	0.54
1:D:2452:ARG:N	1:D:2453:ILE:CB	2.71	0.54
1:D:2509:VAL:C	1:D:2510:TYR:CG	2.85	0.54
1:D:4243:PHE:HD1	1:D:4243:PHE:C	2.15	0.54
1:D:4668:LEU:HD12	1:D:4668:LEU:C	2.30	0.54
1:A:252:VAL:N	1:A:253:CYS:CB	2.70	0.54
1:A:341:TYR:C	1:A:343:GLU:H	2.14	0.54
1:A:918:ARG:N	1:A:919:ASN:CB	2.70	0.54
1:A:918:ARG:CB	1:A:921:ASN:CB	2.85	0.54
1:A:2145:SER:CB	1:A:3645:PRO:CA	2.85	0.54
1:A:4184:MET:CB	1:A:5021:PHE:HB2	2.38	0.54
1:A:4800:LEU:CD2	1:A:4801:LEU:CD2	2.85	0.54
1:A:4852:THR:HG1	1:A:4886:HIS:CG	2.22	0.54
1:A:4856:PHE:CD1	1:A:4856:PHE:C	2.86	0.54
1:B:181:HIS:CB	1:B:182:LEU:CA	2.85	0.54
1:B:1087:ARG:C	1:B:1088:TRP:CD1	2.85	0.54
1:B:2453:ILE:H	1:B:2456:ILE:H	1.55	0.54
1:B:4834:GLY:HA2	1:B:4837:LEU:CB	2.36	0.54
1:C:4140:GLY:C	1:C:4174:PHE:CE2	2.84	0.54
1:D:173:SER:CB	1:D:174:VAL:CB	2.85	0.54
1:D:451:TYR:CD1	1:D:451:TYR:C	2.85	0.54
1:D:546:TRP:CE3	1:D:546:TRP:C	2.85	0.54
1:D:2168:VAL:CB	1:D:2169:GLN:CB	2.86	0.54
1:D:2274:ASP:C	1:D:2277:ALA:HB3	2.32	0.54
1:D:4719:PHE:CD1	1:D:4719:PHE:N	2.73	0.54
1:A:148:TRP:CA	1:A:149:THR:CB	2.85	0.54
1:A:3819:TYR:CD1	1:A:3819:TYR:C	2.85	0.54
1:A:3951:PHE:CD1	1:A:3951:PHE:C	2.85	0.54
1:A:4556:SER:O	1:A:4559:PHE:N	2.40	0.54
1:A:4719:PHE:CD1	1:A:4719:PHE:N	2.73	0.54
1:A:4773:VAL:O	1:A:4774:LYS:C	2.47	0.54
1:B:131:LEU:O	1:B:132:ALA:HB3	2.08	0.54
1:B:148:TRP:CA	1:B:149:THR:CB	2.85	0.54
1:B:252:VAL:N	1:B:253:CYS:CB	2.70	0.54
1:B:918:ARG:N	1:B:919:ASN:CB	2.70	0.54
1:B:1563:GLN:C	1:B:1564:PHE:CD1	2.85	0.54
1:B:4243:PHE:CD1	1:B:4243:PHE:C	2.85	0.54
1:B:4656:LEU:O	1:B:4659:ILE:HG22	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4719:PHE:N	1:B:4719:PHE:CD1	2.73	0.54
1:B:4856:PHE:CD1	1:B:4856:PHE:C	2.86	0.54
1:C:535:ALA:O	1:C:538:ALA:N	2.39	0.54
1:C:1564:PHE:CD1	1:C:1564:PHE:N	2.76	0.54
1:C:4947:GLN:OE1	1:C:4948:GLU:N	2.40	0.54
1:C:4995:LEU:CD1	1:C:5011:TRP:HZ3	2.12	0.54
1:D:918:ARG:N	1:D:919:ASN:CB	2.70	0.54
1:D:1112:ASP:CB	1:D:1608:MET:H	2.21	0.54
1:D:1126:GLY:HA3	1:D:1143:TRP:CB	2.38	0.54
1:D:2110:TYR:C	1:D:2110:TYR:CD1	2.85	0.54
1:D:2239:PHE:CD1	1:D:2239:PHE:C	2.85	0.54
1:D:2274:ASP:CB	1:D:2277:ALA:CB	2.85	0.54
1:D:3887:PHE:CD1	1:D:3887:PHE:C	2.85	0.54
1:D:4110:PHE:C	1:D:4110:PHE:CD1	2.85	0.54
1:D:4180:ARG:CA	1:D:4181:ILE:CB	2.85	0.54
1:D:4184:MET:CB	1:D:5021:PHE:HB2	2.38	0.54
1:D:4908:GLU:CB	1:D:4909:TYR:CA	2.85	0.54
1:D:4982:GLU:CB	1:D:4983:HIS:CB	2.83	0.54
1:D:4991:PHE:C	1:D:4991:PHE:CD1	2.85	0.54
1:A:2509:VAL:C	1:A:2510:TYR:CG	2.85	0.54
1:A:3825:GLU:CA	1:A:3826:VAL:CB	2.84	0.54
1:A:3934:TYR:C	1:A:3934:TYR:CD1	2.85	0.54
1:A:4243:PHE:HD1	1:A:4243:PHE:C	2.15	0.54
1:A:4697:VAL:N	1:A:4698:LYS:CB	2.71	0.54
1:B:1160:ILE:O	1:B:1178:ALA:HB1	2.08	0.54
1:B:1825:HIS:O	1:B:1826:ALA:HB3	2.07	0.54
1:B:4110:PHE:CD1	1:B:4110:PHE:C	2.85	0.54
1:B:4141:PHE:CD1	1:B:4141:PHE:C	2.85	0.54
1:B:4184:MET:CB	1:B:5021:PHE:HB2	2.38	0.54
1:C:2105:TRP:CZ3	1:C:2106:ALA:HA	2.42	0.54
1:C:2518:LEU:O	1:C:2522:LEU:N	2.41	0.54
1:C:4671:PHE:CD1	1:C:4671:PHE:C	2.85	0.54
1:C:5014:TYR:C	1:C:5014:TYR:CD1	2.85	0.54
1:D:132:ALA:C	1:D:133:PHE:CD1	2.85	0.54
1:D:2529:ASP:O	1:D:2531:ARG:N	2.40	0.54
1:D:3902:TYR:CD1	1:D:3906:GLN:CB	2.90	0.54
1:D:3937:TYR:O	1:D:3939:GLY:N	2.33	0.54
1:D:4780:PHE:HA	1:D:4783:ILE:CG2	2.38	0.54
1:A:111:HIS:C	1:A:113:HIS:O	2.37	0.54
1:A:1112:ASP:CB	1:A:1608:MET:H	2.21	0.54
1:A:3894:GLY:C	1:A:3895:HIS:CD2	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4061:PHE:CD1	1:A:4061:PHE:C	2.85	0.54
1:A:4093:PHE:CD1	1:A:4093:PHE:C	2.86	0.54
1:A:4110:PHE:C	1:A:4110:PHE:CD1	2.85	0.54
1:A:4150:LEU:HD12	1:A:4150:LEU:C	2.29	0.54
1:A:4182:GLU:OE1	1:A:4988:TYR:CG	2.61	0.54
1:A:4559:PHE:CD1	1:A:4560:TYR:N	2.75	0.54
1:A:5009:TYR:CD1	1:A:5009:TYR:C	2.85	0.54
1:B:112:ALA:N	1:B:113:HIS:O	2.40	0.54
1:B:132:ALA:C	1:B:133:PHE:CD1	2.85	0.54
1:B:168:ASP:CB	1:B:169:LEU:CA	2.82	0.54
1:B:634:GLN:C	1:B:1639:LEU:CB	2.81	0.54
1:B:2200:ALA:C	1:B:2202:GLY:N	2.58	0.54
1:B:2495:VAL:CB	1:B:2496:PRO:CD	2.85	0.54
1:B:2529:ASP:O	1:B:2531:ARG:N	2.40	0.54
1:B:4697:VAL:N	1:B:4699:GLY:H	1.94	0.54
1:B:4791:TYR:C	1:B:4791:TYR:CD1	2.85	0.54
1:B:4888:TYR:CD1	1:B:4888:TYR:C	2.85	0.54
1:C:1164:LEU:N	1:C:1167:GLU:O	2.41	0.54
1:C:1297:PHE:CG	1:C:1297:PHE:N	2.73	0.54
1:C:2168:VAL:CB	1:C:2169:GLN:CB	2.86	0.54
1:C:3062:PRO:HA	1:C:3063:ALA:C	2.33	0.54
1:C:3828:PHE:CD1	1:C:3828:PHE:C	2.86	0.54
1:C:4982:GLU:CB	1:C:4983:HIS:C	2.81	0.54
1:D:181:HIS:CB	1:D:182:LEU:CA	2.85	0.54
1:D:1252:HIS:CB	1:D:1255:TYR:CA	2.85	0.54
1:D:1290:ARG:HA	1:D:1551:ALA:CB	2.34	0.54
1:D:1461:ASP:CA	1:D:1462:MET:CB	2.84	0.54
1:D:2105:TRP:CE3	1:D:2105:TRP:C	2.85	0.54
1:D:3062:PRO:HA	1:D:3063:ALA:C	2.33	0.54
1:D:4697:VAL:N	1:D:4698:LYS:CB	2.71	0.54
1:D:4791:TYR:C	1:D:4791:TYR:CD1	2.85	0.54
1:D:4856:PHE:CD1	1:D:4856:PHE:C	2.86	0.54
1:D:4982:GLU:CB	1:D:4983:HIS:C	2.81	0.54
1:A:4780:PHE:HA	1:A:4783:ILE:CG2	2.37	0.54
1:A:5014:TYR:CD1	1:A:5014:TYR:C	2.85	0.54
1:B:1112:ASP:CB	1:B:1608:MET:H	2.21	0.54
1:B:1124:PHE:CD1	1:B:1124:PHE:C	2.86	0.54
1:B:4554:TYR:O	1:B:4556:SER:N	2.41	0.54
1:B:4671:PHE:C	1:B:4671:PHE:CD1	2.85	0.54
1:B:4982:GLU:CB	1:B:4983:HIS:C	2.81	0.54
1:B:5016:GLU:C	1:B:5017:ARG:O	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:131:LEU:O	1:C:132:ALA:HB3	2.08	0.54
1:C:173:SER:CB	1:C:174:VAL:CB	2.85	0.54
1:C:378:LEU:CB	1:C:379:HIS:CA	2.84	0.54
1:C:1112:ASP:CB	1:C:1608:MET:H	2.21	0.54
1:C:2239:PHE:CD1	1:C:2239:PHE:C	2.85	0.54
1:C:3902:TYR:CD1	1:C:3906:GLN:CB	2.90	0.54
1:C:4923:PHE:CD1	1:C:4923:PHE:C	2.86	0.54
1:C:4994:TYR:CD1	1:C:4994:TYR:C	2.86	0.54
1:D:1160:ILE:O	1:D:1178:ALA:HB1	2.08	0.54
1:D:3951:PHE:CD1	1:D:3951:PHE:C	2.85	0.54
1:D:5009:TYR:C	1:D:5009:TYR:CD1	2.85	0.54
1:A:112:ALA:N	1:A:113:HIS:O	2.40	0.53
1:A:451:TYR:CD1	1:A:451:TYR:C	2.85	0.53
1:A:2102:VAL:CA	1:A:2105:TRP:CD1	2.84	0.53
1:A:2105:TRP:CE3	1:A:2105:TRP:C	2.85	0.53
1:A:2274:ASP:CB	1:A:2277:ALA:CB	2.85	0.53
1:A:2274:ASP:CB	1:A:2277:ALA:HB3	2.38	0.53
1:A:2451:LEU:O	1:A:2454:ARG:HB3	2.07	0.53
1:A:4237:PHE:CD1	1:A:4237:PHE:C	2.85	0.53
1:A:4982:GLU:CB	1:A:4983:HIS:C	2.81	0.53
1:B:439:GLU:H	1:B:442:ILE:H	1.54	0.53
1:B:2110:TYR:CD1	1:B:2110:TYR:C	2.85	0.53
1:B:2274:ASP:C	1:B:2277:ALA:HB3	2.32	0.53
1:B:2505:PHE:C	1:B:2505:PHE:CD1	2.86	0.53
1:B:3828:PHE:C	1:B:3828:PHE:CD1	2.86	0.53
1:B:3934:TYR:CD1	1:B:3934:TYR:C	2.85	0.53
1:B:4928:LEU:O	1:B:4931:ILE:HD13	2.07	0.53
1:C:1124:PHE:CD1	1:C:1124:PHE:C	2.86	0.53
1:C:2495:VAL:CB	1:C:2496:PRO:CD	2.86	0.53
1:C:3765:TYR:C	1:C:3765:TYR:CD1	2.85	0.53
1:C:4197:ILE:CD1	1:C:4990:PHE:CG	2.90	0.53
1:C:4729:GLY:CA	1:C:4732:PHE:CB	2.85	0.53
1:C:4908:GLU:CB	1:C:4909:TYR:CB	2.85	0.53
1:D:3934:TYR:C	1:D:3934:TYR:CD1	2.85	0.53
1:D:4834:GLY:HA2	1:D:4837:LEU:H	1.74	0.53
1:D:4994:TYR:CD1	1:D:4994:TYR:C	2.86	0.53
1:D:5014:TYR:CD1	1:D:5014:TYR:C	2.85	0.53
1:A:2110:TYR:C	1:A:2110:TYR:CD1	2.85	0.53
1:A:4008:SER:N	1:A:4009:GLN:CA	2.71	0.53
1:A:4105:GLY:N	1:A:4106:PRO:HD2	2.22	0.53
1:A:4923:PHE:C	1:A:4923:PHE:CD1	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4960:ILE:N	1:A:4961:CYS:CB	2.71	0.53
1:B:918:ARG:CB	1:B:921:ASN:CB	2.85	0.53
1:B:2105:TRP:CE3	1:B:2105:TRP:C	2.85	0.53
1:B:3699:HIS:O	1:B:3700:GLN:C	2.51	0.53
1:B:4243:PHE:HD1	1:B:4243:PHE:C	2.15	0.53
1:B:4559:PHE:CD1	1:B:4559:PHE:C	2.85	0.53
1:B:4575:PHE:HD1	1:B:4576:ILE:N	2.04	0.53
1:B:4923:PHE:CD1	1:B:4923:PHE:C	2.86	0.53
1:B:4960:ILE:N	1:B:4961:CYS:CB	2.71	0.53
1:C:148:TRP:CA	1:C:149:THR:CB	2.85	0.53
1:C:1124:PHE:CA	1:C:1131:ARG:CA	2.52	0.53
1:C:4156:HIS:CB	1:C:4157:ASP:CA	2.85	0.53
1:C:4928:LEU:O	1:C:4931:ILE:HD13	2.07	0.53
1:D:1825:HIS:O	1:D:1826:ALA:HB3	2.07	0.53
1:D:2505:PHE:C	1:D:2505:PHE:CD1	2.86	0.53
1:D:4243:PHE:C	1:D:4243:PHE:CD1	2.85	0.53
1:D:4686:LEU:CB	1:D:4692:PRO:CG	2.81	0.53
1:A:1133:HIS:N	1:A:1134:LEU:HA	2.23	0.53
1:A:1563:GLN:C	1:A:1564:PHE:CD1	2.85	0.53
1:A:3699:HIS:O	1:A:3700:GLN:C	2.51	0.53
1:A:4131:ARG:C	1:A:4132:PHE:CD1	2.86	0.53
1:A:4888:TYR:C	1:A:4888:TYR:CD1	2.85	0.53
1:B:1515:VAL:CB	1:B:1529:PHE:C	2.77	0.53
1:B:2105:TRP:CZ3	1:B:2106:ALA:HA	2.42	0.53
1:B:2452:ARG:N	1:B:2453:ILE:CB	2.71	0.53
1:B:4008:SER:N	1:B:4009:GLN:CA	2.71	0.53
1:B:4677:LEU:CD2	1:B:4711:PHE:CE2	2.90	0.53
1:C:2452:ARG:N	1:C:2453:ILE:CB	2.71	0.53
1:C:4234:PHE:CD1	1:C:4234:PHE:C	2.85	0.53
1:C:5016:GLU:C	1:C:5017:ARG:O	2.42	0.53
1:D:702:TRP:CD1	1:D:1640:HIS:CB	2.90	0.53
1:D:918:ARG:CB	1:D:921:ASN:CB	2.85	0.53
1:D:4131:ARG:C	1:D:4132:PHE:CD1	2.86	0.53
1:A:1093:GLU:O	1:A:1201:HIS:O	2.27	0.53
1:A:1164:LEU:N	1:A:1167:GLU:O	2.41	0.53
1:A:1515:VAL:CB	1:A:1529:PHE:C	2.77	0.53
1:A:2505:PHE:CD1	1:A:2505:PHE:C	2.86	0.53
1:A:4141:PHE:CE1	1:A:4145:VAL:HG21	2.44	0.53
1:A:4834:GLY:HA2	1:A:4837:LEU:CB	2.36	0.53
1:B:639:ASN:CA	1:B:1634:LEU:O	2.42	0.53
1:B:1126:GLY:HA3	1:B:1143:TRP:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2278:ALA:C	1:B:2280:VAL:N	2.66	0.53
1:B:4668:LEU:HD12	1:B:4668:LEU:C	2.30	0.53
1:B:4829:SER:CB	1:B:4940:PHE:CD1	2.92	0.53
1:B:4932:ILE:HG23	1:B:4933:GLN:N	2.23	0.53
1:C:1133:HIS:N	1:C:1134:LEU:CA	2.72	0.53
1:C:2274:ASP:CB	1:C:2277:ALA:HB3	2.38	0.53
1:C:4834:GLY:HA2	1:C:4837:LEU:H	1.74	0.53
1:D:1093:GLU:O	1:D:1201:HIS:O	2.27	0.53
1:D:2495:VAL:CB	1:D:2496:PRO:CD	2.85	0.53
1:D:3828:PHE:C	1:D:3828:PHE:CD1	2.86	0.53
1:A:1126:GLY:HA3	1:A:1143:TRP:CB	2.38	0.53
1:A:1252:HIS:CB	1:A:1255:TYR:CA	2.85	0.53
1:A:1564:PHE:CD1	1:A:1564:PHE:N	2.76	0.53
1:A:2240:CYS:O	1:A:2241:ARG:C	2.52	0.53
1:A:3062:PRO:HA	1:A:3063:ALA:C	2.33	0.53
1:A:4677:LEU:CD2	1:A:4711:PHE:CE2	2.90	0.53
1:B:227:MET:O	1:B:229:GLU:N	2.39	0.53
1:B:2168:VAL:CB	1:B:2169:GLN:CB	2.86	0.53
1:B:2274:ASP:CB	1:B:2277:ALA:HB3	2.38	0.53
1:B:4928:LEU:CA	1:B:4931:ILE:CD1	2.84	0.53
1:B:5009:TYR:CD1	1:B:5009:TYR:C	2.85	0.53
1:C:1133:HIS:N	1:C:1134:LEU:HA	2.24	0.53
1:C:4089:SER:CA	1:C:4121:GLU:O	2.54	0.53
1:C:4141:PHE:CE1	1:C:4145:VAL:HG21	2.44	0.53
1:C:4697:VAL:N	1:C:4698:LYS:CB	2.71	0.53
1:C:4791:TYR:CD1	1:C:4791:TYR:C	2.85	0.53
1:D:119:SER:H	1:D:137:LEU:HA	1.74	0.53
1:D:1719:HIS:N	1:D:1720:LEU:CA	2.72	0.53
1:D:2200:ALA:O	1:D:2201:LEU:C	2.50	0.53
1:D:3934:TYR:HD1	1:D:3935:TRP:HE3	1.57	0.53
1:D:4960:ILE:N	1:D:4961:CYS:CB	2.71	0.53
1:A:181:HIS:CB	1:A:182:LEU:CA	2.85	0.53
1:A:1461:ASP:CA	1:A:1462:MET:CB	2.84	0.53
1:A:1643:GLU:N	1:A:1644:GLU:HA	2.24	0.53
1:A:4932:ILE:HG23	1:A:4933:GLN:N	2.23	0.53
1:B:4697:VAL:N	1:B:4698:LYS:CB	2.71	0.53
1:C:2109:ASP:O	1:C:2110:TYR:HB3	2.09	0.53
1:C:4008:SER:N	1:C:4009:GLN:CA	2.71	0.53
1:C:4861:LYS:O	1:C:4862:PHE:HD1	1.92	0.53
1:D:681:HIS:O	1:D:784:SER:N	2.37	0.53
1:D:789:VAL:O	1:D:1627:ALA:HA	2.03	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2274:ASP:CB	1:D:2277:ALA:HB3	2.38	0.53
1:D:4554:TYR:O	1:D:4556:SER:N	2.41	0.53
1:A:131:LEU:O	1:A:132:ALA:HB3	2.07	0.53
1:A:378:LEU:CB	1:A:379:HIS:CA	2.84	0.53
1:A:2239:PHE:CD1	1:A:2239:PHE:C	2.85	0.53
1:A:3934:TYR:HD1	1:A:3935:TRP:HE3	1.57	0.53
1:A:4697:VAL:CA	1:A:4698:LYS:CB	2.87	0.53
1:A:4834:GLY:HA2	1:A:4837:LEU:H	1.74	0.53
1:A:4968:PHE:CD2	1:A:4978:HIS:HB3	2.40	0.53
1:B:212:GLY:N	1:B:213:TYR:CB	2.72	0.53
1:B:451:TYR:CD1	1:B:451:TYR:C	2.85	0.53
1:B:2592:GLY:H	1:B:2595:LEU:N	1.92	0.53
1:B:3562:LYS:O	1:B:3565:GLY:N	2.42	0.53
1:B:4575:PHE:CD1	1:B:4575:PHE:C	2.85	0.53
1:C:1825:HIS:O	1:C:1826:ALA:HB3	2.07	0.53
1:C:2505:PHE:CD1	1:C:2505:PHE:C	2.86	0.53
1:C:4181:ILE:CG2	1:C:4193:ILE:N	2.72	0.53
1:C:4575:PHE:HD1	1:C:4576:ILE:N	2.04	0.53
1:C:4719:PHE:N	1:C:4719:PHE:CD1	2.73	0.53
1:D:168:ASP:CB	1:D:169:LEU:CA	2.82	0.53
1:D:596:ASN:C	1:D:598:LYS:N	2.62	0.53
1:D:4697:VAL:CA	1:D:4698:LYS:CB	2.87	0.53
1:D:4932:ILE:HG23	1:D:4933:GLN:N	2.23	0.53
1:A:1160:ILE:O	1:A:1178:ALA:HB1	2.08	0.53
1:A:2531:ARG:O	1:A:2532:ALA:C	2.52	0.53
1:A:4829:SER:CB	1:A:4940:PHE:CD1	2.92	0.53
1:B:1093:GLU:O	1:B:1201:HIS:O	2.27	0.53
1:B:1133:HIS:N	1:B:1134:LEU:HA	2.23	0.53
1:B:1164:LEU:N	1:B:1167:GLU:O	2.41	0.53
1:B:1631:GLN:O	1:B:1632:ASP:CB	2.57	0.53
1:B:2109:ASP:O	1:B:2110:TYR:HB3	2.09	0.53
1:C:500:ALA:CB	1:C:515:TRP:HH2	2.20	0.53
1:C:786:GLY:HA2	1:C:1630:CYS:O	2.09	0.53
1:C:4932:ILE:HG23	1:C:4933:GLN:N	2.23	0.53
1:D:538:ALA:O	1:D:539:LEU:C	2.51	0.53
1:D:1133:HIS:N	1:D:1134:LEU:CA	2.72	0.53
1:D:1163:THR:CA	1:D:1168:VAL:HA	2.37	0.53
1:D:1164:LEU:N	1:D:1167:GLU:O	2.41	0.53
1:D:1276:THR:CB	1:D:1563:GLN:CA	2.87	0.53
1:D:3699:HIS:O	1:D:3700:GLN:C	2.51	0.53
1:D:4729:GLY:HA3	1:D:4737:ILE:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:786:GLY:HA2	1:A:1630:CYS:O	2.09	0.53
1:A:4918:ILE:HA	1:B:4891:VAL:HG11	0.66	0.53
1:B:27:THR:CB	1:B:32:GLN:CA	2.85	0.53
1:B:3062:PRO:HA	1:B:3063:ALA:C	2.33	0.53
1:B:3792:ALA:O	1:B:3796:SER:N	2.41	0.53
1:B:4823:LEU:HD13	1:B:4824:ARG:N	2.24	0.53
1:B:4931:ILE:HG22	1:C:4936:ILE:HD11	1.91	0.53
1:B:4967:TYR:OH	1:B:5030:LYS:CA	2.57	0.53
1:C:681:HIS:O	1:C:784:SER:N	2.37	0.53
1:C:1093:GLU:O	1:C:1201:HIS:O	2.27	0.53
1:C:3562:LYS:O	1:C:3565:GLY:N	2.42	0.53
1:C:4632:LEU:N	1:C:4633:GLU:CB	2.72	0.53
1:D:546:TRP:CE3	1:D:547:VAL:CA	2.92	0.53
1:D:1073:ARG:O	1:D:1194:LEU:N	2.42	0.53
1:D:3562:LYS:O	1:D:3565:GLY:N	2.42	0.53
1:D:4093:PHE:CD1	1:D:4093:PHE:C	2.86	0.53
1:D:4852:THR:HG1	1:D:4886:HIS:CG	2.23	0.53
1:A:119:SER:H	1:A:137:LEU:HA	1.74	0.53
1:A:212:GLY:N	1:A:213:TYR:CB	2.72	0.53
1:A:668:VAL:HA	1:A:789:VAL:HA	1.91	0.53
1:A:4554:TYR:O	1:A:4556:SER:N	2.41	0.53
1:A:4823:LEU:HD13	1:A:4824:ARG:N	2.24	0.53
1:A:4944:ARG:NH2	1:D:4942:GLU:HA	2.24	0.53
1:A:5021:PHE:CZ	1:A:5022:PHE:CD1	2.97	0.53
1:B:378:LEU:CB	1:B:379:HIS:CA	2.84	0.53
1:B:1133:HIS:N	1:B:1134:LEU:CA	2.72	0.53
1:B:4181:ILE:CG2	1:B:4193:ILE:N	2.72	0.53
1:C:27:THR:CB	1:C:32:GLN:CA	2.85	0.53
1:C:212:GLY:N	1:C:213:TYR:CB	2.72	0.53
1:C:1719:HIS:N	1:C:1720:LEU:CA	2.72	0.53
1:C:2362:GLU:N	1:C:2363:CYS:CB	2.72	0.53
1:C:4654:ALA:HA	1:C:4657:CYS:SG	2.49	0.53
1:D:668:VAL:HA	1:D:789:VAL:HA	1.91	0.53
1:D:4141:PHE:CE1	1:D:4145:VAL:HG21	2.44	0.53
1:D:4552:LEU:O	1:D:4555:LEU:CB	2.57	0.53
1:D:4632:LEU:N	1:D:4633:GLU:CB	2.72	0.53
1:D:4908:GLU:CB	1:D:4910:GLU:N	2.72	0.53
1:A:404:ILE:CB	1:A:478:PHE:HE1	2.22	0.52
1:A:1454:THR:N	1:A:1457:TYR:CB	2.73	0.52
1:A:1719:HIS:N	1:A:1720:LEU:CA	2.72	0.52
1:A:2200:ALA:O	1:A:2201:LEU:C	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3106:MET:O	1:A:3110:LEU:N	2.36	0.52
1:A:3286:GLU:O	1:A:3289:PRO:CB	2.58	0.52
1:A:4570:ALA:HB2	1:A:4650:HIS:HE1	1.74	0.52
1:A:4729:GLY:HA3	1:A:4737:ILE:HD11	1.91	0.52
1:A:4967:TYR:OH	1:A:5030:LYS:CA	2.57	0.52
1:B:1288:PHE:C	1:B:1553:PHE:CA	2.69	0.52
1:B:2240:CYS:O	1:B:2241:ARG:C	2.52	0.52
1:B:3934:TYR:HD1	1:B:3935:TRP:HE3	1.57	0.52
1:B:4089:SER:CA	1:B:4121:GLU:O	2.54	0.52
1:B:4141:PHE:CE1	1:B:4145:VAL:HG21	2.44	0.52
1:B:4632:LEU:N	1:B:4633:GLU:CB	2.72	0.52
1:C:1631:GLN:O	1:C:1632:ASP:CB	2.57	0.52
1:C:3286:GLU:O	1:C:3289:PRO:CB	2.58	0.52
1:C:4181:ILE:CG2	1:C:4182:GLU:N	2.67	0.52
1:C:4960:ILE:N	1:C:4961:CYS:CB	2.71	0.52
1:D:131:LEU:O	1:D:132:ALA:HB3	2.07	0.52
1:D:379:HIS:N	1:D:380:GLN:CA	2.72	0.52
1:D:2109:ASP:O	1:D:2110:TYR:HB3	2.09	0.52
1:D:4008:SER:N	1:D:4009:GLN:CA	2.71	0.52
1:D:4861:LYS:O	1:D:4862:PHE:HD1	1.92	0.52
1:A:3562:LYS:O	1:A:3565:GLY:N	2.42	0.52
1:A:4125:PHE:O	1:A:4128:PHE:HB2	2.10	0.52
1:A:4552:LEU:O	1:A:4555:LEU:CB	2.57	0.52
1:A:4668:LEU:HD12	1:A:4668:LEU:C	2.30	0.52
1:A:4686:LEU:CB	1:A:4692:PRO:CG	2.81	0.52
1:A:4697:VAL:CG2	1:A:4698:LYS:CB	2.85	0.52
1:B:786:GLY:HA2	1:B:1630:CYS:O	2.09	0.52
1:B:5021:PHE:CZ	1:B:5022:PHE:CD1	2.97	0.52
1:B:5021:PHE:C	1:B:5022:PHE:O	2.28	0.52
1:C:546:TRP:CE3	1:C:547:VAL:CA	2.92	0.52
1:C:1454:THR:N	1:C:1457:TYR:CB	2.73	0.52
1:C:1679:ASN:C	1:C:1681:VAL:N	2.66	0.52
1:C:3934:TYR:HD1	1:C:3935:TRP:HE3	1.57	0.52
1:C:4697:VAL:CA	1:C:4698:LYS:CB	2.87	0.52
1:C:4729:GLY:HA3	1:C:4737:ILE:HD11	1.91	0.52
1:D:634:GLN:C	1:D:1639:LEU:CB	2.81	0.52
1:D:1297:PHE:CG	1:D:1297:PHE:N	2.73	0.52
1:D:4125:PHE:O	1:D:4128:PHE:HB2	2.10	0.52
1:D:4863:TYR:CD1	1:D:4864:ASN:N	2.73	0.52
1:D:4952:GLU:O	1:D:4956:THR:HG23	2.09	0.52
1:A:2278:ALA:C	1:A:2280:VAL:N	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2329:GLU:CB	1:A:2429:LEU:CB	2.87	0.52
1:A:4954:MET:HE3	1:A:4955:GLU:CA	2.39	0.52
1:B:4570:ALA:HB2	1:B:4650:HIS:HE1	1.74	0.52
1:B:4908:GLU:CB	1:B:4910:GLU:N	2.72	0.52
1:B:5010:VAL:CG2	1:B:5011:TRP:N	2.73	0.52
1:C:227:MET:O	1:C:229:GLU:N	2.39	0.52
1:C:245:VAL:C	1:C:247:TYR:H	2.05	0.52
1:C:4554:TYR:O	1:C:4556:SER:N	2.41	0.52
1:C:4685:GLY:N	1:C:4689:THR:CB	2.72	0.52
1:C:4729:GLY:N	1:C:4730:ASP:CB	2.73	0.52
1:C:4823:LEU:HD22	1:C:4823:LEU:C	2.33	0.52
1:C:4967:TYR:OH	1:C:5030:LYS:CA	2.57	0.52
1:C:5010:VAL:CG2	1:C:5011:TRP:N	2.73	0.52
1:D:212:GLY:N	1:D:213:TYR:CB	2.72	0.52
1:D:341:TYR:C	1:D:343:GLU:H	2.14	0.52
1:D:2191:PHE:CD1	1:D:2192:TYR:CE1	2.98	0.52
1:D:2362:GLU:N	1:D:2363:CYS:CB	2.72	0.52
1:D:4885:PHE:CZ	1:D:4889:VAL:CG1	2.89	0.52
1:A:1133:HIS:N	1:A:1134:LEU:CA	2.72	0.52
1:A:1631:GLN:O	1:A:1632:ASP:CB	2.57	0.52
1:B:4093:PHE:C	1:B:4093:PHE:CD1	2.86	0.52
1:B:4729:GLY:N	1:B:4730:ASP:CB	2.73	0.52
1:B:4834:GLY:HA2	1:B:4837:LEU:H	1.73	0.52
1:B:4924:VAL:CG2	1:B:4925:ILE:N	2.73	0.52
1:B:4954:MET:C	1:B:4954:MET:SD	2.93	0.52
1:C:119:SER:H	1:C:137:LEU:HA	1.74	0.52
1:C:668:VAL:HA	1:C:789:VAL:HA	1.92	0.52
1:C:2240:CYS:O	1:C:2241:ARG:C	2.52	0.52
1:C:4552:LEU:O	1:C:4555:LEU:CB	2.57	0.52
1:C:4863:TYR:CD1	1:C:4864:ASN:N	2.73	0.52
1:C:4928:LEU:CA	1:C:4931:ILE:CD1	2.84	0.52
1:C:4930:ALA:HB3	1:D:4936:ILE:CD1	2.24	0.52
1:D:786:GLY:HA2	1:D:1630:CYS:O	2.09	0.52
1:D:2240:CYS:O	1:D:2241:ARG:C	2.52	0.52
1:D:2278:ALA:C	1:D:2280:VAL:N	2.66	0.52
1:D:3286:GLU:O	1:D:3289:PRO:CB	2.58	0.52
1:D:4697:VAL:N	1:D:4699:GLY:H	1.94	0.52
1:D:4829:SER:CB	1:D:4940:PHE:CD1	2.92	0.52
1:A:4654:ALA:HA	1:A:4657:CYS:SG	2.49	0.52
1:A:4926:VAL:CG1	1:A:4927:ILE:N	2.72	0.52
1:A:4944:ARG:NH2	1:D:4942:GLU:CA	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2362:GLU:N	1:B:2363:CYS:CB	2.72	0.52
1:B:4644:TRP:CZ3	1:B:4645:CYS:HA	2.45	0.52
1:B:4885:PHE:CZ	1:B:4889:VAL:CG1	2.89	0.52
1:B:4954:MET:HE3	1:B:4955:GLU:CA	2.39	0.52
1:C:4093:PHE:CD1	1:C:4093:PHE:C	2.86	0.52
1:C:4889:VAL:CG2	1:C:4890:GLY:N	2.73	0.52
1:C:4924:VAL:CG2	1:C:4925:ILE:N	2.73	0.52
1:D:404:ILE:CB	1:D:478:PHE:HE1	2.22	0.52
1:D:1631:GLN:O	1:D:1632:ASP:CB	2.57	0.52
1:D:4156:HIS:CB	1:D:4157:ASP:CA	2.85	0.52
1:D:4823:LEU:HD22	1:D:4823:LEU:C	2.33	0.52
1:A:1073:ARG:O	1:A:1194:LEU:N	2.42	0.52
1:A:3933:PHE:CE2	1:A:3951:PHE:HB2	2.45	0.52
1:A:4184:MET:CA	1:A:5021:PHE:O	2.46	0.52
1:A:4644:TRP:CZ3	1:A:4645:CYS:HA	2.45	0.52
1:A:4729:GLY:CA	1:A:4732:PHE:CB	2.85	0.52
1:B:348:VAL:CB	1:B:349:GLN:CA	2.85	0.52
1:B:1454:THR:N	1:B:1457:TYR:CB	2.73	0.52
1:B:2531:ARG:O	1:B:2532:ALA:C	2.52	0.52
1:B:4125:PHE:O	1:B:4128:PHE:HB2	2.10	0.52
1:B:4729:GLY:HA3	1:B:4737:ILE:HD11	1.91	0.52
1:C:379:HIS:N	1:C:380:GLN:CA	2.72	0.52
1:C:1244:GLN:O	1:C:1604:SER:CA	2.58	0.52
1:C:4125:PHE:O	1:C:4128:PHE:HB2	2.10	0.52
1:D:4644:TRP:CZ3	1:D:4645:CYS:HA	2.45	0.52
1:D:4651:THR:OG1	1:D:4799:SER:OG	2.28	0.52
1:D:4654:ALA:HA	1:D:4657:CYS:SG	2.49	0.52
1:D:4697:VAL:CG2	1:D:4698:LYS:CB	2.85	0.52
1:D:4857:ASN:O	1:D:4858:PHE:HD1	1.87	0.52
1:D:4926:VAL:CG1	1:D:4927:ILE:N	2.72	0.52
1:D:4967:TYR:OH	1:D:5030:LYS:CA	2.57	0.52
1:A:2191:PHE:CD1	1:A:2192:TYR:CE1	2.98	0.52
1:A:2342:ASN:CB	1:A:2343:GLY:CA	2.88	0.52
1:A:2518:LEU:O	1:A:2522:LEU:N	2.41	0.52
1:A:2691:TYR:N	1:A:2694:GLU:CB	2.73	0.52
1:A:4823:LEU:C	1:A:4823:LEU:HD22	2.33	0.52
1:A:4889:VAL:CG2	1:A:4890:GLY:N	2.73	0.52
1:A:4936:ILE:HD11	1:D:4931:ILE:HG22	1.92	0.52
1:A:4954:MET:C	1:A:4954:MET:SD	2.93	0.52
1:B:3933:PHE:CE2	1:B:3951:PHE:HB2	2.45	0.52
1:B:4697:VAL:CA	1:B:4698:LYS:CB	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:609:CYS:N	1:C:610:ASN:CB	2.73	0.52
1:C:788:LYS:CB	1:C:1629:GLN:HA	2.39	0.52
1:C:1643:GLU:N	1:C:1644:GLU:HA	2.24	0.52
1:D:27:THR:CB	1:D:32:GLN:CA	2.85	0.52
1:D:1133:HIS:N	1:D:1134:LEU:HA	2.23	0.52
1:D:1244:GLN:O	1:D:1604:SER:CA	2.58	0.52
1:D:1679:ASN:C	1:D:1681:VAL:N	2.66	0.52
1:D:4197:ILE:CD1	1:D:4990:PHE:CG	2.90	0.52
1:A:1244:GLN:O	1:A:1604:SER:CA	2.57	0.52
1:A:4908:GLU:CB	1:A:4910:GLU:N	2.72	0.52
1:A:4936:ILE:CG2	1:A:4937:ILE:N	2.73	0.52
1:B:2191:PHE:CD1	1:B:2192:TYR:CE1	2.98	0.52
1:B:3679:LYS:O	1:B:3698:LEU:CB	2.58	0.52
1:B:4715:TYR:CE1	1:B:4717:ASP:CB	2.93	0.52
1:B:4889:VAL:CG2	1:B:4890:GLY:N	2.73	0.52
1:B:4922:PHE:CD1	1:B:4922:PHE:C	2.88	0.52
1:C:341:TYR:C	1:C:343:GLU:N	2.68	0.52
1:C:1290:ARG:HA	1:C:1551:ALA:CB	2.34	0.52
1:C:2149:VAL:O	1:C:2150:GLU:C	2.51	0.52
1:C:3679:LYS:O	1:C:3698:LEU:CB	2.58	0.52
1:C:4823:LEU:HD13	1:C:4824:ARG:N	2.24	0.52
1:D:4729:GLY:CA	1:D:4732:PHE:CB	2.85	0.52
1:D:4823:LEU:HD13	1:D:4824:ARG:N	2.24	0.52
1:D:4908:GLU:CB	1:D:4909:TYR:C	2.83	0.52
1:A:379:HIS:N	1:A:380:GLN:CA	2.72	0.52
1:A:2362:GLU:N	1:A:2363:CYS:CB	2.72	0.52
1:A:4924:VAL:CG2	1:A:4925:ILE:N	2.73	0.52
1:A:4952:GLU:O	1:A:4956:THR:HG23	2.10	0.52
1:A:4978:HIS:C	1:A:4978:HIS:CD2	2.88	0.52
1:B:668:VAL:HA	1:B:789:VAL:HA	1.91	0.52
1:B:1708:ARG:O	1:B:1712:TYR:HD2	1.93	0.52
1:B:4654:ALA:HA	1:B:4657:CYS:SG	2.49	0.52
1:B:4926:VAL:CG1	1:B:4927:ILE:N	2.72	0.52
1:B:4968:PHE:HD2	1:B:4978:HIS:HB2	1.71	0.52
1:B:5008:SER:O	1:B:5011:TRP:HB3	2.10	0.52
1:C:1272:LEU:CA	1:C:1273:ALA:CB	2.84	0.52
1:C:1287:LEU:CB	1:C:1553:PHE:CB	2.88	0.52
1:C:2342:ASN:CB	1:C:2343:GLY:CA	2.88	0.52
1:C:3699:HIS:O	1:C:3700:GLN:C	2.51	0.52
1:C:4644:TRP:CZ3	1:C:4645:CYS:HA	2.45	0.52
1:C:4936:ILE:HG23	1:C:4937:ILE:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4954:MET:HE3	1:C:4955:GLU:CA	2.39	0.52
1:C:4978:HIS:C	1:C:4978:HIS:CD2	2.88	0.52
1:D:609:CYS:CB	1:D:610:ASN:HA	2.40	0.52
1:D:1287:LEU:CB	1:D:1553:PHE:CB	2.88	0.52
1:D:2329:GLU:CB	1:D:2429:LEU:CB	2.87	0.52
1:D:2340:PHE:O	1:D:2341:VAL:CB	2.58	0.52
1:D:2342:ASN:CB	1:D:2343:GLY:CA	2.88	0.52
1:D:4954:MET:C	1:D:4954:MET:SD	2.93	0.52
1:A:1093:GLU:CA	1:A:1201:HIS:O	2.58	0.52
1:A:1679:ASN:C	1:A:1681:VAL:N	2.66	0.52
1:A:4632:LEU:N	1:A:4633:GLU:CB	2.72	0.52
1:A:4922:PHE:C	1:A:4922:PHE:CD1	2.88	0.52
1:A:4960:ILE:CB	1:A:4983:HIS:HB3	2.40	0.52
1:A:5010:VAL:CG2	1:A:5011:TRP:N	2.73	0.52
1:B:119:SER:H	1:B:137:LEU:HA	1.74	0.52
1:B:404:ILE:CB	1:B:478:PHE:HE1	2.23	0.52
1:B:546:TRP:CE3	1:B:547:VAL:CA	2.92	0.52
1:B:836:GLY:O	1:B:837:PRO:C	2.53	0.52
1:B:1073:ARG:O	1:B:1194:LEU:N	2.42	0.52
1:B:1643:GLU:N	1:B:1644:GLU:HA	2.24	0.52
1:B:1679:ASN:C	1:B:1681:VAL:N	2.66	0.52
1:B:1719:HIS:N	1:B:1720:LEU:CA	2.72	0.52
1:B:4995:LEU:CD1	1:B:5011:TRP:HZ3	2.12	0.52
1:C:1252:HIS:CB	1:C:1255:TYR:CA	2.85	0.52
1:C:2191:PHE:CD1	1:C:2192:TYR:CE1	2.98	0.52
1:C:4908:GLU:CB	1:C:4910:GLU:N	2.72	0.52
1:C:4930:ALA:HB1	1:D:4936:ILE:CG2	2.14	0.52
1:D:639:ASN:CA	1:D:1634:LEU:O	2.42	0.52
1:D:3679:LYS:O	1:D:3698:LEU:CB	2.58	0.52
1:D:3699:HIS:C	1:D:3701:LEU:N	2.66	0.52
1:D:4960:ILE:CB	1:D:4983:HIS:HB3	2.40	0.52
1:D:5010:VAL:CG2	1:D:5011:TRP:N	2.73	0.52
1:A:546:TRP:CE3	1:A:547:VAL:CA	2.92	0.51
1:A:4930:ALA:HB1	1:B:4936:ILE:HD12	1.80	0.51
1:B:379:HIS:N	1:B:380:GLN:CA	2.72	0.51
1:B:609:CYS:N	1:B:610:ASN:CB	2.73	0.51
1:B:1933:GLU:O	1:B:1934:SER:C	2.52	0.51
1:B:3765:TYR:HE1	1:B:3769:ARG:NH1	2.08	0.51
1:B:4697:VAL:CG2	1:B:4698:LYS:CB	2.85	0.51
1:C:74:SER:O	1:C:77:ALA:N	2.43	0.51
1:C:1125:ASN:N	1:C:1130:GLN:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4104:THR:O	1:C:4108:ILE:N	2.42	0.51
1:C:4908:GLU:CB	1:C:4909:TYR:C	2.83	0.51
1:C:4925:ILE:CD1	1:C:4925:ILE:H	2.18	0.51
1:D:74:SER:O	1:D:77:ALA:N	2.43	0.51
1:D:503:PHE:O	1:D:504:ALA:HB3	2.10	0.51
1:D:1708:ARG:O	1:D:1712:TYR:HD2	1.93	0.51
1:D:1803:PRO:O	1:D:1807:LEU:N	2.37	0.51
1:D:2452:ARG:CA	1:D:2453:ILE:CB	2.88	0.51
1:D:4103:PHE:HB3	1:D:4108:ILE:HG22	1.92	0.51
1:D:4729:GLY:N	1:D:4730:ASP:CB	2.73	0.51
1:D:5008:SER:O	1:D:5011:TRP:HB3	2.10	0.51
1:A:74:SER:O	1:A:77:ALA:N	2.43	0.51
1:A:500:ALA:HB1	1:A:515:TRP:CZ3	2.43	0.51
1:A:3934:TYR:CD1	1:A:3935:TRP:HE3	2.28	0.51
1:A:4729:GLY:N	1:A:4730:ASP:CB	2.73	0.51
1:A:5023:PRO:O	1:A:5024:ALA:HB2	2.11	0.51
1:B:500:ALA:CB	1:B:515:TRP:HH2	2.21	0.51
1:B:789:VAL:O	1:B:1627:ALA:HA	2.03	0.51
1:B:1252:HIS:CB	1:B:1255:TYR:CA	2.85	0.51
1:B:2329:GLU:CB	1:B:2429:LEU:CB	2.87	0.51
1:B:4552:LEU:O	1:B:4555:LEU:CB	2.57	0.51
1:B:4960:ILE:CB	1:B:4983:HIS:HB3	2.40	0.51
1:C:253:CYS:C	1:C:255:HIS:CB	2.84	0.51
1:C:1073:ARG:O	1:C:1194:LEU:N	2.42	0.51
1:C:2329:GLU:CB	1:C:2429:LEU:CB	2.87	0.51
1:C:2340:PHE:O	1:C:2341:VAL:CB	2.58	0.51
1:C:4008:SER:N	1:C:4009:GLN:HA	2.24	0.51
1:C:4132:PHE:CD1	1:C:4132:PHE:N	2.73	0.51
1:C:4243:PHE:C	1:C:4243:PHE:CD1	2.85	0.51
1:C:4946:GLN:O	1:C:4949:GLN:HB3	2.10	0.51
1:C:4954:MET:C	1:C:4954:MET:SD	2.93	0.51
1:D:1125:ASN:N	1:D:1130:GLN:O	2.43	0.51
1:D:2691:TYR:N	1:D:2694:GLU:CB	2.73	0.51
1:D:4928:LEU:CA	1:D:4931:ILE:CD1	2.84	0.51
1:A:609:CYS:CB	1:A:610:ASN:HA	2.40	0.51
1:A:1708:ARG:O	1:A:1712:TYR:HD2	1.93	0.51
1:A:2920:ARG:HA	1:A:2923:ALA:HB3	1.92	0.51
1:A:4847:VAL:HG13	1:A:4848:VAL:N	2.26	0.51
1:A:4908:GLU:CB	1:A:4909:TYR:C	2.83	0.51
1:B:485:SER:C	1:B:487:VAL:N	2.63	0.51
1:B:1125:ASN:N	1:B:1130:GLN:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1829:PRO:CB	1:B:1832:GLY:HA2	2.41	0.51
1:B:2920:ARG:HA	1:B:2923:ALA:HB3	1.92	0.51
1:B:5023:PRO:O	1:B:5024:ALA:HB2	2.11	0.51
1:C:1708:ARG:O	1:C:1712:TYR:HD2	1.93	0.51
1:C:2278:ALA:C	1:C:2280:VAL:N	2.66	0.51
1:C:3933:PHE:CE2	1:C:3951:PHE:HB2	2.45	0.51
1:C:4570:ALA:HB2	1:C:4650:HIS:HE1	1.74	0.51
1:C:5008:SER:O	1:C:5011:TRP:HB3	2.10	0.51
1:D:1933:GLU:O	1:D:1934:SER:C	2.52	0.51
1:D:3933:PHE:CE2	1:D:3951:PHE:HB2	2.45	0.51
1:D:4125:PHE:HA	1:D:4128:PHE:HB2	1.93	0.51
1:D:4132:PHE:CD1	1:D:4132:PHE:N	2.73	0.51
1:D:4995:LEU:HD13	1:D:5011:TRP:CZ3	2.41	0.51
1:A:609:CYS:N	1:A:610:ASN:CB	2.73	0.51
1:A:2109:ASP:O	1:A:2110:TYR:HB3	2.09	0.51
1:A:2340:PHE:O	1:A:2341:VAL:CB	2.58	0.51
1:A:4930:ALA:HB1	1:B:4936:ILE:HD13	1.92	0.51
1:B:253:CYS:C	1:B:255:HIS:CB	2.84	0.51
1:B:1272:LEU:CA	1:B:1273:ALA:CB	2.84	0.51
1:B:1290:ARG:N	1:B:1551:ALA:CB	2.57	0.51
1:B:3286:GLU:O	1:B:3289:PRO:CB	2.58	0.51
1:B:3933:PHE:CZ	1:B:3951:PHE:CE2	2.85	0.51
1:B:4768:LEU:CD1	1:B:4769:MET:N	2.73	0.51
1:B:4920:PHE:CD1	1:B:4920:PHE:C	2.89	0.51
1:C:4920:PHE:C	1:C:4920:PHE:CD1	2.89	0.51
1:C:4960:ILE:CB	1:C:4983:HIS:HB3	2.40	0.51
1:D:1244:GLN:O	1:D:1604:SER:C	2.54	0.51
1:D:1454:THR:N	1:D:1457:TYR:CB	2.73	0.51
1:D:1643:GLU:N	1:D:1644:GLU:HA	2.24	0.51
1:D:2531:ARG:O	1:D:2532:ALA:C	2.52	0.51
1:D:4773:VAL:HG12	1:D:4774:LYS:N	2.26	0.51
1:D:5021:PHE:CZ	1:D:5022:PHE:CD1	2.97	0.51
1:A:227:MET:O	1:A:229:GLU:N	2.39	0.51
1:A:634:GLN:C	1:A:1639:LEU:CB	2.81	0.51
1:A:3679:LYS:O	1:A:3698:LEU:CB	2.58	0.51
1:A:3765:TYR:HE1	1:A:3769:ARG:NH1	2.08	0.51
1:A:4181:ILE:CG2	1:A:4193:ILE:N	2.72	0.51
1:A:4995:LEU:CD1	1:A:5011:TRP:HZ3	2.16	0.51
1:B:4103:PHE:HB3	1:B:4108:ILE:HG22	1.92	0.51
1:B:4147:LEU:HD13	1:B:4147:LEU:O	2.11	0.51
1:B:4173:TYR:HD2	1:B:4174:PHE:CE1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4729:GLY:CA	1:B:4732:PHE:CB	2.85	0.51
1:B:4908:GLU:CB	1:B:4909:TYR:C	2.83	0.51
1:B:4936:ILE:HG23	1:B:4937:ILE:N	2.24	0.51
1:C:4697:VAL:N	1:C:4699:GLY:H	1.94	0.51
1:C:4829:SER:CB	1:C:4940:PHE:CD1	2.93	0.51
1:D:3934:TYR:CD1	1:D:3935:TRP:HE3	2.28	0.51
1:D:4008:SER:N	1:D:4009:GLN:HA	2.24	0.51
1:D:4715:TYR:CE1	1:D:4717:ASP:CB	2.92	0.51
1:D:4920:PHE:CD1	1:D:4920:PHE:C	2.89	0.51
1:A:341:TYR:C	1:A:343:GLU:N	2.68	0.51
1:A:404:ILE:CB	1:A:478:PHE:CZ	2.94	0.51
1:A:1272:LEU:CA	1:A:1273:ALA:CB	2.84	0.51
1:A:2452:ARG:CA	1:A:2453:ILE:CB	2.88	0.51
1:A:4008:SER:N	1:A:4009:GLN:HA	2.24	0.51
1:A:4104:THR:O	1:A:4108:ILE:N	2.42	0.51
1:A:4861:LYS:O	1:A:4862:PHE:HD1	1.92	0.51
1:B:77:ALA:N	1:C:3935:TRP:CD1	2.68	0.51
1:B:1564:PHE:CD1	1:B:1564:PHE:N	2.76	0.51
1:B:2463:LEU:N	1:B:2464:ASP:CA	2.74	0.51
1:B:2691:TYR:N	1:B:2694:GLU:CB	2.73	0.51
1:B:4978:HIS:C	1:B:4978:HIS:CD2	2.88	0.51
1:C:503:PHE:O	1:C:504:ALA:HB3	2.10	0.51
1:C:2531:ARG:O	1:C:2532:ALA:C	2.52	0.51
1:C:4930:ALA:HB1	1:D:4936:ILE:HD13	1.93	0.51
1:D:341:TYR:C	1:D:343:GLU:N	2.68	0.51
1:D:3103:ILE:O	1:D:3107:VAL:N	2.36	0.51
1:D:4889:VAL:CG2	1:D:4890:GLY:N	2.73	0.51
1:A:253:CYS:C	1:A:255:HIS:CB	2.84	0.51
1:A:1276:THR:CB	1:A:1563:GLN:CA	2.87	0.51
1:A:1933:GLU:O	1:A:1934:SER:C	2.52	0.51
1:A:4147:LEU:HD13	1:A:4147:LEU:O	2.11	0.51
1:B:74:SER:O	1:B:77:ALA:N	2.43	0.51
1:B:2342:ASN:CB	1:B:2343:GLY:CA	2.88	0.51
1:B:2452:ARG:CA	1:B:2453:ILE:CB	2.88	0.51
1:B:4861:LYS:O	1:B:4862:PHE:HD1	1.92	0.51
1:B:4918:ILE:HA	1:C:4891:VAL:HG11	0.67	0.51
1:C:609:CYS:CB	1:C:610:ASN:HA	2.40	0.51
1:C:4173:TYR:HD2	1:C:4174:PHE:CE1	2.29	0.51
1:C:4926:VAL:CG1	1:C:4927:ILE:N	2.72	0.51
1:C:5021:PHE:CZ	1:C:5022:PHE:CD1	2.97	0.51
1:C:5031:GLN:NE2	1:C:5032:TYR:CD1	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:CYS:C	1:D:255:HIS:CB	2.84	0.51
1:D:3792:ALA:O	1:D:3796:SER:N	2.41	0.51
1:D:4570:ALA:HB2	1:D:4650:HIS:HE1	1.74	0.51
1:D:4847:VAL:HG13	1:D:4848:VAL:N	2.26	0.51
1:D:4924:VAL:CG2	1:D:4925:ILE:N	2.73	0.51
1:A:243:ARG:CB	1:A:301:VAL:H	2.24	0.51
1:A:538:ALA:O	1:A:539:LEU:C	2.51	0.51
1:A:1287:LEU:CB	1:A:1553:PHE:CB	2.88	0.51
1:A:1829:PRO:CB	1:A:1832:GLY:HA2	2.41	0.51
1:A:2168:VAL:CB	1:A:2169:GLN:CA	2.89	0.51
1:A:4768:LEU:CD1	1:A:4769:MET:N	2.73	0.51
1:B:4243:PHE:CD2	1:B:4671:PHE:CD1	2.84	0.51
1:C:77:ALA:N	1:D:3935:TRP:CD1	2.68	0.51
1:C:2452:ARG:CA	1:C:2453:ILE:CB	2.88	0.51
1:C:4914:VAL:CG2	1:D:4888:TYR:CD2	2.65	0.51
1:C:4936:ILE:CG2	1:C:4937:ILE:N	2.73	0.51
1:D:609:CYS:N	1:D:610:ASN:CB	2.73	0.51
1:D:4978:HIS:C	1:D:4978:HIS:CD2	2.88	0.51
1:A:1087:ARG:O	1:A:1223:PHE:HA	2.11	0.51
1:A:1126:GLY:O	1:A:1143:TRP:CB	2.58	0.51
1:A:2459:SER:O	1:A:2461:VAL:O	2.29	0.51
1:A:4208:PRO:CG	1:A:4209:GLN:H	2.24	0.51
1:A:4728:HIS:C	1:A:4730:ASP:CB	2.84	0.51
1:A:4773:VAL:HG12	1:A:4774:LYS:N	2.26	0.51
1:B:609:CYS:CB	1:B:610:ASN:HA	2.40	0.51
1:B:2192:TYR:O	1:B:2193:GLN:CB	2.59	0.51
1:B:2459:SER:O	1:B:2461:VAL:O	2.29	0.51
1:C:3699:HIS:C	1:C:3701:LEU:N	2.66	0.51
1:C:4682:GLU:HA	1:C:4724:VAL:HG11	1.93	0.51
1:D:111:HIS:CB	1:D:114:SER:N	2.74	0.51
1:D:2518:LEU:O	1:D:2522:LEU:N	2.41	0.51
1:D:3104:GLU:O	1:D:3108:GLU:N	2.36	0.51
1:A:4141:PHE:HB2	1:A:4174:PHE:CE2	2.46	0.51
1:A:4920:PHE:CD1	1:A:4920:PHE:C	2.89	0.51
1:A:5008:SER:O	1:A:5011:TRP:HB3	2.10	0.51
1:B:503:PHE:O	1:B:504:ALA:HB3	2.10	0.51
1:B:538:ALA:O	1:B:539:LEU:C	2.51	0.51
1:B:1126:GLY:O	1:B:1143:TRP:CB	2.58	0.51
1:B:1276:THR:CB	1:B:1563:GLN:CA	2.87	0.51
1:B:1287:LEU:CB	1:B:1553:PHE:CB	2.88	0.51
1:B:1749:PRO:C	1:B:1751:GLY:H	2.13	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3934:TYR:CD1	1:B:3935:TRP:HE3	2.28	0.51
1:B:4197:ILE:CD1	1:B:4990:PHE:CG	2.90	0.51
1:C:132:ALA:C	1:C:133:PHE:CG	2.89	0.51
1:C:1087:ARG:O	1:C:1223:PHE:HA	2.11	0.51
1:C:1093:GLU:CA	1:C:1201:HIS:O	2.58	0.51
1:C:2691:TYR:N	1:C:2694:GLU:CB	2.73	0.51
1:C:3765:TYR:HE1	1:C:3769:ARG:NH1	2.08	0.51
1:C:4147:LEU:HD13	1:C:4147:LEU:O	2.11	0.51
1:C:5018:CYS:C	1:C:5019:TRP:HD1	2.19	0.51
1:D:1708:ARG:HG2	1:D:1712:TYR:CD2	2.46	0.51
1:D:3106:MET:O	1:D:3110:LEU:N	2.36	0.51
1:D:3765:TYR:HE1	1:D:3769:ARG:NH1	2.08	0.51
1:D:3765:TYR:HE1	1:D:3769:ARG:HH12	1.59	0.51
1:D:4682:GLU:HA	1:D:4724:VAL:HG11	1.93	0.51
1:D:4768:LEU:CD1	1:D:4769:MET:N	2.73	0.51
1:D:4954:MET:HE3	1:D:4955:GLU:CA	2.39	0.51
1:D:4978:HIS:O	1:D:4982:GLU:N	2.44	0.51
1:A:27:THR:CB	1:A:32:GLN:CA	2.85	0.50
1:A:1244:GLN:O	1:A:1604:SER:C	2.54	0.50
1:A:4239:GLU:O	1:A:4240:ASP:C	2.54	0.50
1:B:243:ARG:CB	1:B:301:VAL:H	2.24	0.50
1:B:1244:GLN:O	1:B:1604:SER:C	2.54	0.50
1:B:1244:GLN:O	1:B:1604:SER:CA	2.57	0.50
1:B:4863:TYR:CD1	1:B:4864:ASN:N	2.73	0.50
1:B:4942:GLU:CA	1:C:4944:ARG:NH2	2.74	0.50
1:C:593:HIS:HA	1:C:1597:VAL:CB	2.41	0.50
1:C:1829:PRO:CB	1:C:1832:GLY:HA2	2.41	0.50
1:C:3893:GLU:C	1:C:3895:HIS:H	2.19	0.50
1:C:4103:PHE:HB3	1:C:4108:ILE:HG22	1.92	0.50
1:C:4697:VAL:CG2	1:C:4698:LYS:CB	2.85	0.50
1:C:4922:PHE:C	1:C:4922:PHE:CD1	2.88	0.50
1:C:4978:HIS:O	1:C:4982:GLU:N	2.44	0.50
1:D:379:HIS:CB	1:D:380:GLN:C	2.85	0.50
1:D:989:ALA:O	1:D:993:HIS:N	2.40	0.50
1:D:2168:VAL:CB	1:D:2169:GLN:CA	2.89	0.50
1:D:2463:LEU:N	1:D:2464:ASP:CA	2.74	0.50
1:D:3934:TYR:CE2	1:D:3998:HIS:HB3	2.46	0.50
1:D:4243:PHE:CD2	1:D:4671:PHE:CE1	2.89	0.50
1:A:113:HIS:N	1:A:114:SER:CA	2.72	0.50
1:A:2191:PHE:HD1	1:A:2192:TYR:HD1	1.50	0.50
1:A:4235:VAL:CB	1:A:5019:TRP:HZ3	2.04	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2149:VAL:O	1:B:2150:GLU:C	2.51	0.50
1:C:404:ILE:CB	1:C:478:PHE:CZ	2.94	0.50
1:C:2192:TYR:O	1:C:2193:GLN:CB	2.59	0.50
1:D:1642:PRO:C	1:D:1644:GLU:CB	2.85	0.50
1:D:1829:PRO:CB	1:D:1832:GLY:HA2	2.41	0.50
1:D:4773:VAL:O	1:D:4775:TYR:N	2.45	0.50
1:A:838:HIS:CA	1:A:1200:GLY:O	2.59	0.50
1:A:1708:ARG:HG2	1:A:1712:TYR:CD2	2.46	0.50
1:A:2463:LEU:N	1:A:2464:ASP:CA	2.74	0.50
1:A:3765:TYR:HE1	1:A:3769:ARG:HH12	1.59	0.50
1:B:1093:GLU:CA	1:B:1201:HIS:O	2.58	0.50
1:B:1163:THR:CA	1:B:1168:VAL:HA	2.37	0.50
1:B:4008:SER:N	1:B:4009:GLN:HA	2.24	0.50
1:C:721:LEU:N	1:C:728:ARG:O	2.45	0.50
1:C:2125:HIS:CB	1:C:3725:TYR:OH	2.59	0.50
1:C:4141:PHE:HB2	1:C:4174:PHE:CE2	2.46	0.50
1:C:4184:MET:CA	1:C:5021:PHE:O	2.46	0.50
1:D:1093:GLU:CA	1:D:1201:HIS:O	2.58	0.50
1:D:1288:PHE:C	1:D:1553:PHE:CA	2.69	0.50
1:D:4115:SER:CA	1:D:4128:PHE:CE2	2.76	0.50
1:D:4728:HIS:C	1:D:4730:ASP:CB	2.84	0.50
1:D:4851:TYR:O	1:D:4854:VAL:CG2	2.56	0.50
1:A:483:MET:O	1:A:484:LEU:C	2.54	0.50
1:A:3103:ILE:O	1:A:3107:VAL:N	2.36	0.50
1:A:4996:ILE:C	1:A:4997:ASN:OD1	2.54	0.50
1:B:113:HIS:N	1:B:114:SER:CA	2.72	0.50
1:B:379:HIS:CB	1:B:380:GLN:C	2.85	0.50
1:B:1087:ARG:O	1:B:1223:PHE:HA	2.11	0.50
1:B:1165:ASN:C	1:B:1167:GLU:CB	2.84	0.50
1:B:2168:VAL:CB	1:B:2169:GLN:CA	2.89	0.50
1:B:4690:GLU:O	1:B:4691:GLN:O	2.30	0.50
1:B:4823:LEU:HD22	1:B:4823:LEU:C	2.33	0.50
1:C:1126:GLY:O	1:C:1143:TRP:CB	2.58	0.50
1:C:1165:ASN:C	1:C:1167:GLU:CB	2.84	0.50
1:C:1708:ARG:HG2	1:C:1712:TYR:CD2	2.46	0.50
1:C:4715:TYR:CE1	1:C:4717:ASP:CB	2.93	0.50
1:C:4968:PHE:CB	1:C:4975:PHE:HA	2.25	0.50
1:D:252:VAL:C	1:D:255:HIS:CB	2.85	0.50
1:D:404:ILE:CB	1:D:478:PHE:CZ	2.94	0.50
1:D:721:LEU:N	1:D:728:ARG:O	2.45	0.50
1:D:1126:GLY:O	1:D:1143:TRP:CB	2.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2149:VAL:O	1:D:2150:GLU:C	2.51	0.50
