



Full wwPDB EM Validation Report ⓘ

Mar 13, 2026 – 11:51 PM UTC

PDB ID : 7M6L / pdb_00007m6l
EMDB ID : EMD-23699
Title : High resolution structure of the membrane embedded skeletal muscle ryanodine receptor
Authors : Melville, Z.; Kim, K.; Clarke, O.B.; Marks, A.R.
Deposited on : 2021-03-25
Resolution : 3.98 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

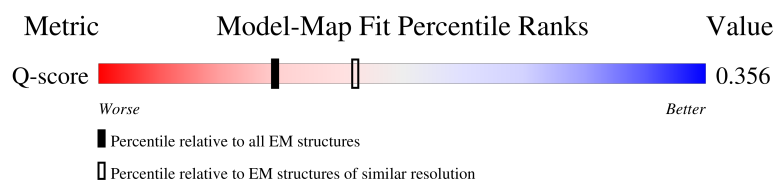
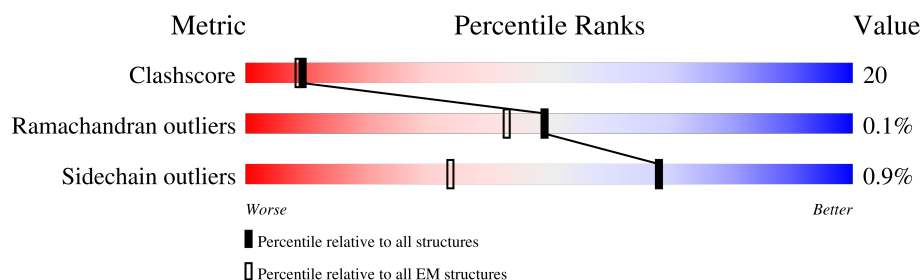
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.98 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.



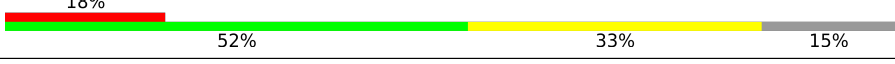
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	7512 (3.48 - 4.48)

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	F	108	
1	H	108	
1	J	108	
1	O	108	

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Mol	Chain	Length	Quality of chain
2	A	5037	
2	B	5037	
2	G	5037	
2	I	5037	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
6	CFF	A	5304	-	X	-	-
6	CFF	B	5304	-	X	-	-
6	CFF	G	5304	-	X	-	-
6	CFF	I	5304	-	X	-	-

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 140412 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 Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	F	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	J	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	O	107	Total	C	N	O	S	0	0
			818	516	144	154	4		

- Molecule 2 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	4299	Total	C	N	O	S	3	0
			34238	21819	5882	6302	235		
2	G	4299	Total	C	N	O	S	3	0
			34238	21819	5882	6302	235		
2	B	4299	Total	C	N	O	S	3	0
			34238	21819	5882	6302	235		
2	I	4299	Total	C	N	O	S	3	0
			34238	21819	5882	6302	235		

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃).



Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total 31	C 10	N 5	O 13	P 3	0
3	G	1	Total 31	C 10	N 5	O 13	P 3	0
3	B	1	Total 31	C 10	N 5	O 13	P 3	0
3	I	1	Total 31	C 10	N 5	O 13	P 3	0

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	AltConf
4	A	1	Total Ca 1 1	0
4	G	1	Total Ca 1 1	0
4	B	1	Total Ca 1 1	0
4	I	1	Total Ca 1 1	0

- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

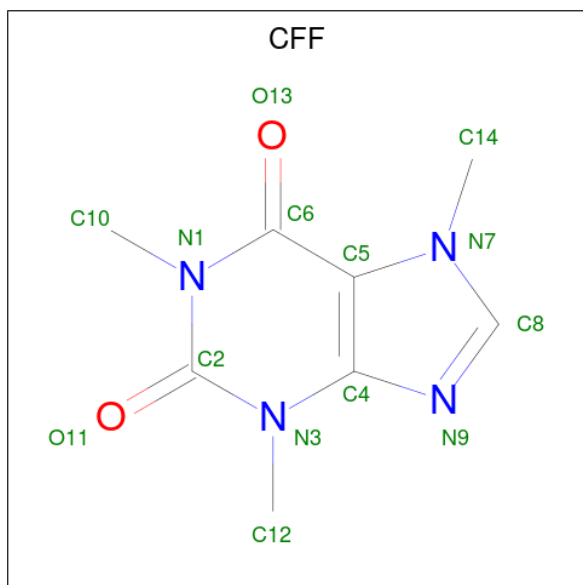
Mol	Chain	Residues	Atoms	AltConf
5	A	1	Total Zn 1 1	0

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Mol	Chain	Residues	Atoms		AltConf
5	G	1	Total	Zn	0
			1	1	
5	B	1	Total	Zn	0
			1	1	
5	I	1	Total	Zn	0
			1	1	

- Molecule 6 is CAFFEINE (CCD ID: CFF) (formula: $C_8H_{10}N_4O_2$).

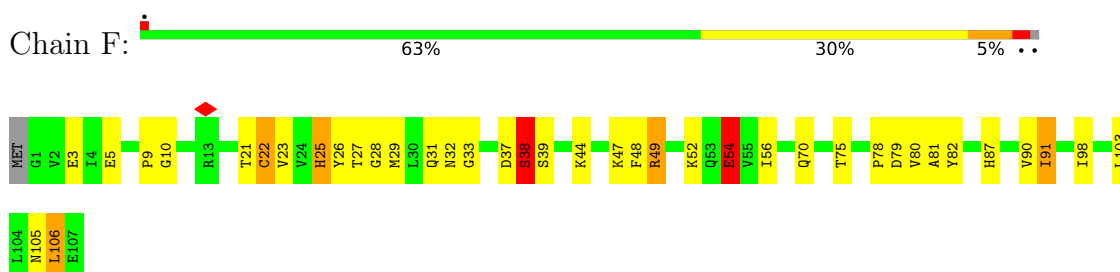


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	I	1	Total	C	N	O	0
			14	8	4	2	

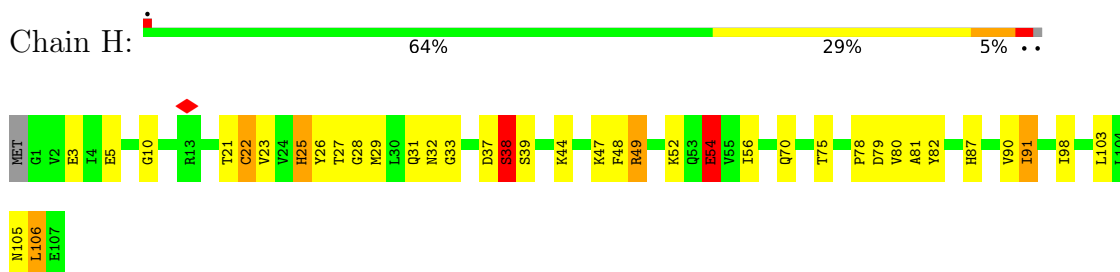
3 Residue-property plots [i](#)

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

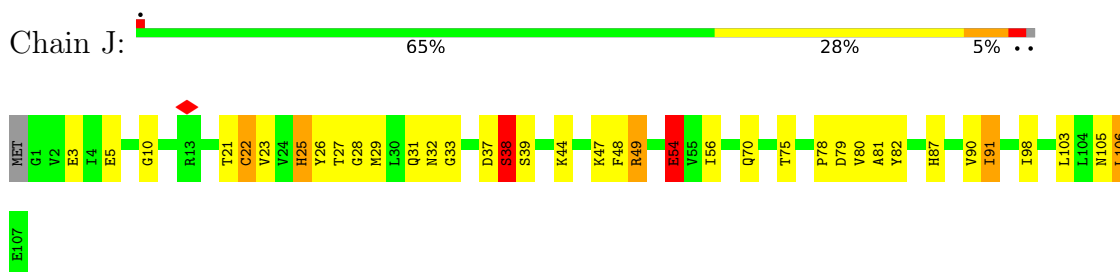
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



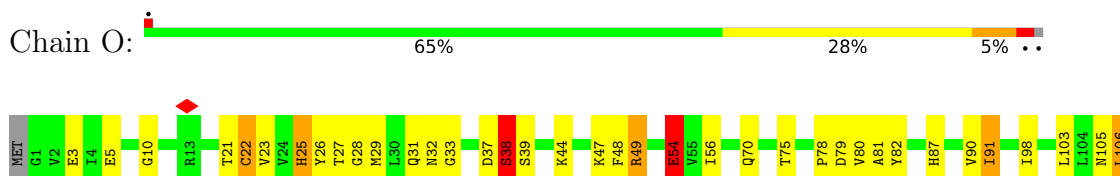
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B

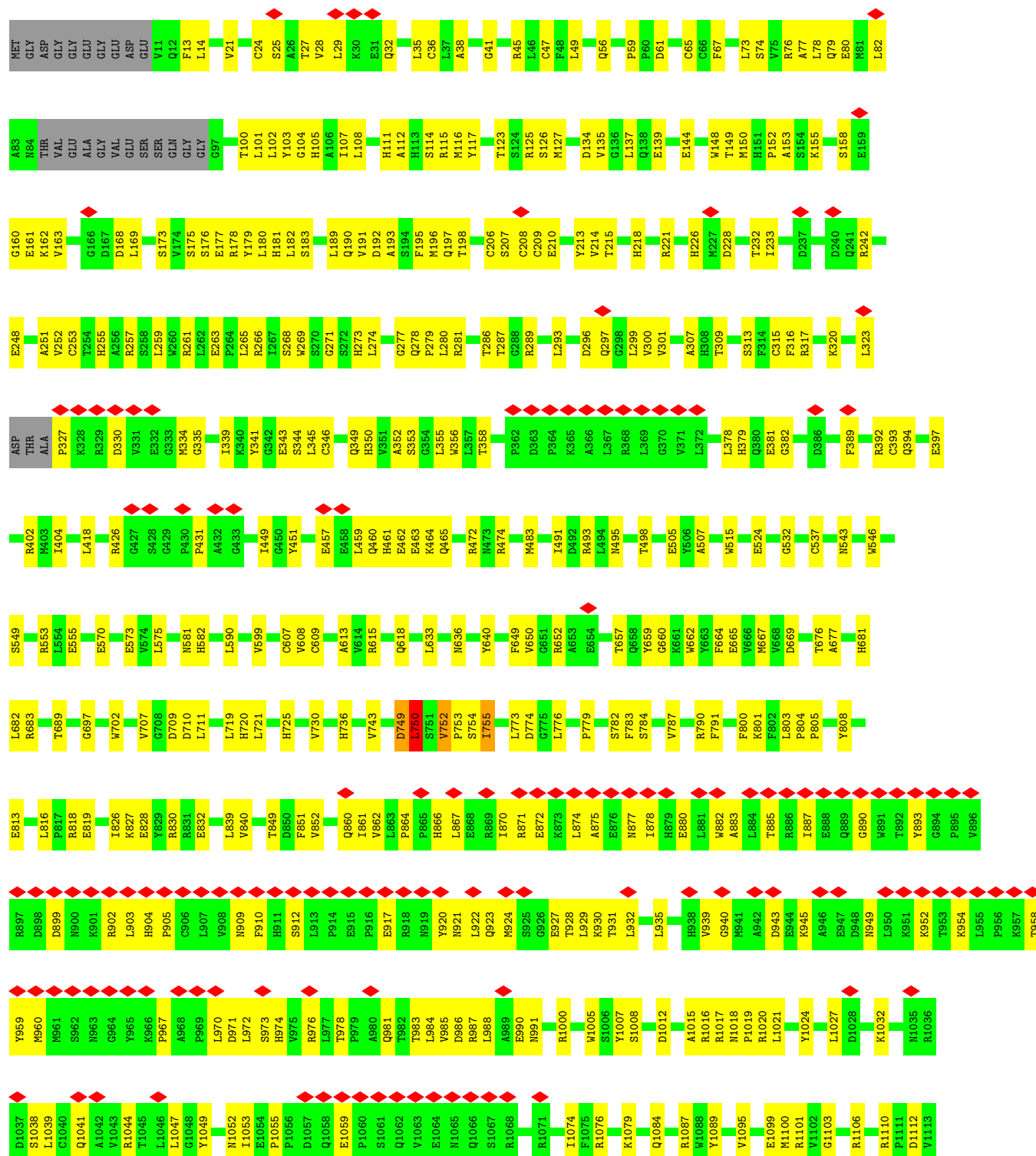


- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



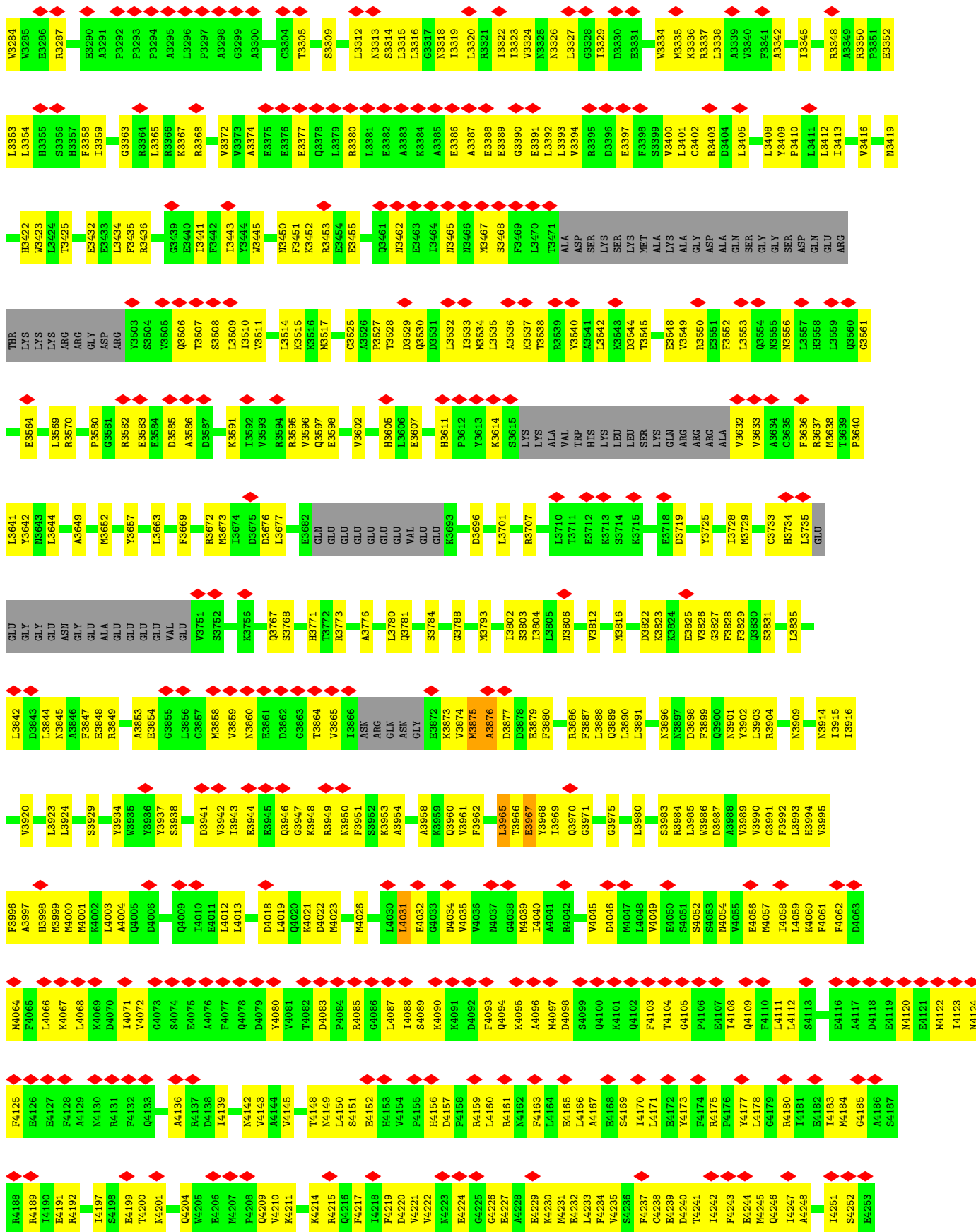
E107

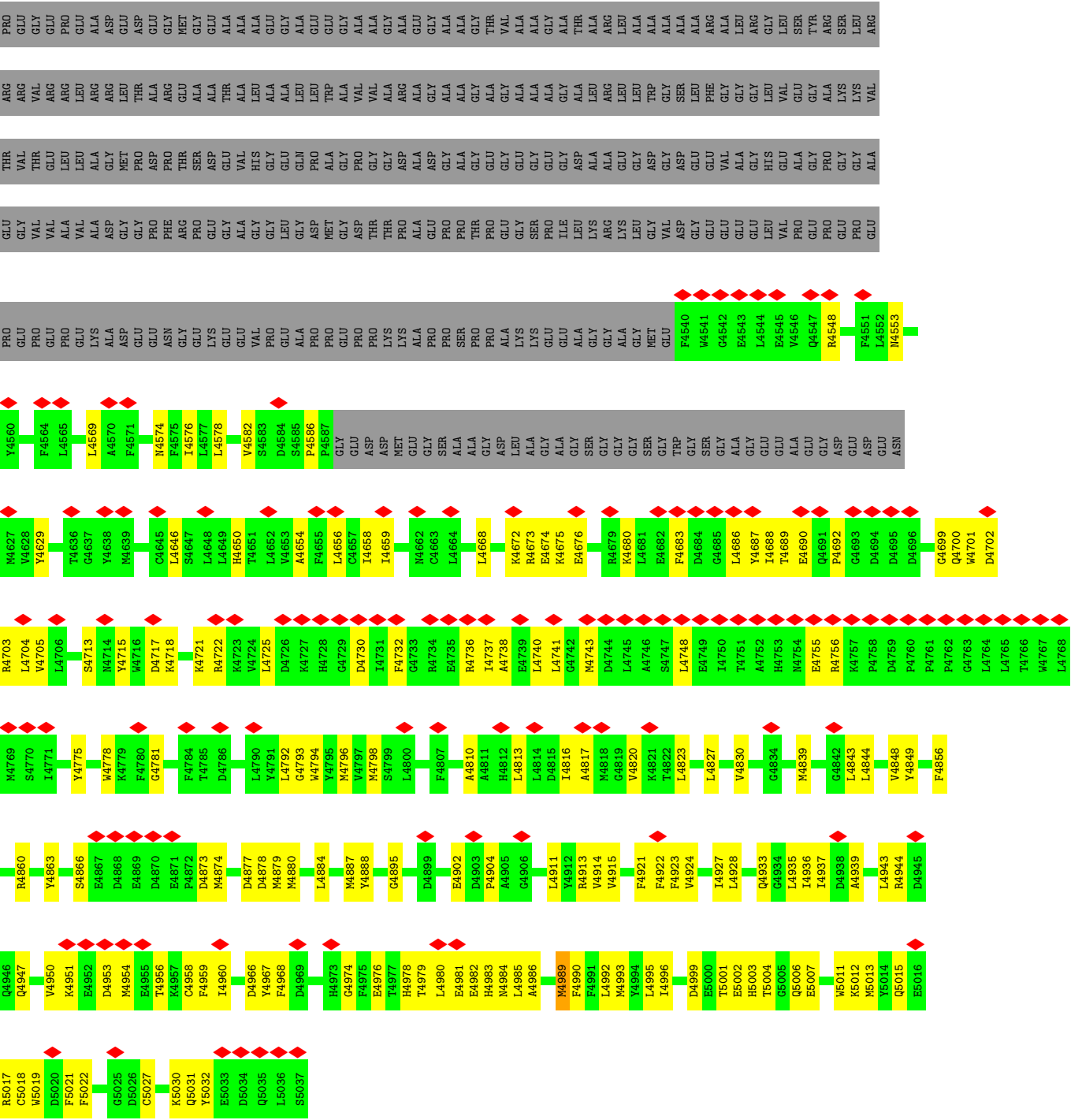
• Molecule 2: Ryanodine receptor 1



E1114	VAL	E1182	GLU	E1194	THR	E1200	GLN	E1202	GLN	E1203	LEU
L1115	PRO	E1183	VAL	L1194	PRO	E1201	ARG	L1201	THR		
G1116	GLY	E1184	THR	L1195	GLN	E1202	ARG	L1202	PRO		
		G1185	GLY	L1196	PRO	E1203	ASP	L1203	LEU		
Y1122	LEU	E1186	GLY	L1197	THR	E1204	ASP	L1204			
V1123	GLN	E1187	VAL	L1198	VAL	E1205	GLU	L1205			
F1124	PRO	E1188	VAL	L1199	VAL	E1206	GLU	L1206			
N1125	PRO	E1189	ALA	L1200	VAL	E1207	GLU	L1207			
G1126	ASP	E1190	ALA	L1201	VAL	E1208	GLU	L1208			
	ALA	E1191	ASP	L1202	VAL	E1209	GLU	L1209			
R1131	ASP	E1192	THR	L1203	VAL	E1210	GLU	L1210			
M1132	GLU	E1193	THR	L1204	VAL	E1211	GLU	L1211			
H1133	GLU	E1194	THR	L1205	VAL	E1212	GLU	L1212			
L1134	ALA	E1195	VAL	L1206	VAL	E1213	GLU	L1213			
G1135	ARG	E1196	VAL	L1207	VAL	E1214	GLU	L1214			
T1136	ALA	E1197	VAL	L1208	VAL	E1215	GLU	L1215			
S1137	ALA	E1198	VAL	L1209	VAL	E1216	GLU	L1216			
E1138	GLU	E1199	VAL	L1210	VAL	E1217	GLU	L1217			
F1139	ASP	E1200	VAL	L1211	VAL	E1218	GLU	L1218			
	PRO	E1201	VAL	L1212	VAL	E1219	GLU	L1219			
Q1144	PRO	E1202	VAL	L1213	VAL	E1220	GLU	L1220			
D1147	TYR	E1203	VAL	L1214	VAL	E1221	GLU	L1221			
V1148	ASN	E1204	VAL	L1215	VAL	E1222	GLU	L1222			
Y1149	LEU	E1205	VAL	L1216	VAL	E1223	GLU	L1223			
	ARG	E1206	VAL	L1217	VAL	E1224	GLU	L1224			
M1152	ARG	E1207	VAL	L1218	VAL	E1225	GLU	L1225			
T1153	SER	E1208	VAL	L1219	VAL	E1226	GLU	L1226			
D1154	MET	E1209	VAL	L1220	VAL	E1227	GLU	L1227			
L1155	MET	E1210	VAL	L1221	VAL	E1228	GLU	L1228			
S1156	GLY	E1211	VAL	L1222	VAL	E1229	GLU	L1229			
E1157	TRP	E1212	VAL	L1223	VAL	E1230	GLU	L1230			
N1158	GLY	E1213	VAL	L1224	VAL	E1231	GLU	L1231			
	GLY	E1214	VAL	L1225	VAL	E1232	GLU	L1232			
T1163	GLU	E1215	VAL	L1226	VAL	E1233	GLU	L1233			
L1164	GLU	E1216	VAL	L1227	VAL	E1234	GLU	L1234			
N1165	GLY	E1217	VAL	L1228	VAL	E1235	GLU	L1235			
	LYS	E1218	VAL	L1229	VAL	E1236	GLU	L1236			
L1169	GLY	E1219	VAL	L1230	VAL	E1237	GLU	L1237			
D1172	GLY	E1220	VAL	L1231	VAL	E1238	GLU	L1238			
S1173	THR	E1221	VAL	L1232	VAL	E1239	GLU	L1239			
G1174	LYS	E1222	VAL	L1233	VAL	E1240	GLU	L1240			
	ALA	E1223	VAL	L1234	VAL	E1241	GLU	L1241			
T1182	GLU	E1224	VAL	L1235	VAL	E1242	GLU	L1242			
E1183	GLY	E1225	VAL	L1236	VAL	E1243	GLU	L1243			
T1184	THR	E1226	VAL	L1237	VAL	E1244	GLU	L1244			
G1185	PRO	E1227	VAL	L1238	VAL	E1245	GLU	L1245			
D1186	GLY	E1228	VAL	L1239	VAL	E1246	GLU	L1246			
	GLY	E1229	VAL	L1240	VAL	E1247	GLU	L1247			
L1194	THR	E1230	VAL	L1241	VAL	E1248	GLU	L1248			
G1195	PRO	E1231	VAL	L1242	VAL	E1249	GLU	L1249			
P1196	GLN	E1232	VAL	L1243	VAL	E1250	GLU	L1250			
G1197	PRO	E1233	VAL	L1244	VAL	E1251	GLU	L1251			
Q1198	GLY	E1234	VAL	L1245	VAL	E1252	GLU	L1252			
V1199	GLY	E1235	VAL	L1246	VAL	E1253	GLU	L1253			
G1200	GLU	E1236	VAL	L1247	VAL	E1254	GLU	L1254			
H1201	ALA	E1237	VAL	L1248	VAL	E1255	GLU	L1255			
L1202	GLN	E1238	VAL	L1249	VAL	E1256	GLU	L1256			
N1203	PRO	E1239	VAL	L1250	VAL	E1257	GLU	L1257			
	LEU	E1240	VAL	L1251	VAL	E1258	GLU	L1258			
		E1241	VAL	L1252	VAL	E1259	GLU	L1259			
		E1242	VAL	L1253	VAL	E1260	GLU	L1260			
		E1243	VAL	L1254	VAL	E1261	GLU	L1261			
		E1244	VAL	L1255	VAL	E1262	GLU	L1262			
		E1245	VAL	L1256	VAL	E1263	GLU	L1263			
		E1246	VAL	L1257	VAL	E1264	GLU	L1264			
		E1247	VAL	L1258	VAL	E1265	GLU	L1265			
		E1248	VAL	L1259	VAL	E1266	GLU	L1266			
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		E1262	VAL	L1273	VAL	E1280	GLU	L1280			
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		E1270	VAL	L1281	VAL	E1288	GLU	L1288			
		E1271	VAL	L1282	VAL	E1289	GLU	L1289			
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		E1273	VAL	L1284	VAL	E1291	GLU	L1291			
		E1274	VAL	L1285	VAL	E1292	GLU	L1292			
		E1275	VAL	L1286	VAL	E1293	GLU	L1293			
		E1276	VAL	L1287	VAL	E1294	GLU	L1294			
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		E1279	VAL	L1290	VAL	E1297	GLU	L1297			
		E1280	VAL	L1291	VAL	E1298	GLU	L1298			
		E1281	VAL	L1292	VAL	E1299	GLU	L1299			
		E1282	VAL	L1293	VAL	E1300	GLU	L1300			
		E1283	VAL	L1294	VAL	E1301	GLU	L1301			
		E1284	VAL	L1295	VAL	E1302	GLU	L1302			
		E1285	VAL	L1296	VAL	E1303	GLU	L1303			
		E1286	VAL	L1297	VAL	E1304	GLU	L1304			
		E1287	VAL	L1298	VAL	E1305	GLU	L1305			
		E1288	VAL	L1299	VAL	E1306	GLU	L1306			
		E1289	VAL	L1300	VAL	E1307	GLU	L1307			
		E1290	VAL	L1301	VAL	E1308	GLU	L1308			
		E1291	VAL	L1302	VAL	E1309	GLU	L1309			
		E1292	VAL	L1303	VAL	E1310	GLU	L1310			
		E1293	VAL	L1304	VAL	E1311	GLU	L1311			
		E1294	VAL	L1305	VAL	E1312	GLU	L1312			
		E1295	VAL	L1306	VAL	E1313	GLU	L1313			
		E1296	VAL	L1307	VAL	E1314	GLU	L1314			
		E1297	VAL	L1308	VAL	E1315	GLU	L1315			
		E1298	VAL	L1309	VAL	E1316	GLU	L1316			
		E1299	VAL	L1310	VAL	E1317	GLU	L1317			
		E1300	VAL	L1311	VAL	E1318	GLU	L1318			
		E1301	VAL	L1312	VAL	E1319	GLU	L1319			
		E1302	VAL	L1313	VAL	E1320	GLU	L1320			
		E1303	VAL	L1314	VAL	E1321	GLU	L1321			
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		E1305	VAL	L1316	VAL	E1323	GLU	L1323			
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		E1308	VAL	L1319	VAL	E1326	GLU	L1326			
		E1309	VAL	L1320	VAL	E1327	GLU	L1327			
		E1310	VAL	L1321	VAL	E1328	GLU	L1328			
		E1311	VAL	L1322	VAL	E1329	GLU	L1329			
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		E1313	VAL	L1324	VAL	E1331	GLU	L1331			
		E1314	VAL	L1325	VAL	E1332	GLU	L1332			
		E1315	VAL	L1326	VAL	E1333	GLU	L1333			
		E1316	VAL	L1327	VAL	E1334	GLU	L1334			
		E1317	VAL	L1328	VAL	E1335	GLU	L1335			
		E1318	VAL	L1329	VAL	E1336	GLU	L1336			
		E1319	VAL	L1330	VAL	E1337	GLU	L1337			
		E1320	VAL	L1331	VAL	E1338	GLU	L1338			
		E1321	VAL	L1332	VAL	E1339	GLU	L1339			
		E1322	VAL	L1333	VAL	E1340	GLU	L1340			
		E1323	VAL	L1334	VAL	E1341	GLU	L1341			
		E1324	VAL	L1335	VAL	E1342	GLU	L1342			
		E1325	VAL	L1336	VAL	E1343	GLU	L1343			
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		E1327	VAL	L1338	VAL	E1345	GLU	L1345			

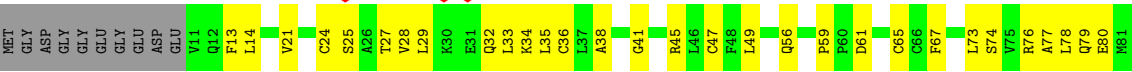






• Molecule 2: Ryanodine receptor 1

Chain G:

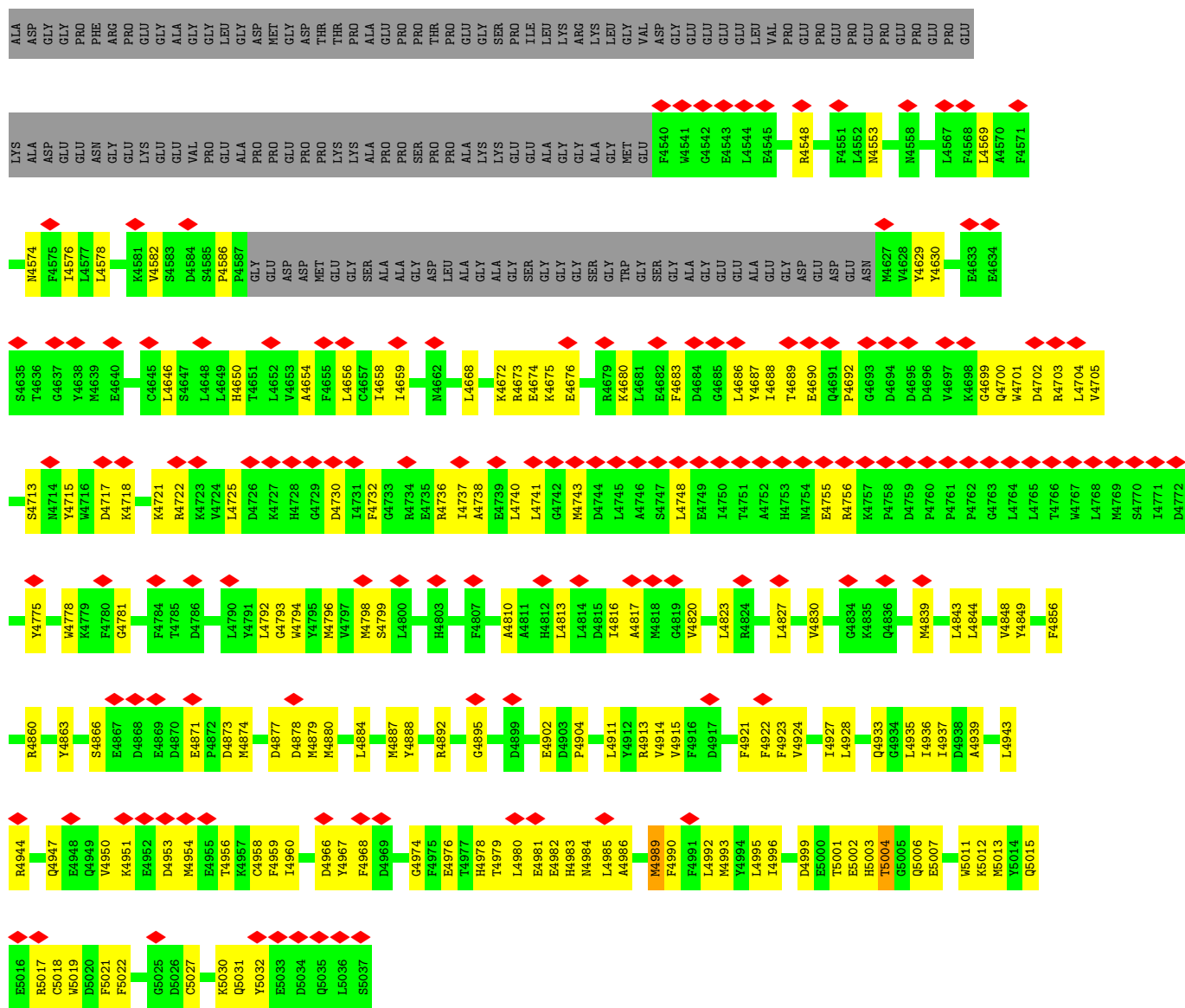








ALA	ARG	ALA	S4196	R4131	I4071	H3998	L3844	GLU	L3641	L3575	ASP	E3433
GLY	ARG	ASP	E4199	F4132	V4072	K3999	N3845	GLU	Y3642	Y3576	ARG	L3434
GLY	LEU	GLY	T4200	Q4133	G4073	M4000	A3846	GLY	N3643	R3577		F3435
PRO	ALA	ASP	N4201	Q4133	S4074	N4001	F3847	GLY	L3644	G3578		R3436
THR	ARG	GLY	R4202	A4136	S4075	K4002	R3848	ASN	A3649	L3579		G3439
GLY	MET	GLY	A4203	R4137	A4075	L4003	A3853	GLY	M3652	G3581		E3440
GLY	GLY	GLY	Q4204	D4138	F4077	A4004	E3854	ALA	Y3657	R3582		I3441
ALA	GLY	ALA	V4205	I4139	Q4078	L4012	G3855	GLU	G3581	G3582		F3442
ALA	ALA	ALA	E4206		D4079	L4013	L3856	GLU	L3663	E3584		I3443
ALA	ALA	ALA	Q4209	M4142	Y4080	K4014	G3857	GLU	G3857	D3585		V3444
ALA	ALA	ALA	V4210	V4143	E4015	K3940	M3858	GLU	A3586	V3511		K3445
ALA	ALA	ALA	K4211	A4144	D4081	D3941	V3859	VAL	S3668			N3450
ALA	ALA	ALA		V4145	V4082	L4018	V3859	GLU	F3669	D3587		F3451
ALA	ALA	ALA	R4214	T4148	D4083	L4019	N3860		R3672	K3591		K3451
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ALA	ALA	ALA	G4216	L4150	R4085	D4021	E3944		I3674	I3592		R3453
ALA	ALA	ALA	F4217	I4151	G4086	D4022	E3945		D3675	V3593		E3454
ALA	ALA	ALA	I4218	S4151		M4023	G3946		L3677	R3594		E3455
ALA	ALA	ALA	E4219	E4152	L4087		G3947		D3676	R3595		
ALA	ALA	ALA	D4220	H4153	S4089		K3948		L3677	V3596		
ALA	ALA	ALA	V4221		L4088		R3949		D3677	Q3597		
ALA	ALA	ALA	D4222		K4090		F3951		E3682	E3598		
ALA	ALA	ALA	M4223	H4156	D4091	L4030	ASN		GLN	V3602		
ALA	ALA	ALA	E4224	D4157	K4092	L4031	ARG		GLU			
ALA	ALA	ALA	R4225	F4158	D4093	E4032	GLN		GLU			
ALA	ALA	ALA	G4226	L4159	F4093	G4033	GLY		GLU			
ALA	ALA	ALA	D4227	L4160	Q4094	N4034	ASN		GLU			
ALA	ALA	ALA	E4228	R4161		V4035	GLY		GLU			
ALA	ALA	ALA	A4229	M4162	K4095	V4036	E3872		GLU			
ALA	GLY	GLY	E4230	F4163	A4096	N4037	K3874		VAL			
ASP	GLY	GLY	K4230	L4164	M4097	G4038	M3875		GLU			
ALA	LEU	ALA	M4231	E4165	D4098	M4039	A3876		GLU			
ALA	ARG	ALA	E4232	L4166	S4099	L4040	D3777		GLU			
ALA	LEU	LEU	D4233	A4167	Q4100	V4045	K3878		GLU			
ALA	LEU	ALA	F4234	E4168	K4101	D4046	E3879		GLU			
ASP	TRP	ALA	V4235	S4169	Q4102		F3966		D3696			
GLY	GLY	ALA	S4236	L4170	F4103	V4049	L3968		L3701			
ALA	ALA	ALA	F4237	E4172	T4104	E4050	Q3970		LYS			
ALA	LEU	ALA	C4238	Y4173	F4103	S4051	G3971		LYS			
GLY	GLY	ARG	E4239	F4173	G4105	S4052	G3971		ALA			
ALA	GLY	ALA	D4240	R4174	G4105	S4053	G3975		VAL			
ALA	GLY	GLY	T4241	F4175	P4106	M4054	G3975		TRP			
HIS	LEU	GLY	I4242	R4176	A4107	M4054	L3980		HIS			
GLY	GLY	GLY	F4243	F4176	E4108	V4055	L3980		LYS			
ALA	VAL	LEU	F4244	Y4177	E4056	E4056	L3986		TRP			
ALA	GLY	LEU	E4245	L4178	M4057	M4057	N3896		LYS			
GLY	GLY	GLY	M4245	G4179	F4110	K3984	D3897		LEU			
GLY	GLY	TTR	Q4246	R4180	L4111	L4058	D3898		SER			
PRO	ALA	ARG	I4247	I4181	L4112	L4059	F3899		LYS			
GLY	LYS	SER	A4248	L4181	L4112	K4060	W3986		GLN			
ALA	VAL	LEU	E4249	E4182	S4113	F4061	Q3901		ARG			
ALA	VAL	ARG	Q4250	I4183	C4114	F4062	N3901		ARG			
GLY	ARG	ARG	M4184	A4184	S4115	D4063	V3902		ARG			
GLY	VAL	ARG	E4251	G4185	E4116	F4065	V3990		ALA			
VAL	VAL	VAL	S4252	A4186	A4117	M4064	G3991		VAL			
ALA	LEU	ARG	E4253	S4187	D4118	F4065	F3992		THR			
VAL	LEU	LEU		R4188	E4119	L4066	H3994		LYS			
				R4189	M4120	K4067	V3995		LYS			
				I4190	E4121	L4068	F3996		ARG			
				E4191	M4122	K4069	A3997		LYS			
				R4192	I4123	D4070			ARG			
					N4124				GLY			
				I4197	F4125				ARG			
					E4126				GLY			
					E4127				ARG			
					F4128				GLY			
					A4129				ARG			
					N4130				GLY			
												</



• Molecule 2: Ryanodine receptor 1

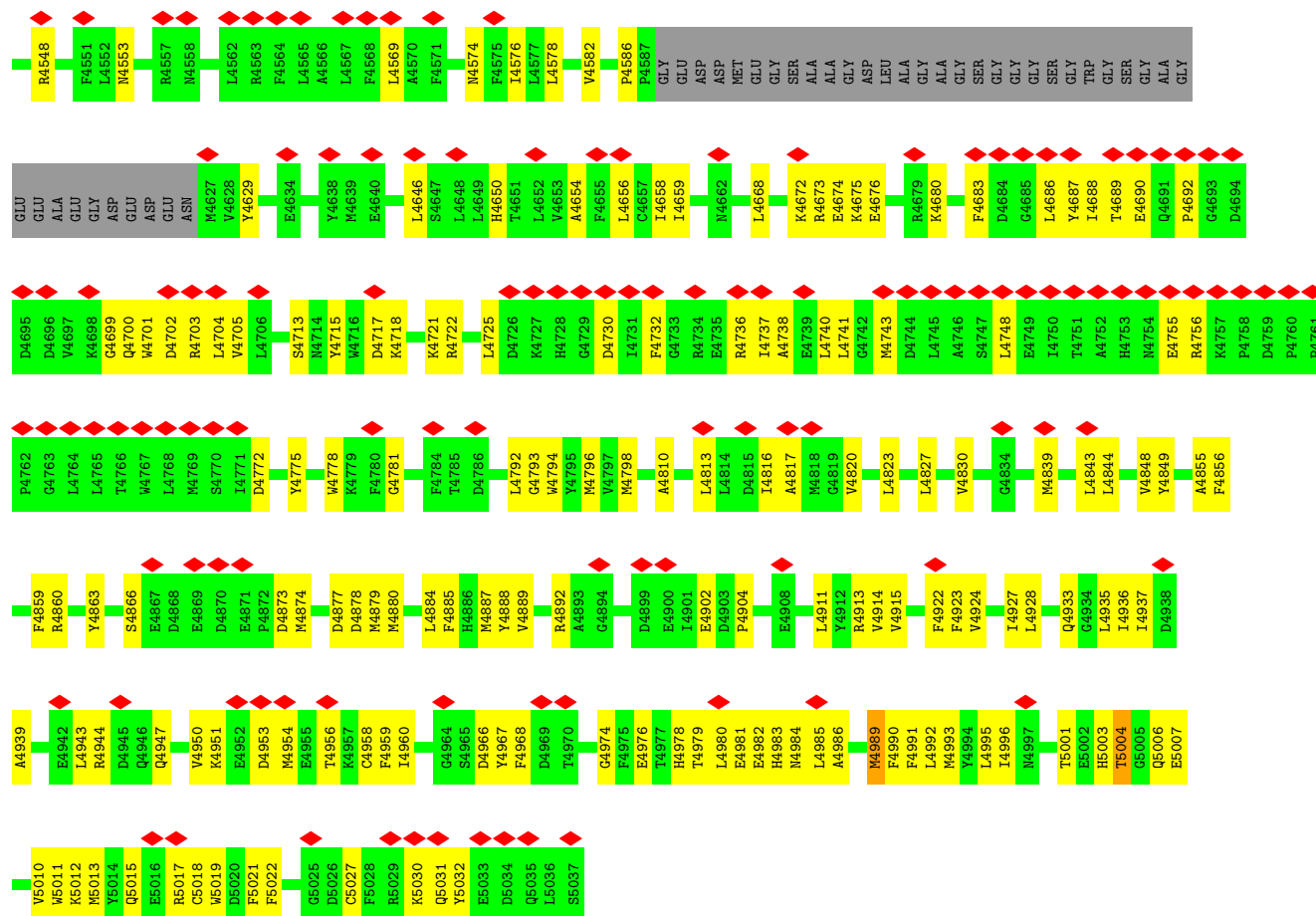




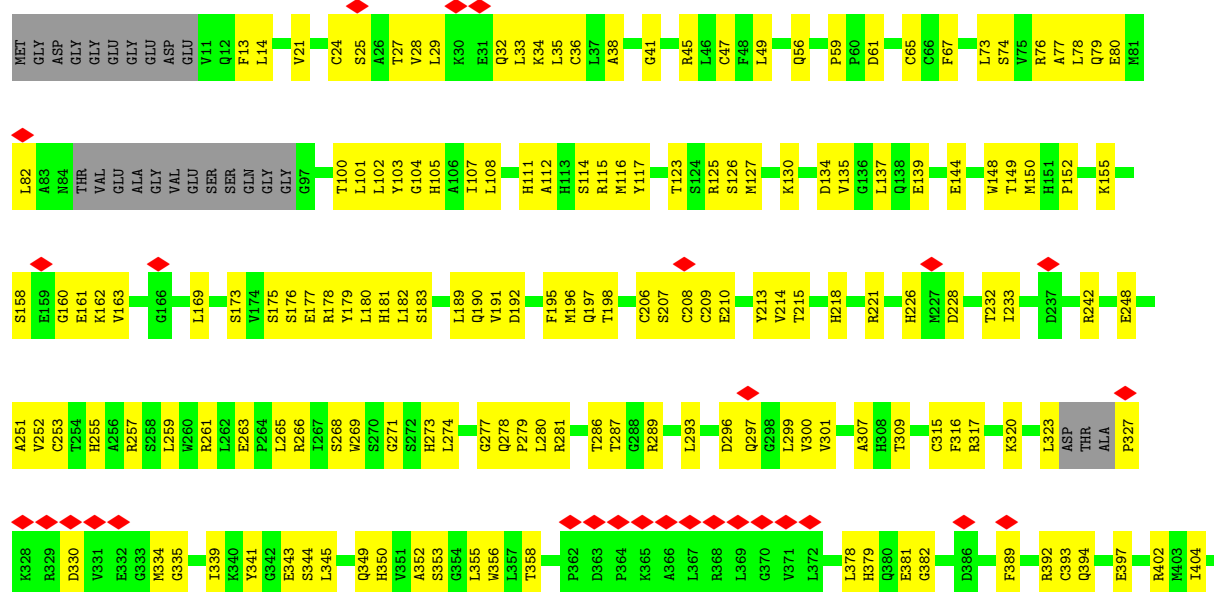
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A2557	V2558	L2559	P2560	L2561	L2562	T2563	C2564	C2565	F2569	A2570	R2575	A2576	T2577	M2578	V2579	D2580	S2581	L2582	L2583	H2584	T2585	L2588	L2589	S2590	R2591	C2592	L2593	S2594	L2595	T2596	Q2599	R2600	D2601	V2602	L2603	E2604	L2605	C2606	L2607	M2608	L2609	C2610	R2612	Y2613	L2614	R2615	P2616	S2617	M2618	L2619	Q2620	H2621	L2622	L2623																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
V2486	Q2487	P2488	K2489	M2490	S2493	F2494	V2495	P2496	D2497	H2498	K2499	A2500	S2501	M2502	L2503	L2504	F2505	R2508	V2509	Y2510	G2511	L2512	E2513	N2514	Q2515	L2516	F2517	L2518	L2519	H2520	V2521	L2522	D2523	V2524	G2525	F2526	L2527	P2528	D2529	M2530	R2531	A2534	S2535	L2536	D2537	T2538	F2541	S2542	E2545	Y2553	L2554	C2555	L2556																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
GLU	GLU	N2414	R2415	V2416	H2417	L2418	G2419	I2422	M2423	L2430	D2431	L2432	L2433	G2434	R2435	P2438	E2439	I2443	K2447	G2448	E2449	A2450	L2451	L2452	L2453	R2454	L2457	R2458	L2460	V2461	P2462	L2463	D2464	L2465	L2466	V2467	G2468	L2469	I2470	L2474	Q2475	L2476	P2477	L2478	G2480	K2481	D2482	G2483	A2484	L2485																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
R2241	L2242	S2243	R2244	Q2245	N2246	Q2247	M2250	Y2256	S2261	GLY	ILE	GLY	LEU	GLY	MET	Q2268	G2269	S2270	L2273	A2277	N2284	E2285	L2286	A2287	H2288	A2289	L2290	D2294	L2295	E2296	K2297	V2298	S2300	Y2301	L2302	A2303	G2304	S2309	M2312	L2313	L2314	Y2318	N2324	G2328	Y2331																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
R2163	S2164	L2165	V2168	Q2169	M2170	E2174	E2175	L2176	L2177	T2182	L2185	M2186	K2189	V2190	F2191	P2195	M2198	R2199	A2200	L2201	G2202	H2203	M2204	E2205	T2206	V2207	M2211	V2212	G2216	GLY	GLY	M2120	F2121	Y2128	L2138	P2139	R2140	T2144	E2150	D2151	T2152	S2153	S2154	L2155	L2159																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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GLU	GLU	GLU	LVS	GLU	ASP	ALA	GLU	LVS	GLU	GLU	GLU	GLU	GLY	GLU	LVS	ASP	LEU	GLU	LVS	E1924	G1925	L1926	L1927	E1867	V1870	T1871	L1872	GLU	GLU	L1942	E1963	V1966	N1972	Q1973	R1974	Y1977	A1978	L1979	L1980	M1981	R1982	A1983	THR	SER	LEU	SER	ARG	ARG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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LYS	L3514	H3355	R3287	Y3219	F3152	R3078	Y3009	GLY	E2880	E2920	E2760	K2700	K2699
ARG	L3424	S3356	E3290	T3220	D3155	V3080	F3010	LEU	N2881	W2821	K2701	L2703	C2702
GLY	T3425	H3357	E3291	T3221	V3156	M3081	T3011	ASP	Y2882	T2822	T2761	C2702	C2701
ASP	E3432	F3358	P3292	R3225	V3157	M3082	N3012	MET	H2883	T2823	T2762	L2703	L2703
GLY	E3433	P3293	P3293	E3226	I3158	S3083	H3013	GLU	N2884	E2824	H2763	L2703	L2703
ARG	L3434	P3294	P3294	R3227	L3159	G3084	C3014	LEU	T2885	K2825	K2764	L2706	L2706
ASP	F3435	A3295	A3295	A3228	D3160	K3089	Y3016	ASP	W2886	A2826	W2766	A2707	A2707
ASP	R3436	L3366	L3366	L3229	V3161	A3090	F3017	THR	G2887	E2827	A2767	A2709	A2709
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GLY	E3375	P3302	P3302	E3238	C3170	E3098	G3026	A2956	E2893	THR	N2773	N2773	N2773
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GLY	L3379	L3175	L3175	D3242	S3174	I3103	G3029	L2960	K2897	THR	Y2777	Y2777	Y2777
GLY	L3380	G3176	G3176	P3244	L3175	E3104	N3033	L2963	K2897	ARG	Y2778	Y2778	Y2778
GLY	L3381	T3177	T3177	V3245	G3176	K3105	K3034	L2964	G2898	LYS	G2778	G2778	G2778
GLY	E3382	T3178	T3178	V3245	M3106	M3106	E3035	L2965	G2899	ILE	E2779	E2779	E2779
GLY	A3383	K3179	K3179	L3246	V3107	E3108	E3036	R2965	G2900	SER	N2780	N2780	N2780
GLY	K3384	N3180	N3180	L3249	E3109	E3108	E3037	W2966	G2901	GLN	A2723	A2723	A2723
GLY	A3385	L3181	L3181	M3250	N3180	N3109	E3038	M2967	T2901	THR	E2724	E2724	E2724
GLY	E3386	Y3182	Y3182	A3251	L3110	L3110	L3042	D2968	H2902	ALA	D2782	D2782	D2782
GLY	A3387	V3183	V3183	D3252	R3111	R3111	L3043	L2969	P2903	GLN	E2783	E2783	E2783
GLY	E3388	E3184	E3184	I3253	L3112	G3113	F3043	S2970	L2904	THR	E2784	E2784	E2784
GLY	E3389	K3185	K3185	I3253	LYS	G3113	G3044	Q2971	L2905	THR	L2785	L2785	L2785
GLY	E3390	L3186	L3186	A3257	VAL	G3113	G3045	F2972	L2906	ASP	K2786	K2786	K2786
GLY	R3257	R3187	R3187	E3258	GLN	GLN	L3046	A2975	V2907	PRO	T2787	T2787	T2787
GLY	A3257	R3187	R3187	E3258	ALA	ALA	A3047	A2975	Y2908	GLY	H2788	H2788	H2788
GLY	R3258	R3187	R3187	E3258	GLN	GLN	A3048	H2976	D2909	GLY	P2789	P2789	P2789
GLY	R3258	R3187	R3187	E3258	ARG	ARG	L3049	L2977	L2910	GLY	M2790	M2790	M2790
GLY	R3258	R3187	R3187	E3258	THR	THR	V3050	L2977	T2911	GLY	D2734	D2734	D2734
GLY	R3258	R3187	R3187	E3258	THR	THR	R3053	V2980	L2911	GLY	D2735	D2735	D2735
GLY	R3258	R3187	R3187	E3258	VAL	VAL	V3054	V2981	T2912	GLY	D2736	D2736	D2736
GLY	R3258	R3187	R3187	E3258	K3123	K3123	S3055	S2982	A2913	GLY	P2737	P2737	P2737
GLY	R3258	R3187	R3187	E3258	G3124	G3124	L3056	S2983	P2793	GLY	R2738	R2738	R2738
GLY	R3258	R3187	R3187	E3258	G3124	G3124	F3057	G2984	K2914	GLY	P2739	P2739	P2739
GLY	R3258	R3187	R3187	E3258	Y3131	Y3131	G3058	R2985	E2915	GLY	W2740	W2740	W2740
GLY	R3258	R3187	R3187	E3258	T3132	T3132	T3059	V2986	K2916	GLY	E2741	E2741	E2741
GLY	R3258	R3187	R3187	E3258	L3136	L3136	D3060	E2987	A2917	GLY	T2742	T2742	T2742
GLY	R3258	R3187	R3187	E3258	P3137	P3137	A3061	K2988	R2918	GLY	L2743	L2743	L2743
GLY	R3258	R3187	R3187	E3258	P3138	P3138	V3065	H2991	D2919	GLY	N2744	N2744	N2744
GLY	R3258	R3187	R3187	E3258	T3141	T3141	N3066	H2991	K2920	GLY	W2745	W2745	W2745
GLY	R3258	R3187	R3187	E3258	T3142	T3142	C3067	E2992	E2921	GLY	L2746	L2746	L2746
GLY	R3258	R3187	R3187	E3258	L3143	L3143	H3068	Q2993	K2922	GLY	K2800	K2800	K2800
GLY	R3258	R3187	R3187	E3258	F3144	F3144	H3069	E2994	E2923	GLY	K2802	K2802	K2802
GLY	R3258	R3187	R3187	E3258	Q3145	Q3145	L3070	I2995	A2923	GLY	L2747	L2747	L2747
GLY	R3258	R3187	R3187	E3258	H3146	H3146	L3071	K2996	R2965	GLY	P2748	P2748	P2748
GLY	R3258	R3187	R3187	E3258	I3147	I3147	A3072	A2996	E2925	GLY	E2749	E2749	E2749
GLY	R3258	R3187	R3187	E3258	A3148	A3148	R3073	K3000	L2926	GLY	K2750	K2750	K2750
GLY	R3258	R3187	R3187	E3258	Q3149	Q3149	S3074	N3007	L2927	GLY	W2751	W2751	W2751
GLY	R3258	R3187	R3187	E3258	H3151	H3151	L3075	Q3008	A2927	GLY	D2752	D2752	D2752
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3076	N3007	E2927	GLY	S2753	S2753	S2753
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	L2930	GLY	F2754	F2754	F2754
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	E2931	GLY	I2755	I2755	I2755
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2932	GLY	N2756	N2756	N2756
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2933	GLY	I2756	I2756	I2756
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2934	GLY	N2757	N2757	N2757
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2935	GLY	F2758	F2758	F2758
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2936	GLY	I2758	I2758	I2758
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2937	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2938	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2939	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2940	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2941	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2942	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2943	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2944	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2945	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2946	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2947	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2948	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2949	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2950	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2951	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2952	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2953	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2954	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2955	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2956	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2957	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2958	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2959	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2960	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2961	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2962	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2963	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2964	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2965	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2966	GLY	I2759	I2759	I2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2967	GLY	N2759	N2759	N2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2968	GLY	F2759	F2759	F2759
GLY	R3258	R3187	R3187	E3258	Q3151	Q3151	A3077	Q3008	Q2969	GLY	I2759	I2759	I2759





• Molecule 2: Ryanodine receptor 1

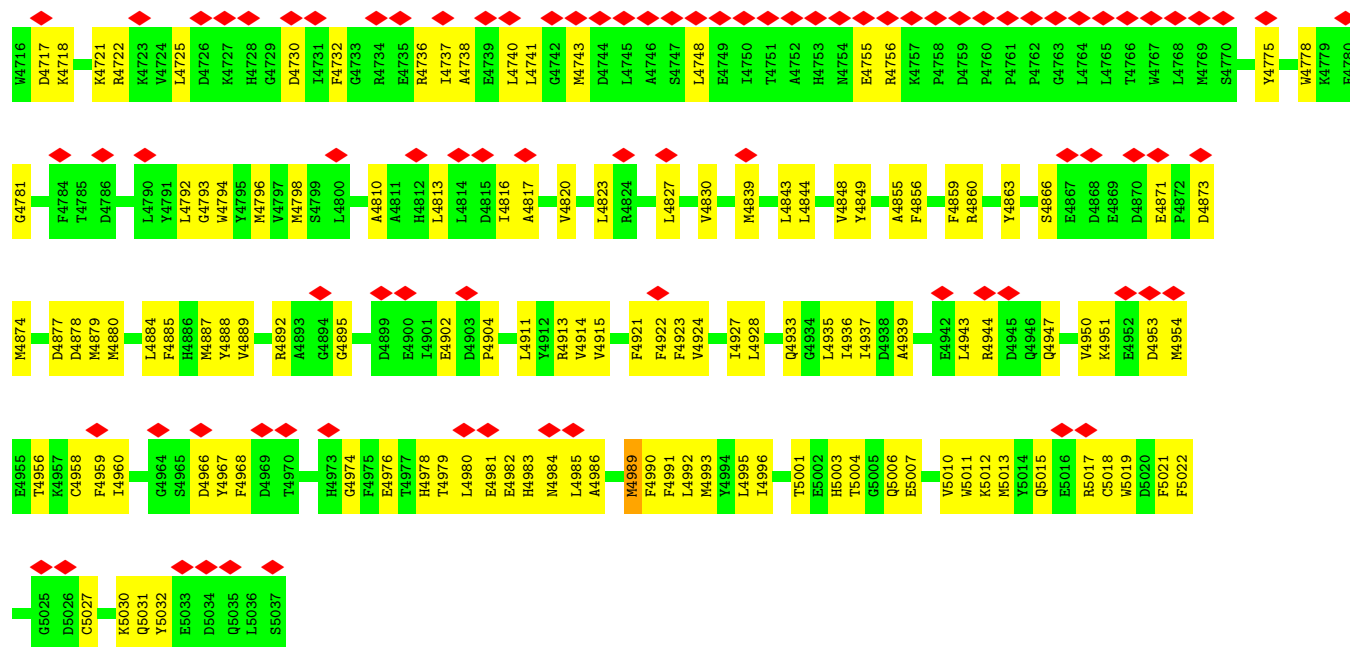












4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	31599	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58.34	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	105000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.771	Depositor
Minimum map value	-0.034	Depositor
Average map value	0.012	Depositor
Map value standard deviation	0.023	Depositor
Recommended contour level	0.106	Depositor
Map size (Å)	425.472, 425.472, 425.472	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.831, 0.831, 0.831	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	F	0.94	3/834 (0.4%)	0.87	4/1123 (0.4%)
1	H	0.94	4/834 (0.5%)	0.87	4/1123 (0.4%)
1	J	0.94	4/834 (0.5%)	0.87	4/1123 (0.4%)
1	O	0.94	3/834 (0.4%)	0.87	4/1123 (0.4%)
2	A	0.38	6/35023 (0.0%)	0.56	13/47448 (0.0%)
2	B	0.38	7/35023 (0.0%)	0.56	13/47448 (0.0%)
2	G	0.38	7/35023 (0.0%)	0.56	13/47448 (0.0%)
2	I	0.38	6/35023 (0.0%)	0.56	13/47448 (0.0%)
All	All	0.40	40/143428 (0.0%)	0.57	68/194284 (0.0%)

All (40) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	752	VAL	CA-C	-11.00	1.43	1.52
2	G	752	VAL	CA-C	-11.00	1.43	1.52
2	I	752	VAL	CA-C	-10.92	1.43	1.52
2	B	752	VAL	CA-C	-10.91	1.43	1.52
2	G	755	ILE	CA-C	-8.30	1.42	1.52
2	B	755	ILE	CA-C	-8.30	1.42	1.52
2	I	755	ILE	CA-C	-8.30	1.42	1.52
2	A	755	ILE	CA-C	-8.25	1.42	1.52
2	B	1779	PRO	CA-C	-7.53	1.47	1.52
2	I	1779	PRO	CA-C	-7.53	1.47	1.52
2	A	1779	PRO	CA-C	-7.49	1.47	1.52
2	G	1779	PRO	CA-C	-7.45	1.47	1.52
1	F	39	SER	CA-C	-6.37	1.44	1.52
1	J	39	SER	CA-C	-6.37	1.44	1.52
1	O	39	SER	CA-C	-6.36	1.44	1.52
1	H	39	SER	CA-C	-6.34	1.44	1.52
1	J	38	SER	CA-C	-6.02	1.45	1.52
1	H	38	SER	CA-C	-5.95	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	38	SER	CA-C	-5.93	1.45	1.52
1	O	38	SER	CA-C	-5.91	1.45	1.52
2	G	752	VAL	CA-CB	-5.74	1.50	1.55
2	B	752	VAL	CA-CB	-5.74	1.50	1.55
2	I	752	VAL	CA-CB	-5.70	1.50	1.55
2	A	752	VAL	CA-CB	-5.56	1.50	1.55
2	A	752	VAL	C-O	-5.52	1.18	1.24
1	O	28	GLY	CA-C	-5.51	1.47	1.52
2	B	752	VAL	C-O	-5.51	1.18	1.24
2	I	752	VAL	C-O	-5.50	1.18	1.24
1	J	28	GLY	CA-C	-5.47	1.47	1.52
2	G	752	VAL	C-O	-5.41	1.19	1.24
1	H	28	GLY	CA-C	-5.39	1.47	1.52
1	F	28	GLY	CA-C	-5.38	1.47	1.52
2	G	1779	PRO	CA-CB	-5.25	1.49	1.54
2	A	1779	PRO	CA-CB	-5.18	1.49	1.54
2	B	1779	PRO	CA-CB	-5.17	1.49	1.54
2	I	1779	PRO	CA-CB	-5.10	1.49	1.54
1	H	39	SER	CA-CB	-5.04	1.45	1.53
1	J	39	SER	CA-CB	-5.03	1.45	1.53
2	G	748	LEU	CA-C	-5.03	1.46	1.52
2	B	748	LEU	CA-C	-5.03	1.46	1.52

All (68) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	752	VAL	CA-C-N	-28.03	82.41	120.25
2	A	752	VAL	C-N-CA	-28.03	82.41	120.25
2	G	752	VAL	CA-C-N	-28.02	82.42	120.25
2	G	752	VAL	C-N-CA	-28.02	82.42	120.25
2	B	752	VAL	CA-C-N	-28.02	82.42	120.25
2	B	752	VAL	C-N-CA	-28.02	82.42	120.25
2	I	752	VAL	CA-C-N	-28.02	82.42	120.25
2	I	752	VAL	C-N-CA	-28.02	82.42	120.25
2	B	752	VAL	N-CA-C	-14.97	91.23	107.84
2	G	752	VAL	N-CA-C	-14.95	91.25	107.84
2	A	752	VAL	N-CA-C	-14.92	91.28	107.84
2	I	752	VAL	N-CA-C	-14.92	91.28	107.84
2	B	1690	ASP	N-CA-C	8.77	121.84	110.53
2	G	1690	ASP	N-CA-C	8.76	121.83	110.53
2	A	1690	ASP	N-CA-C	8.75	121.82	110.53
2	I	1690	ASP	N-CA-C	8.74	121.80	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	750	LEU	N-CA-C	-7.03	103.81	112.88
2	A	750	LEU	N-CA-C	-7.00	103.84	112.88
2	I	750	LEU	N-CA-C	-6.99	103.86	112.88
2	G	750	LEU	N-CA-C	-6.96	103.90	112.88
2	I	749	ASP	N-CA-C	-6.88	97.13	108.76
2	G	749	ASP	N-CA-C	-6.87	97.16	108.76
2	A	749	ASP	N-CA-C	-6.86	97.17	108.76
2	B	749	ASP	N-CA-C	-6.85	97.19	108.76
1	J	28	GLY	N-CA-C	6.84	121.72	111.18
1	O	28	GLY	N-CA-C	6.83	121.70	111.18
1	H	28	GLY	N-CA-C	6.82	121.68	111.18
1	F	28	GLY	N-CA-C	6.81	121.66	111.18
2	G	3971	GLY	N-CA-C	-6.52	104.08	112.10
2	A	3971	GLY	N-CA-C	-6.50	104.11	112.10
2	B	3971	GLY	N-CA-C	-6.48	104.13	112.10
2	I	3971	GLY	N-CA-C	-6.46	104.15	112.10
2	A	752	VAL	CB-CA-C	-6.15	101.99	111.89
2	B	752	VAL	CB-CA-C	-6.13	102.02	111.89
2	I	752	VAL	CB-CA-C	-6.11	102.05	111.89
2	G	752	VAL	CB-CA-C	-6.11	102.05	111.89
2	A	5006	GLN	N-CA-C	-5.91	104.43	111.69
2	I	5006	GLN	N-CA-C	-5.90	104.43	111.69
2	B	5006	GLN	N-CA-C	-5.90	104.43	111.69
2	G	5006	GLN	N-CA-C	-5.87	104.47	111.69
2	G	755	ILE	CB-CA-C	-5.59	102.13	111.29
2	B	755	ILE	CB-CA-C	-5.59	102.13	111.29
2	I	755	ILE	CB-CA-C	-5.58	102.13	111.29
2	A	755	ILE	CB-CA-C	-5.58	102.13	111.29
2	B	2247	GLN	N-CA-C	-5.58	105.10	111.07
2	I	2247	GLN	N-CA-C	-5.57	105.11	111.07
2	G	2247	GLN	N-CA-C	-5.56	105.12	111.07
2	A	2247	GLN	N-CA-C	-5.55	105.13	111.07
1	F	29	MET	N-CA-C	5.30	117.12	109.07
2	I	5003	HIS	N-CA-C	-5.28	102.57	110.23
1	O	29	MET	N-CA-C	5.28	117.10	109.07
2	A	5003	HIS	N-CA-C	-5.27	102.58	110.23
2	B	5003	HIS	N-CA-C	-5.27	102.58	110.23
1	J	29	MET	N-CA-C	5.27	117.08	109.07
1	H	29	MET	N-CA-C	5.25	117.05	109.07
2	G	5003	HIS	N-CA-C	-5.25	102.62	110.23
1	H	54	GLU	CA-CB-CG	5.21	124.53	114.10
1	J	54	GLU	CA-CB-CG	5.21	124.52	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	25	HIS	N-CA-C	-5.21	97.22	107.69
1	F	54	GLU	CA-CB-CG	5.21	124.52	114.10
1	F	25	HIS	N-CA-C	-5.21	97.23	107.69
1	O	25	HIS	N-CA-C	-5.21	97.23	107.69
1	O	54	GLU	CA-CB-CG	5.21	124.51	114.10
1	H	25	HIS	N-CA-C	-5.18	97.28	107.69
2	I	4989	MET	CB-CG-SD	5.10	128.01	112.70
2	B	4989	MET	CB-CG-SD	5.09	127.98	112.70
2	A	4989	MET	CB-CG-SD	5.09	127.98	112.70
2	G	4989	MET	CB-CG-SD	5.08	127.94	112.70

There are no chirality outliers.

There are no planarity outliers.

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	F	818	0	824	27	0
1	H	818	0	824	25	0
1	J	818	0	824	24	0
1	O	818	0	824	24	0
2	A	34238	0	33844	1399	0
2	B	34238	0	33844	1416	0
2	G	34238	0	33844	1400	0
2	I	34238	0	33844	1410	0
3	A	31	0	12	5	0
3	B	31	0	12	5	0
3	G	31	0	12	6	0
3	I	31	0	12	6	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	G	1	0	0	0	0
4	I	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	G	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	I	1	0	0	0	0
6	A	14	0	10	2	0
6	B	14	0	10	2	0
6	G	14	0	10	2	0
6	I	14	0	10	2	0
All	All	140412	0	138760	5626	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 20.

All (5626) 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)
2:G:4658:ILE:HD13	2:G:4796:MET:HE3	1.35	1.09
2:I:4658:ILE:HD13	2:I:4796:MET:HE3	1.35	1.08
2:A:4658:ILE:HD13	2:A:4796:MET:HE3	1.35	1.07
2:B:4658:ILE:HD13	2:B:4796:MET:HE3	1.35	1.06
2:G:4983:HIS:HB2	3:G:5301:ATP:HN62	1.25	1.01
2:A:4880:MET:SD	2:G:4578:LEU:O	2.19	1.00
2:A:4983:HIS:HB2	3:A:5301:ATP:HN62	1.25	1.00
2:I:4983:HIS:HB2	3:I:5301:ATP:HN62	1.25	0.99
2:A:4935:LEU:CD2	2:G:4944:ARG:NH2	2.27	0.98
2:B:4983:HIS:HB2	3:B:5301:ATP:HN62	1.25	0.98
2:G:4935:LEU:CD2	2:I:4944:ARG:NH2	2.29	0.95
2:B:4944:ARG:NH2	2:I:4935:LEU:CD2	2.30	0.94
2:B:2604:GLU:HB2	2:B:2639:MET:HG3	1.52	0.92
2:I:2604:GLU:HB2	2:I:2639:MET:HG3	1.52	0.92
1:F:54:GLU:OE1	1:F:54:GLU:N	2.03	0.92
2:A:2604:GLU:HB2	2:A:2639:MET:HG3	1.51	0.92
1:O:54:GLU:N	1:O:54:GLU:OE1	2.03	0.92
1:H:54:GLU:OE1	1:H:54:GLU:N	2.03	0.91
1:J:54:GLU:OE1	1:J:54:GLU:N	2.03	0.91
2:G:2604:GLU:HB2	2:G:2639:MET:HG3	1.51	0.90
2:A:4000:MET:HA	2:A:4003:LEU:HB2	1.54	0.90
2:G:4000:MET:HA	2:G:4003:LEU:HB2	1.54	0.89
2:A:4944:ARG:NH2	2:B:4935:LEU:CD2	2.36	0.89
2:I:4000:MET:HA	2:I:4003:LEU:HB2	1.54	0.89
2:I:4958:CYS:SG	2:I:4978:HIS:CD2	2.66	0.89
2:A:4958:CYS:SG	2:A:4978:HIS:CD2	2.66	0.88
2:B:4578:LEU:O	2:I:4880:MET:SD	2.32	0.88
2:G:3323:ILE:HG23	2:G:3335:MET:HE1	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4958:CYS:SG	2:B:4978:HIS:CD2	2.66	0.88
2:I:3323:ILE:HG23	2:I:3335:MET:HE1	1.56	0.88
2:B:3323:ILE:HG23	2:B:3335:MET:HE1	1.56	0.87
2:B:4000:MET:HA	2:B:4003:LEU:HB2	1.54	0.87
2:G:4958:CYS:SG	2:G:4978:HIS:CD2	2.67	0.87
2:A:4578:LEU:O	2:B:4880:MET:SD	2.33	0.87
2:G:4880:MET:SD	2:I:4578:LEU:O	2.32	0.87
2:A:3323:ILE:HG23	2:A:3335:MET:HE1	1.56	0.86
2:G:2816:MET:HE2	2:G:2823:ILE:HG12	1.57	0.86
2:B:3980:LEU:HD12	2:B:3985:LEU:HD13	1.57	0.86
2:A:4935:LEU:HD23	2:G:4944:ARG:NH2	1.91	0.85
2:A:3980:LEU:HD12	2:A:3985:LEU:HD13	1.57	0.85
2:B:2528:PRO:HA	2:B:2531:ARG:HG2	1.58	0.85
2:A:2816:MET:HE2	2:A:2823:ILE:HG12	1.57	0.85
2:G:2528:PRO:HA	2:G:2531:ARG:HG2	1.58	0.85
2:I:2528:PRO:HA	2:I:2531:ARG:HG2	1.57	0.85
2:B:2816:MET:HE2	2:B:2823:ILE:HG12	1.57	0.84
2:A:4000:MET:O	2:A:4004:ALA:N	2.10	0.84
2:A:4083:ASP:HB2	2:A:4122:MET:HE2	1.60	0.84
2:G:3980:LEU:HD12	2:G:3985:LEU:HD13	1.57	0.84
2:G:4000:MET:O	2:G:4004:ALA:N	2.10	0.84
2:I:4239:GLU:HA	2:I:4242:ILE:HD12	1.59	0.84
2:I:4000:MET:O	2:I:4004:ALA:N	2.10	0.84
2:A:2528:PRO:HA	2:A:2531:ARG:HG2	1.58	0.84
1:J:49:ARG:HB3	1:J:49:ARG:HH11	1.43	0.84
2:G:4935:LEU:HD21	2:I:4944:ARG:NH2	1.92	0.84
2:B:4083:ASP:HB2	2:B:4122:MET:HE2	1.60	0.84
2:I:2816:MET:HE2	2:I:2823:ILE:HG12	1.57	0.84
2:I:3980:LEU:HD12	2:I:3985:LEU:HD13	1.57	0.84
2:G:4083:ASP:HB2	2:G:4122:MET:HE2	1.59	0.84
1:O:49:ARG:HB3	1:O:49:ARG:HH11	1.43	0.83
2:B:4000:MET:O	2:B:4004:ALA:N	2.10	0.83
2:A:4239:GLU:HA	2:A:4242:ILE:HD12	1.59	0.83
1:F:49:ARG:HB3	1:F:49:ARG:HH11	1.43	0.83
2:I:4083:ASP:HB2	2:I:4122:MET:HE2	1.59	0.82
2:G:4239:GLU:HA	2:G:4242:ILE:HD12	1.59	0.82
2:B:4239:GLU:HA	2:B:4242:ILE:HD12	1.59	0.82
2:A:4935:LEU:HD21	2:G:4944:ARG:HH21	1.43	0.82
2:A:4189:ARG:NE	2:A:5032:TYR:OH	2.13	0.82
1:H:49:ARG:HB3	1:H:49:ARG:HH11	1.43	0.82
2:G:4189:ARG:NE	2:G:5032:TYR:OH	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2707:ALA:HB1	2:I:3009:TYR:HD1	1.45	0.81
2:A:4935:LEU:HD21	2:G:4944:ARG:NH2	1.95	0.81
2:G:2707:ALA:HB1	2:G:3009:TYR:HD1	1.45	0.81
2:A:4935:LEU:HD23	2:G:4944:ARG:HH22	1.44	0.81
2:A:3206:LEU:HA	2:A:3246:LEU:HD23	1.63	0.80
2:G:4935:LEU:HD21	2:I:4944:ARG:HH21	1.45	0.80
2:B:4189:ARG:NE	2:B:5032:TYR:OH	2.13	0.80
2:G:4935:LEU:HD23	2:I:4944:ARG:HH22	1.46	0.80
2:A:2430:ILE:HG13	2:A:2502:MET:HE1	1.63	0.80
2:G:2430:ILE:HG13	2:G:2502:MET:HE1	1.63	0.80
2:B:2707:ALA:HB1	2:B:3009:TYR:HD1	1.45	0.80
2:I:4189:ARG:NE	2:I:5032:TYR:OH	2.13	0.80
2:B:4944:ARG:NH2	2:I:4935:LEU:HD23	1.97	0.80
2:B:2619:LEU:HD23	2:B:2623:LEU:HB2	1.65	0.79
2:I:2619:LEU:HD23	2:I:2623:LEU:HB2	1.65	0.79
2:B:2165:LEU:HD13	2:B:2174:GLU:HG3	1.64	0.79
2:I:2430:ILE:HG13	2:I:2502:MET:HE1	1.63	0.79
2:B:4944:ARG:NH2	2:I:4935:LEU:HD21	1.94	0.79
2:I:4978:HIS:CE1	2:I:4983:HIS:NE2	2.50	0.79
2:A:2707:ALA:HB1	2:A:3009:TYR:HD1	1.45	0.79
2:A:4978:HIS:CE1	2:A:4983:HIS:NE2	2.50	0.79
2:B:4978:HIS:CE1	2:B:4983:HIS:NE2	2.50	0.79
2:I:3206:LEU:HA	2:I:3246:LEU:HD23	1.63	0.79
2:G:4978:HIS:CE1	2:G:4983:HIS:NE2	2.50	0.79
2:I:2165:LEU:HD13	2:I:2174:GLU:HG3	1.64	0.79
2:B:2531:ARG:HA	2:B:2588:ARG:HH21	1.48	0.79
2:A:4715:TYR:O	2:A:4718:LYS:NZ	2.15	0.78
2:G:3206:LEU:HA	2:G:3246:LEU:HD23	1.63	0.78
2:B:3206:LEU:HA	2:B:3246:LEU:HD23	1.63	0.78
2:A:2619:LEU:HD23	2:A:2623:LEU:HB2	1.65	0.78
2:G:4935:LEU:HD23	2:I:4944:ARG:NH2	1.96	0.78
2:B:4944:ARG:HH21	2:I:4935:LEU:HD21	1.46	0.78
2:G:2619:LEU:HD23	2:G:2623:LEU:HB2	1.65	0.78
2:A:4689:THR:HG22	2:A:4732:PHE:HE2	1.48	0.78
2:I:2640:PRO:O	2:I:2643:LEU:HB3	1.83	0.78
2:G:2165:LEU:HD13	2:G:2174:GLU:HG3	1.64	0.78
2:B:4944:ARG:HH22	2:I:4935:LEU:HD23	1.47	0.78
2:A:2640:PRO:O	2:A:2643:LEU:HB3	1.83	0.78
2:A:4578:LEU:HD13	2:B:4849:TYR:HE1	1.48	0.78
2:B:2430:ILE:HG13	2:B:2502:MET:HE1	1.63	0.78
2:I:4689:THR:OG1	2:I:4690:GLU:OE1	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2531:ARG:HA	2:A:2588:ARG:HH21	1.48	0.77
2:B:2640:PRO:O	2:B:2643:LEU:HB3	1.83	0.77
2:I:3402:CYS:HA	2:I:3405:LEU:HD12	1.67	0.77
2:I:2447:LYS:HG3	2:I:2450:ALA:H	1.50	0.77
2:A:2165:LEU:HD13	2:A:2174:GLU:HG3	1.64	0.77
2:A:2447:LYS:HG3	2:A:2450:ALA:H	1.50	0.77
2:A:4877:ASP:O	2:G:4582:VAL:HG12	1.84	0.77
2:G:2531:ARG:HA	2:G:2588:ARG:HH21	1.48	0.77
2:B:3402:CYS:HA	2:B:3405:LEU:HD12	1.67	0.77
2:G:2640:PRO:O	2:G:2643:LEU:HB3	1.83	0.77
2:I:4189:ARG:NH1	2:I:4191:GLU:OE2	2.18	0.77
2:A:615:ARG:HH21	2:A:2168:VAL:HG21	1.51	0.76
2:A:4689:THR:OG1	2:A:4690:GLU:OE1	2.02	0.76
2:G:4689:THR:HG22	2:G:4732:PHE:HE2	1.48	0.76
2:G:3402:CYS:HA	2:G:3405:LEU:HD12	1.67	0.76
2:A:4860:ARG:HG2	2:A:4874:MET:HE2	1.68	0.76
2:I:4860:ARG:HG2	2:I:4874:MET:HE2	1.68	0.76
2:A:73:LEU:O	2:A:105:HIS:ND1	2.18	0.76
2:G:320:LYS:NZ	2:G:381:GLU:OE2	2.19	0.76
2:B:320:LYS:NZ	2:B:381:GLU:OE2	2.19	0.76
2:I:111:HIS:ND1	2:I:114:SER:OG	2.17	0.76
2:A:667:MET:SD	2:A:790:ARG:NH2	2.59	0.76
2:G:4189:ARG:NH1	2:G:4191:GLU:OE2	2.18	0.76
2:I:320:LYS:NZ	2:I:381:GLU:OE2	2.19	0.76
2:I:2531:ARG:HA	2:I:2588:ARG:HH21	1.48	0.76
2:A:1269:CYS:SG	2:A:1563:GLN:NE2	2.59	0.76
2:G:1100:MET:HE2	2:G:1198:GLN:HB3	1.68	0.76
2:B:2452:ARG:NH2	2:I:175:SER:O	2.18	0.76
2:I:4689:THR:HG22	2:I:4732:PHE:HE2	1.48	0.76
2:G:667:MET:SD	2:G:790:ARG:NH2	2.59	0.76
2:G:4715:TYR:O	2:G:4718:LYS:NZ	2.15	0.76
2:B:667:MET:SD	2:B:790:ARG:NH2	2.59	0.76
2:B:4189:ARG:NH1	2:B:4191:GLU:OE2	2.18	0.76
2:A:1100:MET:HE2	2:A:1198:GLN:HB3	1.68	0.76
2:A:3402:CYS:HA	2:A:3405:LEU:HD12	1.67	0.76
2:G:73:LEU:O	2:G:105:HIS:ND1	2.18	0.76
2:G:2175:GLU:HA	2:G:2228:MET:HE1	1.68	0.76
2:G:4860:ARG:HG2	2:G:4874:MET:HE2	1.68	0.76
2:B:615:ARG:HH21	2:B:2168:VAL:HG21	1.50	0.76
2:B:1269:CYS:SG	2:B:1563:GLN:NE2	2.59	0.76
2:A:4944:ARG:NH2	2:B:4935:LEU:HD23	2.00	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:175:SER:O	2:I:2452:ARG:NH2	2.19	0.75
2:B:221:ARG:NH2	2:B:253:CYS:O	2.19	0.75
2:B:4860:ARG:HG2	2:B:4874:MET:HE2	1.68	0.75
2:I:2495:VAL:HG12	2:I:2498:HIS:H	1.50	0.75
2:A:2296:GLU:HA	2:A:2356:LEU:HD21	1.69	0.75
2:A:4944:ARG:NH2	2:B:4935:LEU:HD21	2.00	0.75
1:H:79:ASP:OD1	1:H:80:VAL:N	2.20	0.75
1:J:79:ASP:OD1	1:J:80:VAL:N	2.20	0.75
2:G:2495:VAL:HG12	2:G:2498:HIS:H	1.50	0.75
2:G:4689:THR:OG1	2:G:4690:GLU:OE1	2.02	0.75
2:I:667:MET:SD	2:I:790:ARG:NH2	2.59	0.75
2:I:2175:GLU:HA	2:I:2228:MET:HE1	1.69	0.75
2:A:4673:ARG:HH22	2:A:4701:TRP:HB3	1.51	0.75
2:G:2447:LYS:HG3	2:G:2450:ALA:H	1.50	0.75
2:B:3053:ARG:NH1	2:B:3131:TYR:OH	2.20	0.75
2:A:3053:ARG:NH1	2:A:3131:TYR:OH	2.20	0.75
2:B:2175:GLU:HA	2:B:2228:MET:HE1	1.68	0.75
2:B:2296:GLU:HA	2:B:2356:LEU:HD21	1.69	0.75
2:I:4902:GLU:O	2:I:4913:ARG:NH2	2.20	0.75
2:A:1087:ARG:HG3	2:A:1154:ASP:HA	1.69	0.75
2:G:615:ARG:HH21	2:G:2168:VAL:HG21	1.51	0.75
2:B:1087:ARG:HG3	2:B:1154:ASP:HA	1.69	0.75
2:B:4689:THR:OG1	2:B:4690:GLU:OE1	2.02	0.75
2:A:2175:GLU:HA	2:A:2228:MET:HE1	1.68	0.75
2:A:4902:GLU:O	2:A:4913:ARG:NH2	2.20	0.75
2:B:4689:THR:HG22	2:B:4732:PHE:HE2	1.48	0.75
2:I:2754:PHE:HD2	2:I:2813:LEU:HD11	1.52	0.75
2:A:4241:THR:O	2:A:4245:MET:HG3	1.87	0.75
1:O:79:ASP:OD1	1:O:80:VAL:N	2.20	0.75
2:B:4241:THR:O	2:B:4245:MET:HG3	1.87	0.75
2:I:1100:MET:HE2	2:I:1198:GLN:HB3	1.68	0.75
1:F:79:ASP:OD1	1:F:80:VAL:N	2.20	0.74
2:A:320:LYS:NZ	2:A:381:GLU:OE2	2.19	0.74
2:A:4189:ARG:NH1	2:A:4191:GLU:OE2	2.18	0.74
2:G:4673:ARG:HH22	2:G:4701:TRP:HB3	1.51	0.74
2:B:2447:LYS:HG3	2:B:2450:ALA:H	1.50	0.74
2:B:4673:ARG:HH22	2:B:4701:TRP:HB3	1.51	0.74
2:I:1087:ARG:HG3	2:I:1154:ASP:HA	1.69	0.74
2:A:2495:VAL:HG12	2:A:2498:HIS:H	1.50	0.74
2:A:4944:ARG:HH22	2:B:4935:LEU:HD23	1.52	0.74
2:I:221:ARG:NH2	2:I:253:CYS:O	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3053:ARG:NH1	2:I:3131:TYR:OH	2.20	0.74
2:A:221:ARG:NH2	2:A:253:CYS:O	2.19	0.74
2:G:3208:PRO:HA	2:G:3211:ASN:HB2	1.69	0.74
2:G:1087:ARG:HG3	2:G:1154:ASP:HA	1.69	0.74
2:I:1269:CYS:SG	2:I:1563:GLN:NE2	2.59	0.74
2:I:4673:ARG:HH22	2:I:4701:TRP:HB3	1.51	0.74
2:G:221:ARG:NH2	2:G:253:CYS:O	2.19	0.74
2:G:1269:CYS:SG	2:G:1563:GLN:NE2	2.59	0.74
2:G:3053:ARG:NH1	2:G:3131:TYR:OH	2.20	0.74
2:I:3208:PRO:HA	2:I:3211:ASN:HB2	1.69	0.74
2:I:4241:THR:O	2:I:4245:MET:HG3	1.87	0.74
2:A:2243:SER:OG	2:A:2246:ASN:OD1	2.05	0.74
2:A:2754:PHE:HD2	2:A:2813:LEU:HD11	1.51	0.74
2:B:1100:MET:HE2	2:B:1198:GLN:HB3	1.68	0.74
2:I:4715:TYR:O	2:I:4718:LYS:NZ	2.15	0.74
1:F:23:VAL:HG12	1:F:47:LYS:HG2	1.70	0.73
2:A:111:HIS:ND1	2:A:114:SER:OG	2.17	0.73
2:B:2243:SER:OG	2:B:2246:ASN:OD1	2.05	0.73
2:B:4902:GLU:O	2:B:4913:ARG:NH2	2.20	0.73
2:I:615:ARG:HH21	2:I:2168:VAL:HG21	1.50	0.73
2:A:4944:ARG:HH21	2:B:4935:LEU:HD21	1.53	0.73
2:G:2754:PHE:HD2	2:G:2813:LEU:HD11	1.51	0.73
2:G:4241:THR:O	2:G:4245:MET:HG3	1.87	0.73
2:G:4902:GLU:O	2:G:4913:ARG:NH2	2.20	0.73
2:B:2288:LEU:HD22	2:B:3853:ALA:HB2	1.70	0.73
2:B:3208:PRO:HA	2:B:3211:ASN:HB2	1.69	0.73
1:H:23:VAL:HG12	1:H:47:LYS:HG2	1.70	0.73
1:O:23:VAL:HG12	1:O:47:LYS:HG2	1.70	0.73
2:G:2296:GLU:HA	2:G:2356:LEU:HD21	1.69	0.73
2:B:111:HIS:ND1	2:B:114:SER:OG	2.17	0.73
2:I:2296:GLU:HA	2:I:2356:LEU:HD21	1.69	0.73
2:I:2288:LEU:HD22	2:I:3853:ALA:HB2	1.70	0.73
2:I:2243:SER:OG	2:I:2246:ASN:OD1	2.05	0.73
1:J:23:VAL:HG12	1:J:47:LYS:HG2	1.70	0.73
2:B:2495:VAL:HG12	2:B:2498:HIS:H	1.50	0.73
2:I:4722:ARG:HG2	2:I:4748:LEU:HD11	1.70	0.73
2:A:3992:PHE:O	2:A:3996:PHE:N	2.22	0.73
2:I:2694:GLU:OE1	2:I:2694:GLU:N	2.22	0.73
2:G:111:HIS:ND1	2:G:114:SER:OG	2.17	0.73
2:B:2754:PHE:HD2	2:B:2813:LEU:HD11	1.51	0.73
2:G:2243:SER:OG	2:G:2246:ASN:OD1	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4722:ARG:HG2	2:G:4748:LEU:HD11	1.70	0.72
2:A:3208:PRO:HA	2:A:3211:ASN:HB2	1.69	0.72
2:G:4913:ARG:NH1	2:I:4888:TYR:OH	2.22	0.72
2:B:158:SER:N	2:B:161:GLU:OE2	2.22	0.72
2:B:4722:ARG:HG2	2:B:4748:LEU:HD11	1.71	0.72
2:A:3997:ALA:HB3	2:A:4057:MET:HE3	1.72	0.72
2:B:3997:ALA:HB3	2:B:4057:MET:HE3	1.72	0.72
2:A:2288:LEU:HD22	2:A:3853:ALA:HB2	1.70	0.72
2:A:2433:LEU:HD13	2:A:2460:LEU:HD21	1.72	0.72
2:G:101:LEU:HB2	2:G:163:VAL:HG21	1.72	0.72
2:G:3992:PHE:HA	2:G:3995:VAL:HB	1.72	0.72
2:B:1115:LEU:HD23	2:B:1123:VAL:HG11	1.72	0.72
2:G:2288:LEU:HD22	2:G:3853:ALA:HB2	1.70	0.71
2:G:3997:ALA:HB3	2:G:4057:MET:HE3	1.72	0.71
2:A:1147:ASP:OD1	2:A:1165:ASN:ND2	2.24	0.71
2:B:3992:PHE:O	2:B:3996:PHE:N	2.22	0.71
2:I:1115:LEU:HD23	2:I:1123:VAL:HG11	1.72	0.71
2:I:1230:MET:SD	2:I:1827:ARG:NH2	2.63	0.71
2:A:4035:VAL:HA	2:A:4189:ARG:NH2	2.06	0.71
2:A:4722:ARG:HG2	2:A:4748:LEU:HD11	1.71	0.71
2:A:2607:LEU:HD23	2:A:2639:MET:HE1	1.73	0.71
2:B:101:LEU:HB2	2:B:163:VAL:HG21	1.72	0.71
2:I:101:LEU:HB2	2:I:163:VAL:HG21	1.72	0.71
2:I:3997:ALA:HB3	2:I:4057:MET:HE3	1.72	0.71
2:A:175:SER:O	2:G:2452:ARG:NH2	2.23	0.71
2:I:3992:PHE:O	2:I:3996:PHE:N	2.22	0.71
2:A:101:LEU:HB2	2:A:163:VAL:HG21	1.72	0.71
2:G:1230:MET:SD	2:G:1827:ARG:NH2	2.64	0.71
2:G:2607:LEU:HD23	2:G:2639:MET:HE1	1.73	0.71
2:G:2694:GLU:OE1	2:G:2694:GLU:N	2.22	0.71
2:G:4035:VAL:HA	2:G:4189:ARG:NH2	2.06	0.71
2:I:3992:PHE:HA	2:I:3995:VAL:HB	1.72	0.71
2:G:1115:LEU:HD23	2:G:1123:VAL:HG11	1.72	0.71
2:A:158:SER:N	2:A:161:GLU:OE2	2.23	0.71
2:A:1101:ARG:NH1	2:A:1114:GLU:OE1	2.24	0.71
2:G:2433:LEU:HD13	2:G:2460:LEU:HD21	1.72	0.71
2:B:3550:ARG:HG3	2:B:3597:GLN:HG3	1.73	0.71
2:I:4035:VAL:HA	2:I:4189:ARG:NH2	2.06	0.71
2:A:3283:ARG:HH21	2:A:3287:ARG:HH22	1.37	0.71
2:G:3283:ARG:HH21	2:G:3287:ARG:HH22	1.37	0.71
2:B:2433:LEU:HD13	2:B:2460:LEU:HD21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4035:VAL:HA	2:B:4189:ARG:NH2	2.06	0.71
2:A:1115:LEU:HD23	2:A:1123:VAL:HG11	1.72	0.70
2:A:3992:PHE:HA	2:A:3995:VAL:HB	1.72	0.70
2:G:972:LEU:O	2:G:976:ARG:NH1	2.24	0.70
2:B:2694:GLU:OE1	2:B:2694:GLU:N	2.22	0.70
2:I:4688:ILE:HG23	2:I:4689:THR:HG23	1.73	0.70
2:A:2452:ARG:NH2	2:B:175:SER:O	2.24	0.70
2:B:1230:MET:SD	2:B:1827:ARG:NH2	2.64	0.70
2:G:1147:ASP:OD1	2:G:1165:ASN:ND2	2.24	0.70
2:B:2607:LEU:HD23	2:B:2639:MET:HE1	1.73	0.70
2:B:3049:LEU:O	2:B:3053:ARG:NE	2.24	0.70
2:B:3992:PHE:HA	2:B:3995:VAL:HB	1.72	0.70
2:I:158:SER:N	2:I:161:GLU:OE2	2.22	0.70
2:I:1101:ARG:NH1	2:I:1114:GLU:OE1	2.24	0.70
2:A:1018:ASN:HB2	2:A:1021:LEU:HD23	1.73	0.70
2:G:1018:ASN:HB2	2:G:1021:LEU:HD23	1.73	0.70
2:G:3992:PHE:O	2:G:3996:PHE:N	2.22	0.70
2:A:1230:MET:SD	2:A:1827:ARG:NH2	2.64	0.70
2:A:3550:ARG:HG3	2:A:3597:GLN:HG3	1.73	0.70
2:A:4688:ILE:HG23	2:A:4689:THR:HG23	1.73	0.70
2:B:1147:ASP:OD1	2:B:1165:ASN:ND2	2.24	0.70
2:B:4688:ILE:HG23	2:B:4689:THR:HG23	1.74	0.70
2:I:2607:LEU:HD23	2:I:2639:MET:HE1	1.73	0.70
2:I:4251:ILE:HA	2:I:4553:ASN:HB3	1.74	0.70
2:A:3256:LEU:HG	2:A:3266:MET:HE1	1.73	0.70
2:B:1101:ARG:NH1	2:B:1114:GLU:OE1	2.24	0.70
2:I:1147:ASP:OD1	2:I:1165:ASN:ND2	2.24	0.70
2:A:2646:ASN:O	2:A:2650:ARG:N	2.24	0.70
2:G:149:THR:HG22	2:G:150:MET:H	1.55	0.70
2:G:1101:ARG:NH1	2:G:1114:GLU:OE1	2.24	0.70
2:G:4688:ILE:HG23	2:G:4689:THR:HG23	1.73	0.70
2:B:4715:TYR:O	2:B:4718:LYS:NZ	2.15	0.70
2:A:149:THR:HG22	2:A:150:MET:H	1.55	0.70
2:B:73:LEU:O	2:B:105:HIS:ND1	2.18	0.70
2:B:3283:ARG:HH21	2:B:3287:ARG:HH22	1.37	0.70
2:I:972:LEU:O	2:I:976:ARG:NH1	2.25	0.70
2:A:3049:LEU:O	2:A:3053:ARG:NE	2.24	0.70
2:B:972:LEU:O	2:B:976:ARG:NH1	2.25	0.70
2:I:3550:ARG:HG3	2:I:3597:GLN:HG3	1.73	0.70
2:A:972:LEU:O	2:A:976:ARG:NH1	2.25	0.70
2:G:4049:VAL:HA	2:G:4052:SER:HB3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4251:ILE:HA	2:G:4553:ASN:HB3	1.74	0.70
2:B:149:THR:HG22	2:B:150:MET:H	1.55	0.70
2:I:73:LEU:O	2:I:105:HIS:ND1	2.18	0.70
2:I:149:THR:HG22	2:I:150:MET:H	1.55	0.69
2:I:1980:LEU:O	2:I:1984:PHE:N	2.25	0.69
2:I:2433:LEU:HD13	2:I:2460:LEU:HD21	1.72	0.69
2:I:2827:ARG:NH2	2:I:2935:TYR:O	2.25	0.69
2:I:3256:LEU:HG	2:I:3266:MET:HE1	1.73	0.69
1:O:3:GLU:OE1	1:O:75:THR:OG1	2.10	0.69
2:G:4732:PHE:HB3	2:G:4736:ARG:HH11	1.57	0.69
2:I:4049:VAL:HA	2:I:4052:SER:HB3	1.74	0.69
2:G:125:ARG:NH2	2:G:191:VAL:O	2.26	0.69
2:G:465:GLN:N	2:G:465:GLN:OE1	2.26	0.69
2:G:1980:LEU:O	2:G:1984:PHE:N	2.25	0.69
2:G:3256:LEU:HG	2:G:3266:MET:HE1	1.73	0.69
2:G:3550:ARG:HG3	2:G:3597:GLN:HG3	1.74	0.69
2:A:125:ARG:NH2	2:A:191:VAL:O	2.26	0.69
2:G:573:GLU:OE1	2:G:573:GLU:N	2.24	0.69
2:G:4843:LEU:HB2	2:I:4823:LEU:HD11	1.75	0.69
2:I:3283:ARG:HH21	2:I:3287:ARG:HH22	1.37	0.69
2:A:104:GLY:H	2:A:150:MET:HB3	1.57	0.69
2:G:2646:ASN:O	2:G:2650:ARG:N	2.24	0.69
2:G:2827:ARG:NH2	2:G:2935:TYR:O	2.25	0.69
2:B:465:GLN:OE1	2:B:465:GLN:N	2.26	0.69
2:B:3995:VAL:O	2:B:3999:MET:HG2	1.92	0.69
2:B:4888:TYR:OH	2:I:4913:ARG:NH1	2.25	0.69
2:I:465:GLN:OE1	2:I:465:GLN:N	2.26	0.69
2:I:2646:ASN:O	2:I:2650:ARG:N	2.24	0.69
2:I:2650:ARG:NH2	2:I:2651:CYS:SG	2.66	0.69
2:A:2608:MET:O	2:A:2612:ARG:NH2	2.26	0.69
2:A:2650:ARG:NH2	2:A:2651:CYS:SG	2.66	0.69
2:A:4049:VAL:HA	2:A:4052:SER:HB3	1.74	0.69
2:A:4732:PHE:HB3	2:A:4736:ARG:HH11	1.57	0.69
1:J:3:GLU:OE1	1:J:75:THR:OG1	2.10	0.69
2:B:1980:LEU:O	2:B:1984:PHE:N	2.25	0.69
2:B:2646:ASN:O	2:B:2650:ARG:N	2.24	0.69
2:B:2827:ARG:NH2	2:B:2935:TYR:O	2.25	0.69
2:B:4251:ILE:HA	2:B:4553:ASN:HB3	1.74	0.69
2:I:1018:ASN:HB2	2:I:1021:LEU:HD23	1.73	0.69
2:I:4732:PHE:HB3	2:I:4736:ARG:HH11	1.57	0.69
2:A:2524:VAL:HA	2:A:2528:PRO:HG2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2694:GLU:OE1	2:A:2694:GLU:N	2.22	0.69
2:G:2150:GLU:OE1	2:G:2150:GLU:N	2.25	0.69
2:G:2239:PHE:HD2	2:G:2250:MET:HE2	1.58	0.69
2:G:2650:ARG:NH2	2:G:2651:CYS:SG	2.66	0.69
2:I:2608:MET:O	2:I:2612:ARG:NH2	2.26	0.69
2:A:3995:VAL:O	2:A:3999:MET:HG2	1.92	0.69
1:O:32:ASN:OD1	1:O:33:GLY:N	2.26	0.69
2:G:158:SER:N	2:G:161:GLU:OE2	2.22	0.69
2:A:2239:PHE:HD2	2:A:2250:MET:HE2	1.58	0.68
1:J:32:ASN:OD1	1:J:33:GLY:N	2.26	0.68
2:G:1012:ASP:HB3	2:G:1015:ALA:HB3	1.74	0.68
2:G:1568:LYS:NZ	2:G:1569:GLN:O	2.26	0.68
2:G:2608:MET:O	2:G:2612:ARG:NH2	2.26	0.68
2:B:2239:PHE:HD2	2:B:2250:MET:HE2	1.58	0.68
2:B:2524:VAL:HA	2:B:2528:PRO:HG2	1.75	0.68
2:B:2608:MET:O	2:B:2612:ARG:NH2	2.26	0.68
2:I:1260:MET:SD	2:I:1271:ARG:NH2	2.66	0.68
2:A:1260:MET:SD	2:A:1271:ARG:NH2	2.66	0.68
2:A:2827:ARG:NH2	2:A:2935:TYR:O	2.25	0.68
2:A:4251:ILE:HA	2:A:4553:ASN:HB3	1.74	0.68
2:G:3995:VAL:O	2:G:3999:MET:HG2	1.92	0.68
2:B:2650:ARG:NH2	2:B:2651:CYS:SG	2.66	0.68
2:B:3256:LEU:HG	2:B:3266:MET:HE1	1.73	0.68
2:I:3400:VAL:HG22	2:I:3403:ARG:HH12	1.59	0.68
1:F:3:GLU:OE1	1:F:75:THR:OG1	2.10	0.68
2:A:465:GLN:OE1	2:A:465:GLN:N	2.26	0.68
2:A:3950:ASN:OD1	2:A:3953:LYS:NZ	2.27	0.68
2:G:607:CYS:SG	2:G:608:VAL:N	2.67	0.68
2:G:2524:VAL:HA	2:G:2528:PRO:HG2	1.75	0.68
2:B:3950:ASN:OD1	2:B:3953:LYS:NZ	2.27	0.68
2:I:3995:VAL:O	2:I:3999:MET:HG2	1.92	0.68
1:F:32:ASN:OD1	1:F:33:GLY:N	2.26	0.68
2:A:573:GLU:OE1	2:A:573:GLU:N	2.25	0.68
2:A:1980:LEU:O	2:A:1984:PHE:N	2.25	0.68
2:A:2614:ILE:HD11	2:A:2618:MET:HG2	1.76	0.68
2:B:1568:LYS:NZ	2:B:1569:GLN:O	2.26	0.68
2:I:299:LEU:HD13	2:I:378:LEU:HG	1.76	0.68
2:I:1012:ASP:HB3	2:I:1015:ALA:HB3	1.74	0.68
2:A:683:ARG:NH2	2:A:709:ASP:OD2	2.27	0.68
2:A:1568:LYS:NZ	2:A:1569:GLN:O	2.26	0.68
1:H:32:ASN:OD1	1:H:33:GLY:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:104:GLY:H	2:G:150:MET:HB3	1.57	0.68
2:G:299:LEU:HD13	2:G:378:LEU:HG	1.76	0.68
2:B:1018:ASN:HB2	2:B:1021:LEU:HD23	1.73	0.68
2:B:2614:ILE:HD11	2:B:2618:MET:HG2	1.76	0.68
2:B:4990:PHE:HA	2:B:4993:MET:HE2	1.75	0.68
2:A:2461:VAL:O	2:A:2510:TYR:OH	2.10	0.68
2:A:3400:VAL:HG22	2:A:3403:ARG:HH12	1.59	0.68
2:B:1012:ASP:HB3	2:B:1015:ALA:HB3	1.74	0.68
2:B:1020:ARG:HB2	2:B:1027:LEU:HD11	1.75	0.68
2:B:4732:PHE:HB3	2:B:4736:ARG:HH11	1.57	0.68
2:I:104:GLY:H	2:I:150:MET:HB3	1.57	0.68
2:I:3950:ASN:OD1	2:I:3953:LYS:NZ	2.27	0.68
2:A:2237:CYS:SG	2:A:2241:ARG:NH1	2.67	0.68
1:H:3:GLU:OE1	1:H:75:THR:OG1	2.10	0.68
2:G:3049:LEU:O	2:G:3053:ARG:NE	2.24	0.68
2:B:4049:VAL:HA	2:B:4052:SER:HB3	1.74	0.68
2:I:1568:LYS:NZ	2:I:1569:GLN:O	2.26	0.68
2:A:1012:ASP:HB3	2:A:1015:ALA:HB3	1.74	0.68
2:A:4177:TYR:CE1	2:A:4199:GLU:HB3	2.29	0.68
2:G:2002:PRO:HD3	2:G:3638:MET:HE2	1.76	0.68
2:B:3400:VAL:HG22	2:B:3403:ARG:HH12	1.59	0.68
2:I:4177:TYR:CE1	2:I:4199:GLU:HB3	2.29	0.68
2:A:3984:ARG:HH11	2:A:3986:TRP:HB2	1.59	0.68
2:I:607:CYS:SG	2:I:608:VAL:N	2.67	0.68
2:I:2524:VAL:HA	2:I:2528:PRO:HG2	1.75	0.68
2:I:3049:LEU:O	2:I:3053:ARG:NE	2.24	0.68
2:A:607:CYS:SG	2:A:608:VAL:N	2.67	0.68
2:A:711:LEU:HD12	2:A:1491:ASN:HB3	1.76	0.68
2:B:299:LEU:HD13	2:B:378:LEU:HG	1.76	0.68
2:B:3901:ASN:HA	2:B:3904:ARG:NH2	2.09	0.68
2:I:125:ARG:NH2	2:I:191:VAL:O	2.26	0.68
2:G:676:THR:HG22	2:G:677:ALA:H	1.60	0.67
2:G:3400:VAL:HG22	2:G:3403:ARG:HH12	1.59	0.67
2:G:3950:ASN:OD1	2:G:3953:LYS:NZ	2.27	0.67
2:G:4177:TYR:CE1	2:G:4199:GLU:HB3	2.29	0.67
2:B:125:ARG:NH2	2:B:191:VAL:O	2.26	0.67
2:I:676:THR:HG22	2:I:677:ALA:H	1.59	0.67
2:I:2237:CYS:SG	2:I:2241:ARG:NH1	2.67	0.67
2:G:24:CYS:HB3	2:G:182:LEU:HD22	1.76	0.67
2:G:2237:CYS:SG	2:G:2241:ARG:NH1	2.67	0.67
2:G:3901:ASN:HA	2:G:3904:ARG:NH2	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:104:GLY:H	2:B:150:MET:HB3	1.58	0.67
2:B:607:CYS:SG	2:B:608:VAL:N	2.67	0.67
2:B:3984:ARG:HH11	2:B:3986:TRP:HB2	1.59	0.67
2:B:4248:ALA:O	2:B:4252:SER:N	2.28	0.67
2:I:887:ILE:HD11	2:I:960:MET:HE1	1.76	0.67
2:A:676:THR:HG22	2:A:677:ALA:H	1.59	0.67
2:A:3901:ASN:HA	2:A:3904:ARG:NH2	2.09	0.67
2:G:3984:ARG:HH11	2:G:3986:TRP:HB2	1.59	0.67
2:B:2128:TYR:OH	2:B:3676:ASP:OD2	2.11	0.67
2:I:1020:ARG:HB2	2:I:1027:LEU:HD11	1.75	0.67
2:A:1020:ARG:HB2	2:A:1027:LEU:HD11	1.75	0.67
2:A:3552:PHE:O	2:A:3556:ASN:ND2	2.28	0.67
2:A:4823:LEU:HD11	2:B:4843:LEU:HB2	1.75	0.67
2:B:1260:MET:SD	2:B:1271:ARG:NH2	2.66	0.67
2:I:3984:ARG:HH11	2:I:3986:TRP:HB2	1.59	0.67
2:A:929:LEU:HD23	2:A:932:LEU:HD12	1.77	0.67
2:A:2128:TYR:OH	2:A:3676:ASP:OD2	2.11	0.67
2:A:2750[B]:LYS:NZ	2:A:2823:ILE:O	2.28	0.67
2:G:711:LEU:HD12	2:G:1491:ASN:HB3	1.77	0.67
2:G:1020:ARG:HB2	2:G:1027:LEU:HD11	1.75	0.67
2:G:1260:MET:SD	2:G:1271:ARG:NH2	2.66	0.67
2:B:676:THR:HG22	2:B:677:ALA:H	1.60	0.67
2:B:4177:TYR:CE1	2:B:4199:GLU:HB3	2.29	0.67
2:I:24:CYS:HB3	2:I:182:LEU:HD22	1.76	0.67
2:G:2128:TYR:OH	2:G:3676:ASP:OD2	2.11	0.67
2:B:2150:GLU:OE1	2:B:2150:GLU:N	2.25	0.67
2:B:2237:CYS:SG	2:B:2241:ARG:NH1	2.67	0.67
2:I:2128:TYR:OH	2:I:3676:ASP:OD2	2.11	0.67
2:I:2239:PHE:HD2	2:I:2250:MET:HE2	1.58	0.67
2:I:2461:VAL:O	2:I:2510:TYR:OH	2.10	0.67
2:I:4990:PHE:HA	2:I:4993:MET:HE2	1.75	0.67
2:A:2000:SER:O	2:A:2005:GLN:NE2	2.28	0.67
2:A:4990:PHE:HA	2:A:4993:MET:HE2	1.75	0.67
2:G:4990:PHE:HA	2:G:4993:MET:HE2	1.75	0.67
2:B:4578:LEU:HD13	2:I:4849:TYR:HE1	1.58	0.67
2:I:4248:ALA:O	2:I:4252:SER:N	2.28	0.67
2:A:753:PRO:HG3	2:A:773:LEU:HD11	1.77	0.67
2:A:4248:ALA:O	2:A:4252:SER:N	2.28	0.67
2:G:2750[B]:LYS:NZ	2:G:2823:ILE:O	2.28	0.67
2:B:929:LEU:HD23	2:B:932:LEU:HD12	1.77	0.67
2:I:2002:PRO:HD3	2:I:3638:MET:HE2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3552:PHE:O	2:I:3556:ASN:ND2	2.28	0.67
2:B:932:LEU:HD22	2:B:984:LEU:HD11	1.77	0.67
2:B:711:LEU:HD12	2:B:1491:ASN:HB3	1.76	0.67
2:B:3552:PHE:O	2:B:3556:ASN:ND2	2.28	0.67
2:A:299:LEU:HD13	2:A:378:LEU:HG	1.76	0.66
2:G:887:ILE:HD11	2:G:960:MET:HE1	1.76	0.66
2:G:2000:SER:O	2:G:2005:GLN:NE2	2.28	0.66
2:G:4849:TYR:HE1	2:I:4578:LEU:HD13	1.58	0.66
2:B:887:ILE:HD11	2:B:960:MET:HE1	1.76	0.66
2:I:711:LEU:HD12	2:I:1491:ASN:HB3	1.76	0.66
2:I:3901:ASN:HA	2:I:3904:ARG:NH2	2.09	0.66
2:A:983:THR:O	2:A:987:ARG:NH1	2.29	0.66
2:A:2823:ILE:HG13	2:A:2937:VAL:HG23	1.77	0.66
2:A:4888:TYR:OH	2:B:4913:ARG:NH1	2.28	0.66
2:G:753:PRO:HG3	2:G:773:LEU:HD11	1.77	0.66
2:B:2823:ILE:HG13	2:B:2937:VAL:HG23	1.78	0.66
2:I:2614:ILE:HD11	2:I:2618:MET:HG2	1.76	0.66
2:A:2165:LEU:HD11	2:A:2177:LEU:HD22	1.77	0.66
2:B:818:ARG:NH1	2:B:1027:LEU:O	2.28	0.66
2:B:2000:SER:O	2:B:2005:GLN:NE2	2.28	0.66
2:I:273:HIS:ND1	2:I:334:MET:O	2.27	0.66
2:I:983:THR:O	2:I:987:ARG:NH1	2.29	0.66
2:A:2150:GLU:N	2:A:2150:GLU:OE1	2.25	0.66
2:I:932:LEU:HD22	2:I:984:LEU:HD11	1.77	0.66
2:I:2000:SER:O	2:I:2005:GLN:NE2	2.28	0.66
2:A:2002:PRO:HD3	2:A:3638:MET:HE2	1.76	0.66
2:G:929:LEU:HD23	2:G:932:LEU:HD12	1.77	0.66
2:G:2614:ILE:HD11	2:G:2618:MET:HG2	1.76	0.66
2:B:24:CYS:HB3	2:B:182:LEU:HD22	1.76	0.66
2:B:4823:LEU:HD11	2:I:4843:LEU:HB2	1.77	0.66
2:I:2150:GLU:N	2:I:2150:GLU:OE1	2.25	0.66
2:G:1821:ASP:HA	2:G:1824:GLN:HB2	1.78	0.66
2:B:978:THR:N	2:B:981:GLN:OE1	2.29	0.66
2:B:2750[B]:LYS:NZ	2:B:2823:ILE:O	2.28	0.66
2:B:4582:VAL:HG12	2:I:4877:ASP:O	1.95	0.66
2:I:573:GLU:OE1	2:I:573:GLU:N	2.25	0.66
2:I:818:ARG:NH1	2:I:1027:LEU:O	2.28	0.66
2:I:1821:ASP:HA	2:I:1824:GLN:HB2	1.78	0.66
2:A:978:THR:N	2:A:981:GLN:OE1	2.29	0.66
2:G:932:LEU:HD22	2:G:984:LEU:HD11	1.77	0.66
2:G:2461:VAL:O	2:G:2510:TYR:OH	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:753:PRO:HG3	2:I:773:LEU:HD11	1.77	0.66
2:A:887:ILE:HD11	2:A:960:MET:HE1	1.76	0.66
2:A:932:LEU:HD22	2:A:984:LEU:HD11	1.77	0.66
2:A:3010:PHE:O	2:A:3014:CYS:N	2.29	0.66
2:A:4839:MET:SD	2:G:4820:VAL:HG11	2.35	0.66
2:G:983:THR:O	2:G:987:ARG:NH1	2.28	0.66
2:G:2165:LEU:HD11	2:G:2177:LEU:HD22	1.78	0.66
2:I:3010:PHE:O	2:I:3014:CYS:N	2.29	0.66
2:G:978:THR:N	2:G:981:GLN:OE1	2.29	0.66
2:G:3010:PHE:O	2:G:3014:CYS:N	2.29	0.66
2:G:3552:PHE:O	2:G:3556:ASN:ND2	2.28	0.66
2:I:683:ARG:NH2	2:I:709:ASP:OD2	2.27	0.66
2:I:929:LEU:HD23	2:I:932:LEU:HD12	1.77	0.66
2:I:978:THR:N	2:I:981:GLN:OE1	2.29	0.66
2:I:2823:ILE:HG13	2:I:2937:VAL:HG23	1.78	0.66
2:I:4701:TRP:HE1	2:I:4778:TRP:HA	1.61	0.66
2:A:1695:LEU:HB3	2:A:1810:LYS:HZ3	1.61	0.66
2:G:2788:HIS:HB3	2:G:2791:LEU:HG	1.78	0.66
2:B:4687:TYR:CE2	2:B:4692:PRO:HG3	2.32	0.66
2:B:4701:TRP:HE1	2:B:4778:TRP:HA	1.61	0.66
2:A:779:PRO:HB2	2:A:791:PHE:HZ	1.61	0.65
2:G:779:PRO:HB2	2:G:791:PHE:HZ	1.61	0.65
2:G:4248:ALA:O	2:G:4252:SER:N	2.28	0.65
2:B:2002:PRO:HD3	2:B:3638:MET:HE2	1.76	0.65
2:I:2384:ILE:HD13	2:I:2494:PHE:CE1	2.32	0.65
2:I:2788:HIS:HB3	2:I:2791:LEU:HG	1.78	0.65
2:A:1095:VAL:HB	2:A:1199:VAL:HG23	1.78	0.65
2:A:4687:TYR:CE2	2:A:4692:PRO:HG3	2.32	0.65
2:A:4843:LEU:HB2	2:G:4823:LEU:HD11	1.77	0.65
2:G:683:ARG:NH2	2:G:709:ASP:OD2	2.27	0.65
2:G:3150:HIS:HB3	2:G:3152:PHE:CD2	2.31	0.65
2:I:2165:LEU:HD11	2:I:2177:LEU:HD22	1.77	0.65
2:A:24:CYS:HB3	2:A:182:LEU:HD22	1.76	0.65
2:A:818:ARG:NH1	2:A:1027:LEU:O	2.28	0.65
2:A:1821:ASP:HA	2:A:1824:GLN:HB2	1.78	0.65
2:A:4823:LEU:HD12	2:B:4843:LEU:HD22	1.78	0.65
2:B:683:ARG:NH2	2:B:709:ASP:OD2	2.27	0.65
2:B:983:THR:O	2:B:987:ARG:NH1	2.29	0.65
2:I:890:GLY:HA3	2:I:902:ARG:HD3	1.78	0.65
2:A:3950:ASN:HA	2:A:3953:LYS:HZ2	1.61	0.65
2:G:818:ARG:NH1	2:G:1027:LEU:O	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1095:VAL:HB	2:G:1199:VAL:HG23	1.78	0.65
2:B:2165:LEU:HD11	2:B:2177:LEU:HD22	1.78	0.65
2:I:779:PRO:HB2	2:I:791:PHE:HZ	1.61	0.65
2:I:2750[B]:LYS:NZ	2:I:2823:ILE:O	2.28	0.65
2:A:2151:ASP:OD2	2:A:2189:LYS:NZ	2.20	0.65
2:A:4578:LEU:HD13	2:B:4849:TYR:CE1	2.31	0.65
2:G:3997:ALA:HB2	2:G:4058:ILE:HG12	1.78	0.65
2:G:4687:TYR:CE2	2:G:4692:PRO:HG3	2.32	0.65
2:G:652:ARG:HD3	2:G:773:LEU:HD13	1.79	0.65
2:G:4715:TYR:HD1	2:G:4717:ASP:H	1.44	0.65
2:B:573:GLU:OE1	2:B:573:GLU:N	2.25	0.65
2:B:779:PRO:HB2	2:B:791:PHE:HZ	1.61	0.65
2:B:3997:ALA:HB2	2:B:4058:ILE:HG12	1.78	0.65
2:I:1095:VAL:HB	2:I:1199:VAL:HG23	1.79	0.65
2:I:4687:TYR:CE2	2:I:4692:PRO:HG3	2.32	0.65
2:A:273:HIS:ND1	2:A:334:MET:O	2.27	0.65
2:G:2384:ILE:HD13	2:G:2494:PHE:CE1	2.32	0.65
2:B:273:HIS:ND1	2:B:334:MET:O	2.27	0.65
2:G:890:GLY:HA3	2:G:902:ARG:HD3	1.78	0.65
2:G:2537:ASP:O	2:G:2593:ARG:NH2	2.30	0.65
2:G:4701:TRP:HE1	2:G:4778:TRP:HA	1.61	0.65
2:B:652:ARG:HD3	2:B:773:LEU:HD13	1.79	0.65
2:B:1821:ASP:HA	2:B:1824:GLN:HB2	1.78	0.65
2:B:2537:ASP:O	2:B:2593:ARG:NH2	2.30	0.65
2:B:3150:HIS:HB3	2:B:3152:PHE:CD2	2.31	0.65
2:A:3535:LEU:O	2:A:3538:THR:HB	1.97	0.65
2:B:753:PRO:HG3	2:B:773:LEU:HD11	1.77	0.65
2:B:1095:VAL:HB	2:B:1199:VAL:HG23	1.79	0.65
2:B:3535:LEU:O	2:B:3538:THR:HB	1.97	0.65
2:I:652:ARG:HD3	2:I:773:LEU:HD13	1.79	0.65
2:A:1099:GLU:OE2	2:A:1101:ARG:NH2	2.30	0.65
2:A:3150:HIS:HB3	2:A:3152:PHE:CD2	2.31	0.65
2:A:4701:TRP:HE1	2:A:4778:TRP:HA	1.61	0.65
2:G:1099:GLU:OE2	2:G:1101:ARG:NH2	2.30	0.65
2:B:3010:PHE:O	2:B:3014:CYS:N	2.29	0.65
2:B:4237:PHE:HA	2:B:4240:ASP:HB2	1.79	0.65
2:I:2375:GLY:O	2:I:2379:ALA:N	2.29	0.65
2:I:3150:HIS:HB3	2:I:3152:PHE:CD2	2.31	0.65
2:A:4913:ARG:NH1	2:G:4888:TYR:OH	2.29	0.64
2:I:1099:GLU:OE2	2:I:1101:ARG:NH2	2.30	0.64
2:I:2537:ASP:O	2:I:2593:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3313:ASN:ND2	2:A:3350:ARG:H	1.96	0.64
2:G:3336:LYS:NZ	2:G:3462:ASN:O	2.30	0.64
2:B:1099:GLU:OE2	2:B:1101:ARG:NH2	2.30	0.64
2:I:978:THR:OG1	2:I:981:GLN:NE2	2.30	0.64
2:I:2751:LEU:HD13	2:I:2813:LEU:HB3	1.78	0.64
2:I:3313:ASN:ND2	2:I:3350:ARG:H	1.96	0.64
2:A:2703:LEU:HA	2:A:2706:ILE:HD12	1.80	0.64
2:A:3997:ALA:HB2	2:A:4058:ILE:HG12	1.78	0.64
2:G:73:LEU:C	2:G:105:HIS:HD1	2.06	0.64
2:G:2823:ILE:HG13	2:G:2937:VAL:HG23	1.77	0.64
2:I:3535:LEU:O	2:I:3538:THR:HB	1.97	0.64
2:A:2537:ASP:O	2:A:2593:ARG:NH2	2.30	0.64
2:A:3336:LYS:NZ	2:A:3462:ASN:O	2.30	0.64
2:B:890:GLY:HA3	2:B:902:ARG:HD3	1.78	0.64
2:I:3997:ALA:HB2	2:I:4058:ILE:HG12	1.78	0.64
2:A:652:ARG:HD3	2:A:773:LEU:HD13	1.79	0.64
2:A:890:GLY:HA3	2:A:902:ARG:HD3	1.78	0.64
2:A:978:THR:OG1	2:A:981:GLN:NE2	2.30	0.64
2:A:2375:GLY:O	2:A:2379:ALA:N	2.29	0.64
2:A:3374:ALA:O	2:A:3377:GLU:HG3	1.98	0.64
2:A:3632:VAL:O	2:A:3636:PHE:N	2.31	0.64
2:G:4866:SER:HB3	2:G:4873:ASP:HB3	1.79	0.64
2:B:2384:ILE:HD13	2:B:2494:PHE:CE1	2.32	0.64
2:B:2788:HIS:HB3	2:B:2791:LEU:HG	1.78	0.64
2:A:2751:LEU:HD13	2:A:2813:LEU:HB3	1.78	0.64
2:G:2285:GLU:OE1	2:G:2285:GLU:N	2.27	0.64
2:G:2751:LEU:HD13	2:G:2813:LEU:HB3	1.78	0.64
2:B:2358:ILE:HD12	2:I:195:PHE:CE1	2.33	0.64
2:B:2751:LEU:HD22	2:B:2813:LEU:HD22	1.80	0.64
2:B:4715:TYR:HD1	2:B:4717:ASP:H	1.44	0.64
2:I:2624:ARG:HH21	2:I:2906:VAL:HG21	1.63	0.64
2:I:3336:LYS:NZ	2:I:3462:ASN:O	2.30	0.64
2:A:1226:PHE:O	2:A:1827:ARG:NH1	2.31	0.64
2:A:2384:ILE:HD13	2:A:2494:PHE:CE1	2.32	0.64
2:A:2751:LEU:HD22	2:A:2813:LEU:HD22	1.80	0.64
2:A:2788:HIS:HB3	2:A:2791:LEU:HG	1.78	0.64
2:G:3535:LEU:O	2:G:3538:THR:HB	1.97	0.64
2:B:3336:LYS:NZ	2:B:3462:ASN:O	2.30	0.64
2:I:1226:PHE:O	2:I:1827:ARG:NH1	2.31	0.64
2:A:73:LEU:C	2:A:105:HIS:HD1	2.06	0.64
2:G:317:ARG:HH12	2:G:323:LEU:HD23	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2703:LEU:HA	2:B:2706:ILE:HD12	1.80	0.64
2:B:3313:ASN:ND2	2:B:3350:ARG:H	1.96	0.64
2:B:3544:ASP:HB3	2:B:3548:GLU:HB3	1.80	0.64
2:I:2751:LEU:HD22	2:I:2813:LEU:HD22	1.80	0.64
2:I:4237:PHE:HA	2:I:4240:ASP:HB2	1.79	0.64
2:I:4715:TYR:HD1	2:I:4717:ASP:H	1.44	0.64
2:A:3776:ALA:HB1	2:A:3816:MET:HG2	1.80	0.64
2:A:4715:TYR:HD1	2:A:4717:ASP:H	1.44	0.64
2:G:2001:PRO:HA	2:G:3638:MET:HG2	1.80	0.64
2:G:4877:ASP:O	2:I:4582:VAL:HG12	1.97	0.64
2:B:2751:LEU:HD13	2:B:2813:LEU:HB3	1.78	0.64
2:I:2001:PRO:HA	2:I:3638:MET:HG2	1.80	0.64
2:A:2737:PRO:O	2:A:2888:ARG:NH2	2.32	0.63
2:A:5031:GLN:HG2	2:A:5032:TYR:CE1	2.33	0.63
2:G:2703:LEU:HA	2:G:2706:ILE:HD12	1.80	0.63
2:B:61:ASP:OD2	2:B:402:ARG:NH2	2.31	0.63
2:B:978:THR:OG1	2:B:981:GLN:NE2	2.30	0.63
2:A:4215:ARG:NH2	3:A:5301:ATP:O2B	2.31	0.63
2:G:3374:ALA:O	2:G:3377:GLU:HG3	1.98	0.63
2:B:317:ARG:HH12	2:B:323:LEU:HD23	1.63	0.63
2:B:864:PRO:HD2	2:B:867:LEU:HD13	1.81	0.63
2:I:61:ASP:OD2	2:I:402:ARG:NH2	2.31	0.63
2:I:2703:LEU:HA	2:I:2706:ILE:HD12	1.80	0.63
2:I:2737:PRO:O	2:I:2888:ARG:NH2	2.31	0.63
2:I:4215:ARG:NH2	3:I:5301:ATP:O2B	2.31	0.63
2:A:317:ARG:HH12	2:A:323:LEU:HD23	1.63	0.63
2:A:4089:SER:HA	2:A:4122:MET:HA	1.81	0.63
2:A:4866:SER:HB3	2:A:4873:ASP:HB3	1.79	0.63
2:B:2624:ARG:HH21	2:B:2906:VAL:HG21	1.63	0.63
2:I:5031:GLN:HG2	2:I:5032:TYR:CE1	2.33	0.63
2:A:4237:PHE:HA	2:A:4240:ASP:HB2	1.79	0.63
2:G:1226:PHE:O	2:G:1827:ARG:NH1	2.31	0.63
2:G:2624:ARG:HH21	2:G:2906:VAL:HG21	1.63	0.63