1:D:4141:PHE:HB2	1:D:4174:PHE:CE2	2.46	0.50
1:D:4147:LEU:HD13	1:D:4147:LEU:O	2.11	0.50
1:A:132:ALA:C	1:A:133:PHE:CG	2.89	0.50
1:A:593:HIS:HA	1:A:1597:VAL:CB	2.41	0.50
1:A:2125:HIS:CB	1:A:3725:TYR:OH	2.59	0.50
1:B:2340:PHE:O	1:B:2341:VAL:CB	2.58	0.50
1:B:2518:LEU:O	1:B:2522:LEU:N	2.41	0.50
1:B:4685:GLY:N	1:B:4689:THR:CB	2.72	0.50
1:C:111:HIS:CB	1:C:114:SER:N	2.74	0.50
1:C:211:GLU:C	1:C:213:TYR:CB	2.85	0.50
1:C:219:VAL:CB	1:C:261:ARG:CA	2.89	0.50
1:C:2168:VAL:CB	1:C:2169:GLN:CA	2.89	0.50
1:C:3106:MET:O	1:C:3110:LEU:N	2.36	0.50
1:C:3765:TYR:HE1	1:C:3769:ARG:HH12	1.59	0.50
1:C:3795:SER:CB	1:C:3880:PHE:CD2	2.95	0.50
1:C:4690:GLU:O	1:C:4691:GLN:O	2.30	0.50
1:D:211:GLU:C	1:D:213:TYR:CB	2.85	0.50
1:D:788:LYS:CB	1:D:1629:GLN:HA	2.39	0.50
1:D:3893:GLU:C	1:D:3895:HIS:H	2.19	0.50
1:D:4173:TYR:HD2	1:D:4174:PHE:CE1	2.29	0.50
1:D:4555:LEU:C	1:D:4558:ASN:CB	2.85	0.50
1:D:4944:ARG:C	1:D:4944:ARG:CD	2.85	0.50
1:A:379:HIS:CB	1:A:380:GLN:C	2.85	0.50
1:A:4103:PHE:HB3	1:A:4108:ILE:HG22	1.92	0.50
1:B:404:ILE:CB	1:B:478:PHE:CZ	2.94	0.50
1:B:2168:VAL:CB	1:B:2169:GLN:C	2.85	0.50
1:B:3103:ILE:O	1:B:3107:VAL:N	2.36	0.50
1:B:3104:GLU:O	1:B:3108:GLU:N	2.36	0.50
1:B:4141:PHE:HB2	1:B:4174:PHE:CE2	2.46	0.50
1:B:4773:VAL:O	1:B:4775:TYR:N	2.45	0.50
1:B:4773:VAL:HG12	1:B:4774:LYS:N	2.26	0.50
1:C:1244:GLN:O	1:C:1604:SER:C	2.54	0.50
1:C:1679:ASN:O	1:C:1681:VAL:N	2.45	0.50
1:C:3934:TYR:CE2	1:C:3998:HIS:HB3	2.46	0.50
1:C:5023:PRO:O	1:C:5024:ALA:HB2	2.11	0.50
1:D:227:MET:O	1:D:229:GLU:N	2.39	0.50
1:D:1165:ASN:C	1:D:1167:GLU:CB	2.84	0.50
1:D:2168:VAL:CB	1:D:2169:GLN:C	2.85	0.50
1:D:4208:PRO:CG	1:D:4209:GLN:H	2.24	0.50
1:D:4995:LEU:HD11	1:D:5011:TRP:HE3	0.63	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:HIS:CB	1:A:114:SER:N	2.74	0.50
1:A:211:GLU:C	1:A:213:TYR:CB	2.85	0.50
1:A:534:ARG:O	1:A:537:CYS:CB	2.60	0.50
1:A:1642:PRO:C	1:A:1644:GLU:CB	2.85	0.50
1:A:2278:ALA:C	1:A:2280:VAL:H	2.20	0.50
1:A:4555:LEU:C	1:A:4558:ASN:CB	2.85	0.50
1:A:4794:TRP:CE3	1:A:4795:TYR:CA	2.95	0.50
1:B:111:HIS:CB	1:B:114:SER:N	2.74	0.50
1:B:1133:HIS:CB	1:B:1134:LEU:C	2.85	0.50
1:B:3893:GLU:C	1:B:3895:HIS:H	2.19	0.50
1:B:4125:PHE:HA	1:B:4128:PHE:HB2	1.93	0.50
1:B:4665:LYS:O	1:B:4669:VAL:HG23	2.12	0.50
1:B:4794:TRP:CE3	1:B:4795:TYR:CA	2.95	0.50
1:B:4803:HIS:HD2	1:B:4804:TYR:N	2.09	0.50
1:C:379:HIS:CB	1:C:380:GLN:C	2.84	0.50
1:C:1642:PRO:C	1:C:1644:GLU:CB	2.85	0.50
1:C:3934:TYR:CD1	1:C:3935:TRP:HE3	2.28	0.50
1:C:4183:ILE:N	1:C:4183:ILE:CD1	2.72	0.50
1:D:132:ALA:C	1:D:133:PHE:CG	2.89	0.50
1:D:593:HIS:HA	1:D:1597:VAL:CB	2.41	0.50
1:D:836:GLY:O	1:D:837:PRO:C	2.53	0.50
1:D:1087:ARG:O	1:D:1223:PHE:HA	2.11	0.50
1:D:1679:ASN:O	1:D:1681:VAL:N	2.45	0.50
1:D:2278:ALA:C	1:D:2280:VAL:H	2.19	0.50
1:D:2459:SER:O	1:D:2461:VAL:O	2.29	0.50
1:D:5023:PRO:O	1:D:5024:ALA:HB2	2.11	0.50
1:A:503:PHE:O	1:A:504:ALA:HB3	2.10	0.50
1:A:1125:ASN:N	1:A:1130:GLN:O	2.43	0.50
1:A:2149:VAL:O	1:A:2150:GLU:C	2.51	0.50
1:A:4665:LYS:O	1:A:4669:VAL:HG23	2.12	0.50
1:A:4690:GLU:O	1:A:4691:GLN:O	2.30	0.50
1:A:4832:HIS:ND1	1:A:4833:ASN:N	2.60	0.50
1:A:4863:TYR:CD1	1:A:4864:ASN:N	2.73	0.50
1:A:4932:ILE:CG2	1:A:4933:GLN:N	2.75	0.50
1:B:1642:PRO:C	1:B:1644:GLU:CB	2.85	0.50
1:B:2454:ARG:C	1:B:2454:ARG:CD	2.85	0.50
1:B:4007:SER:C	1:B:4009:GLN:CB	2.85	0.50
1:B:4725:LEU:O	1:B:4728:HIS:O	2.30	0.50
1:C:1133:HIS:CB	1:C:1134:LEU:C	2.85	0.50
1:C:1716:ILE:O	1:C:1721:GLU:N	2.35	0.50
1:C:2168:VAL:CB	1:C:2169:GLN:C	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4773:VAL:O	1:C:4775:TYR:N	2.45	0.50
1:C:4954:MET:C	1:C:4954:MET:CE	2.85	0.50
1:D:4181:ILE:CG2	1:D:4193:ILE:N	2.72	0.50
1:A:1165:ASN:C	1:A:1167:GLU:CB	2.84	0.50
1:A:1287:LEU:CB	1:A:1288:PHE:HA	2.42	0.50
1:A:1679:ASN:O	1:A:1681:VAL:N	2.45	0.50
1:A:2770:LYS:O	1:A:2775:TRP:CB	2.60	0.50
1:A:3893:GLU:C	1:A:3895:HIS:H	2.19	0.50
1:A:3934:TYR:CE2	1:A:3998:HIS:HB3	2.46	0.50
1:A:4125:PHE:HA	1:A:4128:PHE:HB2	1.93	0.50
1:A:4146:LEU:HD23	1:A:4147:LEU:N	2.27	0.50
1:A:4682:GLU:HA	1:A:4724:VAL:HG11	1.93	0.50
1:A:4908:GLU:CB	1:A:4909:TYR:HB2	2.42	0.50
1:B:252:VAL:C	1:B:255:HIS:CB	2.85	0.50
1:B:3378:GLN:O	1:B:3379:LEU:C	2.55	0.50
1:B:3699:HIS:C	1:B:3701:LEU:N	2.66	0.50
1:B:4239:GLU:O	1:B:4240:ASP:C	2.54	0.50
1:B:4851:TYR:O	1:B:4854:VAL:CG2	2.56	0.50
1:B:4948:GLU:OE1	1:B:4949:GLN:HA	2.12	0.50
1:B:4978:HIS:O	1:B:4982:GLU:N	2.44	0.50
1:C:113:HIS:N	1:C:114:SER:CA	2.72	0.50
1:C:243:ARG:CB	1:C:301:VAL:H	2.24	0.50
1:C:252:VAL:C	1:C:255:HIS:CB	2.85	0.50
1:C:2278:ALA:C	1:C:2280:VAL:H	2.20	0.50
1:C:2459:SER:O	1:C:2461:VAL:O	2.29	0.50
1:C:4007:SER:C	1:C:4009:GLN:CB	2.85	0.50
1:C:4239:GLU:O	1:C:4240:ASP:C	2.54	0.50
1:C:4773:VAL:HG12	1:C:4774:LYS:N	2.26	0.50
1:D:113:HIS:N	1:D:114:SER:CA	2.72	0.50
1:D:243:ARG:CB	1:D:301:VAL:H	2.24	0.50
1:D:534:ARG:O	1:D:537:CYS:CB	2.60	0.50
1:D:838:HIS:CA	1:D:1200:GLY:O	2.59	0.50
1:D:1133:HIS:CB	1:D:1134:LEU:C	2.85	0.50
1:D:1515:VAL:CB	1:D:1529:PHE:CA	2.89	0.50
1:D:2192:TYR:O	1:D:2193:GLN:CB	2.59	0.50
1:D:4922:PHE:CD1	1:D:4922:PHE:C	2.88	0.50
1:A:1564:PHE:HD1	1:A:1564:PHE:N	2.10	0.49
1:A:4803:HIS:HD2	1:A:4804:TYR:N	2.09	0.49
1:A:4851:TYR:O	1:A:4854:VAL:CG2	2.56	0.49
1:A:4978:HIS:O	1:A:4982:GLU:N	2.44	0.49
1:B:132:ALA:C	1:B:133:PHE:CG	2.89	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:534:ARG:O	1:B:537:CYS:CB	2.60	0.49
1:B:4132:PHE:CD1	1:B:4132:PHE:N	2.73	0.49
1:B:4682:GLU:HA	1:B:4724:VAL:HG11	1.93	0.49
1:B:4928:LEU:CA	1:B:4931:ILE:HD13	2.42	0.49
1:B:4932:ILE:CG2	1:B:4933:GLN:N	2.75	0.49
1:C:17:ASP:CA	1:C:69:LEU:O	2.60	0.49
1:C:483:MET:O	1:C:484:LEU:C	2.54	0.49
1:C:634:GLN:C	1:C:1639:LEU:CB	2.81	0.49
1:C:838:HIS:CA	1:C:1200:GLY:O	2.59	0.49
1:C:2342:ASN:CA	1:C:2343:GLY:C	2.85	0.49
1:C:3833:GLN:CA	1:C:3833:GLN:NE2	2.73	0.49
1:C:4832:HIS:ND1	1:C:4833:ASN:N	2.60	0.49
1:D:71:GLN:C	1:D:106:ALA:O	2.51	0.49
1:D:1161:ILE:HA	1:D:1178:ALA:HB3	1.83	0.49
1:D:4239:GLU:O	1:D:4240:ASP:C	2.54	0.49
1:D:4768:LEU:CD1	1:D:4770:SER:N	2.73	0.49
1:D:4803:HIS:HD2	1:D:4804:TYR:N	2.09	0.49
1:D:4908:GLU:CB	1:D:4909:TYR:HB2	2.42	0.49
1:A:721:LEU:N	1:A:728:ARG:O	2.45	0.49
1:A:836:GLY:O	1:A:837:PRO:C	2.53	0.49
1:A:1133:HIS:CB	1:A:1134:LEU:C	2.85	0.49
1:A:1287:LEU:CB	1:A:1288:PHE:CA	2.90	0.49
1:A:3699:HIS:C	1:A:3701:LEU:N	2.66	0.49
1:A:3763:LEU:C	1:A:3763:LEU:CD2	2.85	0.49
1:A:4181:ILE:HG13	1:A:4194:TYR:HA	1.89	0.49
1:A:4888:TYR:CD2	1:D:4914:VAL:CG2	2.66	0.49
1:B:721:LEU:N	1:B:728:ARG:O	2.45	0.49
1:B:3765:TYR:HE1	1:B:3769:ARG:HH12	1.59	0.49
1:B:3934:TYR:CE2	1:B:3998:HIS:HB3	2.46	0.49
1:B:4555:LEU:C	1:B:4558:ASN:CB	2.85	0.49
1:B:4728:HIS:C	1:B:4730:ASP:CB	2.84	0.49
1:B:4832:HIS:ND1	1:B:4833:ASN:N	2.60	0.49
1:B:4918:ILE:CG2	1:B:4919:THR:N	2.76	0.49
1:B:4942:GLU:HA	1:C:4944:ARG:NH2	2.27	0.49
1:C:24:CYS:N	1:C:35:LEU:O	2.32	0.49
1:C:485:SER:C	1:C:487:VAL:N	2.63	0.49
1:C:488:LEU:O	1:C:491:ILE:CB	2.60	0.49
1:C:1564:PHE:HD1	1:C:1564:PHE:N	2.10	0.49
1:C:2102:VAL:CA	1:C:2105:TRP:CD1	2.84	0.49
1:C:2770:LYS:O	1:C:2775:TRP:CB	2.60	0.49
1:C:3893:GLU:O	1:C:3895:HIS:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4932:ILE:CG2	1:C:4933:GLN:N	2.75	0.49
1:C:4934:GLY:HA3	1:D:4937:ILE:HD13	1.91	0.49
1:D:916:PRO:C	1:D:919:ASN:CB	2.85	0.49
1:D:2770:LYS:O	1:D:2775:TRP:CB	2.60	0.49
1:D:3763:LEU:C	1:D:3763:LEU:CD2	2.85	0.49
1:D:4665:LYS:O	1:D:4669:VAL:HG23	2.12	0.49
1:D:4690:GLU:O	1:D:4691:GLN:O	2.30	0.49
1:D:4968:PHE:CB	1:D:4975:PHE:HA	2.25	0.49
1:A:916:PRO:C	1:A:919:ASN:CB	2.86	0.49
1:A:3795:SER:CB	1:A:3880:PHE:CD2	2.95	0.49
1:A:4007:SER:C	1:A:4009:GLN:CB	2.85	0.49
1:A:4173:TYR:HD2	1:A:4174:PHE:CE1	2.29	0.49
1:B:245:VAL:C	1:B:247:TYR:N	2.67	0.49
1:B:838:HIS:CA	1:B:1200:GLY:O	2.59	0.49
1:B:1638:ALA:CB	1:B:1649:ASP:N	2.73	0.49
1:B:2342:ASN:CA	1:B:2343:GLY:C	2.85	0.49
1:B:4847:VAL:HG13	1:B:4848:VAL:N	2.26	0.49
1:B:4908:GLU:CB	1:B:4909:TYR:HB2	2.42	0.49
1:C:4728:HIS:C	1:C:4730:ASP:CB	2.84	0.49
1:D:1749:PRO:C	1:D:1751:GLY:H	2.13	0.49
1:D:2920:ARG:HA	1:D:2923:ALA:HB3	1.92	0.49
1:D:5021:PHE:CE1	1:D:5022:PHE:CE1	3.01	0.49
1:A:1621:GLY:HA2	1:A:1628:VAL:CB	2.43	0.49
1:A:3378:GLN:O	1:A:3379:LEU:C	2.55	0.49
1:A:4685:GLY:N	1:A:4689:THR:CB	2.72	0.49
1:A:4725:LEU:O	1:A:4728:HIS:O	2.30	0.49
1:A:4773:VAL:O	1:A:4775:TYR:N	2.45	0.49
1:A:4928:LEU:CA	1:A:4931:ILE:CD1	2.84	0.49
1:A:5031:GLN:NE2	1:A:5032:TYR:CE1	2.81	0.49
1:B:17:ASP:CA	1:B:69:LEU:O	2.60	0.49
1:B:341:TYR:C	1:B:343:GLU:N	2.68	0.49
1:B:726:VAL:O	1:B:727:ALA:C	2.56	0.49
1:B:916:PRO:C	1:B:919:ASN:CB	2.86	0.49
1:B:1564:PHE:HD1	1:B:1564:PHE:N	2.10	0.49
1:B:1588:ALA:CB	1:B:1589:PRO:CA	2.84	0.49
1:C:534:ARG:O	1:C:537:CYS:CB	2.60	0.49
1:C:916:PRO:C	1:C:919:ASN:CB	2.86	0.49
1:C:1287:LEU:CB	1:C:1288:PHE:HA	2.42	0.49
1:C:1515:VAL:CB	1:C:1529:PHE:CA	2.89	0.49
1:C:2557:ALA:O	1:C:2561:LEU:N	2.45	0.49
1:C:3792:ALA:O	1:C:3796:SER:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4208:PRO:CG	1:C:4209:GLN:H	2.24	0.49
1:C:4725:LEU:O	1:C:4728:HIS:O	2.30	0.49
1:C:5031:GLN:NE2	1:C:5032:TYR:CE1	2.81	0.49
1:D:483:MET:O	1:D:484:LEU:C	2.54	0.49
1:D:500:ALA:CB	1:D:515:TRP:HH2	2.21	0.49
1:D:3795:SER:CB	1:D:3880:PHE:CD2	2.95	0.49
1:D:3893:GLU:O	1:D:3895:HIS:N	2.40	0.49
1:D:4007:SER:C	1:D:4009:GLN:CB	2.85	0.49
1:D:5031:GLN:NE2	1:D:5032:TYR:CE1	2.81	0.49
1:A:2168:VAL:CB	1:A:2169:GLN:C	2.85	0.49
1:B:229:GLU:HA	1:B:248:GLU:O	2.13	0.49
1:B:488:LEU:O	1:B:491:ILE:CB	2.61	0.49
1:B:1461:ASP:CA	1:B:1462:MET:CB	2.84	0.49
1:C:1621:GLY:HA2	1:C:1628:VAL:CB	2.43	0.49
1:C:2592:GLY:N	1:C:2595:LEU:H	1.96	0.49
1:C:2920:ARG:HA	1:C:2923:ALA:HB3	1.92	0.49
1:C:3378:GLN:O	1:C:3379:LEU:C	2.55	0.49
1:C:4125:PHE:HA	1:C:4128:PHE:HB2	1.92	0.49
1:C:4768:LEU:CD1	1:C:4769:MET:N	2.73	0.49
1:D:1133:HIS:N	1:D:1135:GLY:N	2.60	0.49
1:A:726:VAL:O	1:A:727:ALA:C	2.56	0.49
1:A:4918:ILE:CG2	1:A:4919:THR:N	2.75	0.49
1:B:211:GLU:C	1:B:213:TYR:CB	2.85	0.49
1:B:593:HIS:HA	1:B:1597:VAL:CB	2.41	0.49
1:B:1287:LEU:CB	1:B:1288:PHE:CA	2.90	0.49
1:B:1287:LEU:CB	1:B:1288:PHE:HA	2.42	0.49
1:B:1679:ASN:O	1:B:1681:VAL:N	2.45	0.49
1:B:4141:PHE:CA	1:B:4174:PHE:CD2	2.68	0.49
1:C:2765:LYS:O	1:C:2769:ASP:N	2.41	0.49
1:C:4768:LEU:CD1	1:C:4768:LEU:C	2.85	0.49
1:C:4803:HIS:HD2	1:C:4804:TYR:N	2.09	0.49
1:D:17:ASP:CA	1:D:69:LEU:O	2.60	0.49
1:D:1287:LEU:CB	1:D:1288:PHE:HA	2.42	0.49
1:A:252:VAL:C	1:A:255:HIS:CB	2.85	0.49
1:A:488:LEU:O	1:A:491:ILE:CB	2.61	0.49
1:A:2454:ARG:C	1:A:2454:ARG:CD	2.85	0.49
1:B:1226:PHE:N	1:B:1226:PHE:CD1	2.81	0.49
1:B:1708:ARG:HG2	1:B:1712:TYR:CD2	2.46	0.49
1:B:3763:LEU:C	1:B:3763:LEU:CD2	2.85	0.49
1:B:4184:MET:CA	1:B:5021:PHE:O	2.46	0.49
1:B:4208:PRO:CG	1:B:4209:GLN:H	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4930:ALA:HB3	1:C:4936:ILE:CD1	2.39	0.49
1:C:229:GLU:HA	1:C:248:GLU:O	2.13	0.49
1:C:1276:THR:CB	1:C:1563:GLN:CA	2.87	0.49
1:C:4847:VAL:HG13	1:C:4848:VAL:N	2.26	0.49
1:C:4930:ALA:CB	1:D:4936:ILE:HD13	2.42	0.49
1:C:5021:PHE:CG	1:C:5022:PHE:N	2.81	0.49
1:D:4644:TRP:HE3	1:D:4645:CYS:CA	2.26	0.49
1:D:4794:TRP:CE3	1:D:4795:TYR:CA	2.95	0.49
1:A:639:ASN:CA	1:A:1634:LEU:O	2.42	0.49
1:A:2192:TYR:O	1:A:2193:GLN:CB	2.59	0.49
1:A:4180:ARG:CA	1:A:4181:ILE:HB	2.43	0.49
1:A:4968:PHE:HD2	1:A:4978:HIS:HB2	1.71	0.49
1:B:2278:ALA:C	1:B:2280:VAL:H	2.20	0.49
1:B:3795:SER:CB	1:B:3880:PHE:CD2	2.95	0.49
1:B:4768:LEU:CD1	1:B:4768:LEU:C	2.85	0.49
1:B:4851:TYR:HA	1:B:4854:VAL:CG2	2.43	0.49
1:C:404:ILE:CB	1:C:478:PHE:HE1	2.22	0.49
1:C:2463:LEU:N	1:C:2464:ASP:CA	2.74	0.49
1:C:4908:GLU:CB	1:C:4909:TYR:HB2	2.42	0.49
1:C:5021:PHE:C	1:C:5021:PHE:CD1	2.91	0.49
1:D:173:SER:HA	1:D:174:VAL:CB	2.43	0.49
1:D:4146:LEU:HD23	1:D:4147:LEU:N	2.27	0.49
1:D:5021:PHE:CG	1:D:5022:PHE:N	2.81	0.49
1:A:4193:ILE:CG2	1:A:4194:TYR:N	2.76	0.49
1:A:4197:ILE:CD1	1:A:4990:PHE:CG	2.95	0.49
1:A:4768:LEU:CD1	1:A:4768:LEU:C	2.85	0.49
1:A:4768:LEU:CD1	1:A:4770:SER:N	2.73	0.49
1:A:4928:LEU:CA	1:A:4931:ILE:HD13	2.42	0.49
1:A:5018:CYS:C	1:A:5019:TRP:HD1	2.19	0.49
1:B:173:SER:HA	1:B:174:VAL:CB	2.43	0.49
1:B:501:ALA:HB1	1:B:505:GLU:CA	2.43	0.49
1:C:1163:THR:CA	1:C:1168:VAL:HA	2.37	0.49
1:C:4555:LEU:C	1:C:4558:ASN:CB	2.85	0.49
1:C:4851:TYR:O	1:C:4854:VAL:CG2	2.56	0.49
1:D:488:LEU:O	1:D:491:ILE:CB	2.61	0.49
1:D:3904:ARG:O	1:D:3905:THR:CB	2.60	0.49
1:D:4918:ILE:CG2	1:D:4919:THR:N	2.75	0.49
1:D:4932:ILE:CG2	1:D:4933:GLN:N	2.75	0.49
1:D:5021:PHE:CD1	1:D:5021:PHE:C	2.91	0.49
1:A:989:ALA:O	1:A:993:HIS:N	2.40	0.49
1:A:4715:TYR:CE1	1:A:4717:ASP:CB	2.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4851:TYR:HA	1:A:4854:VAL:CG2	2.43	0.49
1:B:5021:PHE:CE1	1:B:5022:PHE:CE1	3.01	0.49
1:C:608:VAL:CA	1:C:613:ALA:CB	2.85	0.49
1:C:4665:LYS:O	1:C:4669:VAL:HG23	2.12	0.49
1:C:4794:TRP:CE3	1:C:4795:TYR:CA	2.95	0.49
1:D:1564:PHE:HD1	1:D:1564:PHE:N	2.10	0.49
1:D:1638:ALA:CB	1:D:1649:ASP:N	2.73	0.49
1:D:4193:ILE:CG2	1:D:4194:TYR:N	2.76	0.49
1:D:4832:HIS:ND1	1:D:4833:ASN:N	2.60	0.49
1:D:4848:VAL:HG13	1:D:4849:TYR:N	2.28	0.49
1:A:501:ALA:HB1	1:A:505:GLU:CA	2.43	0.48
1:C:71:GLN:C	1:C:106:ALA:O	2.51	0.48
1:C:500:ALA:HB1	1:C:515:TRP:CZ3	2.43	0.48
1:C:1287:LEU:CB	1:C:1288:PHE:CA	2.90	0.48
1:C:3893:GLU:C	1:C:3895:HIS:N	2.71	0.48
1:C:3904:ARG:O	1:C:3905:THR:CB	2.60	0.48
1:C:4146:LEU:HD23	1:C:4147:LEU:N	2.27	0.48
1:C:4729:GLY:N	1:C:4730:ASP:C	2.71	0.48
1:C:4928:LEU:CA	1:C:4931:ILE:HD13	2.42	0.48
1:D:2454:ARG:C	1:D:2454:ARG:CD	2.85	0.48
1:D:4768:LEU:CD1	1:D:4768:LEU:C	2.85	0.48
1:D:4928:LEU:CA	1:D:4931:ILE:HD13	2.42	0.48
1:A:219:VAL:CB	1:A:261:ARG:CA	2.89	0.48
1:A:4944:ARG:CZ	1:D:4942:GLU:CB	2.91	0.48
1:B:2557:ALA:O	1:B:2561:LEU:N	2.45	0.48
1:B:2770:LYS:O	1:B:2775:TRP:CB	2.60	0.48
1:B:4954:MET:C	1:B:4954:MET:CE	2.85	0.48
1:B:5021:PHE:CD1	1:B:5021:PHE:C	2.91	0.48
1:C:501:ALA:HB1	1:C:505:GLU:CA	2.43	0.48
1:C:546:TRP:C	1:C:546:TRP:CD2	2.91	0.48
1:C:1803:PRO:O	1:C:1806:ALA:CB	2.60	0.48
1:C:4651:THR:OG1	1:C:4799:SER:OG	2.28	0.48
1:C:5021:PHE:CZ	1:C:5022:PHE:CE1	3.02	0.48
1:D:123:THR:O	1:D:133:PHE:HB3	2.14	0.48
1:D:422:SER:N	1:D:423:GLY:CA	2.71	0.48
1:D:1226:PHE:N	1:D:1226:PHE:CD1	2.81	0.48
1:D:4725:LEU:O	1:D:4728:HIS:O	2.30	0.48
1:A:173:SER:HA	1:A:174:VAL:CB	2.43	0.48
1:A:5021:PHE:CD1	1:A:5021:PHE:C	2.91	0.48
1:B:483:MET:O	1:B:484:LEU:C	2.54	0.48
1:B:3934:TYR:CE1	1:B:3935:TRP:HZ3	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4729:GLY:N	1:B:4730:ASP:C	2.71	0.48
1:B:5021:PHE:CZ	1:B:5022:PHE:CE1	3.02	0.48
1:C:123:THR:O	1:C:133:PHE:HB3	2.14	0.48
1:C:439:GLU:N	1:C:442:ILE:H	2.11	0.48
1:C:538:ALA:O	1:C:539:LEU:C	2.51	0.48
1:C:4821:LYS:HA	1:C:4824:ARG:CB	2.44	0.48
1:C:4944:ARG:C	1:C:4944:ARG:CD	2.85	0.48
1:D:726:VAL:O	1:D:727:ALA:C	2.56	0.48
1:D:3378:GLN:O	1:D:3379:LEU:C	2.55	0.48
1:D:4715:TYR:O	1:D:4716:TRP:CG	2.66	0.48
1:D:4833:ASN:HD21	1:D:4939:ALA:CB	2.21	0.48
1:A:17:ASP:CA	1:A:69:LEU:O	2.60	0.48
1:A:439:GLU:N	1:A:442:ILE:H	2.11	0.48
1:A:3904:ARG:O	1:A:3905:THR:CB	2.60	0.48
1:A:4670:ILE:O	1:A:4670:ILE:HD12	2.13	0.48
1:B:546:TRP:C	1:B:546:TRP:CD2	2.91	0.48
1:B:1621:GLY:HA2	1:B:1628:VAL:CB	2.43	0.48
1:B:2453:ILE:N	1:B:2456:ILE:H	2.11	0.48
1:B:2765:LYS:O	1:B:2769:ASP:N	2.41	0.48
1:B:4670:ILE:HD12	1:B:4670:ILE:O	2.13	0.48
1:B:4818:MET:HA	1:B:4819:GLY:HA3	1.54	0.48
1:B:4861:LYS:O	1:B:4862:PHE:HB2	2.14	0.48
1:B:4944:ARG:C	1:B:4944:ARG:CD	2.85	0.48
1:B:5018:CYS:C	1:B:5019:TRP:HD1	2.19	0.48
1:C:726:VAL:O	1:C:727:ALA:C	2.56	0.48
1:C:1226:PHE:N	1:C:1226:PHE:CD1	2.81	0.48
1:C:4861:LYS:O	1:C:4862:PHE:HB2	2.14	0.48
1:C:5021:PHE:CE1	1:C:5022:PHE:CE1	3.01	0.48
1:D:3893:GLU:C	1:D:3895:HIS:N	2.71	0.48
1:D:4195:PHE:CZ	1:D:4991:PHE:CA	2.96	0.48
1:D:4928:LEU:HA	1:D:4931:ILE:HD13	1.92	0.48
1:D:5018:CYS:C	1:D:5019:TRP:HD1	2.19	0.48
1:A:635:THR:CB	1:A:1639:LEU:CB	2.92	0.48
1:A:1226:PHE:N	1:A:1226:PHE:CD1	2.81	0.48
1:A:4729:GLY:N	1:A:4730:ASP:C	2.71	0.48
1:A:4960:ILE:CA	1:A:4961:CYS:CB	2.92	0.48
1:B:4715:TYR:O	1:B:4716:TRP:CG	2.66	0.48
1:B:4821:LYS:HA	1:B:4824:ARG:CB	2.44	0.48
1:B:5021:PHE:CG	1:B:5022:PHE:N	2.81	0.48
1:C:4877:ASP:CB	1:C:4881:THR:OG1	2.62	0.48
1:C:4885:PHE:CZ	1:C:4889:VAL:CG1	2.89	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5032:TYR:HA	1:C:5033:GLU:HB3	1.95	0.48
1:D:500:ALA:HB1	1:D:515:TRP:CZ3	2.43	0.48
1:D:1272:LEU:N	1:D:1273:ALA:CB	2.73	0.48
1:D:2125:HIS:CB	1:D:3725:TYR:OH	2.59	0.48
1:D:2572:THR:O	1:D:2575:ARG:CB	2.62	0.48
1:D:4178:LEU:C	1:D:4178:LEU:CD1	2.84	0.48
1:D:4651:THR:HA	1:D:4799:SER:OG	2.14	0.48
1:D:4861:LYS:O	1:D:4862:PHE:HB2	2.14	0.48
1:D:5021:PHE:CZ	1:D:5022:PHE:CE1	3.02	0.48
1:B:635:THR:CB	1:B:1639:LEU:CB	2.92	0.48
1:B:4925:ILE:CD1	1:B:4925:ILE:H	2.18	0.48
1:B:5031:GLN:NE2	1:B:5032:TYR:CE1	2.81	0.48
1:C:635:THR:CB	1:C:1639:LEU:CB	2.92	0.48
1:C:836:GLY:O	1:C:837:PRO:C	2.53	0.48
1:C:1272:LEU:N	1:C:1273:ALA:CB	2.73	0.48
1:C:4180:ARG:CA	1:C:4181:ILE:HB	2.43	0.48
1:C:4651:THR:HA	1:C:4799:SER:OG	2.14	0.48
1:D:546:TRP:C	1:D:546:TRP:CD2	2.91	0.48
1:D:1287:LEU:CB	1:D:1288:PHE:CA	2.90	0.48
1:D:1621:GLY:HA2	1:D:1628:VAL:CB	2.43	0.48
1:D:4104:THR:O	1:D:4108:ILE:N	2.42	0.48
1:D:4954:MET:C	1:D:4954:MET:CE	2.85	0.48
1:D:4968:PHE:HD2	1:D:4978:HIS:HB2	1.71	0.48
1:A:4173:TYR:CD2	1:A:4174:PHE:CD1	3.01	0.48
1:A:4667:PRO:HA	1:A:4670:ILE:HG22	1.95	0.48
1:B:701:GLY:HA2	1:B:1645:ASN:CB	2.44	0.48
1:B:2546:MET:O	1:B:2549:ALA:HB3	2.14	0.48
1:B:4928:LEU:C	1:B:4931:ILE:HD13	2.38	0.48
1:C:4851:TYR:HA	1:C:4854:VAL:CG2	2.43	0.48
1:D:245:VAL:C	1:D:247:TYR:N	2.67	0.48
1:D:1718:ILE:O	1:D:1719:HIS:C	2.56	0.48
1:D:4877:ASP:CB	1:D:4881:THR:OG1	2.62	0.48
1:A:4715:TYR:O	1:A:4716:TRP:CG	2.66	0.48
1:A:4729:GLY:H	1:A:4730:ASP:C	2.22	0.48
1:A:4861:LYS:O	1:A:4862:PHE:HB2	2.14	0.48
1:A:5021:PHE:CG	1:A:5022:PHE:N	2.81	0.48
1:B:439:GLU:N	1:B:442:ILE:H	2.11	0.48
1:B:668:VAL:O	1:B:740:PRO:HA	2.14	0.48
1:C:4181:ILE:HG13	1:C:4194:TYR:HA	1.89	0.48
1:C:4918:ILE:CG2	1:C:4919:THR:N	2.75	0.48
1:C:4960:ILE:CA	1:C:4961:CYS:CB	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4984:ASN:O	1:C:4985:LEU:C	2.55	0.48
1:D:1164:LEU:O	1:D:1166:GLY:N	2.47	0.48
1:D:3937:TYR:C	1:D:3939:GLY:H	2.21	0.48
1:D:4818:MET:HA	1:D:4819:GLY:HA3	1.54	0.48
1:A:72:SER:HA	1:A:106:ALA:H	1.79	0.48
1:A:1638:ALA:CB	1:A:1649:ASP:N	2.73	0.48
1:A:2546:MET:O	1:A:2549:ALA:HB3	2.14	0.48
1:A:4933:GLN:O	1:A:4937:ILE:HB	2.14	0.48
1:A:5032:TYR:HA	1:A:5033:GLU:HB3	1.95	0.48
1:B:123:THR:O	1:B:133:PHE:HB3	2.14	0.48
1:B:1164:LEU:O	1:B:1166:GLY:N	2.47	0.48
1:B:4922:PHE:O	1:B:4926:VAL:CG1	2.62	0.48
1:C:173:SER:HA	1:C:174:VAL:CB	2.43	0.48
1:C:422:SER:N	1:C:423:GLY:CA	2.72	0.48
1:C:2572:THR:O	1:C:2575:ARG:CB	2.62	0.48
1:C:4943:LEU:C	1:C:4943:LEU:CD1	2.85	0.48
1:C:4948:GLU:OE1	1:C:4949:GLN:HA	2.13	0.48
1:D:1718:ILE:HA	1:D:1720:LEU:CB	2.44	0.48
1:D:3962:PHE:HE2	1:D:4023:MET:N	2.05	0.48
1:D:4670:ILE:O	1:D:4670:ILE:HD12	2.13	0.48
1:D:4729:GLY:N	1:D:4730:ASP:C	2.71	0.48
1:A:500:ALA:CB	1:A:515:TRP:HH2	2.21	0.48
1:A:3415:TYR:O	1:A:3419:ASN:CB	2.62	0.48
1:A:3922:TYR:CD1	1:A:3922:TYR:C	2.92	0.48
1:A:4922:PHE:O	1:A:4926:VAL:CG1	2.62	0.48
1:A:4936:ILE:HG23	1:A:4937:ILE:H	1.74	0.48
1:B:1094:ALA:HA	1:B:1200:GLY:HA3	1.96	0.48
1:B:1237:TRP:CA	1:B:1611:HIS:CB	2.87	0.48
1:B:4146:LEU:HD23	1:B:4147:LEU:N	2.27	0.48
1:B:4729:GLY:H	1:B:4730:ASP:C	2.22	0.48
1:B:4960:ILE:CA	1:B:4961:CYS:CB	2.92	0.48
1:C:72:SER:HA	1:C:106:ALA:H	1.79	0.48
1:C:1933:GLU:O	1:C:1934:SER:C	2.52	0.48
1:C:4667:PRO:HA	1:C:4670:ILE:HG22	1.95	0.48
1:C:4848:VAL:HG13	1:C:4849:TYR:N	2.28	0.48
1:C:4928:LEU:C	1:C:4931:ILE:HD13	2.38	0.48
1:C:4933:GLN:O	1:C:4937:ILE:HB	2.14	0.48
1:D:439:GLU:N	1:D:442:ILE:H	2.11	0.48
1:D:501:ALA:HB1	1:D:505:GLU:CA	2.43	0.48
1:D:608:VAL:CA	1:D:613:ALA:CB	2.85	0.48
1:D:701:GLY:HA2	1:D:1645:ASN:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4181:ILE:CG2	1:D:4182:GLU:N	2.68	0.48
1:D:4667:PRO:HA	1:D:4670:ILE:HG22	1.95	0.48
1:D:4925:ILE:CD1	1:D:4925:ILE:H	2.18	0.48
1:A:123:THR:O	1:A:133:PHE:HB3	2.14	0.47
1:A:451:TYR:C	1:A:453:GLU:H	2.22	0.47
1:A:546:TRP:C	1:A:546:TRP:CD2	2.91	0.47
1:A:668:VAL:O	1:A:740:PRO:HA	2.14	0.47
1:A:1164:LEU:O	1:A:1166:GLY:N	2.47	0.47
1:A:2342:ASN:CA	1:A:2343:GLY:C	2.85	0.47
1:A:4928:LEU:C	1:A:4931:ILE:HD13	2.38	0.47
1:A:4930:ALA:HB3	1:B:4936:ILE:CD1	2.24	0.47
1:A:4966:ASP:CA	1:A:4969:ASP:CB	2.92	0.47
1:B:72:SER:HA	1:B:106:ALA:H	1.79	0.47
1:B:1803:PRO:O	1:B:1806:ALA:CB	2.60	0.47
1:B:4104:THR:O	1:B:4108:ILE:N	2.42	0.47
1:C:789:VAL:C	1:C:1627:ALA:CB	2.87	0.47
1:C:1749:PRO:C	1:C:1751:GLY:H	2.13	0.47
1:C:3763:LEU:C	1:C:3763:LEU:CD2	2.85	0.47
1:C:4173:TYR:CD2	1:C:4174:PHE:CD1	3.01	0.47
1:C:4670:ILE:HD12	1:C:4670:ILE:O	2.13	0.47
1:C:4715:TYR:O	1:C:4716:TRP:CG	2.66	0.47
1:C:4720:VAL:HG13	1:C:4721:LYS:N	2.29	0.47
1:D:635:THR:CB	1:D:1639:LEU:CB	2.92	0.47
1:D:2546:MET:O	1:D:2549:ALA:HB3	2.14	0.47
1:D:3766:GLN:CB	1:D:3769:ARG:NH2	2.77	0.47
1:D:4720:VAL:HG13	1:D:4721:LYS:N	2.29	0.47
1:D:4851:TYR:HA	1:D:4854:VAL:CG2	2.43	0.47
1:A:2453:ILE:N	1:A:2456:ILE:H	2.12	0.47
1:A:4818:MET:HA	1:A:4819:GLY:HA3	1.54	0.47
1:A:4914:VAL:HG23	1:B:4888:TYR:CE2	2.45	0.47
1:B:451:TYR:C	1:B:453:GLU:H	2.22	0.47
1:B:2125:HIS:CB	1:B:3725:TYR:OH	2.59	0.47
1:B:3766:GLN:CB	1:B:3769:ARG:NH2	2.77	0.47
1:B:4193:ILE:CG2	1:B:4194:TYR:N	2.76	0.47
1:C:1124:PHE:HE2	1:C:1162:PHE:HD2	1.61	0.47
1:C:3766:GLN:CB	1:C:3769:ARG:NH2	2.77	0.47
1:D:1094:ALA:HA	1:D:1200:GLY:HA3	1.96	0.47
1:D:2168:VAL:HA	1:D:2169:GLN:CB	2.44	0.47
1:D:2453:ILE:N	1:D:2456:ILE:H	2.12	0.47
1:D:2557:ALA:O	1:D:2561:LEU:N	2.45	0.47
1:D:4928:LEU:C	1:D:4931:ILE:HD13	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:788:LYS:CB	1:A:1629:GLN:HA	2.39	0.47
1:A:4806:ASN:N	1:A:4806:ASN:ND2	2.60	0.47
1:A:4848:VAL:HG13	1:A:4849:TYR:N	2.28	0.47
1:A:4936:ILE:HD13	1:D:4930:ALA:C	2.39	0.47
1:B:1133:HIS:N	1:B:1135:GLY:N	2.60	0.47
1:B:1718:ILE:HA	1:B:1720:LEU:CB	2.44	0.47
1:B:2572:THR:O	1:B:2575:ARG:CB	2.62	0.47
1:B:4644:TRP:HE3	1:B:4645:CYS:CA	2.26	0.47
1:C:668:VAL:O	1:C:740:PRO:HA	2.14	0.47
1:C:701:GLY:HA2	1:C:1645:ASN:CB	2.44	0.47
1:C:2168:VAL:HA	1:C:2169:GLN:CB	2.44	0.47
1:C:2454:ARG:C	1:C:2454:ARG:CD	2.85	0.47
1:C:4922:PHE:O	1:C:4926:VAL:CG1	2.62	0.47
1:D:72:SER:HA	1:D:106:ALA:H	1.79	0.47
1:D:451:TYR:C	1:D:453:GLU:H	2.22	0.47
1:D:546:TRP:CZ3	1:D:547:VAL:HA	2.49	0.47
1:D:4966:ASP:CA	1:D:4969:ASP:CB	2.92	0.47
1:A:229:GLU:HA	1:A:249:GLY:HA2	1.97	0.47
1:A:4922:PHE:O	1:A:4926:VAL:HG11	2.14	0.47
1:A:5021:PHE:CZ	1:A:5022:PHE:CE1	3.02	0.47
1:B:229:GLU:HA	1:B:249:GLY:HA2	1.97	0.47
1:B:2168:VAL:HA	1:B:2169:GLN:CB	2.44	0.47
1:B:4720:VAL:HG13	1:B:4721:LYS:N	2.29	0.47
1:B:4848:VAL:HG13	1:B:4849:TYR:N	2.28	0.47
1:B:4861:LYS:C	1:B:4862:PHE:HD1	2.23	0.47
1:B:4922:PHE:O	1:B:4926:VAL:HG11	2.14	0.47
1:B:4930:ALA:C	1:C:4936:ILE:HD13	2.39	0.47
1:C:2453:ILE:N	1:C:2456:ILE:H	2.12	0.47
1:C:4966:ASP:CA	1:C:4969:ASP:CB	2.92	0.47
1:D:668:VAL:O	1:D:740:PRO:HA	2.14	0.47
1:D:789:VAL:N	1:D:1628:VAL:O	2.46	0.47
1:D:4638:TYR:O	1:D:4641:PRO:HD2	2.14	0.47
1:D:4922:PHE:O	1:D:4926:VAL:HG11	2.14	0.47
1:D:4922:PHE:O	1:D:4926:VAL:CG1	2.62	0.47
1:D:4960:ILE:CA	1:D:4961:CYS:CB	2.92	0.47
1:A:111:HIS:C	1:A:115:ARG:H	2.23	0.47
1:A:1094:ALA:HA	1:A:1200:GLY:HA3	1.96	0.47
1:A:1276:THR:CB	1:A:1562:ILE:C	2.88	0.47
1:A:3758:MET:C	1:A:3760:LYS:N	2.73	0.47
1:A:4651:THR:HA	1:A:4799:SER:OG	2.14	0.47
1:B:111:HIS:C	1:B:115:ARG:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1934:SER:O	1:B:1935:VAL:C	2.58	0.47
1:B:3891:LEU:C	1:B:3892:CYS:O	2.56	0.47
1:B:4966:ASP:CA	1:B:4969:ASP:CB	2.92	0.47
1:C:354:GLY:O	1:C:380:GLN:CB	2.62	0.47
1:C:989:ALA:O	1:C:993:HIS:N	2.40	0.47
1:C:1164:LEU:O	1:C:1166:GLY:N	2.47	0.47
1:C:3795:SER:CB	1:C:3880:PHE:CE2	2.98	0.47
1:C:4687:TYR:N	1:C:4692:PRO:CD	2.61	0.47
1:C:4974:GLY:O	1:C:4975:PHE:C	2.56	0.47
1:D:229:GLU:HA	1:D:249:GLY:HA2	1.97	0.47
1:D:2044:ILE:O	1:D:2047:GLU:CB	2.63	0.47
1:D:3415:TYR:O	1:D:3419:ASN:CB	2.62	0.47
1:D:4180:ARG:CA	1:D:4181:ILE:HB	2.43	0.47
1:D:4729:GLY:H	1:D:4730:ASP:C	2.22	0.47
1:D:4821:LYS:HA	1:D:4824:ARG:CB	2.44	0.47
1:A:354:GLY:O	1:A:380:GLN:CB	2.62	0.47
1:A:1288:PHE:C	1:A:1553:PHE:CA	2.69	0.47
1:A:1718:ILE:O	1:A:1719:HIS:C	2.56	0.47
1:A:3935:TRP:HE1	1:D:77:ALA:HA	1.57	0.47
1:A:4885:PHE:CZ	1:A:4889:VAL:CG1	2.89	0.47
1:A:4947:GLN:OE1	1:A:4948:GLU:N	2.47	0.47
1:B:490:CYS:O	1:B:491:ILE:C	2.58	0.47
1:B:546:TRP:CZ3	1:B:547:VAL:HA	2.49	0.47
1:B:4667:PRO:HA	1:B:4670:ILE:HG22	1.95	0.47
1:B:4877:ASP:CB	1:B:4881:THR:OG1	2.62	0.47
1:B:4972:PRO:C	1:B:4973:HIS:ND1	2.73	0.47
1:B:4974:GLY:O	1:B:4975:PHE:C	2.56	0.47
1:C:546:TRP:CZ3	1:C:547:VAL:HA	2.49	0.47
1:C:3758:MET:C	1:C:3760:LYS:N	2.73	0.47
1:C:4193:ILE:CG2	1:C:4194:TYR:N	2.76	0.47
1:C:4729:GLY:H	1:C:4730:ASP:C	2.22	0.47
1:D:354:GLY:O	1:D:380:GLN:CB	2.62	0.47
1:D:488:LEU:CB	1:D:491:ILE:CB	2.92	0.47
1:D:4180:ARG:H	1:D:4181:ILE:HG12	1.79	0.47
1:D:4554:TYR:O	1:D:4555:LEU:C	2.57	0.47
1:D:4559:PHE:HD1	1:D:4560:TYR:N	2.12	0.47
1:D:4861:LYS:C	1:D:4862:PHE:HD1	2.23	0.47
1:D:5032:TYR:HA	1:D:5033:GLU:HB3	1.95	0.47
1:A:103:TYR:HA	1:A:104:GLY:HA2	1.62	0.47
1:A:488:LEU:CB	1:A:491:ILE:CB	2.92	0.47
1:A:2044:ILE:O	1:A:2047:GLU:CB	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2168:VAL:HA	1:A:2169:GLN:CB	2.44	0.47
1:A:2538:THR:C	1:A:2540:THR:N	2.73	0.47
1:A:2572:THR:O	1:A:2575:ARG:CB	2.62	0.47
1:A:4182:GLU:CD	1:A:4988:TYR:CD1	2.93	0.47
1:A:4182:GLU:OE1	1:A:4988:TYR:CB	2.62	0.47
1:A:4821:LYS:HA	1:A:4824:ARG:CB	2.44	0.47
1:A:4861:LYS:C	1:A:4862:PHE:HD1	2.23	0.47
1:A:4877:ASP:CB	1:A:4881:THR:OG1	2.62	0.47
1:A:5021:PHE:CE1	1:A:5022:PHE:CE1	3.01	0.47
1:B:180:LEU:HA	1:B:181:HIS:HA	1.60	0.47
1:B:500:ALA:HB1	1:B:515:TRP:CZ3	2.43	0.47
1:B:535:ALA:O	1:B:536:ASN:C	2.58	0.47
1:B:1643:GLU:N	1:B:1644:GLU:CA	2.77	0.47
1:B:2538:THR:C	1:B:2540:THR:N	2.73	0.47
1:B:3415:TYR:O	1:B:3419:ASN:CB	2.62	0.47
1:B:3922:TYR:CD1	1:B:3922:TYR:C	2.92	0.47
1:B:4554:TYR:O	1:B:4555:LEU:C	2.57	0.47
1:B:4651:THR:HA	1:B:4799:SER:OG	2.14	0.47
1:C:111:HIS:C	1:C:115:ARG:H	2.23	0.47
1:C:1133:HIS:N	1:C:1135:GLY:N	2.60	0.47
1:C:1638:ALA:CB	1:C:1649:ASP:N	2.73	0.47
1:C:2591:ARG:HA	1:C:2592:GLY:HA3	1.58	0.47
1:C:3668:SER:O	1:C:3669:PHE:C	2.57	0.47
1:C:3922:TYR:CD1	1:C:3922:TYR:C	2.92	0.47
1:C:4034:ASN:C	1:C:4153:HIS:HE1	2.23	0.47
1:C:4559:PHE:HD1	1:C:4560:TYR:N	2.12	0.47
1:C:4922:PHE:O	1:C:4926:VAL:HG11	2.14	0.47
1:C:4971:THR:HG21	1:C:4974:GLY:HA3	1.87	0.47
1:D:218:HIS:N	1:D:219:VAL:HA	2.30	0.47
1:D:229:GLU:HA	1:D:248:GLU:O	2.13	0.47
1:D:340:LYS:O	1:D:343:GLU:O	2.33	0.47
1:D:1643:GLU:N	1:D:1644:GLU:CA	2.77	0.47
1:D:4034:ASN:C	1:D:4153:HIS:HE1	2.23	0.47
1:A:701:GLY:HA2	1:A:1645:ASN:CB	2.44	0.47
1:A:788:LYS:CA	1:A:1629:GLN:CA	2.82	0.47
1:A:1643:GLU:N	1:A:1644:GLU:CA	2.77	0.47
1:A:3766:GLN:CB	1:A:3769:ARG:NH2	2.77	0.47
1:A:3833:GLN:CA	1:A:3833:GLN:NE2	2.73	0.47
1:A:4554:TYR:O	1:A:4555:LEU:C	2.57	0.47
1:A:4968:PHE:HD2	1:A:4978:HIS:HB3	1.78	0.47
1:B:422:SER:N	1:B:423:GLY:CA	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1124:PHE:HE2	1:B:1162:PHE:HD2	1.61	0.47
1:B:1133:HIS:N	1:B:1134:LEU:C	2.73	0.47
1:B:3933:PHE:CD1	1:B:3934:TYR:N	2.83	0.47
1:B:4173:TYR:CD2	1:B:4174:PHE:CD1	3.01	0.47
1:B:4182:GLU:OE1	1:B:4988:TYR:HB2	2.14	0.47
1:C:1718:ILE:HA	1:C:1720:LEU:CB	2.44	0.47
1:C:2044:ILE:O	1:C:2047:GLU:CB	2.63	0.47
1:C:4180:ARG:H	1:C:4181:ILE:HG12	1.79	0.47
1:D:111:HIS:C	1:D:115:ARG:H	2.23	0.47
1:D:535:ALA:O	1:D:536:ASN:C	2.58	0.47
1:D:2765:LYS:O	1:D:2769:ASP:N	2.41	0.47
1:D:3758:MET:C	1:D:3760:LYS:N	2.73	0.47
1:D:3795:SER:CB	1:D:3880:PHE:CE2	2.98	0.47
1:D:4685:GLY:N	1:D:4689:THR:CB	2.72	0.47
1:D:4948:GLU:OE1	1:D:4949:GLN:HA	2.15	0.47
1:A:340:LYS:O	1:A:343:GLU:O	2.33	0.47
1:A:1123:VAL:O	1:A:1131:ARG:C	2.58	0.47
1:A:1133:HIS:N	1:A:1135:GLY:N	2.60	0.47
1:A:4141:PHE:CZ	1:A:4196:GLU:HA	2.49	0.47
1:A:4183:ILE:O	1:A:5023:PRO:HD3	2.15	0.47
1:A:4559:PHE:HD1	1:A:4560:TYR:N	2.12	0.47
1:A:4948:GLU:OE1	1:A:4949:GLN:HA	2.14	0.47
1:B:3795:SER:CB	1:B:3880:PHE:CE2	2.98	0.47
1:B:4181:ILE:HG13	1:B:4194:TYR:HA	1.89	0.47
1:B:4183:ILE:O	1:B:5023:PRO:HD3	2.15	0.47
1:B:4562:LEU:CB	1:B:4657:CYS:HB3	2.45	0.47
1:B:4642:ALA:CA	1:B:4645:CYS:SG	3.01	0.47
1:B:4833:ASN:HD21	1:B:4939:ALA:CB	2.21	0.47
1:B:5032:TYR:HA	1:B:5033:GLU:HB3	1.95	0.47
1:C:179:TYR:O	1:C:181:HIS:HA	2.15	0.47
1:C:451:TYR:C	1:C:453:GLU:H	2.22	0.47
1:C:1688:HIS:H	1:C:1690:ASP:H	1.63	0.47
1:C:3415:TYR:O	1:C:3419:ASN:CB	2.62	0.47
1:C:4686:LEU:CB	1:C:4692:PRO:CG	2.81	0.47
1:C:4861:LYS:C	1:C:4862:PHE:HD1	2.23	0.47
1:C:4972:PRO:C	1:C:4973:HIS:ND1	2.72	0.47
1:D:3668:SER:O	1:D:3669:PHE:C	2.57	0.47
1:D:3922:TYR:CD1	1:D:3922:TYR:C	2.92	0.47
1:D:4108:ILE:C	1:D:4108:ILE:CD1	2.85	0.47
1:D:4972:PRO:C	1:D:4973:HIS:ND1	2.73	0.47
1:A:1133:HIS:N	1:A:1134:LEU:C	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1718:ILE:HA	1:A:1720:LEU:CB	2.44	0.47
1:A:2462:PRO:C	1:A:2464:ASP:CB	2.88	0.47
1:A:3945:GLU:C	1:A:3947:GLY:N	2.73	0.47
1:A:4180:ARG:H	1:A:4181:ILE:HG12	1.79	0.47
1:A:4638:TYR:O	1:A:4641:PRO:HD2	2.14	0.47
1:A:4720:VAL:HG13	1:A:4721:LYS:N	2.29	0.47
1:A:4974:GLY:O	1:A:4975:PHE:C	2.56	0.47
1:B:488:LEU:CB	1:B:491:ILE:CB	2.92	0.47
1:B:1226:PHE:N	1:B:1226:PHE:HD1	2.13	0.47
1:B:1272:LEU:N	1:B:1273:ALA:CB	2.73	0.47
1:B:1718:ILE:O	1:B:1719:HIS:C	2.56	0.47
1:B:2044:ILE:O	1:B:2047:GLU:CB	2.63	0.47
1:B:2591:ARG:HA	1:B:2592:GLY:HA3	1.58	0.47
1:B:2592:GLY:N	1:B:2595:LEU:H	1.96	0.47
1:B:3893:GLU:O	1:B:3895:HIS:N	2.40	0.47
1:C:229:GLU:HA	1:C:249:GLY:HA2	1.97	0.47
1:C:488:LEU:CB	1:C:491:ILE:CB	2.92	0.47
1:C:1123:VAL:O	1:C:1131:ARG:C	2.58	0.47
1:C:1133:HIS:N	1:C:1134:LEU:C	2.73	0.47
1:C:2538:THR:C	1:C:2540:THR:N	2.73	0.47
1:C:4173:TYR:CD2	1:C:4174:PHE:CE1	3.03	0.47
1:C:4562:LEU:CB	1:C:4657:CYS:HB3	2.45	0.47
1:D:1133:HIS:N	1:D:1134:LEU:C	2.73	0.47
1:D:1736:VAL:O	1:D:2144:ILE:CB	2.63	0.47
1:D:1821:ASP:C	1:D:1823:GLY:N	2.73	0.47
1:D:4885:PHE:CE2	1:D:4889:VAL:HG11	2.49	0.47
1:A:251:ALA:C	1:A:253:CYS:CB	2.88	0.46
1:A:490:CYS:O	1:A:491:ILE:C	2.58	0.46
1:A:546:TRP:CZ3	1:A:547:VAL:HA	2.49	0.46
1:A:1226:PHE:N	1:A:1226:PHE:HD1	2.14	0.46
1:A:3668:SER:O	1:A:3669:PHE:C	2.57	0.46
1:A:3795:SER:CB	1:A:3880:PHE:CE2	2.98	0.46
1:A:4231:MET:O	1:A:4235:VAL:HG23	2.16	0.46
1:A:4891:VAL:CG1	1:D:4918:ILE:CA	2.47	0.46
1:A:4972:PRO:C	1:A:4973:HIS:ND1	2.73	0.46
1:B:354:GLY:O	1:B:380:GLN:CB	2.62	0.46
1:B:4173:TYR:CD2	1:B:4174:PHE:CE1	3.03	0.46
1:B:4971:THR:HG21	1:B:4974:GLY:HA3	1.87	0.46
1:C:1094:ALA:HA	1:C:1200:GLY:HA3	1.96	0.46
1:C:1643:GLU:N	1:C:1644:GLU:CA	2.77	0.46
1:C:1828:ASP:CB	1:C:1829:PRO:CA	2.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2546:MET:O	1:C:2549:ALA:HB3	2.14	0.46
1:C:4141:PHE:CZ	1:C:4196:GLU:HA	2.49	0.46
1:C:4972:PRO:C	1:C:4973:HIS:CG	2.93	0.46
1:D:179:TYR:O	1:D:181:HIS:HA	2.15	0.46
1:D:1466:LEU:HA	1:D:1467:SER:HA	1.65	0.46
1:D:3891:LEU:C	1:D:3892:CYS:O	2.56	0.46
1:D:4141:PHE:CZ	1:D:4196:GLU:HA	2.49	0.46
1:D:4562:LEU:CB	1:D:4657:CYS:HB3	2.45	0.46
1:A:5031:GLN:NE2	1:A:5032:TYR:CD1	2.73	0.46
1:B:1276:THR:CB	1:B:1562:ILE:C	2.88	0.46
1:B:4034:ASN:C	1:B:4153:HIS:HE1	2.23	0.46
1:B:4231:MET:O	1:B:4235:VAL:HG23	2.16	0.46
1:B:4638:TYR:O	1:B:4641:PRO:HD2	2.14	0.46
1:B:4925:ILE:CD1	1:B:4925:ILE:N	2.73	0.46
1:B:4968:PHE:HD2	1:B:4978:HIS:HB3	1.78	0.46
1:C:3933:PHE:CD1	1:C:3934:TYR:N	2.83	0.46
1:C:4146:LEU:C	1:C:4146:LEU:CD2	2.85	0.46
1:C:4834:GLY:HA2	1:C:4837:LEU:CB	2.36	0.46
1:D:251:ALA:C	1:D:253:CYS:CB	2.88	0.46
1:D:1638:ALA:HB1	1:D:1649:ASP:N	2.24	0.46
1:D:2105:TRP:CD2	1:D:2106:ALA:N	2.83	0.46
1:D:3933:PHE:CD1	1:D:3934:TYR:N	2.83	0.46
1:D:4235:VAL:CA	1:D:4238:CYS:SG	3.00	0.46
1:D:4833:ASN:ND2	1:D:4939:ALA:HB2	2.24	0.46
1:A:179:TYR:O	1:A:181:HIS:HA	2.15	0.46
1:A:1736:VAL:O	1:A:2144:ILE:CB	2.63	0.46
1:A:2105:TRP:CD2	1:A:2106:ALA:N	2.83	0.46
1:A:3893:GLU:C	1:A:3895:HIS:N	2.71	0.46
1:A:4914:VAL:CG2	1:B:4888:TYR:CD2	2.65	0.46
1:B:1515:VAL:CB	1:B:1529:PHE:CA	2.89	0.46
1:B:2105:TRP:CD2	1:B:2106:ALA:N	2.83	0.46
1:B:3904:ARG:O	1:B:3905:THR:CB	2.60	0.46
1:C:839:LEU:O	1:C:1199:VAL:CA	2.61	0.46
1:C:2462:PRO:C	1:C:2464:ASP:CB	2.88	0.46
1:C:4124:ASN:O	1:C:4125:PHE:CG	2.69	0.46
1:C:4182:GLU:OE1	1:C:4988:TYR:HB2	2.15	0.46
1:C:4183:ILE:O	1:C:5023:PRO:HD3	2.15	0.46
1:C:4818:MET:HA	1:C:4819:GLY:HA3	1.54	0.46
1:D:490:CYS:O	1:D:491:ILE:C	2.58	0.46
1:D:2462:PRO:C	1:D:2464:ASP:CB	2.88	0.46
1:D:2884:ASN:O	1:D:2888:ARG:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3945:GLU:C	1:D:3947:GLY:N	2.73	0.46
1:D:4124:ASN:O	1:D:4125:PHE:CG	2.69	0.46
1:D:4984:ASN:O	1:D:4985:LEU:C	2.56	0.46
1:D:5001:THR:HG23	1:D:5002:GLU:N	2.30	0.46
1:A:1708:ARG:CG	1:A:1712:TYR:CE2	2.86	0.46
1:A:1934:SER:O	1:A:1935:VAL:C	2.58	0.46
1:A:3933:PHE:CD1	1:A:3934:TYR:N	2.83	0.46
1:A:4562:LEU:CB	1:A:4657:CYS:HB3	2.45	0.46
1:A:4885:PHE:CE2	1:A:4889:VAL:HG11	2.49	0.46
1:B:340:LYS:O	1:B:343:GLU:O	2.33	0.46
1:B:989:ALA:O	1:B:993:HIS:N	2.40	0.46
1:B:1441:ALA:HA	1:B:1561:VAL:O	2.16	0.46
1:C:251:ALA:C	1:C:253:CYS:CB	2.88	0.46
1:C:340:LYS:O	1:C:343:GLU:O	2.33	0.46
1:C:490:CYS:O	1:C:491:ILE:C	2.58	0.46
1:C:4638:TYR:O	1:C:4641:PRO:HD2	2.14	0.46
1:C:4995:LEU:HD13	1:C:5011:TRP:CZ3	2.41	0.46
1:C:5001:THR:HG23	1:C:5002:GLU:N	2.31	0.46
1:D:103:TYR:HA	1:D:104:GLY:HA2	1.62	0.46
1:D:1688:HIS:H	1:D:1690:ASP:H	1.63	0.46
1:D:1688:HIS:HA	1:D:1689:VAL:C	2.40	0.46
1:D:1803:PRO:O	1:D:1806:ALA:CB	2.60	0.46
1:D:4183:ILE:O	1:D:5023:PRO:HD3	2.15	0.46
1:A:2884:ASN:O	1:A:2888:ARG:CB	2.64	0.46
1:B:103:TYR:HA	1:B:104:GLY:HA2	1.62	0.46
1:B:2462:PRO:C	1:B:2464:ASP:CB	2.88	0.46
1:B:4195:PHE:CZ	1:B:4991:PHE:CA	2.96	0.46
1:B:4243:PHE:CD2	1:B:4671:PHE:CE1	2.89	0.46
1:B:4936:ILE:CG2	1:B:4937:ILE:N	2.78	0.46
1:C:501:ALA:HB1	1:C:505:GLU:HA	1.97	0.46
1:C:1461:ASP:CA	1:C:1462:MET:CB	2.84	0.46
1:C:1688:HIS:HA	1:C:1689:VAL:C	2.40	0.46
1:C:3658:LYS:CA	1:C:3661:TRP:CD1	2.91	0.46
1:C:3937:TYR:C	1:C:3939:GLY:H	2.21	0.46
1:C:4935:LEU:HD23	1:D:4940:PHE:CE2	2.46	0.46
1:D:219:VAL:CB	1:D:261:ARG:CA	2.89	0.46
1:D:2538:THR:C	1:D:2540:THR:N	2.73	0.46
1:D:4183:ILE:N	1:D:4183:ILE:CD1	2.72	0.46
1:A:180:LEU:HA	1:A:181:HIS:HA	1.60	0.46
1:A:4171:LEU:C	1:A:4171:LEU:CD2	2.85	0.46
1:A:4954:MET:C	1:A:4954:MET:CE	2.85	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:251:ALA:C	1:B:253:CYS:CB	2.88	0.46