2:G:4157:ASP:H	2:G:4161:ARG:NH1	1.97	0.63
2:B:5031:GLN:HG2	2:B:5032:TYR:CE1	2.34	0.63
2:I:976:ARG:HA	2:I:1044:ARG:HH12	1.64	0.63
2:I:4242:ILE:HA	2:I:4245:MET:SD	2.39	0.63
2:A:2001:PRO:HA	2:A:3638:MET:HG2	1.80	0.63
2:A:3950:ASN:HA	2:A:3953:LYS:NZ	2.14	0.63
2:G:3632:VAL:O	2:G:3636:PHE:N	2.31	0.63
2:G:4215:ARG:NH2	3:G:5301:ATP:O2B	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4242:ILE:HA	2:G:4245:MET:SD	2.39	0.63
2:B:3374:ALA:O	2:B:3377:GLU:HG3	1.98	0.63
2:B:4866:SER:HB3	2:B:4873:ASP:HB3	1.79	0.63
2:A:976:ARG:HA	2:A:1044:ARG:HH12	1.64	0.63
2:G:195:PHE:CE1	2:I:2358:ILE:HD12	2.33	0.63
2:G:2751:LEU:HD22	2:G:2813:LEU:HD22	1.80	0.63
2:B:1226:PHE:O	2:B:1827:ARG:NH1	2.31	0.63
2:B:3934:TYR:HB2	2:B:3999:MET:CE	2.29	0.63
2:B:3965:LEU:HB3	2:B:4026:MET:HE1	1.81	0.63
2:I:317:ARG:HH12	2:I:323:LEU:HD23	1.63	0.63
2:I:2285:GLU:OE1	2:I:2285:GLU:N	2.27	0.63
2:I:3544:ASP:HB3	2:I:3548:GLU:HB3	1.80	0.63
2:I:4866:SER:HB3	2:I:4873:ASP:HB3	1.79	0.63
2:G:976:ARG:HA	2:G:1044:ARG:HH12	1.64	0.63
2:G:2737:PRO:O	2:G:2888:ARG:NH2	2.32	0.63
2:B:976:ARG:HA	2:B:1044:ARG:HH12	1.64	0.63
2:I:2538:THR:HG23	2:I:2541:PHE:H	1.63	0.63
2:G:899:ASP:HA	2:G:904:HIS:HB3	1.81	0.63
2:G:3776:ALA:HB1	2:G:3816:MET:HG2	1.80	0.63
2:G:3934:TYR:HB2	2:G:3999:MET:CE	2.29	0.63
2:B:4215:ARG:NH2	3:B:5301:ATP:O2B	2.31	0.63
2:I:899:ASP:HA	2:I:904:HIS:HB3	1.81	0.63
2:I:3180:ASN:HB2	2:I:3183:VAL:HG13	1.81	0.63
2:A:4157:ASP:H	2:A:4161:ARG:NH1	1.97	0.63
2:G:173:SER:OG	2:G:176:SER:O	2.09	0.63
2:G:2375:GLY:O	2:G:2379:ALA:N	2.29	0.63
2:G:5031:GLN:HG2	2:G:5032:TYR:CE1	2.34	0.63
2:B:2001:PRO:HA	2:B:3638:MET:HG2	1.80	0.63
2:B:3527:PRO:HA	2:B:3530:GLN:HE22	1.64	0.63
2:B:4242:ILE:HA	2:B:4245:MET:SD	2.39	0.63
2:I:3965:LEU:HB3	2:I:4026:MET:HE1	1.81	0.63
2:I:4157:ASP:H	2:I:4161:ARG:NH1	1.97	0.63
2:A:112:ALA:O	2:A:115:ARG:NH1	2.32	0.62
2:A:173:SER:OG	2:A:176:SER:O	2.09	0.62
2:A:180:LEU:O	2:A:198:THR:OG1	2.15	0.62
2:A:864:PRO:HD2	2:A:867:LEU:HD13	1.81	0.62
2:A:2358:ILE:HD12	2:B:195:PHE:CE1	2.34	0.62
2:G:1815:LEU:HD22	2:G:1845:VAL:HG21	1.81	0.62
2:G:3544:ASP:HB2	2:G:3549:VAL:HG13	1.81	0.62
2:B:73:LEU:C	2:B:105:HIS:HD1	2.06	0.62
2:B:112:ALA:O	2:B:115:ARG:NH1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2375:GLY:O	2:B:2379:ALA:N	2.29	0.62
2:I:864:PRO:HD2	2:I:867:LEU:HD13	1.81	0.62
2:I:3166:TYR:HA	2:I:3169:LEU:HD12	1.81	0.62
2:I:3374:ALA:O	2:I:3377:GLU:HG3	1.98	0.62
2:I:3527:PRO:O	2:I:3529:ASP:N	2.32	0.62
2:I:3544:ASP:HB2	2:I:3549:VAL:HG13	1.81	0.62
2:A:61:ASP:OD2	2:A:402:ARG:NH2	2.31	0.62
2:A:2538:THR:HG23	2:A:2541:PHE:H	1.63	0.62
2:A:3934:TYR:HB2	2:A:3999:MET:CE	2.29	0.62
2:G:61:ASP:OD2	2:G:402:ARG:NH2	2.31	0.62
2:G:2443:ILE:HD12	2:G:2454:ARG:HD2	1.81	0.62
2:G:2538:THR:HG23	2:G:2541:PHE:H	1.63	0.62
2:G:3313:ASN:ND2	2:G:3350:ARG:H	1.96	0.62
2:G:3965:LEU:HB3	2:G:4026:MET:HE1	1.81	0.62
2:B:2737:PRO:O	2:B:2888:ARG:NH2	2.32	0.62
2:B:4088:ILE:O	2:B:4123:ILE:N	2.31	0.62
2:G:3527:PRO:O	2:G:3529:ASP:N	2.32	0.62
2:B:3180:ASN:HB2	2:B:3183:VAL:HG13	1.81	0.62
2:A:899:ASP:HA	2:A:904:HIS:HB3	1.81	0.62
2:G:1717:SER:HA	2:G:1721:GLU:HG3	1.81	0.62
2:G:3180:ASN:HB2	2:G:3183:VAL:HG13	1.81	0.62
2:B:657:THR:OG1	2:B:851:PHE:O	2.18	0.62
2:I:1815:LEU:HD22	2:I:1845:VAL:HG21	1.81	0.62
2:A:1658:ASP:OD1	2:A:1659:LEU:N	2.33	0.62
1:H:49:ARG:HH11	1:H:49:ARG:CB	2.11	0.62
2:G:730:VAL:HA	2:G:1476:MET:HE3	1.82	0.62
2:B:2233:CYS:SG	2:B:2270:SER:OG	2.56	0.62
2:B:4089:SER:HA	2:B:4122:MET:HA	1.80	0.62
2:I:1717:SER:HA	2:I:1721:GLU:HG3	1.81	0.62
2:I:3527:PRO:HA	2:I:3530:GLN:HE22	1.64	0.62
2:I:3776:ALA:HB1	2:I:3816:MET:HG2	1.80	0.62
2:I:3934:TYR:HB2	2:I:3999:MET:CE	2.29	0.62
2:A:2359:ARG:NH2	2:B:177:GLU:OE2	2.32	0.62
2:A:2443:ILE:HD12	2:A:2454:ARG:HD2	1.81	0.62
2:A:3166:TYR:HA	2:A:3169:LEU:HD12	1.82	0.62
2:A:4072:VAL:HG13	2:A:4125:PHE:HB2	1.82	0.62
2:A:4209:GLN:OE1	2:A:4209:GLN:N	2.26	0.62
2:A:4582:VAL:HG12	2:B:4877:ASP:O	2.00	0.62
2:G:1658:ASP:OD1	2:G:1659:LEU:N	2.33	0.62
2:G:4157:ASP:N	2:G:4161:ARG:HH12	1.98	0.62
2:G:4237:PHE:HA	2:G:4240:ASP:HB2	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3166:TYR:HA	2:B:3169:LEU:HD12	1.82	0.62
2:I:3206:LEU:HD13	2:I:3305:THR:HB	1.82	0.62
2:I:3989:VAL:HG11	2:I:4023:MET:HE2	1.82	0.62
2:I:4072:VAL:HG13	2:I:4125:PHE:HB2	1.82	0.62
2:A:2794:TYR:HA	2:A:2797:PHE:HB2	1.82	0.62
2:A:3527:PRO:HA	2:A:3530:GLN:HE22	1.64	0.62
2:A:3544:ASP:HB2	2:A:3549:VAL:HG13	1.81	0.62
2:A:3965:LEU:HB3	2:A:4026:MET:HE1	1.81	0.62
1:J:49:ARG:HH11	1:J:49:ARG:CB	2.11	0.62
2:G:2233:CYS:SG	2:G:2270:SER:OG	2.56	0.62
2:G:4088:ILE:O	2:G:4123:ILE:N	2.32	0.62
2:G:4089:SER:HA	2:G:4122:MET:HA	1.81	0.62
2:B:899:ASP:HA	2:B:904:HIS:HB3	1.81	0.62
2:B:4157:ASP:N	2:B:4161:ARG:HH12	1.98	0.62
2:B:4204:GLN:HB3	2:B:4245:MET:HE3	1.81	0.62
2:I:3937:TYR:CZ	2:I:3943:ILE:HB	2.35	0.62
2:I:4088:ILE:O	2:I:4123:ILE:N	2.32	0.62
2:G:978:THR:OG1	2:G:981:GLN:NE2	2.30	0.62
2:G:3206:LEU:HD13	2:G:3305:THR:HB	1.82	0.62
2:G:3544:ASP:HB3	2:G:3548:GLU:HB3	1.80	0.62
2:B:4157:ASP:H	2:B:4161:ARG:NH1	1.97	0.62
2:I:657:THR:OG1	2:I:851:PHE:O	2.18	0.62
2:I:3950:ASN:HA	2:I:3953:LYS:NZ	2.14	0.62
2:A:1815:LEU:HD22	2:A:1845:VAL:HG21	1.81	0.62
2:A:2621:HIS:O	2:A:2624:ARG:HB3	1.99	0.62
2:A:3180:ASN:HB2	2:A:3183:VAL:HG13	1.81	0.62
2:G:273:HIS:ND1	2:G:334:MET:O	2.27	0.62
2:G:2205:GLU:OE1	2:G:2205:GLU:N	2.33	0.62
2:G:3527:PRO:HA	2:G:3530:GLN:HE22	1.64	0.62
2:B:3776:ALA:HB1	2:B:3816:MET:HG2	1.80	0.62
2:B:4072:VAL:HG13	2:B:4125:PHE:HB2	1.82	0.62
2:I:1658:ASP:OD1	2:I:1659:LEU:N	2.33	0.62
2:I:3632:VAL:O	2:I:3636:PHE:N	2.31	0.62
2:A:404:ILE:HG23	2:A:483:MET:HE2	1.81	0.62
2:G:657:THR:OG1	2:G:851:PHE:O	2.18	0.62
2:G:4204:GLN:HB3	2:G:4245:MET:HE3	1.81	0.62
2:B:173:SER:OG	2:B:176:SER:O	2.09	0.62
2:B:2205:GLU:OE1	2:B:2205:GLU:N	2.33	0.62
2:B:3950:ASN:HA	2:B:3953:LYS:NZ	2.14	0.62
2:I:917:GLU:O	2:I:921:ASN:ND2	2.29	0.62
2:I:2443:ILE:HD12	2:I:2454:ARG:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2621:HIS:O	2:I:2624:ARG:HB3	1.99	0.62
2:I:4089:SER:HA	2:I:4122:MET:HA	1.80	0.62
2:A:730:VAL:HA	2:A:1476:MET:HE3	1.82	0.61
2:A:2624:ARG:NH2	2:A:2911:LEU:HD12	2.15	0.61
2:G:2624:ARG:NH2	2:G:2911:LEU:HD12	2.15	0.61
2:B:2006:ILE:HD12	2:B:3652:MET:HE3	1.82	0.61
2:B:2621:HIS:O	2:B:2624:ARG:HB3	1.99	0.61
2:B:2794:TYR:HA	2:B:2797:PHE:HB2	1.82	0.61
2:I:112:ALA:O	2:I:115:ARG:NH1	2.32	0.61
2:I:2006:ILE:HD12	2:I:3652:MET:HE3	1.82	0.61
2:A:265:LEU:HD13	2:A:279:PRO:O	2.00	0.61
2:A:657:THR:OG1	2:A:851:PHE:O	2.18	0.61
2:A:1717:SER:HA	2:A:1721:GLU:HG3	1.81	0.61
2:A:2624:ARG:HH21	2:A:2906:VAL:HG21	1.63	0.61
2:A:4157:ASP:N	2:A:4161:ARG:HH12	1.98	0.61
2:G:2621:HIS:O	2:G:2624:ARG:HB3	1.99	0.61
2:G:2693:GLN:HB3	2:G:2697:ARG:HH12	1.65	0.61
2:B:404:ILE:HG23	2:B:483:MET:HE2	1.81	0.61
2:B:2538:THR:HG23	2:B:2541:PHE:H	1.63	0.61
2:I:2233:CYS:SG	2:I:2270:SER:OG	2.56	0.61
2:A:2755:ILE:HA	2:A:2809:ILE:HG21	1.81	0.61
2:A:3527:PRO:O	2:A:3529:ASP:N	2.32	0.61
2:A:4242:ILE:HA	2:A:4245:MET:SD	2.39	0.61
2:G:265:LEU:HD13	2:G:279:PRO:O	2.00	0.61
2:G:3937:TYR:CZ	2:G:3943:ILE:HB	2.35	0.61
2:G:3950:ASN:HA	2:G:3953:LYS:NZ	2.14	0.61
2:G:4072:VAL:HG13	2:G:4125:PHE:HB2	1.82	0.61
2:B:2624:ARG:NH2	2:B:2911:LEU:HD12	2.15	0.61
2:B:2755:ILE:HA	2:B:2809:ILE:HG21	1.81	0.61
2:B:3829:PHE:HE1	2:B:3902:TYR:HE2	1.49	0.61
2:A:2205:GLU:N	2:A:2205:GLU:OE1	2.33	0.61
2:A:2693:GLN:HB3	2:A:2697:ARG:HH12	1.65	0.61
2:A:4849:TYR:HE1	2:G:4578:LEU:HD13	1.65	0.61
2:G:864:PRO:HD2	2:G:867:LEU:HD13	1.81	0.61
2:B:3206:LEU:HD13	2:B:3305:THR:HB	1.82	0.61
2:B:3937:TYR:CZ	2:B:3943:ILE:HB	2.35	0.61
2:I:2205:GLU:N	2:I:2205:GLU:OE1	2.33	0.61
2:I:3829:PHE:HE1	2:I:3902:TYR:HE2	1.49	0.61
2:I:4700:GLN:HA	2:I:4703:ARG:HG3	1.82	0.61
2:A:3989:VAL:HG11	2:A:4023:MET:HE2	1.82	0.61
2:G:3166:TYR:HA	2:G:3169:LEU:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:265:LEU:HD13	2:B:279:PRO:O	2.00	0.61
2:I:730:VAL:HA	2:I:1476:MET:HE3	1.82	0.61
2:G:2689:LYS:O	2:G:2993:GLN:NE2	2.34	0.61
2:G:2755:ILE:HA	2:G:2809:ILE:HG21	1.81	0.61
2:G:2794:TYR:HA	2:G:2797:PHE:HB2	1.82	0.61
2:B:1695:LEU:HB3	2:B:1810:LYS:HZ3	1.65	0.61
2:B:2443:ILE:HD12	2:B:2454:ARG:HD2	1.81	0.61
2:I:2693:GLN:HB3	2:I:2697:ARG:HH12	1.65	0.61
2:I:2794:TYR:HA	2:I:2797:PHE:HB2	1.82	0.61
2:A:47:CYS:HB2	2:A:135:VAL:HG23	1.83	0.61
2:G:3386:GLU:HA	2:G:3389:GLU:HB2	1.83	0.61
2:G:3989:VAL:HG11	2:G:4023:MET:HE2	1.82	0.61
2:B:2689:LYS:O	2:B:2993:GLN:NE2	2.34	0.61
2:B:2693:GLN:HB3	2:B:2697:ARG:HH12	1.65	0.61
2:I:1695:LEU:HB3	2:I:1810:LYS:HZ3	1.64	0.61
2:I:4204:GLN:HB3	2:I:4245:MET:HE3	1.81	0.61
1:F:49:ARG:HH11	1:F:49:ARG:CB	2.11	0.61
2:A:3829:PHE:HE1	2:A:3902:TYR:HE2	1.49	0.61
2:A:3937:TYR:CZ	2:A:3943:ILE:HB	2.35	0.61
2:A:4863:TYR:HB2	2:A:4874:MET:HE1	1.83	0.61
1:O:49:ARG:HH11	1:O:49:ARG:CB	2.11	0.61
2:G:4700:GLN:HA	2:G:4703:ARG:HG3	1.82	0.61
2:B:1658:ASP:OD1	2:B:1659:LEU:N	2.33	0.61
2:B:2461:VAL:O	2:B:2510:TYR:OH	2.10	0.61
2:B:3527:PRO:O	2:B:3529:ASP:N	2.32	0.61
2:A:2458:ARG:NH1	2:A:2509:VAL:O	2.34	0.61
2:A:4204:GLN:HB3	2:A:4245:MET:HE3	1.81	0.61
2:G:652:ARG:HH21	2:G:773:LEU:HD13	1.66	0.61
2:B:215:THR:HG22	2:B:273:HIS:HA	1.83	0.61
2:B:1815:LEU:HD22	2:B:1845:VAL:HG21	1.81	0.61
2:B:3544:ASP:HB2	2:B:3549:VAL:HG13	1.81	0.61
2:B:4863:TYR:HB2	2:B:4874:MET:HE1	1.83	0.61
2:I:652:ARG:HH21	2:I:773:LEU:HD13	1.66	0.61
2:I:2624:ARG:NH2	2:I:2911:LEU:HD12	2.15	0.61
2:I:4157:ASP:N	2:I:4161:ARG:HH12	1.98	0.61
2:A:3150:HIS:HB3	2:A:3152:PHE:HD2	1.66	0.61
2:A:3998:HIS:CE1	2:A:4057:MET:HE1	2.36	0.61
2:G:3989:VAL:HA	2:G:3992:PHE:HB2	1.83	0.61
2:I:404:ILE:HG23	2:I:483:MET:HE2	1.81	0.61
2:I:1084:GLN:NE2	2:I:1186:ASP:O	2.33	0.61
2:I:2627:VAL:HG21	2:I:2674:LEU:HD11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2689:LYS:O	2:I:2993:GLN:NE2	2.34	0.61
2:A:2006:ILE:HD12	2:A:3652:MET:HE3	1.82	0.60
2:G:27:THR:OG1	2:G:32:GLN:OE1	2.19	0.60
2:G:404:ILE:HG23	2:G:483:MET:HE2	1.81	0.60
2:G:2592:GLY:O	2:G:2600:ARG:NH2	2.34	0.60
2:B:47:CYS:HB2	2:B:135:VAL:HG23	1.83	0.60
2:B:3150:HIS:HB3	2:B:3152:PHE:HD2	1.66	0.60
2:I:215:THR:HG22	2:I:273:HIS:HA	1.83	0.60
2:I:3150:HIS:HB3	2:I:3152:PHE:HD2	1.66	0.60
2:I:3534:MET:O	2:I:3538:THR:N	2.26	0.60
2:A:2627:VAL:HG21	2:A:2674:LEU:HD11	1.83	0.60
2:A:3386:GLU:HA	2:A:3389:GLU:HB2	1.83	0.60
2:A:3544:ASP:HB3	2:A:3548:GLU:HB3	1.80	0.60
2:G:112:ALA:O	2:G:115:ARG:NH1	2.33	0.60
2:G:2006:ILE:HD12	2:G:3652:MET:HE3	1.82	0.60
2:G:2449:GLU:O	2:G:2453:ILE:HG12	2.02	0.60
2:G:2627:VAL:HG21	2:G:2674:LEU:HD11	1.83	0.60
2:G:2693:GLN:HG3	2:G:2996:LYS:HE3	1.84	0.60
2:G:4046:ASP:HA	2:G:4049:VAL:HG22	1.83	0.60
2:B:180:LEU:O	2:B:198:THR:OG1	2.15	0.60
2:B:652:ARG:HH21	2:B:773:LEU:HD13	1.66	0.60
2:B:2596:THR:O	2:B:2599:GLN:N	2.31	0.60
2:B:3989:VAL:HG11	2:B:4023:MET:HE2	1.82	0.60
2:I:27:THR:OG1	2:I:32:GLN:OE1	2.19	0.60
2:I:47:CYS:HB2	2:I:135:VAL:HG23	1.83	0.60
2:I:459:LEU:HD21	2:I:463:GLU:HB2	1.83	0.60
2:I:1770:SER:OG	2:I:1772:ARG:NH1	2.35	0.60
2:I:4046:ASP:HA	2:I:4049:VAL:HG22	1.83	0.60
2:A:215:THR:HG22	2:A:273:HIS:HA	1.83	0.60
2:G:215:THR:HG22	2:G:273:HIS:HA	1.83	0.60
2:G:3825:GLU:OE2	2:G:3826:VAL:N	2.34	0.60
2:G:3829:PHE:HE1	2:G:3902:TYR:HE2	1.48	0.60
2:B:2333:ASP:HA	2:B:2336:ARG:HE	1.66	0.60
2:B:2868:SER:H	2:B:2871:LEU:HD12	1.67	0.60
2:B:3632:VAL:O	2:B:3636:PHE:N	2.31	0.60
2:B:4046:ASP:HA	2:B:4049:VAL:HG22	1.83	0.60
2:I:461:HIS:NE2	2:I:3707:ARG:HG3	2.17	0.60
2:I:2449:GLU:O	2:I:2453:ILE:HG12	2.01	0.60
2:I:3607:GLU:O	2:I:3611:HIS:ND1	2.34	0.60
2:A:652:ARG:HH21	2:A:773:LEU:HD13	1.66	0.60
2:A:1770:SER:OG	2:A:1772:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2868:SER:H	2:A:2871:LEU:HD12	1.67	0.60
2:A:3989:VAL:HA	2:A:3992:PHE:HB2	1.83	0.60
2:G:180:LEU:O	2:G:198:THR:OG1	2.15	0.60
2:G:707:VAL:HG23	2:G:782:SER:HB3	1.83	0.60
2:G:2868:SER:H	2:G:2871:LEU:HD12	1.67	0.60
2:B:27:THR:OG1	2:B:32:GLN:OE1	2.19	0.60
2:B:1717:SER:HA	2:B:1721:GLU:HG3	1.81	0.60
2:B:3090:ALA:HA	2:B:3093:ARG:HH21	1.66	0.60
2:B:4687:TYR:CD2	2:B:4692:PRO:HG3	2.36	0.60
2:I:73:LEU:C	2:I:105:HIS:HD1	2.06	0.60
2:I:1935:VAL:HG12	2:I:1939:MET:HE1	1.83	0.60
2:I:3386:GLU:HA	2:I:3389:GLU:HB2	1.83	0.60
2:A:1084:GLN:NE2	2:A:1186:ASP:O	2.33	0.60
2:A:2333:ASP:HA	2:A:2336:ARG:HE	1.66	0.60
2:A:4046:ASP:HA	2:A:4049:VAL:HG22	1.83	0.60
2:A:4088:ILE:N	2:A:4123:ILE:O	2.29	0.60
1:J:54:GLU:H	1:J:54:GLU:CD	2.08	0.60
2:G:1770:SER:OG	2:G:1772:ARG:NH1	2.34	0.60
2:G:2458:ARG:NH1	2:G:2509:VAL:O	2.34	0.60
2:B:459:LEU:HD21	2:B:463:GLU:HB2	1.83	0.60
2:B:461:HIS:NE2	2:B:3707:ARG:HG3	2.17	0.60
2:B:1770:SER:OG	2:B:1772:ARG:NH1	2.34	0.60
2:B:3607:GLU:O	2:B:3611:HIS:ND1	2.34	0.60
2:B:4700:GLN:HA	2:B:4703:ARG:HG3	1.82	0.60
2:I:707:VAL:HG23	2:I:782:SER:HB3	1.83	0.60
2:I:2693:GLN:HG3	2:I:2996:LYS:HE3	1.84	0.60
2:I:2755:ILE:HA	2:I:2809:ILE:HG21	1.81	0.60
2:I:2868:SER:H	2:I:2871:LEU:HD12	1.67	0.60
2:I:3998:HIS:CE1	2:I:4057:MET:HE1	2.36	0.60
2:A:461:HIS:NE2	2:A:3707:ARG:HG3	2.17	0.60
2:A:3206:LEU:HD13	2:A:3305:THR:HB	1.82	0.60
2:G:1695:LEU:HB3	2:G:1810:LYS:HZ3	1.65	0.60
2:G:3998:HIS:CE1	2:G:4057:MET:HE1	2.36	0.60
2:B:730:VAL:HA	2:B:1476:MET:HE3	1.82	0.60
2:B:2504:LEU:O	2:B:2508:ARG:HB2	2.02	0.60
2:B:3147:ILE:O	2:B:3151:GLN:N	2.35	0.60
2:B:4993:MET:HA	2:B:4996:ILE:HG22	1.84	0.60
2:I:265:LEU:HD13	2:I:279:PRO:O	2.01	0.60
2:I:2333:ASP:HA	2:I:2336:ARG:HE	1.66	0.60
2:A:27:THR:OG1	2:A:32:GLN:OE1	2.19	0.60
2:A:2504:LEU:O	2:A:2508:ARG:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2592:GLY:O	2:A:2600:ARG:NH2	2.34	0.60
2:A:4687:TYR:CD2	2:A:4692:PRO:HG3	2.36	0.60
2:A:4700:GLN:HA	2:A:4703:ARG:HG3	1.82	0.60
2:G:47:CYS:HB2	2:G:135:VAL:HG23	1.83	0.60
2:G:261:ARG:NH1	2:G:263:GLU:OE2	2.35	0.60
2:G:2970:SER:HA	2:G:2973:PHE:HB3	1.84	0.60
2:B:1084:GLN:NE2	2:B:1186:ASP:O	2.33	0.60
2:B:2151:ASP:OD2	2:B:2189:LYS:NZ	2.20	0.60
2:B:3998:HIS:CE1	2:B:4057:MET:HE1	2.36	0.60
2:I:261:ARG:NH1	2:I:263:GLU:OE2	2.35	0.60
2:I:3989:VAL:HA	2:I:3992:PHE:HB2	1.83	0.60
2:I:4993:MET:HA	2:I:4996:ILE:HG22	1.84	0.60
2:A:1543:GLU:O	2:A:1546:THR:OG1	2.17	0.60
2:A:2689:LYS:O	2:A:2993:GLN:NE2	2.34	0.60
2:G:3150:HIS:HB3	2:G:3152:PHE:HD2	1.66	0.60
2:G:4230:LYS:HA	2:G:4233:LEU:HB2	1.83	0.60
2:B:2458:ARG:NH1	2:B:2509:VAL:O	2.34	0.60
2:B:2970:SER:HA	2:B:2973:PHE:HB3	1.84	0.60
2:I:2458:ARG:NH1	2:I:2509:VAL:O	2.34	0.60
2:A:2693:GLN:HG3	2:A:2996:LYS:HE3	1.84	0.60
2:G:459:LEU:HD21	2:G:463:GLU:HB2	1.83	0.60
2:B:4088:ILE:N	2:B:4123:ILE:O	2.29	0.60
2:I:2592:GLY:O	2:I:2600:ARG:NH2	2.34	0.60
2:I:3147:ILE:O	2:I:3151:GLN:N	2.35	0.60
2:I:4687:TYR:CD2	2:I:4692:PRO:HG3	2.36	0.60
2:A:261:ARG:NH1	2:A:263:GLU:OE2	2.35	0.60
2:A:3607:GLU:O	2:A:3611:HIS:ND1	2.34	0.60
2:A:3825:GLU:OE2	2:A:3826:VAL:N	2.34	0.60
2:G:2559:LEU:HB3	2:G:2606:CYS:SG	2.42	0.60
2:G:4687:TYR:CD2	2:G:4692:PRO:HG3	2.36	0.60
2:A:2970:SER:HA	2:A:2973:PHE:HB3	1.84	0.59
2:A:3283:ARG:HD3	2:A:3287:ARG:NH2	2.17	0.59
2:A:3450:ASN:HA	2:A:3453:ARG:HG2	1.84	0.59
2:A:4049:VAL:HG11	2:A:4159:ARG:HD2	1.84	0.59
2:G:3090:ALA:HA	2:G:3093:ARG:HH21	1.66	0.59
2:G:3450:ASN:HA	2:G:3453:ARG:HG2	1.84	0.59
2:G:3607:GLU:O	2:G:3611:HIS:ND1	2.34	0.59
2:G:4049:VAL:HG11	2:G:4159:ARG:HD2	1.85	0.59
2:B:2449:GLU:O	2:B:2453:ILE:HG12	2.01	0.59
2:B:2592:GLY:O	2:B:2600:ARG:NH2	2.34	0.59
2:B:3283:ARG:HD3	2:B:3287:ARG:NH2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3386:GLU:HA	2:B:3389:GLU:HB2	1.83	0.59
2:A:177:GLU:OE2	2:G:2359:ARG:NH2	2.35	0.59
2:G:2504:LEU:O	2:G:2508:ARG:HB2	2.02	0.59
2:G:3879:GLU:OE1	2:G:3879:GLU:N	2.33	0.59
2:B:3065:VAL:HA	2:B:3068:LEU:HD12	1.84	0.59
2:B:4049:VAL:HG11	2:B:4159:ARG:HD2	1.84	0.59
2:I:2504:LEU:O	2:I:2508:ARG:HB2	2.02	0.59
2:I:3825:GLU:OE2	2:I:3826:VAL:N	2.34	0.59
2:A:2449:GLU:O	2:A:2453:ILE:HG12	2.02	0.59
2:A:2596:THR:O	2:A:2599:GLN:N	2.31	0.59
2:A:3090:ALA:HA	2:A:3093:ARG:HH21	1.66	0.59
2:A:3147:ILE:O	2:A:3151:GLN:N	2.35	0.59
2:A:4088:ILE:O	2:A:4123:ILE:N	2.32	0.59
1:O:48:PHE:HB2	1:O:54:GLU:HG2	1.85	0.59
2:G:461:HIS:NE2	2:G:3707:ARG:HG3	2.17	0.59
2:G:1935:VAL:HG12	2:G:1939:MET:HE1	1.84	0.59
2:B:261:ARG:NH1	2:B:263:GLU:OE2	2.35	0.59
2:B:2693:GLN:HG3	2:B:2996:LYS:HE3	1.84	0.59
2:B:4230:LYS:HA	2:B:4233:LEU:HB2	1.83	0.59
2:I:2191:PHE:HA	2:I:2198:MET:HE3	1.84	0.59
2:I:3065:VAL:HA	2:I:3068:LEU:HD12	1.85	0.59
2:A:1935:VAL:HG12	2:A:1939:MET:HE1	1.83	0.59
2:A:2285:GLU:OE1	2:A:2285:GLU:N	2.27	0.59
1:H:48:PHE:HB2	1:H:54:GLU:HG2	1.85	0.59
2:G:2153:MET:HE2	2:G:2153:MET:HA	1.84	0.59
2:G:4863:TYR:HB2	2:G:4874:MET:HE1	1.83	0.59
2:B:1935:VAL:HG12	2:B:1939:MET:HE1	1.83	0.59
2:B:3825:GLU:OE2	2:B:3826:VAL:N	2.34	0.59
2:B:3934:TYR:O	2:B:3938:SER:HB3	2.02	0.59
2:I:3960:GLN:NE2	2:I:3960:GLN:O	2.35	0.59
2:I:4863:TYR:HB2	2:I:4874:MET:HE1	1.83	0.59
2:A:3542:LEU:HD22	2:A:3544:ASP:OD1	2.02	0.59
2:G:3147:ILE:O	2:G:3151:GLN:N	2.35	0.59
2:G:3960:GLN:O	2:G:3960:GLN:NE2	2.35	0.59
2:B:707:VAL:HG23	2:B:782:SER:HB3	1.83	0.59
2:B:709:ASP:OD1	2:B:725:HIS:ND1	2.31	0.59
2:B:2559:LEU:HB3	2:B:2606:CYS:SG	2.42	0.59
2:B:3960:GLN:O	2:B:3960:GLN:NE2	2.35	0.59
2:I:3035:GLU:HA	2:I:3038:MET:HE2	1.85	0.59
2:I:3542:LEU:HD22	2:I:3544:ASP:OD1	2.02	0.59
2:A:3934:TYR:O	2:A:3938:SER:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4230:LYS:HA	2:A:4233:LEU:HB2	1.83	0.59
2:G:2151:ASP:OD2	2:G:2189:LYS:NZ	2.20	0.59
2:G:2570:ALA:HB2	2:G:2613:TYR:HB3	1.84	0.59
2:G:3542:LEU:HD22	2:G:3544:ASP:OD1	2.02	0.59
2:G:4157:ASP:H	2:G:4161:ARG:HH12	1.49	0.59
2:G:4993:MET:HA	2:G:4996:ILE:HG22	1.84	0.59
2:B:2153:MET:HE2	2:B:2153:MET:HA	1.84	0.59
2:B:2191:PHE:HA	2:B:2198:MET:HE3	1.84	0.59
2:B:2627:VAL:HG21	2:B:2674:LEU:HD11	1.83	0.59
2:B:3534:MET:O	2:B:3538:THR:N	2.26	0.59
2:B:3951:PHE:HD2	2:B:4012:LEU:HD21	1.68	0.59
2:I:173:SER:OG	2:I:176:SER:O	2.09	0.59
2:I:176:SER:OG	2:I:178:ARG:NE	2.36	0.59
2:I:2153:MET:HA	2:I:2153:MET:HE2	1.84	0.59
2:I:2970:SER:HA	2:I:2973:PHE:HB3	1.84	0.59
2:I:4049:VAL:HG11	2:I:4159:ARG:HD2	1.84	0.59
2:A:459:LEU:HD21	2:A:463:GLU:HB2	1.83	0.59
2:A:2559:LEU:HB3	2:A:2606:CYS:SG	2.42	0.59
2:A:3960:GLN:NE2	2:A:3960:GLN:O	2.35	0.59
2:B:2285:GLU:OE1	2:B:2285:GLU:N	2.27	0.59
2:B:3989:VAL:HA	2:B:3992:PHE:HB2	1.83	0.59
2:I:76:ARG:NH1	2:I:80:GLU:OE2	2.36	0.59
2:I:1183:GLU:OE1	2:I:1183:GLU:N	2.32	0.59
2:I:3950:ASN:HA	2:I:3953:LYS:HZ2	1.68	0.59
2:I:4157:ASP:H	2:I:4161:ARG:HH12	1.49	0.59
2:A:1183:GLU:OE1	2:A:1183:GLU:N	2.32	0.59
2:G:103:TYR:O	2:G:160:GLY:N	2.35	0.59
2:G:640:TYR:HE1	2:G:1636:MET:HE2	1.68	0.59
2:G:3380:ARG:HH21	2:G:3391:GLU:HG3	1.68	0.59
2:B:3313:ASN:HD22	2:B:3350:ARG:HE	1.51	0.59
2:B:3542:LEU:HD22	2:B:3544:ASP:OD1	2.02	0.59
2:I:3090:ALA:HA	2:I:3093:ARG:HH21	1.66	0.59
2:I:3380:ARG:HH21	2:I:3391:GLU:HG3	1.68	0.59
2:I:4087:LEU:HA	2:I:4124:ASN:HA	1.85	0.59
2:A:2570:ALA:HB2	2:A:2613:TYR:HB3	1.84	0.59
2:A:3215:ALA:O	2:A:3221:THR:OG1	2.20	0.59
2:B:176:SER:OG	2:B:178:ARG:NE	2.36	0.59
2:I:3467:MET:HE1	2:I:3507:THR:HG21	1.85	0.59
1:F:48:PHE:HB2	1:F:54:GLU:HG2	1.85	0.59
2:A:176:SER:OG	2:A:178:ARG:NE	2.36	0.59
2:A:3534:MET:O	2:A:3538:THR:N	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3879:GLU:OE1	2:A:3879:GLU:N	2.33	0.59
2:A:4843:LEU:HD22	2:G:4823:LEU:HD12	1.84	0.59
2:G:3035:GLU:HA	2:G:3038:MET:HE2	1.85	0.59
2:B:277:GLY:HA2	2:B:315:CYS:HB3	1.85	0.59
2:B:949:ASN:HB3	2:B:974:HIS:NE2	2.18	0.59
2:B:3380:ARG:HH21	2:B:3391:GLU:HG3	1.68	0.59
2:I:103:TYR:O	2:I:160:GLY:N	2.35	0.59
2:A:3065:VAL:HA	2:A:3068:LEU:HD12	1.84	0.58
2:A:3380:ARG:HH21	2:A:3391:GLU:HG3	1.68	0.58
2:A:4237:PHE:HD1	2:A:4672:LYS:HZ2	1.50	0.58
2:A:4993:MET:HA	2:A:4996:ILE:HG22	1.84	0.58
2:G:2674:LEU:HA	2:G:2677:LYS:HZ1	1.68	0.58
2:G:4087:LEU:HA	2:G:4124:ASN:HA	1.85	0.58
2:B:3035:GLU:HA	2:B:3038:MET:HE2	1.85	0.58
2:I:2751:LEU:HB3	2:I:2813:LEU:HD13	1.85	0.58
2:A:3313:ASN:HD22	2:A:3350:ARG:HE	1.51	0.58
1:J:48:PHE:HB2	1:J:54:GLU:HG2	1.85	0.58
2:G:76:ARG:NH1	2:G:80:GLU:OE2	2.36	0.58
2:G:949:ASN:HB3	2:G:974:HIS:NE2	2.18	0.58
2:B:2751:LEU:HB3	2:B:2813:LEU:HD13	1.85	0.58
2:I:74:SER:HG	2:I:77:ALA:H	1.49	0.58
2:I:949:ASN:HB3	2:I:974:HIS:NE2	2.18	0.58
2:I:1152:MET:HE1	2:I:1163:THR:HG23	1.85	0.58
2:I:3879:GLU:OE1	2:I:3879:GLU:N	2.33	0.58
2:I:4230:LYS:HA	2:I:4233:LEU:HB2	1.83	0.58
2:A:103:TYR:O	2:A:160:GLY:N	2.35	0.58
2:G:3283:ARG:HD3	2:G:3287:ARG:NH2	2.17	0.58
2:B:3467:MET:HE1	2:B:3507:THR:HG21	1.85	0.58
2:B:4087:LEU:HA	2:B:4124:ASN:HA	1.85	0.58
2:I:3283:ARG:HD3	2:I:3287:ARG:NH2	2.17	0.58
2:A:76:ARG:NH1	2:A:80:GLU:OE2	2.36	0.58
2:A:949:ASN:HB3	2:A:974:HIS:NE2	2.18	0.58
2:A:2377:LEU:HD21	2:A:2468:GLY:HA3	1.86	0.58
2:A:2579:VAL:HB	2:A:2618:MET:HE3	1.86	0.58
2:A:2954:ARG:HB3	2:A:2957:PHE:HB2	1.86	0.58
2:A:4087:LEU:HA	2:A:4124:ASN:HA	1.85	0.58
2:G:2333:ASP:HA	2:G:2336:ARG:HE	1.66	0.58
2:B:640:TYR:HE1	2:B:1636:MET:HE2	1.68	0.58
2:B:3822:ASP:OD1	2:B:3823:LYS:N	2.37	0.58
2:I:180:LEU:O	2:I:198:THR:OG1	2.15	0.58
2:A:1652:GLU:OE2	2:A:1656:ARG:NH2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:176:SER:OG	2:G:178:ARG:NE	2.36	0.58
2:G:1089:TYR:HD2	2:G:1152:MET:HG3	1.69	0.58
2:G:2191:PHE:HA	2:G:2198:MET:HE3	1.84	0.58
2:G:3065:VAL:HA	2:G:3068:LEU:HD12	1.84	0.58
2:G:3323:ILE:HG21	2:G:3408:LEU:HD21	1.85	0.58
2:G:3934:TYR:O	2:G:3938:SER:HB3	2.02	0.58
2:B:2562:ILE:HG22	2:B:2610:LEU:HD21	1.86	0.58
2:I:1089:TYR:HD2	2:I:1152:MET:HG3	1.69	0.58
2:I:2559:LEU:HB3	2:I:2606:CYS:SG	2.42	0.58
2:I:2596:THR:O	2:I:2599:GLN:N	2.31	0.58
2:I:3380:ARG:HA	2:I:3387:ALA:HB1	1.84	0.58
2:I:3951:PHE:HD2	2:I:4012:LEU:HD21	1.68	0.58
2:A:195:PHE:CE1	2:G:2358:ILE:HD12	2.39	0.58
2:A:707:VAL:HG23	2:A:782:SER:HB3	1.83	0.58
2:A:1279:SER:N	2:A:1282:SER:OG	2.36	0.58
2:A:2751:LEU:HB3	2:A:2813:LEU:HD13	1.85	0.58
2:A:3951:PHE:HD2	2:A:4012:LEU:HD21	1.68	0.58
2:G:277:GLY:HA2	2:G:315:CYS:HB3	1.85	0.58
2:G:1084:GLN:NE2	2:G:1186:ASP:O	2.33	0.58
2:G:1152:MET:HE1	2:G:1163:THR:HG23	1.85	0.58
2:G:2377:LEU:HD21	2:G:2468:GLY:HA3	1.86	0.58
2:G:2751:LEU:HB3	2:G:2813:LEU:HD13	1.85	0.58
2:B:1183:GLU:OE1	2:B:1183:GLU:N	2.32	0.58
2:B:2579:VAL:HB	2:B:2618:MET:HE3	1.86	0.58
2:B:3450:ASN:HA	2:B:3453:ARG:HG2	1.84	0.58
2:B:3451:PHE:O	2:B:3455:GLU:HG2	2.03	0.58
2:I:277:GLY:HA2	2:I:315:CYS:HB3	1.85	0.58
2:A:2490:MET:HE2	2:A:2496:PRO:HD3	1.86	0.58
2:A:3323:ILE:HG21	2:A:3408:LEU:HD21	1.85	0.58
2:A:3380:ARG:HA	2:A:3387:ALA:HB1	1.84	0.58
2:G:2301:TYR:HB3	2:G:2331:TYR:CZ	2.39	0.58
2:B:2490:MET:HE2	2:B:2496:PRO:HD3	1.86	0.58
2:I:1652:GLU:OE2	2:I:1656:ARG:NH2	2.36	0.58
1:F:54:GLU:H	1:F:54:GLU:CD	2.08	0.58
2:A:3053:ARG:HG2	2:A:3056:LEU:HD21	1.85	0.58
2:A:4569:LEU:HD22	2:A:4650:HIS:HB2	1.85	0.58
2:A:4794:TRP:HE1	2:A:4798:MET:HE2	1.69	0.58
1:H:54:GLU:H	1:H:54:GLU:CD	2.08	0.58
2:B:76:ARG:NH1	2:B:80:GLU:OE2	2.36	0.58
2:B:1652:GLU:OE2	2:B:1656:ARG:NH2	2.36	0.58
2:B:4237:PHE:HD1	2:B:4672:LYS:HZ2	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2336:ARG:NH1	2:I:2431:ASP:OD2	2.36	0.58
2:A:1152:MET:HE1	2:A:1163:THR:HG23	1.85	0.58
2:A:2336:ARG:NH1	2:A:2431:ASP:OD2	2.36	0.58
2:G:2211:MET:HB2	2:G:2232:CYS:SG	2.44	0.58
2:G:3822:ASP:OD1	2:G:3823:LYS:N	2.37	0.58
2:G:4794:TRP:HE1	2:G:4798:MET:HE2	1.69	0.58
2:G:4843:LEU:HD22	2:I:4823:LEU:HD12	1.86	0.58
2:B:917:GLU:O	2:B:921:ASN:ND2	2.29	0.58
2:B:3950:ASN:HA	2:B:3953:LYS:HZ2	1.67	0.58
2:I:2570:ALA:HB2	2:I:2613:TYR:HB3	1.84	0.58
2:I:2638:LYS:HZ1	2:I:2694:GLU:HB2	1.69	0.58
2:I:3314:SER:O	2:I:3318:ASN:ND2	2.34	0.58
2:I:3450:ASN:HA	2:I:3453:ARG:HG2	1.84	0.58
2:I:3934:TYR:O	2:I:3938:SER:HB3	2.02	0.58
2:I:3995:VAL:HG13	2:I:3999:MET:HE3	1.86	0.58
2:A:2153:MET:HA	2:A:2153:MET:HE2	1.84	0.58
2:A:2191:PHE:HA	2:A:2198:MET:HE3	1.84	0.58
2:G:394:GLN:N	2:G:397:GLU:OE2	2.36	0.58
2:G:2490:MET:HE2	2:G:2496:PRO:HD3	1.86	0.58
2:G:3951:PHE:HD2	2:G:4012:LEU:HD21	1.68	0.58
2:B:4157:ASP:H	2:B:4161:ARG:HH12	1.49	0.58
2:I:3313:ASN:HD22	2:I:3350:ARG:HE	1.51	0.58
2:I:3934:TYR:HB2	2:I:3999:MET:HE1	1.86	0.58
2:I:4105:GLY:O	2:I:4109:GLN:NE2	2.37	0.58
2:A:1089:TYR:HD2	2:A:1152:MET:HG3	1.69	0.57
2:A:2301:TYR:HB3	2:A:2331:TYR:CZ	2.39	0.57
2:A:3536:ALA:HB2	2:A:3553:LEU:HD11	1.86	0.57
2:A:3995:VAL:HG13	2:A:3999:MET:HE3	1.86	0.57
2:G:3380:ARG:HA	2:G:3387:ALA:HB1	1.84	0.57
2:G:3950:ASN:HA	2:G:3953:LYS:HZ2	1.68	0.57
2:B:1152:MET:HE1	2:B:1163:THR:HG23	1.85	0.57
2:B:3536:ALA:HB2	2:B:3553:LEU:HD11	1.86	0.57
2:B:3995:VAL:HG13	2:B:3999:MET:HE3	1.86	0.57
2:B:4059:LEU:HD23	2:B:4167:ALA:HB2	1.86	0.57
2:I:2954:ARG:HB3	2:I:2957:PHE:HB2	1.86	0.57
2:I:3451:PHE:O	2:I:3455:GLU:HG2	2.04	0.57
2:A:277:GLY:HA2	2:A:315:CYS:HB3	1.85	0.57
2:A:3035:GLU:HA	2:A:3038:MET:HE2	1.85	0.57
2:A:3435:PHE:HD1	2:A:3517:MET:HG3	1.69	0.57
2:A:3822:ASP:OD1	2:A:3823:LYS:N	2.37	0.57
2:A:3875:MET:O	2:A:3876:ALA:C	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:830:ARG:NH1	2:G:832:GLU:OE1	2.37	0.57
2:G:3875:MET:O	2:G:3876:ALA:C	2.47	0.57
2:G:4105:GLY:O	2:G:4109:GLN:NE2	2.37	0.57
2:B:830:ARG:NH1	2:B:832:GLU:OE1	2.37	0.57
2:B:2211:MET:HB2	2:B:2232:CYS:SG	2.44	0.57
2:B:3380:ARG:HA	2:B:3387:ALA:HB1	1.84	0.57
2:B:3842:LEU:HB3	2:B:3929:SER:OG	2.04	0.57
2:B:4569:LEU:HD22	2:B:4650:HIS:HB2	1.86	0.57
2:I:830:ARG:NH1	2:I:832:GLU:OE1	2.37	0.57
2:I:2377:LEU:HD21	2:I:2468:GLY:HA3	1.86	0.57
2:I:3536:ALA:HB2	2:I:3553:LEU:HD11	1.86	0.57
2:A:266:ARG:NH1	2:A:269:TRP:O	2.37	0.57
2:A:893:TYR:HA	2:A:903:LEU:HD22	1.87	0.57
2:A:4136:ALA:HA	2:A:4139:ILE:HG22	1.87	0.57
2:G:3313:ASN:HD22	2:G:3350:ARG:HE	1.51	0.57
2:G:3467:MET:HE1	2:G:3507:THR:HG21	1.85	0.57
2:G:4059:LEU:HD23	2:G:4167:ALA:HB2	1.86	0.57
2:B:2570:ALA:HB2	2:B:2613:TYR:HB3	1.84	0.57
2:B:2954:ARG:HB3	2:B:2957:PHE:HB2	1.85	0.57
2:B:3435:PHE:HD1	2:B:3517:MET:HG3	1.69	0.57
2:B:3875:MET:O	2:B:3876:ALA:C	2.47	0.57
2:B:3879:GLU:N	2:B:3879:GLU:OE1	2.33	0.57
2:B:4578:LEU:HD13	2:I:4849:TYR:CE1	2.39	0.57
2:I:2490:MET:HE2	2:I:2496:PRO:HD3	1.86	0.57
2:I:2562:ILE:HG22	2:I:2610:LEU:HD21	1.86	0.57
2:I:3435:PHE:HD1	2:I:3517:MET:HG3	1.69	0.57
2:I:4136:ALA:HA	2:I:4139:ILE:HG22	1.86	0.57
2:A:849:THR:O	2:A:852:VAL:HG12	2.05	0.57
2:A:2211:MET:HB2	2:A:2232:CYS:SG	2.44	0.57
2:A:2562:ILE:HG22	2:A:2610:LEU:HD21	1.86	0.57
2:A:4157:ASP:H	2:A:4161:ARG:HH12	1.49	0.57
2:A:4878:ASP:OD1	2:A:4880:MET:N	2.37	0.57
2:G:613:ALA:HB2	2:G:1676:LEU:HD12	1.87	0.57
2:G:3536:ALA:HB2	2:G:3553:LEU:HD11	1.86	0.57
2:G:4136:ALA:HA	2:G:4139:ILE:HG22	1.86	0.57
2:B:1173:SER:OG	2:B:1174:GLY:N	2.37	0.57
2:B:2696:TYR:HB3	2:B:3000:LYS:HG2	1.87	0.57
2:B:3053:ARG:HG2	2:B:3056:LEU:HD21	1.85	0.57
2:B:3323:ILE:HG21	2:B:3408:LEU:HD21	1.85	0.57
2:B:3324:VAL:O	2:B:3327:LEU:HG	2.05	0.57
2:I:266:ARG:NH1	2:I:269:TRP:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1173:SER:OG	2:I:1174:GLY:N	2.37	0.57
2:I:4059:LEU:HD23	2:I:4167:ALA:HB2	1.86	0.57
2:A:640:TYR:HE1	2:A:1636:MET:HE2	1.68	0.57
2:A:3137:LEU:O	2:A:3141:THR:HG23	2.05	0.57
2:A:3451:PHE:O	2:A:3455:GLU:HG2	2.04	0.57
2:G:266:ARG:NH1	2:G:269:TRP:O	2.37	0.57
2:G:618:GLN:OE1	2:G:1678:ASN:ND2	2.38	0.57
2:G:2596:THR:O	2:G:2599:GLN:N	2.31	0.57
2:G:3451:PHE:O	2:G:3455:GLU:HG2	2.04	0.57
2:G:3583:GLU:O	2:G:3585:ASP:N	2.37	0.57
2:G:4088:ILE:HA	2:G:4122:MET:HE3	1.86	0.57
2:B:4823:LEU:HD12	2:I:4843:LEU:HD22	1.87	0.57
2:I:2151:ASP:OD2	2:I:2189:LYS:NZ	2.20	0.57
2:I:2696:TYR:HB3	2:I:3000:LYS:HG2	1.87	0.57
2:I:4569:LEU:HD22	2:I:4650:HIS:HB2	1.86	0.57
2:A:882:TRP:O	2:A:885:THR:OG1	2.23	0.57
2:A:3583:GLU:O	2:A:3585:ASP:N	2.37	0.57
2:G:1652:GLU:OE2	2:G:1656:ARG:NH2	2.36	0.57
2:G:2531:ARG:HD2	2:G:2588:ARG:HH22	1.69	0.57
2:G:3215:ALA:O	2:G:3221:THR:OG1	2.20	0.57
2:G:3435:PHE:HD1	2:G:3517:MET:HG3	1.69	0.57
2:G:4085:ARG:HB2	2:G:4087:LEU:HD13	1.87	0.57
2:B:893:TYR:HA	2:B:903:LEU:HD22	1.87	0.57
2:B:1089:TYR:HD2	2:B:1152:MET:HG3	1.69	0.57
2:B:2377:LEU:HD21	2:B:2468:GLY:HA3	1.86	0.57
2:B:2522:LEU:HA	2:B:2526:PHE:HB2	1.86	0.57
2:B:3137:LEU:O	2:B:3141:THR:HG23	2.05	0.57
2:I:640:TYR:HE1	2:I:1636:MET:HE2	1.68	0.57
2:I:3323:ILE:HG21	2:I:3408:LEU:HD21	1.85	0.57
2:A:917:GLU:O	2:A:921:ASN:ND2	2.29	0.57
2:A:1196:PRO:O	2:A:1198:GLN:NE2	2.19	0.57
2:A:2992:GLU:HA	2:A:2995:ILE:HB	1.86	0.57
2:G:4721:LYS:HB3	2:G:4743:MET:SD	2.45	0.57
2:B:1543:GLU:O	2:B:1546:THR:OG1	2.17	0.57
2:B:4231:MET:HE3	2:B:5022:PHE:CZ	2.40	0.57
2:I:2301:TYR:HB3	2:I:2331:TYR:CZ	2.39	0.57
2:I:3822:ASP:OD1	2:I:3823:LYS:N	2.37	0.57
2:I:4721:LYS:HB3	2:I:4743:MET:SD	2.45	0.57
2:A:613:ALA:HB2	2:A:1676:LEU:HD12	1.87	0.57
2:A:2522:LEU:HA	2:A:2526:PHE:HB2	1.86	0.57
2:A:3842:LEU:HB3	2:A:3929:SER:OG	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4085:ARG:HB2	2:A:4087:LEU:HD13	1.87	0.57
2:G:709:ASP:OD1	2:G:725:HIS:ND1	2.31	0.57
2:G:3842:LEU:HB3	2:G:3929:SER:OG	2.05	0.57
2:G:3997:ALA:O	2:G:4001:MET:HG3	2.04	0.57
2:B:3368:ARG:HH12	2:B:3401:LEU:HD13	1.69	0.57
2:I:940:GLY:O	2:I:1052:ASN:N	2.38	0.57
2:I:3368:ARG:HH12	2:I:3401:LEU:HD13	1.69	0.57
2:I:3583:GLU:O	2:I:3585:ASP:N	2.37	0.57
2:A:3467:MET:HE1	2:A:3507:THR:HG21	1.85	0.57
2:A:4105:GLY:O	2:A:4109:GLN:NE2	2.37	0.57
2:G:893:TYR:HA	2:G:903:LEU:HD22	1.87	0.57
2:G:2638:LYS:HZ1	2:G:2694:GLU:HB2	1.69	0.57
2:G:4003:LEU:HD11	2:G:4012:LEU:HD22	1.87	0.57
2:B:575:LEU:HD22	2:B:609:CYS:HB3	1.87	0.57
2:B:849:THR:O	2:B:852:VAL:HG12	2.05	0.57
2:B:2531:ARG:HD2	2:B:2588:ARG:HH22	1.69	0.57
2:I:893:TYR:HA	2:I:903:LEU:HD22	1.87	0.57
2:I:3053:ARG:HG2	2:I:3056:LEU:HD21	1.85	0.57
2:I:4209:GLN:OE1	2:I:4209:GLN:N	2.26	0.57
2:A:618:GLN:OE1	2:A:1678:ASN:ND2	2.38	0.57
2:A:830:ARG:NH1	2:A:832:GLU:OE1	2.37	0.57
2:A:3934:TYR:HB2	2:A:3999:MET:HE1	1.86	0.57
2:A:4022:ASP:O	2:A:4026:MET:HG2	2.05	0.57
2:G:59:PRO:HB3	2:G:281:ARG:HH11	1.70	0.57
2:G:1116:GLY:O	2:G:1134:LEU:N	2.38	0.57
2:G:2954:ARG:HB3	2:G:2957:PHE:HB2	1.86	0.57
2:B:3887:PHE:O	2:B:3891:LEU:HG	2.05	0.57
2:B:4878:ASP:OD1	2:B:4880:MET:N	2.37	0.57
2:I:952:LYS:HA	2:I:970:LEU:HA	1.87	0.57
2:I:2211:MET:HB2	2:I:2232:CYS:SG	2.44	0.57
2:I:2531:ARG:HD2	2:I:2588:ARG:HH22	1.69	0.57
2:I:3324:VAL:O	2:I:3327:LEU:HG	2.05	0.57
2:I:4085:ARG:HB2	2:I:4087:LEU:HD13	1.87	0.57
2:G:3934:TYR:HB2	2:G:3999:MET:HE1	1.86	0.56
2:G:4569:LEU:HD22	2:G:4650:HIS:HB2	1.85	0.56
2:G:4849:TYR:CE1	2:I:4578:LEU:HD13	2.39	0.56
2:B:266:ARG:NH1	2:B:269:TRP:O	2.37	0.56
2:B:2359:ARG:NH2	2:I:177:GLU:OE2	2.38	0.56
2:B:2382:GLU:O	2:B:2386:ILE:HG12	2.05	0.56
2:B:4136:ALA:HA	2:B:4139:ILE:HG22	1.87	0.56
2:I:3842:LEU:HB3	2:I:3929:SER:OG	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4239:GLU:HG2	6:I:5304:CFF:N9	2.20	0.56
2:A:2464:ASP:O	2:A:2467:VAL:HG22	2.05	0.56
2:A:3324:VAL:O	2:A:3327:LEU:HG	2.05	0.56
2:A:4088:ILE:HA	2:A:4122:MET:HE3	1.86	0.56
2:G:652:ARG:HD2	2:G:750:LEU:HB2	1.86	0.56
2:G:849:THR:O	2:G:852:VAL:HG12	2.05	0.56
2:G:923:GLN:NE2	2:G:927:GLU:OE1	2.39	0.56
2:G:2464:ASP:O	2:G:2467:VAL:HG22	2.05	0.56
2:G:2562:ILE:HG22	2:G:2610:LEU:HD21	1.86	0.56
2:G:3053:ARG:HG2	2:G:3056:LEU:HD21	1.85	0.56
2:G:3995:VAL:HG13	2:G:3999:MET:HE3	1.86	0.56
2:G:4239:GLU:HG2	6:G:5304:CFF:N9	2.20	0.56
2:B:59:PRO:HB3	2:B:281:ARG:HH11	1.70	0.56
2:B:2301:TYR:HB3	2:B:2331:TYR:CZ	2.39	0.56
2:B:4085:ARG:HB2	2:B:4087:LEU:HD13	1.87	0.56
2:B:4238:CYS:SG	2:B:4989:MET:HG3	2.46	0.56
2:B:4721:LYS:HB3	2:B:4743:MET:SD	2.45	0.56
2:B:4793:GLY:O	2:B:4796:MET:HB2	2.05	0.56
2:I:2579:VAL:HB	2:I:2618:MET:HE3	1.86	0.56
2:I:3875:MET:O	2:I:3876:ALA:C	2.47	0.56
2:I:3997:ALA:O	2:I:4001:MET:HG3	2.04	0.56
2:A:100:THR:OG1	2:A:162:LYS:NZ	2.38	0.56
2:A:923:GLN:NE2	2:A:927:GLU:OE1	2.39	0.56
2:A:940:GLY:O	2:A:1052:ASN:N	2.38	0.56
2:A:2654:TYR:HB2	2:A:2661:TRP:CD1	2.41	0.56
2:A:2696:TYR:HB3	2:A:3000:LYS:HG2	1.87	0.56
2:A:3368:ARG:HH12	2:A:3401:LEU:HD13	1.69	0.56
2:A:3532:LEU:HB3	2:A:3553:LEU:HD22	1.87	0.56
2:A:3725:TYR:O	2:A:3729:MET:HG3	2.06	0.56
2:A:3997:ALA:O	2:A:4001:MET:HG3	2.04	0.56
2:G:840:VAL:HG23	2:G:1199:VAL:HG12	1.87	0.56
2:G:2608:MET:O	2:G:2612:ARG:HG2	2.06	0.56
2:G:2819:TRP:HZ3	2:G:2878:LEU:HD23	1.71	0.56
2:G:4022:ASP:O	2:G:4026:MET:HG2	2.05	0.56
2:B:2608:MET:O	2:B:2612:ARG:HG2	2.05	0.56
2:B:2992:GLU:HA	2:B:2995:ILE:HB	1.86	0.56
2:B:3215:ALA:O	2:B:3221:THR:OG1	2.20	0.56
2:B:4022:ASP:O	2:B:4026:MET:HG2	2.05	0.56
2:B:4088:ILE:HA	2:B:4122:MET:HE3	1.87	0.56
2:B:4105:GLY:O	2:B:4109:GLN:NE2	2.37	0.56
2:B:4794:TRP:HE1	2:B:4798:MET:HE2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:59:PRO:HB3	2:I:281:ARG:HH11	1.70	0.56
2:I:923:GLN:NE2	2:I:927:GLU:OE1	2.39	0.56
2:I:2992:GLU:HA	2:I:2995:ILE:HB	1.86	0.56
2:I:3137:LEU:O	2:I:3141:THR:HG23	2.05	0.56
2:I:3725:TYR:O	2:I:3729:MET:HG3	2.06	0.56
2:I:4003:LEU:HD11	2:I:4012:LEU:HD22	1.87	0.56
2:I:4231:MET:HE3	2:I:5022:PHE:CZ	2.40	0.56
2:I:4794:TRP:HE1	2:I:4798:MET:HE2	1.69	0.56
2:A:251:ALA:HB1	2:A:255:HIS:HE2	1.71	0.56
2:A:1230:MET:SD	2:A:1827:ARG:HG3	2.46	0.56
2:A:2531:ARG:HD2	2:A:2588:ARG:HH22	1.69	0.56
2:A:2626:LEU:HA	2:A:2629:ASP:HB2	1.88	0.56
2:A:4059:LEU:HD23	2:A:4167:ALA:HB2	1.86	0.56
2:A:4238:CYS:SG	2:A:4989:MET:HG3	2.46	0.56
2:G:882:TRP:O	2:G:885:THR:OG1	2.23	0.56
2:G:2579:VAL:HB	2:G:2618:MET:HE3	1.86	0.56
2:G:2654:TYR:HB2	2:G:2661:TRP:CD1	2.41	0.56
2:G:5013:MET:HG3	2:G:5018:CYS:HB3	1.87	0.56
2:B:618:GLN:OE1	2:B:1678:ASN:ND2	2.38	0.56
2:B:652:ARG:HD2	2:B:750:LEU:HB2	1.86	0.56
2:B:840:VAL:HG23	2:B:1199:VAL:HG12	1.87	0.56
2:B:882:TRP:O	2:B:885:THR:OG1	2.23	0.56
2:B:923:GLN:NE2	2:B:927:GLU:OE1	2.39	0.56
2:B:2464:ASP:O	2:B:2467:VAL:HG22	2.05	0.56
2:B:2654:TYR:HB2	2:B:2661:TRP:CD1	2.41	0.56
2:B:3314:SER:O	2:B:3318:ASN:ND2	2.34	0.56
2:B:3532:LEU:HB3	2:B:3553:LEU:HD22	1.88	0.56
2:B:4239:GLU:HG2	6:B:5304:CFF:N9	2.19	0.56
2:I:575:LEU:HD22	2:I:609:CYS:HB3	1.87	0.56
2:I:849:THR:O	2:I:852:VAL:HG12	2.05	0.56
2:A:59:PRO:HB3	2:A:281:ARG:HH11	1.70	0.56
2:A:4231:MET:HE3	2:A:5022:PHE:CZ	2.40	0.56
2:G:2635:GLU:OE1	2:G:2635:GLU:N	2.32	0.56
2:G:4231:MET:HE3	2:G:5022:PHE:CZ	2.40	0.56
2:G:4839:MET:SD	2:I:4820:VAL:HG11	2.46	0.56
2:B:872:GLU:OE2	2:B:872:GLU:N	2.36	0.56
2:B:952:LYS:HA	2:B:970:LEU:HA	1.87	0.56
2:B:3725:TYR:O	2:B:3729:MET:HG3	2.06	0.56
2:B:3934:TYR:HB2	2:B:3999:MET:HE1	1.86	0.56
2:I:709:ASP:OD1	2:I:725:HIS:ND1	2.31	0.56
2:I:1265:ASP:OD1	2:I:1266:THR:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4239:GLU:HG2	6:A:5304:CFF:N9	2.20	0.56
2:A:4721:LYS:HB3	2:A:4743:MET:SD	2.45	0.56
2:A:4793:GLY:O	2:A:4796:MET:HB2	2.06	0.56
2:G:177:GLU:OE2	2:I:2359:ARG:NH2	2.38	0.56
2:G:2382:GLU:O	2:G:2386:ILE:HG12	2.05	0.56
2:G:2560:PRO:O	2:G:2563:THR:OG1	2.23	0.56
2:G:2992:GLU:HA	2:G:2995:ILE:HB	1.86	0.56
2:G:3137:LEU:O	2:G:3141:THR:HG23	2.05	0.56
2:G:3368:ARG:HH12	2:G:3401:LEU:HD13	1.69	0.56
2:B:280:LEU:HD21	2:B:316:PHE:CD2	2.41	0.56
2:B:4209:GLN:OE1	2:B:4209:GLN:N	2.26	0.56
2:I:613:ALA:HB2	2:I:1676:LEU:HD12	1.87	0.56
2:I:618:GLN:OE1	2:I:1678:ASN:ND2	2.38	0.56
2:I:1230:MET:SD	2:I:1827:ARG:HG3	2.46	0.56
2:I:2382:GLU:O	2:I:2386:ILE:HG12	2.05	0.56
2:I:4793:GLY:O	2:I:4796:MET:HB2	2.06	0.56
2:A:2382:GLU:O	2:A:2386:ILE:HG12	2.05	0.56
2:A:2608:MET:O	2:A:2612:ARG:HG2	2.06	0.56
2:A:3886:ARG:HH21	2:A:3890:LEU:HD21	1.70	0.56
1:H:79:ASP:OD1	1:H:80:VAL:HG13	2.05	0.56
1:J:79:ASP:OD1	1:J:80:VAL:HG13	2.05	0.56
2:G:575:LEU:HD22	2:G:609:CYS:HB3	1.87	0.56
2:G:2495:VAL:HG12	2:G:2498:HIS:N	2.21	0.56
2:G:2696:TYR:HB3	2:G:3000:LYS:HG2	1.87	0.56
2:G:3725:TYR:O	2:G:3729:MET:HG3	2.06	0.56
2:G:3826:VAL:HG12	2:G:3909:ASN:HB3	1.88	0.56
2:B:100:THR:OG1	2:B:162:LYS:NZ	2.38	0.56
2:B:4031:LEU:HD11	2:B:4149:ASN:HB3	1.88	0.56
2:B:4820:VAL:HG11	2:I:4839:MET:SD	2.45	0.56
2:I:882:TRP:O	2:I:885:THR:OG1	2.23	0.56
2:I:2654:TYR:HB2	2:I:2661:TRP:CD1	2.41	0.56
2:I:2819:TRP:HZ3	2:I:2878:LEU:HD23	1.71	0.56
2:I:3887:PHE:O	2:I:3891:LEU:HG	2.05	0.56
2:I:5013:MET:HG3	2:I:5018:CYS:HB3	1.88	0.56
2:A:952:LYS:HA	2:A:970:LEU:HA	1.87	0.56
2:A:1116:GLY:O	2:A:1134:LEU:N	2.38	0.56
2:A:3887:PHE:O	2:A:3891:LEU:HG	2.05	0.56
2:A:5013:MET:HG3	2:A:5018:CYS:HB3	1.87	0.56
2:G:251:ALA:HB1	2:G:255:HIS:HE2	1.71	0.56
2:G:940:GLY:O	2:G:1052:ASN:N	2.38	0.56
2:G:952:LYS:HA	2:G:970:LEU:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1125:ASN:OD1	2:G:1126:GLY:N	2.39	0.56
2:G:4000:MET:HE3	2:G:4061:PHE:CD2	2.41	0.56
2:B:1116:GLY:O	2:B:1134:LEU:N	2.38	0.56
2:B:1279:SER:N	2:B:1282:SER:OG	2.36	0.56
2:B:3046:LEU:O	2:B:3050:VAL:HG12	2.06	0.56
2:B:3826:VAL:HG12	2:B:3909:ASN:HB3	1.88	0.56
2:B:3997:ALA:O	2:B:4001:MET:HG3	2.04	0.56
2:I:3215:ALA:O	2:I:3221:THR:OG1	2.20	0.56
2:I:4088:ILE:HA	2:I:4122:MET:HE3	1.86	0.56
2:I:4238:CYS:SG	2:I:4989:MET:HG3	2.46	0.56
2:A:74:SER:HG	2:A:77:ALA:H	1.54	0.56
2:A:840:VAL:HG23	2:A:1199:VAL:HG12	1.87	0.56
2:A:4000:MET:HE3	2:A:4061:PHE:CD2	2.41	0.56
2:G:1607:ARG:NH1	2:G:1610:ASN:OD1	2.39	0.56
2:G:2522:LEU:HA	2:G:2526:PHE:HB2	1.86	0.56
2:G:3324:VAL:O	2:G:3327:LEU:HG	2.05	0.56
2:G:4209:GLN:OE1	2:G:4209:GLN:N	2.26	0.56
2:B:613:ALA:HB2	2:B:1676:LEU:HD12	1.87	0.56
2:B:1196:PRO:O	2:B:1198:GLN:NE2	2.19	0.56
2:B:2626:LEU:HA	2:B:2629:ASP:HB2	1.88	0.56
2:B:4003:LEU:HD11	2:B:4012:LEU:HD22	1.87	0.56
2:I:3046:LEU:O	2:I:3050:VAL:HG12	2.06	0.56
2:I:4000:MET:HE3	2:I:4061:PHE:CD2	2.41	0.56
2:I:4022:ASP:O	2:I:4026:MET:HG2	2.05	0.56
2:I:4049:VAL:HG11	2:I:4159:ARG:CD	2.36	0.56
2:I:4237:PHE:HD1	2:I:4672:LYS:HZ2	1.52	0.56
2:A:182:LEU:HB2	2:A:189:LEU:HD23	1.87	0.56
2:A:652:ARG:HD2	2:A:750:LEU:HB2	1.86	0.56
2:A:1125:ASN:OD1	2:A:1126:GLY:N	2.39	0.56
2:A:2478:THR:HG21	2:A:2485:LEU:HA	1.88	0.56
2:A:2620:GLN:O	2:A:2624:ARG:N	2.37	0.56
2:A:3506:GLN:HA	2:A:3511:VAL:HG21	1.88	0.56
2:A:4003:LEU:HD11	2:A:4012:LEU:HD22	1.87	0.56
1:O:79:ASP:OD1	1:O:80:VAL:HG13	2.05	0.56
2:G:1173:SER:OG	2:G:1174:GLY:N	2.37	0.56
2:G:2778:GLY:HA3	2:G:2787:THR:HB	1.88	0.56
2:G:4238:CYS:SG	2:G:4989:MET:HG3	2.45	0.56
2:G:4793:GLY:O	2:G:4796:MET:HB2	2.06	0.56
2:B:3309:SER:HB2	2:B:3348:ARG:HG2	1.87	0.56
2:B:4049:VAL:HG11	2:B:4159:ARG:CD	2.36	0.56
2:I:3532:LEU:HB3	2:I:3553:LEU:HD22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:280:LEU:HD21	2:A:316:PHE:CD2	2.41	0.55
2:A:633:LEU:HB3	2:A:1639:LEU:HD11	1.88	0.55
2:G:3532:LEU:HB3	2:G:3553:LEU:HD22	1.88	0.55
2:B:103:TYR:O	2:B:160:GLY:N	2.35	0.55
2:B:1230:MET:SD	2:B:1827:ARG:HG3	2.46	0.55
2:B:4000:MET:HE3	2:B:4061:PHE:CD2	2.41	0.55
2:I:652:ARG:HD2	2:I:750:LEU:HB2	1.86	0.55
2:I:2464:ASP:O	2:I:2467:VAL:HG22	2.05	0.55
2:I:2522:LEU:HA	2:I:2526:PHE:HB2	1.86	0.55
2:I:2608:MET:O	2:I:2612:ARG:HG2	2.06	0.55
2:I:3826:VAL:HG12	2:I:3909:ASN:HB3	1.88	0.55
2:I:3886:ARG:HH21	2:I:3890:LEU:HD21	1.70	0.55
2:I:4979:THR:HG23	3:I:5301:ATP:C4	2.41	0.55
2:A:207:SER:HB3	2:A:334:MET:HE2	1.88	0.55
2:A:1575:LEU:HD13	2:A:1579:MET:HE3	1.89	0.55
2:A:2296:GLU:O	2:A:2300:SER:N	2.32	0.55
2:A:3358:PHE:HZ	2:A:3412:LEU:HB2	1.71	0.55
2:G:207:SER:HB3	2:G:334:MET:HE2	1.88	0.55
2:G:1230:MET:SD	2:G:1827:ARG:HG3	2.46	0.55
2:G:2626:LEU:HA	2:G:2629:ASP:HB2	1.88	0.55
2:B:251:ALA:HB1	2:B:255:HIS:HE2	1.71	0.55
2:B:1125:ASN:OD1	2:B:1126:GLY:N	2.39	0.55
2:B:2495:VAL:HG12	2:B:2498:HIS:N	2.21	0.55
2:A:575:LEU:HD22	2:A:609:CYS:HB3	1.87	0.55
2:A:1076:ARG:HH22	2:A:1655:GLU:CD	2.15	0.55
2:A:2819:TRP:HZ3	2:A:2878:LEU:HD23	1.71	0.55
2:G:182:LEU:HB2	2:G:189:LEU:HD23	1.87	0.55
2:G:3886:ARG:HH21	2:G:3890:LEU:HD21	1.70	0.55
2:G:4059:LEU:HD22	2:G:4166:LEU:HD23	1.88	0.55
2:B:207:SER:HB3	2:B:334:MET:HE2	1.88	0.55
2:B:1575:LEU:HD13	2:B:1579:MET:HE3	1.89	0.55
2:B:2478:THR:HG21	2:B:2485:LEU:HA	1.88	0.55
2:B:3886:ARG:HH21	2:B:3890:LEU:HD21	1.70	0.55
2:B:4060:LYS:O	2:B:4064:MET:HG3	2.07	0.55
2:I:207:SER:HB3	2:I:334:MET:HE2	1.88	0.55
2:I:280:LEU:HD21	2:I:316:PHE:CD2	2.41	0.55
2:I:1116:GLY:O	2:I:1134:LEU:N	2.38	0.55
2:I:1125:ASN:OD1	2:I:1126:GLY:N	2.39	0.55
2:G:917:GLU:O	2:G:921:ASN:ND2	2.29	0.55
2:G:4088:ILE:N	2:G:4123:ILE:O	2.29	0.55
2:B:1076:ARG:HH22	2:B:1655:GLU:CD	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2778:GLY:HA3	2:B:2787:THR:HB	1.88	0.55
2:B:2819:TRP:HZ3	2:B:2878:LEU:HD23	1.71	0.55
2:I:3887:PHE:CZ	2:I:3891:LEU:HD21	2.42	0.55
1:F:79:ASP:OD1	1:F:80:VAL:HG13	2.05	0.55
2:A:1208:VAL:HG11	2:G:3575:LEU:HD11	1.88	0.55
2:A:2751:LEU:O	2:A:2755:ILE:HG13	2.06	0.55
2:A:3046:LEU:O	2:A:3050:VAL:HG12	2.06	0.55
2:A:3309:SER:HB2	2:A:3348:ARG:HG2	1.88	0.55
2:A:3826:VAL:HG12	2:A:3909:ASN:HB3	1.88	0.55
2:A:4031:LEU:HD11	2:A:4149:ASN:HB3	1.88	0.55
2:G:280:LEU:HD21	2:G:316:PHE:CD2	2.41	0.55
2:G:3046:LEU:O	2:G:3050:VAL:HG12	2.06	0.55
2:G:3887:PHE:O	2:G:3891:LEU:HG	2.05	0.55
2:B:59:PRO:HD3	2:B:307:ALA:HB3	1.89	0.55
2:B:2096:GLU:O	2:B:2100:HIS:ND1	2.39	0.55
2:B:2751:LEU:O	2:B:2755:ILE:HG13	2.06	0.55
2:B:3315:LEU:O	2:B:3319:ILE:HG12	2.07	0.55
2:B:3358:PHE:HZ	2:B:3412:LEU:HB2	1.71	0.55
2:B:4979:THR:HG23	3:B:5301:ATP:C4	2.41	0.55
2:I:2419:GLY:O	2:I:2423:MET:N	2.28	0.55
2:I:2495:VAL:HG12	2:I:2498:HIS:N	2.21	0.55
2:A:4059:LEU:HD22	2:A:4166:LEU:HD23	1.88	0.55
2:A:4060:LYS:O	2:A:4064:MET:HG3	2.07	0.55
2:A:4219:PHE:HE1	2:A:4947:GLN:HG3	1.72	0.55
2:A:4878:ASP:OD1	2:A:4880:MET:HE2	2.07	0.55
1:H:90:VAL:HG12	1:H:91:ILE:HD13	1.88	0.55
2:G:4860:ARG:O	2:G:4874:MET:HE1	2.07	0.55
2:G:4878:ASP:OD1	2:G:4880:MET:N	2.37	0.55
2:B:3506:GLN:HA	2:B:3511:VAL:HG21	1.89	0.55
2:B:3887:PHE:CZ	2:B:3891:LEU:HD21	2.42	0.55
2:B:4878:ASP:OD1	2:B:4880:MET:HE2	2.07	0.55
2:I:4060:LYS:O	2:I:4064:MET:HG3	2.07	0.55
2:I:4088:ILE:N	2:I:4123:ILE:O	2.29	0.55
2:I:4097:MET:HE2	2:I:4108:ILE:HA	1.88	0.55
1:F:90:VAL:HG12	1:F:91:ILE:HD13	1.88	0.55
1:J:90:VAL:HG12	1:J:91:ILE:HD13	1.88	0.55
2:G:2475:GLN:OE1	2:G:2493:SER:OG	2.17	0.55
2:B:182:LEU:HB2	2:B:189:LEU:HD23	1.87	0.55
2:B:1265:ASP:OD1	2:B:1266:THR:N	2.39	0.55
2:B:1607:ARG:NH1	2:B:1610:ASN:OD1	2.39	0.55
2:I:56:GLN:O	2:I:309:THR:OG1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:100:THR:OG1	2:I:162:LYS:NZ	2.38	0.55
2:I:394:GLN:N	2:I:397:GLU:OE2	2.36	0.55
2:I:2693:GLN:HB3	2:I:2697:ARG:NH1	2.22	0.55
2:A:59:PRO:HD3	2:A:307:ALA:HB3	1.89	0.55
2:A:1607:ARG:NH1	2:A:1610:ASN:OD1	2.39	0.55
2:A:3315:LEU:O	2:A:3319:ILE:HG12	2.07	0.55
2:G:1208:VAL:HG11	2:I:3575:LEU:HD11	1.88	0.55
2:G:3358:PHE:HZ	2:G:3412:LEU:HB2	1.71	0.55
2:G:4979:THR:HG23	3:G:5301:ATP:C4	2.41	0.55
2:B:2615:ARG:NH1	2:B:2617:SER:OG	2.40	0.55
2:I:182:LEU:HB2	2:I:189:LEU:HD23	1.87	0.55
2:I:1607:ARG:NH1	2:I:1610:ASN:OD1	2.39	0.55
2:I:2475:GLN:OE1	2:I:2493:SER:OG	2.17	0.55
2:I:4049:VAL:HG12	2:I:4163:PHE:CZ	2.42	0.55
2:A:3937:TYR:OH	2:A:3943:ILE:N	2.40	0.55
2:A:4142:ASN:HA	2:A:4145:VAL:HG22	1.89	0.55
2:A:4240:ASP:O	2:A:4243:PHE:HB3	2.07	0.55
2:A:4820:VAL:HG11	2:B:4839:MET:SD	2.47	0.55
2:G:633:LEU:HB3	2:G:1639:LEU:HD11	1.88	0.55
2:G:2096:GLU:O	2:G:2100:HIS:ND1	2.39	0.55
2:G:3514:LEU:HD21	2:G:3602:VAL:HG13	1.89	0.55
2:G:4049:VAL:HG11	2:G:4159:ARG:CD	2.36	0.55
2:G:4142:ASN:HA	2:G:4145:VAL:HG22	1.89	0.55
2:G:4237:PHE:HD1	2:G:4672:LYS:HZ2	1.54	0.55
2:B:2693:GLN:HB3	2:B:2697:ARG:NH1	2.22	0.55
2:B:4219:PHE:HE1	2:B:4947:GLN:HG3	1.72	0.55
2:I:2478:THR:HG21	2:I:2485:LEU:HA	1.88	0.55
2:I:2626:LEU:HA	2:I:2629:ASP:HB2	1.88	0.55
2:I:3309:SER:HB2	2:I:3348:ARG:HG2	1.87	0.55
2:I:4059:LEU:HD22	2:I:4166:LEU:HD23	1.88	0.55
2:I:4104:THR:O	2:I:4108:ILE:HG12	2.07	0.55
2:I:4878:ASP:OD1	2:I:4880:MET:N	2.37	0.55
2:A:2575:ARG:NH2	2:A:2578:MET:SD	2.80	0.55
2:A:2868:SER:O	2:A:2872:GLN:N	2.36	0.55
2:A:3514:LEU:HD21	2:A:3602:VAL:HG13	1.89	0.55
2:A:4979:THR:HG23	3:A:5301:ATP:C4	2.41	0.55
2:G:1076:ARG:HH22	2:G:1655:GLU:CD	2.15	0.55
2:G:2478:THR:HG21	2:G:2485:LEU:HA	1.88	0.55
2:G:3309:SER:HB2	2:G:3348:ARG:HG2	1.87	0.55
2:G:3506:GLN:HA	2:G:3511:VAL:HG21	1.88	0.55
2:G:3965:LEU:HB3	2:G:4026:MET:CE	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4878:ASP:OD1	2:G:4880:MET:HE2	2.07	0.55
2:B:2423:MET:SD	2:B:2494:PHE:HD1	2.30	0.55
2:B:3575:LEU:HD11	2:I:1208:VAL:HG11	1.87	0.55
2:I:226:HIS:ND1	2:I:226:HIS:O	2.39	0.55
2:I:1263:THR:OG1	2:I:1265:ASP:OD1	2.25	0.55
2:I:3358:PHE:HZ	2:I:3412:LEU:HB2	1.71	0.55
2:I:3965:LEU:HB3	2:I:4026:MET:CE	2.37	0.55
2:A:1106:ARG:NH2	2:A:1183:GLU:OE2	2.40	0.54
2:A:2096:GLU:O	2:A:2100:HIS:ND1	2.39	0.54
2:A:2182:ILE:O	2:A:2186:MET:HG2	2.08	0.54
2:A:4104:THR:O	2:A:4108:ILE:HG12	2.07	0.54
2:A:4658:ILE:HG12	2:A:4792:LEU:HB3	1.89	0.54
2:G:1575:LEU:HD13	2:G:1579:MET:HE3	1.89	0.54
2:G:4097:MET:HE2	2:G:4108:ILE:HA	1.88	0.54
2:B:2182:ILE:O	2:B:2186:MET:HG2	2.08	0.54
2:B:2575:ARG:NH2	2:B:2578:MET:SD	2.80	0.54
2:B:4059:LEU:HD22	2:B:4166:LEU:HD23	1.88	0.54
2:B:4097:MET:HE2	2:B:4108:ILE:HA	1.88	0.54
2:I:1038:SER:O	2:I:1041:GLN:HG3	2.08	0.54
2:I:1076:ARG:HH22	2:I:1655:GLU:CD	2.14	0.54
2:I:1575:LEU:HD13	2:I:1579:MET:HE3	1.89	0.54
2:I:2615:ARG:NH1	2:I:2617:SER:OG	2.40	0.54
2:I:3534:MET:HA	2:I:3537:LYS:HB2	1.89	0.54
2:A:4049:VAL:HG12	2:A:4163:PHE:CZ	2.42	0.54
2:G:1106:ARG:NH2	2:G:1183:GLU:OE2	2.40	0.54
2:G:1263:THR:OG1	2:G:1265:ASP:OD1	2.25	0.54
2:G:1433:TYR:CD2	2:G:1578:ALA:HB2	2.43	0.54
2:G:2336:ARG:NH1	2:G:2431:ASP:OD2	2.36	0.54
2:G:3534:MET:HA	2:G:3537:LYS:HB2	1.89	0.54
2:G:4031:LEU:HD11	2:G:4149:ASN:HB3	1.88	0.54
2:G:4060:LYS:O	2:G:4064:MET:HG3	2.07	0.54
2:G:4240:ASP:O	2:G:4243:PHE:HB3	2.07	0.54
2:B:350:HIS:HD2	2:B:352:ALA:H	1.55	0.54
2:B:1106:ARG:NH2	2:B:1183:GLU:OE2	2.40	0.54
2:B:3534:MET:HA	2:B:3537:LYS:HB2	1.89	0.54
2:B:4142:ASN:HA	2:B:4145:VAL:HG22	1.89	0.54
2:B:4240:ASP:O	2:B:4243:PHE:HB3	2.07	0.54
2:I:251:ALA:HB1	2:I:255:HIS:HE2	1.71	0.54
2:I:840:VAL:HG23	2:I:1199:VAL:HG12	1.87	0.54
2:I:872:GLU:OE2	2:I:872:GLU:N	2.36	0.54
2:I:2751:LEU:O	2:I:2755:ILE:HG13	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3315:LEU:O	2:I:3319:ILE:HG12	2.07	0.54
2:I:4142:ASN:HA	2:I:4145:VAL:HG22	1.89	0.54
2:I:4860:ARG:O	2:I:4874:MET:HE1	2.07	0.54
2:A:1038:SER:O	2:A:1041:GLN:HG3	2.08	0.54
2:A:2495:VAL:HB	2:A:2498:HIS:HB2	1.89	0.54
2:A:2615:ARG:NH1	2:A:2617:SER:OG	2.40	0.54
2:A:3018:LEU:HD13	2:A:3150:HIS:CE1	2.43	0.54
2:A:4823:LEU:CD1	2:B:4843:LEU:HD22	2.36	0.54
2:G:3887:PHE:CZ	2:G:3891:LEU:HD21	2.42	0.54
2:G:4049:VAL:HG12	2:G:4163:PHE:CZ	2.42	0.54
2:B:3965:LEU:HB3	2:B:4026:MET:CE	2.37	0.54
2:B:4860:ARG:O	2:B:4874:MET:HE1	2.07	0.54
2:B:5013:MET:HG3	2:B:5018:CYS:HB3	1.88	0.54
2:I:350:HIS:HD2	2:I:352:ALA:H	1.55	0.54
2:I:3018:LEU:HD13	2:I:3150:HIS:CE1	2.43	0.54
2:I:3514:LEU:HD21	2:I:3602:VAL:HG13	1.89	0.54
2:I:4031:LEU:HD11	2:I:4149:ASN:HB3	1.88	0.54
2:G:2615:ARG:NH1	2:G:2617:SER:OG	2.40	0.54
2:G:2693:GLN:HB3	2:G:2697:ARG:NH1	2.22	0.54
2:G:2751:LEU:O	2:G:2755:ILE:HG13	2.06	0.54
2:G:3097:GLU:OE2	2:G:3167:ARG:NH2	2.41	0.54
2:G:3937:TYR:OH	2:G:3943:ILE:N	2.40	0.54
2:B:74:SER:HG	2:B:77:ALA:H	1.53	0.54
2:B:226:HIS:ND1	2:B:226:HIS:O	2.39	0.54
2:B:633:LEU:HB3	2:B:1639:LEU:HD11	1.88	0.54
2:B:1263:THR:OG1	2:B:1265:ASP:OD1	2.25	0.54
2:I:2778:GLY:HA3	2:I:2787:THR:HB	1.88	0.54
2:A:56:GLN:O	2:A:309:THR:OG1	2.25	0.54
2:A:2693:GLN:HB3	2:A:2697:ARG:NH1	2.22	0.54
2:A:4860:ARG:O	2:A:4874:MET:HE1	2.07	0.54
2:G:100:THR:OG1	2:G:162:LYS:NZ	2.38	0.54
2:G:4219:PHE:HE1	2:G:4947:GLN:HG3	1.72	0.54
2:G:4856:PHE:CD2	2:G:4879:MET:HE1	2.43	0.54
2:B:4049:VAL:HG12	2:B:4163:PHE:CZ	2.42	0.54
2:I:59:PRO:HD3	2:I:307:ALA:HB3	1.89	0.54
2:I:633:LEU:HB3	2:I:1639:LEU:HD11	1.88	0.54
2:A:2778:GLY:HA3	2:A:2787:THR:HB	1.88	0.54
2:A:3084:GLY:O	2:A:3089:LYS:NZ	2.40	0.54
2:A:3887:PHE:CZ	2:A:3891:LEU:HD21	2.42	0.54
1:O:90:VAL:HG12	1:O:91:ILE:HD13	1.88	0.54
2:G:2575:ARG:NH2	2:G:2578:MET:SD	2.80	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3527:PRO:HB3	2:G:3569:LEU:HD12	1.90	0.54
2:G:3534:MET:O	2:G:3538:THR:N	2.26	0.54
2:B:3937:TYR:OH	2:B:3943:ILE:N	2.40	0.54
2:B:4104:THR:O	2:B:4108:ILE:HG12	2.07	0.54
2:I:2182:ILE:O	2:I:2186:MET:HG2	2.08	0.54
2:I:2423:MET:SD	2:I:2494:PHE:HD1	2.30	0.54
2:I:3506:GLN:HA	2:I:3511:VAL:HG21	1.88	0.54
2:A:228:ASP:OD1	2:A:228:ASP:N	2.40	0.54
2:A:1433:TYR:CD2	2:A:1578:ALA:HB2	2.43	0.54
2:A:2212:VAL:HG22	2:A:2256:TYR:CZ	2.43	0.54
2:A:3090:ALA:HA	2:A:3093:ARG:NH2	2.23	0.54
2:G:74:SER:HG	2:G:77:ALA:H	1.55	0.54
2:G:1038:SER:O	2:G:1041:GLN:HG3	2.07	0.54
2:G:4658:ILE:HG12	2:G:4792:LEU:HB3	1.89	0.54
2:B:2336:ARG:NH1	2:B:2431:ASP:OD2	2.36	0.54
2:B:2638:LYS:HZ1	2:B:2694:GLU:HB2	1.72	0.54
2:A:3780:LEU:HD11	2:A:3816:MET:HB3	1.90	0.54
2:A:4049:VAL:HG11	2:A:4159:ARG:CD	2.36	0.54
2:A:4888:TYR:CD1	2:B:4914:VAL:HG13	2.42	0.54
2:G:2498:HIS:CD2	2:G:2502:MET:HE3	2.43	0.54
2:B:2495:VAL:HB	2:B:2498:HIS:HB2	1.89	0.54
2:B:4238:CYS:HA	2:B:4241:THR:OG1	2.08	0.54
2:I:1106:ARG:NH2	2:I:1183:GLU:OE2	2.40	0.54
2:I:2096:GLU:O	2:I:2100:HIS:ND1	2.39	0.54
2:I:2495:VAL:HB	2:I:2498:HIS:HB2	1.89	0.54
2:I:2575:ARG:NH2	2:I:2578:MET:SD	2.80	0.54
2:I:3084:GLY:O	2:I:3089:LYS:NZ	2.41	0.54
2:I:3097:GLU:OE2	2:I:3167:ARG:NH2	2.41	0.54
2:I:3103:ILE:HD13	2:I:3168:THR:HG23	1.90	0.54
2:A:2423:MET:SD	2:A:2494:PHE:HD1	2.30	0.54
2:A:4856:PHE:CD2	2:A:4879:MET:HE1	2.43	0.54
2:G:59:PRO:HD3	2:G:307:ALA:HB3	1.89	0.54
2:G:1279:SER:N	2:G:1282:SER:OG	2.36	0.54
2:G:2212:VAL:HG22	2:G:2256:TYR:CZ	2.43	0.54
2:G:3018:LEU:HD13	2:G:3150:HIS:CE1	2.43	0.54
2:G:3103:ILE:HD13	2:G:3168:THR:HG23	1.90	0.54
2:B:2620:GLN:O	2:B:2624:ARG:N	2.37	0.54
2:B:3812:VAL:O	2:B:3816:MET:HG3	2.08	0.54
2:I:2212:VAL:HG22	2:I:2256:TYR:CZ	2.43	0.54
2:I:2296:GLU:O	2:I:2300:SER:N	2.31	0.54
2:I:2920:ARG:O	2:I:2924:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3527:PRO:HB3	2:I:3569:LEU:HD12	1.90	0.54
2:I:4856:PHE:CD2	2:I:4879:MET:HE1	2.43	0.54
2:A:14:LEU:H	2:A:163:VAL:HG23	1.73	0.54
2:A:226:HIS:ND1	2:A:226:HIS:O	2.39	0.54
2:A:1173:SER:OG	2:A:1174:GLY:N	2.37	0.54
2:A:3812:VAL:O	2:A:3816:MET:HG3	2.08	0.54
2:G:1005:TRP:HA	2:G:1016:ARG:O	2.09	0.54
2:G:1454:THR:OG1	2:G:1456:ASP:OD2	2.24	0.54
2:G:2495:VAL:HB	2:G:2498:HIS:HB2	1.89	0.54
2:B:14:LEU:H	2:B:163:VAL:HG23	1.73	0.54
2:B:1433:TYR:CD2	2:B:1578:ALA:HB2	2.43	0.54
2:B:3527:PRO:HB3	2:B:3569:LEU:HD12	1.90	0.54
2:B:4856:PHE:CD2	2:B:4879:MET:HE1	2.43	0.54
2:I:883:ALA:HB1	2:I:905:PRO:HA	1.91	0.54
2:I:3812:VAL:O	2:I:3816:MET:HG3	2.08	0.54
2:I:4219:PHE:HE1	2:I:4947:GLN:HG3	1.72	0.54
2:A:1263:THR:OG1	2:A:1265:ASP:OD1	2.25	0.53
2:A:2635:GLU:OE1	2:A:2635:GLU:N	2.32	0.53
2:G:45:ARG:NH2	2:G:139:GLU:OE2	2.41	0.53
2:G:3084:GLY:O	2:G:3089:LYS:NZ	2.40	0.53
2:B:649:PHE:HB3	2:B:776:LEU:HD13	1.90	0.53
2:B:3018:LEU:HD13	2:B:3150:HIS:CE1	2.43	0.53
2:B:3097:GLU:OE2	2:B:3167:ARG:NH2	2.41	0.53
2:B:3583:GLU:O	2:B:3585:ASP:N	2.37	0.53
2:I:1433:TYR:CD2	2:I:1578:ALA:HB2	2.43	0.53
2:I:4878:ASP:OD1	2:I:4880:MET:HE2	2.07	0.53
1:F:22:CYS:HB3	1:F:103:LEU:HD11	1.91	0.53
2:A:41:GLY:HA2	2:A:137:LEU:HD12	1.90	0.53
2:A:1005:TRP:HA	2:A:1016:ARG:O	2.08	0.53
2:A:2498:HIS:CD2	2:A:2502:MET:HE3	2.43	0.53
2:A:3097:GLU:OE2	2:A:3167:ARG:NH2	2.41	0.53
2:A:3314:SER:O	2:A:3318:ASN:ND2	2.34	0.53
2:G:2620:GLN:O	2:G:2624:ARG:N	2.37	0.53
2:G:2920:ARG:O	2:G:2924:GLN:HG2	2.08	0.53
2:G:3812:VAL:O	2:G:3816:MET:HG3	2.08	0.53
2:G:4237:PHE:HE1	2:G:4668:LEU:HD11	1.73	0.53
2:B:41:GLY:HA2	2:B:137:LEU:HD12	1.90	0.53
2:B:2868:SER:O	2:B:2872:GLN:N	2.36	0.53
2:B:3514:LEU:HD21	2:B:3602:VAL:HG13	1.89	0.53
2:I:920:TYR:HA	2:I:923:GLN:HB3	1.90	0.53
2:I:3090:ALA:HA	2:I:3093:ARG:NH2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:350:HIS:CD2	2:A:352:ALA:H	2.27	0.53
1:O:22:CYS:HB3	1:O:103:LEU:HD11	1.91	0.53
2:G:649:PHE:HB3	2:G:776:LEU:HD13	1.90	0.53
2:G:1719:HIS:CD2	2:G:1802:ILE:HB	2.44	0.53
2:G:3314:SER:O	2:G:3318:ASN:ND2	2.34	0.53
2:G:3780:LEU:HD11	2:G:3816:MET:HB3	1.90	0.53
2:G:4104:THR:O	2:G:4108:ILE:HG12	2.07	0.53
2:G:5007:GLU:OE1	2:G:5007:GLU:N	2.41	0.53
2:B:76:ARG:NH2	2:B:79:GLN:OE1	2.42	0.53
2:B:1719:HIS:CD2	2:B:1802:ILE:HB	2.44	0.53
2:I:2674:LEU:HA	2:I:2677:LYS:HZ1	1.74	0.53
2:I:3937:TYR:OH	2:I:3943:ILE:N	2.40	0.53
2:I:4658:ILE:HG12	2:I:4792:LEU:HB3	1.89	0.53
2:I:5007:GLU:OE1	2:I:5007:GLU:N	2.41	0.53
2:A:214:VAL:HG22	2:A:341:TYR:CZ	2.44	0.53
2:A:350:HIS:HD2	2:A:352:ALA:H	1.55	0.53
2:A:491:ILE:O	2:A:495:ASN:ND2	2.41	0.53
2:A:4238:CYS:HA	2:A:4241:THR:OG1	2.08	0.53
2:G:2296:GLU:O	2:G:2300:SER:N	2.31	0.53
2:G:2827:ARG:HE	2:G:2934:GLY:HA2	1.74	0.53
2:B:491:ILE:O	2:B:495:ASN:ND2	2.41	0.53
2:B:1038:SER:O	2:B:1041:GLN:HG3	2.08	0.53
2:B:2498:HIS:CD2	2:B:2502:MET:HE3	2.43	0.53
2:B:2920:ARG:O	2:B:2924:GLN:HG2	2.08	0.53
2:B:3780:LEU:HD11	2:B:3816:MET:HB3	1.90	0.53
2:I:491:ILE:O	2:I:495:ASN:ND2	2.41	0.53
2:I:1005:TRP:HA	2:I:1016:ARG:O	2.08	0.53
2:I:1279:SER:N	2:I:1282:SER:OG	2.36	0.53
2:I:2827:ARG:HE	2:I:2934:GLY:HA2	1.74	0.53
2:I:2868:SER:O	2:I:2872:GLN:N	2.36	0.53
2:I:4238:CYS:HA	2:I:4241:THR:OG1	2.08	0.53
2:I:4240:ASP:O	2:I:4243:PHE:HB3	2.07	0.53
2:A:209:CYS:HB2	2:A:273:HIS:NE2	2.24	0.53
2:A:676:THR:HG22	2:A:677:ALA:N	2.23	0.53
2:A:2495:VAL:HG12	2:A:2498:HIS:N	2.21	0.53
2:A:2920:ARG:O	2:A:2924:GLN:HG2	2.08	0.53
2:A:3534:MET:HA	2:A:3537:LYS:HB2	1.89	0.53
2:A:3965:LEU:HB3	2:A:4026:MET:CE	2.37	0.53
1:J:27:THR:HG23	1:J:38:SER:HB3	1.90	0.53
2:G:76:ARG:NH2	2:G:79:GLN:OE1	2.42	0.53
2:G:107:ILE:HG13	2:G:148:TRP:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1196:PRO:O	2:G:1198:GLN:NE2	2.19	0.53
2:B:209:CYS:HB2	2:B:273:HIS:NE2	2.24	0.53
2:B:883:ALA:HB1	2:B:905:PRO:HA	1.91	0.53
2:B:2578:MET:O	2:B:2581:SER:OG	2.22	0.53
2:B:3090:ALA:HA	2:B:3093:ARG:NH2	2.23	0.53
2:B:4658:ILE:HG12	2:B:4792:LEU:HB3	1.89	0.53
2:I:14:LEU:H	2:I:163:VAL:HG23	1.74	0.53
2:I:41:GLY:HA2	2:I:137:LEU:HD12	1.90	0.53
2:I:228:ASP:N	2:I:228:ASP:OD1	2.40	0.53
2:I:2195:PRO:HA	2:I:2198:MET:HE2	1.91	0.53
2:I:2498:HIS:CD2	2:I:2502:MET:HE3	2.43	0.53
2:I:2929:PHE:HA	2:I:2932:MET:HB2	1.91	0.53
2:I:3206:LEU:HD23	2:I:3207:GLU:HG3	1.91	0.53
1:F:27:THR:HG23	1:F:38:SER:HB3	1.90	0.53
2:A:257:ARG:HA	2:A:286:THR:HG21	1.91	0.53
2:A:4097:MET:HE2	2:A:4108:ILE:HA	1.88	0.53
1:J:22:CYS:HB3	1:J:103:LEU:HD11	1.91	0.53
2:G:289:ARG:HD2	2:G:301:VAL:HG23	1.91	0.53
2:G:491:ILE:O	2:G:495:ASN:ND2	2.41	0.53
2:G:2423:MET:SD	2:G:2494:PHE:HD1	2.30	0.53
2:G:2929:PHE:HA	2:G:2932:MET:HB2	1.91	0.53
2:G:3350:ARG:NH2	2:G:3353:LEU:HD21	2.24	0.53
2:B:1509:ILE:H	2:B:1509:ILE:HD12	1.73	0.53
2:B:3084:GLY:O	2:B:3089:LYS:NZ	2.40	0.53
2:B:3206:LEU:HD23	2:B:3207:GLU:HG3	1.91	0.53
2:B:4701:TRP:CZ2	2:B:4781:GLY:HA3	2.44	0.53
2:I:1196:PRO:O	2:I:1198:GLN:NE2	2.19	0.53
2:I:1509:ILE:HD12	2:I:1509:ILE:H	1.73	0.53
2:I:3038:MET:O	2:I:3042:LEU:HG	2.09	0.53
2:A:920:TYR:HA	2:A:923:GLN:HB3	1.90	0.53
2:A:2827:ARG:HE	2:A:2934:GLY:HA2	1.74	0.53
2:A:3036:LYS:HA	2:A:3039:ILE:HD12	1.91	0.53
2:A:4701:TRP:CZ2	2:A:4781:GLY:HA3	2.44	0.53
2:A:4895:GLY:O	2:G:4892:ARG:NH1	2.40	0.53
2:G:14:LEU:H	2:G:163:VAL:HG23	1.74	0.53
2:G:214:VAL:HG22	2:G:341:TYR:CZ	2.44	0.53
2:G:228:ASP:OD1	2:G:228:ASP:N	2.40	0.53
2:G:1248:VAL:HG22	2:G:1599:MET:HE3	1.90	0.53
2:G:1509:ILE:H	2:G:1509:ILE:HD12	1.73	0.53
2:G:2182:ILE:O	2:G:2186:MET:HG2	2.08	0.53
2:G:3676:ASP:OD1	2:G:3677:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:45:ARG:NH2	2:B:139:GLU:OE2	2.41	0.53
2:B:56:GLN:O	2:B:309:THR:OG1	2.25	0.53
2:B:296:ASP:OD1	2:B:297:GLN:N	2.42	0.53
2:B:350:HIS:CD2	2:B:352:ALA:H	2.27	0.53
2:B:4884:LEU:HD11	2:I:4914:VAL:HG11	1.91	0.53
2:I:76:ARG:NH2	2:I:79:GLN:OE1	2.42	0.53
2:I:2719:TYR:OH	2:I:2953:LYS:O	2.27	0.53
2:I:3036:LYS:HA	2:I:3039:ILE:HD12	1.91	0.53
2:A:76:ARG:NH2	2:A:79:GLN:OE1	2.42	0.53
2:A:697:GLY:HA2	2:A:1636:MET:HE1	1.91	0.53
2:A:872:GLU:OE2	2:A:872:GLU:N	2.36	0.53
2:A:3212:GLU:OE1	2:A:3212:GLU:N	2.42	0.53
2:G:2648:TYR:HE2	2:G:2706:ILE:HG12	1.74	0.53
2:G:3315:LEU:O	2:G:3319:ILE:HG12	2.07	0.53
2:G:4238:CYS:HA	2:G:4241:THR:OG1	2.08	0.53
2:B:257:ARG:HA	2:B:286:THR:HG21	1.91	0.53
2:B:920:TYR:HA	2:B:923:GLN:HB3	1.90	0.53
2:B:940:GLY:O	2:B:1052:ASN:N	2.38	0.53
2:B:2296:GLU:O	2:B:2300:SER:N	2.32	0.53
2:B:3380:ARG:HD2	2:B:3391:GLU:HG3	1.91	0.53
2:I:350:HIS:CD2	2:I:352:ALA:H	2.27	0.53
2:I:1629:GLN:NE2	2:I:1631:GLN:OE1	2.41	0.53
2:I:3019:SER:O	2:I:3036:LYS:NZ	2.42	0.53
2:I:3103:ILE:O	2:I:3106:MET:HG2	2.09	0.53
2:I:3182:TYR:HA	2:I:3185:LYS:HD3	1.91	0.53
2:I:3380:ARG:HD2	2:I:3391:GLU:HG3	1.91	0.53
2:I:4035:VAL:HA	2:I:4189:ARG:HH21	1.74	0.53
2:A:1248:VAL:HG22	2:A:1599:MET:HE3	1.90	0.53
2:A:1509:ILE:HD12	2:A:1509:ILE:H	1.73	0.53
2:A:3206:LEU:HD23	2:A:3207:GLU:HG3	1.91	0.53
2:A:3527:PRO:HB3	2:A:3569:LEU:HD12	1.90	0.53
1:H:22:CYS:HB3	1:H:103:LEU:HD11	1.91	0.53
2:G:209:CYS:HB2	2:G:273:HIS:NE2	2.24	0.53
2:G:350:HIS:HD2	2:G:352:ALA:H	1.55	0.53
2:G:697:GLY:HA2	2:G:1636:MET:HE1	1.91	0.53
2:G:2115:GLU:OE1	2:G:2115:GLU:N	2.38	0.53
2:G:3038:MET:O	2:G:3042:LEU:HG	2.09	0.53
2:G:3182:TYR:HA	2:G:3185:LYS:HD3	1.91	0.53
2:G:3391:GLU:HA	2:G:3394:VAL:HG22	1.90	0.53
2:B:1248:VAL:HG22	2:B:1599:MET:HE3	1.90	0.53
2:B:2560:PRO:O	2:B:2563:THR:OG1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2590:SER:O	2:B:2600:ARG:NH1	2.42	0.53
2:B:3036:LYS:HA	2:B:3039:ILE:HD12	1.91	0.53
2:B:3103:ILE:HD13	2:B:3168:THR:HG23	1.90	0.53
2:B:3391:GLU:HA	2:B:3394:VAL:HG22	1.90	0.53
2:I:273:HIS:ND1	2:I:335:GLY:O	2.42	0.53
2:I:676:THR:HG22	2:I:677:ALA:N	2.23	0.53
2:I:697:GLY:HA2	2:I:1636:MET:HE1	1.91	0.53
2:I:3532:LEU:HD23	2:I:3535:LEU:HD12	1.91	0.53
2:I:3780:LEU:HD11	2:I:3816:MET:HB3	1.90	0.53
2:A:45:ARG:NH2	2:A:139:GLU:OE2	2.41	0.53
2:A:3182:TYR:HA	2:A:3185:LYS:HD3	1.91	0.53
2:A:3391:GLU:HA	2:A:3394:VAL:HG22	1.90	0.53
2:G:2195:PRO:HA	2:G:2198:MET:HE2	1.91	0.53
2:G:3036:LYS:HA	2:G:3039:ILE:HD12	1.91	0.53
2:G:3137:LEU:HB3	2:G:3138:PRO:HD3	1.91	0.53
2:G:4224:GLU:O	2:G:4230:LYS:HE2	2.09	0.53
2:B:394:GLN:N	2:B:397:GLU:OE2	2.36	0.53
2:B:2212:VAL:HG22	2:B:2256:TYR:CZ	2.43	0.53
2:B:2635:GLU:OE1	2:B:2635:GLU:N	2.32	0.53
2:B:2648:TYR:HE2	2:B:2706:ILE:HG12	1.74	0.53
2:B:3669:PHE:HA	2:B:3672:ARG:HH21	1.74	0.53
2:B:4197:ILE:HD13	2:B:4990:PHE:HB3	1.91	0.53
2:B:4968:PHE:O	2:B:4974:GLY:HA3	2.09	0.53
2:I:214:VAL:HG22	2:I:341:TYR:CZ	2.44	0.53
2:I:2912:THR:HG23	2:I:2915:GLU:H	1.74	0.53
2:A:196:MET:HE2	2:A:196:MET:HA	1.91	0.52
2:A:296:ASP:OD1	2:A:297:GLN:N	2.42	0.52
2:A:649:PHE:HB3	2:A:776:LEU:HD13	1.90	0.52
2:A:1719:HIS:CD2	2:A:1802:ILE:HB	2.44	0.52
2:G:41:GLY:HA2	2:G:137:LEU:HD12	1.90	0.52
2:G:883:ALA:HB1	2:G:905:PRO:HA	1.91	0.52
2:G:2175:GLU:OE2	2:G:2227:LYS:NZ	2.42	0.52
2:G:2590:SER:O	2:G:2600:ARG:NH1	2.42	0.52
2:G:2912:THR:HG23	2:G:2915:GLU:H	1.74	0.52
2:B:273:HIS:ND1	2:B:335:GLY:O	2.42	0.52
2:B:3107:VAL:O	2:B:3111:ARG:HG2	2.09	0.52
2:B:4237:PHE:HE1	2:B:4668:LEU:HD11	1.74	0.52
2:I:289:ARG:HD2	2:I:301:VAL:HG23	1.91	0.52
2:I:3107:VAL:O	2:I:3111:ARG:HG2	2.09	0.52
2:I:3198:ALA:HB2	2:I:3276:MET:HG3	1.91	0.52
2:I:3391:GLU:HA	2:I:3394:VAL:HG22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:883:ALA:HB1	2:A:905:PRO:HA	1.90	0.52
2:A:1260:MET:HB2	2:A:1269:CYS:SG	2.50	0.52
2:A:2191:PHE:CD1	2:A:2198:MET:HE3	2.45	0.52
2:A:2648:TYR:HE2	2:A:2706:ILE:HG12	1.74	0.52
2:A:2912:THR:HG23	2:A:2915:GLU:H	1.74	0.52
2:A:4224:GLU:O	2:A:4230:LYS:HE2	2.09	0.52
2:G:196:MET:HE2	2:G:196:MET:HA	1.91	0.52
2:G:350:HIS:CD2	2:G:352:ALA:H	2.27	0.52
2:G:920:TYR:HA	2:G:923:GLN:HB3	1.90	0.52
2:B:2191:PHE:CD1	2:B:2198:MET:HE3	2.44	0.52
2:B:2752:ASP:HA	2:B:2755:ILE:HD12	1.90	0.52
2:B:3038:MET:O	2:B:3042:LEU:HG	2.09	0.52
2:B:3212:GLU:OE1	2:B:3212:GLU:N	2.42	0.52
2:B:5007:GLU:N	2:B:5007:GLU:OE1	2.41	0.52
2:I:45:ARG:NH2	2:I:139:GLU:OE2	2.41	0.52
2:I:3137:LEU:HB3	2:I:3138:PRO:HD3	1.91	0.52
2:I:4197:ILE:HD13	2:I:4990:PHE:HB3	1.92	0.52
2:A:2115:GLU:OE1	2:A:2115:GLU:N	2.39	0.52
2:A:2634:ASN:HD21	2:A:2636:PHE:HB2	1.75	0.52
2:A:3038:MET:O	2:A:3042:LEU:HG	2.09	0.52
2:A:3107:VAL:O	2:A:3111:ARG:HG2	2.09	0.52
2:A:4237:PHE:HE1	2:A:4668:LEU:HD11	1.73	0.52
2:A:4243:PHE:O	2:A:4247:ILE:HD12	2.10	0.52
2:A:4968:PHE:O	2:A:4974:GLY:HA3	2.09	0.52
1:H:27:THR:HG23	1:H:38:SER:HB3	1.90	0.52
2:G:1867:GLU:OE2	2:G:1928:GLN:NE2	2.42	0.52
2:G:2634:ASN:HD21	2:G:2636:PHE:HB2	1.75	0.52
2:G:2716:ASP:HB2	2:G:2719:TYR:HD1	1.75	0.52
2:G:3532:LEU:HD23	2:G:3535:LEU:HD12	1.91	0.52
2:G:3669:PHE:HA	2:G:3672:ARG:HH21	1.74	0.52
2:B:289:ARG:HD2	2:B:301:VAL:HG23	1.91	0.52
2:B:697:GLY:HA2	2:B:1636:MET:HE1	1.91	0.52
2:B:3676:ASP:OD1	2:B:3677:LEU:N	2.42	0.52
2:B:4035:VAL:HA	2:B:4189:ARG:HH21	1.74	0.52
2:I:209:CYS:HB2	2:I:273:HIS:NE2	2.24	0.52
2:I:1149:VAL:HG13	2:I:1149:VAL:O	2.10	0.52
2:I:2590:SER:O	2:I:2600:ARG:NH1	2.42	0.52
2:I:4237:PHE:HE1	2:I:4668:LEU:HD11	1.73	0.52
2:I:4968:PHE:O	2:I:4974:GLY:HA3	2.09	0.52
2:I:4976:GLU:O	2:I:4980:LEU:N	2.41	0.52
2:A:862:VAL:O	2:A:864:PRO:HD3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3103:ILE:HD13	2:A:3168:THR:HG23	1.90	0.52
2:A:3350:ARG:NH2	2:A:3353:LEU:HD21	2.24	0.52
2:A:4000:MET:SD	2:A:4001:MET:N	2.83	0.52
1:O:54:GLU:H	1:O:54:GLU:CD	2.08	0.52
2:G:862:VAL:O	2:G:864:PRO:HD3	2.10	0.52
2:G:2191:PHE:CD1	2:G:2198:MET:HE3	2.44	0.52
2:G:3148:ALA:HB2	2:G:3196:ARG:HH22	1.75	0.52
2:G:3719:ASP:H	2:G:3793:MET:CE	2.23	0.52
2:G:4035:VAL:HA	2:G:4189:ARG:HH21	1.74	0.52
2:B:1259:ARG:HD2	2:B:1270:LEU:HD22	1.92	0.52
2:B:1867:GLU:OE2	2:B:1928:GLN:NE2	2.43	0.52
2:B:2827:ARG:HE	2:B:2934:GLY:HA2	1.74	0.52
2:B:3350:ARG:NH2	2:B:3353:LEU:HD21	2.24	0.52
2:I:649:PHE:HB3	2:I:776:LEU:HD13	1.90	0.52
2:I:1719:HIS:CD2	2:I:1802:ILE:HB	2.44	0.52
2:I:2175:GLU:OE2	2:I:2227:LYS:NZ	2.42	0.52
2:I:2648:TYR:HE2	2:I:2706:ILE:HG12	1.74	0.52
2:I:3212:GLU:OE1	2:I:3212:GLU:N	2.42	0.52
2:I:3719:ASP:H	2:I:3793:MET:CE	2.23	0.52
2:I:4243:PHE:O	2:I:4247:ILE:HD12	2.10	0.52
2:A:2590:SER:O	2:A:2600:ARG:NH1	2.42	0.52
2:A:2716:ASP:HB2	2:A:2719:TYR:HD1	1.75	0.52
2:A:3103:ILE:O	2:A:3106:MET:HG2	2.09	0.52
2:A:3141:THR:HG22	2:A:3193:CYS:HA	1.92	0.52
2:A:3669:PHE:HA	2:A:3672:ARG:HH21	1.74	0.52
2:A:4197:ILE:HD13	2:A:4990:PHE:HB3	1.91	0.52
2:A:5007:GLU:OE1	2:A:5007:GLU:N	2.41	0.52
2:G:286:THR:HG23	2:G:287:THR:HG23	1.92	0.52
2:G:3206:LEU:HD23	2:G:3207:GLU:HG3	1.91	0.52
2:G:4701:TRP:CZ2	2:G:4781:GLY:HA3	2.44	0.52
2:B:214:VAL:HG22	2:B:341:TYR:CZ	2.44	0.52
2:B:2195:PRO:HA	2:B:2198:MET:HE2	1.91	0.52
2:B:3103:ILE:O	2:B:3106:MET:HG2	2.09	0.52
2:B:4054:ASN:O	2:B:4058:ILE:HG13	2.10	0.52
2:B:4658:ILE:CG1	2:B:4792:LEU:HB3	2.40	0.52
2:I:196:MET:HA	2:I:196:MET:HE2	1.91	0.52
2:I:296:ASP:OD1	2:I:297:GLN:N	2.42	0.52
2:I:1867:GLU:OE2	2:I:1928:GLN:NE2	2.42	0.52
2:I:4054:ASN:O	2:I:4058:ILE:HG13	2.10	0.52
2:I:4142:ASN:OD1	2:I:4143:VAL:N	2.43	0.52
2:A:2560:PRO:O	2:A:2563:THR:OG1	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3019:SER:O	2:A:3036:LYS:NZ	2.42	0.52
2:A:3050:VAL:HG23	2:A:3131:TYR:OH	2.10	0.52
2:A:3637:ARG:HH21	2:A:3640:PRO:HD3	1.75	0.52
2:G:56:GLN:O	2:G:309:THR:OG1	2.25	0.52
2:G:296:ASP:OD1	2:G:297:GLN:N	2.42	0.52
2:G:1260:MET:HB2	2:G:1269:CYS:SG	2.49	0.52
2:G:1561:VAL:HG23	2:G:1562:ILE:H	1.74	0.52
2:G:4914:VAL:HG11	2:I:4884:LEU:HD11	1.92	0.52
2:B:1005:TRP:HA	2:B:1016:ARG:O	2.08	0.52
2:I:1259:ARG:HD2	2:I:1270:LEU:HD22	1.92	0.52
2:I:1260:MET:HB2	2:I:1269:CYS:SG	2.49	0.52
2:I:4701:TRP:CZ2	2:I:4781:GLY:HA3	2.44	0.52
2:A:1867:GLU:OE2	2:A:1928:GLN:NE2	2.43	0.52
2:A:2752:ASP:HA	2:A:2755:ILE:HD12	1.90	0.52
2:A:3532:LEU:HD23	2:A:3535:LEU:HD12	1.91	0.52
2:G:1149:VAL:O	2:G:1149:VAL:HG13	2.10	0.52
2:G:1629:GLN:NE2	2:G:1631:GLN:OE1	2.41	0.52
2:G:2992:GLU:HA	2:G:2995:ILE:HD12	1.92	0.52
2:G:3050:VAL:HG23	2:G:3131:TYR:OH	2.10	0.52
2:G:3103:ILE:O	2:G:3106:MET:HG2	2.09	0.52
2:G:3637:ARG:HH21	2:G:3640:PRO:HD3	1.75	0.52
2:G:4054:ASN:O	2:G:4058:ILE:HG13	2.10	0.52
2:B:676:THR:HG22	2:B:677:ALA:N	2.23	0.52
2:I:107:ILE:HG13	2:I:148:TRP:HB2	1.91	0.52
2:I:1928:GLN:OE1	2:I:1928:GLN:N	2.42	0.52
2:I:4000:MET:SD	2:I:4001:MET:N	2.83	0.52
2:I:4658:ILE:CG1	2:I:4792:LEU:HB3	2.40	0.52
2:A:1927:LEU:HD13	2:A:2101:MET:HG3	1.92	0.52