1:B:1688:HIS:HA	1:B:1689:VAL:C	2.40	0.46
1:B:4003:LEU:HA	1:B:4004:ALA:HA	1.68	0.46
1:B:4559:PHE:HD1	1:B:4560:TYR:N	2.12	0.46
1:B:4651:THR:OG1	1:B:4799:SER:OG	2.28	0.46
1:C:218:HIS:N	1:C:219:VAL:HA	2.30	0.46
1:C:4195:PHE:CZ	1:C:4991:PHE:CA	2.96	0.46
1:D:1934:SER:O	1:D:1935:VAL:C	2.58	0.46
1:A:3986:TRP:H	1:A:3988:ALA:CB	2.29	0.46
1:A:4034:ASN:C	1:A:4153:HIS:HE1	2.23	0.46
1:A:4088:ILE:O	1:A:4092:ASP:C	2.59	0.46
1:A:4644:TRP:C	1:A:4644:TRP:CD2	2.94	0.46
1:B:219:VAL:CB	1:B:261:ARG:CA	2.89	0.46
1:B:3668:SER:O	1:B:3669:PHE:C	2.57	0.46
1:B:4124:ASN:O	1:B:4125:PHE:CG	2.69	0.46
1:B:4856:PHE:HE1	1:B:4857:ASN:HD21	1.63	0.46
1:B:4943:LEU:C	1:B:4943:LEU:CD1	2.85	0.46
1:B:5031:GLN:NE2	1:B:5032:TYR:CD1	2.73	0.46
1:C:180:LEU:HA	1:C:181:HIS:HA	1.60	0.46
1:C:245:VAL:C	1:C:247:TYR:N	2.67	0.46
1:C:1736:VAL:O	1:C:2144:ILE:CB	2.63	0.46
1:C:3945:GLU:C	1:C:3947:GLY:N	2.73	0.46
1:C:4856:PHE:HE1	1:C:4857:ASN:HD21	1.63	0.46
1:D:501:ALA:HB1	1:D:505:GLU:HA	1.97	0.46
1:D:1285:GLU:CB	1:D:1555:LEU:CB	2.94	0.46
1:D:4181:ILE:HG13	1:D:4194:TYR:HA	1.89	0.46
1:D:4182:GLU:OE1	1:D:4988:TYR:HB2	2.14	0.46
1:D:4783:ILE:HD13	1:D:4784:PHE:N	2.31	0.46
1:D:4971:THR:HG21	1:D:4974:GLY:HA3	1.87	0.46
1:A:218:HIS:N	1:A:219:VAL:HA	2.30	0.46
1:A:1441:ALA:HA	1:A:1561:VAL:O	2.16	0.46
1:A:4972:PRO:C	1:A:4973:HIS:CG	2.93	0.46
1:B:1736:VAL:O	1:B:2144:ILE:CB	2.63	0.46
1:B:2775:TRP:HA	1:B:2786:LYS:O	2.16	0.46
1:B:3047:ALA:O	1:B:3050:VAL:CB	2.64	0.46
1:B:4173:TYR:HD2	1:B:4174:PHE:HD1	1.64	0.46
1:C:220:LEU:CB	1:C:392:ARG:N	2.76	0.46
1:C:3891:LEU:C	1:C:3892:CYS:O	2.56	0.46
1:C:3942:VAL:CB	1:C:3943:ILE:CA	2.89	0.46
1:C:4554:TYR:O	1:C:4555:LEU:C	2.57	0.46
1:D:1441:ALA:HA	1:D:1561:VAL:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3833:GLN:C	1:D:3833:GLN:NE2	2.73	0.46
1:A:501:ALA:HB1	1:A:505:GLU:HA	1.97	0.46
1:A:1163:THR:CA	1:A:1168:VAL:HA	2.37	0.46
1:A:1688:HIS:HA	1:A:1689:VAL:C	2.40	0.46
1:A:1716:ILE:O	1:A:1721:GLU:N	2.35	0.46
1:A:3104:GLU:O	1:A:3108:GLU:N	2.36	0.46
1:A:3792:ALA:O	1:A:3796:SER:N	2.41	0.46
1:A:3835:LEU:C	1:A:3837:GLN:N	2.72	0.46
1:A:4124:ASN:O	1:A:4125:PHE:CG	2.69	0.46
1:C:1161:ILE:HA	1:C:1178:ALA:HB3	1.83	0.46
1:C:1466:LEU:HA	1:C:1467:SER:HA	1.65	0.46
1:D:1226:PHE:N	1:D:1226:PHE:HD1	2.14	0.46
1:D:4173:TYR:CD2	1:D:4174:PHE:CE1	3.03	0.46
1:A:2775:TRP:HA	1:A:2786:LYS:O	2.16	0.46
1:A:4173:TYR:CD2	1:A:4174:PHE:CE1	3.03	0.46
1:A:4738:ALA:CA	1:A:4742:GLY:HA2	2.36	0.46
1:B:501:ALA:HB1	1:B:505:GLU:HA	1.97	0.46
1:B:2790:MET:C	1:B:2792:ARG:H	2.25	0.46
1:B:2884:ASN:O	1:B:2888:ARG:CB	2.64	0.46
1:B:3823:LYS:O	1:B:3824:LYS:C	2.59	0.46
1:B:3986:TRP:H	1:B:3988:ALA:CB	2.29	0.46
1:B:4088:ILE:O	1:B:4092:ASP:C	2.59	0.46
1:B:4652:LEU:C	1:B:4652:LEU:CD1	2.85	0.46
1:B:4727:LYS:O	1:B:4730:ASP:CB	2.64	0.46
1:C:1285:GLU:CB	1:C:1555:LEU:CB	2.94	0.46
1:C:2105:TRP:CD2	1:C:2106:ALA:N	2.83	0.46
1:C:2145:SER:CB	1:C:3648:ARG:CB	2.94	0.46
1:C:2775:TRP:HA	1:C:2786:LYS:O	2.16	0.46
1:C:4154:VAL:HG12	1:C:4154:VAL:O	2.16	0.46
1:D:1123:VAL:O	1:D:1131:ARG:C	2.58	0.46
1:D:4935:LEU:CD2	1:D:4935:LEU:N	2.78	0.46
1:A:229:GLU:HA	1:A:248:GLU:O	2.13	0.45
1:A:254:THR:N	1:A:255:HIS:CB	2.79	0.45
1:A:1160:ILE:O	1:A:1162:PHE:HD1	1.99	0.45
1:A:3047:ALA:O	1:A:3050:VAL:CB	2.64	0.45
1:A:4944:ARG:HH22	1:D:4942:GLU:CA	2.28	0.45
1:B:3721:LEU:O	1:B:3725:TYR:CD1	2.60	0.45
1:B:3833:GLN:C	1:B:3833:GLN:NE2	2.73	0.45
1:B:4192:ARG:NH1	1:B:5028:PHE:CE2	2.84	0.45
1:B:4235:VAL:CA	1:B:4238:CYS:SG	3.00	0.45
1:B:4686:LEU:CB	1:B:4692:PRO:CG	2.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4843:LEU:HD23	1:C:4844:LEU:N	2.31	0.45
1:D:1679:ASN:O	1:D:1680:ARG:C	2.59	0.45
1:D:3934:TYR:CD1	1:D:3935:TRP:CE3	3.04	0.45
1:D:4184:MET:CA	1:D:5021:PHE:O	2.46	0.45
1:D:4974:GLY:O	1:D:4975:PHE:C	2.56	0.45
1:A:71:GLN:C	1:A:106:ALA:O	2.51	0.45
1:A:1124:PHE:HE2	1:A:1162:PHE:HD2	1.61	0.45
1:A:1515:VAL:CB	1:A:1529:PHE:CA	2.89	0.45
1:A:3785:ALA:O	1:A:3787:LYS:N	2.50	0.45
1:A:4147:LEU:C	1:A:4147:LEU:CD1	2.85	0.45
1:A:4154:VAL:HG12	1:A:4154:VAL:O	2.16	0.45
1:A:4922:PHE:O	1:A:4922:PHE:CG	2.70	0.45
1:B:254:THR:N	1:B:255:HIS:CB	2.79	0.45
1:B:707:VAL:HA	1:B:725:HIS:CA	2.47	0.45
1:B:789:VAL:C	1:B:1627:ALA:CB	2.87	0.45
1:B:927:GLU:O	1:B:930:LYS:N	2.50	0.45
1:B:3893:GLU:C	1:B:3895:HIS:N	2.71	0.45
1:B:4651:THR:HG23	1:B:4652:LEU:N	2.31	0.45
1:B:4972:PRO:C	1:B:4973:HIS:CG	2.94	0.45
1:B:5001:THR:HG23	1:B:5002:GLU:N	2.30	0.45
1:C:791:PHE:O	1:C:1626:TRP:O	2.35	0.45
1:C:2274:ASP:CA	1:C:2277:ALA:HB3	2.47	0.45
1:C:2884:ASN:O	1:C:2888:ARG:CB	2.64	0.45
1:C:3061:ALA:C	1:C:3064:VAL:N	2.74	0.45
1:C:3103:ILE:O	1:C:3107:VAL:N	2.36	0.45
1:C:3792:ALA:O	1:C:3793:MET:C	2.59	0.45
1:C:4644:TRP:C	1:C:4644:TRP:CD2	2.94	0.45
1:C:4885:PHE:CE2	1:C:4889:VAL:HG11	2.49	0.45
1:D:254:THR:N	1:D:255:HIS:CB	2.79	0.45
1:D:535:ALA:C	1:D:537:CYS:N	2.72	0.45
1:D:791:PHE:O	1:D:1626:TRP:O	2.35	0.45
1:D:3792:ALA:O	1:D:3793:MET:C	2.59	0.45
1:D:3823:LYS:O	1:D:3824:LYS:C	2.59	0.45
1:D:4972:PRO:C	1:D:4973:HIS:CG	2.94	0.45
1:D:5031:GLN:NE2	1:D:5032:TYR:CD1	2.73	0.45
1:A:4783:ILE:HD13	1:A:4789:PHE:CE2	2.52	0.45
1:A:4856:PHE:HE1	1:A:4857:ASN:HD21	1.63	0.45
1:B:71:GLN:C	1:B:106:ALA:O	2.51	0.45
1:B:218:HIS:N	1:B:219:VAL:HA	2.30	0.45
1:B:277:GLY:HA2	1:B:316:PHE:O	2.16	0.45
1:B:4791:TYR:OH	1:B:4816:ILE:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:535:ALA:C	1:C:537:CYS:N	2.72	0.45
1:C:707:VAL:HA	1:C:725:HIS:CA	2.46	0.45
1:C:1237:TRP:CA	1:C:1611:HIS:CB	2.87	0.45
1:C:3934:TYR:CD1	1:C:3935:TRP:CE3	3.04	0.45
1:C:4727:LYS:O	1:C:4730:ASP:CB	2.64	0.45
1:C:4791:TYR:OH	1:C:4816:ILE:O	2.35	0.45
1:D:1273:ALA:CB	1:D:1565:GLU:C	2.78	0.45
1:D:2775:TRP:HA	1:D:2786:LYS:O	2.16	0.45
1:D:4644:TRP:C	1:D:4644:TRP:CD2	2.94	0.45
1:D:4856:PHE:HE1	1:D:4857:ASN:HD21	1.63	0.45
1:A:16:THR:O	1:A:17:ASP:CB	2.64	0.45
1:A:535:ALA:C	1:A:537:CYS:N	2.72	0.45
1:A:2145:SER:CB	1:A:3648:ARG:CB	2.94	0.45
1:A:2557:ALA:O	1:A:2561:LEU:N	2.45	0.45
1:A:3792:ALA:O	1:A:3793:MET:C	2.59	0.45
1:A:3962:PHE:HE2	1:A:4023:MET:N	2.05	0.45
1:A:4182:GLU:CD	1:A:4988:TYR:CB	2.82	0.45
1:A:4235:VAL:CA	1:A:4238:CYS:SG	3.00	0.45
1:A:4783:ILE:HD13	1:A:4784:PHE:N	2.31	0.45
1:A:4984:ASN:O	1:A:4985:LEU:C	2.55	0.45
1:B:179:TYR:O	1:B:181:HIS:HA	2.15	0.45
1:B:645:ARG:CB	1:B:780:VAL:HA	2.47	0.45
1:B:1716:ILE:O	1:B:1721:GLU:N	2.35	0.45
1:B:2274:ASP:CA	1:B:2277:ALA:HB3	2.47	0.45
1:B:2274:ASP:CB	1:B:2277:ALA:HB2	2.47	0.45
1:C:1226:PHE:N	1:C:1226:PHE:HD1	2.14	0.45
1:C:3947:GLY:O	1:C:3948:LYS:C	2.59	0.45
1:C:4192:ARG:NH1	1:C:5028:PHE:CE2	2.84	0.45
1:D:2145:SER:CB	1:D:3648:ARG:CB	2.94	0.45
1:D:3937:TYR:OH	1:D:3943:ILE:C	2.60	0.45
1:D:4088:ILE:O	1:D:4092:ASP:C	2.59	0.45
1:D:4147:LEU:C	1:D:4147:LEU:CD1	2.85	0.45
1:D:4727:LYS:O	1:D:4730:ASP:CB	2.64	0.45
1:A:277:GLY:HA2	1:A:316:PHE:O	2.16	0.45
1:A:1285:GLU:CB	1:A:1555:LEU:CB	2.94	0.45
1:A:1679:ASN:O	1:A:1680:ARG:C	2.59	0.45
1:A:4644:TRP:HE3	1:A:4645:CYS:CA	2.26	0.45
1:B:791:PHE:O	1:B:1626:TRP:O	2.35	0.45
1:B:3937:TYR:C	1:B:3939:GLY:H	2.21	0.45
1:B:4102:GLN:O	1:B:4103:PHE:CG	2.70	0.45
1:B:4922:PHE:O	1:B:4922:PHE:CG	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1276:THR:CB	1:C:1564:PHE:HD1	2.30	0.45
1:C:3785:ALA:C	1:C:3787:LYS:N	2.75	0.45
1:C:4141:PHE:HZ	1:C:4196:GLU:HA	1.80	0.45
1:C:4231:MET:O	1:C:4235:VAL:HG23	2.16	0.45
1:C:4651:THR:HG23	1:C:4652:LEU:N	2.31	0.45
1:D:3986:TRP:H	1:D:3988:ALA:CB	2.29	0.45
1:D:4192:ARG:NH1	1:D:5028:PHE:CE2	2.84	0.45
1:D:4715:TYR:CE1	1:D:4716:TRP:O	2.70	0.45
1:D:4922:PHE:CD1	1:D:4922:PHE:O	2.70	0.45
1:A:4034:ASN:O	1:A:4153:HIS:CE1	2.69	0.45
1:A:4173:TYR:HD2	1:A:4174:PHE:HD1	1.64	0.45
1:A:4861:LYS:O	1:A:4862:PHE:CD1	2.70	0.45
1:B:55:ALA:HA	1:B:58:VAL:O	2.17	0.45
1:B:2531:ARG:O	1:B:2534:ALA:N	2.50	0.45
1:B:4180:ARG:H	1:B:4181:ILE:HG12	1.79	0.45
1:B:4716:TRP:O	1:B:4716:TRP:CE3	2.70	0.45
1:B:4931:ILE:CG2	1:C:4936:ILE:HD11	2.47	0.45
1:C:254:THR:N	1:C:255:HIS:CB	2.79	0.45
1:C:1287:LEU:HA	1:C:1554:VAL:O	2.17	0.45
1:C:2464:ASP:N	1:C:2467:VAL:H	2.08	0.45
1:C:2777:TYR:N	1:C:2854:GLY:HA2	2.31	0.45
1:C:3047:ALA:O	1:C:3050:VAL:CB	2.64	0.45
1:C:4008:SER:N	1:C:4009:GLN:CB	2.80	0.45
1:C:4102:GLN:O	1:C:4103:PHE:CG	2.70	0.45
1:C:4715:TYR:CE1	1:C:4716:TRP:O	2.70	0.45
1:C:4968:PHE:HD2	1:C:4978:HIS:HB2	1.71	0.45
1:D:55:ALA:HA	1:D:58:VAL:O	2.17	0.45
1:D:180:LEU:HA	1:D:181:HIS:HA	1.60	0.45
1:D:707:VAL:HA	1:D:725:HIS:CA	2.46	0.45
1:D:927:GLU:O	1:D:930:LYS:N	2.50	0.45
1:D:2274:ASP:CA	1:D:2277:ALA:HB3	2.47	0.45
1:D:2342:ASN:CA	1:D:2343:GLY:C	2.86	0.45
1:D:2592:GLY:N	1:D:2595:LEU:H	1.95	0.45
1:D:3047:ALA:O	1:D:3050:VAL:CB	2.64	0.45
1:D:3833:GLN:CA	1:D:3833:GLN:NE2	2.73	0.45
1:D:4102:GLN:O	1:D:4103:PHE:CG	2.70	0.45
1:D:4231:MET:O	1:D:4235:VAL:HG23	2.16	0.45
1:D:4687:TYR:N	1:D:4692:PRO:CD	2.61	0.45
1:A:535:ALA:O	1:A:536:ASN:C	2.58	0.45
1:A:927:GLU:O	1:A:930:LYS:N	2.50	0.45
1:A:1237:TRP:CA	1:A:1611:HIS:CB	2.87	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3934:TYR:CD1	1:A:3935:TRP:CE3	3.04	0.45
1:A:4192:ARG:NH1	1:A:5028:PHE:CE2	2.84	0.45
1:A:4959:PHE:O	1:A:4959:PHE:CD1	2.70	0.45
1:B:16:THR:O	1:B:17:ASP:CB	2.64	0.45
1:B:1679:ASN:O	1:B:1680:ARG:C	2.59	0.45
1:B:3785:ALA:O	1:B:3787:LYS:N	2.50	0.45
1:B:3833:GLN:CA	1:B:3833:GLN:NE2	2.73	0.45
1:B:3934:TYR:CD1	1:B:3935:TRP:CE3	3.04	0.45
1:B:4984:ASN:O	1:B:4985:LEU:C	2.55	0.45
1:C:2790:MET:C	1:C:2792:ARG:H	2.25	0.45
1:C:3937:TYR:OH	1:C:3943:ILE:C	2.60	0.45
1:C:3986:TRP:H	1:C:3988:ALA:CB	2.29	0.45
1:C:4173:TYR:HD2	1:C:4174:PHE:HD1	1.64	0.45
1:C:4997:ASN:O	1:C:4998:LYS:CB	2.65	0.45
1:D:2274:ASP:CB	1:D:2277:ALA:HB2	2.47	0.45
1:D:4173:TYR:CD2	1:D:4174:PHE:CD1	3.01	0.45
1:A:2274:ASP:CA	1:A:2277:ALA:HB3	2.47	0.45
1:A:5001:THR:HG23	1:A:5002:GLU:N	2.30	0.45
1:B:1161:ILE:HA	1:B:1178:ALA:HB3	1.83	0.45
1:B:1285:GLU:CB	1:B:1555:LEU:CB	2.94	0.45
1:B:1688:HIS:H	1:B:1690:ASP:H	1.63	0.45
1:B:2145:SER:CB	1:B:3648:ARG:CB	2.94	0.45
1:B:3933:PHE:CE1	1:B:3951:PHE:HE2	2.34	0.45
1:B:4644:TRP:C	1:B:4644:TRP:CD2	2.94	0.45
1:B:4715:TYR:CE1	1:B:4716:TRP:O	2.70	0.45
1:B:4783:ILE:HD13	1:B:4784:PHE:N	2.31	0.45
1:C:277:GLY:HA2	1:C:316:PHE:O	2.16	0.45
1:C:2274:ASP:CB	1:C:2277:ALA:HB2	2.47	0.45
1:C:2509:VAL:O	1:C:2510:TYR:CD2	2.70	0.45
1:C:4088:ILE:O	1:C:4092:ASP:CA	2.65	0.45
1:C:4642:ALA:CA	1:C:4645:CYS:SG	3.01	0.45
1:D:1160:ILE:O	1:D:1162:PHE:HD1	1.99	0.45
1:D:2531:ARG:O	1:D:2534:ALA:N	2.50	0.45
1:D:4154:VAL:HG12	1:D:4154:VAL:O	2.16	0.45
1:A:422:SER:N	1:A:423:GLY:CA	2.71	0.45
1:A:1213:PHE:C	1:A:1215:ALA:H	2.25	0.45
1:A:1287:LEU:HA	1:A:1554:VAL:O	2.17	0.45
1:A:4180:ARG:N	1:A:4181:ILE:HG12	2.32	0.45
1:A:4574:ASN:OD1	1:A:4810:ALA:HB1	2.17	0.45
1:A:4715:TYR:CE1	1:A:4716:TRP:O	2.70	0.45
1:A:4727:LYS:O	1:A:4730:ASP:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4944:ARG:C	1:A:4944:ARG:CD	2.85	0.45
1:B:1638:ALA:HB2	1:B:1649:ASP:HA	1.99	0.45
1:B:2509:VAL:O	1:B:2510:TYR:CD2	2.70	0.45
1:B:4008:SER:N	1:B:4009:GLN:CB	2.80	0.45
1:B:4108:ILE:C	1:B:4108:ILE:CD1	2.85	0.45
1:B:4696:ASP:HA	1:B:4697:VAL:HA	1.79	0.45
1:B:4800:LEU:HD22	1:B:4801:LEU:HD23	1.99	0.45
1:C:535:ALA:O	1:C:536:ASN:C	2.58	0.45
1:C:645:ARG:CB	1:C:780:VAL:HA	2.47	0.45
1:C:789:VAL:N	1:C:1628:VAL:O	2.46	0.45
1:C:927:GLU:O	1:C:930:LYS:N	2.50	0.45
1:C:1086:GLY:H	1:C:1155:LEU:CB	2.29	0.45
1:C:1441:ALA:HA	1:C:1561:VAL:O	2.16	0.45
1:C:1708:ARG:O	1:C:1712:TYR:CD2	2.70	0.45
1:C:4922:PHE:CD1	1:C:4922:PHE:O	2.70	0.45
1:C:4922:PHE:O	1:C:4922:PHE:CG	2.70	0.45
1:D:354:GLY:O	1:D:356:TRP:CD1	2.70	0.45
1:D:4715:TYR:O	1:D:4716:TRP:CD2	2.70	0.45
1:D:4843:LEU:HD23	1:D:4844:LEU:N	2.31	0.45
1:D:4959:PHE:O	1:D:4959:PHE:CD1	2.70	0.45
1:D:4996:ILE:HD13	1:D:4996:ILE:HA	1.81	0.45
1:A:38:ALA:CB	1:A:64:ILE:C	2.73	0.45
1:A:645:ARG:CB	1:A:780:VAL:HA	2.47	0.45
1:A:791:PHE:O	1:A:1626:TRP:O	2.35	0.45
1:A:3947:GLY:O	1:A:3948:LYS:C	2.59	0.45
1:A:4715:TYR:O	1:A:4716:TRP:CD2	2.70	0.45
1:B:4843:LEU:HD23	1:B:4844:LEU:N	2.31	0.45
1:B:4852:THR:HG21	1:B:4883:TYR:HA	1.99	0.45
1:C:55:ALA:HA	1:C:58:VAL:O	2.17	0.45
1:C:1133:HIS:CA	1:C:1134:LEU:C	2.90	0.45
1:D:1160:ILE:O	1:D:1162:PHE:CD1	2.70	0.45
1:D:1276:THR:CB	1:D:1564:PHE:HD1	2.30	0.45
1:D:1287:LEU:HA	1:D:1554:VAL:O	2.17	0.45
1:D:1292:SER:CA	1:D:1600:LEU:CB	2.95	0.45
1:D:3835:LEU:C	1:D:3837:GLN:N	2.72	0.45
1:D:3933:PHE:CE2	1:D:3951:PHE:CD2	2.91	0.45
1:D:4943:LEU:C	1:D:4943:LEU:CD1	2.85	0.45
1:A:168:ASP:CB	1:A:169:LEU:CA	2.82	0.44
1:A:1803:PRO:O	1:A:1806:ALA:CB	2.60	0.44
1:A:2274:ASP:CB	1:A:2277:ALA:HB2	2.47	0.44
1:A:2790:MET:C	1:A:2792:ARG:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4642:ALA:CA	1:A:4645:CYS:SG	3.01	0.44
1:A:4651:THR:HG23	1:A:4652:LEU:N	2.31	0.44
1:A:4800:LEU:HD22	1:A:4801:LEU:HD23	1.99	0.44
1:A:4843:LEU:HD23	1:A:4844:LEU:N	2.31	0.44
1:A:4927:ILE:C	1:A:4927:ILE:CD1	2.85	0.44
1:B:788:LYS:CB	1:B:1629:GLN:HA	2.39	0.44
1:B:1287:LEU:HA	1:B:1554:VAL:O	2.17	0.44
1:B:4914:VAL:CG2	1:C:4888:TYR:CD2	2.66	0.44
1:B:4922:PHE:CD1	1:B:4922:PHE:O	2.70	0.44
1:C:354:GLY:O	1:C:356:TRP:CD1	2.70	0.44
1:C:1160:ILE:O	1:C:1162:PHE:CD1	2.70	0.44
1:C:1679:ASN:O	1:C:1680:ARG:C	2.59	0.44
1:C:3894:GLY:O	1:C:3895:HIS:CD2	2.70	0.44
1:C:4034:ASN:O	1:C:4153:HIS:CE1	2.69	0.44
1:C:4574:ASN:OD1	1:C:4810:ALA:HB1	2.17	0.44
1:C:4652:LEU:HD13	1:C:4652:LEU:O	2.17	0.44
1:C:4656:LEU:C	1:C:4656:LEU:CD1	2.85	0.44
1:C:4885:PHE:CE1	1:C:4889:VAL:HG11	2.48	0.44
1:C:4972:PRO:O	1:C:4973:HIS:CG	2.70	0.44
1:D:277:GLY:HA2	1:D:316:PHE:O	2.16	0.44
1:D:3947:GLY:O	1:D:3948:LYS:C	2.59	0.44
1:D:4008:SER:N	1:D:4009:GLN:CB	2.80	0.44
1:D:4651:THR:HG23	1:D:4652:LEU:N	2.31	0.44
1:D:4681:LEU:HD23	1:D:4681:LEU:HA	1.76	0.44
1:D:4834:GLY:HA2	1:D:4837:LEU:CB	2.36	0.44
1:D:4997:ASN:O	1:D:4998:LYS:CB	2.65	0.44
1:A:707:VAL:HA	1:A:725:HIS:CA	2.46	0.44
1:A:4794:TRP:CE3	1:A:4794:TRP:C	2.96	0.44
1:A:4823:LEU:C	1:A:4823:LEU:CD1	2.85	0.44
1:A:4852:THR:HG21	1:A:4883:TYR:HA	1.99	0.44
1:B:1276:THR:CB	1:B:1564:PHE:HD1	2.30	0.44
1:B:3758:MET:C	1:B:3760:LYS:N	2.73	0.44
1:B:3945:GLU:C	1:B:3947:GLY:N	2.73	0.44
1:B:4574:ASN:OD1	1:B:4810:ALA:HB1	2.17	0.44
1:B:4715:TYR:O	1:B:4716:TRP:CD2	2.70	0.44
1:C:1292:SER:CA	1:C:1600:LEU:CB	2.95	0.44
1:C:1718:ILE:O	1:C:1719:HIS:C	2.56	0.44
1:C:2531:ARG:O	1:C:2534:ALA:N	2.50	0.44
1:C:4948:GLU:C	1:C:4948:GLU:CD	2.85	0.44
1:D:645:ARG:CB	1:D:780:VAL:HA	2.47	0.44
1:D:1094:ALA:O	1:D:1146:GLY:HA2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3061:ALA:C	1:D:3064:VAL:N	2.74	0.44
1:D:3785:ALA:O	1:D:3787:LYS:N	2.50	0.44
1:D:4183:ILE:CG2	1:D:4190:ILE:CG1	2.90	0.44
1:D:4783:ILE:HD13	1:D:4789:PHE:CE2	2.52	0.44
1:D:4791:TYR:OH	1:D:4816:ILE:O	2.35	0.44
1:D:4972:PRO:O	1:D:4973:HIS:CG	2.70	0.44
1:A:55:ALA:HA	1:A:58:VAL:O	2.17	0.44
1:A:1160:ILE:O	1:A:1162:PHE:CD1	2.70	0.44
1:A:1276:THR:CB	1:A:1564:PHE:HD1	2.30	0.44
1:A:4798:MET:CB	1:A:4812:HIS:CB	2.95	0.44
1:B:354:GLY:O	1:B:356:TRP:CD1	2.70	0.44
1:B:669:ASP:N	1:B:788:LYS:O	2.49	0.44
1:B:1273:ALA:CB	1:B:1274:HIS:HA	2.18	0.44
1:B:1466:LEU:HA	1:B:1467:SER:HA	1.65	0.44
1:B:3937:TYR:OH	1:B:3943:ILE:C	2.60	0.44
1:B:4959:PHE:O	1:B:4959:PHE:CD1	2.70	0.44
1:B:4975:PHE:CE1	1:B:4979:THR:CG2	3.01	0.44
1:C:3785:ALA:O	1:C:3787:LYS:N	2.50	0.44
1:C:4644:TRP:HE3	1:C:4645:CYS:CA	2.26	0.44
1:C:4794:TRP:CE3	1:C:4794:TRP:C	2.96	0.44
1:C:4914:VAL:HG13	1:C:4915:VAL:N	2.32	0.44
1:D:3062:PRO:CA	1:D:3063:ALA:C	2.91	0.44
1:D:4088:ILE:O	1:D:4092:ASP:CA	2.65	0.44
1:D:4659:ILE:HG23	1:D:4660:GLY:N	2.32	0.44
1:D:4794:TRP:CE3	1:D:4794:TRP:C	2.96	0.44
1:D:4927:ILE:HD12	1:D:4928:LEU:N	2.32	0.44
1:A:2509:VAL:O	1:A:2510:TYR:CD2	2.70	0.44
1:A:4102:GLN:O	1:A:4103:PHE:CG	2.70	0.44
1:A:4178:LEU:C	1:A:4178:LEU:CD1	2.84	0.44
1:A:4925:ILE:CD1	1:A:4925:ILE:H	2.18	0.44
1:B:153:ALA:H	1:B:169:LEU:CB	2.31	0.44
1:B:1160:ILE:O	1:B:1162:PHE:CD1	2.70	0.44
1:B:1708:ARG:O	1:B:1712:TYR:CD2	2.70	0.44
1:B:4036:VAL:O	1:B:4153:HIS:O	2.36	0.44
1:B:4088:ILE:O	1:B:4092:ASP:CA	2.65	0.44
1:B:4701:TRP:CD1	1:B:4701:TRP:C	2.95	0.44
1:B:4885:PHE:CE2	1:B:4889:VAL:HG11	2.49	0.44
1:B:4927:ILE:HD12	1:B:4928:LEU:N	2.33	0.44
1:C:21:VAL:O	1:C:203:ASN:O	2.36	0.44
1:C:2273:LEU:C	1:C:2276:ALA:H	2.26	0.44
1:C:4208:PRO:CG	1:C:4209:GLN:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4927:ILE:HD12	1:C:4928:LEU:N	2.32	0.44
1:D:669:ASP:N	1:D:788:LYS:O	2.49	0.44
1:D:4798:MET:CB	1:D:4812:HIS:CB	2.95	0.44
1:D:4925:ILE:CD1	1:D:4925:ILE:N	2.73	0.44
1:D:4995:LEU:HD12	1:D:5011:TRP:HZ3	1.80	0.44
1:A:1466:LEU:HA	1:A:1467:SER:HA	1.65	0.44
1:A:4008:SER:CB	1:A:4009:GLN:HA	2.48	0.44
1:A:4182:GLU:OE2	1:A:4988:TYR:CD1	2.71	0.44
1:A:4652:LEU:HD13	1:A:4652:LEU:O	2.17	0.44
1:A:4948:GLU:C	1:A:4948:GLU:CD	2.85	0.44
1:B:1638:ALA:HB1	1:B:1649:ASP:N	2.24	0.44
1:B:2273:LEU:C	1:B:2276:ALA:H	2.25	0.44
1:B:4105:GLY:N	1:B:4106:PRO:CD	2.81	0.44
1:B:4783:ILE:HD13	1:B:4789:PHE:CE2	2.52	0.44
1:B:4948:GLU:C	1:B:4948:GLU:CD	2.85	0.44
1:C:1213:PHE:C	1:C:1215:ALA:H	2.25	0.44
1:C:1934:SER:O	1:C:1935:VAL:C	2.58	0.44
1:C:4088:ILE:O	1:C:4092:ASP:C	2.59	0.44
1:C:4190:ILE:O	1:C:4190:ILE:HG23	2.18	0.44
1:C:4716:TRP:O	1:C:4716:TRP:CE3	2.70	0.44
1:C:4959:PHE:CD1	1:C:4959:PHE:O	2.70	0.44
1:D:379:HIS:CA	1:D:380:GLN:C	2.91	0.44
1:D:2790:MET:C	1:D:2792:ARG:H	2.24	0.44
1:D:4180:ARG:N	1:D:4181:ILE:HG12	2.32	0.44
1:D:4574:ASN:OD1	1:D:4810:ALA:HB1	2.17	0.44
1:D:4975:PHE:CE1	1:D:4979:THR:CG2	3.01	0.44
1:A:669:ASP:N	1:A:788:LYS:O	2.49	0.44
1:A:1094:ALA:O	1:A:1146:GLY:HA2	2.18	0.44
1:A:1133:HIS:CA	1:A:1134:LEU:C	2.90	0.44
1:A:1276:THR:CB	1:A:1564:PHE:CD1	3.01	0.44
1:A:1688:HIS:H	1:A:1690:ASP:H	1.63	0.44
1:A:3833:GLN:C	1:A:3833:GLN:NE2	2.73	0.44
1:A:3877:ASP:HA	1:A:3878:ASP:HA	1.86	0.44
1:A:3937:TYR:OH	1:A:3943:ILE:C	2.60	0.44
1:A:4008:SER:N	1:A:4009:GLN:CB	2.80	0.44
1:A:4659:ILE:HG23	1:A:4660:GLY:N	2.32	0.44
1:A:4701:TRP:CD1	1:A:4701:TRP:C	2.95	0.44
1:A:4791:TYR:OH	1:A:4816:ILE:O	2.35	0.44
1:A:4922:PHE:CD1	1:A:4922:PHE:O	2.70	0.44
1:B:21:VAL:O	1:B:203:ASN:O	2.36	0.44
1:B:1093:GLU:O	1:B:1200:GLY:HA3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1276:THR:CB	1:B:1564:PHE:CD1	3.01	0.44
1:B:3061:ALA:C	1:B:3064:VAL:N	2.74	0.44
1:B:3062:PRO:CA	1:B:3063:ALA:C	2.91	0.44
1:B:4861:LYS:O	1:B:4862:PHE:CD1	2.70	0.44
1:C:133:PHE:CD1	1:C:133:PHE:N	2.86	0.44
1:C:1160:ILE:O	1:C:1162:PHE:HD1	1.99	0.44
1:C:3933:PHE:CE2	1:C:3951:PHE:CD2	2.91	0.44
1:C:3935:TRP:CE3	1:C:3935:TRP:CA	2.97	0.44
1:C:4105:GLY:N	1:C:4106:PRO:CD	2.81	0.44
1:C:4171:LEU:C	1:C:4171:LEU:CD2	2.85	0.44
1:C:4715:TYR:O	1:C:4716:TRP:CD2	2.70	0.44
1:C:4783:ILE:HD13	1:C:4784:PHE:N	2.31	0.44
1:D:1276:THR:CB	1:D:1564:PHE:CD1	3.01	0.44
1:D:1638:ALA:HB2	1:D:1649:ASP:HA	1.99	0.44
1:D:1708:ARG:O	1:D:1712:TYR:CD2	2.70	0.44
1:D:4632:LEU:HA	1:D:4633:GLU:CB	2.48	0.44
1:D:4652:LEU:HD13	1:D:4652:LEU:O	2.17	0.44
1:D:4652:LEU:C	1:D:4652:LEU:CD1	2.86	0.44
1:D:4823:LEU:C	1:D:4823:LEU:CD1	2.85	0.44
1:D:4922:PHE:O	1:D:4922:PHE:CG	2.70	0.44
1:A:3658:LYS:CA	1:A:3661:TRP:CD1	2.91	0.44
1:A:3894:GLY:O	1:A:3895:HIS:CD2	2.70	0.44
1:A:4701:TRP:O	1:A:4701:TRP:CD1	2.70	0.44
1:A:4985:LEU:N	1:A:4985:LEU:CD1	2.73	0.44
1:B:73:LEU:H	1:B:106:ALA:N	2.15	0.44
1:B:279:PRO:HA	1:B:315:CYS:CB	2.48	0.44
1:B:2240:CYS:C	1:B:2242:ILE:N	2.76	0.44
1:B:4154:VAL:HG12	1:B:4154:VAL:O	2.16	0.44
1:C:16:THR:O	1:C:17:ASP:CB	2.64	0.44
1:C:1638:ALA:HB1	1:C:1649:ASP:N	2.24	0.44
1:C:3877:ASP:HA	1:C:3878:ASP:HA	1.86	0.44
1:C:4632:LEU:HA	1:C:4633:GLU:CB	2.48	0.44
1:C:4659:ILE:HG23	1:C:4660:GLY:N	2.32	0.44
1:C:4975:PHE:CE1	1:C:4979:THR:CG2	3.01	0.44
1:D:1213:PHE:C	1:D:1215:ALA:H	2.25	0.44
1:D:2273:LEU:C	1:D:2276:ALA:H	2.26	0.44
1:D:2509:VAL:O	1:D:2510:TYR:CD2	2.70	0.44
1:A:245:VAL:C	1:A:247:TYR:N	2.67	0.44
1:A:3827:GLY:O	1:A:3830:GLN:N	2.51	0.44
1:B:39:ALA:CA	1:B:47:CYS:HA	2.48	0.44
1:B:535:ALA:C	1:B:537:CYS:N	2.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4632:LEU:HA	1:B:4633:GLU:CB	2.48	0.44
1:C:103:TYR:HA	1:C:104:GLY:HA2	1.62	0.44
1:C:153:ALA:H	1:C:169:LEU:CB	2.31	0.44
1:C:279:PRO:HA	1:C:315:CYS:CB	2.48	0.44
1:C:1205:GLY:O	1:C:1209:SER:CB	2.66	0.44
1:C:1638:ALA:HB2	1:C:1649:ASP:HA	1.99	0.44
1:C:4664:LEU:O	1:C:4667:PRO:CD	2.66	0.44
1:C:4664:LEU:C	1:C:4664:LEU:CD1	2.85	0.44
1:C:4783:ILE:HD13	1:C:4789:PHE:CE2	2.52	0.44
1:C:4952:GLU:CD	1:C:4952:GLU:C	2.85	0.44
1:D:4003:LEU:HA	1:D:4004:ALA:HA	1.68	0.44
1:D:4105:GLY:N	1:D:4106:PRO:CD	2.81	0.44
1:D:4173:TYR:HD2	1:D:4174:PHE:HD1	1.64	0.44
1:A:2240:CYS:C	1:A:2242:ILE:N	2.76	0.44
1:A:4975:PHE:CE1	1:A:4979:THR:CG2	3.01	0.44
1:B:379:HIS:N	1:B:381:GLU:N	2.66	0.44
1:B:1160:ILE:O	1:B:1162:PHE:HD1	1.99	0.44
1:B:2446:GLY:HA2	1:B:2447:LYS:HA	1.85	0.44
1:B:2464:ASP:N	1:B:2467:VAL:H	2.08	0.44
1:B:2646:ASN:CB	1:B:2699:ALA:HB1	2.48	0.44
1:B:3087:ILE:O	1:B:3090:ALA:HB3	2.18	0.44
1:B:4141:PHE:HZ	1:B:4196:GLU:HA	1.80	0.44
1:B:4652:LEU:HD13	1:B:4652:LEU:O	2.17	0.44
1:B:4798:MET:CB	1:B:4812:HIS:CB	2.95	0.44
1:B:4924:VAL:HG23	1:B:4925:ILE:H	1.83	0.44
1:B:4942:GLU:CA	1:C:4944:ARG:HH22	2.31	0.44
1:B:4947:GLN:OE1	1:B:4948:GLU:N	2.51	0.44
1:C:17:ASP:HA	1:C:69:LEU:O	2.18	0.44
1:C:1276:THR:CB	1:C:1562:ILE:C	2.88	0.44
1:C:1718:ILE:C	1:C:1720:LEU:CA	2.91	0.44
1:C:4794:TRP:O	1:C:4797:VAL:HG12	2.18	0.44
1:C:4798:MET:CB	1:C:4812:HIS:CB	2.95	0.44
1:D:119:SER:N	1:D:137:LEU:HA	2.33	0.44
1:D:379:HIS:N	1:D:381:GLU:N	2.66	0.44
1:D:789:VAL:C	1:D:1627:ALA:CB	2.87	0.44
1:D:1093:GLU:O	1:D:1200:GLY:HA3	2.18	0.44
1:D:2102:VAL:O	1:D:2105:TRP:CD1	2.71	0.44
1:D:2240:CYS:C	1:D:2242:ILE:N	2.76	0.44
1:D:3827:GLY:O	1:D:3830:GLN:N	2.51	0.44
1:D:4794:TRP:O	1:D:4797:VAL:HG12	2.18	0.44
1:A:133:PHE:CD1	1:A:133:PHE:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:CYS:CB	1:A:570:GLU:CB	2.96	0.43
1:A:1093:GLU:O	1:A:1200:GLY:HA3	2.17	0.43
1:A:1272:LEU:N	1:A:1273:ALA:CB	2.73	0.43
1:A:2102:VAL:O	1:A:2105:TRP:CD1	2.71	0.43
1:A:3062:PRO:CA	1:A:3063:ALA:C	2.91	0.43
1:A:3087:ILE:O	1:A:3090:ALA:HB3	2.18	0.43
1:A:4632:LEU:HA	1:A:4633:GLU:CB	2.48	0.43
1:A:4914:VAL:HG13	1:A:4915:VAL:N	2.32	0.43
1:A:4934:GLY:HA3	1:B:4937:ILE:HD11	1.47	0.43
1:B:1292:SER:CA	1:B:1600:LEU:CB	2.95	0.43
1:B:2505:PHE:CE1	1:B:2509:VAL:CB	3.01	0.43
1:B:2509:VAL:O	1:B:2510:TYR:CG	2.71	0.43
1:B:4180:ARG:N	1:B:4181:ILE:HG12	2.32	0.43
1:B:4208:PRO:CG	1:B:4209:GLN:N	2.81	0.43
1:B:4711:PHE:CD1	1:B:4711:PHE:O	2.71	0.43
1:B:4972:PRO:O	1:B:4973:HIS:CG	2.70	0.43
1:C:701:GLY:CA	1:C:1645:ASN:CB	2.96	0.43
1:C:1083:VAL:O	1:C:1187:GLY:HA3	2.18	0.43
1:C:1212:ARG:CB	1:C:1213:PHE:HA	2.49	0.43
1:C:2509:VAL:O	1:C:2510:TYR:CG	2.71	0.43
1:C:3104:GLU:O	1:C:3108:GLU:N	2.36	0.43
1:C:4036:VAL:O	1:C:4153:HIS:O	2.36	0.43
1:C:4947:GLN:CD	1:C:4947:GLN:C	2.86	0.43
1:D:133:PHE:CD1	1:D:133:PHE:N	2.86	0.43
1:D:153:ALA:H	1:D:169:LEU:CB	2.31	0.43
1:D:701:GLY:CA	1:D:1645:ASN:CB	2.96	0.43
1:D:1133:HIS:CA	1:D:1134:LEU:C	2.90	0.43
1:D:1718:ILE:C	1:D:1720:LEU:CA	2.91	0.43
1:D:1815:LEU:O	1:D:1818:ALA:HB3	2.18	0.43
1:D:4008:SER:CB	1:D:4009:GLN:HA	2.48	0.43
1:D:4141:PHE:HZ	1:D:4196:GLU:HA	1.81	0.43
1:D:4146:LEU:C	1:D:4146:LEU:CD2	2.85	0.43
1:A:153:ALA:H	1:A:169:LEU:CB	2.31	0.43
1:A:839:LEU:O	1:A:1199:VAL:CA	2.61	0.43
1:A:1292:SER:CA	1:A:1600:LEU:CB	2.95	0.43
1:A:3795:SER:CA	1:A:3880:PHE:HE2	2.32	0.43
1:A:4972:PRO:O	1:A:4973:HIS:CG	2.70	0.43
1:B:111:HIS:CA	1:B:113:HIS:O	2.66	0.43
1:B:379:HIS:CA	1:B:380:GLN:C	2.91	0.43
1:B:500:ALA:C	1:B:502:HIS:N	2.74	0.43
1:B:1094:ALA:O	1:B:1146:GLY:HA2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1718:ILE:C	1:B:1720:LEU:CA	2.91	0.43
1:B:1815:LEU:O	1:B:1818:ALA:HB3	2.18	0.43
1:B:3894:GLY:O	1:B:3895:HIS:CD2	2.70	0.43
1:B:4659:ILE:HG23	1:B:4660:GLY:N	2.32	0.43
1:B:4794:TRP:CE3	1:B:4794:TRP:C	2.96	0.43
1:B:4995:LEU:CD1	1:B:4995:LEU:C	2.85	0.43
1:C:1276:THR:CB	1:C:1564:PHE:CD1	3.01	0.43
1:D:2464:ASP:N	1:D:2467:VAL:H	2.08	0.43
1:D:2531:ARG:O	1:D:2533:ALA:N	2.51	0.43
1:D:3087:ILE:O	1:D:3090:ALA:HB3	2.18	0.43
1:D:3795:SER:CA	1:D:3880:PHE:HE2	2.32	0.43
1:D:4643:LEU:C	1:D:4643:LEU:CD1	2.85	0.43
1:D:4861:LYS:O	1:D:4862:PHE:CD1	2.70	0.43
1:D:4924:VAL:HG23	1:D:4925:ILE:H	1.82	0.43
1:D:4948:GLU:CD	1:D:4948:GLU:C	2.85	0.43
1:A:17:ASP:HA	1:A:69:LEU:O	2.18	0.43
1:A:119:SER:N	1:A:137:LEU:HA	2.33	0.43
1:A:354:GLY:O	1:A:356:TRP:CD1	2.70	0.43
1:A:500:ALA:C	1:A:502:HIS:H	2.26	0.43
1:A:789:VAL:C	1:A:1627:ALA:CB	2.87	0.43
1:A:2646:ASN:CB	1:A:2699:ALA:HB1	2.48	0.43
1:A:4927:ILE:HD12	1:A:4928:LEU:N	2.32	0.43
1:B:1133:HIS:CA	1:B:1134:LEU:C	2.90	0.43
1:B:1205:GLY:O	1:B:1209:SER:CB	2.66	0.43
1:B:4947:GLN:C	1:B:4947:GLN:CD	2.87	0.43
1:B:5031:GLN:NE2	1:B:5031:GLN:C	2.75	0.43
1:C:379:HIS:CA	1:C:380:GLN:C	2.91	0.43
1:C:500:ALA:C	1:C:502:HIS:N	2.74	0.43
1:C:1815:LEU:O	1:C:1818:ALA:HB3	2.18	0.43
1:C:2531:ARG:O	1:C:2533:ALA:N	2.51	0.43
1:C:2646:ASN:CB	1:C:2699:ALA:HB1	2.48	0.43
1:C:3062:PRO:CA	1:C:3063:ALA:C	2.91	0.43
1:C:4235:VAL:CA	1:C:4238:CYS:SG	3.00	0.43
1:C:4850:LEU:C	1:C:4850:LEU:CD2	2.85	0.43
1:D:789:VAL:O	1:D:1627:ALA:HB1	2.18	0.43
1:D:4642:ALA:CA	1:D:4645:CYS:SG	3.01	0.43
1:D:4806:ASN:N	1:D:4806:ASN:ND2	2.60	0.43
1:D:4914:VAL:HG13	1:D:4915:VAL:N	2.32	0.43
1:D:4975:PHE:CE1	1:D:4979:THR:HG21	2.54	0.43
1:A:111:HIS:CA	1:A:113:HIS:O	2.66	0.43
1:A:178:ARG:CB	1:A:179:TYR:CB	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1718:ILE:C	1:A:1720:LEU:CA	2.91	0.43
1:A:2531:ARG:O	1:A:2534:ALA:N	2.50	0.43
1:A:3658:LYS:O	1:A:3662:ILE:CB	2.67	0.43
1:A:4058:ILE:O	1:A:4062:PHE:HD1	2.01	0.43
1:A:4088:ILE:O	1:A:4092:ASP:CA	2.65	0.43
1:A:4857:ASN:O	1:A:4858:PHE:HD1	1.87	0.43
1:B:133:PHE:CD1	1:B:133:PHE:N	2.86	0.43
1:B:178:ARG:CB	1:B:179:TYR:CB	2.96	0.43
1:B:701:GLY:CA	1:B:1645:ASN:CB	2.96	0.43
1:B:3947:GLY:O	1:B:3948:LYS:C	2.59	0.43
1:B:4968:PHE:CB	1:B:4975:PHE:HA	2.25	0.43
1:C:73:LEU:H	1:C:106:ALA:N	2.15	0.43
1:C:537:CYS:CB	1:C:570:GLU:CB	2.96	0.43
1:C:2505:PHE:CE1	1:C:2509:VAL:CB	3.01	0.43
1:C:3896:ASN:CB	1:C:3899:PHE:H	2.32	0.43
1:C:4968:PHE:HD2	1:C:4978:HIS:HB3	1.78	0.43
1:D:72:SER:CB	1:D:106:ALA:O	2.66	0.43
1:D:1803:PRO:O	1:D:1806:ALA:CA	2.67	0.43
1:D:3668:SER:O	1:D:3671:ASP:N	2.52	0.43
1:D:3896:ASN:CB	1:D:3899:PHE:H	2.32	0.43
1:D:4058:ILE:O	1:D:4062:PHE:HD1	2.01	0.43
1:D:4208:PRO:CG	1:D:4209:GLN:N	2.81	0.43
1:A:543:ASN:O	1:A:546:TRP:HB3	2.19	0.43
1:A:1086:GLY:H	1:A:1155:LEU:CB	2.29	0.43
1:A:1638:ALA:HB2	1:A:1649:ASP:HA	1.99	0.43
1:A:2273:LEU:C	1:A:2276:ALA:H	2.26	0.43
1:A:2765:LYS:O	1:A:2769:ASP:N	2.41	0.43
1:A:3785:ALA:C	1:A:3787:LYS:N	2.74	0.43
1:A:4181:ILE:CG2	1:A:4182:GLU:H	2.20	0.43
1:A:4711:PHE:CD1	1:A:4711:PHE:O	2.71	0.43
1:A:4794:TRP:O	1:A:4797:VAL:HG12	2.18	0.43
1:A:4982:GLU:CB	1:A:4983:HIS:CA	2.97	0.43
1:B:17:ASP:HA	1:B:69:LEU:O	2.18	0.43
1:B:72:SER:CB	1:B:106:ALA:O	2.66	0.43
1:B:1212:ARG:CB	1:B:1213:PHE:HA	2.49	0.43
1:B:4146:LEU:C	1:B:4146:LEU:CD2	2.85	0.43
1:B:4147:LEU:C	1:B:4147:LEU:CD1	2.85	0.43
1:C:1093:GLU:O	1:C:1200:GLY:HA3	2.17	0.43
1:C:1736:VAL:O	1:C:2144:ILE:N	2.51	0.43
1:C:1831:GLY:C	1:C:1833:SER:H	2.25	0.43
1:C:3658:LYS:O	1:C:3662:ILE:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:17:ASP:HA	1:D:69:LEU:O	2.18	0.43
1:D:279:PRO:HA	1:D:315:CYS:CB	2.48	0.43
1:D:537:CYS:CB	1:D:570:GLU:CB	2.96	0.43
1:D:543:ASN:O	1:D:546:TRP:HB3	2.19	0.43
1:D:4102:GLN:O	1:D:4103:PHE:CD2	2.72	0.43
1:D:4562:LEU:CB	1:D:4657:CYS:CB	2.96	0.43
1:D:4701:TRP:CD1	1:D:4701:TRP:C	2.95	0.43
1:D:4985:LEU:N	1:D:4985:LEU:CD1	2.73	0.43
1:A:379:HIS:CA	1:A:380:GLN:C	2.91	0.43
1:A:1831:GLY:C	1:A:1833:SER:H	2.25	0.43
1:A:3937:TYR:C	1:A:3939:GLY:H	2.21	0.43
1:A:4178:LEU:HD12	1:A:4179:GLY:N	2.33	0.43
1:A:4222:VAL:CB	1:A:4950:VAL:HG13	2.48	0.43
1:A:4659:ILE:HD12	1:A:4659:ILE:HA	1.87	0.43
1:A:4936:ILE:HD11	1:D:4931:ILE:CG2	2.47	0.43
1:B:1821:ASP:C	1:B:1823:GLY:N	2.73	0.43
1:B:2102:VAL:O	1:B:2105:TRP:CD1	2.71	0.43
1:B:3792:ALA:O	1:B:3793:MET:C	2.59	0.43
1:B:3795:SER:CA	1:B:3880:PHE:HE2	2.32	0.43
1:B:3827:GLY:O	1:B:3830:GLN:N	2.51	0.43
1:B:4847:VAL:CG1	1:B:4848:VAL:N	2.82	0.43
1:B:4914:VAL:HG13	1:B:4915:VAL:N	2.32	0.43
1:C:3835:LEU:C	1:C:3837:GLN:N	2.72	0.43
1:C:4102:GLN:O	1:C:4103:PHE:CD2	2.72	0.43
1:C:4178:LEU:HD12	1:C:4179:GLY:N	2.33	0.43
1:C:4180:ARG:N	1:C:4181:ILE:HG12	2.32	0.43
1:D:232:THR:CB	1:D:248:GLU:CB	2.96	0.43
1:D:839:LEU:O	1:D:1199:VAL:CA	2.61	0.43
1:D:1205:GLY:O	1:D:1209:SER:CB	2.66	0.43
1:D:2777:TYR:N	1:D:2854:GLY:HA2	2.31	0.43
1:D:3894:GLY:O	1:D:3895:HIS:CD2	2.70	0.43
1:D:4190:ILE:O	1:D:4190:ILE:HG23	2.18	0.43
1:D:4847:VAL:CG1	1:D:4848:VAL:N	2.82	0.43
1:D:4855:ALA:HB2	1:D:4916:PHE:CZ	2.54	0.43
1:D:4968:PHE:HD2	1:D:4978:HIS:HB3	1.78	0.43
1:D:4982:GLU:CB	1:D:4983:HIS:CA	2.97	0.43
1:A:669:ASP:CB	1:A:788:LYS:C	2.92	0.43
1:A:1803:PRO:O	1:A:1806:ALA:CA	2.67	0.43
1:A:3699:HIS:O	1:A:3701:LEU:N	2.51	0.43
1:A:4852:THR:HG21	1:A:4882:CYS:C	2.44	0.43
1:A:4918:ILE:CD1	1:B:4891:VAL:HG21	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4975:PHE:CE1	1:A:4979:THR:HG21	2.54	0.43
1:B:72:SER:HA	1:B:106:ALA:N	2.33	0.43
1:B:232:THR:CB	1:B:248:GLU:CB	2.96	0.43
1:B:3658:LYS:CA	1:B:3661:TRP:CD1	2.91	0.43
1:B:3942:VAL:CB	1:B:3943:ILE:CA	2.89	0.43
1:B:4195:PHE:C	1:B:4195:PHE:CD1	2.97	0.43
1:B:4732:PHE:C	1:B:4733:GLY:O	2.62	0.43
1:B:4997:ASN:O	1:B:4998:LYS:CB	2.65	0.43
1:B:5018:CYS:O	1:B:5018:CYS:SG	2.76	0.43
1:C:1094:ALA:O	1:C:1146:GLY:HA2	2.18	0.43
1:C:1803:PRO:O	1:C:1806:ALA:CA	2.67	0.43
1:C:2063:LEU:HD22	1:C:2063:LEU:HA	1.77	0.43
1:C:4147:LEU:C	1:C:4147:LEU:CD1	2.86	0.43
1:C:4855:ALA:HB2	1:C:4916:PHE:CZ	2.54	0.43
1:D:1212:ARG:CB	1:D:1213:PHE:HA	2.49	0.43
1:D:1276:THR:CB	1:D:1562:ILE:C	2.88	0.43
1:D:3658:LYS:O	1:D:3662:ILE:CB	2.67	0.43
1:D:4222:VAL:CB	1:D:4950:VAL:HG13	2.49	0.43
1:D:4664:LEU:O	1:D:4667:PRO:CD	2.66	0.43
1:D:4711:PHE:CD1	1:D:4711:PHE:O	2.71	0.43
1:A:512:ALA:O	1:A:515:TRP:CE3	2.70	0.43
1:A:546:TRP:HE3	1:A:547:VAL:CA	2.32	0.43
1:A:701:GLY:CA	1:A:1645:ASN:CB	2.96	0.43
1:A:989:ALA:O	1:A:993:HIS:CB	2.67	0.43
1:A:3891:LEU:C	1:A:3892:CYS:O	2.56	0.43
1:A:4562:LEU:CB	1:A:4657:CYS:CB	2.96	0.43
1:B:537:CYS:CB	1:B:570:GLU:CB	2.96	0.43
1:B:669:ASP:CB	1:B:788:LYS:C	2.92	0.43
1:B:789:VAL:O	1:B:1627:ALA:HB1	2.18	0.43
1:B:789:VAL:N	1:B:1628:VAL:O	2.46	0.43
1:B:989:ALA:O	1:B:993:HIS:CB	2.67	0.43
1:B:3668:SER:O	1:B:3671:ASP:N	2.52	0.43
1:B:3896:ASN:CB	1:B:3899:PHE:H	2.32	0.43
1:B:4102:GLN:O	1:B:4103:PHE:CD2	2.72	0.43
1:B:4178:LEU:C	1:B:4178:LEU:CD1	2.84	0.43
1:B:4664:LEU:O	1:B:4667:PRO:CD	2.66	0.43
1:B:4834:GLY:CA	1:B:4837:LEU:H	2.31	0.43
1:C:111:HIS:CA	1:C:113:HIS:O	2.66	0.43
1:C:232:THR:CB	1:C:248:GLU:CB	2.96	0.43
1:C:2102:VAL:O	1:C:2105:TRP:CD1	2.71	0.43
1:C:3699:HIS:O	1:C:3701:LEU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3795:SER:CA	1:C:3880:PHE:HE2	2.32	0.43
1:C:4181:ILE:HD11	1:C:4194:TYR:C	2.44	0.43
1:C:4852:THR:HG21	1:C:4883:TYR:HA	1.99	0.43
1:C:4924:VAL:HG23	1:C:4925:ILE:H	1.82	0.43
1:D:3699:HIS:O	1:D:3701:LEU:N	2.51	0.43
1:D:4852:THR:HG21	1:D:4883:TYR:HA	1.99	0.43
1:A:279:PRO:HA	1:A:315:CYS:CB	2.48	0.43
1:A:347:PHE:CB	1:A:386:ASP:CB	2.97	0.43
1:A:500:ALA:C	1:A:502:HIS:N	2.74	0.43
1:A:608:VAL:CA	1:A:613:ALA:CB	2.85	0.43
1:A:1205:GLY:O	1:A:1209:SER:CB	2.66	0.43
1:A:1638:ALA:HB1	1:A:1649:ASP:N	2.24	0.43
1:A:1708:ARG:O	1:A:1712:TYR:CD2	2.70	0.43
1:A:2509:VAL:O	1:A:2510:TYR:CG	2.71	0.43
1:A:2531:ARG:O	1:A:2533:ALA:N	2.51	0.43
1:A:3896:ASN:CB	1:A:3899:PHE:H	2.32	0.43
1:A:4715:TYR:CD1	1:A:4715:TYR:C	2.97	0.43
1:A:4920:PHE:CZ	1:A:4924:VAL:HG21	2.54	0.43
1:A:4930:ALA:CB	1:B:4936:ILE:HD13	2.42	0.43
1:A:4930:ALA:C	1:B:4936:ILE:CD1	2.92	0.43
1:A:4968:PHE:CB	1:A:4975:PHE:HA	2.25	0.43
1:A:4997:ASN:O	1:A:4998:LYS:CB	2.65	0.43
1:B:1454:THR:H	1:B:1457:TYR:CB	2.32	0.43
1:B:2063:LEU:HD22	1:B:2063:LEU:HA	1.77	0.43
1:B:3828:PHE:O	1:B:3829:PHE:C	2.62	0.43
1:B:3835:LEU:C	1:B:3837:GLN:N	2.72	0.43
1:B:3850:GLN:O	1:B:3853:ALA:HB3	2.19	0.43
1:B:4008:SER:CB	1:B:4009:GLN:HA	2.48	0.43
1:B:4180:ARG:N	1:B:4181:ILE:CG1	2.82	0.43
1:B:4183:ILE:N	1:B:4183:ILE:CD1	2.72	0.43
1:B:5031:GLN:C	1:B:5032:TYR:CD1	2.92	0.43
1:C:112:ALA:O	1:C:115:ARG:N	2.52	0.43
1:C:178:ARG:CB	1:C:179:TYR:CB	2.96	0.43
1:C:789:VAL:O	1:C:1627:ALA:HB1	2.18	0.43
1:C:3105:LYS:O	1:C:3109:ASN:N	2.42	0.43
1:C:3668:SER:O	1:C:3671:ASP:N	2.52	0.43
1:C:3721:LEU:O	1:C:3725:TYR:CD1	2.60	0.43
1:C:4195:PHE:CZ	1:C:4991:PHE:CB	2.65	0.43
1:C:4914:VAL:HG23	1:D:4888:TYR:CE2	2.45	0.43
1:D:21:VAL:O	1:D:203:ASN:O	2.36	0.43
1:D:72:SER:HA	1:D:106:ALA:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:178:ARG:CB	1:D:179:TYR:CB	2.96	0.43
1:D:546:TRP:HE3	1:D:547:VAL:CA	2.32	0.43
1:D:3785:ALA:C	1:D:3787:LYS:N	2.74	0.43
1:A:21:VAL:O	1:A:203:ASN:O	2.36	0.43
1:A:112:ALA:CA	1:A:113:HIS:C	2.92	0.43
1:A:1096:THR:CA	1:A:1199:VAL:O	2.67	0.43
1:A:3668:SER:O	1:A:3671:ASP:N	2.52	0.43
1:A:4995:LEU:CD1	1:A:4995:LEU:C	2.85	0.43
1:B:112:ALA:O	1:B:115:ARG:N	2.52	0.43
1:B:347:PHE:CB	1:B:386:ASP:CB	2.97	0.43
1:B:2128:TYR:CD1	1:B:2128:TYR:C	2.97	0.43
1:B:3962:PHE:HE2	1:B:4023:MET:N	2.05	0.43
1:B:4656:LEU:C	1:B:4656:LEU:CD1	2.85	0.43
1:B:4855:ALA:HB2	1:B:4916:PHE:CZ	2.54	0.43
1:C:1124:PHE:CD1	1:C:1125:ASN:O	2.71	0.43
1:C:3850:GLN:O	1:C:3853:ALA:HB3	2.19	0.43
1:C:4183:ILE:CG2	1:C:4190:ILE:CG1	2.90	0.43
1:C:4711:PHE:CD1	1:C:4711:PHE:O	2.71	0.43
1:C:4800:LEU:HD22	1:C:4801:LEU:HD23	1.99	0.43
1:C:4847:VAL:CG1	1:C:4848:VAL:N	2.82	0.43
1:C:4930:ALA:C	1:D:4936:ILE:CD1	2.92	0.43
1:D:791:PHE:CA	1:D:1626:TRP:O	2.67	0.43
1:D:2505:PHE:CE1	1:D:2509:VAL:CB	3.01	0.43
1:D:4034:ASN:O	1:D:4153:HIS:CE1	2.69	0.43
1:D:4180:ARG:N	1:D:4181:ILE:CG1	2.82	0.43
1:D:5003:HIS:O	1:D:5008:SER:CA	2.67	0.43
1:A:72:SER:HA	1:A:106:ALA:N	2.33	0.42
1:A:1821:ASP:C	1:A:1823:GLY:N	2.73	0.42
1:A:2128:TYR:CD1	1:A:2128:TYR:C	2.97	0.42
1:A:2505:PHE:CE1	1:A:2509:VAL:CB	3.01	0.42
1:A:3966:THR:O	1:A:3970:GLN:CB	2.67	0.42
1:A:4036:VAL:O	1:A:4153:HIS:O	2.36	0.42
1:A:4102:GLN:O	1:A:4103:PHE:CD2	2.72	0.42
1:A:4153:HIS:CD2	1:A:4153:HIS:O	2.72	0.42
1:A:4664:LEU:O	1:A:4667:PRO:CD	2.66	0.42
1:A:4855:ALA:HB2	1:A:4916:PHE:CZ	2.54	0.42
1:A:4918:ILE:CA	1:B:4891:VAL:CG1	2.47	0.42
1:B:72:SER:CA	1:B:106:ALA:H	2.32	0.42
1:B:1588:ALA:HB1	1:B:1589:PRO:C	2.44	0.42
1:B:3699:HIS:O	1:B:3701:LEU:N	2.51	0.42