2:A:3148:ALA:HB2	2:A:3196:ARG:HH22	1.75	0.52
2:A:3380:ARG:HD2	2:A:3391:GLU:HG3	1.91	0.52
2:A:4688:ILE:HD11	2:A:4737:ILE:HG21	1.92	0.52
2:G:3090:ALA:HA	2:G:3093:ARG:NH2	2.23	0.52
2:G:3380:ARG:HD2	2:G:3391:GLU:HG3	1.91	0.52
2:B:228:ASP:OD1	2:B:228:ASP:N	2.40	0.52
2:B:652:ARG:HB3	2:B:750:LEU:HD13	1.92	0.52
2:B:1260:MET:HB2	2:B:1269:CYS:SG	2.49	0.52
2:B:3198:ALA:HB2	2:B:3276:MET:HG3	1.91	0.52
2:B:4142:ASN:OD1	2:B:4143:VAL:N	2.43	0.52
2:I:102:LEU:HB2	2:I:105:HIS:CD2	2.45	0.52
2:I:257:ARG:HA	2:I:286:THR:HG21	1.91	0.52
2:I:2466:LEU:O	2:I:2470:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2647:HIS:O	2:I:2651:CYS:N	2.34	0.52
2:I:3050:VAL:HG23	2:I:3131:TYR:OH	2.10	0.52
2:I:3267:PRO:HB2	2:I:3270:ILE:HG12	1.92	0.52
2:I:4229:GLU:HG2	2:I:5019:TRP:HD1	1.75	0.52
2:A:1149:VAL:HG13	2:A:1149:VAL:O	2.10	0.52
2:A:3676:ASP:OD1	2:A:3677:LEU:N	2.42	0.52
1:O:27:THR:HG23	1:O:38:SER:HB3	1.90	0.52
2:G:273:HIS:ND1	2:G:335:GLY:O	2.42	0.52
2:G:1927:LEU:HD13	2:G:2101:MET:HG3	1.92	0.52
2:G:2747:ILE:HG12	2:G:2814:LYS:HG3	1.92	0.52
2:G:2758:PHE:HD2	2:G:2809:ILE:HG12	1.75	0.52
2:G:3198:ALA:HB2	2:G:3276:MET:HG3	1.91	0.52
2:G:3212:GLU:OE1	2:G:3212:GLU:N	2.42	0.52
2:G:4914:VAL:HG13	2:I:4888:TYR:CD1	2.45	0.52
2:B:196:MET:HE2	2:B:196:MET:HA	1.91	0.52
2:B:1149:VAL:O	2:B:1149:VAL:HG13	2.10	0.52
2:B:1928:GLN:N	2:B:1928:GLN:OE1	2.42	0.52
2:B:2466:LEU:O	2:B:2470:ILE:HG12	2.10	0.52
2:I:1248:VAL:HG22	2:I:1599:MET:HE3	1.90	0.52
2:I:2752:ASP:HA	2:I:2755:ILE:HD12	1.91	0.52
2:A:213:TYR:HA	2:A:339:ILE:O	2.10	0.52
2:A:394:GLN:N	2:A:397:GLU:OE2	2.36	0.52
2:A:2012:PHE:CE2	2:A:2028:ARG:HB2	2.45	0.52
2:A:2195:PRO:HA	2:A:2198:MET:HE2	1.91	0.52
2:A:2992:GLU:HA	2:A:2995:ILE:HD12	1.92	0.52
2:A:4035:VAL:HA	2:A:4189:ARG:HH21	1.74	0.52
2:G:2012:PHE:CE2	2:G:2028:ARG:HB2	2.45	0.52
2:G:2300:SER:C	2:G:2302:LEU:H	2.18	0.52
2:G:3107:VAL:O	2:G:3111:ARG:HG2	2.09	0.52
2:G:4059:LEU:CD2	2:G:4167:ALA:HB2	2.40	0.52
2:G:4142:ASN:OD1	2:G:4143:VAL:N	2.43	0.52
2:G:4197:ILE:HD13	2:G:4990:PHE:HB3	1.91	0.52
2:G:4968:PHE:O	2:G:4974:GLY:HA3	2.09	0.52
2:B:2623:LEU:HD21	2:B:2678:LEU:HD11	1.92	0.52
2:B:4976:GLU:O	2:B:4980:LEU:N	2.41	0.52
2:I:2747:ILE:HG12	2:I:2814:LYS:HG3	1.92	0.52
2:I:2758:PHE:HD2	2:I:2809:ILE:HG12	1.75	0.52
2:I:3637:ARG:HH21	2:I:3640:PRO:HD3	1.75	0.52
2:I:4068:LEU:HD13	2:I:4111:LEU:HD13	1.92	0.52
2:I:4224:GLU:O	2:I:4230:LYS:HE2	2.09	0.52
2:A:289:ARG:HD2	2:A:301:VAL:HG23	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4097:MET:HE2	2:A:4108:ILE:HD13	1.92	0.51
2:A:4658:ILE:CG1	2:A:4792:LEU:HB3	2.40	0.51
2:G:213:TYR:HA	2:G:339:ILE:O	2.10	0.51
2:G:257:ARG:HA	2:G:286:THR:HG21	1.91	0.51
2:G:676:THR:HG22	2:G:677:ALA:N	2.23	0.51
2:G:2239:PHE:HB3	2:G:2250:MET:HE1	1.93	0.51
2:G:4000:MET:SD	2:G:4001:MET:N	2.83	0.51
2:G:4674:GLU:OE2	2:G:4715:TYR:N	2.28	0.51
2:B:107:ILE:HG13	2:B:148:TRP:HB2	1.91	0.51
2:B:3637:ARG:HH21	2:B:3640:PRO:HD3	1.75	0.51
2:B:4224:GLU:O	2:B:4230:LYS:HE2	2.09	0.51
2:I:3676:ASP:OD1	2:I:3677:LEU:N	2.42	0.51
2:I:3994:HIS:CD2	2:I:4054:ASN:HD21	2.28	0.51
2:I:4059:LEU:CD2	2:I:4167:ALA:HB2	2.40	0.51
1:F:56:ILE:HD12	1:F:81:ALA:HA	1.92	0.51
2:A:107:ILE:HG13	2:A:148:TRP:HB2	1.91	0.51
2:A:273:HIS:ND1	2:A:335:GLY:O	2.42	0.51
2:A:3994:HIS:CD2	2:A:4054:ASN:HD21	2.28	0.51
2:A:4087:LEU:HD23	2:A:4122:MET:O	2.11	0.51
2:A:4578:LEU:CD1	2:B:4849:TYR:HE1	2.20	0.51
2:G:515:TRP:CZ3	2:G:555:GLU:HG2	2.45	0.51
2:G:1259:ARG:HD2	2:G:1270:LEU:HD22	1.92	0.51
2:G:1265:ASP:OD1	2:G:1266:THR:N	2.39	0.51
2:G:4658:ILE:CG1	2:G:4792:LEU:HB3	2.40	0.51
2:B:102:LEU:HB2	2:B:105:HIS:CD2	2.45	0.51
2:B:515:TRP:CZ3	2:B:555:GLU:HG2	2.45	0.51
2:B:3182:TYR:HA	2:B:3185:LYS:HD3	1.91	0.51
2:B:3719:ASP:H	2:B:3793:MET:CE	2.23	0.51
2:B:3994:HIS:CD2	2:B:4054:ASN:HD21	2.28	0.51
2:I:2191:PHE:CD1	2:I:2198:MET:HE3	2.45	0.51
2:I:2300:SER:C	2:I:2302:LEU:H	2.18	0.51
2:I:3669:PHE:HA	2:I:3672:ARG:HH21	1.74	0.51
2:A:102:LEU:HB2	2:A:105:HIS:CD2	2.45	0.51
2:A:1259:ARG:HD2	2:A:1270:LEU:HD22	1.92	0.51
2:A:2239:PHE:HB3	2:A:2250:MET:HE1	1.93	0.51
2:A:2867:LEU:HD13	2:A:2927:LEU:HD23	1.93	0.51
2:A:3719:ASP:H	2:A:3793:MET:CE	2.23	0.51
2:A:3904:ARG:NH1	2:A:3975:GLY:HA3	2.26	0.51
2:A:5017:ARG:HD2	2:A:5019:TRP:HZ2	1.76	0.51
1:H:56:ILE:HD12	1:H:81:ALA:HA	1.92	0.51
2:G:2170:MET:SD	2:G:2228:MET:HE3	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2868:SER:O	2:G:2872:GLN:N	2.36	0.51
2:G:4243:PHE:O	2:G:4247:ILE:HD12	2.10	0.51
2:B:210:GLU:OE1	2:B:210:GLU:N	2.43	0.51
2:B:1436:SER:HG	2:B:1516:ILE:C	2.17	0.51
2:B:1629:GLN:NE2	2:B:1631:GLN:OE1	2.41	0.51
2:I:2867:LEU:HD13	2:I:2927:LEU:HD23	1.93	0.51
2:I:3904:ARG:NH1	2:I:3975:GLY:HA3	2.26	0.51
2:A:1454:THR:OG1	2:A:1456:ASP:OD2	2.24	0.51
2:A:2623:LEU:HD21	2:A:2678:LEU:HD11	1.92	0.51
2:A:3958:ALA:O	2:A:3961:VAL:HG12	2.10	0.51
2:G:813:GLU:OE1	2:G:1017:ARG:NH2	2.44	0.51
2:G:2466:LEU:O	2:G:2470:ILE:HG12	2.10	0.51
2:G:2719:TYR:OH	2:G:2953:LYS:O	2.26	0.51
2:B:1561:VAL:HG23	2:B:1562:ILE:H	1.74	0.51
2:B:2576:ALA:HA	2:B:2618:MET:HE1	1.91	0.51
2:B:2758:PHE:HD2	2:B:2809:ILE:HG12	1.75	0.51
2:B:3148:ALA:HB2	2:B:3196:ARG:HH22	1.75	0.51
2:B:3445:TRP:HA	2:B:3451:PHE:HD1	1.76	0.51
2:B:3904:ARG:NH1	2:B:3975:GLY:HA3	2.26	0.51
2:B:4068:LEU:HD13	2:B:4111:LEU:HD13	1.92	0.51
2:B:4676:GLU:HB3	2:B:4680:LYS:NZ	2.26	0.51
2:B:5017:ARG:HD2	2:B:5019:TRP:HZ2	1.76	0.51
2:I:213:TYR:HA	2:I:339:ILE:O	2.10	0.51
2:I:286:THR:HG23	2:I:287:THR:HG23	1.92	0.51
2:I:2012:PHE:CE2	2:I:2028:ARG:HB2	2.45	0.51
2:I:2576:ALA:HA	2:I:2618:MET:HE1	1.91	0.51
2:I:2992:GLU:HA	2:I:2995:ILE:HD12	1.92	0.51
2:I:3148:ALA:HB2	2:I:3196:ARG:HH22	1.75	0.51
2:I:3958:ALA:O	2:I:3961:VAL:HG12	2.10	0.51
2:I:4097:MET:HE2	2:I:4108:ILE:HD13	1.92	0.51
2:I:4674:GLU:OE2	2:I:4715:TYR:N	2.28	0.51
2:A:2346:VAL:HG12	2:A:2349:ASN:H	1.76	0.51
2:A:2383:ALA:O	2:A:2387:SER:OG	2.27	0.51
2:A:2466:LEU:O	2:A:2470:ILE:HG12	2.10	0.51
2:A:2929:PHE:HA	2:A:2932:MET:HB2	1.91	0.51
2:A:3445:TRP:HA	2:A:3451:PHE:HD1	1.75	0.51
2:A:4142:ASN:OD1	2:A:4143:VAL:N	2.43	0.51
2:G:2752:ASP:HA	2:G:2755:ILE:HD12	1.90	0.51
2:G:3904:ARG:NH1	2:G:3975:GLY:HA3	2.26	0.51
2:G:3994:HIS:CD2	2:G:4054:ASN:HD21	2.28	0.51
2:G:4087:LEU:HD23	2:G:4122:MET:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4221:VAL:HG21	2:G:4959:PHE:HZ	1.76	0.51
2:G:4976:GLU:O	2:G:4980:LEU:N	2.41	0.51
2:G:5017:ARG:HD2	2:G:5019:TRP:HZ2	1.76	0.51
2:B:317:ARG:HG3	2:B:349:GLN:OE1	2.11	0.51
2:B:813:GLU:OE1	2:B:1017:ARG:NH2	2.44	0.51
2:B:2115:GLU:OE1	2:B:2115:GLU:N	2.38	0.51
2:B:3141:THR:HG22	2:B:3193:CYS:HA	1.92	0.51
2:B:3532:LEU:HD23	2:B:3535:LEU:HD12	1.91	0.51
2:B:4243:PHE:O	2:B:4247:ILE:HD12	2.10	0.51
2:B:4688:ILE:HD11	2:B:4737:ILE:HG21	1.92	0.51
2:A:1265:ASP:OD1	2:A:1266:THR:N	2.39	0.51
2:A:3198:ALA:HB2	2:A:3276:MET:HG3	1.91	0.51
2:A:3267:PRO:HB2	2:A:3270:ILE:HG12	1.92	0.51
2:A:3410:PRO:HD3	2:A:3509:LEU:HD13	1.93	0.51
2:A:4229:GLU:HG2	2:A:5019:TRP:HD1	1.75	0.51
2:G:102:LEU:HB2	2:G:105:HIS:CD2	2.45	0.51
2:G:2576:ALA:HA	2:G:2618:MET:HE1	1.91	0.51
2:G:2623:LEU:HD21	2:G:2678:LEU:HD11	1.92	0.51
2:G:2695:LEU:HA	2:G:2698:MET:HG3	1.93	0.51
2:B:1977:TYR:O	2:B:1981:MET:HG2	2.10	0.51
2:B:3137:LEU:HB3	2:B:3138:PRO:HD3	1.91	0.51
2:B:4000:MET:SD	2:B:4001:MET:N	2.83	0.51
2:I:862:VAL:O	2:I:864:PRO:HD3	2.10	0.51
2:I:1561:VAL:HG23	2:I:1562:ILE:H	1.74	0.51
2:I:3350:ARG:NH2	2:I:3353:LEU:HD21	2.24	0.51
2:A:266:ARG:NH2	2:A:330:ASP:HB3	2.26	0.51
2:A:286:THR:HG23	2:A:287:THR:HG23	1.92	0.51
2:A:317:ARG:HG3	2:A:349:GLN:OE1	2.11	0.51
2:A:1144:GLN:N	2:A:1147:ASP:OD2	2.43	0.51
2:A:1561:VAL:HG23	2:A:1562:ILE:H	1.74	0.51
2:A:2695:LEU:HA	2:A:2698:MET:HG3	1.93	0.51
2:A:2747:ILE:HG12	2:A:2814:LYS:HG3	1.92	0.51
2:A:2758:PHE:HD2	2:A:2809:ILE:HG12	1.75	0.51
2:A:2867:LEU:HD23	2:A:2867:LEU:H	1.76	0.51
2:A:2980:VAL:O	2:A:2984:GLY:N	2.43	0.51
2:A:4676:GLU:HB3	2:A:4680:LYS:NZ	2.26	0.51
2:G:2648:TYR:O	2:G:2652:TRP:N	2.44	0.51
2:G:3141:THR:HG22	2:G:3193:CYS:HA	1.92	0.51
2:G:3445:TRP:HA	2:G:3451:PHE:HD1	1.76	0.51
2:G:4229:GLU:HG2	2:G:5019:TRP:HD1	1.75	0.51
2:B:213:TYR:HA	2:B:339:ILE:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:286:THR:HG23	2:B:287:THR:HG23	1.92	0.51
2:B:1157:GLU:N	2:B:1157:GLU:OE1	2.44	0.51
2:B:2239:PHE:HB3	2:B:2250:MET:HE1	1.93	0.51
2:B:2929:PHE:HA	2:B:2932:MET:HB2	1.91	0.51
2:I:210:GLU:OE1	2:I:210:GLU:N	2.43	0.51
2:I:317:ARG:HG3	2:I:349:GLN:OE1	2.11	0.51
2:I:1218:GLY:O	2:I:1223:PHE:HB2	2.11	0.51
2:I:1977:TYR:O	2:I:1981:MET:HG2	2.11	0.51
2:I:3445:TRP:HA	2:I:3451:PHE:HD1	1.75	0.51
2:I:4221:VAL:HG21	2:I:4959:PHE:HZ	1.76	0.51
2:A:515:TRP:CZ3	2:A:555:GLU:HG2	2.45	0.51
2:A:1000:ARG:HB2	2:A:1021:LEU:HD11	1.93	0.51
2:A:1218:GLY:O	2:A:1223:PHE:HB2	2.11	0.51
2:A:2576:ALA:HA	2:A:2618:MET:HE1	1.91	0.51
2:A:4059:LEU:CD2	2:A:4167:ALA:HB2	2.40	0.51
2:A:4094:GLN:NE2	2:A:4098:ASP:OD2	2.44	0.51
1:J:56:ILE:HD12	1:J:81:ALA:HA	1.92	0.51
2:G:4676:GLU:HB3	2:G:4680:LYS:NZ	2.26	0.51
2:G:4688:ILE:HD11	2:G:4737:ILE:HG21	1.92	0.51
2:B:1000:ARG:HB2	2:B:1021:LEU:HD11	1.93	0.51
2:B:1218:GLY:O	2:B:1223:PHE:HB2	2.11	0.51
2:B:1927:LEU:HD13	2:B:2101:MET:HG3	1.92	0.51
2:B:2026:ASP:N	2:B:2026:ASP:OD1	2.43	0.51
2:B:2867:LEU:HD23	2:B:2867:LEU:H	1.76	0.51
2:B:4161:ARG:HB3	2:B:4165:GLU:OE2	2.11	0.51
2:B:4229:GLU:HG2	2:B:5019:TRP:HD1	1.75	0.51
2:I:152:PRO:HA	2:I:169:LEU:HA	1.93	0.51
2:I:652:ARG:HB3	2:I:750:LEU:HD13	1.92	0.51
2:I:2634:ASN:HD21	2:I:2636:PHE:HB2	1.75	0.51
2:I:4688:ILE:HD11	2:I:4737:ILE:HG21	1.92	0.51
2:A:103:TYR:CE1	2:A:163:VAL:HG12	2.46	0.51
2:A:3137:LEU:HB3	2:A:3138:PRO:HD3	1.91	0.51
2:G:266:ARG:NH2	2:G:330:ASP:HB3	2.26	0.51
2:G:652:ARG:HB3	2:G:750:LEU:HD13	1.92	0.51
2:B:2346:VAL:HG12	2:B:2349:ASN:H	1.76	0.51
2:B:2383:ALA:O	2:B:2387:SER:OG	2.27	0.51
2:B:2687:ALA:HB1	2:B:2966:TRP:CZ2	2.46	0.51
2:B:2912:THR:HG23	2:B:2915:GLU:H	1.74	0.51
2:B:3050:VAL:HG23	2:B:3131:TYR:OH	2.10	0.51
2:I:1157:GLU:OE1	2:I:1157:GLU:N	2.44	0.51
2:A:155:LYS:O	2:A:158:SER:OG	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:31:GLN:HA	1:O:98:ILE:HD13	1.93	0.51
1:O:56:ILE:HD12	1:O:81:ALA:HA	1.92	0.51
2:G:317:ARG:HG3	2:G:349:GLN:OE1	2.11	0.51
2:G:3267:PRO:HB2	2:G:3270:ILE:HG12	1.92	0.51
2:G:4094:GLN:NE2	2:G:4098:ASP:OD2	2.44	0.51
2:B:2170:MET:SD	2:B:2228:MET:HE3	2.50	0.51
2:B:2175:GLU:HG3	2:B:2228:MET:HE2	1.93	0.51
2:B:2175:GLU:OE2	2:B:2227:LYS:NZ	2.42	0.51
2:B:2747:ILE:HG12	2:B:2814:LYS:HG3	1.92	0.51
2:B:4097:MET:HE2	2:B:4108:ILE:HD13	1.92	0.51
2:I:1927:LEU:HD13	2:I:2101:MET:HG3	1.92	0.51
2:I:1974:ARG:HB2	2:I:3642:TYR:CE2	2.46	0.51
2:I:2170:MET:SD	2:I:2228:MET:HE3	2.50	0.51
2:I:2792:ARG:HH21	2:I:2798:SER:H	1.59	0.51
2:I:2980:VAL:O	2:I:2984:GLY:N	2.43	0.51
2:I:3668:SER:O	2:I:3668:SER:OG	2.28	0.51
2:I:4161:ARG:HB3	2:I:4165:GLU:OE2	2.11	0.51
2:A:2170:MET:SD	2:A:2228:MET:HE3	2.50	0.50
2:A:3422:HIS:HA	2:A:3425:THR:HG22	1.93	0.50
1:J:31:GLN:HA	1:J:98:ILE:HD13	1.93	0.50
2:G:155:LYS:O	2:G:158:SER:OG	2.30	0.50
2:G:226:HIS:O	2:G:226:HIS:ND1	2.39	0.50
2:G:1000:ARG:HB2	2:G:1021:LEU:HD11	1.93	0.50
2:G:1928:GLN:OE1	2:G:1928:GLN:N	2.42	0.50
2:B:232:THR:HG21	2:B:252:VAL:HB	1.93	0.50
2:B:862:VAL:O	2:B:864:PRO:HD3	2.10	0.50
2:B:1926:LEU:O	2:B:1929:MET:HG2	2.11	0.50
2:B:2634:ASN:HD21	2:B:2636:PHE:HB2	1.75	0.50
2:B:2719:TYR:OH	2:B:2953:LYS:O	2.26	0.50
2:B:2980:VAL:O	2:B:2984:GLY:N	2.43	0.50
2:B:2992:GLU:HA	2:B:2995:ILE:HD12	1.92	0.50
2:I:1543:GLU:O	2:I:1546:THR:OG1	2.17	0.50
2:I:2175:GLU:HG3	2:I:2228:MET:HE2	1.94	0.50
2:I:2239:PHE:HB3	2:I:2250:MET:HE1	1.92	0.50
2:I:2716:ASP:HB2	2:I:2719:TYR:HD1	1.75	0.50
2:I:2862:LEU:HD21	2:I:2929:PHE:HB2	1.94	0.50
2:I:4087:LEU:HD23	2:I:4122:MET:O	2.11	0.50
2:I:5017:ARG:HD2	2:I:5019:TRP:HZ2	1.76	0.50
2:A:152:PRO:HA	2:A:169:LEU:HA	1.93	0.50
2:A:1157:GLU:OE1	2:A:1157:GLU:N	2.44	0.50
1:H:31:GLN:HA	1:H:98:ILE:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:152:PRO:HA	2:G:169:LEU:HA	1.93	0.50
2:G:1974:ARG:HB2	2:G:3642:TYR:CE2	2.46	0.50
2:G:2300:SER:O	2:G:2301:TYR:HB2	2.12	0.50
2:G:2582:MET:HA	2:G:2585:THR:HG22	1.94	0.50
2:G:3422:HIS:HA	2:G:3425:THR:HG22	1.94	0.50
2:G:3958:ALA:O	2:G:3961:VAL:HG12	2.10	0.50
2:B:1144:GLN:N	2:B:1147:ASP:OD2	2.43	0.50
2:B:2012:PHE:CE2	2:B:2028:ARG:HB2	2.45	0.50
2:B:2300:SER:C	2:B:2302:LEU:H	2.18	0.50
2:B:2582:MET:HA	2:B:2585:THR:HG22	1.94	0.50
2:B:2862:LEU:HD21	2:B:2929:PHE:HB2	1.94	0.50
2:B:3267:PRO:HB2	2:B:3270:ILE:CG1	2.41	0.50
2:B:3267:PRO:HB2	2:B:3270:ILE:HG12	1.92	0.50
2:B:3958:ALA:O	2:B:3961:VAL:HG12	2.10	0.50
2:B:4087:LEU:HD23	2:B:4122:MET:O	2.11	0.50
2:I:183:SER:HB2	2:I:190:GLN:HB2	1.93	0.50
2:I:813:GLU:OE1	2:I:1017:ARG:NH2	2.44	0.50
2:I:1000:ARG:HB2	2:I:1021:LEU:HD11	1.93	0.50
2:I:3410:PRO:HD3	2:I:3509:LEU:HD13	1.93	0.50
2:A:1926:LEU:O	2:A:1929:MET:HG2	2.12	0.50
2:A:1977:TYR:O	2:A:1981:MET:HG2	2.10	0.50
2:A:2648:TYR:O	2:A:2652:TRP:N	2.44	0.50
2:G:4068:LEU:HD13	2:G:4111:LEU:HD13	1.92	0.50
2:G:4097:MET:HE2	2:G:4108:ILE:HD13	1.92	0.50
2:B:152:PRO:HA	2:B:169:LEU:HA	1.93	0.50
2:B:4059:LEU:CD2	2:B:4167:ALA:HB2	2.40	0.50
2:I:515:TRP:CZ3	2:I:555:GLU:HG2	2.45	0.50
2:I:2560:PRO:O	2:I:2563:THR:OG1	2.23	0.50
2:I:2582:MET:O	2:I:2585:THR:HG22	2.11	0.50
2:I:3111:ARG:HH12	2:I:3175:LEU:HD13	1.76	0.50
2:I:3141:THR:HG22	2:I:3193:CYS:HA	1.92	0.50
2:I:3267:PRO:HB2	2:I:3270:ILE:CG1	2.41	0.50
2:A:232:THR:HG21	2:A:252:VAL:HB	1.93	0.50
2:A:650:VAL:HG21	2:A:662:TRP:CD1	2.47	0.50
2:A:828:GLU:OE2	2:A:828:GLU:N	2.44	0.50
2:A:1629:GLN:NE2	2:A:1631:GLN:OE1	2.41	0.50
2:A:2582:MET:HA	2:A:2585:THR:HG22	1.93	0.50
2:A:4054:ASN:O	2:A:4058:ILE:HG13	2.10	0.50
1:O:78:PRO:HA	1:O:81:ALA:HB3	1.93	0.50
2:G:210:GLU:OE1	2:G:210:GLU:N	2.43	0.50
2:G:232:THR:HG21	2:G:252:VAL:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:959:TYR:CD2	2:G:960:MET:N	2.80	0.50
2:G:1144:GLN:N	2:G:1147:ASP:OD2	2.43	0.50
2:G:1977:TYR:O	2:G:1981:MET:HG2	2.10	0.50
2:G:2031:LEU:HD11	2:G:3657:TYR:CE1	2.47	0.50
2:G:2346:VAL:HG12	2:G:2349:ASN:H	1.76	0.50
2:G:2867:LEU:HD13	2:G:2927:LEU:HD23	1.93	0.50
2:G:3564:GLU:OE1	2:G:3570:ARG:NH1	2.45	0.50
2:B:660:GLY:HA2	2:B:750:LEU:HD11	1.94	0.50
2:B:959:TYR:CD2	2:B:960:MET:N	2.80	0.50
2:B:2695:LEU:HA	2:B:2698:MET:HG3	1.93	0.50
2:B:3422:HIS:HA	2:B:3425:THR:HG22	1.94	0.50
2:B:3637:ARG:NH2	2:B:3640:PRO:HD3	2.27	0.50
2:I:232:THR:HG21	2:I:252:VAL:HB	1.94	0.50
2:I:2300:SER:O	2:I:2301:TYR:HB2	2.12	0.50
2:I:2623:LEU:HD21	2:I:2678:LEU:HD11	1.92	0.50
2:I:2648:TYR:O	2:I:2652:TRP:N	2.44	0.50
2:A:1008:SER:N	2:A:1018:ASN:O	2.45	0.50
2:A:1928:GLN:OE1	2:A:1928:GLN:N	2.42	0.50
2:A:2582:MET:O	2:A:2585:THR:HG22	2.12	0.50
2:A:2640:PRO:O	2:A:2643:LEU:CB	2.58	0.50
2:A:3416:VAL:HG22	2:A:3423:TRP:HZ3	1.77	0.50
2:A:4068:LEU:HD13	2:A:4111:LEU:HD13	1.92	0.50
2:A:4221:VAL:HG21	2:A:4959:PHE:HZ	1.76	0.50
1:H:78:PRO:HA	1:H:81:ALA:HB3	1.93	0.50
2:G:1183:GLU:OE1	2:G:1183:GLU:N	2.32	0.50
2:G:1543:GLU:O	2:G:1546:THR:OG1	2.17	0.50
2:G:4161:ARG:HB3	2:G:4165:GLU:OE2	2.11	0.50
2:B:103:TYR:CE1	2:B:163:VAL:HG12	2.46	0.50
2:B:183:SER:HB2	2:B:190:GLN:HB2	1.93	0.50
2:B:266:ARG:NH2	2:B:330:ASP:HB3	2.26	0.50
2:B:1155:LEU:HD22	2:B:1184:ILE:HG12	1.94	0.50
2:B:1974:ARG:HB2	2:B:3642:TYR:CE2	2.46	0.50
2:B:2300:SER:O	2:B:2301:TYR:HB2	2.12	0.50
2:B:2828:GLU:OE1	2:B:2828:GLU:N	2.43	0.50
2:B:3111:ARG:HH12	2:B:3175:LEU:HD13	1.76	0.50
2:B:3410:PRO:HD3	2:B:3509:LEU:HD13	1.93	0.50
2:B:3984:ARG:HG3	2:B:3984:ARG:O	2.12	0.50
2:I:103:TYR:CE1	2:I:163:VAL:HG12	2.46	0.50
2:I:233:ILE:O	2:I:257:ARG:NH1	2.41	0.50
2:I:660:GLY:HA2	2:I:750:LEU:HD11	1.94	0.50
2:I:880:GLU:OE2	2:I:910:PHE:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1248:VAL:HG22	2:I:1599:MET:CE	2.42	0.50
2:I:2366:PRO:HA	2:I:2369:ARG:CZ	2.41	0.50
2:I:3422:HIS:HA	2:I:3425:THR:HG22	1.93	0.50
2:A:356:TRP:N	2:A:379:HIS:O	2.45	0.50
2:A:652:ARG:HB3	2:A:750:LEU:HD13	1.92	0.50
2:A:813:GLU:OE1	2:A:1017:ARG:NH2	2.44	0.50
2:A:959:TYR:CD2	2:A:960:MET:N	2.80	0.50
2:A:1815:LEU:HG	2:A:1865:MET:SD	2.52	0.50
2:A:2031:LEU:HD11	2:A:3657:TYR:CE1	2.47	0.50
2:A:2578:MET:O	2:A:2581:SER:OG	2.22	0.50
2:A:2687:ALA:HB1	2:A:2966:TRP:CZ2	2.46	0.50
2:A:3637:ARG:NH2	2:A:3640:PRO:HD3	2.27	0.50
2:A:4914:VAL:HG11	2:G:4884:LEU:HD11	1.93	0.50
2:G:3633:VAL:HA	2:G:3636:PHE:HB2	1.93	0.50
2:B:880:GLU:OE2	2:B:910:PHE:HB3	2.12	0.50
2:B:2648:TYR:O	2:B:2652:TRP:N	2.44	0.50
2:I:4094:GLN:NE2	2:I:4098:ASP:OD2	2.44	0.50
2:A:232:THR:OG1	2:A:248:GLU:OE2	2.30	0.50
2:A:1870:VAL:HG11	2:A:2091:PRO:HB2	1.94	0.50
2:A:2419:GLY:O	2:A:2423:MET:N	2.28	0.50
2:A:2828:GLU:OE1	2:A:2828:GLU:N	2.43	0.50
2:A:4221:VAL:HG23	2:A:4230:LYS:NZ	2.26	0.50
2:G:358:THR:HG21	2:G:382:GLY:HA3	1.94	0.50
2:G:2336:ARG:O	2:G:2435:ARG:NH1	2.43	0.50
2:G:2582:MET:O	2:G:2585:THR:HG22	2.12	0.50
2:G:2687:ALA:HB1	2:G:2966:TRP:CZ2	2.46	0.50
2:G:2862:LEU:HD21	2:G:2929:PHE:HB2	1.94	0.50
2:G:2867:LEU:HD23	2:G:2867:LEU:H	1.76	0.50
2:G:2980:VAL:O	2:G:2984:GLY:N	2.43	0.50
2:G:3410:PRO:HD3	2:G:3509:LEU:HD13	1.93	0.50
2:B:358:THR:HG21	2:B:382:GLY:HA3	1.94	0.50
2:B:920:TYR:O	2:B:924:MET:HG3	2.12	0.50
2:B:1815:LEU:HG	2:B:1865:MET:SD	2.52	0.50
2:B:2792:ARG:HH21	2:B:2798:SER:H	1.59	0.50
2:B:2867:LEU:HD13	2:B:2927:LEU:HD23	1.93	0.50
2:B:3019:SER:O	2:B:3036:LYS:NZ	2.42	0.50
2:B:4221:VAL:HG23	2:B:4230:LYS:NZ	2.26	0.50
2:I:266:ARG:NH2	2:I:330:ASP:HB3	2.26	0.50
2:I:1144:GLN:N	2:I:1147:ASP:OD2	2.43	0.50
2:I:2695:LEU:HA	2:I:2698:MET:HG3	1.93	0.50
2:I:2828:GLU:OE1	2:I:2828:GLU:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:31:GLN:HA	1:F:98:ILE:HD13	1.92	0.50
2:A:920:TYR:O	2:A:924:MET:HG3	2.12	0.50
2:A:1991:THR:O	2:A:1995:THR:HG23	2.12	0.50
2:A:2366:PRO:HA	2:A:2369:ARG:CZ	2.41	0.50
2:A:2862:LEU:HD21	2:A:2929:PHE:HB2	1.94	0.50
2:A:3103:ILE:HA	2:A:3106:MET:SD	2.52	0.50
2:G:103:TYR:CE1	2:G:163:VAL:HG12	2.46	0.50
2:G:872:GLU:OE2	2:G:872:GLU:N	2.36	0.50
2:G:2770:LYS:HE2	2:G:2791:LEU:HD11	1.94	0.50
2:G:4221:VAL:HG23	2:G:4230:LYS:NZ	2.26	0.50
2:B:36:CYS:SG	2:B:65:CYS:HB3	2.52	0.50
2:B:449:ILE:HG12	2:B:524:GLU:OE1	2.12	0.50
2:B:2716:ASP:HB2	2:B:2719:TYR:HD1	1.75	0.50
2:B:3354:LEU:HD11	2:B:3434:LEU:HD22	1.93	0.50
2:B:3416:VAL:HG22	2:B:3423:TRP:HZ3	1.77	0.50
2:B:4094:GLN:NE2	2:B:4098:ASP:OD2	2.44	0.50
2:I:920:TYR:O	2:I:924:MET:HG3	2.12	0.50
2:I:1155:LEU:HD22	2:I:1184:ILE:HG12	1.94	0.50
2:I:2692:ASP:H	2:I:2696:TYR:HE2	1.60	0.50
2:I:2867:LEU:HD23	2:I:2867:LEU:H	1.76	0.50
2:I:3637:ARG:NH2	2:I:3640:PRO:HD3	2.27	0.50
2:A:2674:LEU:HA	2:A:2677:LYS:HZ1	1.77	0.50
2:G:1218:GLY:O	2:G:1223:PHE:HB2	2.11	0.50
2:G:1987:SER:OG	2:G:1990:GLU:HB2	2.12	0.50
2:G:2792:ARG:HH21	2:G:2798:SER:H	1.59	0.50
2:G:3354:LEU:HD11	2:G:3434:LEU:HD22	1.93	0.50
2:B:2582:MET:O	2:B:2585:THR:HG22	2.12	0.50
2:B:4221:VAL:HG21	2:B:4959:PHE:HZ	1.76	0.50
2:I:828:GLU:OE2	2:I:828:GLU:N	2.44	0.50
2:I:986:ASP:OD1	2:I:986:ASP:N	2.44	0.50
2:I:2346:VAL:HG12	2:I:2349:ASN:H	1.76	0.50
2:I:2770:LYS:HE2	2:I:2791:LEU:HD11	1.94	0.50
2:I:4087:LEU:O	2:I:4122:MET:HE3	2.12	0.50
2:I:4676:GLU:HB3	2:I:4680:LYS:NZ	2.26	0.50
1:F:78:PRO:HA	1:F:81:ALA:HB3	1.93	0.49
2:A:449:ILE:HG12	2:A:524:GLU:OE1	2.12	0.49
2:A:2300:SER:C	2:A:2302:LEU:H	2.18	0.49
2:A:2300:SER:O	2:A:2301:TYR:HB2	2.12	0.49
2:A:3354:LEU:O	2:A:3359:ILE:HG12	2.12	0.49
2:A:4813:LEU:O	2:A:4816:ILE:HG22	2.12	0.49
2:G:650:VAL:HG21	2:G:662:TRP:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:920:TYR:O	2:G:924:MET:HG3	2.12	0.49
2:G:1110:ARG:NH2	2:G:1112:ASP:OD2	2.45	0.49
2:G:1155:LEU:HD22	2:G:1184:ILE:HG12	1.94	0.49
2:G:1248:VAL:HG22	2:G:1599:MET:CE	2.42	0.49
2:G:1991:THR:O	2:G:1995:THR:HG23	2.12	0.49
2:G:2366:PRO:HA	2:G:2369:ARG:CZ	2.41	0.49
2:G:3267:PRO:HB2	2:G:3270:ILE:CG1	2.42	0.49
2:G:4097:MET:HE3	2:G:4103:PHE:CD2	2.47	0.49
2:B:2366:PRO:HA	2:B:2369:ARG:CZ	2.41	0.49
2:B:4237:PHE:CE1	2:B:4668:LEU:HD11	2.47	0.49
2:B:4878:ASP:OD1	2:B:4879:MET:N	2.46	0.49
2:I:13:PHE:HA	2:I:163:VAL:O	2.12	0.49
2:I:1870:VAL:HG11	2:I:2091:PRO:HB2	1.94	0.49
2:I:2348:GLU:HG2	2:I:3849:ARG:HG3	1.94	0.49
2:I:2582:MET:HA	2:I:2585:THR:HG22	1.93	0.49
2:I:2916:LYS:HD2	2:I:2920:ARG:NH2	2.27	0.49
2:I:3984:ARG:HG3	2:I:3984:ARG:O	2.12	0.49
2:I:4221:VAL:HG23	2:I:4230:LYS:NZ	2.26	0.49
2:I:4830:VAL:HA	2:I:4936:ILE:HD12	1.94	0.49
2:A:650:VAL:HG11	2:A:662:TRP:CE2	2.47	0.49
2:A:981:GLN:O	2:A:985:VAL:HG23	2.12	0.49
2:A:3111:ARG:HH12	2:A:3175:LEU:HD13	1.76	0.49
2:A:3465:ASN:OD1	2:A:3468:SER:N	2.46	0.49
2:G:356:TRP:N	2:G:379:HIS:O	2.45	0.49
2:G:4087:LEU:O	2:G:4122:MET:HE3	2.12	0.49
2:B:13:PHE:HA	2:B:163:VAL:O	2.12	0.49
2:B:870:ILE:HD11	2:B:1049:TYR:CE2	2.48	0.49
2:B:2770:LYS:HE2	2:B:2791:LEU:HD11	1.94	0.49
2:B:4813:LEU:O	2:B:4816:ILE:HG22	2.12	0.49
2:B:4830:VAL:HA	2:B:4936:ILE:HD12	1.94	0.49
2:I:3465:ASN:OD1	2:I:3468:SER:N	2.46	0.49
2:I:4237:PHE:CE1	2:I:4668:LEU:HD11	2.47	0.49
1:F:10:GLY:HA3	1:F:70:GLN:HB2	1.95	0.49
1:F:82:TYR:CE1	1:F:87:HIS:HB2	2.47	0.49
2:A:277:GLY:HA3	2:A:327:PRO:HD3	1.94	0.49
2:A:358:THR:HG21	2:A:382:GLY:HA3	1.94	0.49
2:A:875:ALA:HA	2:A:878:ILE:HG12	1.94	0.49
2:A:2792:ARG:HH21	2:A:2798:SER:H	1.59	0.49
2:A:3354:LEU:HD11	2:A:3434:LEU:HD22	1.94	0.49
2:A:4161:ARG:HB3	2:A:4165:GLU:OE2	2.11	0.49
2:A:4878:ASP:OD1	2:A:4879:MET:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:82:TYR:CE1	1:H:87:HIS:HB2	2.47	0.49
1:J:78:PRO:HA	1:J:81:ALA:HB3	1.93	0.49
2:G:870:ILE:HD11	2:G:1049:TYR:CE2	2.47	0.49
2:G:986:ASP:OD1	2:G:986:ASP:N	2.44	0.49
2:G:1157:GLU:OE1	2:G:1157:GLU:N	2.44	0.49
2:G:1448:VAL:HG12	2:G:1554:VAL:HG23	1.94	0.49
2:G:3033:ASN:O	2:G:3037:GLU:HG2	2.12	0.49
2:G:3065:VAL:O	2:G:3068:LEU:HB2	2.13	0.49
2:G:3637:ARG:NH2	2:G:3640:PRO:HD3	2.27	0.49
2:G:4830:VAL:HA	2:G:4936:ILE:HD12	1.94	0.49
2:G:4878:ASP:OD1	2:G:4879:MET:N	2.45	0.49
2:B:986:ASP:OD1	2:B:986:ASP:N	2.44	0.49
2:B:1248:VAL:HG22	2:B:1599:MET:CE	2.42	0.49
2:B:1991:THR:O	2:B:1995:THR:HG23	2.12	0.49
2:B:2692:ASP:H	2:B:2696:TYR:HE2	1.60	0.49
2:B:2916:LYS:HD2	2:B:2920:ARG:NH2	2.27	0.49
2:B:3103:ILE:HA	2:B:3106:MET:SD	2.52	0.49
2:B:4097:MET:HE3	2:B:4103:PHE:CD2	2.47	0.49
2:B:4888:TYR:CD1	2:I:4914:VAL:HG13	2.47	0.49
2:I:356:TRP:N	2:I:379:HIS:O	2.45	0.49
2:I:358:THR:HG21	2:I:382:GLY:HA3	1.94	0.49
2:I:1815:LEU:HG	2:I:1865:MET:SD	2.52	0.49
2:I:2031:LEU:HD11	2:I:3657:TYR:CE1	2.47	0.49
2:I:4878:ASP:OD1	2:I:4879:MET:N	2.46	0.49
2:I:4983:HIS:CB	3:I:5301:ATP:HN62	2.12	0.49
2:A:1155:LEU:HD22	2:A:1184:ILE:HG12	1.94	0.49
2:A:1987:SER:OG	2:A:1990:GLU:HB2	2.12	0.49
2:A:2175:GLU:OE2	2:A:2227:LYS:NZ	2.42	0.49
2:A:3334:TRP:CH2	2:A:3335:MET:HE2	2.48	0.49
2:A:3934:TYR:HB2	2:A:3999:MET:HE2	1.94	0.49
2:A:4097:MET:HE3	2:A:4103:PHE:CD2	2.47	0.49
2:G:36:CYS:SG	2:G:65:CYS:HB3	2.52	0.49
2:G:449:ILE:HG12	2:G:524:GLU:OE1	2.12	0.49
2:G:660:GLY:HA2	2:G:750:LEU:HD11	1.94	0.49
2:G:697:GLY:C	2:G:1636:MET:HE1	2.38	0.49
2:G:2175:GLU:HG3	2:G:2228:MET:HE2	1.93	0.49
2:G:2692:ASP:H	2:G:2696:TYR:HE2	1.60	0.49
2:G:3103:ILE:HA	2:G:3106:MET:SD	2.52	0.49
2:G:3354:LEU:O	2:G:3359:ILE:HG12	2.12	0.49
2:G:4980:LEU:O	2:G:4984:ASN:ND2	2.46	0.49
2:B:2419:GLY:O	2:B:2423:MET:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4112:LEU:O	2:B:4115:SER:OG	2.29	0.49
2:I:155:LYS:O	2:I:158:SER:OG	2.30	0.49
2:I:1110:ARG:NH2	2:I:1112:ASP:OD2	2.45	0.49
2:I:1980:LEU:HD13	2:I:1995:THR:HG22	1.95	0.49
2:I:3354:LEU:HD11	2:I:3434:LEU:HD22	1.94	0.49
2:I:3354:LEU:O	2:I:3359:ILE:HG12	2.12	0.49
2:I:3633:VAL:HA	2:I:3636:PHE:HB2	1.93	0.49
2:A:36:CYS:SG	2:A:65:CYS:HB3	2.52	0.49
2:A:927:GLU:HA	2:A:930:LYS:HD3	1.94	0.49
2:A:2175:GLU:HG3	2:A:2228:MET:HE2	1.94	0.49
2:A:2328:GLY:O	2:A:2332:LEU:HG	2.13	0.49
2:A:2336:ARG:O	2:A:2435:ARG:NH1	2.43	0.49
2:A:2770:LYS:HE2	2:A:2791:LEU:HD11	1.94	0.49
2:A:3984:ARG:O	2:A:3984:ARG:HG3	2.12	0.49
2:G:183:SER:HB2	2:G:190:GLN:HB2	1.93	0.49
2:G:1926:LEU:O	2:G:1929:MET:HG2	2.12	0.49
2:G:3465:ASN:OD1	2:G:3468:SER:N	2.46	0.49
2:G:4675:LYS:HA	2:G:4715:TYR:CD2	2.48	0.49
2:B:356:TRP:N	2:B:379:HIS:O	2.45	0.49
2:B:697:GLY:C	2:B:1636:MET:HE1	2.38	0.49
2:B:4980:LEU:O	2:B:4984:ASN:ND2	2.46	0.49
2:B:5017:ARG:HD2	2:B:5019:TRP:CZ2	2.48	0.49
2:I:1987:SER:OG	2:I:1990:GLU:HB2	2.12	0.49
2:A:826:ILE:HG22	2:A:827:LYS:HG2	1.95	0.49
2:A:2026:ASP:OD1	2:A:2026:ASP:N	2.43	0.49
2:A:2692:ASP:H	2:A:2696:TYR:HE2	1.60	0.49
2:A:4227:GLU:O	2:A:4231:MET:HB2	2.13	0.49
2:A:4674:GLU:OE2	2:A:4715:TYR:N	2.28	0.49
2:G:826:ILE:HG22	2:G:827:LYS:HG2	1.95	0.49
2:G:3019:SER:O	2:G:3036:LYS:NZ	2.42	0.49
2:G:3334:TRP:CH2	2:G:3335:MET:HE2	2.48	0.49
2:G:4983:HIS:HB2	3:G:5301:ATP:N6	2.10	0.49
2:B:650:VAL:HG11	2:B:662:TRP:CE2	2.47	0.49
2:B:875:ALA:HA	2:B:878:ILE:HG12	1.94	0.49
2:B:1154:ASP:O	2:B:1158:ASN:N	2.46	0.49
2:B:3511:VAL:O	2:B:3515:LYS:HG2	2.13	0.49
2:I:697:GLY:C	2:I:1636:MET:HE1	2.38	0.49
2:I:1154:ASP:O	2:I:1158:ASN:N	2.46	0.49
2:I:2434:GLY:O	2:I:2508:ARG:NE	2.45	0.49
2:I:3103:ILE:HA	2:I:3106:MET:SD	2.52	0.49
2:I:3511:VAL:O	2:I:3515:LYS:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4227:GLU:O	2:I:4231:MET:HB2	2.13	0.49
2:I:4813:LEU:O	2:I:4816:ILE:HG22	2.12	0.49
2:A:210:GLU:OE1	2:A:210:GLU:N	2.43	0.49
2:A:1110:ARG:NH2	2:A:1112:ASP:OD2	2.45	0.49
2:A:1448:VAL:HG12	2:A:1554:VAL:HG23	1.94	0.49
2:A:3033:ASN:O	2:A:3037:GLU:HG2	2.12	0.49
2:A:3267:PRO:HB2	2:A:3270:ILE:CG1	2.41	0.49
2:A:3511:VAL:O	2:A:3515:LYS:HG2	2.13	0.49
2:A:4830:VAL:HA	2:A:4936:ILE:HD12	1.94	0.49
2:A:4976:GLU:O	2:A:4980:LEU:N	2.41	0.49
2:A:4980:LEU:O	2:A:4984:ASN:ND2	2.46	0.49
2:G:1297:PHE:CE2	2:G:1525:GLY:HA2	2.48	0.49
2:G:2755:ILE:HG22	2:G:2806:ARG:HG2	1.95	0.49
2:G:3111:ARG:HH12	2:G:3175:LEU:HD13	1.76	0.49
2:G:4227:GLU:O	2:G:4231:MET:HB2	2.13	0.49
2:B:650:VAL:HG21	2:B:662:TRP:CD1	2.47	0.49
2:B:1870:VAL:HG11	2:B:2091:PRO:HB2	1.94	0.49
2:B:3564:GLU:OE1	2:B:3570:ARG:NH1	2.45	0.49
2:I:449:ILE:HG12	2:I:524:GLU:OE1	2.12	0.49
2:I:3564:GLU:OE1	2:I:3570:ARG:NH1	2.45	0.49
2:I:4097:MET:HE3	2:I:4103:PHE:CD2	2.47	0.49
2:I:4966:ASP:OD1	2:I:4966:ASP:N	2.46	0.49
2:A:13:PHE:HA	2:A:163:VAL:O	2.12	0.49
2:A:709:ASP:OD1	2:A:725:HIS:ND1	2.31	0.49
2:A:2498:HIS:O	2:A:2501:SER:OG	2.28	0.49
2:A:2530:MET:HE1	2:A:2554:LEU:HB2	1.95	0.49
2:A:3242:ASP:OD1	2:A:3243:ILE:N	2.46	0.49
2:A:4237:PHE:CE1	2:A:4668:LEU:HD11	2.47	0.49
2:A:4242:ILE:O	2:A:4246:GLN:HG3	2.13	0.49
2:A:4675:LYS:HA	2:A:4715:TYR:CD2	2.48	0.49
2:G:1154:ASP:O	2:G:1158:ASN:N	2.46	0.49
2:G:2828:GLU:OE1	2:G:2828:GLU:N	2.43	0.49
2:G:4056:GLU:O	2:G:4060:LYS:HG2	2.13	0.49
2:G:4966:ASP:OD1	2:G:4966:ASP:N	2.46	0.49
2:G:5017:ARG:HD2	2:G:5019:TRP:CZ2	2.47	0.49
2:B:155:LYS:O	2:B:158:SER:OG	2.29	0.49
2:B:1248:VAL:HG21	2:B:1257:VAL:HG21	1.95	0.49
2:B:2328:GLY:O	2:B:2332:LEU:HG	2.13	0.49
2:B:4056:GLU:O	2:B:4060:LYS:HG2	2.13	0.49
2:B:4675:LYS:HA	2:B:4715:TYR:CD2	2.48	0.49
2:I:192:ASP:OD1	2:I:192:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:826:ILE:HG22	2:I:827:LYS:HG2	1.95	0.49
2:I:1248:VAL:HG21	2:I:1257:VAL:HG21	1.95	0.49
2:I:1454:THR:OG1	2:I:1456:ASP:OD2	2.24	0.49
2:I:1820:ARG:O	2:I:1823:GLY:N	2.46	0.49
2:I:2336:ARG:O	2:I:2435:ARG:NH1	2.43	0.49
2:I:3033:ASN:O	2:I:3037:GLU:HG2	2.12	0.49
2:A:660:GLY:HA2	2:A:750:LEU:HD11	1.94	0.49
2:A:870:ILE:HD11	2:A:1049:TYR:CE2	2.48	0.49
2:A:1974:ARG:HB2	2:A:3642:TYR:CE2	2.46	0.49
2:A:2309:SER:HA	2:A:2324:ASN:HB2	1.95	0.49
2:A:2638:LYS:HZ1	2:A:2694:GLU:HB2	1.77	0.49
2:A:3227:ARG:NH2	2:A:3232:LEU:O	2.46	0.49
2:A:4056:GLU:O	2:A:4060:LYS:HG2	2.13	0.49
2:G:13:PHE:HA	2:G:163:VAL:O	2.12	0.49
2:G:1008:SER:N	2:G:1018:ASN:O	2.45	0.49
2:G:1820:ARG:O	2:G:1823:GLY:N	2.46	0.49
2:G:2026:ASP:N	2:G:2026:ASP:OD1	2.43	0.49
2:G:2348:GLU:HG2	2:G:3849:ARG:HG3	1.94	0.49
2:G:2626:LEU:O	2:G:2630:VAL:HG22	2.13	0.49
2:G:3934:TYR:HB2	2:G:3999:MET:HE2	1.94	0.49
2:G:4237:PHE:CE1	2:G:4668:LEU:HD11	2.47	0.49
2:G:4813:LEU:O	2:G:4816:ILE:HG22	2.12	0.49
2:B:981:GLN:O	2:B:985:VAL:HG23	2.12	0.49
2:B:1110:ARG:NH2	2:B:1112:ASP:OD2	2.45	0.49
2:B:1820:ARG:O	2:B:1823:GLY:N	2.46	0.49
2:B:3233:PRO:HG2	2:B:3239:MET:HB2	1.94	0.49
2:B:3354:LEU:O	2:B:3359:ILE:HG12	2.12	0.49
2:B:3432:GLU:OE2	2:B:3436:ARG:NH2	2.46	0.49
2:B:4087:LEU:O	2:B:4122:MET:HE3	2.12	0.49
2:B:4996:ILE:HD11	6:B:5304:CFF:H102	1.95	0.49
2:I:232:THR:OG1	2:I:248:GLU:OE2	2.30	0.49
2:I:277:GLY:HA3	2:I:327:PRO:HD3	1.94	0.49
2:I:870:ILE:HD11	2:I:1049:TYR:CE2	2.48	0.49
2:I:1156:THR:OG1	2:I:1157:GLU:OE1	2.20	0.49
2:I:1547:LYS:NZ	2:I:1642:PRO:O	2.46	0.49
2:I:2309:SER:HA	2:I:2324:ASN:HB2	1.95	0.49
2:I:2620:GLN:O	2:I:2624:ARG:N	2.37	0.49
2:I:2687:ALA:HB1	2:I:2966:TRP:CZ2	2.46	0.49
2:I:4021:LYS:HG3	2:I:4142:ASN:ND2	2.28	0.49
2:I:4980:LEU:O	2:I:4984:ASN:ND2	2.46	0.49
2:I:4996:ILE:HD11	6:I:5304:CFF:H102	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2348:GLU:HG2	2:A:3849:ARG:HG3	1.94	0.49
2:A:2755:ILE:HG22	2:A:2806:ARG:HG2	1.95	0.49
2:A:3065:VAL:O	2:A:3068:LEU:HB2	2.13	0.49
2:A:3633:VAL:HA	2:A:3636:PHE:HB2	1.93	0.49
2:A:4214:LYS:HD3	2:A:4234:PHE:HZ	1.78	0.49
2:A:5017:ARG:HD2	2:A:5019:TRP:CZ2	2.48	0.49
2:G:875:ALA:HA	2:G:878:ILE:HG12	1.94	0.49
2:G:2170:MET:HB2	2:G:2170:MET:HE3	1.66	0.49
2:G:2954:ARG:O	2:G:2957:PHE:HB3	2.13	0.49
2:G:3984:ARG:HG3	2:G:3984:ARG:O	2.12	0.49
2:G:4112:LEU:O	2:G:4115:SER:OG	2.29	0.49
2:B:206:CYS:SG	2:B:207:SER:N	2.86	0.49
2:B:2674:LEU:HA	2:B:2677:LYS:HZ1	1.78	0.49
2:B:2792:ARG:HE	2:B:2797:PHE:HA	1.77	0.49
2:B:3227:ARG:NH2	2:B:3232:LEU:O	2.46	0.49
2:B:4674:GLU:OE2	2:B:4715:TYR:N	2.28	0.49
2:B:4892:ARG:NH1	2:I:4895:GLY:O	2.41	0.49
2:I:36:CYS:SG	2:I:65:CYS:HB3	2.52	0.49
2:I:1926:LEU:O	2:I:1929:MET:HG2	2.11	0.49
2:I:1991:THR:O	2:I:1995:THR:HG23	2.12	0.49
2:I:2438:PRO:HG2	2:I:2443:ILE:HD11	1.94	0.49
2:I:2954:ARG:O	2:I:2957:PHE:HB3	2.13	0.49
2:I:3190:LEU:HD21	2:I:3272:ILE:HG23	1.95	0.49
2:I:3233:PRO:HG2	2:I:3239:MET:HB2	1.95	0.49
2:I:4960:ILE:HD11	2:I:4985:LEU:HD23	1.94	0.49
2:A:1561:VAL:HG23	2:A:1562:ILE:N	2.29	0.48
2:A:2384:ILE:HA	2:A:2494:PHE:CE1	2.48	0.48
2:A:2767:ALA:O	2:A:2771:ILE:HG12	2.13	0.48
2:A:4021:LYS:HG3	2:A:4142:ASN:ND2	2.28	0.48
2:G:1980:LEU:HD13	2:G:1995:THR:HG22	1.95	0.48
2:G:2640:PRO:O	2:G:2643:LEU:CB	2.58	0.48
2:G:4960:ILE:HD11	2:G:4985:LEU:HD23	1.94	0.48
2:B:1827:ARG:O	2:B:1829:PRO:HD3	2.13	0.48
2:B:2031:LEU:HD11	2:B:3657:TYR:CE1	2.47	0.48
2:B:2384:ILE:HA	2:B:2494:PHE:CE1	2.48	0.48
2:B:2434:GLY:O	2:B:2508:ARG:NE	2.45	0.48
2:B:3465:ASN:OD1	2:B:3468:SER:N	2.46	0.48
2:I:650:VAL:HG21	2:I:662:TRP:CD1	2.47	0.48
2:I:650:VAL:HG11	2:I:662:TRP:CE2	2.47	0.48
2:I:1008:SER:N	2:I:1018:ASN:O	2.45	0.48
2:I:2498:HIS:O	2:I:2501:SER:OG	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2500:ALA:HB2	2:A:2553:TYR:HD1	1.78	0.48
2:A:3053:ARG:CG	2:A:3056:LEU:HD21	2.43	0.48
2:A:3180:ASN:O	2:A:3183:VAL:HG22	2.13	0.48
2:A:3528:THR:OG1	2:A:3561:GLY:N	2.46	0.48
2:A:4849:TYR:CE1	2:G:4578:LEU:HD13	2.46	0.48
2:A:4966:ASP:OD1	2:A:4966:ASP:N	2.46	0.48
1:O:82:TYR:CE1	1:O:87:HIS:HB2	2.47	0.48
2:G:650:VAL:HG11	2:G:662:TRP:CE2	2.47	0.48
2:G:2767:ALA:O	2:G:2771:ILE:HG12	2.13	0.48
2:G:2916:LYS:HD2	2:G:2920:ARG:NH2	2.27	0.48
2:G:3511:VAL:O	2:G:3515:LYS:HG2	2.13	0.48
2:G:3528:THR:OG1	2:G:3561:GLY:N	2.46	0.48
2:B:927:GLU:HA	2:B:930:LYS:HD3	1.94	0.48
2:B:1987:SER:OG	2:B:1990:GLU:HB2	2.12	0.48
2:B:2626:LEU:O	2:B:2630:VAL:HG22	2.13	0.48
2:B:3077:ALA:HB3	2:B:3156:VAL:HG12	1.95	0.48
2:B:3242:ASP:OD1	2:B:3243:ILE:N	2.46	0.48
2:I:875:ALA:HA	2:I:878:ILE:HG12	1.94	0.48
2:I:1131:ARG:HB3	2:I:1139:PHE:CD1	2.48	0.48
2:I:1448:VAL:HG12	2:I:1554:VAL:HG23	1.94	0.48
2:I:2687:ALA:HB1	2:I:2966:TRP:CH2	2.48	0.48
2:I:2755:ILE:HG22	2:I:2806:ARG:HG2	1.95	0.48
2:I:3065:VAL:O	2:I:3068:LEU:HB2	2.13	0.48
2:I:3242:ASP:OD1	2:I:3243:ILE:N	2.46	0.48
2:I:5017:ARG:HD2	2:I:5019:TRP:CZ2	2.48	0.48
2:A:183:SER:HB2	2:A:190:GLN:HB2	1.93	0.48