1:B:3935:TRP:CE3	1:B:3935:TRP:CA	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4659:ILE:HD12	1:B:4659:ILE:HA	1.87	0.42
1:B:4982:GLU:CB	1:B:4983:HIS:CA	2.97	0.42
1:C:347:PHE:CB	1:C:386:ASP:CB	2.97	0.42
1:C:1588:ALA:HB1	1:C:1589:PRO:C	2.44	0.42
1:D:2509:VAL:O	1:D:2510:TYR:CG	2.71	0.42
1:D:4850:LEU:HD23	1:D:4851:TYR:N	2.34	0.42
1:D:4920:PHE:CZ	1:D:4924:VAL:HG21	2.54	0.42
1:A:2274:ASP:CA	1:A:2277:ALA:CB	2.97	0.42
1:A:2591:ARG:HA	1:A:2592:GLY:HA3	1.58	0.42
1:A:3933:PHE:CE1	1:A:3951:PHE:HE2	2.34	0.42
1:A:4681:LEU:HA	1:A:4681:LEU:HD23	1.76	0.42
1:B:227:MET:C	1:B:229:GLU:N	2.77	0.42
1:B:238:SER:O	1:B:241:GLN:N	2.52	0.42
1:B:1083:VAL:O	1:B:1187:GLY:HA3	2.18	0.42
1:B:1803:PRO:O	1:B:1806:ALA:CA	2.67	0.42
1:B:2274:ASP:CA	1:B:2277:ALA:CB	2.97	0.42
1:B:2777:TYR:N	1:B:2854:GLY:HA2	2.31	0.42
1:B:4920:PHE:CZ	1:B:4924:VAL:HG21	2.54	0.42
1:B:4975:PHE:CE1	1:B:4979:THR:HG21	2.54	0.42
1:C:119:SER:N	1:C:137:LEU:HA	2.33	0.42
1:C:2128:TYR:CD1	1:C:2128:TYR:C	2.97	0.42
1:C:2556:LEU:O	1:C:2560:PRO:N	2.52	0.42
1:C:4008:SER:CB	1:C:4009:GLN:HA	2.48	0.42
1:C:4701:TRP:C	1:C:4701:TRP:CD1	2.95	0.42
1:D:111:HIS:CA	1:D:113:HIS:O	2.66	0.42
1:D:238:SER:O	1:D:241:GLN:N	2.52	0.42
1:D:726:VAL:O	1:D:727:ALA:O	2.38	0.42
1:D:1164:LEU:C	1:D:1167:GLU:O	2.61	0.42
1:D:4036:VAL:O	1:D:4153:HIS:O	2.36	0.42
1:D:4178:LEU:HD12	1:D:4179:GLY:N	2.33	0.42
1:D:4718:LYS:O	1:D:4721:LYS:N	2.52	0.42
1:A:2592:GLY:N	1:A:2595:LEU:H	1.95	0.42
1:A:4181:ILE:HD11	1:A:4194:TYR:C	2.44	0.42
1:A:4834:GLY:CA	1:A:4837:LEU:H	2.31	0.42
1:B:500:ALA:C	1:B:502:HIS:H	2.26	0.42
1:B:1108:GLU:O	1:B:1109:LEU:C	2.63	0.42
1:B:2531:ARG:O	1:B:2533:ALA:N	2.51	0.42
1:B:4141:PHE:CZ	1:B:4196:GLU:HA	2.49	0.42
1:B:4153:HIS:CD2	1:B:4153:HIS:O	2.72	0.42
1:B:4190:ILE:O	1:B:4190:ILE:HG23	2.18	0.42
1:B:4794:TRP:O	1:B:4797:VAL:HG12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4935:LEU:CD2	1:B:4935:LEU:N	2.78	0.42
1:C:227:MET:C	1:C:229:GLU:N	2.77	0.42
1:C:2766:TRP:O	1:C:2770:LYS:N	2.39	0.42
1:C:3087:ILE:O	1:C:3090:ALA:HB3	2.18	0.42
1:C:3827:GLY:O	1:C:3830:GLN:N	2.51	0.42
1:C:4562:LEU:CB	1:C:4657:CYS:CB	2.96	0.42
1:C:4975:PHE:CE1	1:C:4979:THR:HG21	2.54	0.42
1:C:5018:CYS:O	1:C:5018:CYS:SG	2.76	0.42
1:D:112:ALA:CA	1:D:113:HIS:C	2.92	0.42
1:D:500:ALA:C	1:D:502:HIS:H	2.26	0.42
1:D:1096:THR:CA	1:D:1199:VAL:O	2.67	0.42
1:D:1108:GLU:O	1:D:1109:LEU:C	2.63	0.42
1:D:1612:PHE:O	1:D:1613:LEU:CB	2.68	0.42
1:D:2274:ASP:CA	1:D:2277:ALA:CB	2.97	0.42
1:D:3942:VAL:CB	1:D:3943:ILE:CA	2.89	0.42
1:D:4153:HIS:CD2	1:D:4153:HIS:O	2.72	0.42
1:D:4664:LEU:C	1:D:4664:LEU:CD1	2.85	0.42
1:D:4701:TRP:O	1:D:4701:TRP:CD1	2.70	0.42
1:D:4715:TYR:CD1	1:D:4716:TRP:N	2.87	0.42
1:D:4857:ASN:HD22	1:D:4857:ASN:HA	1.64	0.42
1:A:72:SER:CB	1:A:106:ALA:O	2.66	0.42
1:A:232:THR:CB	1:A:248:GLU:CB	2.96	0.42
1:A:789:VAL:O	1:A:1627:ALA:HB1	2.18	0.42
1:A:1612:PHE:O	1:A:1613:LEU:CB	2.68	0.42
1:A:1717:SER:C	1:A:1720:LEU:CB	2.92	0.42
1:A:1815:LEU:O	1:A:1818:ALA:HB3	2.18	0.42
1:A:2464:ASP:N	1:A:2467:VAL:H	2.08	0.42
1:A:4141:PHE:HZ	1:A:4196:GLU:HA	1.80	0.42
1:A:4235:VAL:O	1:A:4238:CYS:SG	2.78	0.42
1:A:4652:LEU:O	1:A:4652:LEU:HD22	2.19	0.42
1:A:4847:VAL:CG1	1:A:4848:VAL:N	2.82	0.42
1:B:119:SER:N	1:B:137:LEU:HA	2.33	0.42
1:B:1684:ALA:O	1:B:1687:SER:O	2.38	0.42
1:B:2201:LEU:O	1:B:2205:GLU:CB	2.68	0.42
1:B:3186:LEU:O	1:B:3190:LEU:CB	2.68	0.42
1:B:3658:LYS:O	1:B:3662:ILE:CB	2.67	0.42
1:B:3766:GLN:CA	1:B:3769:ARG:NH2	2.81	0.42
1:B:4181:ILE:CG2	1:B:4182:GLU:N	2.67	0.42
1:B:4682:GLU:HA	1:B:4724:VAL:HG13	2.01	0.42
1:B:4715:TYR:CD1	1:B:4715:TYR:C	2.97	0.42
1:B:4715:TYR:CD1	1:B:4716:TRP:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4783:ILE:C	1:B:4789:PHE:CE2	2.97	0.42
1:C:669:ASP:CB	1:C:788:LYS:C	2.92	0.42
1:C:3766:GLN:CA	1:C:3769:ARG:NH2	2.81	0.42
1:C:3966:THR:O	1:C:3970:GLN:CB	2.67	0.42
1:C:4153:HIS:CD2	1:C:4153:HIS:O	2.72	0.42
1:C:4715:TYR:CD1	1:C:4715:TYR:C	2.97	0.42
1:C:4783:ILE:C	1:C:4789:PHE:CE2	2.97	0.42
1:C:4850:LEU:HD23	1:C:4851:TYR:N	2.34	0.42
1:C:5003:HIS:O	1:C:5008:SER:CA	2.67	0.42
1:D:669:ASP:CB	1:D:788:LYS:C	2.92	0.42
1:D:2556:LEU:O	1:D:2560:PRO:N	2.52	0.42
1:D:3850:GLN:O	1:D:3853:ALA:HB3	2.19	0.42
1:D:4181:ILE:HD11	1:D:4194:TYR:C	2.44	0.42
1:A:110:ARG:CB	1:A:117:TYR:HE1	2.33	0.42
1:A:487:VAL:C	1:A:489:ASN:N	2.76	0.42
1:A:2063:LEU:HD22	1:A:2063:LEU:HA	1.77	0.42
1:A:4732:PHE:C	1:A:4733:GLY:O	2.62	0.42
1:B:512:ALA:O	1:B:515:TRP:CE3	2.70	0.42
1:B:2145:SER:C	1:B:2147:SER:N	2.76	0.42
1:B:4058:ILE:O	1:B:4062:PHE:HD1	2.01	0.42
1:B:4718:LYS:O	1:B:4721:LYS:N	2.52	0.42
1:C:72:SER:CA	1:C:106:ALA:H	2.32	0.42
1:C:791:PHE:CA	1:C:1626:TRP:O	2.67	0.42
1:C:1072:VAL:HA	1:C:1195:GLY:HA2	2.01	0.42
1:C:2446:GLY:HA2	1:C:2447:LYS:HA	1.85	0.42
1:C:3167:ARG:C	1:C:3169:LEU:N	2.77	0.42
1:C:3186:LEU:O	1:C:3190:LEU:CB	2.68	0.42
1:C:4652:LEU:O	1:C:4652:LEU:HD22	2.19	0.42
1:C:4918:ILE:CG1	1:D:4891:VAL:HG22	2.29	0.42
1:C:4982:GLU:CB	1:C:4983:HIS:CA	2.97	0.42
1:D:1588:ALA:CB	1:D:1589:PRO:CA	2.84	0.42
1:D:3966:THR:O	1:D:3970:GLN:CB	2.67	0.42
1:D:4007:SER:HA	1:D:4009:GLN:CB	2.50	0.42
1:D:4235:VAL:O	1:D:4238:CYS:SG	2.78	0.42
1:D:4852:THR:HG21	1:D:4882:CYS:C	2.44	0.42
1:A:71:GLN:O	1:A:106:ALA:C	2.57	0.42
1:A:73:LEU:H	1:A:105:HIS:CB	2.32	0.42
1:A:220:LEU:CB	1:A:392:ARG:N	2.76	0.42
1:A:2556:LEU:O	1:A:2560:PRO:N	2.52	0.42
1:A:3850:GLN:O	1:A:3853:ALA:HB3	2.19	0.42
1:A:4190:ILE:O	1:A:4190:ILE:HG23	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4195:PHE:C	1:A:4195:PHE:CD1	2.97	0.42
1:A:4576:ILE:O	1:A:4579:PHE:HB3	2.19	0.42
1:A:4729:GLY:N	1:A:4730:ASP:O	2.51	0.42
1:B:110:ARG:CB	1:B:117:TYR:HE1	2.33	0.42
1:B:483:MET:O	1:B:486:LEU:CB	2.68	0.42
1:B:1123:VAL:O	1:B:1131:ARG:C	2.58	0.42
1:B:2173:GLN:O	1:B:2176:ASN:N	2.53	0.42
1:B:4128:PHE:O	1:B:4131:ARG:C	2.63	0.42
1:B:4178:LEU:HD12	1:B:4179:GLY:N	2.33	0.42
1:B:4235:VAL:O	1:B:4238:CYS:SG	2.78	0.42
1:B:4562:LEU:CB	1:B:4657:CYS:CB	2.96	0.42
1:B:4701:TRP:O	1:B:4701:TRP:CD1	2.70	0.42
1:C:379:HIS:N	1:C:381:GLU:N	2.66	0.42
1:C:487:VAL:C	1:C:489:ASN:N	2.76	0.42
1:C:499:THR:N	1:C:500:ALA:CA	2.72	0.42
1:C:989:ALA:O	1:C:993:HIS:CB	2.67	0.42
1:C:1684:ALA:O	1:C:1687:SER:O	2.38	0.42
1:C:4681:LEU:HD23	1:C:4681:LEU:HA	1.76	0.42
1:C:4715:TYR:CD1	1:C:4716:TRP:N	2.87	0.42
1:C:4852:THR:HG21	1:C:4882:CYS:C	2.44	0.42
1:D:112:ALA:O	1:D:115:ARG:N	2.52	0.42
1:D:347:PHE:CB	1:D:386:ASP:CB	2.97	0.42
1:D:2646:ASN:CB	1:D:2699:ALA:HB1	2.48	0.42
1:D:4715:TYR:CD1	1:D:4715:TYR:C	2.97	0.42
1:D:4800:LEU:HD22	1:D:4801:LEU:HD23	1.99	0.42
1:A:39:ALA:CB	1:A:47:CYS:CA	2.98	0.42
1:A:72:SER:HA	1:A:106:ALA:CA	2.50	0.42
1:A:73:LEU:H	1:A:106:ALA:N	2.15	0.42
1:A:4829:SER:CB	1:A:4940:PHE:HE1	2.31	0.42
1:A:4943:LEU:C	1:A:4943:LEU:CD1	2.85	0.42
1:B:72:SER:HA	1:B:106:ALA:CA	2.50	0.42
1:B:121:LEU:O	1:B:133:PHE:CB	2.68	0.42
1:B:129:ASP:O	1:B:130:LYS:CB	2.68	0.42
1:B:1736:VAL:O	1:B:2144:ILE:N	2.51	0.42
1:B:3937:TYR:C	1:B:3939:GLY:N	2.78	0.42
1:B:4664:LEU:C	1:B:4664:LEU:CD1	2.85	0.42
1:B:4996:ILE:HD13	1:B:4996:ILE:HA	1.81	0.42
1:C:238:SER:O	1:C:241:GLN:N	2.52	0.42
1:C:1166:GLY:N	1:C:1167:GLU:CB	2.83	0.42
1:C:1638:ALA:HB2	1:C:1649:ASP:CA	2.50	0.42
1:C:1717:SER:C	1:C:1720:LEU:CB	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2173:GLN:O	1:C:2176:ASN:N	2.53	0.42
1:C:2274:ASP:CA	1:C:2277:ALA:CB	2.97	0.42
1:C:3933:PHE:CE1	1:C:3951:PHE:HE2	2.34	0.42
1:C:4235:VAL:O	1:C:4238:CYS:SG	2.78	0.42
1:C:4834:GLY:CA	1:C:4837:LEU:H	2.31	0.42
1:D:38:ALA:CB	1:D:64:ILE:C	2.73	0.42
1:D:72:SER:CA	1:D:106:ALA:H	2.32	0.42
1:D:1086:GLY:H	1:D:1155:LEU:CB	2.29	0.42
1:D:1684:ALA:O	1:D:1687:SER:O	2.38	0.42
1:D:2149:VAL:O	1:D:2152:THR:N	2.53	0.42
1:D:2591:ARG:HA	1:D:2592:GLY:HA3	1.58	0.42
1:D:3721:LEU:O	1:D:3725:TYR:CD1	2.60	0.42
1:D:4933:GLN:O	1:D:4937:ILE:HG12	2.20	0.42
1:D:5031:GLN:C	1:D:5032:TYR:CD1	2.92	0.42
1:A:1083:VAL:O	1:A:1187:GLY:HA3	2.18	0.42
1:A:3894:GLY:O	1:A:3895:HIS:HB2	2.20	0.42
1:A:4195:PHE:O	1:A:4195:PHE:CD1	2.70	0.42
1:A:5003:HIS:O	1:A:5008:SER:CA	2.67	0.42
1:B:112:ALA:CA	1:B:113:HIS:C	2.92	0.42
1:B:543:ASN:O	1:B:546:TRP:HB3	2.19	0.42
1:B:1072:VAL:HA	1:B:1195:GLY:HA2	2.01	0.42
1:B:3105:LYS:O	1:B:3109:ASN:N	2.42	0.42
1:B:4687:TYR:N	1:B:4692:PRO:CD	2.61	0.42
1:B:4852:THR:HG21	1:B:4882:CYS:C	2.44	0.42
1:B:4995:LEU:HD13	1:B:5011:TRP:CZ3	2.41	0.42
1:B:5003:HIS:O	1:B:5008:SER:CA	2.67	0.42
1:C:500:ALA:C	1:C:502:HIS:H	2.26	0.42
1:C:669:ASP:N	1:C:788:LYS:O	2.49	0.42
1:C:3934:TYR:CZ	1:C:3998:HIS:CB	2.96	0.42
1:C:4058:ILE:O	1:C:4062:PHE:HD1	2.01	0.42
1:C:4918:ILE:CA	1:D:4891:VAL:CG1	2.46	0.42
1:D:500:ALA:C	1:D:502:HIS:N	2.74	0.42
1:D:3984:ARG:C	1:D:3984:ARG:CD	2.85	0.42
1:D:4125:PHE:C	1:D:4127:GLU:N	2.77	0.42
1:D:4128:PHE:O	1:D:4131:ARG:C	2.63	0.42
1:D:4181:ILE:HG12	1:D:4194:TYR:CD1	2.55	0.42
1:D:4738:ALA:CA	1:D:4742:GLY:HA2	2.36	0.42
1:A:121:LEU:O	1:A:133:PHE:CB	2.68	0.42
1:A:499:THR:N	1:A:500:ALA:CA	2.72	0.42
1:A:1161:ILE:HA	1:A:1178:ALA:HB1	1.84	0.42
1:A:1212:ARG:CB	1:A:1213:PHE:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1588:ALA:HB1	1:A:1589:PRO:C	2.44	0.42
1:A:4007:SER:HA	1:A:4009:GLN:CB	2.50	0.42
1:A:4181:ILE:HG12	1:A:4194:TYR:CD1	2.55	0.42
1:A:4181:ILE:CG2	1:A:4182:GLU:N	2.67	0.42
1:A:4718:LYS:O	1:A:4721:LYS:N	2.52	0.42
1:A:4732:PHE:O	1:A:4733:GLY:O	2.38	0.42
1:B:220:LEU:CB	1:B:392:ARG:N	2.76	0.42
1:B:2556:LEU:O	1:B:2560:PRO:N	2.52	0.42
1:B:3894:GLY:O	1:B:3895:HIS:HB2	2.20	0.42
1:B:3966:THR:O	1:B:3970:GLN:CB	2.67	0.42
1:B:4576:ILE:O	1:B:4579:PHE:HB3	2.19	0.42
1:C:72:SER:HA	1:C:106:ALA:N	2.33	0.42
1:C:110:ARG:CB	1:C:117:TYR:HE1	2.33	0.42
1:C:261:ARG:O	1:C:262:LEU:CB	2.68	0.42
1:C:1454:THR:H	1:C:1457:TYR:CB	2.32	0.42
1:C:4682:GLU:HA	1:C:4724:VAL:HG13	2.01	0.42
1:D:989:ALA:O	1:D:993:HIS:CB	2.67	0.42
1:D:1237:TRP:CA	1:D:1611:HIS:CB	2.87	0.42
1:D:1638:ALA:HB2	1:D:1649:ASP:CA	2.50	0.42
1:D:4652:LEU:O	1:D:4652:LEU:HD22	2.19	0.42
1:D:5018:CYS:O	1:D:5018:CYS:SG	2.76	0.42
1:D:5023:PRO:O	1:D:5024:ALA:CB	2.68	0.42
1:A:72:SER:CA	1:A:106:ALA:H	2.32	0.42
1:A:1164:LEU:O	1:A:1167:GLU:C	2.61	0.42
1:A:1166:GLY:N	1:A:1167:GLU:CB	2.83	0.42
1:A:1721:GLU:C	1:A:1723:ALA:N	2.78	0.42
1:A:3061:ALA:C	1:A:3064:VAL:N	2.74	0.42
1:A:4888:TYR:CE2	1:D:4914:VAL:HG23	2.46	0.42
1:A:4985:LEU:O	1:A:4986:ALA:C	2.62	0.42
1:A:5018:CYS:O	1:A:5018:CYS:SG	2.76	0.42
1:B:1213:PHE:C	1:B:1215:ALA:H	2.25	0.42
1:B:1717:SER:C	1:B:1720:LEU:CB	2.92	0.42
1:B:4034:ASN:O	1:B:4153:HIS:CE1	2.69	0.42
1:B:4181:ILE:HG12	1:B:4194:TYR:CD1	2.55	0.42
1:B:4652:LEU:O	1:B:4652:LEU:HD22	2.19	0.42
1:C:512:ALA:O	1:C:515:TRP:CE3	2.70	0.42
1:C:543:ASN:O	1:C:546:TRP:HB3	2.19	0.42
1:C:546:TRP:HE3	1:C:547:VAL:CA	2.32	0.42
1:C:1612:PHE:O	1:C:1613:LEU:CB	2.68	0.42
1:C:4128:PHE:O	1:C:4131:ARG:C	2.63	0.42
1:C:4576:ILE:O	1:C:4579:PHE:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4718:LYS:O	1:C:4721:LYS:N	2.52	0.42
1:C:5031:GLN:C	1:C:5032:TYR:CD1	2.92	0.42
1:D:227:MET:C	1:D:229:GLU:N	2.77	0.42
1:D:1166:GLY:N	1:D:1167:GLU:CB	2.83	0.42
1:D:2128:TYR:CD1	1:D:2128:TYR:C	2.97	0.42
1:D:2191:PHE:CE1	1:D:2192:TYR:CE1	3.08	0.42
1:D:3894:GLY:O	1:D:3895:HIS:HB2	2.20	0.42
1:D:3937:TYR:C	1:D:3939:GLY:N	2.78	0.42
1:D:4179:GLY:HA2	1:D:4180:ARG:HB3	2.02	0.42
1:D:4957:LYS:HA	1:D:4964:GLY:C	2.45	0.42
1:A:112:ALA:O	1:A:115:ARG:N	2.52	0.41
1:A:483:MET:O	1:A:486:LEU:CB	2.68	0.41
1:A:1124:PHE:CE2	1:A:1162:PHE:CD2	3.04	0.41
1:A:1454:THR:H	1:A:1457:TYR:CB	2.32	0.41
1:A:4715:TYR:CD1	1:A:4716:TRP:N	2.87	0.41
1:B:73:LEU:H	1:B:105:HIS:CB	2.33	0.41
1:B:488:LEU:C	1:B:491:ILE:CB	2.93	0.41
1:B:726:VAL:O	1:B:727:ALA:O	2.38	0.41
1:B:1166:GLY:N	1:B:1167:GLU:CB	2.83	0.41
1:B:1252:HIS:O	1:B:1254:HIS:CB	2.68	0.41
1:B:1721:GLU:C	1:B:1723:ALA:N	2.78	0.41
1:B:4181:ILE:HD11	1:B:4194:TYR:C	2.44	0.41
1:B:4642:ALA:O	1:B:4645:CYS:SG	2.78	0.41
1:B:4705:VAL:O	1:B:4706:LEU:C	2.63	0.41
1:B:4732:PHE:O	1:B:4733:GLY:O	2.38	0.41
1:B:4957:LYS:HA	1:B:4964:GLY:C	2.45	0.41
1:C:72:SER:HA	1:C:106:ALA:CA	2.50	0.41
1:C:112:ALA:CA	1:C:113:HIS:C	2.92	0.41
1:C:218:HIS:CB	1:C:219:VAL:HA	2.49	0.41
1:C:235:ALA:O	1:C:236:ALA:HB3	2.20	0.41
1:C:483:MET:O	1:C:486:LEU:CB	2.68	0.41
1:C:1721:GLU:C	1:C:1723:ALA:N	2.78	0.41
1:C:2191:PHE:CE1	1:C:2192:TYR:CE1	3.08	0.41
1:C:2240:CYS:C	1:C:2242:ILE:N	2.76	0.41
1:C:4732:PHE:O	1:C:4733:GLY:O	2.38	0.41
1:C:4936:ILE:CG2	1:C:4937:ILE:H	2.33	0.41
1:D:16:THR:O	1:D:17:ASP:CB	2.64	0.41
1:D:73:LEU:H	1:D:106:ALA:N	2.15	0.41
1:D:235:ALA:O	1:D:236:ALA:HB3	2.20	0.41
1:D:1454:THR:H	1:D:1457:TYR:CB	2.32	0.41
1:D:3766:GLN:CA	1:D:3769:ARG:NH2	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3828:PHE:O	1:D:3829:PHE:C	2.62	0.41
1:D:4124:ASN:O	1:D:4125:PHE:CD1	2.73	0.41
1:D:4934:GLY:O	1:D:4938:ASP:N	2.30	0.41
1:A:110:ARG:CB	1:A:117:TYR:CE1	3.03	0.41
1:A:227:MET:C	1:A:229:GLU:N	2.77	0.41
1:A:789:VAL:N	1:A:1628:VAL:O	2.46	0.41
1:A:1124:PHE:CD1	1:A:1125:ASN:O	2.71	0.41
1:A:1638:ALA:HB2	1:A:1649:ASP:H	1.83	0.41
1:A:2201:LEU:O	1:A:2205:GLU:CB	2.68	0.41
1:A:4124:ASN:O	1:A:4125:PHE:CD1	2.73	0.41
1:A:4705:VAL:O	1:A:4706:LEU:C	2.63	0.41
1:B:218:HIS:CB	1:B:219:VAL:HA	2.49	0.41
1:B:351:VAL:O	1:B:352:ALA:CB	2.68	0.41
1:B:839:LEU:O	1:B:1199:VAL:CA	2.61	0.41
1:B:2149:VAL:O	1:B:2152:THR:N	2.53	0.41
1:B:3167:ARG:C	1:B:3169:LEU:N	2.77	0.41
1:B:3785:ALA:C	1:B:3787:LYS:N	2.74	0.41
1:B:5031:GLN:CG	1:B:5032:TYR:CE1	3.00	0.41
1:C:488:LEU:C	1:C:491:ILE:CB	2.93	0.41
1:C:623:GLU:O	1:C:627:PRO:N	2.53	0.41
1:C:1252:HIS:O	1:C:1254:HIS:CB	2.68	0.41
1:C:4195:PHE:C	1:C:4195:PHE:CD1	2.97	0.41
1:C:4577:LEU:HD23	1:C:4577:LEU:C	2.45	0.41
1:C:4732:PHE:C	1:C:4733:GLY:O	2.62	0.41
1:C:4920:PHE:CZ	1:C:4924:VAL:HG21	2.54	0.41
1:D:218:HIS:CB	1:D:219:VAL:HA	2.49	0.41
1:D:1072:VAL:HA	1:D:1195:GLY:HA2	2.01	0.41
1:D:1717:SER:C	1:D:1720:LEU:CB	2.92	0.41
1:D:2201:LEU:O	1:D:2205:GLU:CB	2.68	0.41
1:D:2766:TRP:O	1:D:2770:LYS:N	2.39	0.41
1:D:3933:PHE:CE1	1:D:3951:PHE:HE2	2.34	0.41
1:D:4034:ASN:C	1:D:4153:HIS:CE1	2.98	0.41
1:D:4576:ILE:O	1:D:4579:PHE:HB3	2.19	0.41
1:D:4642:ALA:O	1:D:4645:CYS:SG	2.78	0.41
1:D:4849:TYR:HE1	1:D:4853:VAL:HG21	1.85	0.41
1:A:235:ALA:O	1:A:236:ALA:HB3	2.20	0.41
1:A:726:VAL:O	1:A:727:ALA:O	2.38	0.41
1:A:1072:VAL:HA	1:A:1195:GLY:HA2	2.01	0.41
1:A:1684:ALA:O	1:A:1687:SER:O	2.38	0.41
1:A:4090:LYS:CB	1:A:4121:GLU:CB	2.98	0.41
1:A:4125:PHE:C	1:A:4127:GLU:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4128:PHE:O	1:A:4131:ARG:C	2.63	0.41
1:A:4183:ILE:CG2	1:A:4190:ILE:CG1	2.90	0.41
1:A:4800:LEU:HD23	1:A:4801:LEU:CA	2.50	0.41
1:A:4936:ILE:CG2	1:A:4937:ILE:H	2.33	0.41
1:B:608:VAL:CA	1:B:613:ALA:CB	2.85	0.41
1:B:1164:LEU:O	1:B:1167:GLU:C	2.61	0.41
1:B:5023:PRO:O	1:B:5024:ALA:CB	2.68	0.41
1:C:2201:LEU:O	1:C:2205:GLU:CB	2.68	0.41
1:C:4124:ASN:O	1:C:4125:PHE:CD1	2.73	0.41
1:D:1074:ILE:HA	1:D:1193:SER:CB	2.50	0.41
1:D:3186:LEU:O	1:D:3190:LEU:CB	2.68	0.41
1:D:4090:LYS:CB	1:D:4121:GLU:CB	2.98	0.41
1:D:4646:LEU:HD23	1:D:4646:LEU:HA	1.88	0.41
1:D:4732:PHE:O	1:D:4733:GLY:O	2.38	0.41
1:D:4834:GLY:CA	1:D:4837:LEU:H	2.31	0.41
1:D:4860:ARG:O	1:D:4861:LYS:CB	2.68	0.41
1:D:4861:LYS:O	1:D:4862:PHE:CB	2.69	0.41
1:A:304:ALA:O	1:A:308:HIS:CB	2.69	0.41
1:A:2191:PHE:CE1	1:A:2192:TYR:CE1	3.08	0.41
1:A:3839:CYS:CB	1:A:3922:TYR:HE2	2.34	0.41
1:A:4180:ARG:N	1:A:4181:ILE:CG1	2.82	0.41
1:A:4849:TYR:HE1	1:A:4853:VAL:HG21	1.85	0.41
1:B:623:GLU:O	1:B:627:PRO:N	2.53	0.41
1:B:1638:ALA:HB2	1:B:1649:ASP:CA	2.50	0.41
1:B:3795:SER:HA	1:B:3880:PHE:CE2	2.54	0.41
1:B:4007:SER:HA	1:B:4009:GLN:CB	2.50	0.41
1:B:4779:LYS:HE3	1:B:4779:LYS:HB2	1.96	0.41
1:B:4857:ASN:HD22	1:B:4857:ASN:HA	1.64	0.41
1:B:4935:LEU:HD22	1:C:4940:PHE:CZ	2.43	0.41
1:C:73:LEU:H	1:C:105:HIS:CB	2.32	0.41
1:C:378:LEU:C	1:C:380:GLN:HA	2.45	0.41
1:C:726:VAL:O	1:C:727:ALA:O	2.38	0.41
1:C:2125:HIS:HB2	1:C:3725:TYR:CE1	2.55	0.41
1:C:2777:TYR:H	1:C:2854:GLY:CA	2.32	0.41
1:C:4007:SER:HA	1:C:4009:GLN:CB	2.50	0.41
1:C:4179:GLY:HA2	1:C:4180:ARG:HB3	2.02	0.41
1:C:4180:ARG:N	1:C:4181:ILE:CG1	2.82	0.41
1:C:4738:ALA:CA	1:C:4742:GLY:HA2	2.36	0.41
1:C:4849:TYR:HE1	1:C:4853:VAL:HG21	1.85	0.41
1:C:5023:PRO:O	1:C:5024:ALA:CB	2.68	0.41
1:D:110:ARG:CB	1:D:117:TYR:HE1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1588:ALA:HB1	1:D:1589:PRO:C	2.44	0.41
1:D:4783:ILE:C	1:D:4789:PHE:CE2	2.97	0.41
1:A:218:HIS:CB	1:A:219:VAL:HA	2.49	0.41
1:A:1736:VAL:O	1:A:2144:ILE:N	2.51	0.41
1:A:2173:GLN:O	1:A:2176:ASN:N	2.53	0.41
1:A:3186:LEU:O	1:A:3190:LEU:CB	2.68	0.41
1:A:3808:GLY:O	1:A:3809:ASN:CB	2.69	0.41
1:A:3894:GLY:C	1:A:3895:HIS:HD2	2.28	0.41
1:A:3937:TYR:C	1:A:3939:GLY:N	2.78	0.41
1:A:4642:ALA:O	1:A:4645:CYS:SG	2.78	0.41
1:A:4850:LEU:HD23	1:A:4851:TYR:N	2.34	0.41
1:A:4947:GLN:CD	1:A:4947:GLN:C	2.89	0.41
1:B:3808:GLY:O	1:B:3809:ASN:CB	2.69	0.41
1:B:4124:ASN:O	1:B:4125:PHE:CD1	2.73	0.41
1:B:4577:LEU:HD11	1:B:4807:PHE:N	2.35	0.41
1:B:4646:LEU:HD23	1:B:4646:LEU:HA	1.88	0.41
1:B:4783:ILE:CD1	1:B:4783:ILE:C	2.85	0.41
1:B:4926:VAL:HG13	1:B:4927:ILE:H	1.84	0.41
1:C:1164:LEU:C	1:C:1167:GLU:O	2.61	0.41
1:C:1211:LEU:O	1:C:1214:PHE:CB	2.69	0.41
1:C:3059:THR:O	1:C:3062:PRO:C	2.64	0.41
1:C:3795:SER:HA	1:C:3880:PHE:CE2	2.54	0.41
1:C:4003:LEU:HA	1:C:4004:ALA:HA	1.68	0.41
1:C:4806:ASN:N	1:C:4806:ASN:ND2	2.60	0.41
1:C:4861:LYS:O	1:C:4862:PHE:CD1	2.70	0.41
1:C:4927:ILE:C	1:C:4927:ILE:CD1	2.85	0.41
1:C:5031:GLN:CG	1:C:5032:TYR:CE1	2.99	0.41
1:D:121:LEU:O	1:D:133:PHE:CB	2.68	0.41
1:D:483:MET:O	1:D:486:LEU:CB	2.68	0.41
1:D:1684:ALA:O	1:D:1687:SER:CB	2.69	0.41
1:D:4195:PHE:C	1:D:4195:PHE:CD1	2.97	0.41
1:A:15:ARG:O	1:A:16:THR:CB	2.68	0.41
1:A:129:ASP:O	1:A:130:LYS:CB	2.68	0.41
1:A:238:SER:O	1:A:241:GLN:N	2.52	0.41
1:A:378:LEU:C	1:A:380:GLN:HA	2.45	0.41
1:A:488:LEU:C	1:A:491:ILE:CB	2.93	0.41
1:A:1160:ILE:C	1:A:1178:ALA:HB1	2.45	0.41
1:A:1252:HIS:O	1:A:1254:HIS:CB	2.68	0.41
1:A:2149:VAL:O	1:A:2152:THR:N	2.53	0.41
1:A:2452:ARG:CB	1:A:2453:ILE:CB	2.99	0.41
1:A:2656:CYS:O	1:A:2657:LEU:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4208:PRO:HG2	1:A:4209:GLN:N	2.34	0.41
1:A:4208:PRO:CG	1:A:4209:GLN:N	2.81	0.41
1:A:4946:GLN:O	1:A:4949:GLN:HB3	2.20	0.41
1:A:5023:PRO:O	1:A:5024:ALA:CB	2.68	0.41
1:B:261:ARG:O	1:B:262:LEU:CB	2.68	0.41
1:B:345:LEU:O	1:B:346:CYS:CB	2.69	0.41
1:B:487:VAL:C	1:B:489:ASN:N	2.76	0.41
1:B:1096:THR:CA	1:B:1199:VAL:O	2.67	0.41
1:B:1187:GLY:O	1:B:1188:PHE:CB	2.69	0.41
1:B:1831:GLY:C	1:B:1833:SER:H	2.25	0.41
1:B:3059:THR:O	1:B:3062:PRO:C	2.64	0.41
1:C:15:ARG:O	1:C:16:THR:CB	2.68	0.41
1:C:2149:VAL:O	1:C:2152:THR:N	2.53	0.41
1:C:3808:GLY:O	1:C:3809:ASN:CB	2.69	0.41
1:C:4577:LEU:HD11	1:C:4807:PHE:N	2.36	0.41
1:C:4642:ALA:O	1:C:4645:CYS:SG	2.78	0.41
1:C:4685:GLY:O	1:C:4689:THR:CB	2.68	0.41
1:C:5031:GLN:NE2	1:C:5031:GLN:C	2.75	0.41
1:D:72:SER:HA	1:D:106:ALA:CA	2.50	0.41
1:D:73:LEU:H	1:D:105:HIS:CB	2.32	0.41
1:D:304:ALA:O	1:D:308:HIS:CB	2.69	0.41
1:D:503:PHE:O	1:D:504:ALA:CB	2.69	0.41
1:D:1721:GLU:C	1:D:1723:ALA:N	2.78	0.41
1:D:2145:SER:C	1:D:2147:SER:N	2.76	0.41
1:D:4577:LEU:HD11	1:D:4807:PHE:N	2.36	0.41
1:D:4656:LEU:C	1:D:4656:LEU:CD1	2.85	0.41
1:D:4705:VAL:O	1:D:4706:LEU:C	2.63	0.41
1:A:3766:GLN:CA	1:A:3769:ARG:NH2	2.82	0.41
1:A:4577:LEU:HD11	1:A:4807:PHE:N	2.36	0.41
1:A:4716:TRP:O	1:A:4716:TRP:CE3	2.70	0.41
1:B:235:ALA:O	1:B:236:ALA:HB3	2.20	0.41
1:B:438:ILE:CA	1:B:439:GLU:CB	2.99	0.41
1:B:1164:LEU:C	1:B:1167:GLU:O	2.61	0.41
1:B:4800:LEU:HD23	1:B:4801:LEU:CA	2.50	0.41
1:B:4985:LEU:N	1:B:4985:LEU:CD1	2.73	0.41
1:C:110:ARG:CB	1:C:117:TYR:CE1	3.04	0.41
1:C:121:LEU:O	1:C:133:PHE:CB	2.68	0.41
1:C:357:LEU:O	1:C:358:THR:CB	2.69	0.41
1:C:1213:PHE:CB	1:C:1215:ALA:N	2.84	0.41
1:C:2538:THR:C	1:C:2540:THR:H	2.23	0.41
1:C:3987:ASP:CA	1:C:3988:ALA:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4181:ILE:HG12	1:C:4194:TYR:CD1	2.55	0.41
1:C:4948:GLU:OE1	1:C:4949:GLN:N	2.54	0.41
1:C:4954:MET:SD	1:C:4954:MET:O	2.79	0.41
1:D:129:ASP:O	1:D:130:LYS:CB	2.68	0.41
1:D:261:ARG:O	1:D:262:LEU:CB	2.68	0.41
1:D:1187:GLY:O	1:D:1188:PHE:CB	2.69	0.41
1:D:1211:LEU:O	1:D:1214:PHE:CB	2.69	0.41
1:D:3059:THR:O	1:D:3062:PRO:C	2.64	0.41
1:A:121:LEU:O	1:A:133:PHE:HB2	2.21	0.41
1:A:789:VAL:O	1:A:1627:ALA:CB	2.69	0.41
1:A:1074:ILE:HA	1:A:1193:SER:CB	2.50	0.41
1:A:1213:PHE:CB	1:A:1215:ALA:N	2.84	0.41
1:A:3834:ALA:O	1:A:3837:GLN:CB	2.68	0.41
1:A:4197:ILE:HD12	1:A:4990:PHE:CD2	2.54	0.41
1:A:4682:GLU:HA	1:A:4724:VAL:HG13	2.01	0.41
1:A:4954:MET:SD	1:A:4954:MET:O	2.79	0.41
1:A:5031:GLN:NE2	1:A:5031:GLN:C	2.75	0.41
1:B:304:ALA:O	1:B:308:HIS:CB	2.69	0.41
1:B:1074:ILE:HA	1:B:1193:SER:CB	2.51	0.41
1:B:1612:PHE:O	1:B:1613:LEU:CB	2.68	0.41
1:B:3987:ASP:CA	1:B:3988:ALA:HB3	2.51	0.41
1:B:4034:ASN:C	1:B:4153:HIS:CE1	2.98	0.41
1:B:4090:LYS:CB	1:B:4121:GLU:CB	2.98	0.41
1:B:4935:LEU:O	1:B:4939:ALA:CB	2.69	0.41
1:C:121:LEU:O	1:C:133:PHE:HB2	2.21	0.41
1:C:669:ASP:O	1:C:670:GLU:CB	2.69	0.41
1:C:2656:CYS:O	1:C:2657:LEU:C	2.63	0.41
1:C:3937:TYR:C	1:C:3939:GLY:N	2.78	0.41
1:C:4171:LEU:HD23	1:C:4172:GLU:N	2.35	0.41
1:C:5017:ARG:HB3	1:C:5019:TRP:CZ2	2.56	0.41
1:D:351:VAL:O	1:D:352:ALA:CB	2.68	0.41
1:D:378:LEU:C	1:D:380:GLN:HA	2.45	0.41
1:D:789:VAL:O	1:D:1627:ALA:CB	2.69	0.41
1:D:4682:GLU:HA	1:D:4724:VAL:HG13	2.01	0.41
1:D:4800:LEU:HD23	1:D:4801:LEU:CA	2.50	0.41
1:D:4948:GLU:OE1	1:D:4949:GLN:N	2.54	0.41
1:A:351:VAL:O	1:A:352:ALA:CB	2.68	0.41
1:A:379:HIS:N	1:A:381:GLU:N	2.66	0.41
1:A:1108:GLU:O	1:A:1109:LEU:C	2.63	0.41
1:A:1288:PHE:O	1:A:1289:LEU:CB	2.69	0.41
1:A:1439:VAL:O	1:A:1440:PHE:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1528:THR:O	1:A:1529:PHE:CB	2.69	0.41
1:A:1638:ALA:HB2	1:A:1649:ASP:CA	2.50	0.41
1:A:1684:ALA:O	1:A:1687:SER:CB	2.69	0.41
1:A:3059:THR:O	1:A:3062:PRO:C	2.64	0.41
1:A:3167:ARG:C	1:A:3169:LEU:N	2.77	0.41
1:A:3934:TYR:CZ	1:A:3998:HIS:CB	2.96	0.41
1:A:4034:ASN:C	1:A:4153:HIS:CE1	2.98	0.41
1:A:4685:GLY:O	1:A:4689:THR:CB	2.68	0.41
1:A:4783:ILE:C	1:A:4789:PHE:CE2	2.97	0.41
1:A:4861:LYS:O	1:A:4862:PHE:CB	2.69	0.41
1:A:4940:PHE:CZ	1:D:4935:LEU:HD22	2.46	0.41
1:A:4957:LYS:HA	1:A:4964:GLY:C	2.45	0.41
1:B:669:ASP:O	1:B:670:GLU:CB	2.69	0.41
1:B:1160:ILE:C	1:B:1178:ALA:HB1	2.45	0.41
1:B:1708:ARG:CG	1:B:1712:TYR:CE2	2.86	0.41
1:B:2112:GLN:O	1:B:2113:SER:CB	2.69	0.41
1:B:2191:PHE:CE1	1:B:2192:TYR:CE1	3.08	0.41
1:B:2452:ARG:CB	1:B:2453:ILE:CB	2.99	0.41
1:B:2457:LEU:O	1:B:2460:LEU:CB	2.69	0.41
1:B:2777:TYR:H	1:B:2854:GLY:CA	2.33	0.41
1:B:3933:PHE:HD1	1:B:3934:TYR:N	2.19	0.41
1:B:4577:LEU:HD23	1:B:4577:LEU:C	2.45	0.41
1:B:4685:GLY:O	1:B:4689:THR:CB	2.68	0.41
1:B:4856:PHE:HD1	1:B:4857:ASN:ND2	2.19	0.41
1:B:4860:ARG:O	1:B:4861:LYS:CB	2.68	0.41
1:B:4954:MET:SD	1:B:4954:MET:O	2.79	0.41
1:B:5017:ARG:HB3	1:B:5019:TRP:CZ2	2.56	0.41
1:C:39:ALA:CB	1:C:47:CYS:CA	2.98	0.41
1:C:345:LEU:O	1:C:346:CYS:CB	2.69	0.41
1:C:1108:GLU:O	1:C:1109:LEU:C	2.63	0.41
1:C:1530:THR:CB	1:C:1533:GLY:O	2.69	0.41
1:C:2112:GLN:O	1:C:2113:SER:CB	2.69	0.41
1:C:2128:TYR:C	1:C:2128:TYR:HD1	2.29	0.41
1:C:2529:ASP:C	1:C:2531:ARG:N	2.79	0.41
1:C:3933:PHE:HD1	1:C:3934:TYR:N	2.19	0.41
1:C:4034:ASN:C	1:C:4153:HIS:CE1	2.98	0.41
1:C:4178:LEU:C	1:C:4178:LEU:CD1	2.84	0.41
1:C:4685:GLY:CA	1:C:4689:THR:N	2.77	0.41
1:C:4701:TRP:O	1:C:4701:TRP:CD1	2.70	0.41
1:D:15:ARG:O	1:D:16:THR:CB	2.68	0.41
1:D:39:ALA:CB	1:D:47:CYS:CA	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:71:GLN:O	1:D:106:ALA:C	2.57	0.41
1:D:357:LEU:O	1:D:358:THR:CB	2.69	0.41
1:D:438:ILE:CA	1:D:439:GLU:CB	2.99	0.41
1:D:1160:ILE:C	1:D:1178:ALA:HB1	2.45	0.41
1:D:1238:PHE:H	1:D:1610:ASN:C	2.29	0.41
1:D:1439:VAL:O	1:D:1440:PHE:CB	2.68	0.41
1:D:1530:THR:CB	1:D:1533:GLY:O	2.69	0.41
1:D:1587:PRO:O	1:D:1588:ALA:CB	2.69	0.41
1:D:1716:ILE:O	1:D:1721:GLU:N	2.35	0.41
1:D:1831:GLY:C	1:D:1833:SER:H	2.25	0.41
1:D:2173:GLN:O	1:D:2176:ASN:N	2.53	0.41
1:D:2452:ARG:CB	1:D:2453:ILE:CB	2.99	0.41
1:D:2539:ALA:O	1:D:2543:THR:N	2.52	0.41
1:D:3839:CYS:CB	1:D:3922:TYR:HE2	2.34	0.41
1:D:4577:LEU:HD23	1:D:4577:LEU:C	2.45	0.41
1:D:4685:GLY:O	1:D:4689:THR:CB	2.68	0.41
1:D:4732:PHE:C	1:D:4733:GLY:O	2.62	0.41
1:D:4852:THR:HG21	1:D:4883:TYR:N	2.36	0.41
1:D:4954:MET:SD	1:D:4954:MET:O	2.79	0.41
1:D:5031:GLN:NE2	1:D:5031:GLN:C	2.75	0.41
1:A:438:ILE:O	1:A:441:VAL:CB	2.69	0.41
1:A:1238:PHE:H	1:A:1610:ASN:C	2.29	0.41
1:A:1530:THR:CB	1:A:1533:GLY:O	2.69	0.41
1:A:4982:GLU:CB	1:A:4983:HIS:O	2.69	0.41
1:B:15:ARG:O	1:B:16:THR:CB	2.68	0.41
1:B:378:LEU:C	1:B:380:GLN:HA	2.45	0.41
1:B:1288:PHE:O	1:B:1289:LEU:CB	2.69	0.41
1:B:4002:LYS:O	1:B:4005:GLN:CB	2.69	0.41
1:B:4218:ILE:N	1:B:4218:ILE:HD13	2.36	0.41
1:B:4931:ILE:HG12	1:B:4932:ILE:N	2.36	0.41
1:B:5006:GLN:O	1:B:5007:GLU:CB	2.69	0.41
1:C:351:VAL:O	1:C:352:ALA:CB	2.68	0.41
1:C:608:VAL:CB	1:C:613:ALA:HB2	2.51	0.41
1:C:1684:ALA:O	1:C:1687:SER:CB	2.69	0.41
1:C:2188:ASN:O	1:C:2189:LYS:CB	2.69	0.41
1:C:2450:ALA:O	1:C:2453:ILE:CB	2.69	0.41
1:C:3823:LYS:O	1:C:3824:LYS:C	2.59	0.41
1:C:4002:LYS:O	1:C:4005:GLN:CB	2.69	0.41
1:C:4218:ILE:HD13	1:C:4218:ILE:N	2.36	0.41
1:C:4860:ARG:O	1:C:4861:LYS:CB	2.68	0.41
1:C:4933:GLN:OE1	1:C:4933:GLN:CA	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:623:GLU:O	1:D:627:PRO:N	2.53	0.41
1:D:1211:LEU:O	1:D:1212:ARG:CB	2.69	0.41
1:D:1213:PHE:CB	1:D:1215:ALA:N	2.84	0.41
1:D:1252:HIS:O	1:D:1254:HIS:CB	2.68	0.41
1:D:1288:PHE:O	1:D:1289:LEU:CB	2.69	0.41
1:D:2112:GLN:O	1:D:2113:SER:CB	2.69	0.41
1:D:2450:ALA:O	1:D:2453:ILE:CB	2.69	0.41
1:D:4187:SER:O	1:D:4188:ARG:CB	2.69	0.41
1:D:4218:ILE:HD13	1:D:4218:ILE:N	2.36	0.41
1:A:345:LEU:O	1:A:346:CYS:CB	2.69	0.40
1:A:838:HIS:O	1:A:1201:HIS:HA	2.21	0.40
1:A:1161:ILE:HA	1:A:1178:ALA:HB3	1.83	0.40
1:A:1701:ALA:C	1:A:1702:HIS:HD2	2.29	0.40
1:A:4179:GLY:HA2	1:A:4180:ARG:HB3	2.02	0.40
1:A:4714:ASN:O	1:A:4715:TYR:CB	2.69	0.40
1:B:252:VAL:CA	1:B:255:HIS:CB	2.99	0.40
1:B:347:PHE:O	1:B:348:VAL:CB	2.70	0.40
1:B:438:ILE:O	1:B:441:VAL:CB	2.69	0.40
1:B:1638:ALA:HB2	1:B:1649:ASP:H	1.83	0.40
1:B:1744:ALA:O	1:B:1745:ILE:C	2.65	0.40
1:B:2128:TYR:C	1:B:2128:TYR:HD1	2.29	0.40
1:B:2585:THR:C	1:B:2587:TYR:N	2.78	0.40
1:B:4171:LEU:HD23	1:B:4172:GLU:N	2.35	0.40
1:B:4180:ARG:CA	1:B:4181:ILE:HB	2.43	0.40
1:B:4714:ASN:O	1:B:4715:TYR:CB	2.69	0.40
1:B:4832:HIS:CG	1:B:4833:ASN:OD1	2.70	0.40
1:B:4861:LYS:O	1:B:4862:PHE:CB	2.68	0.40
1:C:278:GLN:O	1:C:279:PRO:CB	2.69	0.40
1:C:503:PHE:O	1:C:504:ALA:CB	2.69	0.40
1:C:1288:PHE:O	1:C:1289:LEU:CB	2.69	0.40
1:C:4090:LYS:CB	1:C:4121:GLU:CB	2.98	0.40
1:C:4801:LEU:HD22	1:C:4801:LEU:HA	1.83	0.40
1:C:4829:SER:CB	1:C:4940:PHE:HE1	2.33	0.40
1:C:5006:GLN:O	1:C:5007:GLU:CB	2.69	0.40
1:D:1124:PHE:HE2	1:D:1162:PHE:HD2	1.61	0.40
1:D:2128:TYR:C	1:D:2128:TYR:HD1	2.29	0.40
1:D:2362:GLU:HA	1:D:2363:CYS:CB	2.52	0.40
1:D:2446:GLY:HA2	1:D:2447:LYS:HA	1.86	0.40
1:D:2457:LEU:O	1:D:2460:LEU:CB	2.69	0.40
1:D:3167:ARG:C	1:D:3169:LEU:N	2.77	0.40
1:D:4633:GLU:O	1:D:4634:GLU:CB	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4716:TRP:O	1:D:4716:TRP:CE3	2.70	0.40
1:D:4933:GLN:HA	1:D:4936:ILE:HG22	2.03	0.40
1:A:1093:GLU:CB	1:A:1201:HIS:O	2.70	0.40
1:A:1701:ALA:O	1:A:1702:HIS:CB	2.70	0.40
1:A:2145:SER:C	1:A:2147:SER:N	2.76	0.40
1:A:2519:LEU:HA	1:A:2522:LEU:CB	2.51	0.40
1:A:4565:LEU:HD12	1:A:4565:LEU:HA	1.89	0.40
1:A:4577:LEU:HD23	1:A:4577:LEU:C	2.45	0.40
1:A:5017:ARG:HB3	1:A:5019:TRP:CZ2	2.56	0.40
1:B:110:ARG:CB	1:B:117:TYR:CE1	3.03	0.40
1:B:121:LEU:O	1:B:133:PHE:HB2	2.21	0.40
1:B:501:ALA:CB	1:B:505:GLU:N	2.80	0.40
1:B:596:ASN:O	1:B:597:HIS:CB	2.69	0.40
1:B:838:HIS:O	1:B:1201:HIS:HA	2.21	0.40
1:B:1528:THR:O	1:B:1529:PHE:CB	2.69	0.40
1:B:2788:HIS:O	1:B:2789:PRO:CB	2.69	0.40
1:B:4681:LEU:HD23	1:B:4681:LEU:HA	1.76	0.40
1:C:38:ALA:O	1:C:48:PHE:N	2.55	0.40
1:C:129:ASP:O	1:C:130:LYS:CB	2.68	0.40
1:C:252:VAL:CA	1:C:255:HIS:CB	2.99	0.40
1:C:304:ALA:O	1:C:308:HIS:CB	2.69	0.40
1:C:438:ILE:CA	1:C:439:GLU:CB	2.99	0.40
1:C:438:ILE:O	1:C:441:VAL:CB	2.69	0.40
1:C:722:TRP:O	1:C:723:THR:CB	2.69	0.40
1:C:1074:ILE:HA	1:C:1193:SER:CB	2.50	0.40
1:C:1273:ALA:HA	1:C:1274:HIS:C	2.46	0.40
1:C:1439:VAL:O	1:C:1440:PHE:CB	2.68	0.40
1:C:1701:ALA:O	1:C:1702:HIS:CB	2.70	0.40
1:C:3894:GLY:O	1:C:3895:HIS:HB2	2.20	0.40
1:C:4800:LEU:HD23	1:C:4801:LEU:CA	2.50	0.40
1:C:4931:ILE:HG12	1:C:4932:ILE:N	2.36	0.40
1:D:110:ARG:CB	1:D:117:TYR:CE1	3.03	0.40
1:D:722:TRP:O	1:D:723:THR:CB	2.69	0.40
1:D:826:ILE:O	1:D:827:LYS:CB	2.69	0.40
1:D:1124:PHE:C	1:D:1130:GLN:O	2.64	0.40
1:D:4171:LEU:HD23	1:D:4172:GLU:N	2.35	0.40
1:D:4800:LEU:O	1:D:4803:HIS:HB3	2.22	0.40
1:A:261:ARG:O	1:A:262:LEU:CB	2.68	0.40
1:A:607:CYS:O	1:A:608:VAL:O	2.40	0.40
1:A:1164:LEU:C	1:A:1167:GLU:O	2.61	0.40
1:A:1211:LEU:O	1:A:1214:PHE:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2788:HIS:O	1:A:2789:PRO:CB	2.69	0.40
1:A:3911:THR:O	1:A:3912:THR:CB	2.69	0.40
1:A:4002:LYS:O	1:A:4005:GLN:CB	2.69	0.40
1:A:4105:GLY:N	1:A:4106:PRO:CD	2.81	0.40
1:A:4119:GLU:O	1:A:4120:ASN:CB	2.70	0.40
1:A:4171:LEU:HD23	1:A:4172:GLU:N	2.35	0.40
1:A:4633:GLU:O	1:A:4634:GLU:CB	2.70	0.40
1:B:789:VAL:O	1:B:1627:ALA:CB	2.69	0.40
1:B:826:ILE:O	1:B:827:LYS:CB	2.69	0.40
1:B:2059:LEU:O	1:B:2062:ARG:N	2.55	0.40
1:B:3289:PRO:O	1:B:3290:GLU:CB	2.70	0.40
1:B:3839:CYS:CB	1:B:3922:TYR:HE2	2.34	0.40
1:B:4667:PRO:HA	1:B:4670:ILE:CG2	2.52	0.40
1:B:4857:ASN:O	1:B:4858:PHE:HD1	1.87	0.40
1:B:4968:PHE:HB2	1:B:4975:PHE:HB2	2.03	0.40
1:C:917:GLU:O	1:C:920:TYR:CB	2.70	0.40
1:C:1160:ILE:C	1:C:1178:ALA:HB1	2.45	0.40
1:C:1218:GLY:O	1:C:1222:GLY:N	2.42	0.40
1:C:3839:CYS:CB	1:C:3922:TYR:HE2	2.34	0.40
1:C:4643:LEU:C	1:C:4643:LEU:CD1	2.85	0.40
1:C:4667:PRO:HA	1:C:4670:ILE:CG2	2.52	0.40
1:C:4968:PHE:HB2	1:C:4975:PHE:HB2	2.03	0.40
1:D:291:LEU:O	1:D:292:ALA:CB	2.70	0.40
1:D:608:VAL:CB	1:D:613:ALA:HB2	2.51	0.40
1:D:838:HIS:O	1:D:1201:HIS:HA	2.21	0.40
1:D:1093:GLU:CB	1:D:1201:HIS:O	2.70	0.40
1:D:1124:PHE:CD1	1:D:1125:ASN:O	2.71	0.40
1:D:2125:HIS:HB2	1:D:3725:TYR:CE1	2.55	0.40
1:D:3834:ALA:O	1:D:3837:GLN:CB	2.68	0.40
1:D:3987:ASP:CA	1:D:3988:ALA:HB3	2.51	0.40
1:D:4709:PRO:HG2	1:D:4710:SER:H	1.87	0.40
1:A:278:GLN:O	1:A:279:PRO:CB	2.69	0.40
1:A:538:ALA:C	1:A:540:PHE:N	2.77	0.40
1:A:596:ASN:O	1:A:597:HIS:CB	2.69	0.40
1:A:791:PHE:CA	1:A:1626:TRP:O	2.67	0.40
1:A:1023:PRO:O	1:A:1026:LEU:CB	2.70	0.40
1:A:1273:ALA:HA	1:A:1274:HIS:C	2.46	0.40
1:A:2059:LEU:O	1:A:2062:ARG:N	2.55	0.40
1:A:2125:HIS:HB2	1:A:3725:TYR:CE1	2.55	0.40
1:A:3892:CYS:O	1:A:3893:GLU:CB	2.69	0.40
1:A:4860:ARG:O	1:A:4861:LYS:CB	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5006:GLN:O	1:A:5007:GLU:CB	2.69	0.40
1:B:538:ALA:C	1:B:540:PHE:N	2.77	0.40
1:B:1124:PHE:C	1:B:1130:GLN:O	2.64	0.40
1:B:1211:LEU:O	1:B:1212:ARG:CB	2.69	0.40
1:B:1211:LEU:O	1:B:1214:PHE:CB	2.69	0.40
1:B:1213:PHE:CB	1:B:1215:ALA:N	2.84	0.40
1:B:1530:THR:CB	1:B:1533:GLY:O	2.69	0.40
1:B:1702:HIS:O	1:B:1703:LEU:CB	2.69	0.40
1:B:3664:THR:O	1:B:3665:GLU:CB	2.70	0.40
1:B:4033:GLY:O	1:B:4034:ASN:CB	2.70	0.40
1:B:4208:PRO:HG2	1:B:4209:GLN:N	2.34	0.40
1:B:4768:LEU:CD1	1:B:4770:SER:N	2.73	0.40
1:B:4933:GLN:OE1	1:B:4933:GLN:CA	2.69	0.40
1:B:4982:GLU:CB	1:B:4983:HIS:O	2.69	0.40
1:C:540:PHE:O	1:C:544:LEU:CB	2.69	0.40
1:C:918:ARG:H	1:C:919:ASN:CB	2.35	0.40
1:C:1187:GLY:O	1:C:1188:PHE:CB	2.69	0.40
1:C:1454:THR:O	1:C:1457:TYR:CB	2.70	0.40
1:C:2059:LEU:O	1:C:2062:ARG:N	2.55	0.40
1:C:2200:ALA:HB3	1:C:2206:THR:CB	2.52	0.40
1:C:2788:HIS:O	1:C:2789:PRO:CB	2.69	0.40
1:C:3894:GLY:C	1:C:3895:HIS:HD2	2.28	0.40
1:C:3894:GLY:O	1:C:3895:HIS:CB	2.69	0.40
1:C:4033:GLY:O	1:C:4034:ASN:CB	2.70	0.40
1:C:4187:SER:O	1:C:4188:ARG:CB	2.69	0.40
1:C:4705:VAL:O	1:C:4706:LEU:C	2.63	0.40
1:C:4729:GLY:N	1:C:4730:ASP:O	2.51	0.40
1:C:4832:HIS:C	1:C:4833:ASN:CG	2.89	0.40
1:C:4996:ILE:HD13	1:C:4996:ILE:HA	1.81	0.40
1:D:1094:ALA:HB1	1:D:1096:THR:O	2.22	0.40
1:D:1454:THR:O	1:D:1457:TYR:CB	2.70	0.40
1:D:1675:ALA:O	1:D:1676:LEU:CB	2.70	0.40
1:D:2200:ALA:HB3	1:D:2206:THR:CB	2.52	0.40
1:D:2529:ASP:C	1:D:2531:ARG:N	2.79	0.40
1:D:2777:TYR:H	1:D:2854:GLY:CA	2.33	0.40
1:D:2788:HIS:O	1:D:2789:PRO:CB	2.69	0.40
1:D:3894:GLY:C	1:D:3895:HIS:HD2	2.28	0.40
1:D:3911:THR:O	1:D:3912:THR:CB	2.69	0.40
1:D:4158:PRO:C	1:D:4160:LEU:N	2.79	0.40
1:D:4651:THR:HG1	1:D:4799:SER:HB3	1.87	0.40
1:D:4730:ASP:O	1:D:4731:ILE:CB	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5017:ARG:HB3	1:D:5019:TRP:CZ2	2.56	0.40
1:D:5018:CYS:O	1:D:5019:TRP:C	2.63	0.40
1:A:503:PHE:O	1:A:504:ALA:CB	2.69	0.40
1:A:1744:ALA:O	1:A:1745:ILE:C	2.65	0.40
1:A:2364:PHE:O	1:A:2366:PRO:N	2.55	0.40
1:A:2529:ASP:C	1:A:2531:ARG:N	2.79	0.40
1:A:2777:TYR:H	1:A:2854:GLY:CA	2.32	0.40
1:A:3721:LEU:O	1:A:3725:TYR:CD1	2.60	0.40
1:A:4003:LEU:HA	1:A:4004:ALA:HA	1.68	0.40
1:A:4146:LEU:C	1:A:4146:LEU:CD2	2.85	0.40
1:A:4651:THR:OG1	1:A:4799:SER:OG	2.28	0.40
1:A:4730:ASP:O	1:A:4731:ILE:CB	2.70	0.40
1:A:4848:VAL:CG1	1:A:4849:TYR:N	2.85	0.40
1:B:357:LEU:O	1:B:358:THR:CB	2.69	0.40
1:B:380:GLN:O	1:B:381:GLU:CB	2.69	0.40
1:B:540:PHE:O	1:B:544:LEU:CB	2.69	0.40
1:B:608:VAL:CB	1:B:613:ALA:HB2	2.51	0.40
1:B:1675:ALA:O	1:B:1676:LEU:CB	2.70	0.40
1:B:3912:THR:O	1:B:3913:ILE:CB	2.70	0.40
1:B:4179:GLY:HA2	1:B:4180:ARG:HB3	2.02	0.40
1:B:4659:ILE:CG2	1:B:4660:GLY:N	2.85	0.40
1:C:455:PRO:O	1:C:456:SER:CB	2.70	0.40
1:C:1644:GLU:O	1:C:1645:ASN:CB	2.70	0.40
1:C:2452:ARG:CB	1:C:2453:ILE:CB	2.99	0.40
1:C:2457:LEU:O	1:C:2460:LEU:CB	2.69	0.40
1:C:2756:ASN:O	1:C:2760:GLU:CB	2.69	0.40
1:C:3833:GLN:C	1:C:3833:GLN:NE2	2.73	0.40
1:D:246:TYR:O	1:D:247:TYR:CB	2.70	0.40
1:D:1023:PRO:O	1:D:1026:LEU:CB	2.70	0.40
1:D:1701:ALA:O	1:D:1702:HIS:HB2	2.22	0.40
1:D:2364:PHE:O	1:D:2366:PRO:N	2.55	0.40
1:D:2462:PRO:O	1:D:2464:ASP:CB	2.70	0.40
1:D:2756:ASN:O	1:D:2760:GLU:CB	2.69	0.40
1:D:3808:GLY:O	1:D:3809:ASN:CB	2.69	0.40
1:D:4033:GLY:O	1:D:4034:ASN:CB	2.70	0.40
1:D:4716:TRP:O	1:D:4717:ASP:CB	2.70	0.40
1:D:4800:LEU:C	1:D:4800:LEU:CD2	2.85	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	3311/5037 (66%)	2865 (86%)	203 (6%)	243 (7%)	1	11
1	B	3311/5037 (66%)	2865 (86%)	204 (6%)	242 (7%)	1	11
1	C	3311/5037 (66%)	2865 (86%)	203 (6%)	243 (7%)	1	11
1	D	3311/5037 (66%)	2864 (86%)	205 (6%)	242 (7%)	1	11
All	All	13244/20148 (66%)	11459 (86%)	815 (6%)	970 (7%)	1	11