2:A:206:CYS:SG	2:A:207:SER:N	2.86	0.48
2:A:1255:TYR:CD1	2:A:1287:LEU:HD22	2.49	0.48
2:A:2626:LEU:O	2:A:2630:VAL:HG22	2.13	0.48
2:A:2954:ARG:O	2:A:2957:PHE:HB3	2.13	0.48
2:A:4222:VAL:HG21	2:A:4950:VAL:HG13	1.95	0.48
2:G:880:GLU:OE2	2:G:910:PHE:HB3	2.12	0.48
2:G:927:GLU:HA	2:G:930:LYS:HD3	1.94	0.48
2:G:2384:ILE:HA	2:G:2494:PHE:CE1	2.48	0.48
2:G:2434:GLY:O	2:G:2508:ARG:NE	2.45	0.48
2:G:2736:ASP:OD2	2:G:2738:ARG:NH2	2.46	0.48
2:G:3227:ARG:NH2	2:G:3232:LEU:O	2.46	0.48
2:G:3242:ASP:OD1	2:G:3243:ILE:N	2.46	0.48
2:G:3316:LEU:HD13	2:G:3345:ILE:HG23	1.96	0.48
2:G:3943:ILE:HG23	2:G:3948:LYS:HG3	1.96	0.48
2:G:4021:LYS:HG3	2:G:4142:ASN:ND2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4951:LYS:HD2	2:G:4954:MET:HE3	1.95	0.48
2:B:2954:ARG:O	2:B:2957:PHE:HB3	2.13	0.48
2:B:3033:ASN:O	2:B:3037:GLU:HG2	2.12	0.48
2:B:3172:ILE:HG21	2:B:3194:LEU:HD13	1.95	0.48
2:B:3334:TRP:CH2	2:B:3335:MET:HE2	2.48	0.48
2:B:4021:LYS:HG3	2:B:4142:ASN:ND2	2.28	0.48
2:I:2792:ARG:HE	2:I:2797:PHE:HA	1.77	0.48
2:I:3009:TYR:HD2	2:I:3010:PHE:CD1	2.32	0.48
2:I:3334:TRP:CH2	2:I:3335:MET:HE2	2.48	0.48
2:I:3528:THR:OG1	2:I:3561:GLY:N	2.46	0.48
2:I:3943:ILE:HG23	2:I:3948:LYS:HG3	1.95	0.48
2:I:3998:HIS:O	2:I:3999:MET:C	2.57	0.48
2:I:4222:VAL:HG21	2:I:4950:VAL:HG13	1.95	0.48
2:I:4675:LYS:HA	2:I:4715:TYR:CD2	2.48	0.48
2:A:1297:PHE:CE2	2:A:1525:GLY:HA2	2.48	0.48
2:A:1827:ARG:O	2:A:1829:PRO:HD3	2.13	0.48
2:A:2916:LYS:HD2	2:A:2920:ARG:NH2	2.27	0.48
2:A:2916:LYS:HD2	2:A:2920:ARG:HH21	1.78	0.48
2:A:3077:ALA:HB3	2:A:3156:VAL:HG12	1.95	0.48
2:A:3172:ILE:HG21	2:A:3194:LEU:HD13	1.95	0.48
2:A:3334:TRP:O	2:A:3338:LEU:HB2	2.14	0.48
2:A:4087:LEU:O	2:A:4122:MET:HE3	2.12	0.48
1:O:10:GLY:HA3	1:O:70:GLN:HB2	1.94	0.48
2:G:1547:LYS:NZ	2:G:1642:PRO:O	2.46	0.48
2:G:1815:LEU:HG	2:G:1865:MET:SD	2.52	0.48
2:G:3416:VAL:HG22	2:G:3423:TRP:HZ3	1.77	0.48
2:G:4183:ILE:HD11	2:G:5021:PHE:HB2	1.96	0.48
2:B:826:ILE:HG22	2:B:827:LYS:HG2	1.95	0.48
2:B:1547:LYS:NZ	2:B:1642:PRO:O	2.46	0.48
2:B:3053:ARG:CG	2:B:3056:LEU:HD21	2.43	0.48
2:B:3180:ASN:O	2:B:3183:VAL:HG22	2.13	0.48
2:B:3528:THR:OG1	2:B:3561:GLY:N	2.46	0.48
2:B:3633:VAL:HA	2:B:3636:PHE:HB2	1.93	0.48
2:B:4960:ILE:HD11	2:B:4985:LEU:HD23	1.94	0.48
2:I:2635:GLU:OE1	2:I:2635:GLU:N	2.32	0.48
2:I:2977:LEU:O	2:I:2981:VAL:HG23	2.14	0.48
2:I:4058:ILE:HA	2:I:4061:PHE:CE1	2.48	0.48
2:A:697:GLY:C	2:A:1636:MET:HE1	2.38	0.48
2:A:880:GLU:OE2	2:A:910:PHE:HB3	2.12	0.48
2:A:1131:ARG:HB3	2:A:1139:PHE:CD1	2.48	0.48
2:A:2005:GLN:O	2:A:2009:LEU:HD23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3269:VAL:O	2:A:3272:ILE:N	2.47	0.48
2:A:3432:GLU:OE2	2:A:3436:ARG:NH2	2.46	0.48
2:A:3845:ASN:HA	2:A:3848:GLU:OE1	2.14	0.48
2:A:4686:LEU:HG	2:A:4687:TYR:CD2	2.49	0.48
1:J:82:TYR:CE1	1:J:87:HIS:HB2	2.47	0.48
2:G:277:GLY:HA3	2:G:327:PRO:HD3	1.94	0.48
2:G:2438:PRO:HG2	2:G:2443:ILE:HD11	1.94	0.48
2:G:3190:LEU:HD21	2:G:3272:ILE:HG23	1.95	0.48
2:G:3334:TRP:O	2:G:3338:LEU:HB2	2.13	0.48
2:G:4242:ILE:O	2:G:4246:GLN:HG3	2.13	0.48
2:G:4904:PRO:HB3	2:G:4913:ARG:HD2	1.96	0.48
2:B:1297:PHE:CE2	2:B:1525:GLY:HA2	2.48	0.48
2:B:1561:VAL:HG23	2:B:1562:ILE:N	2.29	0.48
2:B:2640:PRO:O	2:B:2643:LEU:CB	2.58	0.48
2:B:2687:ALA:HB1	2:B:2966:TRP:CH2	2.48	0.48
2:B:3009:TYR:HD2	2:B:3010:PHE:CD1	2.32	0.48
2:B:3363:GLY:O	2:B:3367:LYS:HG2	2.14	0.48
2:B:4738:ALA:O	2:B:4743:MET:HB2	2.14	0.48
2:I:921:ASN:HA	2:I:924:MET:HE2	1.95	0.48
2:I:2463:LEU:HA	2:I:2510:TYR:CE2	2.49	0.48
2:I:3432:GLU:OE2	2:I:3436:ARG:NH2	2.46	0.48
2:I:4056:GLU:O	2:I:4060:LYS:HG2	2.13	0.48
2:A:103:TYR:CD1	2:A:163:VAL:HG12	2.49	0.48
2:A:1820:ARG:O	2:A:1823:GLY:N	2.46	0.48
2:A:2463:LEU:HA	2:A:2510:TYR:CE2	2.49	0.48
2:A:2736:ASP:OD2	2:A:2738:ARG:NH2	2.46	0.48
2:A:2776:SER:OG	2:A:2777:TYR:N	2.47	0.48
2:A:3984:ARG:NH1	2:A:3986:TRP:HB2	2.29	0.48
1:J:10:GLY:HA3	1:J:70:GLN:HB2	1.95	0.48
2:G:1248:VAL:HG21	2:G:1257:VAL:HG21	1.95	0.48
2:G:1255:TYR:CD1	2:G:1287:LEU:HD22	2.48	0.48
2:G:2498:HIS:O	2:G:2501:SER:OG	2.28	0.48
2:G:2792:ARG:HE	2:G:2797:PHE:HA	1.77	0.48
2:G:2967:MET:CE	2:G:3045:LYS:HB3	2.43	0.48
2:G:3363:GLY:O	2:G:3367:LYS:HG2	2.14	0.48
2:B:103:TYR:CD1	2:B:163:VAL:HG12	2.49	0.48
2:B:1008:SER:N	2:B:1018:ASN:O	2.45	0.48
2:B:1454:THR:OG1	2:B:1456:ASP:OD2	2.24	0.48
2:B:2530:MET:HE1	2:B:2554:LEU:HB2	1.95	0.48
2:B:2755:ILE:HG22	2:B:2806:ARG:HG2	1.95	0.48
2:B:2967:MET:CE	2:B:3045:LYS:HB3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3269:VAL:O	2:B:3272:ILE:N	2.47	0.48
2:I:959:TYR:CD2	2:I:960:MET:N	2.80	0.48
2:I:981:GLN:O	2:I:985:VAL:HG23	2.12	0.48
2:I:3156:VAL:HG23	2:I:3157:ILE:HD12	1.96	0.48
2:I:3172:ILE:HG21	2:I:3194:LEU:HD13	1.95	0.48
2:I:4088:ILE:HG23	2:I:4093:PHE:HB2	1.95	0.48
2:I:4183:ILE:HD11	2:I:5021:PHE:HB2	1.96	0.48
2:I:4686:LEU:HG	2:I:4687:TYR:CD2	2.49	0.48
2:I:4951:LYS:HD2	2:I:4954:MET:HE3	1.95	0.48
2:A:126:SER:C	2:A:127:MET:HE2	2.39	0.48
2:A:1248:VAL:HG22	2:A:1599:MET:CE	2.42	0.48
2:A:4960:ILE:HD11	2:A:4985:LEU:HD23	1.94	0.48
1:H:10:GLY:HA3	1:H:70:GLN:HB2	1.95	0.48
2:G:981:GLN:O	2:G:985:VAL:HG23	2.12	0.48
2:G:1720:LEU:HD22	2:G:1851:MET:SD	2.54	0.48
2:G:2463:LEU:HA	2:G:2510:TYR:CE2	2.49	0.48
2:G:3172:ILE:HG21	2:G:3194:LEU:HD13	1.95	0.48
2:G:4996:ILE:HD11	6:G:5304:CFF:H102	1.94	0.48
2:B:921:ASN:HA	2:B:924:MET:HE2	1.95	0.48
2:B:2005:GLN:O	2:B:2009:LEU:HD23	2.13	0.48
2:B:2277:ALA:HB1	2:B:2337:PHE:HD2	1.79	0.48
2:B:4214:LYS:HD3	2:B:4234:PHE:HZ	1.78	0.48
2:B:4217:PHE:CZ	2:B:4234:PHE:HB2	2.49	0.48
2:I:1297:PHE:CE2	2:I:1525:GLY:HA2	2.48	0.48
2:I:1561:VAL:HG23	2:I:1562:ILE:N	2.28	0.48
2:I:1827:ARG:O	2:I:1829:PRO:HD3	2.13	0.48
2:I:2530:MET:HE1	2:I:2554:LEU:HB2	1.95	0.48
2:I:2578:MET:O	2:I:2581:SER:OG	2.22	0.48
2:I:2626:LEU:O	2:I:2630:VAL:HG22	2.13	0.48
2:I:3132:THR:HG23	2:I:3136:LEU:HD13	1.96	0.48
2:I:3227:ARG:NH2	2:I:3232:LEU:O	2.46	0.48
2:I:4018:ASP:OD1	2:I:4019:LEU:N	2.47	0.48
2:I:4217:PHE:CZ	2:I:4234:PHE:HB2	2.49	0.48
2:A:1154:ASP:O	2:A:1158:ASN:N	2.46	0.48
2:A:1248:VAL:HG21	2:A:1257:VAL:HG21	1.95	0.48
2:A:1821:ASP:OD1	2:A:1822:GLY:N	2.47	0.48
2:A:2792:ARG:HE	2:A:2797:PHE:HA	1.77	0.48
2:A:3233:PRO:HG2	2:A:3239:MET:HB2	1.94	0.48
2:A:3363:GLY:O	2:A:3367:LYS:HG2	2.14	0.48
2:A:3564:GLU:OE1	2:A:3570:ARG:NH1	2.45	0.48
2:A:4018:ASP:OD1	2:A:4019:LEU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4058:ILE:HA	2:A:4061:PHE:CE1	2.49	0.48
2:A:4217:PHE:CZ	2:A:4234:PHE:HB2	2.49	0.48
2:A:4951:LYS:HD2	2:A:4954:MET:HE3	1.95	0.48
2:G:543:ASN:O	2:G:546:TRP:HB3	2.14	0.48
2:G:1827:ARG:O	2:G:1829:PRO:HD3	2.13	0.48
2:G:2328:GLY:O	2:G:2332:LEU:HG	2.13	0.48
2:G:2977:LEU:O	2:G:2981:VAL:HG23	2.14	0.48
2:G:3009:TYR:HD2	2:G:3010:PHE:CD1	2.32	0.48
2:G:3132:THR:HG23	2:G:3136:LEU:HD13	1.96	0.48
2:G:3352:GLU:OE1	2:G:3352:GLU:N	2.41	0.48
2:G:4018:ASP:OD1	2:G:4019:LEU:N	2.47	0.48
2:B:232:THR:OG1	2:B:248:GLU:OE2	2.30	0.48
2:B:472:ARG:NH2	2:B:532:GLY:HA3	2.29	0.48
2:B:1255:TYR:CD1	2:B:1287:LEU:HD22	2.49	0.48
2:B:1980:LEU:HD13	2:B:1995:THR:HG22	1.95	0.48
2:B:2438:PRO:HG2	2:B:2443:ILE:HD11	1.94	0.48
2:B:2500:ALA:HB2	2:B:2553:TYR:HD1	1.79	0.48
2:B:2767:ALA:O	2:B:2771:ILE:HG12	2.13	0.48
2:B:3943:ILE:HG23	2:B:3948:LYS:HG3	1.96	0.48
2:B:4222:VAL:HG21	2:B:4950:VAL:HG13	1.95	0.48
2:B:4686:LEU:HG	2:B:4687:TYR:CD2	2.49	0.48
2:I:126:SER:C	2:I:127:MET:HE2	2.39	0.48
2:I:1182:ILE:HG13	2:I:1182:ILE:O	2.14	0.48
2:I:2277:ALA:HB1	2:I:2337:PHE:HD2	1.79	0.48
2:I:2538:THR:O	2:I:2542:SER:OG	2.27	0.48
2:I:4904:PRO:HB3	2:I:4913:ARG:HD2	1.96	0.48
2:A:921:ASN:HA	2:A:924:MET:HE2	1.95	0.48
2:A:1182:ILE:HG13	2:A:1182:ILE:O	2.14	0.48
2:A:4675:LYS:HA	2:A:4715:TYR:HD2	1.79	0.48
2:G:1870:VAL:HG11	2:G:2091:PRO:HB2	1.94	0.48
2:G:2340:PHE:HB2	2:G:2435:ARG:HB3	1.96	0.48
2:G:2419:GLY:O	2:G:2423:MET:N	2.28	0.48
2:G:3053:ARG:CG	2:G:3056:LEU:HD21	2.44	0.48
2:G:3233:PRO:HG2	2:G:3239:MET:HB2	1.94	0.48
2:G:4217:PHE:CZ	2:G:4234:PHE:HB2	2.49	0.48
2:G:4895:GLY:O	2:I:4892:ARG:NH1	2.43	0.48
2:B:1131:ARG:HB3	2:B:1139:PHE:CD1	2.48	0.48
2:B:1448:VAL:HG12	2:B:1554:VAL:HG23	1.94	0.48
2:B:2463:LEU:HA	2:B:2510:TYR:CE2	2.49	0.48
2:B:3065:VAL:O	2:B:3068:LEU:HB2	2.13	0.48
2:B:4675:LYS:HA	2:B:4715:TYR:HD2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1272:LEU:HD22	2:I:1289:LEU:HD11	1.96	0.48
2:I:2384:ILE:HA	2:I:2494:PHE:CE1	2.48	0.48
2:I:2736:ASP:OD2	2:I:2738:ARG:NH2	2.47	0.48
2:I:3334:TRP:O	2:I:3338:LEU:HB2	2.14	0.48
2:I:3363:GLY:O	2:I:3367:LYS:HG2	2.14	0.48
2:I:3845:ASN:HA	2:I:3848:GLU:OE1	2.14	0.48
2:I:3873:LYS:HD2	2:I:3953:LYS:HE3	1.96	0.48
2:I:4738:ALA:O	2:I:4743:MET:HB2	2.14	0.48
2:A:1053:ILE:HD12	2:A:1053:ILE:H	1.79	0.48
2:A:3943:ILE:HG23	2:A:3948:LYS:HG3	1.95	0.48
2:A:4996:ILE:HD11	6:A:5304:CFF:H102	1.95	0.48
2:G:126:SER:C	2:G:127:MET:HE2	2.39	0.48
2:G:1053:ILE:HD12	2:G:1053:ILE:H	1.79	0.48
2:G:1821:ASP:OD1	2:G:1822:GLY:N	2.47	0.48
2:G:2500:ALA:HB2	2:G:2553:TYR:HD1	1.78	0.48
2:G:3156:VAL:HG23	2:G:3157:ILE:HD12	1.96	0.48
2:G:3180:ASN:O	2:G:3183:VAL:HG22	2.13	0.48
2:G:3998:HIS:O	2:G:3999:MET:C	2.57	0.48
2:G:4157:ASP:HB3	2:G:4160:LEU:HD12	1.95	0.48
2:B:277:GLY:HA3	2:B:327:PRO:HD3	1.94	0.48
2:B:990:GLU:HG2	2:B:1024:TYR:CG	2.49	0.48
2:B:1272:LEU:HD22	2:B:1289:LEU:HD11	1.96	0.48
2:B:2647:HIS:O	2:B:2651:CYS:N	2.34	0.48
2:B:2916:LYS:HD2	2:B:2920:ARG:HH21	1.78	0.48
2:B:2977:LEU:O	2:B:2981:VAL:HG23	2.14	0.48
2:B:3358:PHE:CE2	2:B:3412:LEU:HD13	2.49	0.48
2:B:4018:ASP:OD1	2:B:4019:LEU:N	2.47	0.48
2:B:4227:GLU:O	2:B:4231:MET:HB2	2.13	0.48
2:B:4904:PRO:HB3	2:B:4913:ARG:HD2	1.96	0.48
2:I:103:TYR:CD1	2:I:163:VAL:HG12	2.49	0.48
2:I:206:CYS:SG	2:I:207:SER:N	2.86	0.48
2:I:214:VAL:HG22	2:I:341:TYR:CE2	2.49	0.48
2:I:990:GLU:HG2	2:I:1024:TYR:CG	2.49	0.48
2:I:1821:ASP:OD1	2:I:1822:GLY:N	2.47	0.48
2:I:2500:ALA:HB2	2:I:2553:TYR:HD1	1.79	0.48
2:I:2640:PRO:O	2:I:2643:LEU:CB	2.58	0.48
2:I:2767:ALA:O	2:I:2771:ILE:HG12	2.13	0.48
2:I:3358:PHE:CE2	2:I:3412:LEU:HD13	2.49	0.48
2:I:3416:VAL:HG22	2:I:3423:TRP:HZ3	1.77	0.48
2:I:4675:LYS:HA	2:I:4715:TYR:HD2	1.79	0.48
2:A:1132:TRP:CZ2	2:A:1136:SER:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1547:LYS:NZ	2:A:1642:PRO:O	2.46	0.47
2:A:1980:LEU:HD13	2:A:1995:THR:HG22	1.95	0.47
2:A:3009:TYR:HD2	2:A:3010:PHE:CD1	2.32	0.47
2:A:4904:PRO:HB3	2:A:4913:ARG:HD2	1.96	0.47
2:G:103:TYR:CD1	2:G:163:VAL:HG12	2.49	0.47
2:G:1733:GLU:HG2	2:G:2201:LEU:HD23	1.96	0.47
2:G:2005:GLN:O	2:G:2009:LEU:HD23	2.13	0.47
2:G:3432:GLU:OE2	2:G:3436:ARG:NH2	2.46	0.47
2:G:4686:LEU:HG	2:G:4687:TYR:CD2	2.49	0.47
2:B:126:SER:C	2:B:127:MET:HE2	2.39	0.47
2:B:1720:LEU:HD22	2:B:1851:MET:SD	2.54	0.47
2:B:3334:TRP:O	2:B:3338:LEU:HB2	2.14	0.47
2:B:3845:ASN:HA	2:B:3848:GLU:OE1	2.14	0.47
2:B:4058:ILE:HA	2:B:4061:PHE:CE1	2.49	0.47
2:B:4966:ASP:OD1	2:B:4966:ASP:N	2.46	0.47
2:I:927:GLU:HA	2:I:930:LYS:HD3	1.94	0.47
2:I:1255:TYR:CD1	2:I:1287:LEU:HD22	2.48	0.47
2:I:1436:SER:HG	2:I:1516:ILE:C	2.20	0.47
2:I:2328:GLY:O	2:I:2332:LEU:HG	2.13	0.47
2:I:3316:LEU:HD13	2:I:3345:ILE:HG23	1.96	0.47
2:I:3533:ILE:HG12	2:I:3596:VAL:HG23	1.96	0.47
2:A:309:THR:O	2:A:313:SER:OG	2.29	0.47
2:A:2340:PHE:HB2	2:A:2435:ARG:HB3	1.96	0.47
2:A:2967:MET:CE	2:A:3045:LYS:HB3	2.43	0.47
2:A:3316:LEU:HD13	2:A:3345:ILE:HG23	1.96	0.47
2:A:4183:ILE:HD11	2:A:5021:PHE:HB2	1.96	0.47
2:G:192:ASP:OD1	2:G:192:ASP:N	2.45	0.47
2:G:1272:LEU:HD22	2:G:1289:LEU:HD11	1.96	0.47
2:G:1561:VAL:HG23	2:G:1562:ILE:N	2.29	0.47
2:G:3845:ASN:HA	2:G:3848:GLU:OE1	2.14	0.47
2:G:4235:VAL:HG12	2:G:4992:LEU:HD13	1.97	0.47
2:G:4738:ALA:O	2:G:4743:MET:HB2	2.14	0.47
2:B:457:GLU:OE2	2:B:464:LYS:NZ	2.47	0.47
2:B:1132:TRP:CZ2	2:B:1136:SER:HB3	2.49	0.47
2:B:1821:ASP:OD1	2:B:1822:GLY:N	2.47	0.47
2:B:2336:ARG:O	2:B:2435:ARG:NH1	2.43	0.47
2:B:2340:PHE:HB2	2:B:2435:ARG:HB3	1.96	0.47
2:B:2750[B]:LYS:O	2:B:2935:TYR:OH	2.31	0.47
2:B:3934:TYR:HB2	2:B:3999:MET:HE2	1.94	0.47
2:B:4183:ILE:HD11	2:B:5021:PHE:HB2	1.96	0.47
2:B:4951:LYS:HD2	2:B:4954:MET:HE3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1076:ARG:NH1	2:I:1079:LYS:HG3	2.29	0.47
2:I:1771:LEU:HD22	2:I:2144:ILE:HD11	1.96	0.47
2:I:2032:GLN:O	2:I:2036:GLN:HG2	2.14	0.47
2:I:2115:GLU:OE1	2:I:2115:GLU:N	2.38	0.47
2:I:2916:LYS:HD2	2:I:2920:ARG:HH21	1.78	0.47
2:A:1720:LEU:HD22	2:A:1851:MET:SD	2.54	0.47
2:A:2620:GLN:N	2:A:2620:GLN:OE1	2.48	0.47
2:A:2980:VAL:HG13	2:A:2984:GLY:HA2	1.97	0.47
2:A:2992:GLU:O	2:A:2995:ILE:HB	2.15	0.47
2:A:3270:ILE:HG23	2:A:3274:LEU:HD13	1.95	0.47
2:A:3409:TYR:O	2:A:3413:ILE:HG12	2.14	0.47
2:A:3987:ASP:HA	2:A:3990:VAL:HB	1.96	0.47
2:A:4088:ILE:HG23	2:A:4093:PHE:HB2	1.95	0.47
2:A:4201:ASN:HB3	2:A:4993:MET:HE1	1.97	0.47
2:G:1076:ARG:NH1	2:G:1079:LYS:HG3	2.29	0.47
2:G:1131:ARG:HB3	2:G:1139:PHE:CD1	2.48	0.47
2:G:2530:MET:HE1	2:G:2554:LEU:HB2	1.95	0.47
2:G:3169:LEU:O	2:G:3172:ILE:HG22	2.14	0.47
2:G:3269:VAL:O	2:G:3272:ILE:N	2.47	0.47
2:G:3409:TYR:O	2:G:3413:ILE:HG12	2.14	0.47
2:G:4152:GLU:HG2	2:G:4192:ARG:HH11	1.79	0.47
2:G:4239:GLU:O	2:G:4242:ILE:HB	2.14	0.47
2:B:1442:GLY:O	2:B:1557:THR:OG1	2.30	0.47
2:B:2032:GLN:O	2:B:2036:GLN:HG2	2.14	0.47
2:B:3987:ASP:HA	2:B:3990:VAL:HB	1.97	0.47
2:B:4087:LEU:HB3	2:B:4122:MET:O	2.14	0.47
2:I:1132:TRP:CZ2	2:I:1136:SER:HB3	2.49	0.47
2:I:3053:ARG:CG	2:I:3056:LEU:HD21	2.43	0.47
2:I:3169:LEU:O	2:I:3172:ILE:HG22	2.14	0.47
2:I:3180:ASN:O	2:I:3183:VAL:HG22	2.13	0.47
2:I:4112:LEU:O	2:I:4115:SER:OG	2.29	0.47
2:A:2277:ALA:HB1	2:A:2337:PHE:HD2	1.79	0.47
2:A:3132:THR:HG23	2:A:3136:LEU:HD13	1.96	0.47
2:A:3358:PHE:CE2	2:A:3412:LEU:HD13	2.49	0.47
2:A:4235:VAL:HG12	2:A:4992:LEU:HD13	1.97	0.47
1:J:106:LEU:HD12	1:J:106:LEU:HA	1.72	0.47
2:G:1074:ILE:HG23	2:G:1115:LEU:HD11	1.97	0.47
2:G:1182:ILE:O	2:G:1182:ILE:HG13	2.14	0.47
2:G:2309:SER:HA	2:G:2324:ASN:HB2	1.95	0.47
2:G:2355:ARG:O	2:G:2359:ARG:HG2	2.14	0.47
2:G:2916:LYS:HD2	2:G:2920:ARG:HH21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2980:VAL:HG13	2:G:2984:GLY:HA2	1.97	0.47
2:G:4214:LYS:HD3	2:G:4234:PHE:HZ	1.78	0.47
2:G:4222:VAL:HG21	2:G:4950:VAL:HG13	1.95	0.47
2:B:1076:ARG:NH1	2:B:1079:LYS:HG3	2.29	0.47
2:B:1182:ILE:O	2:B:1182:ILE:HG13	2.14	0.47
2:B:2309:SER:HA	2:B:2324:ASN:HB2	1.95	0.47
2:B:2487:GLN:NE2	2:B:2545:GLU:OE2	2.44	0.47
2:B:3270:ILE:HG23	2:B:3274:LEU:HD13	1.95	0.47
2:B:3873:LYS:HD2	2:B:3953:LYS:HE3	1.96	0.47
2:B:4170:ILE:HG13	2:B:4171:LEU:N	2.30	0.47
2:B:4235:VAL:HG12	2:B:4992:LEU:HD13	1.96	0.47
2:I:457:GLU:OE2	2:I:464:LYS:NZ	2.47	0.47
2:I:928:THR:O	2:I:931:THR:OG1	2.30	0.47
2:I:2005:GLN:O	2:I:2009:LEU:HD23	2.13	0.47
2:I:2340:PHE:HB2	2:I:2435:ARG:HB3	1.96	0.47
2:I:2620:GLN:N	2:I:2620:GLN:OE1	2.48	0.47
2:I:3409:TYR:O	2:I:3413:ILE:HG12	2.14	0.47
2:I:3696:ASP:CG	2:I:3773:ARG:HE	2.23	0.47
2:I:3934:TYR:HB2	2:I:3999:MET:HE2	1.94	0.47
2:I:4180:ARG:NE	2:I:4981:GLU:OE1	2.40	0.47
2:I:4201:ASN:HB3	2:I:4993:MET:HE1	1.96	0.47
2:A:214:VAL:HG22	2:A:341:TYR:CE2	2.49	0.47
2:A:543:ASN:O	2:A:546:TRP:HB3	2.14	0.47
2:A:1272:LEU:HD22	2:A:1289:LEU:HD11	1.96	0.47
2:A:1420:ASN:OD1	2:A:1421:ARG:N	2.47	0.47
2:A:2687:ALA:HB1	2:A:2966:TRP:CH2	2.49	0.47
2:A:4152:GLU:HG2	2:A:4192:ARG:HH11	1.79	0.47
2:A:4239:GLU:O	2:A:4242:ILE:HB	2.14	0.47
2:A:4984:ASN:C	2:A:4986:ALA:H	2.23	0.47
2:G:1771:LEU:HD22	2:G:2144:ILE:HD11	1.97	0.47
2:G:4087:LEU:HB3	2:G:4122:MET:O	2.14	0.47
2:G:4201:ASN:HB3	2:G:4993:MET:HE1	1.97	0.47
2:B:2894:LEU:HD12	2:B:2897:LYS:HE3	1.97	0.47
2:B:3998:HIS:O	2:B:3999:MET:C	2.57	0.47
2:B:4088:ILE:HG23	2:B:4093:PHE:HB2	1.95	0.47
2:B:4569:LEU:CD2	2:B:4650:HIS:HB2	2.44	0.47
2:I:472:ARG:NH2	2:I:532:GLY:HA3	2.29	0.47
2:I:543:ASN:O	2:I:546:TRP:HB3	2.14	0.47
2:I:1720:LEU:HD22	2:I:1851:MET:SD	2.54	0.47
2:I:4157:ASP:HB3	2:I:4160:LEU:HD12	1.95	0.47
2:I:4235:VAL:HG12	2:I:4992:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4569:LEU:CD2	2:I:4650:HIS:HB2	2.44	0.47
2:I:4701:TRP:CE2	2:I:4781:GLY:HA3	2.50	0.47
2:A:990:GLU:HG2	2:A:1024:TYR:CG	2.49	0.47
2:A:1609:PRO:HD2	2:A:1612:PHE:CE2	2.50	0.47
2:A:2438:PRO:HG2	2:A:2443:ILE:HD11	1.94	0.47
2:A:2487:GLN:NE2	2:A:2545:GLU:OE2	2.44	0.47
2:A:2693:GLN:N	2:A:2996:LYS:HZ1	2.11	0.47
2:A:2894:LEU:HD12	2:A:2897:LYS:HE3	1.97	0.47
2:A:3190:LEU:HD21	2:A:3272:ILE:HG23	1.95	0.47
2:G:214:VAL:HG22	2:G:341:TYR:CE2	2.49	0.47
2:G:457:GLU:OE2	2:G:464:LYS:NZ	2.47	0.47
2:G:921:ASN:HA	2:G:924:MET:HE2	1.95	0.47
2:G:1008:SER:O	2:G:1019:PRO:HA	2.15	0.47
2:G:1122:TYR:CE1	2:G:1133:HIS:CD2	3.03	0.47
2:G:2277:ALA:HB1	2:G:2337:PHE:HD2	1.79	0.47
2:G:2687:ALA:HB1	2:G:2966:TRP:CH2	2.49	0.47
2:G:2692:ASP:CG	2:G:2695:LEU:HB2	2.40	0.47
2:G:2992:GLU:O	2:G:2995:ILE:HB	2.15	0.47
2:G:3533:ILE:HG12	2:G:3596:VAL:HG23	1.96	0.47
2:G:3898:ASP:OD1	2:G:3899:PHE:N	2.48	0.47
2:G:3941:ASP:OD1	2:G:3942:VAL:N	2.48	0.47
2:G:4058:ILE:HA	2:G:4061:PHE:CE1	2.49	0.47
2:B:108:LEU:HD11	2:B:117:TYR:HB3	1.96	0.47
2:B:1720:LEU:O	2:B:1722:SER:N	2.47	0.47
2:B:4201:ASN:HB3	2:B:4993:MET:HE1	1.97	0.47
2:I:108:LEU:HD11	2:I:117:TYR:HB3	1.96	0.47
2:I:215:THR:HG1	2:I:218:HIS:CE1	2.32	0.47
2:I:4242:ILE:O	2:I:4246:GLN:HG3	2.13	0.47
2:A:108:LEU:HD11	2:A:117:TYR:HB3	1.97	0.47
2:A:1087:ARG:HB3	2:A:1223:PHE:CD2	2.50	0.47
2:A:1131:ARG:HE	2:A:1137:GLU:HB2	1.80	0.47
2:A:2032:GLN:O	2:A:2036:GLN:HG2	2.14	0.47
2:A:3873:LYS:HD2	2:A:3953:LYS:HE3	1.96	0.47
2:A:3898:ASP:OD1	2:A:3899:PHE:N	2.48	0.47
2:A:4157:ASP:HB3	2:A:4160:LEU:HD12	1.95	0.47
2:A:4170:ILE:HG13	2:A:4171:LEU:N	2.30	0.47
2:A:4211:LYS:O	2:A:4215:ARG:HG2	2.15	0.47
2:A:4672:LYS:HE2	2:A:4672:LYS:HA	1.96	0.47
2:A:4738:ALA:O	2:A:4743:MET:HB2	2.14	0.47
2:G:108:LEU:HD11	2:G:117:TYR:HB3	1.96	0.47
2:G:206:CYS:SG	2:G:207:SER:N	2.86	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2032:GLN:O	2:G:2036:GLN:HG2	2.14	0.47
2:G:2620:GLN:OE1	2:G:2620:GLN:N	2.47	0.47
2:G:2750[B]:LYS:O	2:G:2935:TYR:OH	2.31	0.47
2:G:2929:PHE:O	2:G:2933:ASN:N	2.48	0.47
2:G:3270:ILE:HG23	2:G:3274:LEU:HD13	1.95	0.47
2:G:3696:ASP:CG	2:G:3773:ARG:HE	2.23	0.47
2:G:3844:LEU:O	2:G:3847:PHE:HB3	2.15	0.47
2:G:4067:LYS:HE3	2:G:4169:SER:HB2	1.97	0.47
2:G:4088:ILE:HG23	2:G:4093:PHE:HB2	1.95	0.47
2:G:4170:ILE:HG13	2:G:4171:LEU:N	2.30	0.47
2:G:4675:LYS:HA	2:G:4715:TYR:HD2	1.79	0.47
2:G:4701:TRP:CE2	2:G:4781:GLY:HA3	2.50	0.47
2:G:4843:LEU:HD22	2:I:4823:LEU:CD1	2.44	0.47
2:G:4983:HIS:CB	3:G:5301:ATP:HN62	2.12	0.47
2:B:192:ASP:N	2:B:192:ASP:OD1	2.45	0.47
2:B:828:GLU:OE2	2:B:828:GLU:N	2.44	0.47
2:B:1053:ILE:H	2:B:1053:ILE:HD12	1.79	0.47
2:B:1087:ARG:HB3	2:B:1223:PHE:CD2	2.50	0.47
2:B:1122:TYR:CE1	2:B:1133:HIS:CD2	3.02	0.47
2:B:1131:ARG:HE	2:B:1137:GLU:HB2	1.80	0.47
2:B:2348:GLU:HG2	2:B:3849:ARG:HG3	1.94	0.47
2:B:2449:GLU:HA	2:B:2452:ARG:HE	1.80	0.47
2:B:2620:GLN:OE1	2:B:2620:GLN:N	2.48	0.47
2:B:2740:VAL:HG12	2:B:2881:ASN:ND2	2.29	0.47
2:B:2929:PHE:O	2:B:2933:ASN:N	2.48	0.47
2:B:2992:GLU:O	2:B:2995:ILE:HB	2.15	0.47
2:B:3132:THR:HG23	2:B:3136:LEU:HD13	1.96	0.47
2:B:3156:VAL:HG23	2:B:3157:ILE:HD12	1.96	0.47
2:B:3409:TYR:O	2:B:3413:ILE:HG12	2.14	0.47
2:B:3844:LEU:O	2:B:3847:PHE:HB3	2.15	0.47
2:B:3941:ASP:OD1	2:B:3942:VAL:N	2.48	0.47
2:B:4180:ARG:NE	2:B:4981:GLU:OE1	2.40	0.47
2:B:4239:GLU:O	2:B:4242:ILE:HB	2.14	0.47
2:B:4242:ILE:O	2:B:4246:GLN:HG3	2.13	0.47
2:I:779:PRO:HB2	2:I:791:PHE:CZ	2.48	0.47
2:I:917:GLU:HA	2:I:920:TYR:CE1	2.50	0.47
2:I:1008:SER:O	2:I:1019:PRO:HA	2.15	0.47
2:I:1087:ARG:HB3	2:I:1223:PHE:CD2	2.50	0.47
2:I:1733:GLU:HG2	2:I:2201:LEU:HD23	1.96	0.47
2:I:2449:GLU:HA	2:I:2452:ARG:HE	1.80	0.47
2:I:2601:ASP:O	2:I:2604:GLU:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2894:LEU:HD12	2:I:2897:LYS:HE3	1.97	0.47
2:I:2980:VAL:HG13	2:I:2984:GLY:HA2	1.97	0.47
2:I:3077:ALA:HB3	2:I:3156:VAL:HG12	1.95	0.47
2:I:3269:VAL:O	2:I:3272:ILE:N	2.47	0.47
2:I:3270:ILE:HG23	2:I:3274:LEU:HD13	1.96	0.47
2:I:3844:LEU:O	2:I:3847:PHE:HB3	2.15	0.47
2:I:3898:ASP:OD1	2:I:3899:PHE:N	2.48	0.47
2:I:3962:PHE:CE1	2:I:4023:MET:SD	3.08	0.47
2:I:4170:ILE:HG13	2:I:4171:LEU:N	2.30	0.47
2:A:546:TRP:O	2:A:549:SER:OG	2.32	0.47
2:A:1286:MET:HE2	2:A:1286:MET:HB3	1.78	0.47
2:A:1733:GLU:HG2	2:A:2201:LEU:HD23	1.96	0.47
2:A:2449:GLU:HA	2:A:2452:ARG:HE	1.80	0.47
2:A:3844:LEU:O	2:A:3847:PHE:HB3	2.15	0.47
2:G:1442:GLY:O	2:G:1557:THR:OG1	2.30	0.47
2:G:1720:LEU:O	2:G:1722:SER:N	2.47	0.47
2:G:4569:LEU:CD2	2:G:4650:HIS:HB2	2.44	0.47
2:G:4699:GLY:O	2:G:4703:ARG:HG3	2.15	0.47
2:B:2355:ARG:O	2:B:2359:ARG:HG2	2.14	0.47
2:B:3282:PRO:HA	2:B:3312:LEU:HD21	1.97	0.47
2:B:3316:LEU:HD13	2:B:3345:ILE:HG23	1.96	0.47
2:I:1053:ILE:H	2:I:1053:ILE:HD12	1.79	0.47
2:I:2026:ASP:OD1	2:I:2026:ASP:N	2.43	0.47
2:I:2776:SER:OG	2:I:2777:TYR:N	2.47	0.47
2:I:3282:PRO:HA	2:I:3312:LEU:HD21	1.97	0.47
2:I:4152:GLU:HG2	2:I:4192:ARG:HH11	1.79	0.47
2:I:4699:GLY:O	2:I:4703:ARG:HG3	2.15	0.47
2:A:192:ASP:OD1	2:A:192:ASP:N	2.45	0.47
2:A:2601:ASP:O	2:A:2604:GLU:HG3	2.15	0.47
2:A:2740:VAL:HG12	2:A:2881:ASN:ND2	2.30	0.47
2:A:2977:LEU:O	2:A:2981:VAL:HG23	2.14	0.47
2:A:3045:LYS:O	2:A:3049:LEU:HG	2.15	0.47
2:A:4034:ASN:OD1	2:A:4040:ILE:HB	2.15	0.47
2:G:1132:TRP:CZ2	2:G:1136:SER:HB3	2.49	0.47
2:G:2601:ASP:O	2:G:2604:GLU:HG3	2.15	0.47
2:G:2776:SER:OG	2:G:2777:TYR:N	2.47	0.47
2:G:3984:ARG:NH1	2:G:3986:TRP:HB2	2.28	0.47
2:G:4672:LYS:HE2	2:G:4672:LYS:HA	1.96	0.47
2:B:451:TYR:CZ	2:B:474:ARG:HD2	2.50	0.47
2:B:1201:HIS:CE1	2:B:1203:ASN:HB2	2.50	0.47
2:B:2693:GLN:N	2:B:2996:LYS:HZ1	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3045:LYS:O	2:B:3049:LEU:HG	2.15	0.47
2:B:3530:GLN:O	2:B:3533:ILE:HB	2.15	0.47
2:I:1122:TYR:CE1	2:I:1133:HIS:CD2	3.02	0.47
2:I:1609:PRO:HD2	2:I:1612:PHE:CE2	2.50	0.47
2:I:2692:ASP:CG	2:I:2695:LEU:HB2	2.40	0.47
2:I:2967:MET:CE	2:I:3045:LYS:HB3	2.44	0.47
2:I:4211:LYS:O	2:I:4215:ARG:HG2	2.15	0.47
2:A:3352:GLU:OE1	2:A:3352:GLU:N	2.41	0.47
2:G:472:ARG:NH2	2:G:532:GLY:HA3	2.29	0.47
2:G:1609:PRO:HD2	2:G:1612:PHE:CE2	2.50	0.47
2:G:2449:GLU:HA	2:G:2452:ARG:HE	1.80	0.47
2:G:2578:MET:O	2:G:2581:SER:OG	2.22	0.47
2:G:3077:ALA:HB3	2:G:3156:VAL:HG12	1.95	0.47
2:G:4034:ASN:OD1	2:G:4040:ILE:HB	2.15	0.47
2:G:4062:PHE:HZ	2:G:4143:VAL:HG11	1.80	0.47
2:G:4690:GLU:OE1	2:G:4690:GLU:N	2.49	0.47
2:B:1732:SER:O	2:B:1732:SER:OG	2.30	0.47
2:B:3696:ASP:CG	2:B:3773:ARG:HE	2.23	0.47
2:B:3888:LEU:HD13	2:B:3891:LEU:HD12	1.97	0.47
2:B:4152:GLU:HG2	2:B:4192:ARG:HH11	1.79	0.47
2:B:4156:HIS:HA	2:B:4161:ARG:HH12	1.80	0.47
2:B:4576:ILE:HD12	2:B:4646:LEU:HD12	1.97	0.47
2:I:669:ASP:CG	2:I:790:ARG:HH12	2.23	0.47
2:I:1201:HIS:CE1	2:I:1203:ASN:HB2	2.50	0.47
2:I:1820:ARG:HD2	2:I:1820:ARG:HA	1.69	0.47
2:I:2750[B]:LYS:H	2:I:2750[B]:LYS:HG3	1.36	0.47
2:I:2992:GLU:O	2:I:2995:ILE:HB	2.15	0.47
2:I:3941:ASP:OD1	2:I:3942:VAL:N	2.48	0.47
2:I:3984:ARG:NH1	2:I:3986:TRP:HB2	2.28	0.47
2:I:4003:LEU:HB3	2:I:4013:LEU:HD12	1.97	0.47
2:I:4214:LYS:HD3	2:I:4234:PHE:HZ	1.78	0.47
2:I:4239:GLU:O	2:I:4242:ILE:HB	2.14	0.47
2:I:4672:LYS:HE2	2:I:4672:LYS:HA	1.96	0.47
2:I:4701:TRP:HA	2:I:4704:LEU:HD23	1.97	0.47
2:A:67:PHE:CD1	2:A:111:HIS:HA	2.50	0.46
2:A:917:GLU:HA	2:A:920:TYR:CE1	2.50	0.46
2:A:1008:SER:O	2:A:1019:PRO:HA	2.15	0.46
2:A:1771:LEU:HD22	2:A:2144:ILE:HD11	1.97	0.46
2:A:2616:PRO:HB3	2:A:2651:CYS:SG	2.56	0.46
2:A:2627:VAL:HG21	2:A:2674:LEU:CD1	2.44	0.46
2:A:2692:ASP:CG	2:A:2695:LEU:HB2	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2716:ASP:HB2	2:A:2719:TYR:CD1	2.50	0.46
2:A:3941:ASP:OD1	2:A:3942:VAL:N	2.48	0.46
1:O:106:LEU:HD12	1:O:106:LEU:HA	1.72	0.46
2:G:828:GLU:OE2	2:G:828:GLU:N	2.44	0.46
2:G:990:GLU:HG2	2:G:1024:TYR:CG	2.49	0.46
2:G:3358:PHE:CE2	2:G:3412:LEU:HD13	2.49	0.46
2:G:3525:CYS:HA	2:G:3595:ARG:HH12	1.81	0.46
2:G:3873:LYS:HD2	2:G:3953:LYS:HE3	1.96	0.46
2:B:67:PHE:CD1	2:B:111:HIS:HA	2.51	0.46
2:B:543:ASN:O	2:B:546:TRP:HB3	2.14	0.46
2:B:1232:ARG:NH2	2:B:1828:ASP:OD1	2.48	0.46
2:B:2894:LEU:O	2:B:2898:GLY:N	2.48	0.46
2:B:2980:VAL:HG13	2:B:2984:GLY:HA2	1.97	0.46
2:B:3190:LEU:HD21	2:B:3272:ILE:HG23	1.95	0.46
2:B:4003:LEU:HB3	2:B:4013:LEU:HD12	1.97	0.46
2:B:4211:LYS:O	2:B:4215:ARG:HG2	2.15	0.46
2:B:4672:LYS:HE2	2:B:4672:LYS:HA	1.96	0.46
2:B:4690:GLU:OE1	2:B:4690:GLU:N	2.49	0.46
2:B:4699:GLY:O	2:B:4703:ARG:HG3	2.15	0.46
2:I:1074:ILE:HG23	2:I:1115:LEU:HD11	1.97	0.46
2:I:2740:VAL:HG12	2:I:2881:ASN:ND2	2.30	0.46
2:I:3096:PHE:HD2	2:I:3161:VAL:CG1	2.29	0.46
2:I:4690:GLU:OE1	2:I:4690:GLU:N	2.49	0.46
2:A:457:GLU:OE2	2:A:464:LYS:NZ	2.47	0.46
2:A:1074:ILE:HG23	2:A:1115:LEU:HD11	1.97	0.46
2:A:1122:TYR:CE1	2:A:1133:HIS:CD2	3.02	0.46
2:A:1164:LEU:HB2	2:A:1169:LEU:HD11	1.98	0.46
2:A:1714:LEU:O	2:A:1718:ILE:HG12	2.15	0.46
2:A:3156:VAL:HG23	2:A:3157:ILE:HD12	1.96	0.46
2:G:669:ASP:CG	2:G:790:ARG:HH12	2.23	0.46
2:G:1087:ARG:HB3	2:G:1223:PHE:CD2	2.50	0.46
2:G:1131:ARG:HE	2:G:1137:GLU:HB2	1.80	0.46
2:G:1714:LEU:O	2:G:1718:ILE:HG12	2.16	0.46
2:G:1966:VAL:HG21	2:G:3649:ALA:HB1	1.98	0.46
2:G:2558:VAL:O	2:G:2562:ILE:HG13	2.15	0.46
2:G:2616:PRO:HB3	2:G:2651:CYS:SG	2.55	0.46
2:G:3096:PHE:HD2	2:G:3161:VAL:CG1	2.29	0.46
2:G:3668:SER:O	2:G:3668:SER:OG	2.27	0.46
2:B:214:VAL:HG22	2:B:341:TYR:CE2	2.49	0.46
2:B:2601:ASP:O	2:B:2604:GLU:HG3	2.15	0.46
2:B:3169:LEU:O	2:B:3172:ILE:HG22	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3673:MET:SD	2:B:3728:ILE:HD13	2.56	0.46
2:B:4984:ASN:C	2:B:4986:ALA:H	2.23	0.46
2:I:67:PHE:CD1	2:I:111:HIS:HA	2.50	0.46
2:I:546:TRP:O	2:I:549:SER:OG	2.32	0.46
2:I:1131:ARG:HE	2:I:1137:GLU:HB2	1.80	0.46
2:I:1442:GLY:O	2:I:1557:THR:OG1	2.30	0.46
2:I:2616:PRO:HB3	2:I:2651:CYS:SG	2.56	0.46
2:I:4827:LEU:O	2:I:4830:VAL:HG22	2.16	0.46
2:A:943:ASP:OD1	2:A:945:LYS:HE3	2.16	0.46
2:A:1059:GLU:OE1	2:A:1059:GLU:N	2.49	0.46
2:A:1076:ARG:NH1	2:A:1079:LYS:HG3	2.29	0.46
2:A:3673:MET:SD	2:A:3728:ILE:HD13	2.56	0.46
2:A:3888:LEU:HD13	2:A:3891:LEU:HD12	1.97	0.46
2:A:3962:PHE:CE1	2:A:4023:MET:SD	3.08	0.46
2:A:4067:LYS:HE3	2:A:4169:SER:HB2	1.97	0.46
2:A:4569:LEU:CD2	2:A:4650:HIS:HB2	2.44	0.46
2:G:67:PHE:CD1	2:G:111:HIS:HA	2.50	0.46
2:G:2716:ASP:HB2	2:G:2719:TYR:CD1	2.50	0.46
2:G:2740:VAL:HG12	2:G:2881:ASN:ND2	2.29	0.46
2:G:2819:TRP:CH2	2:G:2881:ASN:HB2	2.51	0.46
2:G:2880:GLU:O	2:G:2884:ASN:HB2	2.16	0.46
2:G:2894:LEU:HD12	2:G:2897:LYS:HE3	1.97	0.46
2:G:3326:ASN:OD1	2:G:3329:ILE:HB	2.16	0.46
2:G:3436:ARG:NE	2:G:3598:GLU:OE1	2.30	0.46
2:G:3673:MET:SD	2:G:3728:ILE:HD13	2.56	0.46
2:G:3962:PHE:CE1	2:G:4023:MET:SD	3.08	0.46
2:G:4021:LYS:HA	2:G:4142:ASN:HD21	1.81	0.46
2:G:4211:LYS:O	2:G:4215:ARG:HG2	2.15	0.46
2:B:1771:LEU:HD22	2:B:2144:ILE:HD11	1.96	0.46
2:B:3962:PHE:CE1	2:B:4023:MET:SD	3.08	0.46
2:B:4157:ASP:HB3	2:B:4160:LEU:HD12	1.95	0.46
2:B:4701:TRP:CE2	2:B:4781:GLY:HA3	2.50	0.46
2:I:1575:LEU:HD23	2:I:1575:LEU:HA	1.76	0.46
2:I:1966:VAL:HG21	2:I:3649:ALA:HB1	1.98	0.46
2:I:2366:PRO:HA	2:I:2369:ARG:NH1	2.31	0.46
2:I:2819:TRP:CH2	2:I:2881:ASN:HB2	2.51	0.46
2:I:2929:PHE:O	2:I:2933:ASN:N	2.48	0.46
2:I:3944:GLU:HG3	2:I:3947:GLY:H	1.81	0.46
2:I:3951:PHE:CD2	2:I:4012:LEU:HD21	2.49	0.46
2:I:4817:ALA:HB1	2:I:4827:LEU:HD11	1.98	0.46
2:I:4984:ASN:C	2:I:4986:ALA:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2750[B]:LYS:NZ	2:A:2824:GLU:OE1	2.49	0.46
2:A:2750[B]:LYS:O	2:A:2935:TYR:OH	2.31	0.46
2:A:3169:LEU:O	2:A:3172:ILE:HG22	2.14	0.46
2:A:3525:CYS:HA	2:A:3595:ARG:HH12	1.81	0.46
2:A:4021:LYS:HA	2:A:4142:ASN:HD21	1.81	0.46
2:A:4156:HIS:HA	2:A:4161:ARG:HH12	1.80	0.46
2:G:943:ASP:OD1	2:G:945:LYS:HE3	2.16	0.46
2:G:1164:LEU:HB2	2:G:1169:LEU:HD11	1.98	0.46
2:G:1201:HIS:CE1	2:G:1203:ASN:HB2	2.50	0.46
2:G:1232:ARG:NH2	2:G:1828:ASP:OD1	2.48	0.46
2:G:1420:ASN:OD1	2:G:1421:ARG:N	2.47	0.46
2:G:2767:ALA:HB3	2:G:2857:PRO:HG3	1.97	0.46
2:G:4576:ILE:HD12	2:G:4646:LEU:HD12	1.97	0.46
2:G:4654:ALA:C	2:G:4796:MET:HE1	2.41	0.46
2:B:233:ILE:O	2:B:257:ARG:NH1	2.41	0.46
2:B:917:GLU:HA	2:B:920:TYR:CE1	2.50	0.46
2:B:1714:LEU:O	2:B:1718:ILE:HG12	2.15	0.46
2:B:2776:SER:OG	2:B:2777:TYR:N	2.47	0.46
2:B:2880:GLU:O	2:B:2884:ASN:HB2	2.16	0.46
2:B:2967:MET:HE2	2:B:3045:LYS:HB3	1.98	0.46
2:B:3533:ILE:HG12	2:B:3596:VAL:HG23	1.96	0.46
2:I:1059:GLU:OE1	2:I:1059:GLU:N	2.49	0.46
2:I:2694:GLU:HG2	2:I:2695:LEU:N	2.31	0.46
2:I:2880:GLU:HG2	2:I:2908:TYR:HB3	1.97	0.46
2:I:3987:ASP:HA	2:I:3990:VAL:HB	1.96	0.46
2:I:4087:LEU:HB3	2:I:4122:MET:O	2.14	0.46
2:A:215:THR:H	2:A:218:HIS:CE1	2.34	0.46
2:A:233:ILE:HD12	2:A:242:ARG:HB3	1.98	0.46
2:A:986:ASP:OD1	2:A:986:ASP:N	2.44	0.46
2:A:1232:ARG:NH2	2:A:1828:ASP:OD1	2.48	0.46
2:A:2650:ARG:O	2:A:2661:TRP:HZ2	1.99	0.46
2:A:2750[B]:LYS:H	2:A:2750[B]:LYS:HG3	1.36	0.46
2:A:3078:ARG:HG3	2:A:3079:THR:H	1.81	0.46
2:A:3274:LEU:HD21	2:A:3319:ILE:HD12	1.98	0.46
2:A:3998:HIS:O	2:A:3999:MET:C	2.57	0.46
2:A:4701:TRP:CE2	2:A:4781:GLY:HA3	2.50	0.46
2:G:928:THR:O	2:G:932:LEU:HG	2.16	0.46
2:G:2228:MET:HE2	2:G:2228:MET:HB2	1.85	0.46
2:G:2366:PRO:HA	2:G:2369:ARG:NH1	2.31	0.46
2:G:2514:ASN:ND2	2:G:2516:ASP:HB3	2.31	0.46
2:G:4227:GLU:HA	2:G:4230:LYS:NZ	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3553:LEU:HD13	2:B:3596:VAL:HG13	1.98	0.46
2:B:4702:ASP:O	2:B:4705:VAL:HG12	2.16	0.46
2:I:774:ASP:OD1	2:I:774:ASP:N	2.47	0.46
2:I:1232:ARG:NH2	2:I:1828:ASP:OD1	2.48	0.46
2:I:1427:ILE:HD13	2:I:1571:ASN:HA	1.98	0.46
2:I:2355:ARG:O	2:I:2359:ARG:HG2	2.14	0.46
2:I:2767:ALA:HB3	2:I:2857:PRO:HG3	1.97	0.46
2:I:2880:GLU:O	2:I:2884:ASN:HB2	2.16	0.46
2:I:3246:LEU:HD13	2:I:3249:LEU:HD11	1.98	0.46
2:I:3530:GLN:O	2:I:3533:ILE:HB	2.15	0.46
2:I:4067:LYS:HE3	2:I:4169:SER:HB2	1.96	0.46
2:A:451:TYR:CZ	2:A:474:ARG:HD2	2.50	0.46
2:A:472:ARG:NH2	2:A:532:GLY:HA3	2.29	0.46
2:A:928:THR:O	2:A:932:LEU:HG	2.16	0.46
2:A:2929:PHE:O	2:A:2933:ASN:N	2.48	0.46
2:A:3070:ILE:O	2:A:3074:SER:N	2.46	0.46
2:A:3162:GLN:CD	2:A:3218:VAL:HB	2.41	0.46
2:A:3530:GLN:O	2:A:3533:ILE:HB	2.15	0.46
2:A:4683:PHE:CE2	2:A:5017:ARG:HG3	2.51	0.46
2:A:4690:GLU:OE1	2:A:4690:GLU:N	2.49	0.46
2:G:2694:GLU:HG2	2:G:2695:LEU:N	2.31	0.46
2:G:3987:ASP:HA	2:G:3990:VAL:HB	1.96	0.46
2:G:4003:LEU:HB3	2:G:4013:LEU:HD12	1.97	0.46
2:G:4817:ALA:HB1	2:G:4827:LEU:HD11	1.98	0.46
2:G:4984:ASN:C	2:G:4986:ALA:H	2.23	0.46
2:B:581:ASN:OD1	2:B:582:HIS:N	2.49	0.46
2:B:943:ASP:OD1	2:B:945:LYS:HE3	2.16	0.46
2:B:2694:GLU:HG2	2:B:2695:LEU:N	2.31	0.46
2:B:2716:ASP:HB2	2:B:2719:TYR:CD1	2.51	0.46
2:B:3058:GLY:O	2:B:3061:ALA:HB3	2.16	0.46
2:B:4654:ALA:C	2:B:4796:MET:HE1	2.41	0.46
2:B:4701:TRP:HA	2:B:4704:LEU:HD23	1.97	0.46
2:I:2558:VAL:O	2:I:2562:ILE:HG13	2.16	0.46
2:I:2585:THR:HA	2:I:2588:ARG:NH1	2.31	0.46
2:I:3162:GLN:CD	2:I:3218:VAL:HB	2.41	0.46
2:I:3326:ASN:OD1	2:I:3329:ILE:HB	2.16	0.46
2:I:3673:MET:SD	2:I:3728:ILE:HD13	2.56	0.46
2:A:2355:ARG:O	2:A:2359:ARG:HG2	2.14	0.46
2:A:2479:LEU:HD13	2:A:2541:PHE:CD2	2.51	0.46
2:A:3058:GLY:O	2:A:3061:ALA:HB3	2.16	0.46
2:A:3282:PRO:HA	2:A:3312:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3533:ILE:HG12	2:A:3596:VAL:HG23	1.96	0.46
2:A:3901:ASN:HA	2:A:3904:ARG:HH21	1.81	0.46
2:A:4062:PHE:HZ	2:A:4143:VAL:HG11	1.80	0.46
2:A:4227:GLU:HA	2:A:4230:LYS:NZ	2.31	0.46
2:A:4702:ASP:O	2:A:4705:VAL:HG12	2.16	0.46
2:A:4844:LEU:HD11	2:A:4924:VAL:HG13	1.97	0.46
2:G:451:TYR:CZ	2:G:474:ARG:HD2	2.50	0.46
2:G:4827:LEU:O	2:G:4830:VAL:HG22	2.16	0.46
2:B:659:TYR:HB2	2:B:1017:ARG:HH12	1.81	0.46
2:B:2616:PRO:HB3	2:B:2651:CYS:SG	2.56	0.46
2:B:2880:GLU:HG2	2:B:2908:TYR:HB3	1.98	0.46
2:B:3096:PHE:HD2	2:B:3161:VAL:CG1	2.29	0.46
2:I:1047:LEU:O	2:I:1049:TYR:N	2.49	0.46
2:I:1720:LEU:O	2:I:1722:SER:N	2.47	0.46
2:I:1732:SER:O	2:I:1732:SER:OG	2.30	0.46
2:I:2750[B]:LYS:NZ	2:I:2824:GLU:OE1	2.49	0.46
2:I:2954:ARG:HB3	2:I:2957:PHE:CB	2.46	0.46
2:I:4062:PHE:HZ	2:I:4143:VAL:HG11	1.80	0.46
2:I:4576:ILE:HD12	2:I:4646:LEU:HD12	1.97	0.46
2:A:1987:SER:OG	2:A:1987:SER:O	2.34	0.46