All (970) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	16	THR
1	A	25	SER
1	A	26	ALA
1	A	44	ASN
1	A	67	PHE
1	A	73	LEU
1	A	105	HIS
1	A	130	LYS
1	A	149	THR
1	A	151	HIS
1	A	152	PRO
1	A	163	VAL
1	A	170	ILE
1	A	174	VAL
1	A	229	GLU
1	A	238	SER
1	A	246	TYR
1	A	253	CYS
1	A	262	LEU
1	A	272	SER
1	A	279	PRO
1	A	286	THR

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Mol	Chain	Res	Type
1	A	300	VAL
1	A	344	SER
1	A	346	CYS
1	A	348	VAL
1	A	358	THR
1	A	381	GLU
1	A	385	ASP
1	A	391	THR
1	A	392	ARG
1	A	439	GLU
1	A	461	HIS
1	A	487	VAL
1	A	498	THR
1	A	505	GLU
1	A	509	GLU
1	A	608	VAL
1	A	631	LEU
1	A	632	LEU
1	A	647	ASN
1	A	670	GLU
1	A	680	THR
1	A	682	LEU
1	A	723	THR
1	A	770	ALA
1	A	774	ASP
1	A	785	ALA
1	A	828	GLU
1	A	832	GLU
1	A	839	LEU
1	A	1028	ASP
1	A	1082	THR
1	A	1113	VAL
1	A	1138	PRO
1	A	1158	ASN
1	A	1188	PHE
1	A	1204	LEU
1	A	1249	PRO
1	A	1250	PRO
1	A	1252	HIS
1	A	1253	PRO
1	A	1286	MET
1	A	1289	LEU

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Mol	Chain	Res	Type
1	A	1290	ARG
1	A	1439	VAL
1	A	1440	PHE
1	A	1529	PHE
1	A	1535	GLU
1	A	1537	ASN
1	A	1545	ASN
1	A	1547	LYS
1	A	1551	ALA
1	A	1552	VAL
1	A	1556	PRO
1	A	1557	THR
1	A	1578	ALA
1	A	1609	PRO
1	A	1613	LEU
1	A	1624	LEU
1	A	1632	ASP
1	A	1633	PRO
1	A	1688	HIS
1	A	1722	SER
1	A	1745	ILE
1	A	1804	LEU
1	A	1828	ASP
1	A	1867	GLU
1	A	1868	PRO
1	A	2131	LEU
1	A	2146	PRO
1	A	2168	VAL
1	A	2241	ARG
1	A	2279	SER
1	A	2341	VAL
1	A	2453	ILE
1	A	2462	PRO
1	A	2464	ASP
1	A	2587	TYR
1	A	2740	VAL
1	A	2788	HIS
1	A	2789	PRO
1	A	3071	LEU
1	A	3292	PRO
1	A	3293	PRO
1	A	3294	PRO

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Mol	Chain	Res	Type
1	A	3665	GLU
1	A	3667	HIS
1	A	3718	GLU
1	A	3824	LYS
1	A	3826	VAL
1	A	3905	THR
1	A	3911	THR
1	A	3912	THR
1	A	3913	ILE
1	A	3915	ILE
1	A	3942	VAL
1	A	3983	SER
1	A	3987	ASP
1	A	4120	ASN
1	A	4181	ILE
1	A	4182	GLU
1	A	4207	MET
1	A	4633	GLU
1	A	4690	GLU
1	A	4691	GLN
1	A	4697	VAL
1	A	4706	LEU
1	A	4715	TYR
1	A	4717	ASP
1	A	4718	LYS
1	A	4731	ILE
1	A	4740	LEU
1	A	4804	TYR
1	A	4836	GLN
1	A	4961	CYS
1	A	4967	TYR
1	A	4998	LYS
1	A	5008	SER
1	A	5024	ALA
1	B	16	THR
1	B	25	SER
1	B	26	ALA
1	B	44	ASN
1	B	67	PHE
1	B	73	LEU
1	B	105	HIS
1	B	130	LYS