2:A:2967:MET:HE2	2:A:3045:LYS:HB3	1.98	0.46
2:A:3096:PHE:HD2	2:A:3161:VAL:CG1	2.29	0.46
2:A:3326:ASN:OD1	2:A:3329:ILE:HB	2.16	0.46
2:A:3365:LEU:HA	2:A:3368:ARG:HG2	1.98	0.46
2:A:3553:LEU:HD13	2:A:3596:VAL:HG13	1.98	0.46
2:A:3944:GLU:HG3	2:A:3947:GLY:H	1.81	0.46
2:A:4097:MET:HE1	2:A:4111:LEU:HD12	1.98	0.46
2:G:233:ILE:O	2:G:257:ARG:NH1	2.41	0.46
2:G:233:ILE:HD12	2:G:242:ARG:HB3	1.98	0.46
2:G:2238:TYR:HA	2:G:2241:ARG:NH2	2.31	0.46
2:G:2775:TRP:HA	2:G:2786:LYS:HB3	1.98	0.46
2:G:2871:LEU:HA	2:G:2874:MET:HG2	1.97	0.46
2:G:3045:LYS:O	2:G:3049:LEU:HG	2.15	0.46
2:G:3282:PRO:HA	2:G:3312:LEU:HD21	1.97	0.46
2:G:3530:GLN:O	2:G:3533:ILE:HB	2.15	0.46
2:G:4066:LEU:HD11	2:G:4173:TYR:HB3	1.98	0.46
2:B:928:THR:O	2:B:932:LEU:HG	2.16	0.46
2:B:1733:GLU:HG2	2:B:2201:LEU:HD23	1.96	0.46
2:B:2366:PRO:HA	2:B:2369:ARG:NH1	2.31	0.46
2:B:2650:ARG:O	2:B:2661:TRP:HZ2	1.99	0.46
2:B:2692:ASP:CG	2:B:2695:LEU:HB2	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3207:GLU:O	2:B:3210:LEU:N	2.45	0.46
2:B:3898:ASP:OD1	2:B:3899:PHE:N	2.48	0.46
2:B:3944:GLU:HG3	2:B:3947:GLY:H	1.81	0.46
2:B:4227:GLU:HA	2:B:4230:LYS:NZ	2.31	0.46
2:I:2238:TYR:HA	2:I:2241:ARG:NH2	2.31	0.46
2:I:2959:PHE:O	2:I:2963:LEU:HD23	2.16	0.46
2:I:3365:LEU:HA	2:I:3368:ARG:HG2	1.98	0.46
2:I:4227:GLU:HA	2:I:4230:LYS:NZ	2.31	0.46
2:I:4232:GLU:HG2	2:I:5022:PHE:CZ	2.51	0.46
2:I:4654:ALA:C	2:I:4796:MET:HE1	2.41	0.46
2:I:4737:ILE:HA	2:I:4740:LEU:HD12	1.98	0.46
2:A:581:ASN:OD1	2:A:582:HIS:N	2.49	0.46
2:A:1147:ASP:HB3	2:A:1164:LEU:HD11	1.98	0.46
2:A:2819:TRP:CH2	2:A:2881:ASN:HB2	2.51	0.46
2:A:2871:LEU:HA	2:A:2874:MET:HG2	1.97	0.46
2:A:3096:PHE:HD2	2:A:3161:VAL:HG13	1.81	0.46
2:A:3246:LEU:HD13	2:A:3249:LEU:HD11	1.98	0.46
2:A:4087:LEU:HB3	2:A:4122:MET:O	2.14	0.46
2:A:4221:VAL:HG23	2:A:4230:LYS:HZ3	1.80	0.46
2:G:1433:TYR:CE2	2:G:1578:ALA:HB2	2.51	0.46
2:G:2959:PHE:O	2:G:2963:LEU:HD23	2.16	0.46
2:G:3078:ARG:HG3	2:G:3079:THR:H	1.81	0.46
2:G:3162:GLN:CD	2:G:3218:VAL:HB	2.41	0.46
2:G:3246:LEU:HD13	2:G:3249:LEU:HD11	1.98	0.46
2:G:3455:GLU:OE1	2:G:3510:ILE:HD11	2.16	0.46
2:G:3904:ARG:HB2	2:G:3914:ASN:ND2	2.31	0.46
2:B:233:ILE:HD12	2:B:242:ARG:HB3	1.98	0.46
2:B:546:TRP:O	2:B:549:SER:OG	2.32	0.46
2:B:652:ARG:HD2	2:B:750:LEU:HD13	1.97	0.46
2:B:669:ASP:CG	2:B:790:ARG:HH12	2.23	0.46
2:B:1059:GLU:OE1	2:B:1059:GLU:N	2.49	0.46
2:B:1609:PRO:HD2	2:B:1612:PHE:CE2	2.50	0.46
2:B:2627:VAL:HG21	2:B:2674:LEU:CD1	2.44	0.46
2:B:2750[A]:LYS:O	2:B:2935:TYR:OH	2.33	0.46
2:B:2871:LEU:HA	2:B:2874:MET:HG2	1.97	0.46
2:B:2959:PHE:O	2:B:2963:LEU:HD23	2.16	0.46
2:B:3162:GLN:CD	2:B:3218:VAL:HB	2.41	0.46
2:B:4574:ASN:ND2	2:B:4810:ALA:HA	2.31	0.46
2:B:4737:ILE:HA	2:B:4740:LEU:HD12	1.98	0.46
2:B:4827:LEU:O	2:B:4830:VAL:HG22	2.16	0.46
2:I:659:TYR:HB2	2:I:1017:ARG:HH12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1714:LEU:O	2:I:1718:ILE:HG12	2.15	0.46
2:I:2627:VAL:HG21	2:I:2674:LEU:CD1	2.44	0.46
2:I:2871:LEU:HA	2:I:2874:MET:HG2	1.97	0.46
2:I:3284:TRP:HA	2:I:3287:ARG:HH21	1.81	0.46
2:A:1201:HIS:CE1	2:A:1203:ASN:HB2	2.50	0.46
2:A:1966:VAL:HG21	2:A:3649:ALA:HB1	1.98	0.46
2:A:2419:GLY:HA2	2:A:2422:ILE:HB	1.98	0.46
2:A:3207:GLU:O	2:A:3210:LEU:N	2.45	0.46
2:A:3419:ASN:OD1	2:A:3422:HIS:HB3	2.16	0.46
2:A:3455:GLU:OE1	2:A:3510:ILE:HD11	2.16	0.46
2:A:3696:ASP:CG	2:A:3773:ARG:HE	2.23	0.46
2:A:4003:LEU:HB3	2:A:4013:LEU:HD12	1.97	0.46
2:A:4817:ALA:HB1	2:A:4827:LEU:HD11	1.98	0.46
2:A:4827:LEU:O	2:A:4830:VAL:HG22	2.16	0.46
2:G:1977:TYR:HE1	2:G:1981:MET:HE2	1.80	0.46
2:G:2419:GLY:HA2	2:G:2422:ILE:HB	1.98	0.46
2:G:3400:VAL:HG13	2:G:3403:ARG:HH22	1.81	0.46
2:G:4702:ASP:O	2:G:4705:VAL:HG12	2.16	0.46
2:B:2458:ARG:HA	2:B:2510:TYR:CE1	2.51	0.46
2:B:2775:TRP:HA	2:B:2786:LYS:HB3	1.98	0.46
2:B:3078:ARG:HG3	2:B:3079:THR:H	1.81	0.46
2:B:3274:LEU:HD21	2:B:3319:ILE:HD12	1.98	0.46
2:B:3400:VAL:HG13	2:B:3403:ARG:HH22	1.81	0.46
2:B:3525:CYS:HA	2:B:3595:ARG:HH12	1.81	0.46
2:B:3901:ASN:HA	2:B:3904:ARG:HH21	1.81	0.46
2:B:4026:MET:HE3	2:B:4026:MET:HB3	1.51	0.46
2:B:4080:TYR:HD2	2:B:4096:ALA:HA	1.81	0.46
2:I:1977:TYR:HE1	2:I:1981:MET:HE2	1.80	0.46
2:I:2716:ASP:HB2	2:I:2719:TYR:CD1	2.50	0.46
2:I:3320:LEU:O	2:I:3324:VAL:HG23	2.16	0.46
2:I:3400:VAL:HG13	2:I:3403:ARG:HH22	1.81	0.46
2:I:3545:THR:O	2:I:3548:GLU:N	2.49	0.46
2:I:3553:LEU:HD13	2:I:3596:VAL:HG13	1.98	0.46
2:I:4683:PHE:CE2	2:I:5017:ARG:HG3	2.51	0.46
2:A:652:ARG:HD2	2:A:750:LEU:HD13	1.97	0.45
2:A:1464:PHE:CE1	2:A:1553:PHE:HD2	2.34	0.45
2:A:2159:LEU:HD13	2:A:2203:MET:SD	2.56	0.45
1:H:75:THR:HG22	1:H:98:ILE:HG13	1.98	0.45
2:G:659:TYR:HB2	2:G:1017:ARG:HH12	1.81	0.45
2:G:1147:ASP:HB3	2:G:1164:LEU:HD11	1.98	0.45
2:G:2750[B]:LYS:NZ	2:G:2824:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2954:ARG:HB3	2:G:2957:PHE:CB	2.46	0.45
2:G:3058:GLY:O	2:G:3061:ALA:HB3	2.16	0.45
2:G:3206:LEU:HA	2:G:3246:LEU:CD2	2.42	0.45
2:B:721:LEU:HA	2:B:721:LEU:HD23	1.85	0.45
2:B:887:ILE:HG12	2:B:958:THR:HG23	1.98	0.45
2:B:1074:ILE:HG23	2:B:1115:LEU:HD11	1.97	0.45
2:B:1164:LEU:HB2	2:B:1169:LEU:HD11	1.98	0.45
2:B:1464:PHE:CE1	2:B:1553:PHE:HD2	2.34	0.45
2:B:1966:VAL:HG21	2:B:3649:ALA:HB1	1.98	0.45
2:B:1977:TYR:HE1	2:B:1981:MET:HE2	1.80	0.45
2:B:2479:LEU:HD13	2:B:2541:PHE:CD2	2.51	0.45
2:B:2514:ASN:ND2	2:B:2516:ASP:HB3	2.31	0.45
2:B:2819:TRP:CH2	2:B:2881:ASN:HB2	2.51	0.45
2:B:3668:SER:O	2:B:3668:SER:OG	2.27	0.45
2:B:3903:LEU:HD22	2:B:3915:ILE:HG21	1.98	0.45
2:B:4097:MET:HE1	2:B:4111:LEU:HD12	1.98	0.45
2:B:4120:ASN:OD1	2:B:4122:MET:HB3	2.17	0.45
2:I:78:LEU:HD23	2:I:82:LEU:HD23	1.99	0.45
2:I:928:THR:O	2:I:932:LEU:HG	2.16	0.45
2:I:3058:GLY:O	2:I:3061:ALA:HB3	2.16	0.45
2:I:4120:ASN:OD1	2:I:4122:MET:HB3	2.17	0.45
2:A:1821:ASP:C	2:A:1824:GLN:H	2.24	0.45
2:A:2775:TRP:HA	2:A:2786:LYS:HB3	1.97	0.45
2:A:2880:GLU:HG2	2:A:2908:TYR:HB3	1.97	0.45
2:A:2976:HIS:O	2:A:2980:VAL:HG23	2.16	0.45
2:A:3284:TRP:HA	2:A:3287:ARG:HH21	1.81	0.45
2:A:3873:LYS:HE3	2:A:3873:LYS:HB3	1.45	0.45
2:A:3916:ILE:O	2:A:3920:VAL:HG23	2.17	0.45
2:A:4175:ARG:HG2	2:A:4175:ARG:HH21	1.82	0.45
2:A:4654:ALA:C	2:A:4796:MET:HE1	2.41	0.45
2:A:4839:MET:HB3	2:G:4823:LEU:HD21	1.97	0.45
1:J:75:THR:HG22	1:J:98:ILE:HG13	1.99	0.45
2:G:917:GLU:HA	2:G:920:TYR:CE1	2.50	0.45
2:G:1047:LEU:O	2:G:1049:TYR:N	2.49	0.45
2:G:1427:ILE:HD13	2:G:1571:ASN:HA	1.98	0.45
2:G:2458:ARG:HA	2:G:2510:TYR:CE1	2.51	0.45
2:G:2650:ARG:O	2:G:2661:TRP:HZ2	1.99	0.45
2:G:2951:ILE:H	2:G:2951:ILE:HD12	1.81	0.45
2:G:3016:TYR:O	2:G:3019:SER:OG	2.23	0.45
2:G:3284:TRP:HA	2:G:3287:ARG:HH21	1.81	0.45
2:G:3545:THR:O	2:G:3548:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4683:PHE:CE2	2:G:5017:ARG:HG3	2.51	0.45
2:B:215:THR:H	2:B:218:HIS:CE1	2.34	0.45
2:B:1076:ARG:NH2	2:B:1655:GLU:OE1	2.45	0.45
2:B:2951:ILE:H	2:B:2951:ILE:HD12	1.81	0.45
2:B:3246:LEU:HD13	2:B:3249:LEU:HD11	1.98	0.45
2:B:4034:ASN:OD1	2:B:4040:ILE:HB	2.15	0.45
2:B:4817:ALA:HB1	2:B:4827:LEU:HD11	1.98	0.45
2:I:2650:ARG:O	2:I:2661:TRP:HZ2	1.99	0.45
2:I:2775:TRP:HA	2:I:2786:LYS:HB3	1.98	0.45
2:I:2951:ILE:H	2:I:2951:ILE:HD12	1.82	0.45
2:I:4217:PHE:O	2:I:4220:ASP:N	2.49	0.45
2:I:4844:LEU:HD11	2:I:4924:VAL:HG13	1.97	0.45
1:F:75:THR:HG22	1:F:98:ILE:HG13	1.98	0.45
2:A:1076:ARG:NH2	2:A:1655:GLU:OE1	2.45	0.45
2:A:1427:ILE:HD13	2:A:1571:ASN:HA	1.98	0.45
2:A:1577:ALA:O	2:A:1584:ARG:NE	2.45	0.45
2:A:2299:VAL:HG11	2:A:2356:LEU:HG	1.99	0.45
2:A:2366:PRO:HA	2:A:2369:ARG:NH1	2.31	0.45
2:A:2641:LEU:O	2:A:2644:LEU:HG	2.17	0.45
2:A:3989:VAL:CG1	2:A:4023:MET:HE2	2.46	0.45
2:A:4232:GLU:HG2	2:A:5022:PHE:CZ	2.51	0.45
2:A:4843:LEU:HD22	2:G:4823:LEU:CD1	2.46	0.45
1:O:75:THR:HG22	1:O:98:ILE:HG13	1.99	0.45
2:G:581:ASN:OD1	2:G:582:HIS:N	2.49	0.45
2:G:721:LEU:HA	2:G:721:LEU:HD23	1.85	0.45
2:G:1692:ALA:O	2:G:1693:GLN:C	2.59	0.45
2:G:2479:LEU:HD13	2:G:2541:PHE:CD2	2.51	0.45
2:G:2627:VAL:HG21	2:G:2674:LEU:CD1	2.45	0.45
2:G:2894:LEU:O	2:G:2898:GLY:N	2.48	0.45
2:G:3096:PHE:HD2	2:G:3161:VAL:HG13	1.81	0.45
2:B:924:MET:O	2:B:928:THR:OG1	2.30	0.45
2:B:1427:ILE:HD13	2:B:1571:ASN:HA	1.97	0.45
2:B:2159:LEU:HD13	2:B:2203:MET:SD	2.56	0.45
2:B:2750[B]:LYS:NZ	2:B:2824:GLU:OE1	2.49	0.45
2:B:3096:PHE:HD2	2:B:3161:VAL:HG13	1.81	0.45
2:B:3455:GLU:OE1	2:B:3510:ILE:HD11	2.17	0.45
2:B:3916:ILE:O	2:B:3920:VAL:HG23	2.17	0.45
2:B:3989:VAL:CG1	2:B:4023:MET:HE2	2.46	0.45
2:I:1164:LEU:HB2	2:I:1169:LEU:HD11	1.98	0.45
2:I:2458:ARG:HA	2:I:2510:TYR:CE1	2.51	0.45
2:I:2479:LEU:HD13	2:I:2541:PHE:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3078:ARG:CG	2:I:3079:THR:H	2.30	0.45
2:I:3078:ARG:HG3	2:I:3079:THR:H	1.81	0.45
2:I:3888:LEU:HD13	2:I:3891:LEU:HD12	1.97	0.45
2:I:4702:ASP:O	2:I:4705:VAL:HG12	2.16	0.45
2:I:5011:TRP:CE2	2:I:5015:GLN:NE2	2.85	0.45
2:A:779:PRO:HB2	2:A:791:PHE:CZ	2.48	0.45
2:A:2434:GLY:O	2:A:2508:ARG:NE	2.45	0.45
2:A:2514:ASN:ND2	2:A:2516:ASP:HB3	2.31	0.45
2:A:2694:GLU:HG2	2:A:2695:LEU:N	2.31	0.45
2:A:2767:ALA:HB3	2:A:2857:PRO:HG3	1.97	0.45
2:A:2880:GLU:O	2:A:2884:ASN:HB2	2.16	0.45
2:A:3409:TYR:OH	2:A:3441:ILE:HG21	2.16	0.45
2:A:4574:ASN:ND2	2:A:4810:ALA:HA	2.31	0.45
2:G:652:ARG:HD2	2:G:750:LEU:HD13	1.97	0.45
2:G:816:LEU:HD21	2:G:851:PHE:HE2	1.82	0.45
2:G:2585:THR:HA	2:G:2588:ARG:NH1	2.31	0.45
2:G:4701:TRP:HA	2:G:4704:LEU:HD23	1.97	0.45
2:G:4863:TYR:HB2	2:G:4874:MET:CE	2.46	0.45
2:B:929:LEU:HA	2:B:932:LEU:HG	1.99	0.45
2:B:988:LEU:HD12	2:B:988:LEU:HA	1.80	0.45
2:B:1008:SER:O	2:B:1019:PRO:HA	2.15	0.45
2:B:2736:ASP:OD2	2:B:2738:ARG:NH2	2.47	0.45
2:B:3365:LEU:HA	2:B:3368:ARG:HG2	1.98	0.45
2:B:3771:HIS:CD2	2:B:3812:VAL:HG22	2.52	0.45
2:B:4067:LYS:HE3	2:B:4169:SER:HB2	1.97	0.45
2:B:4683:PHE:CE2	2:B:5017:ARG:HG3	2.51	0.45
2:I:581:ASN:OD1	2:I:582:HIS:N	2.49	0.45
2:I:2487:GLN:NE2	2:I:2545:GLU:OE2	2.44	0.45
2:I:2883:HIS:NE2	2:I:2906:VAL:O	2.39	0.45
2:A:887:ILE:HG12	2:A:958:THR:HG23	1.99	0.45
2:A:1270:LEU:HD21	2:A:1591:CYS:SG	2.56	0.45
2:A:1692:ALA:O	2:A:1693:GLN:C	2.59	0.45
2:A:2558:VAL:O	2:A:2562:ILE:HG13	2.15	0.45
2:A:3545:THR:O	2:A:3548:GLU:N	2.49	0.45
2:A:3771:HIS:CD2	2:A:3812:VAL:HG22	2.52	0.45
2:A:3903:LEU:HD22	2:A:3915:ILE:HG21	1.98	0.45
2:A:4066:LEU:HD11	2:A:4173:TYR:HB3	1.98	0.45
2:A:4210:VAL:O	2:A:4214:LYS:HG2	2.17	0.45
2:A:4217:PHE:O	2:A:4220:ASP:N	2.50	0.45
2:A:4699:GLY:O	2:A:4703:ARG:HG3	2.15	0.45
2:A:4701:TRP:HA	2:A:4704:LEU:HD23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:849:THR:O	2:G:851:PHE:N	2.50	0.45
2:G:1464:PHE:CE1	2:G:1553:PHE:HD2	2.34	0.45
2:G:2750[A]:LYS:O	2:G:2935:TYR:OH	2.33	0.45
2:G:3274:LEU:HD21	2:G:3319:ILE:HD12	1.98	0.45
2:G:3771:HIS:CD2	2:G:3812:VAL:HG22	2.52	0.45
2:G:3888:LEU:HD13	2:G:3891:LEU:HD12	1.97	0.45
2:G:4156:HIS:HA	2:G:4161:ARG:HH12	1.80	0.45
2:G:4217:PHE:O	2:G:4220:ASP:N	2.49	0.45
2:B:78:LEU:HD23	2:B:82:LEU:HD23	1.99	0.45
2:B:130:LYS:HD2	2:B:130:LYS:HA	1.69	0.45
2:B:1420:ASN:OD1	2:B:1421:ARG:N	2.47	0.45
2:B:1552:VAL:HG21	2:B:1562:ILE:CD1	2.47	0.45
2:B:2641:LEU:O	2:B:2644:LEU:HG	2.17	0.45
2:B:3078:ARG:CG	2:B:3079:THR:H	2.30	0.45
2:B:3320:LEU:O	2:B:3324:VAL:HG23	2.16	0.45
2:B:3419:ASN:OD1	2:B:3422:HIS:HB3	2.16	0.45
2:B:3545:THR:O	2:B:3548:GLU:N	2.49	0.45
2:B:4150:LEU:HD23	2:B:4150:LEU:HA	1.82	0.45
2:I:215:THR:H	2:I:218:HIS:CE1	2.34	0.45
2:I:451:TYR:CZ	2:I:474:ARG:HD2	2.50	0.45
2:I:1433:TYR:CE1	2:I:1573:MET:HB2	2.52	0.45
2:I:2534:ALA:HB3	2:I:2588:ARG:HE	1.81	0.45
2:I:3096:PHE:HD2	2:I:3161:VAL:HG13	1.81	0.45
2:I:3455:GLU:OE1	2:I:3510:ILE:HD11	2.16	0.45
2:I:4034:ASN:OD1	2:I:4040:ILE:HB	2.15	0.45
2:I:4221:VAL:HG23	2:I:4230:LYS:HZ3	1.82	0.45
1:F:9:PRO:HD3	2:A:736:HIS:HB2	1.98	0.45
2:A:1047:LEU:O	2:A:1049:TYR:N	2.49	0.45
2:A:2458:ARG:HA	2:A:2510:TYR:CE1	2.51	0.45
2:A:2585:THR:HA	2:A:2588:ARG:NH1	2.31	0.45
2:A:2959:PHE:O	2:A:2963:LEU:HD23	2.16	0.45
2:A:3389:GLU:OE2	2:A:3392:LEU:HD12	2.17	0.45
2:A:3877:ASP:OD2	2:A:3877:ASP:N	2.48	0.45
2:A:3946:GLN:O	2:A:3949:ARG:HD3	2.17	0.45
2:A:4080:TYR:HD2	2:A:4096:ALA:HA	1.81	0.45
2:G:123:THR:OG1	2:G:134:ASP:OD2	2.34	0.45
2:G:546:TRP:O	2:G:549:SER:OG	2.32	0.45
2:G:1059:GLU:OE1	2:G:1059:GLU:N	2.49	0.45
2:G:2534:ALA:HB3	2:G:2588:ARG:HE	1.81	0.45
2:G:3944:GLU:HG3	2:G:3947:GLY:H	1.81	0.45
2:G:4097:MET:HE1	2:G:4111:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4232:GLU:HG2	2:G:5022:PHE:CZ	2.51	0.45
2:G:4574:ASN:ND2	2:G:4810:ALA:HA	2.31	0.45
2:B:2558:VAL:O	2:B:2562:ILE:HG13	2.15	0.45
2:B:3873:LYS:HE3	2:B:3873:LYS:HB3	1.45	0.45
2:B:4062:PHE:HZ	2:B:4143:VAL:HG11	1.80	0.45
2:I:206:CYS:HB2	2:I:271:GLY:HA3	1.99	0.45
2:I:2207:VAL:HG22	2:I:2232:CYS:SG	2.57	0.45
2:I:2419:GLY:HA2	2:I:2422:ILE:HB	1.98	0.45
2:I:3419:ASN:OD1	2:I:3422:HIS:HB3	2.16	0.45
2:I:4021:LYS:HA	2:I:4142:ASN:HD21	1.81	0.45
2:I:4097:MET:HE1	2:I:4111:LEU:HD12	1.98	0.45
2:A:909:ASN:ND2	2:A:912:SER:OG	2.50	0.45
2:A:3320:LEU:O	2:A:3324:VAL:HG23	2.16	0.45
2:A:4576:ILE:HD12	2:A:4646:LEU:HD12	1.97	0.45
2:A:5011:TRP:CE2	2:A:5015:GLN:NE2	2.85	0.45
2:G:134:ASP:N	2:G:134:ASP:OD1	2.50	0.45
2:G:929:LEU:HA	2:G:932:LEU:HG	1.99	0.45
2:G:1286:MET:HE2	2:G:1286:MET:HB3	1.78	0.45
2:G:1821:ASP:C	2:G:1824:GLN:H	2.24	0.45
2:G:2159:LEU:HD13	2:G:2203:MET:SD	2.56	0.45
2:G:2487:GLN:NE2	2:G:2545:GLU:OE2	2.44	0.45
2:G:3078:ARG:CG	2:G:3079:THR:H	2.30	0.45
2:G:3320:LEU:O	2:G:3324:VAL:HG23	2.16	0.45
2:G:3409:TYR:OH	2:G:3441:ILE:HG21	2.16	0.45
2:G:4844:LEU:HD11	2:G:4924:VAL:HG13	1.97	0.45
2:G:4986:ALA:HB1	2:G:4990:PHE:CZ	2.52	0.45
2:B:158:SER:H	2:B:161:GLU:CD	2.21	0.45
2:B:849:THR:O	2:B:851:PHE:N	2.50	0.45
2:B:1047:LEU:O	2:B:1049:TYR:N	2.49	0.45
2:B:1433:TYR:CE2	2:B:1578:ALA:HB2	2.51	0.45
2:B:1577:ALA:O	2:B:1584:ARG:NE	2.45	0.45
2:B:2419:GLY:HA2	2:B:2422:ILE:HB	1.98	0.45
2:B:3284:TRP:HA	2:B:3287:ARG:HH21	1.81	0.45
2:B:3326:ASN:OD1	2:B:3329:ILE:HB	2.16	0.45
2:B:3904:ARG:HB2	2:B:3914:ASN:ND2	2.31	0.45
2:B:3958:ALA:O	2:B:3962:PHE:CD2	2.70	0.45
2:B:4183:ILE:HD12	2:B:4183:ILE:HA	1.89	0.45
2:B:4730:ASP:OD1	2:B:4730:ASP:N	2.50	0.45
2:B:4986:ALA:HB1	2:B:4990:PHE:CZ	2.52	0.45
2:B:5011:TRP:CE2	2:B:5015:GLN:NE2	2.85	0.45
2:I:233:ILE:HD12	2:I:242:ARG:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:652:ARG:HD2	2:I:750:LEU:HD13	1.97	0.45
2:I:909:ASN:ND2	2:I:912:SER:OG	2.50	0.45
2:I:1577:ALA:O	2:I:1584:ARG:NE	2.45	0.45
2:I:2913:ALA:HA	2:I:2916:LYS:HB2	1.99	0.45
2:I:3045:LYS:O	2:I:3049:LEU:HG	2.15	0.45
2:I:3903:LEU:HD22	2:I:3915:ILE:HG21	1.98	0.45
2:I:3904:ARG:HB2	2:I:3914:ASN:ND2	2.31	0.45
2:I:3958:ALA:O	2:I:3962:PHE:CD2	2.70	0.45
2:I:4066:LEU:HD11	2:I:4173:TYR:HB3	1.98	0.45
2:I:4156:HIS:HA	2:I:4161:ARG:HH12	1.80	0.45
2:I:4175:ARG:HG2	2:I:4175:ARG:HH21	1.82	0.45
2:A:659:TYR:HB2	2:A:1017:ARG:HH12	1.81	0.45
2:A:929:LEU:HA	2:A:932:LEU:HG	1.99	0.45
2:A:1552:VAL:HG21	2:A:1562:ILE:CD1	2.47	0.45
2:A:2474:LEU:HD23	2:A:2499:LYS:HZ3	1.81	0.45
2:A:2750[A]:LYS:O	2:A:2935:TYR:OH	2.33	0.45
2:A:3206:LEU:HA	2:A:3246:LEU:CD2	2.42	0.45
2:A:3372:VAL:HG11	2:A:3397:GLU:OE1	2.17	0.45
2:G:206:CYS:HB2	2:G:271:GLY:HA3	1.99	0.45
2:G:779:PRO:HB2	2:G:791:PHE:CZ	2.48	0.45
2:G:1552:VAL:HG21	2:G:1562:ILE:CD1	2.47	0.45
2:G:1575:LEU:HD23	2:G:1575:LEU:HA	1.76	0.45
2:G:2018:GLU:OE1	2:G:2018:GLU:N	2.49	0.45
2:G:2641:LEU:O	2:G:2644:LEU:HG	2.17	0.45
2:G:3916:ILE:O	2:G:3920:VAL:HG23	2.17	0.45
2:G:4120:ASN:OD1	2:G:4122:MET:HB3	2.17	0.45
2:G:4843:LEU:HB2	2:I:4823:LEU:CD1	2.45	0.45
2:B:38:ALA:HB2	2:B:65:CYS:SG	2.57	0.45
2:B:181:HIS:HA	2:B:198:THR:HG21	1.99	0.45
2:B:839:LEU:O	2:B:1194:LEU:HD22	2.17	0.45
2:B:1270:LEU:HD21	2:B:1591:CYS:SG	2.56	0.45
2:B:2238:TYR:HA	2:B:2241:ARG:NH2	2.31	0.45
2:B:2531:ARG:HA	2:B:2588:ARG:NH2	2.26	0.45
2:B:2767:ALA:HB3	2:B:2857:PRO:HG3	1.97	0.45
2:B:3389:GLU:OE2	2:B:3392:LEU:HD12	2.17	0.45
2:I:134:ASP:OD1	2:I:134:ASP:N	2.50	0.45
2:I:943:ASP:OD1	2:I:945:LYS:HE3	2.16	0.45
2:I:2514:ASN:ND2	2:I:2516:ASP:HB3	2.31	0.45
2:I:3771:HIS:CD2	2:I:3812:VAL:HG22	2.52	0.45
2:I:3989:VAL:CG1	2:I:4023:MET:HE2	2.46	0.45
2:I:4210:VAL:O	2:I:4214:LYS:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:38:ALA:HB2	2:A:65:CYS:SG	2.57	0.45
2:A:2954:ARG:HB3	2:A:2957:PHE:CB	2.46	0.45
2:A:3078:ARG:CG	2:A:3079:THR:H	2.30	0.45
2:A:3889:GLN:HG3	2:A:3967:GLU:HG2	1.98	0.45
2:G:158:SER:H	2:G:161:GLU:CD	2.21	0.45
2:G:181:HIS:HA	2:G:198:THR:HG21	1.99	0.45
2:G:215:THR:H	2:G:218:HIS:CE1	2.34	0.45
2:G:909:ASN:ND2	2:G:912:SER:OG	2.50	0.45
2:G:1270:LEU:HD21	2:G:1591:CYS:SG	2.56	0.45
2:G:2478:THR:HB	2:G:2487:GLN:H	1.82	0.45
2:G:3553:LEU:HD13	2:G:3596:VAL:HG13	1.98	0.45
2:G:3994:HIS:CE1	2:G:3998:HIS:CE1	3.05	0.45
2:G:4217:PHE:CD2	2:G:4234:PHE:CD2	3.05	0.45
2:G:4923:PHE:HA	2:G:4927:ILE:HD11	1.99	0.45
2:B:123:THR:OG1	2:B:134:ASP:OD2	2.34	0.45
2:B:392:ARG:HD2	2:B:393:CYS:H	1.82	0.45
2:B:2207:VAL:HG22	2:B:2232:CYS:SG	2.57	0.45
2:B:2585:THR:HA	2:B:2588:ARG:NH1	2.31	0.45
2:B:2913:ALA:HA	2:B:2916:LYS:HB2	1.99	0.45
2:B:2976:HIS:O	2:B:2980:VAL:HG23	2.16	0.45
2:B:4217:PHE:O	2:B:4220:ASP:N	2.49	0.45
2:B:4823:LEU:CD1	2:I:4843:LEU:HD22	2.46	0.45
2:I:1147:ASP:HB3	2:I:1164:LEU:HD11	1.98	0.45
2:I:1270:LEU:HD21	2:I:1591:CYS:SG	2.56	0.45
2:I:1433:TYR:CE2	2:I:1578:ALA:HB2	2.51	0.45
2:I:1464:PHE:CE1	2:I:1553:PHE:HD2	2.34	0.45
2:I:1552:VAL:HG21	2:I:1562:ILE:CD1	2.47	0.45
2:I:3389:GLU:OE2	2:I:3392:LEU:HD12	2.17	0.45
2:I:4730:ASP:N	2:I:4730:ASP:OD1	2.50	0.45
2:A:181:HIS:HA	2:A:198:THR:HG21	1.99	0.45
2:A:426:ARG:HB3	2:A:431:PRO:HA	1.99	0.45
2:A:774:ASP:OD1	2:A:774:ASP:N	2.47	0.45
2:A:1221:GLU:OE1	2:A:1221:GLU:N	2.50	0.45
2:A:2694:GLU:O	2:A:2698:MET:HG3	2.17	0.45
2:A:2883:HIS:NE2	2:A:2906:VAL:O	2.39	0.45
2:A:2902:HIS:HB2	2:A:2905:LEU:HB2	1.99	0.45
2:A:2951:ILE:H	2:A:2951:ILE:HD12	1.82	0.45
2:A:3904:ARG:HB2	2:A:3914:ASN:ND2	2.31	0.45
2:G:38:ALA:HB2	2:G:65:CYS:SG	2.57	0.45
2:G:883:ALA:HA	2:G:904:HIS:CE1	2.52	0.45
2:G:2207:VAL:HG22	2:G:2232:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2624:ARG:O	2:G:2627:VAL:HB	2.17	0.45
2:G:2902:HIS:HB2	2:G:2905:LEU:HB2	1.99	0.45
2:G:3054:VAL:HG22	2:G:3131:TYR:CG	2.52	0.45
2:G:3958:ALA:O	2:G:3962:PHE:CD2	2.70	0.45
2:G:4080:TYR:HD2	2:G:4096:ALA:HA	1.81	0.45
2:B:816:LEU:HD21	2:B:851:PHE:HE2	1.82	0.45
2:B:1821:ASP:C	2:B:1824:GLN:H	2.24	0.45
2:B:2954:ARG:HB3	2:B:2957:PHE:CB	2.46	0.45
2:B:3171:SER:O	2:B:3174:SER:OG	2.32	0.45
2:B:3531:ASP:OD1	2:B:3532:LEU:N	2.46	0.45
2:B:4021:LYS:HA	2:B:4142:ASN:HD21	1.81	0.45
2:B:4175:ARG:HH21	2:B:4175:ARG:HG2	1.82	0.45
2:B:4204:GLN:CB	2:B:4245:MET:HE3	2.47	0.45
2:B:4217:PHE:CD2	2:B:4234:PHE:CD2	3.05	0.45
2:I:839:LEU:O	2:I:1194:LEU:HD22	2.17	0.45
2:I:929:LEU:HA	2:I:932:LEU:HG	1.99	0.45
2:I:1942:LEU:HD23	2:I:1942:LEU:HA	1.83	0.45
2:I:2228:MET:HE2	2:I:2228:MET:HB2	1.85	0.45
2:I:2894:LEU:O	2:I:2898:GLY:N	2.48	0.45
2:I:2902:HIS:HB2	2:I:2905:LEU:HB2	1.99	0.45
2:I:2967:MET:HE2	2:I:3045:LYS:HB3	1.98	0.45
2:I:3781:GLN:O	2:I:3784:SER:OG	2.32	0.45
2:I:3946:GLN:O	2:I:3949:ARG:HD3	2.17	0.45
2:I:4574:ASN:ND2	2:I:4810:ALA:HA	2.31	0.45
2:A:3400:VAL:HG13	2:A:3403:ARG:HH22	1.81	0.44
2:A:3994:HIS:CE1	2:A:3998:HIS:CE1	3.05	0.44
2:A:4157:ASP:N	2:A:4161:ARG:NH1	2.62	0.44
2:A:4730:ASP:OD1	2:A:4730:ASP:N	2.50	0.44
2:G:2215:LEU:HD23	2:G:2215:LEU:HA	1.87	0.44
2:G:2976:HIS:O	2:G:2980:VAL:HG23	2.16	0.44
2:G:3365:LEU:HA	2:G:3368:ARG:HG2	1.98	0.44
2:G:4023:MET:HE3	2:G:4026:MET:HB2	2.00	0.44
2:G:5011:TRP:CE2	2:G:5015:GLN:NE2	2.85	0.44
2:B:783:PHE:HB2	2:B:787:VAL:HG21	1.99	0.44
2:B:960:MET:HE3	2:B:960:MET:HB2	1.82	0.44
2:B:2478:THR:HB	2:B:2487:GLN:H	1.82	0.44
2:B:2694:GLU:O	2:B:2698:MET:HG3	2.17	0.44
2:B:3368:ARG:HH11	2:B:3368:ARG:HG3	1.83	0.44
2:B:3781:GLN:O	2:B:3784:SER:OG	2.32	0.44
2:B:4210:VAL:O	2:B:4214:LYS:HG2	2.17	0.44
2:I:123:THR:OG1	2:I:134:ASP:OD2	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2159:LEU:HD13	2:I:2203:MET:SD	2.56	0.44
2:I:2273:LEU:HD21	2:I:2331:TYR:HA	2.00	0.44
2:I:2989:SER:O	2:I:2989:SER:OG	2.35	0.44
2:I:4217:PHE:CD2	2:I:4234:PHE:CD2	3.05	0.44
2:I:4923:PHE:HA	2:I:4927:ILE:HD11	1.99	0.44
1:F:52:LYS:HE2	1:F:52:LYS:HB3	1.76	0.44
2:A:123:THR:OG1	2:A:134:ASP:OD2	2.34	0.44
2:A:669:ASP:CG	2:A:790:ARG:HH12	2.23	0.44
2:A:682:LEU:HA	2:A:782:SER:O	2.18	0.44
2:A:960:MET:HE3	2:A:960:MET:HB2	1.82	0.44
2:A:1977:TYR:HE1	2:A:1981:MET:HE2	1.81	0.44
2:A:2238:TYR:HA	2:A:2241:ARG:NH2	2.31	0.44
2:A:2960:LEU:HD22	2:A:3042:LEU:HD11	1.98	0.44
2:A:4120:ASN:OD1	2:A:4122:MET:HB3	2.17	0.44
2:A:4217:PHE:CD2	2:A:4234:PHE:CD2	3.05	0.44
2:A:4953:ASP:HA	2:A:4956:THR:HG22	2.00	0.44
2:G:78:LEU:HD23	2:G:82:LEU:HD23	1.98	0.44
2:G:2821:TRP:CZ3	2:G:2874:MET:HB2	2.53	0.44
2:G:2880:GLU:HG2	2:G:2908:TYR:HB3	1.97	0.44
2:G:2883:HIS:NE2	2:G:2906:VAL:O	2.39	0.44
2:G:2967:MET:HE2	2:G:3045:LYS:HB3	1.98	0.44
2:G:3419:ASN:OD1	2:G:3422:HIS:HB3	2.16	0.44
2:G:3873:LYS:HB3	2:G:3873:LYS:HE3	1.45	0.44
2:G:3951:PHE:CD2	2:G:4012:LEU:HD21	2.49	0.44
2:G:4210:VAL:O	2:G:4214:LYS:HG2	2.17	0.44
2:B:883:ALA:HA	2:B:904:HIS:CE1	2.52	0.44
2:B:1221:GLU:N	2:B:1221:GLU:OE1	2.50	0.44
2:B:2299:VAL:HG11	2:B:2356:LEU:HG	1.99	0.44
2:B:2960:LEU:HD22	2:B:3042:LEU:HD11	1.98	0.44
2:B:3352:GLU:OE1	2:B:3352:GLU:N	2.41	0.44
2:B:3877:ASP:OD2	2:B:3877:ASP:N	2.48	0.44
2:I:38:ALA:HB2	2:I:65:CYS:SG	2.57	0.44
2:I:378:LEU:HD23	2:I:378:LEU:HA	1.85	0.44
2:I:590:LEU:HG	2:I:599:VAL:HG11	1.99	0.44
2:I:783:PHE:HB2	2:I:787:VAL:HG21	2.00	0.44
2:I:959:TYR:CG	2:I:960:MET:N	2.85	0.44
2:I:2694:GLU:O	2:I:2698:MET:HG3	2.17	0.44
2:I:3158:LEU:O	2:I:3162:GLN:NE2	2.50	0.44
2:I:3274:LEU:HD21	2:I:3319:ILE:HD12	1.98	0.44
2:A:78:LEU:HD23	2:A:82:LEU:HD23	1.99	0.44
2:A:353:SER:O	2:A:355:LEU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:816:LEU:HD21	2:A:851:PHE:HE2	1.82	0.44
2:A:849:THR:O	2:A:851:PHE:N	2.50	0.44
2:A:2170:MET:HB2	2:A:2170:MET:HE3	1.65	0.44
2:A:2207:VAL:HG22	2:A:2232:CYS:SG	2.57	0.44
2:A:4843:LEU:HB2	2:G:4823:LEU:CD1	2.44	0.44
2:G:2299:VAL:HG11	2:G:2356:LEU:HG	1.99	0.44
2:G:2821:TRP:CD1	2:G:2939:ARG:HG3	2.53	0.44
2:G:3171:SER:O	2:G:3174:SER:OG	2.32	0.44
2:G:3372:VAL:HG11	2:G:3397:GLU:OE1	2.17	0.44
2:G:3788:GLY:HA2	2:G:3835:LEU:HD22	1.99	0.44
2:G:3946:GLN:O	2:G:3949:ARG:HD3	2.17	0.44
2:G:3989:VAL:CG1	2:G:4023:MET:HE2	2.46	0.44
2:B:682:LEU:HA	2:B:782:SER:O	2.18	0.44
2:B:3575:LEU:HD21	2:I:1208:VAL:HG12	2.00	0.44
2:B:3951:PHE:CD2	2:B:4012:LEU:HD21	2.49	0.44
2:B:4232:GLU:HG2	2:B:5022:PHE:CZ	2.51	0.44
2:B:4923:PHE:HA	2:B:4927:ILE:HD11	1.99	0.44
2:I:426:ARG:HB3	2:I:431:PRO:HA	1.99	0.44
2:I:849:THR:O	2:I:851:PHE:N	2.50	0.44
2:I:1221:GLU:OE1	2:I:1221:GLU:N	2.50	0.44
2:I:1469:VAL:HG23	2:I:1492:CYS:HB3	1.99	0.44
2:I:2641:LEU:O	2:I:2644:LEU:HG	2.17	0.44
2:I:2749:GLU:OE2	2:I:2749:GLU:N	2.46	0.44
2:I:3037:GLU:OE2	2:I:3078:ARG:NH2	2.50	0.44
2:I:3409:TYR:OH	2:I:3441:ILE:HG21	2.16	0.44
2:I:3916:ILE:O	2:I:3920:VAL:HG23	2.17	0.44
2:I:4023:MET:HE3	2:I:4026:MET:HB2	2.00	0.44
2:I:4080:TYR:HD2	2:I:4096:ALA:HA	1.81	0.44
2:A:1433:TYR:CE1	2:A:1573:MET:HB2	2.52	0.44
2:A:1433:TYR:CE2	2:A:1578:ALA:HB2	2.51	0.44
2:A:1733:GLU:OE1	2:A:1733:GLU:N	2.51	0.44
2:A:2285:GLU:HG2	2:A:2286:LEU:N	2.33	0.44
2:A:2478:THR:HB	2:A:2487:GLN:H	1.82	0.44
2:A:2821:TRP:CD1	2:A:2939:ARG:HG3	2.53	0.44
2:A:4214:LYS:HD3	2:A:4234:PHE:CZ	2.53	0.44
2:A:4725:LEU:HD22	2:A:4743:MET:HE1	1.99	0.44
2:A:4986:ALA:HB1	2:A:4990:PHE:CZ	2.52	0.44
2:G:2285:GLU:HG2	2:G:2286:LEU:N	2.33	0.44
2:G:4148:THR:O	2:G:4151:SER:N	2.51	0.44
2:B:1942:LEU:HD23	2:B:1942:LEU:HA	1.83	0.44
2:B:2534:ALA:HB3	2:B:2588:ARG:HE	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2624:ARG:NH2	2:B:2906:VAL:HG21	2.32	0.44
2:B:2821:TRP:CZ3	2:B:2874:MET:HB2	2.53	0.44
2:B:2902:HIS:HB2	2:B:2905:LEU:HB2	1.99	0.44
2:B:3206:LEU:HA	2:B:3246:LEU:CD2	2.42	0.44
2:B:3409:TYR:OH	2:B:3441:ILE:HG21	2.16	0.44
2:B:3984:ARG:NH1	2:B:3986:TRP:HB2	2.29	0.44
2:B:4990:PHE:HD1	2:B:4993:MET:HE2	1.82	0.44
2:I:1821:ASP:C	2:I:1824:GLN:H	2.24	0.44
2:I:2121:PHE:CZ	2:I:3701:LEU:HB2	2.53	0.44
2:I:2439:GLU:O	2:I:2443:ILE:HG12	2.18	0.44
2:I:2531:ARG:HA	2:I:2588:ARG:NH2	2.26	0.44
2:I:2821:TRP:CZ3	2:I:2874:MET:HB2	2.53	0.44
2:I:3525:CYS:HA	2:I:3595:ARG:HH12	1.81	0.44
2:I:3994:HIS:CE1	2:I:3998:HIS:CE1	3.05	0.44
2:I:5012:LYS:O	2:I:5015:GLN:N	2.51	0.44
2:A:783:PHE:HB2	2:A:787:VAL:HG21	2.00	0.44
2:A:3054:VAL:HG22	2:A:3131:TYR:CG	2.52	0.44
2:A:3071:LEU:O	2:A:3075:LEU:N	2.51	0.44
2:A:4023:MET:HE3	2:A:4026:MET:HB2	2.00	0.44
2:A:4175:ARG:HA	2:A:4178:LEU:HG	2.00	0.44
2:A:4923:PHE:HA	2:A:4927:ILE:HD11	1.99	0.44
2:G:426:ARG:HB3	2:G:431:PRO:HA	1.99	0.44
2:G:1221:GLU:N	2:G:1221:GLU:OE1	2.50	0.44
2:G:2273:LEU:HD21	2:G:2331:TYR:HA	2.00	0.44
2:G:2647:HIS:O	2:G:2651:CYS:N	2.34	0.44
2:G:2912:THR:O	2:G:2916:LYS:N	2.46	0.44
2:G:3050:VAL:HG13	2:G:3050:VAL:O	2.17	0.44
2:G:3143:LEU:O	2:G:3147:ILE:HG12	2.18	0.44
2:G:3534:MET:HA	2:G:3537:LYS:HD3	1.99	0.44
2:G:3889:GLN:HG3	2:G:3967:GLU:HG2	1.98	0.44
2:B:418:LEU:HD13	2:B:493:ARG:HB3	1.98	0.44
2:B:3054:VAL:HG22	2:B:3131:TYR:CG	2.52	0.44
2:B:3889:GLN:HG3	2:B:3967:GLU:HG2	1.98	0.44
2:B:3994:HIS:CE1	2:B:3998:HIS:CE1	3.05	0.44
2:B:4214:LYS:HD3	2:B:4234:PHE:CZ	2.53	0.44
2:B:4844:LEU:HD11	2:B:4924:VAL:HG13	1.97	0.44
2:B:5012:LYS:O	2:B:5015:GLN:N	2.51	0.44
2:I:392:ARG:HD2	2:I:393:CYS:H	1.82	0.44
2:I:883:ALA:HA	2:I:904:HIS:CE1	2.52	0.44
2:I:2467:VAL:HG12	2:I:2521:VAL:HG22	2.00	0.44
2:I:2750[B]:LYS:O	2:I:2935:TYR:OH	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3143:LEU:O	2:I:3147:ILE:HG12	2.18	0.44
2:I:3531:ASP:OD1	2:I:3532:LEU:N	2.46	0.44
2:I:4967:TYR:HD2	2:I:4968:PHE:CE1	2.36	0.44
1:F:26:TYR:HD1	1:F:26:TYR:H	1.66	0.44
2:A:418:LEU:HD13	2:A:493:ARG:HB3	1.98	0.44
2:A:2475:GLN:OE1	2:A:2493:SER:OG	2.17	0.44
2:A:2534:ALA:HB3	2:A:2588:ARG:HE	1.81	0.44
2:A:4080:TYR:CE2	2:A:4095:LYS:HB3	2.53	0.44
2:G:1469:VAL:HG23	2:G:1492:CYS:HB3	1.99	0.44
2:G:1573:MET:HE2	2:G:1573:MET:HB3	1.87	0.44
2:G:1820:ARG:HD2	2:G:1820:ARG:HA	1.69	0.44
2:G:3835:LEU:HD12	2:G:3880:PHE:CZ	2.53	0.44
2:G:3903:LEU:HD22	2:G:3915:ILE:HG21	1.98	0.44
2:G:4175:ARG:HH21	2:G:4175:ARG:HG2	1.82	0.44
2:B:104:GLY:N	2:B:150:MET:HB3	2.30	0.44
2:B:317:ARG:HH12	2:B:323:LEU:HA	1.83	0.44
2:B:931:THR:O	2:B:935:LEU:HD13	2.17	0.44
2:B:1433:TYR:CE1	2:B:1573:MET:HB2	2.52	0.44
2:B:1987:SER:OG	2:B:1987:SER:O	2.34	0.44
2:B:2672:LEU:HD23	2:B:2672:LEU:HA	1.85	0.44
2:B:3037:GLU:OE2	2:B:3078:ARG:NH2	2.50	0.44
2:B:4863:TYR:HB2	2:B:4874:MET:CE	2.47	0.44
2:B:4967:TYR:HD2	2:B:4968:PHE:CE1	2.35	0.44
2:I:181:HIS:HA	2:I:198:THR:HG21	1.99	0.44
2:I:2960:LEU:HD22	2:I:3042:LEU:HD11	1.98	0.44
2:I:3534:MET:HA	2:I:3537:LYS:HD3	1.99	0.44
2:I:3835:LEU:HD12	2:I:3880:PHE:CZ	2.53	0.44
2:I:4990:PHE:HD1	2:I:4993:MET:HE2	1.82	0.44
2:A:67:PHE:HE1	2:A:111:HIS:CD2	2.36	0.44
2:A:378:LEU:HD23	2:A:378:LEU:HA	1.85	0.44
2:A:2624:ARG:O	2:A:2627:VAL:HB	2.18	0.44
2:A:2913:ALA:HA	2:A:2916:LYS:HB2	1.99	0.44
2:A:3534:MET:HA	2:A:3537:LYS:HD3	1.99	0.44
2:A:3958:ALA:O	2:A:3962:PHE:CD2	2.70	0.44
2:A:4737:ILE:HA	2:A:4740:LEU:HD12	1.98	0.44
2:G:28:VAL:C	2:G:29:LEU:HD23	2.43	0.44
2:G:459:LEU:HD23	2:G:460:GLN:N	2.33	0.44
2:G:783:PHE:HB2	2:G:787:VAL:HG21	2.00	0.44
2:G:887:ILE:HG12	2:G:958:THR:HG23	1.98	0.44
2:G:1208:VAL:HG12	2:I:3575:LEU:HD21	2.00	0.44
2:G:1433:TYR:CE1	2:G:1573:MET:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1577:ALA:O	2:G:1584:ARG:NE	2.45	0.44
2:G:3983:SER:HB3	2:G:3985:LEU:HD22	2.00	0.44
2:G:4238:CYS:HB3	2:G:4989:MET:HG3	2.00	0.44
2:G:4730:ASP:OD1	2:G:4730:ASP:N	2.50	0.44
2:G:4737:ILE:HA	2:G:4740:LEU:HD12	1.98	0.44
2:B:1494:MET:HE1	2:B:1553:PHE:CE2	2.53	0.44
2:B:1733:GLU:OE1	2:B:1733:GLU:N	2.51	0.44
2:B:2273:LEU:HD21	2:B:2331:TYR:HA	2.00	0.44
2:B:4080:TYR:CE2	2:B:4095:LYS:HB3	2.53	0.44
2:I:130:LYS:HA	2:I:130:LYS:HD2	1.69	0.44
2:I:317:ARG:HH12	2:I:323:LEU:HA	1.83	0.44
2:I:515:TRP:CH2	2:I:555:GLU:HG2	2.53	0.44
2:I:971:ASP:OD1	2:I:971:ASP:N	2.51	0.44
2:I:2821:TRP:CD1	2:I:2939:ARG:HG3	2.53	0.44
2:I:3788:GLY:HA2	2:I:3835:LEU:HD22	1.99	0.44
2:I:3889:GLN:HG3	2:I:3967:GLU:HG2	1.98	0.44
2:I:4000:MET:HE2	2:I:4000:MET:HB2	1.85	0.44
2:I:4200:THR:O	2:I:4204:GLN:HG3	2.18	0.44
2:I:4238:CYS:HB3	2:I:4989:MET:HG3	2.00	0.44
2:A:459:LEU:HD23	2:A:460:GLN:N	2.33	0.44
2:A:2381:GLU:HA	2:A:2384:ILE:HG13	1.99	0.44
2:A:2439:GLU:O	2:A:2443:ILE:HG12	2.18	0.44
2:A:2467:VAL:HG12	2:A:2521:VAL:HG22	2.00	0.44
2:A:3368:ARG:HG3	2:A:3368:ARG:HH11	1.82	0.44
2:A:3465:ASN:C	2:A:3467:MET:H	2.26	0.44
2:A:4148:THR:O	2:A:4151:SER:N	2.51	0.44
2:A:4863:TYR:HB2	2:A:4874:MET:CE	2.46	0.44
2:G:317:ARG:HH12	2:G:323:LEU:HA	1.83	0.44
2:G:636:ASN:HB2	2:G:702:TRP:CZ3	2.53	0.44
2:G:931:THR:O	2:G:935:LEU:HD13	2.17	0.44
2:G:1236:THR:OG1	2:G:1608:MET:SD	2.74	0.44
2:G:2121:PHE:CZ	2:G:3701:LEU:HB2	2.53	0.44
2:G:2694:GLU:O	2:G:2698:MET:HG3	2.17	0.44
2:G:3842:LEU:HD12	2:G:3954:ALA:HB2	2.00	0.44
2:G:4999:ASP:OD2	2:G:5002:GLU:N	2.49	0.44
2:B:426:ARG:HB3	2:B:431:PRO:HA	1.99	0.44
2:B:459:LEU:HD23	2:B:460:GLN:N	2.33	0.44
2:B:909:ASN:ND2	2:B:912:SER:OG	2.50	0.44
2:B:1147:ASP:HB3	2:B:1164:LEU:HD11	1.98	0.44
2:B:2285:GLU:HG2	2:B:2286:LEU:N	2.33	0.44
2:B:2475:GLN:OE1	2:B:2493:SER:OG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3071:LEU:O	2:B:3075:LEU:N	2.51	0.44
2:B:4023:MET:HE3	2:B:4026:MET:HB2	2.00	0.44
2:B:4066:LEU:HD11	2:B:4173:TYR:HB3	1.98	0.44
2:I:418:LEU:HD13	2:I:493:ARG:HB3	1.98	0.44
2:I:816:LEU:HD21	2:I:851:PHE:HE2	1.82	0.44
2:I:1236:THR:OG1	2:I:1608:MET:SD	2.74	0.44
2:I:1494:MET:HE1	2:I:1553:PHE:CE2	2.53	0.44
2:I:1634:LEU:HD12	2:I:1634:LEU:HA	1.79	0.44
2:I:2478:THR:HB	2:I:2487:GLN:H	1.82	0.44
2:I:3054:VAL:HG22	2:I:3131:TYR:CG	2.52	0.44
2:I:3368:ARG:NH2	2:I:3401:LEU:HA	2.33	0.44
2:I:3877:ASP:N	2:I:3877:ASP:OD2	2.48	0.44
2:I:3983:SER:HB3	2:I:3985:LEU:HD22	2.00	0.44
2:A:839:LEU:O	2:A:1194:LEU:HD22	2.17	0.44
2:A:1494:MET:HE1	2:A:1553:PHE:CE2	2.53	0.44
2:A:3143:LEU:O	2:A:3147:ILE:HG12	2.18	0.44
2:A:3835:LEU:HD12	2:A:3880:PHE:CZ	2.53	0.44
2:A:4967:TYR:HD2	2:A:4968:PHE:CE1	2.35	0.44
2:G:590:LEU:HG	2:G:599:VAL:HG11	1.99	0.44
2:G:959:TYR:CG	2:G:960:MET:N	2.85	0.44
2:G:1494:MET:HE1	2:G:1553:PHE:CE2	2.53	0.44
2:G:1987:SER:OG	2:G:1987:SER:O	2.34	0.44
2:G:2439:GLU:O	2:G:2443:ILE:HG12	2.18	0.44
2:G:3368:ARG:HH11	2:G:3368:ARG:HG3	1.82	0.44
2:G:3389:GLU:OE2	2:G:3392:LEU:HD12	2.17	0.44
2:G:3465:ASN:C	2:G:3467:MET:H	2.26	0.44
2:G:4967:TYR:HD2	2:G:4968:PHE:CE1	2.35	0.44
2:B:206:CYS:HB2	2:B:271:GLY:HA3	1.99	0.44
2:B:3250:MET:HE1	2:B:3315:LEU:HB2	2.00	0.44
2:B:3835:LEU:HD12	2:B:3880:PHE:CZ	2.53	0.44
2:B:4157:ASP:N	2:B:4161:ARG:NH1	2.62	0.44
2:B:4892:ARG:HA	2:I:4921:PHE:CE2	2.53	0.44
2:I:667:MET:HG3	2:I:743:VAL:HG22	2.00	0.44
2:I:2624:ARG:O	2:I:2627:VAL:HB	2.17	0.44
2:I:2625:ARG:HA	2:I:2628:PHE:CE1	2.53	0.44
2:I:2976:HIS:O	2:I:2980:VAL:HG23	2.16	0.44
2:A:25:SER:OG	2:A:32:GLN:NE2	2.51	0.43
2:A:206:CYS:HB2	2:A:271:GLY:HA3	1.99	0.43
2:A:1152:MET:HB3	2:A:1223:PHE:CE2	2.53	0.43
2:A:1236:THR:OG1	2:A:1608:MET:SD	2.74	0.43
2:A:3050:VAL:O	2:A:3050:VAL:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3250:MET:HE1	2:A:3315:LEU:HB2	2.00	0.43
2:A:3436:ARG:NE	2:A:3598:GLU:OE1	2.30	0.43
2:A:4204:GLN:CB	2:A:4245:MET:HE3	2.47	0.43
2:A:4990:PHE:HD1	2:A:4993:MET:HE2	1.82	0.43
2:G:232:THR:OG1	2:G:248:GLU:OE2	2.30	0.43
2:G:353:SER:O	2:G:355:LEU:N	2.51	0.43
2:G:418:LEU:HD13	2:G:493:ARG:HB3	1.98	0.43
2:G:2381:GLU:HA	2:G:2384:ILE:HG13	1.99	0.43
2:G:4157:ASP:N	2:G:4161:ARG:NH1	2.62	0.43
2:B:590:LEU:HG	2:B:599:VAL:HG11	1.99	0.43
2:B:615:ARG:NH2	2:B:2168:VAL:HG21	2.28	0.43
2:B:3143:LEU:O	2:B:3147:ILE:HG12	2.18	0.43
2:B:3159:ASP:C	2:B:3161:VAL:H	2.26	0.43
2:B:3372:VAL:HG11	2:B:3397:GLU:OE1	2.17	0.43
2:B:3465:ASN:C	2:B:3467:MET:H	2.26	0.43
2:B:3534:MET:HA	2:B:3537:LYS:HD3	1.99	0.43
2:B:3788:GLY:HA2	2:B:3835:LEU:HD22	1.99	0.43