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Mol	Chain	Res	Type
1	B	149	THR
1	B	151	HIS
1	B	152	PRO
1	B	163	VAL
1	B	170	ILE
1	B	174	VAL
1	B	229	GLU
1	B	238	SER
1	B	246	TYR
1	B	253	CYS
1	B	262	LEU
1	B	272	SER
1	B	279	PRO
1	B	286	THR
1	B	300	VAL
1	B	344	SER
1	B	346	CYS
1	B	348	VAL
1	B	358	THR
1	B	381	GLU
1	B	385	ASP
1	B	391	THR
1	B	392	ARG
1	B	439	GLU
1	B	461	HIS
1	B	487	VAL
1	B	498	THR
1	B	505	GLU
1	B	509	GLU
1	B	608	VAL
1	B	631	LEU
1	B	632	LEU
1	B	647	ASN
1	B	670	GLU
1	B	680	THR
1	B	682	LEU
1	B	723	THR
1	B	770	ALA
1	B	774	ASP
1	B	785	ALA
1	B	828	GLU
1	B	832	GLU

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Mol	Chain	Res	Type
1	B	839	LEU
1	B	1028	ASP
1	B	1082	THR
1	B	1113	VAL
1	B	1138	PRO
1	B	1158	ASN
1	B	1188	PHE
1	B	1204	LEU
1	B	1249	PRO
1	B	1250	PRO
1	B	1252	HIS
1	B	1253	PRO
1	B	1286	MET
1	B	1289	LEU
1	B	1290	ARG
1	B	1439	VAL
1	B	1440	PHE
1	B	1529	PHE
1	B	1535	GLU
1	B	1537	ASN
1	B	1545	ASN
1	B	1547	LYS
1	B	1551	ALA
1	B	1552	VAL
1	B	1556	PRO
1	B	1557	THR
1	B	1578	ALA
1	B	1609	PRO
1	B	1613	LEU
1	B	1624	LEU
1	B	1632	ASP
1	B	1633	PRO
1	B	1688	HIS
1	B	1722	SER
1	B	1745	ILE
1	B	1804	LEU
1	B	1828	ASP
1	B	1867	GLU
1	B	1868	PRO
1	B	2131	LEU
1	B	2146	PRO
1	B	2168	VAL

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Mol	Chain	Res	Type
1	B	2241	ARG
1	B	2279	SER
1	B	2341	VAL
1	B	2453	ILE
1	B	2462	PRO
1	B	2464	ASP
1	B	2587	TYR
1	B	2740	VAL
1	B	2788	HIS
1	B	2789	PRO
1	B	3071	LEU
1	B	3292	PRO
1	B	3293	PRO
1	B	3294	PRO
1	B	3665	GLU
1	B	3667	HIS
1	B	3718	GLU
1	B	3824	LYS
1	B	3826	VAL
1	B	3905	THR
1	B	3911	THR
1	B	3912	THR
1	B	3913	ILE
1	B	3915	ILE
1	B	3942	VAL
1	B	3983	SER
1	B	3987	ASP
1	B	4120	ASN
1	B	4181	ILE
1	B	4182	GLU
1	B	4207	MET
1	B	4633	GLU
1	B	4690	GLU
1	B	4691	GLN
1	B	4697	VAL
1	B	4706	LEU
1	B	4715	TYR
1	B	4717	ASP
1	B	4718	LYS
1	B	4731	ILE
1	B	4740	LEU
1	B	4804	TYR

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Mol	Chain	Res	Type
1	B	4836	GLN
1	B	4961	CYS
1	B	4967	TYR
1	B	4998	LYS
1	B	5008	SER
1	B	5024	ALA
1	C	16	THR
1	C	25	SER
1	C	26	ALA
1	C	44	ASN
1	C	67	PHE
1	C	73	LEU
1	C	105	HIS
1	C	130	LYS
1	C	149	THR
1	C	151	HIS
1	C	152	PRO
1	C	163	VAL
1	C	170	ILE
1	C	174	VAL
1	C	229	GLU
1	C	238	SER
1	C	246	TYR
1	C	253	CYS
1	C	262	LEU
1	C	272	SER
1	C	279	PRO
1	C	286	THR
1	C	300	VAL
1	C	344	SER
1	C	346	CYS
1	C	348	VAL
1	C	358	THR
1	C	381	GLU
1	C	385	ASP
1	C	391	THR
1	C	392	ARG
1	C	439	GLU
1	C	461	HIS
1	C	487	VAL
1	C	498	THR
1	C	505	GLU

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Mol	Chain	Res	Type
1	C	509	GLU
1	C	608	VAL
1	C	631	LEU
1	C	632	LEU
1	C	647	ASN
1	C	670	GLU
1	C	680	THR
1	C	682	LEU
1	C	723	THR
1	C	770	ALA
1	C	774	ASP
1	C	785	ALA
1	C	828	GLU
1	C	832	GLU
1	C	839	LEU
1	C	1028	ASP
1	C	1082	THR
1	C	1113	VAL
1	C	1138	PRO
1	C	1158	ASN
1	C	1188	PHE
1	C	1204	LEU
1	C	1249	PRO
1	C	1250	PRO
1	C	1252	HIS
1	C	1253	PRO
1	C	1286	MET
1	C	1289	LEU
1	C	1290	ARG
1	C	1439	VAL
1	C	1440	PHE
1	C	1529	PHE
1	C	1535	GLU
1	C	1537	ASN
1	C	1545	ASN
1	C	1547	LYS
1	C	1551	ALA
1	C	1552	VAL
1	C	1556	PRO
1	C	1557	THR
1	C	1578	ALA
1	C	1609	PRO

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Mol	Chain	Res	Type
1	C	1613	LEU
1	C	1624	LEU
1	C	1632	ASP
1	C	1633	PRO
1	C	1688	HIS
1	C	1722	SER
1	C	1745	ILE
1	C	1804	LEU
1	C	1828	ASP
1	C	1867	GLU
1	C	1868	PRO
1	C	2131	LEU
1	C	2146	PRO
1	C	2168	VAL
1	C	2241	ARG
1	C	2279	SER
1	C	2341	VAL
1	C	2453	ILE
1	C	2462	PRO
1	C	2464	ASP
1	C	2587	TYR
1	C	2740	VAL
1	C	2788	HIS
1	C	2789	PRO
1	C	3071	LEU
1	C	3292	PRO
1	C	3293	PRO
1	C	3294	PRO
1	C	3665	GLU
1	C	3667	HIS
1	C	3718	GLU
1	C	3824	LYS
1	C	3826	VAL
1	C	3905	THR
1	C	3911	THR
1	C	3912	THR
1	C	3913	ILE
1	C	3915	ILE
1	C	3942	VAL
1	C	3983	SER
1	C	3987	ASP
1	C	4120	ASN

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Mol	Chain	Res	Type
1	C	4181	ILE
1	C	4182	GLU
1	C	4207	MET
1	C	4633	GLU
1	C	4690	GLU
1	C	4691	GLN
1	C	4697	VAL
1	C	4706	LEU
1	C	4715	TYR
1	C	4717	ASP
1	C	4718	LYS
1	C	4731	ILE
1	C	4740	LEU
1	C	4804	TYR
1	C	4836	GLN
1	C	4961	CYS
1	C	4967	TYR
1	C	4998	LYS
1	C	5008	SER
1	C	5024	ALA
1	D	16	THR
1	D	25	SER
1	D	26	ALA
1	D	44	ASN
1	D	67	PHE
1	D	73	LEU
1	D	105	HIS
1	D	130	LYS
1	D	149	THR
1	D	151	HIS
1	D	152	PRO
1	D	163	VAL
1	D	170	ILE
1	D	174	VAL
1	D	229	GLU
1	D	238	SER
1	D	246	TYR
1	D	253	CYS
1	D	262	LEU
1	D	272	SER
1	D	279	PRO
1	D	286	THR

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Mol	Chain	Res	Type
1	D	300	VAL
1	D	344	SER
1	D	346	CYS
1	D	348	VAL
1	D	358	THR
1	D	381	GLU
1	D	385	ASP
1	D	391	THR
1	D	392	ARG
1	D	439	GLU
1	D	461	HIS
1	D	487	VAL
1	D	498	THR
1	D	505	GLU
1	D	509	GLU
1	D	608	VAL
1	D	631	LEU
1	D	632	LEU
1	D	647	ASN
1	D	670	GLU
1	D	680	THR
1	D	682	LEU
1	D	723	THR
1	D	770	ALA
1	D	774	ASP
1	D	785	ALA
1	D	828	GLU
1	D	832	GLU
1	D	839	LEU
1	D	1028	ASP
1	D	1082	THR
1	D	1113	VAL
1	D	1138	PRO
1	D	1158	ASN
1	D	1188	PHE
1	D	1204	LEU
1	D	1249	PRO
1	D	1250	PRO
1	D	1252	HIS
1	D	1253	PRO
1	D	1286	MET
1	D	1289	LEU

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Mol	Chain	Res	Type
1	D	1290	ARG
1	D	1439	VAL
1	D	1440	PHE
1	D	1529	PHE
1	D	1535	GLU
1	D	1537	ASN
1	D	1545	ASN
1	D	1547	LYS
1	D	1551	ALA
1	D	1552	VAL
1	D	1556	PRO
1	D	1557	THR
1	D	1578	ALA
1	D	1609	PRO
1	D	1613	LEU
1	D	1624	LEU
1	D	1632	ASP
1	D	1633	PRO
1	D	1688	HIS
1	D	1722	SER
1	D	1745	ILE
1	D	1804	LEU
1	D	1828	ASP
1	D	1867	GLU
1	D	1868	PRO
1	D	2131	LEU
1	D	2146	PRO
1	D	2168	VAL
1	D	2241	ARG
1	D	2279	SER
1	D	2341	VAL
1	D	2453	ILE
1	D	2462	PRO
1	D	2464	ASP
1	D	2587	TYR
1	D	2740	VAL
1	D	2788	HIS
1	D	2789	PRO
1	D	3071	LEU
1	D	3292	PRO
1	D	3293	PRO
1	D	3294	PRO

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Mol	Chain	Res	Type
1	D	3665	GLU
1	D	3667	HIS
1	D	3718	GLU
1	D	3824	LYS
1	D	3826	VAL
1	D	3905	THR
1	D	3911	THR
1	D	3912	THR
1	D	3913	ILE
1	D	3915	ILE
1	D	3942	VAL
1	D	3983	SER
1	D	3987	ASP
1	D	4120	ASN
1	D	4181	ILE
1	D	4182	GLU
1	D	4207	MET
1	D	4633	GLU
1	D	4690	GLU
1	D	4691	GLN
1	D	4697	VAL
1	D	4706	LEU
1	D	4715	TYR
1	D	4717	ASP
1	D	4718	LYS
1	D	4731	ILE
1	D	4740	LEU
1	D	4804	TYR
1	D	4836	GLN
1	D	4961	CYS
1	D	4967	TYR
1	D	4998	LYS
1	D	5008	SER
1	D	5024	ALA
1	A	68	THR
1	A	304	ALA
1	A	313	SER
1	A	352	ALA
1	A	386	ASP
1	A	484	LEU
1	A	510	GLU
1	A	702	TRP

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Mol	Chain	Res	Type
1	A	703	GLY
1	A	726	VAL
1	A	727	ALA
1	A	733	PRO
1	A	827	LYS
1	A	1436	SER
1	A	1588	ALA
1	A	1689	VAL
1	A	2109	ASP
1	A	2173	GLN
1	A	2191	PHE
1	A	2275	VAL
1	A	2786	LYS
1	A	2852	ARG
1	A	3809	ASN
1	A	3988	ALA
1	A	4089	SER
1	A	4555	LEU
1	A	4686	LEU
1	A	4698	LYS
1	A	4866	SER
1	A	4984	ASN
1	A	5018	CYS
1	B	68	THR
1	B	304	ALA
1	B	313	SER
1	B	352	ALA
1	B	386	ASP
1	B	484	LEU
1	B	510	GLU
1	B	702	TRP
1	B	703	GLY
1	B	726	VAL
1	B	727	ALA
1	B	733	PRO
1	B	827	LYS
1	B	1436	SER
1	B	1588	ALA
1	B	1689	VAL
1	B	2109	ASP
1	B	2173	GLN
1	B	2191	PHE

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Mol	Chain	Res	Type
1	B	2275	VAL
1	B	2786	LYS
1	B	2852	ARG
1	B	3809	ASN
1	B	3988	ALA
1	B	4089	SER
1	B	4555	LEU
1	B	4686	LEU
1	B	4698	LYS
1	B	4866	SER
1	B	4984	ASN
1	B	5018	CYS
1	C	68	THR
1	C	304	ALA
1	C	313	SER
1	C	352	ALA
1	C	386	ASP
1	C	484	LEU
1	C	510	GLU
1	C	702	TRP
1	C	703	GLY
1	C	726	VAL
1	C	727	ALA
1	C	733	PRO
1	C	827	LYS
1	C	1436	SER
1	C	1588	ALA
1	C	1689	VAL
1	C	2109	ASP
1	C	2173	GLN
1	C	2191	PHE
1	C	2275	VAL
1	C	2786	LYS
1	C	2852	ARG
1	C	3809	ASN
1	C	3988	ALA
1	C	4089	SER
1	C	4555	LEU
1	C	4686	LEU
1	C	4698	LYS
1	C	4866	SER
1	C	4984	ASN

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Mol	Chain	Res	Type
1	C	5018	CYS
1	D	68	THR
1	D	304	ALA
1	D	313	SER
1	D	352	ALA
1	D	386	ASP
1	D	484	LEU
1	D	510	GLU
1	D	702	TRP
1	D	703	GLY
1	D	726	VAL
1	D	727	ALA
1	D	733	PRO
1	D	827	LYS
1	D	1436	SER
1	D	1588	ALA
1	D	1689	VAL
1	D	2109	ASP
1	D	2173	GLN
1	D	2191	PHE
1	D	2275	VAL
1	D	2786	LYS
1	D	2852	ARG
1	D	3809	ASN
1	D	3988	ALA
1	D	4089	SER
1	D	4555	LEU
1	D	4686	LEU
1	D	4698	LYS
1	D	4866	SER
1	D	4984	ASN
1	D	5018	CYS
1	A	215	THR
1	A	231	LEU
1	A	337	PRO
1	A	452	PHE
1	A	710	ASP
1	A	838	HIS
1	A	1181	GLU
1	A	1190	PRO
1	A	1212	ARG
1	A	1462	MET

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Mol	Chain	Res	Type
1	A	1702	HIS
1	A	2113	SER
1	A	2363	CYS
1	A	2530	MET
1	A	2743	LEU
1	A	2779	GLU
1	A	3062	PRO
1	A	3895	HIS
1	A	4034	ASN
1	A	4155	PRO
1	A	4634	GLU
1	A	4716	TRP
1	A	4774	LYS
1	A	4861	LYS
1	A	5019	TRP
1	B	215	THR
1	B	231	LEU
1	B	337	PRO
1	B	452	PHE
1	B	710	ASP
1	B	838	HIS
1	B	1181	GLU
1	B	1190	PRO
1	B	1212	ARG
1	B	1462	MET
1	B	1702	HIS
1	B	2113	SER
1	B	2363	CYS
1	B	2530	MET
1	B	2743	LEU
1	B	2779	GLU
1	B	3062	PRO
1	B	3895	HIS
1	B	4034	ASN
1	B	4155	PRO
1	B	4634	GLU
1	B	4716	TRP
1	B	4774	LYS
1	B	4861	LYS
1	B	5019	TRP
1	C	215	THR
1	C	231	LEU

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Mol	Chain	Res	Type
1	C	337	PRO
1	C	452	PHE
1	C	710	ASP
1	C	838	HIS
1	C	1181	GLU
1	C	1190	PRO
1	C	1212	ARG
1	C	1462	MET
1	C	1702	HIS
1	C	2113	SER
1	C	2363	CYS
1	C	2530	MET
1	C	2743	LEU
1	C	2779	GLU
1	C	3062	PRO
1	C	3895	HIS
1	C	4034	ASN
1	C	4155	PRO
1	C	4634	GLU
1	C	4716	TRP
1	C	4774	LYS
1	C	4861	LYS
1	C	5019	TRP
1	D	215	THR
1	D	231	LEU
1	D	337	PRO
1	D	452	PHE
1	D	710	ASP
1	D	838	HIS
1	D	1181	GLU
1	D	1190	PRO
1	D	1212	ARG
1	D	1462	MET
1	D	1702	HIS
1	D	2113	SER
1	D	2240	CYS
1	D	2363	CYS
1	D	2530	MET
1	D	2743	LEU
1	D	2779	GLU
1	D	3062	PRO
1	D	3895	HIS

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Mol	Chain	Res	Type
1	D	4034	ASN
1	D	4155	PRO
1	D	4634	GLU
1	D	4716	TRP
1	D	4774	LYS
1	D	4861	LYS
1	D	5019	TRP
1	A	243	ARG
1	A	769	GLU
1	A	1277	TRP
1	A	1602	PRO
1	A	1649	ASP
1	A	1680	ARG
1	A	1829	PRO
1	A	2110	TYR
1	A	2240	CYS
1	A	2532	ALA
1	A	2589	LEU
1	A	3759	GLU
1	A	3806	ASN
1	A	4092	ASP
1	A	4190	ILE
1	A	4556	SER
1	A	4904	PRO
1	B	243	ARG
1	B	769	GLU
1	B	1277	TRP
1	B	1602	PRO
1	B	1649	ASP
1	B	1680	ARG
1	B	1829	PRO
1	B	2110	TYR
1	B	2240	CYS
1	B	2532	ALA
1	B	2589	LEU
1	B	3759	GLU
1	B	3806	ASN
1	B	4092	ASP
1	B	4190	ILE
1	B	4556	SER
1	B	4904	PRO
1	C	243	ARG

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Mol	Chain	Res	Type
1	C	769	GLU
1	C	1277	TRP
1	C	1602	PRO
1	C	1649	ASP
1	C	1680	ARG
1	C	1829	PRO
1	C	2110	TYR
1	C	2240	CYS
1	C	2532	ALA
1	C	2589	LEU
1	C	3759	GLU
1	C	3806	ASN
1	C	4092	ASP
1	C	4190	ILE
1	C	4556	SER
1	C	4904	PRO
1	D	243	ARG
1	D	769	GLU
1	D	1277	TRP
1	D	1602	PRO
1	D	1649	ASP
1	D	1680	ARG
1	D	1829	PRO
1	D	2110	TYR
1	D	2532	ALA
1	D	2589	LEU
1	D	3759	GLU
1	D	3806	ASN
1	D	4092	ASP
1	D	4190	ILE
1	D	4556	SER
1	D	4904	PRO
1	A	504	ALA
1	A	765	GLN
1	A	767	VAL
1	A	1189	LEU
1	A	1601	MET
1	A	1690	ASP
1	A	1703	LEU
1	A	2169	GLN
1	A	2867	LEU
1	A	3805	LEU

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Mol	Chain	Res	Type
1	A	4005	GLN
1	A	4087	LEU
1	A	4188	ARG
1	A	4239	GLU
1	A	4635	SER
1	A	4714	ASN
1	A	4985	LEU
1	A	4999	ASP
1	A	5023	PRO
1	B	504	ALA
1	B	765	GLN
1	B	767	VAL
1	B	1189	LEU
1	B	1601	MET
1	B	1690	ASP
1	B	1703	LEU
1	B	2169	GLN
1	B	2867	LEU
1	B	3805	LEU
1	B	4005	GLN
1	B	4087	LEU
1	B	4188	ARG
1	B	4239	GLU
1	B	4635	SER
1	B	4714	ASN
1	B	4999	ASP
1	B	5023	PRO
1	C	504	ALA
1	C	765	GLN
1	C	767	VAL
1	C	1189	LEU
1	C	1601	MET
1	C	1690	ASP
1	C	1703	LEU
1	C	2169	GLN
1	C	2867	LEU
1	C	3805	LEU
1	C	4005	GLN
1	C	4087	LEU
1	C	4188	ARG
1	C	4239	GLU
1	C	4635	SER

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Mol	Chain	Res	Type
1	C	4714	ASN
1	C	4999	ASP
1	C	5023	PRO
1	D	504	ALA
1	D	765	GLN
1	D	767	VAL
1	D	1189	LEU
1	D	1601	MET
1	D	1690	ASP
1	D	1703	LEU
1	D	2169	GLN
1	D	2867	LEU
1	D	3805	LEU
1	D	4005	GLN
1	D	4087	LEU
1	D	4188	ARG
1	D	4239	GLU
1	D	4635	SER
1	D	4714	ASN
1	D	4999	ASP
1	D	5023	PRO
1	A	132	ALA
1	A	919	ASN
1	A	2361	PRO
1	B	132	ALA
1	B	919	ASN
1	B	2361	PRO
1	C	132	ALA
1	C	919	ASN
1	C	2361	PRO
1	C	3893	GLU
1	D	132	ALA
1	D	919	ASN
1	D	2361	PRO
1	A	779	PRO
1	B	779	PRO
1	C	779	PRO
1	C	1294	PRO
1	D	779	PRO
1	D	1294	PRO
1	A	646	PRO
1	A	1294	PRO

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Mol	Chain	Res	Type
1	A	4773	VAL
1	B	646	PRO
1	B	1294	PRO
1	B	4773	VAL
1	C	646	PRO
1	C	4773	VAL
1	D	646	PRO
1	D	4773	VAL
1	A	1543	GLU
1	B	1543	GLU
1	C	1543	GLU
1	D	1543	GLU
1	A	2860	PRO
1	B	2860	PRO
1	C	2860	PRO
1	D	2860	PRO
1	A	4733	GLY
1	B	4733	GLY
1	C	4733	GLY
1	D	4733	GLY
1	A	842	PRO
1	B	842	PRO
1	C	842	PRO
1	D	842	PRO

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	317/4276 (7%)	225 (71%)	92 (29%)	0	3
1	B	317/4276 (7%)	227 (72%)	90 (28%)	0	3
1	C	317/4276 (7%)	226 (71%)	91 (29%)	0	3
1	D	317/4276 (7%)	226 (71%)	91 (29%)	0	3
All	All	1268/17104 (7%)	904 (71%)	364 (29%)	1	3

All (364) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	478	PHE
1	A	515	TRP
1	A	1564	PHE
1	A	1748	PHE
1	A	2063	LEU
1	A	2128	TYR
1	A	2191	PHE
1	A	2454	ARG
1	A	3828	PHE
1	A	3833	GLN
1	A	3837	GLN
1	A	3880	PHE
1	A	3933	PHE
1	A	3935	TRP
1	A	3951	PHE
1	A	4061	PHE
1	A	4108	ILE
1	A	4110	PHE
1	A	4128	PHE
1	A	4148	THR
1	A	4181	ILE
1	A	4182	GLU
1	A	4183	ILE
1	A	4190	ILE
1	A	4191	GLU
1	A	4195	PHE
1	A	4238	CYS
1	A	4241	THR
1	A	4559	PHE
1	A	4561	THR
1	A	4575	PHE
1	A	4643	LEU
1	A	4645	CYS
1	A	4646	LEU
1	A	4650	HIS
1	A	4656	LEU
1	A	4663	CYS
1	A	4664	LEU
1	A	4666	VAL
1	A	4670	ILE
1	A	4673	ARG
1	A	4697	VAL

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Mol	Chain	Res	Type
1	A	4719	PHE
1	A	4768	LEU
1	A	4776	GLN
1	A	4779	LYS
1	A	4783	ILE
1	A	4789	PHE
1	A	4797	VAL
1	A	4799	SER
1	A	4800	LEU
1	A	4801	LEU
1	A	4806	ASN
1	A	4823	LEU
1	A	4837	LEU
1	A	4843	LEU
1	A	4844	LEU
1	A	4849	TYR
1	A	4854	VAL
1	A	4886	HIS
1	A	4911	LEU
1	A	4916	PHE
1	A	4918	ILE
1	A	4919	THR
1	A	4922	PHE
1	A	4923	PHE
1	A	4925	ILE
1	A	4927	ILE
1	A	4928	LEU
1	A	4929	LEU
1	A	4931	ILE
1	A	4933	GLN
1	A	4935	LEU
1	A	4936	ILE
1	A	4940	PHE
1	A	4943	LEU
1	A	4944	ARG
1	A	4948	GLU
1	A	4967	TYR
1	A	4971	THR
1	A	4977	THR
1	A	4983	HIS
1	A	4991	PHE
1	A	4994	TYR

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Mol	Chain	Res	Type
1	A	4996	ILE
1	A	4997	ASN
1	A	5009	TYR
1	A	5014	TYR
1	A	5019	TRP
1	A	5020	ASP
1	A	5023	PRO
1	A	5026	ASP
1	B	478	PHE
1	B	515	TRP
1	B	1564	PHE
1	B	1748	PHE
1	B	2063	LEU
1	B	2128	TYR
1	B	2191	PHE
1	B	2454	ARG
1	B	3828	PHE
1	B	3833	GLN
1	B	3837	GLN
1	B	3880	PHE
1	B	3933	PHE
1	B	3935	TRP
1	B	3951	PHE
1	B	4061	PHE
1	B	4108	ILE
1	B	4110	PHE
1	B	4128	PHE
1	B	4148	THR
1	B	4181	ILE
1	B	4182	GLU
1	B	4183	ILE
1	B	4190	ILE
1	B	4191	GLU
1	B	4195	PHE
1	B	4238	CYS
1	B	4241	THR
1	B	4559	PHE
1	B	4561	THR
1	B	4575	PHE
1	B	4643	LEU
1	B	4645	CYS
1	B	4646	LEU

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Mol	Chain	Res	Type
1	B	4650	HIS
1	B	4656	LEU
1	B	4663	CYS
1	B	4664	LEU
1	B	4666	VAL
1	B	4670	ILE
1	B	4673	ARG
1	B	4697	VAL
1	B	4719	PHE
1	B	4768	LEU
1	B	4776	GLN
1	B	4779	LYS
1	B	4783	ILE
1	B	4789	PHE
1	B	4797	VAL
1	B	4799	SER
1	B	4800	LEU
1	B	4801	LEU
1	B	4806	ASN
1	B	4823	LEU
1	B	4837	LEU
1	B	4843	LEU
1	B	4844	LEU
1	B	4849	TYR
1	B	4854	VAL
1	B	4886	HIS
1	B	4911	LEU
1	B	4916	PHE
1	B	4918	ILE
1	B	4919	THR
1	B	4922	PHE
1	B	4923	PHE
1	B	4925	ILE
1	B	4927	ILE
1	B	4928	LEU
1	B	4929	LEU
1	B	4931	ILE
1	B	4933	GLN
1	B	4935	LEU
1	B	4936	ILE
1	B	4940	PHE
1	B	4943	LEU

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Mol	Chain	Res	Type
1	B	4944	ARG
1	B	4948	GLU
1	B	4967	TYR
1	B	4971	THR
1	B	4977	THR
1	B	4983	HIS
1	B	4992	LEU
1	B	4997	ASN
1	B	5009	TYR
1	B	5014	TYR
1	B	5019	TRP
1	B	5020	ASP
1	B	5023	PRO
1	B	5026	ASP
1	C	478	PHE
1	C	515	TRP
1	C	1564	PHE
1	C	1748	PHE
1	C	2063	LEU
1	C	2128	TYR
1	C	2191	PHE
1	C	2454	ARG
1	C	3828	PHE
1	C	3833	GLN
1	C	3837	GLN
1	C	3880	PHE
1	C	3933	PHE
1	C	3935	TRP
1	C	3951	PHE
1	C	4061	PHE
1	C	4108	ILE
1	C	4110	PHE
1	C	4128	PHE
1	C	4148	THR
1	C	4181	ILE
1	C	4182	GLU
1	C	4183	ILE
1	C	4190	ILE
1	C	4191	GLU
1	C	4195	PHE
1	C	4238	CYS
1	C	4241	THR

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Mol	Chain	Res	Type
1	C	4559	PHE
1	C	4561	THR
1	C	4575	PHE
1	C	4643	LEU
1	C	4645	CYS
1	C	4646	LEU
1	C	4650	HIS
1	C	4656	LEU
1	C	4663	CYS
1	C	4664	LEU
1	C	4666	VAL
1	C	4670	ILE
1	C	4673	ARG
1	C	4697	VAL
1	C	4719	PHE
1	C	4768	LEU
1	C	4776	GLN
1	C	4779	LYS
1	C	4783	ILE
1	C	4789	PHE
1	C	4797	VAL
1	C	4799	SER
1	C	4800	LEU
1	C	4801	LEU
1	C	4806	ASN
1	C	4823	LEU
1	C	4837	LEU
1	C	4843	LEU
1	C	4844	LEU
1	C	4849	TYR
1	C	4854	VAL
1	C	4886	HIS
1	C	4911	LEU
1	C	4916	PHE
1	C	4918	ILE
1	C	4919	THR
1	C	4922	PHE
1	C	4923	PHE
1	C	4925	ILE
1	C	4927	ILE
1	C	4928	LEU
1	C	4929	LEU

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Mol	Chain	Res	Type
1	C	4931	ILE
1	C	4933	GLN
1	C	4935	LEU
1	C	4936	ILE
1	C	4940	PHE
1	C	4943	LEU
1	C	4944	ARG
1	C	4948	GLU
1	C	4952	GLU
1	C	4967	TYR
1	C	4971	THR
1	C	4977	THR
1	C	4983	HIS
1	C	4992	LEU
1	C	4997	ASN
1	C	5009	TYR
1	C	5014	TYR
1	C	5019	TRP
1	C	5020	ASP
1	C	5023	PRO
1	C	5026	ASP
1	D	478	PHE
1	D	515	TRP
1	D	1564	PHE
1	D	1748	PHE
1	D	2063	LEU
1	D	2128	TYR
1	D	2191	PHE
1	D	2454	ARG
1	D	3828	PHE
1	D	3833	GLN
1	D	3837	GLN
1	D	3880	PHE
1	D	3933	PHE
1	D	3935	TRP
1	D	3951	PHE
1	D	4061	PHE
1	D	4108	ILE
1	D	4110	PHE
1	D	4128	PHE
1	D	4148	THR
1	D	4181	ILE

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Mol	Chain	Res	Type
1	D	4182	GLU
1	D	4183	ILE
1	D	4190	ILE
1	D	4191	GLU
1	D	4195	PHE
1	D	4238	CYS
1	D	4241	THR
1	D	4559	PHE
1	D	4561	THR
1	D	4575	PHE
1	D	4643	LEU
1	D	4645	CYS
1	D	4646	LEU
1	D	4650	HIS
1	D	4656	LEU
1	D	4663	CYS
1	D	4664	LEU
1	D	4666	VAL
1	D	4670	ILE
1	D	4673	ARG
1	D	4697	VAL
1	D	4719	PHE
1	D	4768	LEU
1	D	4776	GLN
1	D	4779	LYS
1	D	4783	ILE
1	D	4789	PHE
1	D	4797	VAL
1	D	4799	SER
1	D	4800	LEU
1	D	4801	LEU
1	D	4806	ASN
1	D	4823	LEU
1	D	4837	LEU
1	D	4843	LEU
1	D	4844	LEU
1	D	4849	TYR
1	D	4854	VAL
1	D	4886	HIS
1	D	4911	LEU
1	D	4916	PHE
1	D	4918	ILE

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Mol	Chain	Res	Type
1	D	4919	THR
1	D	4922	PHE
1	D	4923	PHE
1	D	4925	ILE
1	D	4927	ILE
1	D	4928	LEU
1	D	4929	LEU
1	D	4931	ILE
1	D	4933	GLN
1	D	4935	LEU
1	D	4936	ILE
1	D	4940	PHE
1	D	4943	LEU
1	D	4944	ARG
1	D	4947	GLN
1	D	4948	GLU
1	D	4967	TYR
1	D	4971	THR
1	D	4977	THR
1	D	4983	HIS
1	D	4992	LEU
1	D	4997	ASN
1	D	5009	TYR
1	D	5014	TYR
1	D	5019	TRP
1	D	5020	ASP
1	D	5023	PRO
1	D	5026	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (45) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1702	HIS
1	A	2161	GLN
1	A	3833	GLN
1	A	4553	ASN
1	A	4650	HIS
1	A	4776	GLN
1	A	4803	HIS
1	A	4806	ASN
1	A	4857	ASN
1	A	4983	HIS

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Mol	Chain	Res	Type
1	A	5031	GLN
1	B	1702	HIS
1	B	2161	GLN
1	B	3833	GLN
1	B	4553	ASN
1	B	4650	HIS
1	B	4776	GLN
1	B	4803	HIS
1	B	4806	ASN
1	B	4833	ASN
1	B	4857	ASN
1	B	4983	HIS
1	B	5031	GLN
1	C	1702	HIS
1	C	2161	GLN
1	C	3833	GLN
1	C	4553	ASN
1	C	4650	HIS
1	C	4776	GLN
1	C	4803	HIS
1	C	4806	ASN
1	C	4857	ASN
1	C	4983	HIS
1	C	5031	GLN
1	D	1702	HIS
1	D	2161	GLN
1	D	3833	GLN
1	D	4553	ASN
1	D	4650	HIS
1	D	4776	GLN
1	D	4803	HIS
1	D	4806	ASN
1	D	4857	ASN
1	D	4983	HIS
1	D	5031	GLN

5.3.3 RNA ⓘ

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.

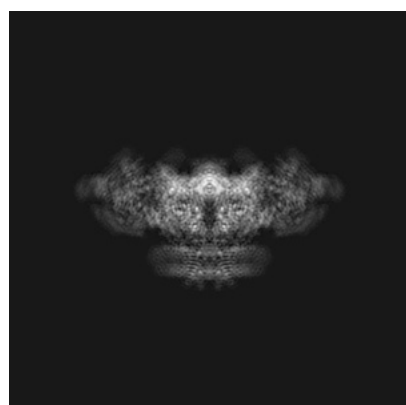
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8073. These allow visual inspection of the internal detail of the map and identification of artifacts.

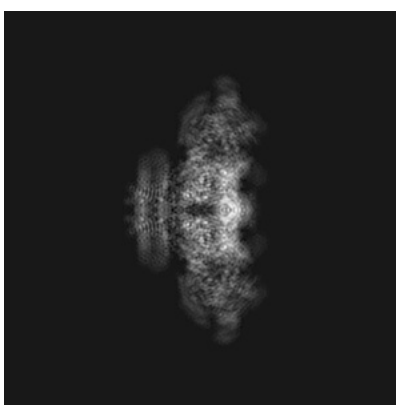
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

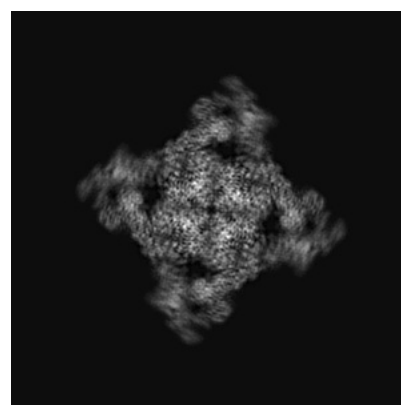
6.1.1 Primary map



X



Y



Z

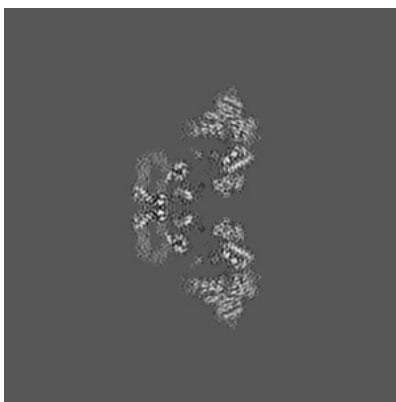
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

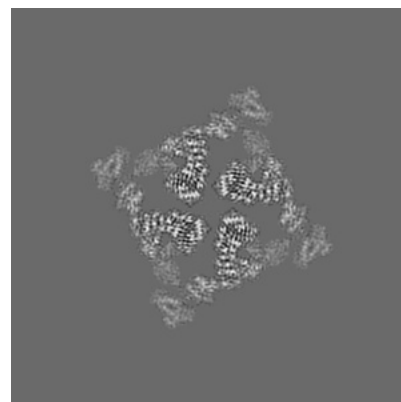
6.2.1 Primary map



X Index: 196



Y Index: 196



Z Index: 196

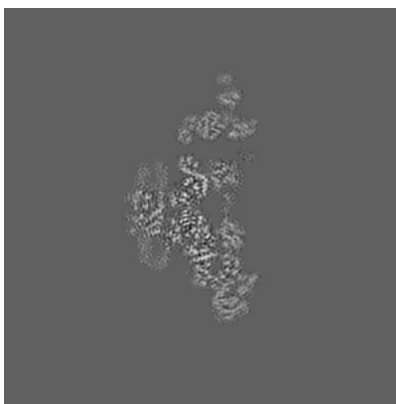
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

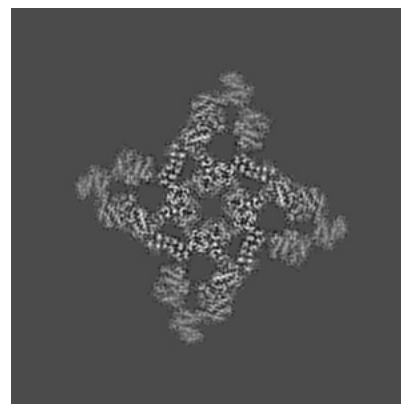
6.3.1 Primary map



X Index: 208



Y Index: 184

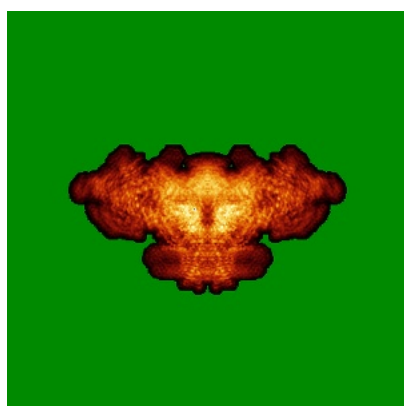


Z Index: 215

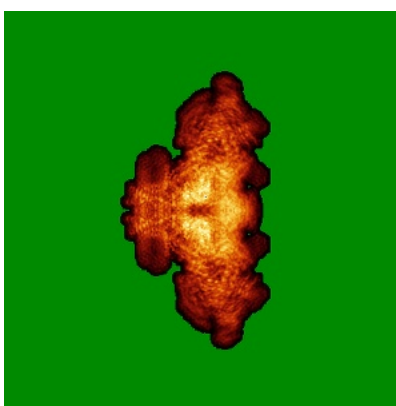
The images above show the largest variance slices of the map in three orthogonal directions.

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

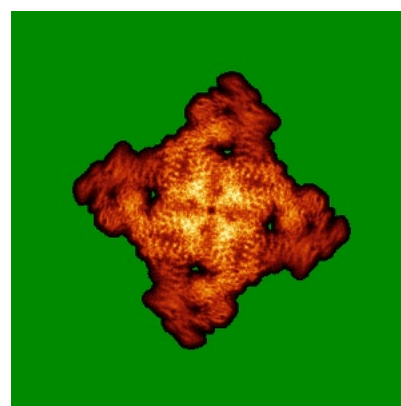
6.4.1 Primary map



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 0.0967. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

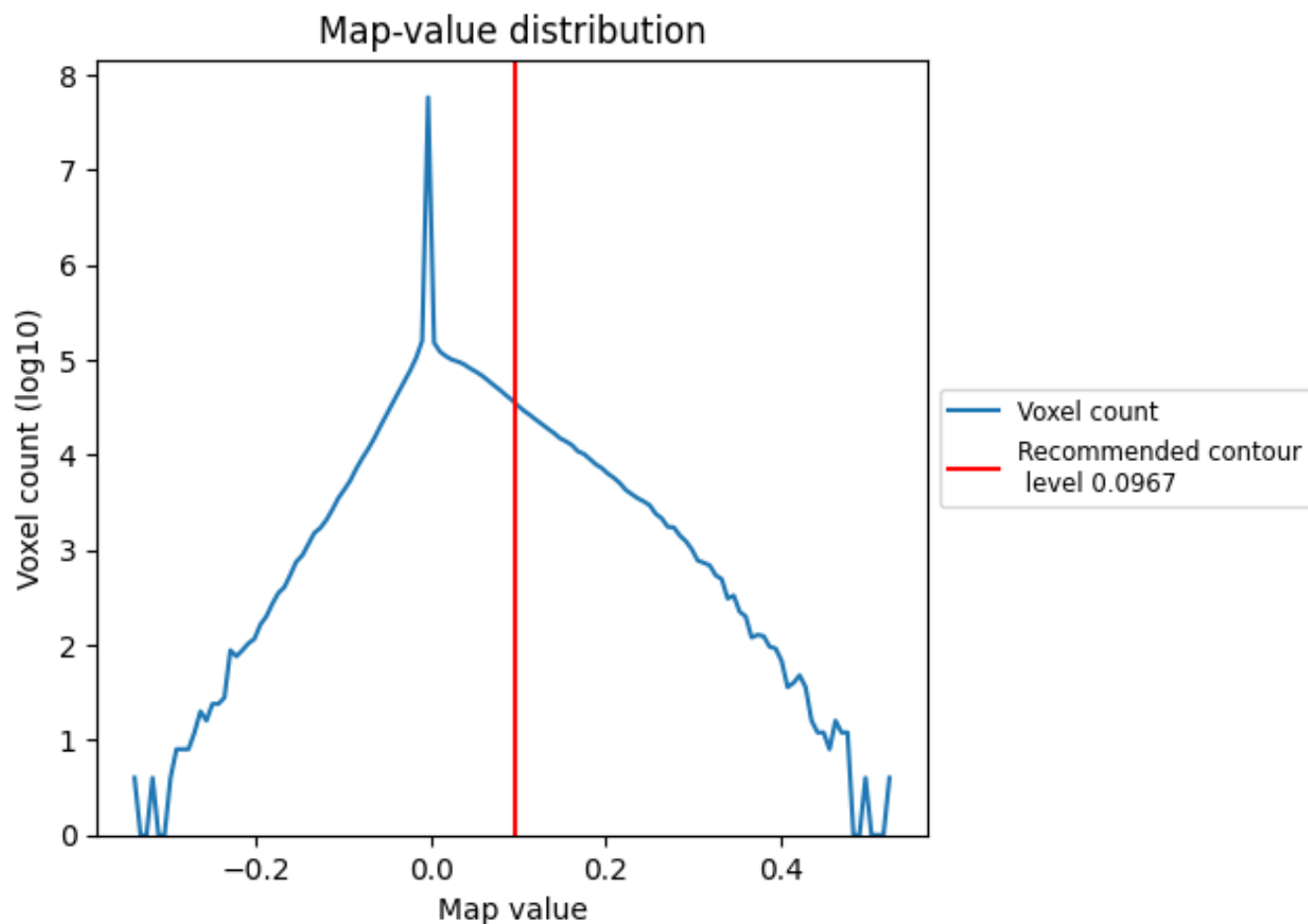
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

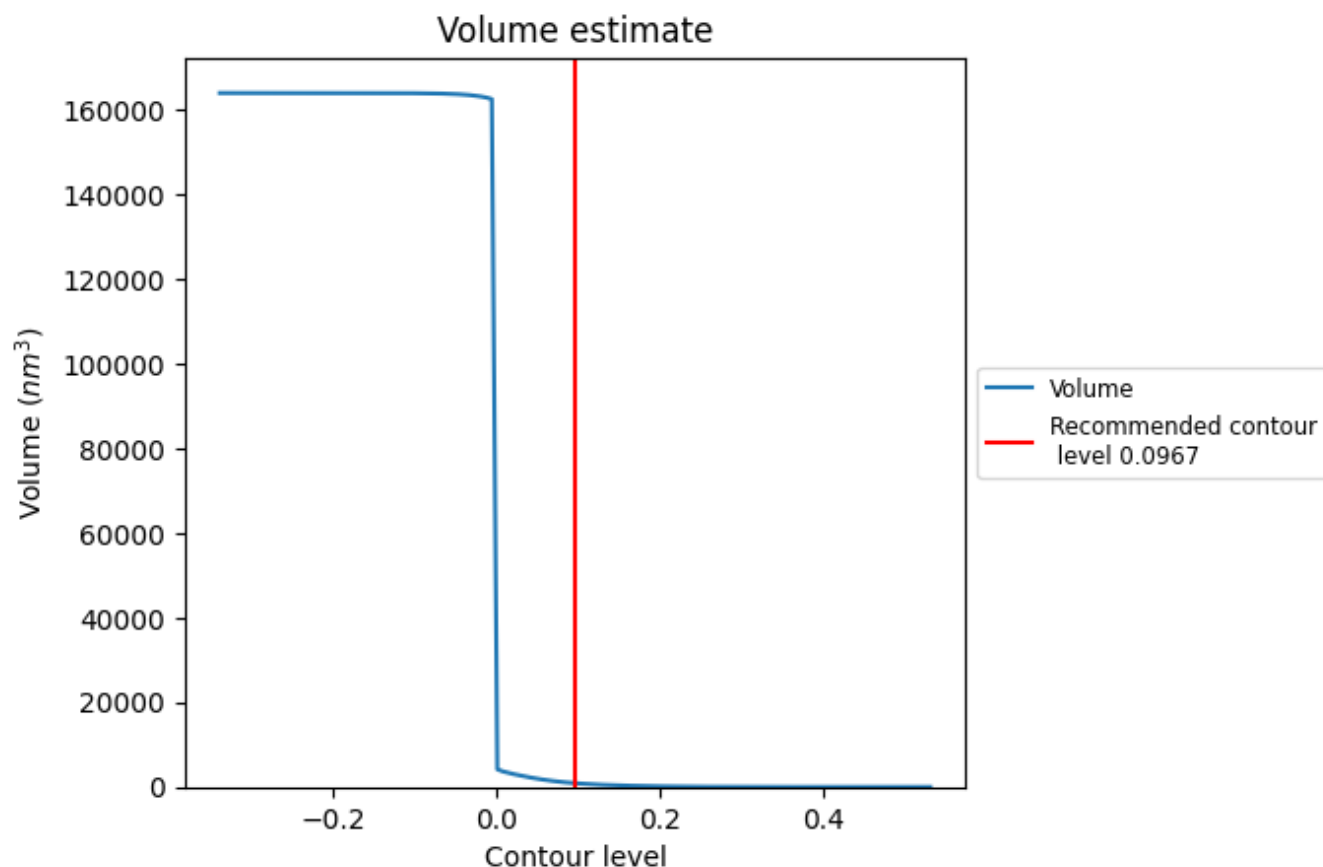
This section contains the results of statistical analysis of the map.

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.

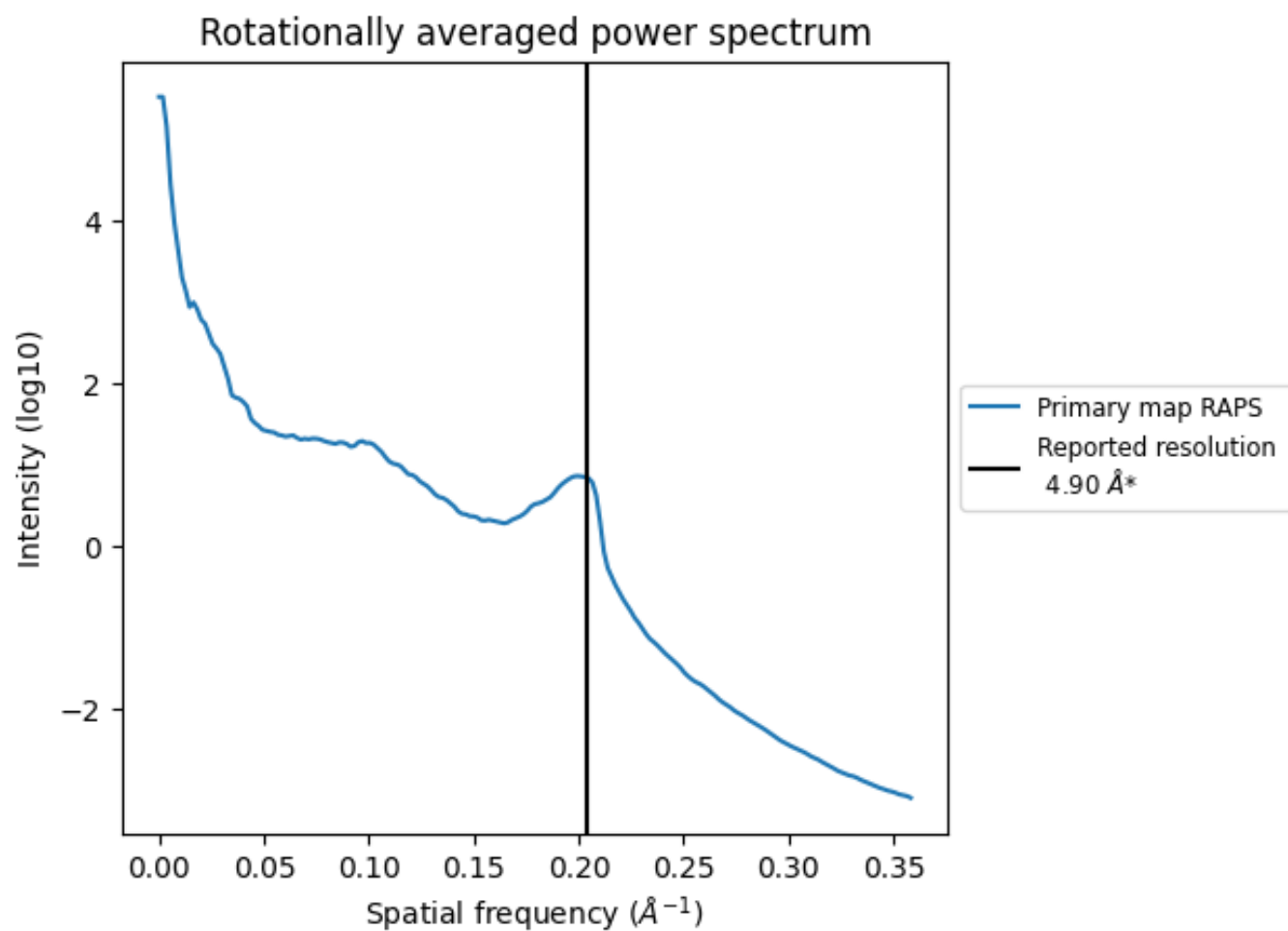
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 885 nm^3 ; this corresponds to an approximate mass of 799 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 0.204 $\text{\AA}^{-1}$

8 Fourier-Shell correlation ⓘ

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

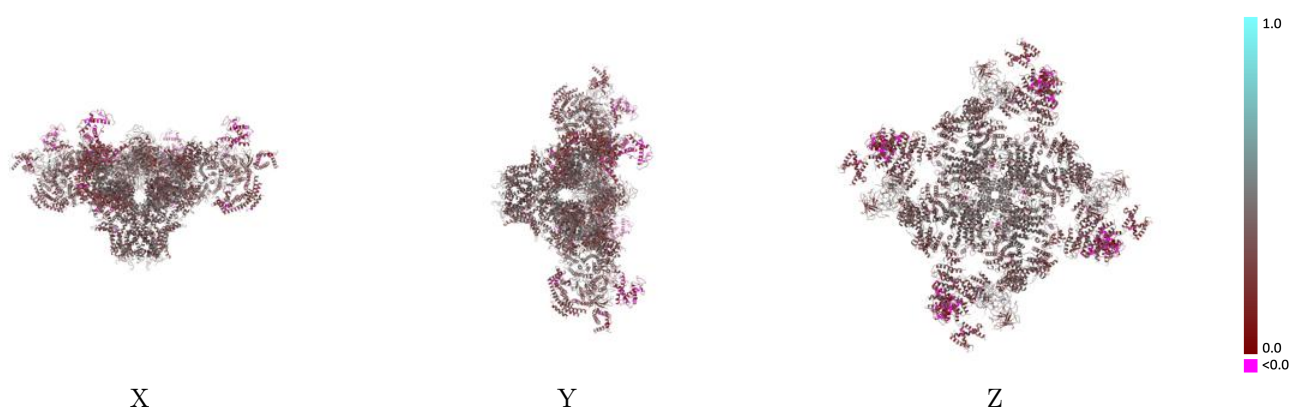
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8073 and PDB model 5J8V. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay [i](#)

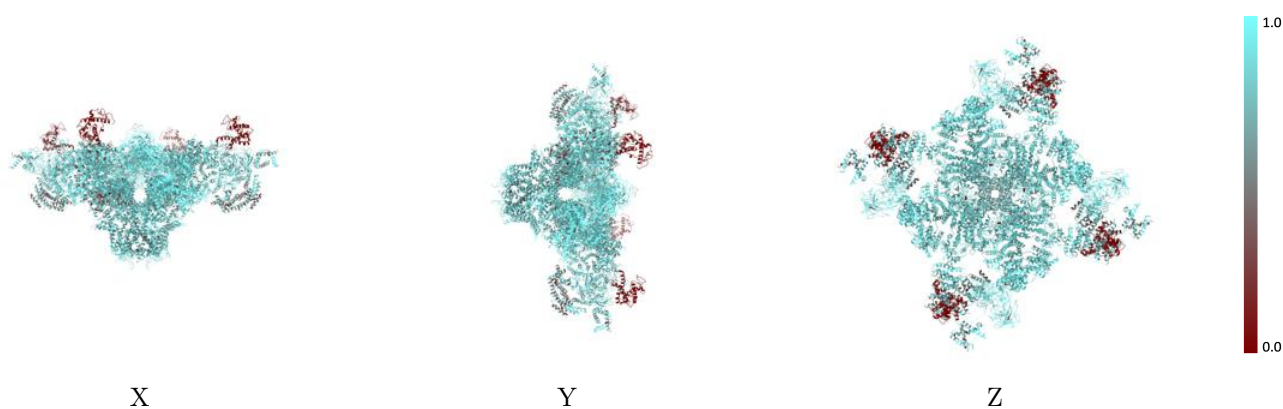
This section was not generated.

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



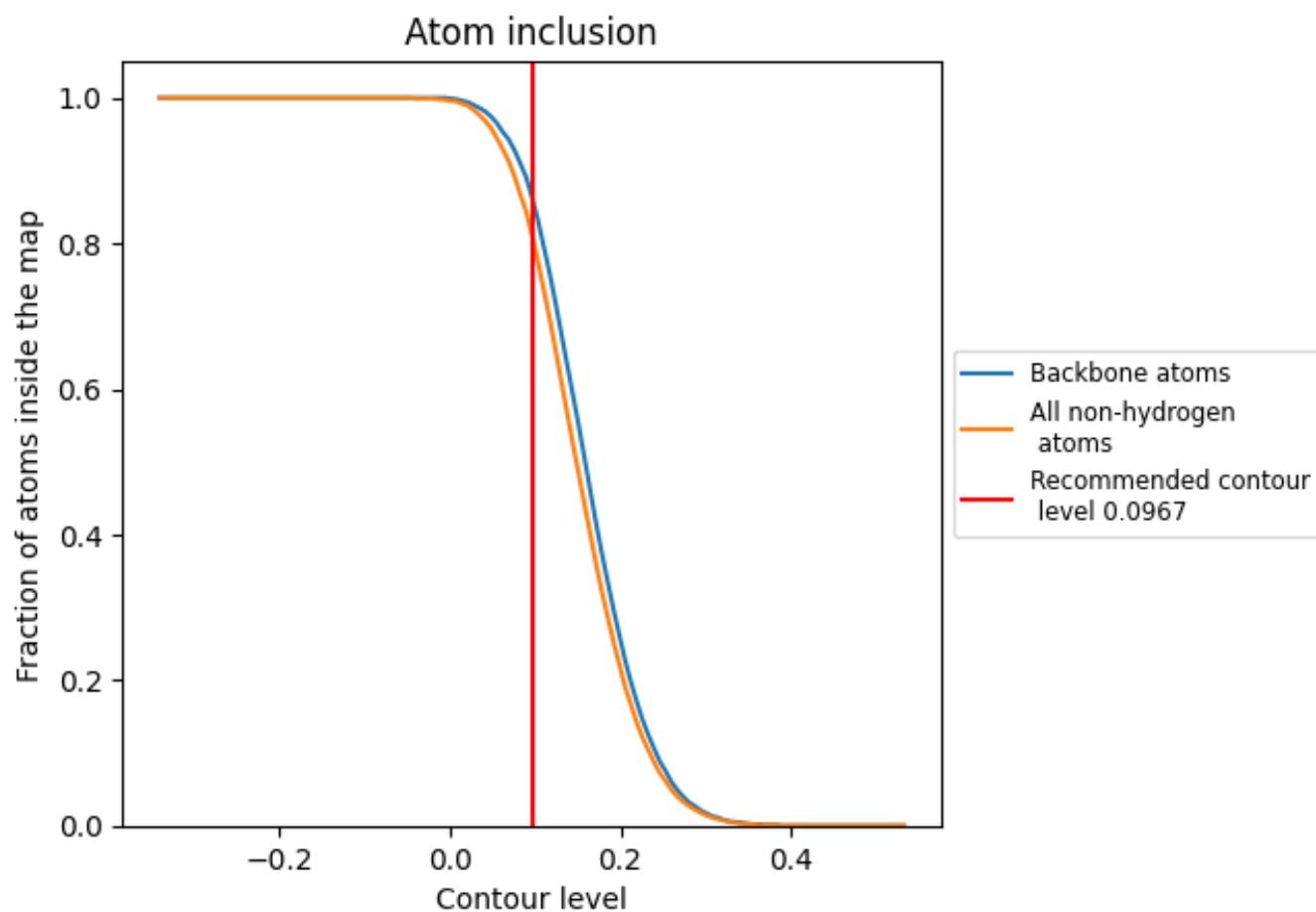
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0967).

9.4 Atom inclusion [i](#)



At the recommended contour level, 86% of all backbone atoms, 81% 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 (0.0967) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8100	0.3470
A	0.8090	0.3470
B	0.8100	0.3470
C	0.8100	0.3470
D	0.8090	0.3470