2:B:4953:ASP:HA	2:B:4956:THR:HG22	2.00	0.43
2:I:636:ASN:HB2	2:I:702:TRP:CZ3	2.53	0.43
2:I:931:THR:O	2:I:935:LEU:HD13	2.17	0.43
2:I:2299:VAL:HG11	2:I:2356:LEU:HG	1.99	0.43
2:I:3859:VAL:O	2:I:3859:VAL:HG13	2.18	0.43
2:A:107:ILE:HG23	2:A:150:MET:HE1	2.00	0.43
2:A:392:ARG:HD2	2:A:393:CYS:H	1.82	0.43
2:A:636:ASN:HB2	2:A:702:TRP:CZ3	2.53	0.43
2:A:883:ALA:HA	2:A:904:HIS:CE1	2.52	0.43
2:A:1208:VAL:HG12	2:G:3575:LEU:HD21	2.00	0.43
2:A:2273:LEU:HD21	2:A:2331:TYR:HA	2.00	0.43
2:A:3859:VAL:O	2:A:3859:VAL:HG13	2.18	0.43
2:G:392:ARG:HD2	2:G:393:CYS:H	1.82	0.43
2:G:682:LEU:HA	2:G:782:SER:O	2.18	0.43
2:G:935:LEU:HD11	2:G:991:ASN:ND2	2.33	0.43
2:G:1972:ASN:OD1	2:G:1973:GLN:N	2.51	0.43
2:G:2159:LEU:O	2:G:2163:ARG:HG2	2.18	0.43
2:G:3527:PRO:HA	2:G:3530:GLN:NE2	2.32	0.43
2:G:3825:GLU:HG3	2:G:3827:GLY:H	1.83	0.43
2:B:607:CYS:SG	2:B:1672:ALA:HB1	2.58	0.43
2:B:1469:VAL:HG23	2:B:1492:CYS:HB3	1.99	0.43
2:B:2599:GLN:O	2:B:2603:ILE:HG13	2.18	0.43
2:B:3018:LEU:HA	2:B:3036:LYS:HE3	2.01	0.43
2:B:3368:ARG:NH2	2:B:3401:LEU:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3946:GLN:O	2:B:3949:ARG:HD3	2.17	0.43
2:B:4201:ASN:HB3	2:B:4993:MET:CE	2.48	0.43
2:I:67:PHE:HE1	2:I:111:HIS:CD2	2.36	0.43
2:I:107:ILE:HG23	2:I:150:MET:HE1	2.00	0.43
2:I:462:GLU:HG2	2:I:463:GLU:OE2	2.18	0.43
2:I:682:LEU:HA	2:I:782:SER:O	2.18	0.43
2:I:2285:GLU:HG2	2:I:2286:LEU:N	2.33	0.43
2:I:2928:LYS:O	2:I:2932:MET:HG2	2.18	0.43
2:I:4080:TYR:CE2	2:I:4095:LYS:HB3	2.53	0.43
2:I:4686:LEU:HD12	2:I:4690:GLU:OE2	2.18	0.43
2:I:4953:ASP:HA	2:I:4956:THR:HG22	2.00	0.43
2:I:4986:ALA:HB1	2:I:4990:PHE:CZ	2.52	0.43
2:A:28:VAL:C	2:A:29:LEU:HD23	2.43	0.43
2:A:819:GLU:OE1	2:A:819:GLU:N	2.51	0.43
2:A:3007:ASN:HA	2:A:3070:ILE:HD11	2.00	0.43
2:A:3842:LEU:HD12	2:A:3954:ALA:HB2	1.99	0.43
2:A:3983:SER:HB3	2:A:3985:LEU:HD22	2.00	0.43
2:A:4983:HIS:HB2	3:A:5301:ATP:N6	2.10	0.43
2:A:5027:CYS:H	2:A:5030:LYS:HB3	1.83	0.43
2:G:839:LEU:O	2:G:1194:LEU:HD22	2.17	0.43
2:G:2531:ARG:HA	2:G:2588:ARG:NH2	2.26	0.43
2:G:2960:LEU:HD22	2:G:3042:LEU:HD11	1.98	0.43
2:G:3046:LEU:O	2:G:3050:VAL:N	2.49	0.43
2:G:3269:VAL:O	2:G:3273:THR:N	2.51	0.43
2:G:3368:ARG:NH2	2:G:3401:LEU:HA	2.33	0.43
2:G:4175:ARG:HA	2:G:4178:LEU:HG	2.00	0.43
2:G:4978:HIS:CE1	2:G:4982:GLU:OE1	2.71	0.43
2:G:5027:CYS:H	2:G:5030:LYS:HB3	1.84	0.43
2:B:67:PHE:HE1	2:B:111:HIS:CD2	2.36	0.43
2:B:860:GLN:OE1	2:B:860:GLN:N	2.52	0.43
2:B:2821:TRP:CD1	2:B:2939:ARG:HG3	2.53	0.43
2:B:2825:LYS:HG2	2:B:2935:TYR:CZ	2.54	0.43
2:B:3641:LEU:HD13	2:B:3641:LEU:HA	1.91	0.43
2:B:3983:SER:HB3	2:B:3985:LEU:HD22	2.00	0.43
2:B:5027:CYS:H	2:B:5030:LYS:HB3	1.84	0.43
2:I:887:ILE:HG12	2:I:958:THR:HG23	1.98	0.43
2:I:1692:ALA:O	2:I:1693:GLN:C	2.59	0.43
2:I:2580:ASP:CG	2:I:2621:HIS:HD1	2.26	0.43
2:I:2825:LYS:HG2	2:I:2935:TYR:CZ	2.53	0.43
2:I:3545:THR:O	2:I:3549:VAL:HG22	2.18	0.43
2:I:4148:THR:O	2:I:4151:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:5027:CYS:H	2:I:5030:LYS:HB3	1.84	0.43
2:A:515:TRP:CH2	2:A:555:GLU:HG2	2.53	0.43
2:A:590:LEU:HG	2:A:599:VAL:HG11	1.99	0.43
2:A:607:CYS:SG	2:A:1672:ALA:HB1	2.58	0.43
2:A:860:GLN:OE1	2:A:860:GLN:N	2.52	0.43
2:A:935:LEU:HD11	2:A:991:ASN:ND2	2.33	0.43
2:A:1720:LEU:O	2:A:1722:SER:N	2.47	0.43
2:A:2159:LEU:O	2:A:2163:ARG:HG2	2.18	0.43
2:A:2616:PRO:HD3	2:A:2650:ARG:HH22	1.84	0.43
2:A:2821:TRP:CZ3	2:A:2874:MET:HB2	2.53	0.43
2:A:3018:LEU:HA	2:A:3036:LYS:HE3	2.00	0.43
2:A:3283:ARG:NH2	2:A:3287:ARG:HH22	2.10	0.43
2:A:4586:PRO:HG3	2:A:4629:TYR:CE1	2.54	0.43
1:H:23:VAL:CG2	1:H:105:ASN:H	2.32	0.43
1:O:26:TYR:H	1:O:26:TYR:HD1	1.66	0.43
2:G:231:LEU:O	2:G:260:TRP:NE1	2.45	0.43
2:G:551:LEU:HD23	2:G:551:LEU:HA	1.83	0.43
2:G:2625:ARG:HA	2:G:2628:PHE:CE1	2.53	0.43
2:G:2913:ALA:HA	2:G:2916:LYS:HB2	1.99	0.43
2:G:3071:LEU:O	2:G:3075:LEU:N	2.51	0.43
2:G:4058:ILE:HA	2:G:4061:PHE:CD1	2.54	0.43
2:G:4725:LEU:HD22	2:G:4743:MET:HE1	1.99	0.43
2:G:5012:LYS:O	2:G:5015:GLN:N	2.51	0.43
2:B:107:ILE:CG2	2:B:150:MET:HE1	2.49	0.43
2:B:462:GLU:HG2	2:B:463:GLU:OE2	2.18	0.43
2:B:877:ASN:C	2:B:877:ASN:HD22	2.27	0.43
2:B:2439:GLU:O	2:B:2443:ILE:HG12	2.18	0.43
2:B:2474:LEU:HD23	2:B:2499:LYS:HZ3	1.82	0.43
2:B:2616:PRO:HD3	2:B:2650:ARG:HH22	1.84	0.43
2:B:3007:ASN:HA	2:B:3070:ILE:HD11	2.00	0.43
2:B:3768:SER:HA	2:B:3771:HIS:HB3	2.01	0.43
2:B:4725:LEU:HD22	2:B:4743:MET:HE1	1.99	0.43
2:B:4983:HIS:HB2	3:B:5301:ATP:N6	2.10	0.43
2:I:607:CYS:SG	2:I:1672:ALA:HB1	2.58	0.43
2:I:1738:LEU:HB3	2:I:1963:GLU:OE2	2.19	0.43
2:I:2298:VAL:HG21	2:I:2334:PHE:CD1	2.54	0.43
2:I:2641:LEU:HD11	2:I:2698:MET:SD	2.59	0.43
2:I:3050:VAL:O	2:I:3050:VAL:HG13	2.17	0.43
2:I:3070:ILE:O	2:I:3074:SER:N	2.46	0.43
2:I:3352:GLU:OE1	2:I:3352:GLU:N	2.41	0.43
2:I:3368:ARG:HG3	2:I:3368:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3374:ALA:O	2:I:3377:GLU:N	2.51	0.43
2:I:4058:ILE:HA	2:I:4061:PHE:CD1	2.54	0.43
2:A:931:THR:O	2:A:935:LEU:HD13	2.17	0.43
2:A:1297:PHE:HE1	2:A:1548:LEU:HD12	1.84	0.43
2:A:2608:MET:HB2	2:A:2608:MET:HE3	1.82	0.43
2:A:3159:ASP:C	2:A:3161:VAL:H	2.26	0.43
2:A:3283:ARG:O	2:A:3287:ARG:NE	2.52	0.43
2:A:3368:ARG:NH2	2:A:3401:LEU:HA	2.33	0.43
2:A:4058:ILE:HA	2:A:4061:PHE:CD1	2.54	0.43
2:A:4184:MET:HB3	2:A:5021:PHE:HA	2.01	0.43
2:G:515:TRP:CH2	2:G:555:GLU:HG2	2.53	0.43
2:G:1733:GLU:N	2:G:1733:GLU:OE1	2.51	0.43
2:G:1738:LEU:HB3	2:G:1963:GLU:OE2	2.19	0.43
2:G:3158:LEU:O	2:G:3162:GLN:NE2	2.50	0.43
2:G:3545:THR:O	2:G:3549:VAL:HG22	2.18	0.43
2:G:4201:ASN:HB3	2:G:4993:MET:CE	2.48	0.43
2:G:4586:PRO:HG3	2:G:4629:TYR:CE1	2.54	0.43
2:G:4939:ALA:O	2:G:4943:LEU:HD23	2.19	0.43
2:G:4953:ASP:HA	2:G:4956:THR:HG22	2.00	0.43
2:B:134:ASP:OD1	2:B:134:ASP:N	2.50	0.43
2:B:353:SER:O	2:B:355:LEU:N	2.51	0.43
2:B:935:LEU:HD11	2:B:991:ASN:ND2	2.33	0.43
2:B:1972:ASN:OD1	2:B:1973:GLN:N	2.52	0.43
2:B:2580:ASP:CG	2:B:2621:HIS:HD1	2.26	0.43
2:B:2624:ARG:O	2:B:2627:VAL:HB	2.18	0.43
2:B:2625:ARG:HA	2:B:2628:PHE:CE1	2.54	0.43
2:B:2641:LEU:HD11	2:B:2698:MET:SD	2.58	0.43
2:B:2743:LEU:HD12	2:B:2743:LEU:H	1.83	0.43
2:B:3545:THR:O	2:B:3549:VAL:HG22	2.18	0.43
2:B:3825:GLU:HG3	2:B:3827:GLY:H	1.83	0.43
2:I:107:ILE:CG2	2:I:150:MET:HE1	2.49	0.43
2:I:2024:PRO:HB2	2:I:2026:ASP:OD1	2.18	0.43
2:I:3036:LYS:HD2	2:I:3078:ARG:HD3	2.01	0.43
2:I:3380:ARG:NH2	2:I:3388:GLU:OE1	2.52	0.43
2:I:3842:LEU:HD12	2:I:3954:ALA:HB2	1.99	0.43
2:A:743:VAL:HG11	2:A:801:LYS:HB2	2.01	0.43
2:A:867:LEU:HG	2:A:929:LEU:HD13	2.00	0.43
2:A:870:ILE:O	2:A:874:LEU:HG	2.19	0.43
2:A:949:ASN:HB3	2:A:974:HIS:HE2	1.84	0.43
2:A:959:TYR:CG	2:A:960:MET:N	2.85	0.43
2:A:1137:GLU:OE1	2:A:1137:GLU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1469:VAL:HG23	2:A:1492:CYS:HB3	1.99	0.43
2:A:1738:LEU:HB3	2:A:1963:GLU:OE2	2.19	0.43
2:A:3637:ARG:HD2	2:A:3638:MET:H	1.84	0.43
2:A:4200:THR:O	2:A:4204:GLN:HG3	2.18	0.43
2:A:4939:ALA:O	2:A:4943:LEU:HD23	2.18	0.43
1:J:23:VAL:CG2	1:J:105:ASN:H	2.32	0.43
1:O:23:VAL:CG2	1:O:105:ASN:H	2.32	0.43
2:G:431:PRO:HB3	2:G:507:ALA:HA	2.00	0.43
2:G:819:GLU:N	2:G:819:GLU:OE1	2.51	0.43
2:G:2599:GLN:O	2:G:2603:ILE:HG13	2.18	0.43
2:G:2825:LYS:HG2	2:G:2935:TYR:CZ	2.53	0.43
2:G:3036:LYS:HD2	2:G:3078:ARG:HD3	2.01	0.43
2:G:3540:TYR:CE2	2:G:3549:VAL:HG11	2.54	0.43
2:B:107:ILE:HG23	2:B:150:MET:HE1	2.00	0.43
2:B:664:PHE:CE1	2:B:779:PRO:HB3	2.53	0.43
2:B:819:GLU:OE1	2:B:819:GLU:N	2.51	0.43
2:B:1137:GLU:OE1	2:B:1137:GLU:N	2.52	0.43
2:B:2121:PHE:CZ	2:B:3701:LEU:HB2	2.53	0.43
2:B:2467:VAL:HG12	2:B:2521:VAL:HG22	2.00	0.43
2:B:3380:ARG:NH2	2:B:3388:GLU:OE1	2.52	0.43
2:B:3903:LEU:HD23	2:B:3903:LEU:HA	1.80	0.43
2:I:459:LEU:HD23	2:I:460:GLN:N	2.33	0.43
2:I:870:ILE:O	2:I:874:LEU:HG	2.19	0.43
2:I:1288:PHE:HA	2:I:1553:PHE:CD1	2.54	0.43
2:I:1733:GLU:OE1	2:I:1733:GLU:N	2.51	0.43
2:I:1987:SER:OG	2:I:1987:SER:O	2.34	0.43
2:I:2599:GLN:O	2:I:2603:ILE:HG13	2.19	0.43
2:I:3018:LEU:HA	2:I:3036:LYS:HE3	2.01	0.43
2:I:3071:LEU:O	2:I:3075:LEU:N	2.51	0.43
2:I:4201:ASN:HB3	2:I:4993:MET:CE	2.48	0.43
2:I:4725:LEU:HD22	2:I:4743:MET:HE1	1.99	0.43
2:I:4935:LEU:HD23	2:I:4935:LEU:HA	1.86	0.43
2:I:4983:HIS:HB2	3:I:5301:ATP:N6	2.10	0.43
2:A:134:ASP:OD1	2:A:134:ASP:N	2.50	0.43
2:A:954:LYS:HD2	2:A:967:PRO:HG2	2.00	0.43
2:A:1477:GLY:HA2	2:A:1483:VAL:HA	2.01	0.43
2:A:2478:THR:HG22	2:A:2487:GLN:HB2	2.01	0.43
2:A:2580:ASP:CG	2:A:2621:HIS:HD1	2.26	0.43
2:A:2825:LYS:HG2	2:A:2935:TYR:CZ	2.54	0.43
2:A:3540:TYR:CE2	2:A:3549:VAL:HG11	2.54	0.43
2:A:3545:THR:O	2:A:3549:VAL:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3788:GLY:HA2	2:A:3835:LEU:HD22	1.99	0.43
2:A:3825:GLU:HG3	2:A:3827:GLY:H	1.83	0.43
2:A:4180:ARG:NE	2:A:4981:GLU:OE1	2.40	0.43
2:A:4201:ASN:HB3	2:A:4993:MET:CE	2.48	0.43
2:A:4686:LEU:HD12	2:A:4690:GLU:OE2	2.18	0.43
2:G:107:ILE:HG23	2:G:150:MET:HE1	2.00	0.43
2:G:667:MET:HG3	2:G:743:VAL:HG22	2.00	0.43
2:G:2024:PRO:HB2	2:G:2026:ASP:OD1	2.18	0.43
2:G:2580:ASP:CG	2:G:2621:HIS:HD1	2.26	0.43
2:G:2616:PRO:HD3	2:G:2650:ARG:HH22	1.84	0.43
2:G:4646:LEU:HD23	2:G:4646:LEU:HA	1.85	0.43
2:B:431:PRO:HB3	2:B:507:ALA:HA	2.00	0.43
2:B:959:TYR:CG	2:B:960:MET:N	2.85	0.43
2:B:1494:MET:HE1	2:B:1553:PHE:CZ	2.54	0.43
2:B:1738:LEU:HB3	2:B:1963:GLU:OE2	2.19	0.43
2:B:2024:PRO:HB2	2:B:2026:ASP:OD1	2.18	0.43
2:B:2758:PHE:HB3	2:B:2809:ILE:HD13	2.00	0.43
2:B:3540:TYR:CE2	2:B:3549:VAL:HG11	2.54	0.43
2:B:3842:LEU:HD12	2:B:3954:ALA:HB2	2.00	0.43
2:B:4148:THR:O	2:B:4151:SER:N	2.51	0.43
2:B:4175:ARG:HA	2:B:4178:LEU:HG	2.00	0.43
2:B:4200:THR:O	2:B:4204:GLN:HG3	2.18	0.43
2:B:4548:ARG:HD2	2:B:4548:ARG:C	2.44	0.43
2:B:4978:HIS:CE1	2:B:4982:GLU:OE1	2.72	0.43
2:I:353:SER:O	2:I:355:LEU:N	2.51	0.43
2:I:2116:LEU:O	2:I:2120:MET:HG3	2.19	0.43
2:I:2758:PHE:HB3	2:I:2809:ILE:HD13	2.00	0.43
2:I:3283:ARG:O	2:I:3287:ARG:NE	2.52	0.43
2:I:3873:LYS:HE3	2:I:3873:LYS:HB3	1.45	0.43
2:I:3901:ASN:HA	2:I:3904:ARG:HH21	1.81	0.43
2:I:4183:ILE:HD12	2:I:4183:ILE:HA	1.88	0.43
2:I:4231:MET:CG	2:I:4959:PHE:HE2	2.32	0.43
2:I:4978:HIS:CE1	2:I:4982:GLU:OE1	2.71	0.43
1:F:23:VAL:CG2	1:F:105:ASN:H	2.32	0.43
2:A:179:TYR:CD2	2:A:197:GLN:HB3	2.54	0.43
2:A:664:PHE:CE1	2:A:779:PRO:HB3	2.54	0.43
2:A:988:LEU:HD12	2:A:988:LEU:HA	1.79	0.43
2:A:2091:PRO:HB2	2:A:2092:GLN:H	1.69	0.43
2:A:2599:GLN:O	2:A:2603:ILE:HG13	2.18	0.43
2:A:2743:LEU:H	2:A:2743:LEU:HD12	1.83	0.43
2:A:2758:PHE:HB3	2:A:2809:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3445:TRP:HA	2:A:3451:PHE:CD1	2.54	0.43
2:A:3527:PRO:HA	2:A:3530:GLN:NE2	2.32	0.43
2:A:3614:LYS:HE3	2:A:3614:LYS:HB2	1.76	0.43
2:A:3924:LEU:HD23	2:A:3924:LEU:HA	1.89	0.43
2:G:67:PHE:HE1	2:G:111:HIS:CD2	2.36	0.43
2:G:268:SER:HG	2:G:269:TRP:CD1	2.37	0.43
2:G:664:PHE:CE1	2:G:779:PRO:HB3	2.54	0.43
2:G:1137:GLU:OE1	2:G:1137:GLU:N	2.52	0.43
2:G:1494:MET:HE1	2:G:1553:PHE:CZ	2.54	0.43
2:G:2116:LEU:O	2:G:2120:MET:HG3	2.19	0.43
2:G:2758:PHE:HB3	2:G:2809:ILE:HD13	2.00	0.43
2:G:4231:MET:CG	2:G:4959:PHE:HE2	2.32	0.43
2:G:4548:ARG:HD2	2:G:4548:ARG:C	2.44	0.43
2:G:4849:TYR:HE1	2:I:4578:LEU:CD1	2.28	0.43
2:G:4990:PHE:HD1	2:G:4993:MET:HE2	1.82	0.43
2:B:515:TRP:CH2	2:B:555:GLU:HG2	2.53	0.43
2:B:867:LEU:HG	2:B:929:LEU:HD13	2.00	0.43
2:B:983:THR:HB	2:B:1055:PRO:HG3	2.01	0.43
2:B:1286:MET:HE2	2:B:1286:MET:HB3	1.78	0.43
2:B:3283:ARG:NH2	2:B:3287:ARG:HH22	2.10	0.43
2:B:3637:ARG:HD2	2:B:3638:MET:H	1.84	0.43
2:B:4058:ILE:HA	2:B:4061:PHE:CD1	2.54	0.43
2:B:4686:LEU:HD12	2:B:4690:GLU:OE2	2.18	0.43
2:I:28:VAL:C	2:I:29:LEU:HD23	2.43	0.43
2:I:2124:LEU:HD12	2:I:2124:LEU:HA	1.87	0.43
2:I:2460:LEU:HG	2:I:2461:VAL:HG13	2.01	0.43
2:I:2743:LEU:H	2:I:2743:LEU:HD12	1.83	0.43
2:I:3269:VAL:O	2:I:3273:THR:N	2.51	0.43
2:I:3436:ARG:NE	2:I:3598:GLU:OE1	2.30	0.43
2:I:3465:ASN:C	2:I:3467:MET:H	2.26	0.43
2:I:3540:TYR:CE2	2:I:3549:VAL:HG11	2.54	0.43
2:I:4175:ARG:HA	2:I:4178:LEU:HG	2.00	0.43
2:I:4184:MET:HB3	2:I:5021:PHE:HA	2.01	0.43
2:A:877:ASN:C	2:A:877:ASN:HD22	2.27	0.43
2:A:2121:PHE:CZ	2:A:3701:LEU:HB2	2.53	0.43
2:A:2298:VAL:HG21	2:A:2334:PHE:CD1	2.54	0.43
2:A:2625:ARG:HA	2:A:2628:PHE:CE1	2.53	0.43
2:A:2860:PRO:HG3	2:A:2929:PHE:HE1	1.84	0.43
2:A:3008:GLN:HG2	2:A:3012:ASN:ND2	2.34	0.43
2:A:3157:ILE:O	2:A:3162:GLN:HG3	2.19	0.43
2:A:3281:LEU:N	2:A:3282:PRO:HD2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3641:LEU:HD13	2:A:3644:LEU:HD12	2.01	0.43
2:A:3951:PHE:CD2	2:A:4012:LEU:HD21	2.49	0.43
2:A:4548:ARG:HD2	2:A:4548:ARG:C	2.44	0.43
2:A:4921:PHE:CE2	2:G:4892:ARG:HA	2.54	0.43
2:G:462:GLU:HG2	2:G:463:GLU:OE2	2.18	0.43
2:G:607:CYS:SG	2:G:1672:ALA:HB1	2.58	0.43
2:G:2362:GLU:HB2	2:G:2369:ARG:NH2	2.34	0.43
2:G:2467:VAL:HG12	2:G:2521:VAL:HG22	2.00	0.43
2:G:2693:GLN:N	2:G:2996:LYS:HZ1	2.17	0.43
2:G:2928:LYS:O	2:G:2932:MET:HG2	2.18	0.43
2:G:3007:ASN:HA	2:G:3070:ILE:HD11	2.00	0.43
2:G:3070:ILE:O	2:G:3074:SER:N	2.46	0.43
2:G:3250:MET:HE1	2:G:3315:LEU:HB2	2.00	0.43
2:G:4093:PHE:CG	2:G:4123:ILE:HD11	2.54	0.43
2:G:4214:LYS:HD3	2:G:4234:PHE:CZ	2.53	0.43
2:G:4686:LEU:HD12	2:G:4690:GLU:OE2	2.18	0.43
2:B:268:SER:HG	2:B:269:TRP:CD1	2.36	0.43
2:B:667:MET:HG3	2:B:743:VAL:HG22	2.01	0.43
2:B:2018:GLU:OE1	2:B:2018:GLU:N	2.49	0.43
2:B:2116:LEU:O	2:B:2120:MET:HG3	2.19	0.43
2:B:2928:LYS:O	2:B:2932:MET:HG2	2.18	0.43
2:B:3050:VAL:HG13	2:B:3050:VAL:O	2.17	0.43
2:B:4221:VAL:HG23	2:B:4230:LYS:HZ3	1.84	0.43
2:I:25:SER:OG	2:I:32:GLN:NE2	2.51	0.43
2:I:104:GLY:N	2:I:150:MET:HB3	2.30	0.43
2:I:867:LEU:HG	2:I:929:LEU:HD13	2.00	0.43
2:I:2474:LEU:HD23	2:I:2499:LYS:HZ3	1.83	0.43
2:I:3132:THR:HG23	2:I:3136:LEU:HB2	2.01	0.43
2:I:3157:ILE:O	2:I:3162:GLN:HG3	2.19	0.43
2:I:3768:SER:HA	2:I:3771:HIS:HB3	2.01	0.43
2:I:4093:PHE:CG	2:I:4123:ILE:HD11	2.54	0.43
2:I:4586:PRO:HG3	2:I:4629:TYR:CE1	2.54	0.43
2:I:4922:PHE:O	2:I:4927:ILE:HG12	2.19	0.43
2:A:233:ILE:O	2:A:257:ARG:NH1	2.41	0.43
2:A:1972:ASN:OD1	2:A:1973:GLN:N	2.51	0.43
2:A:2024:PRO:HB2	2:A:2026:ASP:OD1	2.18	0.43
2:A:2116:LEU:O	2:A:2120:MET:HG3	2.19	0.43
2:A:2452:ARG:NH2	2:B:144:GLU:OE2	2.45	0.43
2:A:3069:HIS:NE2	2:A:3138:PRO:HB2	2.34	0.43
2:A:4995:LEU:HD21	2:A:5007:GLU:HG3	2.01	0.43
2:G:867:LEU:HG	2:G:929:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:954:LYS:HD2	2:G:967:PRO:HG2	2.00	0.43
2:G:1152:MET:HB3	2:G:1223:PHE:CE2	2.53	0.43
2:G:2298:VAL:HG21	2:G:2334:PHE:CD1	2.54	0.43
2:G:2478:THR:HG22	2:G:2487:GLN:HB2	2.01	0.43
2:G:3018:LEU:HA	2:G:3036:LYS:HE3	2.01	0.43
2:G:3157:ILE:O	2:G:3162:GLN:HG3	2.19	0.43
2:G:4080:TYR:CE2	2:G:4095:LYS:HB3	2.53	0.43
2:G:4200:THR:O	2:G:4204:GLN:HG3	2.18	0.43
2:B:1288:PHE:HA	2:B:1553:PHE:CD1	2.54	0.43
2:B:2228:MET:HE2	2:B:2228:MET:HB2	1.85	0.43
2:B:2381:GLU:HA	2:B:2384:ILE:HG13	1.99	0.43
2:B:3158:LEU:O	2:B:3162:GLN:NE2	2.50	0.43
2:B:3847:PHE:HZ	2:B:3943:ILE:HD11	1.84	0.43
2:B:4586:PRO:HG3	2:B:4629:TYR:CE1	2.54	0.43
2:I:144:GLU:HG3	2:I:175:SER:HA	2.01	0.43
2:I:431:PRO:HB3	2:I:507:ALA:HA	2.00	0.43
2:I:1152:MET:HB3	2:I:1223:PHE:CE2	2.53	0.43
2:I:3007:ASN:HA	2:I:3070:ILE:HD11	2.00	0.43
2:I:3016:TYR:O	2:I:3019:SER:OG	2.23	0.43
2:I:3250:MET:HE1	2:I:3315:LEU:HB2	2.01	0.43
2:I:3281:LEU:N	2:I:3282:PRO:HD2	2.34	0.43
2:I:3372:VAL:HG11	2:I:3397:GLU:OE1	2.17	0.43
2:I:3525:CYS:HA	2:I:3595:ARG:NH1	2.34	0.43
2:I:3825:GLU:HG3	2:I:3827:GLY:H	1.83	0.43
2:I:3923:LEU:HD11	2:I:3962:PHE:CZ	2.54	0.43
2:I:4214:LYS:HD3	2:I:4234:PHE:CZ	2.53	0.43
2:I:4939:ALA:O	2:I:4943:LEU:HD23	2.19	0.43
2:I:4995:LEU:HD21	2:I:5007:GLU:HG3	2.01	0.43
2:A:268:SER:HG	2:A:269:TRP:CD1	2.37	0.42
2:A:973:SER:HA	2:A:976:ARG:HH22	1.84	0.42
2:A:1288:PHE:HA	2:A:1553:PHE:CD1	2.54	0.42
2:A:2102:VAL:HG13	2:A:2120:MET:HE2	2.01	0.42
2:A:2460:LEU:HG	2:A:2461:VAL:HG13	2.01	0.42
2:A:2712:PRO:HB3	2:A:2956:ALA:HB2	2.01	0.42
2:A:3342:ALA:O	2:A:3345:ILE:HG22	2.19	0.42
2:A:4241:THR:HA	2:A:4244:GLU:OE1	2.19	0.42
2:G:743:VAL:HG11	2:G:801:LYS:HB2	2.01	0.42
2:G:870:ILE:O	2:G:874:LEU:HG	2.19	0.42
2:G:983:THR:HB	2:G:1055:PRO:HG3	2.01	0.42
2:G:1248:VAL:HG23	2:G:1597:VAL:O	2.19	0.42
2:G:1276:THR:O	2:G:1282:SER:OG	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1595:LEU:HD12	2:G:1595:LEU:HA	1.78	0.42
2:G:2001:PRO:O	2:G:2005:GLN:HG3	2.19	0.42
2:G:2460:LEU:HG	2:G:2461:VAL:HG13	2.01	0.42
2:G:2860:PRO:HG3	2:G:2929:PHE:HE1	1.84	0.42
2:G:3069:HIS:NE2	2:G:3138:PRO:HB2	2.34	0.42
2:G:3281:LEU:N	2:G:3282:PRO:HD2	2.34	0.42
2:G:3445:TRP:HA	2:G:3451:PHE:CD1	2.54	0.42
2:G:3641:LEU:HD13	2:G:3644:LEU:HD12	2.01	0.42
2:G:3859:VAL:O	2:G:3859:VAL:HG13	2.18	0.42
2:G:4180:ARG:NE	2:G:4981:GLU:OE1	2.40	0.42
2:G:4922:PHE:O	2:G:4927:ILE:HG12	2.19	0.42
2:B:25:SER:OG	2:B:32:GLN:NE2	2.51	0.42
2:B:28:VAL:C	2:B:29:LEU:HD23	2.43	0.42
2:B:971:ASP:N	2:B:971:ASP:OD1	2.51	0.42
2:B:1297:PHE:HE1	2:B:1548:LEU:HD12	1.83	0.42
2:B:1595:LEU:HD12	2:B:1595:LEU:HA	1.78	0.42
2:I:179:TYR:CD2	2:I:197:GLN:HB3	2.54	0.42
2:I:2362:GLU:HB2	2:I:2369:ARG:NH2	2.34	0.42
2:I:2478:THR:HG22	2:I:2487:GLN:HB2	2.01	0.42
2:I:3008:GLN:HG2	2:I:3012:ASN:ND2	2.34	0.42
2:I:3637:ARG:HD2	2:I:3638:MET:H	1.84	0.42
2:A:104:GLY:N	2:A:150:MET:HB3	2.30	0.42
2:A:163:VAL:HG23	2:A:163:VAL:O	2.19	0.42
2:A:317:ARG:HH12	2:A:323:LEU:HA	1.83	0.42
2:A:431:PRO:HB3	2:A:507:ALA:HA	2.00	0.42
2:A:462:GLU:HG2	2:A:463:GLU:OE2	2.18	0.42
2:A:1442:GLY:O	2:A:1557:THR:OG1	2.30	0.42
2:A:2579:VAL:O	2:A:2583:LEU:HG	2.19	0.42
2:A:2928:LYS:O	2:A:2932:MET:HG2	2.18	0.42
2:A:4093:PHE:CG	2:A:4123:ILE:HD11	2.54	0.42
2:A:4978:HIS:CE1	2:A:4982:GLU:OE1	2.71	0.42
2:A:4999:ASP:OD2	2:A:5002:GLU:N	2.49	0.42
2:A:5012:LYS:O	2:A:5015:GLN:N	2.51	0.42
2:G:860:GLN:OE1	2:G:860:GLN:N	2.52	0.42
2:G:2579:VAL:O	2:G:2583:LEU:HG	2.19	0.42
2:G:2641:LEU:HD11	2:G:2698:MET:SD	2.59	0.42
2:G:2711:PRO:HA	2:G:2712:PRO:HD3	1.89	0.42
2:G:3283:ARG:NH2	2:G:3287:ARG:HH22	2.10	0.42
2:G:3901:ASN:HA	2:G:3904:ARG:HH21	1.81	0.42
2:G:3923:LEU:HD11	2:G:3962:PHE:CZ	2.54	0.42
2:B:973:SER:HA	2:B:976:ARG:HH22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2159:LEU:O	2:B:2163:ARG:HG2	2.18	0.42
2:B:2298:VAL:HG21	2:B:2334:PHE:CD1	2.54	0.42
2:B:2460:LEU:HG	2:B:2461:VAL:HG13	2.01	0.42
2:B:2477:PRO:HD2	2:B:2536:LEU:HD11	2.01	0.42
2:B:3157:ILE:O	2:B:3162:GLN:HG3	2.19	0.42
2:B:3281:LEU:N	2:B:3282:PRO:HD2	2.34	0.42
2:B:3859:VAL:O	2:B:3859:VAL:HG13	2.18	0.42
2:B:4231:MET:CG	2:B:4959:PHE:HE2	2.32	0.42
2:I:163:VAL:HG23	2:I:163:VAL:O	2.19	0.42
2:I:819:GLU:OE1	2:I:819:GLU:N	2.51	0.42
2:I:860:GLN:OE1	2:I:860:GLN:N	2.52	0.42
2:I:988:LEU:HD12	2:I:988:LEU:HA	1.79	0.42
2:I:1137:GLU:OE1	2:I:1137:GLU:N	2.52	0.42
2:I:1290:ARG:HD2	2:I:1549:PHE:CD2	2.55	0.42
2:I:1985:THR:O	2:I:1986:MET:HB3	2.19	0.42
2:I:3170:CYS:SG	2:I:3240:CYS:HB2	2.60	0.42
2:I:3542:LEU:O	2:I:3542:LEU:HD23	2.19	0.42
2:I:3641:LEU:HD13	2:I:3644:LEU:HD12	2.00	0.42
2:I:4026:MET:HB3	2:I:4026:MET:HE3	1.51	0.42
2:A:1595:LEU:HD12	2:A:1595:LEU:HA	1.78	0.42
2:A:2233:CYS:SG	2:A:2270:SER:OG	2.56	0.42
2:A:2653:LYS:O	2:A:2657:LEU:HB2	2.20	0.42
2:A:3036:LYS:HD2	2:A:3078:ARG:HD3	2.01	0.42
2:A:3274:LEU:HB3	2:A:3275:PRO:HD3	2.01	0.42
2:A:4238:CYS:HB3	2:A:4989:MET:HG3	2.00	0.42
2:A:4884:LEU:HD11	2:B:4914:VAL:HG11	2.01	0.42
2:G:973:SER:HA	2:G:976:ARG:HH22	1.84	0.42
2:G:1288:PHE:HA	2:G:1553:PHE:CD1	2.54	0.42
2:G:1297:PHE:HE1	2:G:1548:LEU:HD12	1.83	0.42
2:G:1586:ASN:ND2	2:G:1590:GLN:OE1	2.53	0.42
2:G:3159:ASP:C	2:G:3161:VAL:H	2.26	0.42
2:G:3170:CYS:SG	2:G:3240:CYS:HB2	2.60	0.42
2:G:3283:ARG:O	2:G:3287:ARG:NE	2.52	0.42
2:G:3374:ALA:O	2:G:3377:GLU:N	2.51	0.42
2:G:3380:ARG:NH2	2:G:3388:GLU:OE1	2.52	0.42
2:G:3531:ASP:OD1	2:G:3532:LEU:N	2.46	0.42
2:G:3847:PHE:HZ	2:G:3943:ILE:HD11	1.84	0.42
2:G:4713:SER:HB3	2:G:4775:TYR:OH	2.19	0.42
2:G:4933:GLN:O	2:G:4937:ILE:HG12	2.20	0.42
2:B:498:THR:HA	2:B:553:ARG:HH22	1.84	0.42
2:B:636:ASN:HB2	2:B:702:TRP:CZ3	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:743:VAL:HG11	2:B:801:LYS:HB2	2.01	0.42
2:B:954:LYS:HD2	2:B:967:PRO:HG2	2.00	0.42
2:B:1152:MET:HB3	2:B:1223:PHE:CE2	2.53	0.42
2:B:1290:ARG:HD2	2:B:1549:PHE:CD2	2.55	0.42
2:B:1469:VAL:CG2	2:B:1492:CYS:HB3	2.50	0.42
2:B:1692:ALA:O	2:B:1693:GLN:C	2.59	0.42
2:B:1985:THR:O	2:B:1986:MET:HB3	2.19	0.42
2:B:2822:THR:OG1	2:B:2938:THR:OG1	2.36	0.42
2:B:3283:ARG:O	2:B:3287:ARG:NE	2.52	0.42
2:B:3991:GLY:O	2:B:3995:VAL:HG23	2.19	0.42
2:B:4184:MET:HB3	2:B:5021:PHE:HA	2.01	0.42
2:I:935:LEU:HD11	2:I:991:ASN:ND2	2.33	0.42
2:I:1420:ASN:OD1	2:I:1421:ARG:N	2.47	0.42
2:I:1972:ASN:OD1	2:I:1973:GLN:N	2.51	0.42
2:I:2381:GLU:HA	2:I:2384:ILE:CG1	2.49	0.42
2:I:2381:GLU:HA	2:I:2384:ILE:HG13	1.99	0.42
2:I:2616:PRO:HD3	2:I:2650:ARG:HH22	1.84	0.42
2:I:2714:TYR:HE2	2:I:2716:ASP:OD1	2.02	0.42
2:I:4548:ARG:HD2	2:I:4548:ARG:C	2.44	0.42
2:I:4863:TYR:HB2	2:I:4874:MET:CE	2.46	0.42
2:A:107:ILE:CG2	2:A:150:MET:HE1	2.49	0.42
2:A:144:GLU:HG3	2:A:175:SER:HA	2.01	0.42
2:A:983:THR:HG22	2:A:987:ARG:HH12	1.85	0.42
2:A:1739:THR:O	2:A:1742:THR:HG22	2.20	0.42
2:A:3046:LEU:O	2:A:3050:VAL:N	2.49	0.42
2:A:3542:LEU:O	2:A:3542:LEU:HD23	2.19	0.42
2:A:3768:SER:HA	2:A:3771:HIS:HB3	2.01	0.42
1:H:26:TYR:H	1:H:26:TYR:HD1	1.66	0.42
2:G:25:SER:OG	2:G:32:GLN:NE2	2.51	0.42
2:G:451:TYR:OH	2:G:474:ARG:HD2	2.20	0.42
2:G:928:THR:O	2:G:931:THR:OG1	2.30	0.42
2:G:1435:TYR:CE1	2:G:1518:CYS:HB2	2.54	0.42
2:G:2102:VAL:HG13	2:G:2120:MET:HE2	2.01	0.42
2:G:2712:PRO:HB3	2:G:2956:ALA:HB2	2.01	0.42
2:G:2874:MET:O	2:G:2878:LEU:HG	2.19	0.42
2:G:3542:LEU:O	2:G:3542:LEU:HD23	2.19	0.42
2:B:179:TYR:CD2	2:B:197:GLN:HB3	2.54	0.42
2:B:949:ASN:HB3	2:B:974:HIS:CE1	2.55	0.42
2:B:983:THR:HG22	2:B:987:ARG:HH12	1.85	0.42
2:B:1586:ASN:ND2	2:B:1590:GLN:OE1	2.53	0.42
2:B:1805:GLU:OE1	2:B:1805:GLU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3008:GLN:HG2	2:B:3012:ASN:ND2	2.34	0.42
2:B:3069:HIS:NE2	2:B:3138:PRO:HB2	2.34	0.42
2:B:3132:THR:HG23	2:B:3136:LEU:HB2	2.01	0.42
2:B:3947:GLY:HA2	2:B:3950:ASN:HD22	1.84	0.42
2:I:664:PHE:CE1	2:I:779:PRO:HB3	2.53	0.42
2:I:2102:VAL:HG13	2:I:2120:MET:HE2	2.01	0.42
2:I:2750[A]:LYS:O	2:I:2935:TYR:OH	2.33	0.42
2:I:2874:MET:O	2:I:2878:LEU:HG	2.19	0.42
2:I:3046:LEU:O	2:I:3050:VAL:N	2.49	0.42
2:I:4177:TYR:HE1	2:I:4199:GLU:HB3	1.82	0.42
2:A:14:LEU:N	2:A:163:VAL:HG23	2.35	0.42
2:A:971:ASP:OD1	2:A:971:ASP:N	2.51	0.42
2:A:1248:VAL:HG23	2:A:1597:VAL:O	2.19	0.42
2:A:1435:TYR:CE1	2:A:1518:CYS:HB2	2.54	0.42
2:A:1717:SER:HA	2:A:1721:GLU:CG	2.48	0.42
2:A:2021:CYS:HB2	2:A:2023:LEU:HD13	2.01	0.42
2:A:2155:LEU:HD12	2:A:2185:ILE:HD13	2.02	0.42
2:A:2332:LEU:O	2:A:2336:ARG:HG3	2.20	0.42
2:A:2641:LEU:HD11	2:A:2698:MET:SD	2.58	0.42
2:A:2714:TYR:HE2	2:A:2716:ASP:OD1	2.02	0.42
2:A:3374:ALA:O	2:A:3377:GLU:N	2.51	0.42
2:A:3388:GLU:O	2:A:3392:LEU:HG	2.20	0.42
2:A:3525:CYS:HA	2:A:3595:ARG:NH1	2.34	0.42
2:A:3923:LEU:HD11	2:A:3962:PHE:CZ	2.54	0.42
2:A:4586:PRO:HG3	2:A:4629:TYR:CZ	2.54	0.42
2:A:4721:LYS:HG3	2:A:4741:LEU:HD22	2.02	0.42
2:A:4743:MET:HE2	2:A:4743:MET:HB3	1.97	0.42
2:G:163:VAL:HG23	2:G:163:VAL:O	2.19	0.42
2:G:689:THR:OG1	2:G:776:LEU:HB2	2.20	0.42
2:G:877:ASN:C	2:G:877:ASN:HD22	2.27	0.42
2:G:1717:SER:HA	2:G:1721:GLU:CG	2.48	0.42
2:G:1805:GLU:OE1	2:G:1805:GLU:N	2.52	0.42
2:G:2380:ILE:HD13	2:G:2380:ILE:HA	1.88	0.42
2:G:3342:ALA:O	2:G:3345:ILE:HG22	2.19	0.42
2:G:3637:ARG:HD2	2:G:3638:MET:H	1.84	0.42
2:G:4090:LYS:NZ	2:G:4112:LEU:HD12	2.34	0.42
2:G:4184:MET:HB3	2:G:5021:PHE:HA	2.01	0.42
2:G:4995:LEU:HD21	2:G:5007:GLU:HG3	2.01	0.42
2:B:949:ASN:HB3	2:B:974:HIS:HE2	1.84	0.42
2:B:1236:THR:OG1	2:B:1608:MET:SD	2.74	0.42
2:B:1477:GLY:HA2	2:B:1483:VAL:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3170:CYS:SG	2:B:3240:CYS:HB2	2.60	0.42
2:B:4238:CYS:HB3	2:B:4989:MET:HG3	2.00	0.42
2:B:4646:LEU:HD23	2:B:4646:LEU:HA	1.85	0.42
2:I:268:SER:HG	2:I:269:TRP:CD1	2.36	0.42
2:I:1248:VAL:HG23	2:I:1597:VAL:O	2.19	0.42
2:I:1739:THR:O	2:I:1742:THR:HG22	2.20	0.42
2:I:2579:VAL:O	2:I:2583:LEU:HG	2.20	0.42
2:I:2693:GLN:N	2:I:2996:LYS:HZ1	2.17	0.42
2:I:3847:PHE:HZ	2:I:3943:ILE:HD11	1.84	0.42
2:I:3991:GLY:O	2:I:3995:VAL:HG23	2.19	0.42
2:A:181:HIS:HA	2:A:198:THR:CG2	2.50	0.42
2:A:949:ASN:HB3	2:A:974:HIS:CE1	2.55	0.42
2:A:1047:LEU:C	2:A:1049:TYR:H	2.28	0.42
2:A:1805:GLU:OE1	2:A:1805:GLU:N	2.52	0.42
2:A:2001:PRO:O	2:A:2005:GLN:HG3	2.19	0.42
2:A:2368:LEU:HD12	2:A:2368:LEU:HA	1.86	0.42
2:A:2381:GLU:HA	2:A:2384:ILE:CG1	2.49	0.42
2:A:3166:TYR:HB3	2:A:3239:MET:HE2	2.02	0.42
2:A:3991:GLY:O	2:A:3995:VAL:HG23	2.19	0.42
1:O:82:TYR:CD1	1:O:87:HIS:HB2	2.55	0.42
2:G:179:TYR:CD2	2:G:197:GLN:HB3	2.54	0.42
2:G:1089:TYR:CD2	2:G:1152:MET:HG3	2.52	0.42
2:G:1739:THR:O	2:G:1742:THR:HG22	2.20	0.42
2:G:2381:GLU:HA	2:G:2384:ILE:CG1	2.49	0.42
2:G:3008:GLN:HG2	2:G:3012:ASN:ND2	2.34	0.42
2:G:3166:TYR:HB3	2:G:3239:MET:HE2	2.02	0.42
2:G:3525:CYS:HA	2:G:3595:ARG:NH1	2.34	0.42
2:G:3962:PHE:O	2:G:4026:MET:SD	2.78	0.42
2:G:4911:LEU:O	2:G:4915:VAL:HG23	2.19	0.42
2:B:1247:PRO:HA	2:B:1598:GLN:HG2	2.01	0.42
2:B:1248:VAL:HG23	2:B:1597:VAL:O	2.19	0.42
2:B:1698:LEU:HG	2:B:1712:TYR:CZ	2.55	0.42
2:B:2001:PRO:O	2:B:2005:GLN:HG3	2.19	0.42
2:B:2579:VAL:O	2:B:2583:LEU:HG	2.19	0.42
2:B:2874:MET:O	2:B:2878:LEU:HG	2.19	0.42
2:B:3725:TYR:HA	2:B:3728:ILE:HD12	2.02	0.42
2:B:3923:LEU:HD11	2:B:3962:PHE:CZ	2.54	0.42
2:B:4586:PRO:HG3	2:B:4629:TYR:CZ	2.54	0.42
2:B:4911:LEU:O	2:B:4915:VAL:HG23	2.19	0.42
2:I:871:ARG:NE	2:I:922:LEU:HD12	2.35	0.42
2:I:954:LYS:HD2	2:I:967:PRO:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:973:SER:HA	2:I:976:ARG:HH22	1.85	0.42
2:I:1469:VAL:CG2	2:I:1492:CYS:HB3	2.50	0.42
2:I:2968:ASP:O	2:I:2971:GLN:HB2	2.20	0.42
2:I:3015:LEU:HB3	2:I:3025:LEU:O	2.20	0.42
2:I:3033:ASN:OD1	2:I:3033:ASN:N	2.53	0.42
2:I:3159:ASP:C	2:I:3161:VAL:H	2.26	0.42
2:I:3527:PRO:C	2:I:3529:ASP:H	2.28	0.42
2:A:158:SER:H	2:A:161:GLU:CD	2.21	0.42
2:A:451:TYR:OH	2:A:474:ARG:HD2	2.20	0.42
2:A:667:MET:HG3	2:A:743:VAL:HG22	2.00	0.42
2:A:1494:MET:HE1	2:A:1553:PHE:CZ	2.54	0.42
2:A:1586:ASN:ND2	2:A:1590:GLN:OE1	2.53	0.42
2:A:1668:ARG:HE	2:A:1668:ARG:HB3	1.69	0.42
2:A:1942:LEU:HD23	2:A:1942:LEU:HA	1.83	0.42
2:A:3269:VAL:O	2:A:3273:THR:N	2.51	0.42
2:A:3380:ARG:NH2	2:A:3388:GLU:OE1	2.52	0.42
2:A:3947:GLY:HA2	2:A:3950:ASN:HD22	1.85	0.42
2:G:345:LEU:HD21	2:G:389:PHE:CZ	2.55	0.42
2:G:1290:ARG:HD2	2:G:1549:PHE:CD2	2.55	0.42
2:G:2021:CYS:HB2	2:G:2023:LEU:HD13	2.01	0.42
2:G:3107:VAL:O	2:G:3111:ARG:NH2	2.53	0.42
2:G:3388:GLU:O	2:G:3392:LEU:HG	2.20	0.42
2:G:4204:GLN:CB	2:G:4245:MET:HE3	2.47	0.42
2:B:297:GLN:HB3	2:B:300:VAL:HG13	2.02	0.42
2:B:697:GLY:CA	2:B:1636:MET:HE1	2.50	0.42
2:B:870:ILE:O	2:B:874:LEU:HG	2.19	0.42
2:B:1007:TYR:CG	2:B:1008:SER:N	2.88	0.42
2:B:2478:THR:HG22	2:B:2487:GLN:HB2	2.01	0.42
2:B:3036:LYS:HD2	2:B:3078:ARG:HD3	2.01	0.42
2:B:3445:TRP:HA	2:B:3451:PHE:CD1	2.54	0.42
2:B:3525:CYS:HA	2:B:3595:ARG:NH1	2.34	0.42
2:B:3527:PRO:C	2:B:3529:ASP:H	2.28	0.42
2:B:3614:LYS:HB2	2:B:3614:LYS:HE3	1.77	0.42
2:B:4090:LYS:NZ	2:B:4112:LEU:HD12	2.34	0.42
2:B:4093:PHE:CG	2:B:4123:ILE:HD11	2.54	0.42
2:B:4990:PHE:CD1	2:B:4993:MET:HE2	2.55	0.42
2:I:345:LEU:HD21	2:I:389:PHE:CZ	2.55	0.42
2:I:451:TYR:OH	2:I:474:ARG:HD2	2.20	0.42
2:I:949:ASN:HB3	2:I:974:HIS:HE2	1.84	0.42
2:I:1100:MET:HE2	2:I:1100:MET:HB3	1.91	0.42
2:I:1297:PHE:HE1	2:I:1548:LEU:HD12	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1586:ASN:ND2	2:I:1590:GLN:OE1	2.53	0.42
2:I:1694:LEU:HD23	2:I:1694:LEU:HA	1.85	0.42
2:I:2159:LEU:O	2:I:2163:ARG:HG2	2.18	0.42
2:I:2562:ILE:HA	2:I:2565:CYS:SG	2.60	0.42
2:I:2672:LEU:HD23	2:I:2672:LEU:HA	1.85	0.42
2:I:3263:TYR:H	2:I:3326:ASN:HD21	1.67	0.42
2:I:3342:ALA:O	2:I:3345:ILE:HG22	2.19	0.42
2:I:3388:GLU:O	2:I:3392:LEU:HG	2.20	0.42
2:I:3965:LEU:HA	2:I:3968:TYR:CD2	2.55	0.42
2:I:4713:SER:HB3	2:I:4775:TYR:OH	2.20	0.42
2:I:4911:LEU:O	2:I:4915:VAL:HG23	2.19	0.42
2:I:4933:GLN:O	2:I:4937:ILE:HG12	2.20	0.42
2:A:183:SER:HB2	2:A:190:GLN:N	2.35	0.42
2:A:297:GLN:HB3	2:A:300:VAL:HG13	2.02	0.42
2:A:803:LEU:HD23	2:A:804:PRO:O	2.20	0.42
2:A:1252:HIS:CG	2:A:1253:PRO:HD2	2.55	0.42
2:A:2519:LEU:HD21	2:A:2575:ARG:HE	1.85	0.42
2:A:2874:MET:O	2:A:2878:LEU:HG	2.19	0.42
2:A:2894:LEU:O	2:A:2898:GLY:N	2.48	0.42
2:A:2894:LEU:HG	2:A:2899:GLY:HA2	2.02	0.42
2:A:3107:VAL:O	2:A:3111:ARG:NH2	2.53	0.42
2:A:4090:LYS:NZ	2:A:4112:LEU:HD12	2.34	0.42
2:G:107:ILE:CG2	2:G:150:MET:HE1	2.49	0.42
2:G:144:GLU:HG3	2:G:175:SER:HA	2.01	0.42
2:G:537:CYS:SG	2:G:570:GLU:HB3	2.60	0.42
2:G:1101:ARG:HD2	2:G:1115:LEU:HB2	2.01	0.42
2:G:1247:PRO:HA	2:G:1598:GLN:HG2	2.01	0.42
2:G:1469:VAL:CG2	2:G:1492:CYS:HB3	2.50	0.42
2:G:1479:GLU:HG3	2:G:1480:GLN:H	1.85	0.42
2:G:2383:ALA:O	2:G:2387:SER:OG	2.27	0.42
2:G:2653:LYS:O	2:G:2657:LEU:HB2	2.20	0.42
2:G:3965:LEU:HA	2:G:3968:TYR:CD2	2.55	0.42
2:G:4586:PRO:HG3	2:G:4629:TYR:CZ	2.54	0.42
2:G:4721:LYS:HG3	2:G:4741:LEU:HD22	2.02	0.42
2:G:4921:PHE:CE2	2:I:4892:ARG:HA	2.54	0.42
2:G:4990:PHE:CD1	2:G:4993:MET:HE2	2.55	0.42
2:B:14:LEU:N	2:B:163:VAL:HG23	2.35	0.42
2:B:215:THR:OG1	2:B:218:HIS:NE2	2.53	0.42
2:B:231:LEU:O	2:B:260:TRP:NE1	2.45	0.42
2:B:451:TYR:OH	2:B:474:ARG:HD2	2.20	0.42
2:B:710:ASP:OD1	2:B:710:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1039:LEU:HD13	2:B:1039:LEU:HA	1.89	0.42
2:B:1479:GLU:HG3	2:B:1480:GLN:H	1.85	0.42
2:B:2102:VAL:HG13	2:B:2120:MET:HE2	2.01	0.42
2:B:2155:LEU:HD12	2:B:2185:ILE:HD13	2.02	0.42
2:B:2381:GLU:HA	2:B:2384:ILE:CG1	2.49	0.42
2:B:2519:LEU:HD21	2:B:2575:ARG:HE	1.85	0.42
2:B:3527:PRO:HA	2:B:3530:GLN:NE2	2.32	0.42
2:B:4241:THR:HA	2:B:4244:GLU:OE1	2.20	0.42
2:B:4939:ALA:O	2:B:4943:LEU:HD23	2.18	0.42
2:B:4979:THR:HG23	3:B:5301:ATP:N3	2.35	0.42
2:I:183:SER:HB2	2:I:190:GLN:N	2.35	0.42
2:I:259:LEU:HD22	2:I:393:CYS:SG	2.60	0.42
2:I:689:THR:OG1	2:I:776:LEU:HB2	2.20	0.42
2:I:1479:GLU:HG3	2:I:1480:GLN:H	1.85	0.42
2:I:1494:MET:HE1	2:I:1553:PHE:CZ	2.54	0.42
2:I:2001:PRO:O	2:I:2005:GLN:HG3	2.19	0.42
2:I:2170:MET:HB2	2:I:2170:MET:HE3	1.65	0.42
2:I:2332:LEU:O	2:I:2336:ARG:HG3	2.20	0.42
2:I:2418:LEU:HG	2:I:2419:GLY:H	1.85	0.42
2:I:2653:LYS:O	2:I:2657:LEU:HB2	2.19	0.42
2:I:3283:ARG:NH2	2:I:3287:ARG:HH22	2.10	0.42
2:I:3725:TYR:HA	2:I:3728:ILE:HD12	2.02	0.42
2:I:4090:LYS:NZ	2:I:4112:LEU:HD12	2.34	0.42
2:I:4656:LEU:HA	2:I:4659:ILE:HG12	2.02	0.42
2:I:4721:LYS:HG3	2:I:4741:LEU:HD22	2.02	0.42
2:A:1155:LEU:HA	2:A:1155:LEU:HD23	1.69	0.42
2:A:1479:GLU:HG3	2:A:1480:GLN:H	1.85	0.42
2:A:2018:GLU:OE1	2:A:2018:GLU:N	2.49	0.42
2:A:2477:PRO:HD2	2:A:2536:LEU:HD11	2.01	0.42
2:A:2968:ASP:O	2:A:2971:GLN:HB2	2.20	0.42
2:A:3033:ASN:N	2:A:3033:ASN:OD1	2.53	0.42
2:A:3132:THR:HG23	2:A:3136:LEU:HB2	2.01	0.42
2:A:3372:VAL:HG21	2:A:3397:GLU:HB3	2.02	0.42
2:A:3802:ILE:O	2:A:3806:ASN:N	2.53	0.42
2:A:4911:LEU:O	2:A:4915:VAL:HG23	2.19	0.42
1:J:82:TYR:CD1	1:J:87:HIS:HB2	2.55	0.42
2:G:710:ASP:N	2:G:710:ASP:OD1	2.53	0.42
2:G:803:LEU:HD23	2:G:804:PRO:O	2.20	0.42
2:G:871:ARG:NE	2:G:922:LEU:HD12	2.35	0.42
2:G:3768:SER:HA	2:G:3771:HIS:HB3	2.01	0.42
2:G:3802:ILE:O	2:G:3806:ASN:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3947:GLY:HA2	2:G:3950:ASN:HD22	1.85	0.42
2:B:183:SER:HB2	2:B:190:GLN:N	2.35	0.42
2:B:779:PRO:HB2	2:B:791:PHE:CZ	2.48	0.42
2:B:2333:ASP:HA	2:B:2336:ARG:NE	2.34	0.42
2:B:2562:ILE:HA	2:B:2565:CYS:SG	2.60	0.42
2:B:2714:TYR:HE2	2:B:2716:ASP:OD1	2.02	0.42
2:B:2860:PRO:HG3	2:B:2929:PHE:HE1	1.84	0.42
2:B:2894:LEU:HG	2:B:2899:GLY:HA2	2.02	0.42
2:B:3263:TYR:H	2:B:3326:ASN:HD21	1.67	0.42
2:B:3342:ALA:O	2:B:3345:ILE:HG22	2.19	0.42
2:B:4177:TYR:HE1	2:B:4199:GLU:HB3	1.82	0.42
2:I:498:THR:HA	2:I:553:ARG:HH22	1.84	0.42
2:I:537:CYS:SG	2:I:570:GLU:HB3	2.60	0.42
2:I:2021:CYS:HB2	2:I:2023:LEU:HD13	2.01	0.42
2:I:2536:LEU:O	2:I:2542:SER:OG	2.38	0.42
2:I:3069:HIS:NE2	2:I:3138:PRO:HB2	2.34	0.42
2:I:3071:LEU:HA	2:I:3074:SER:OG	2.20	0.42
2:I:3445:TRP:CE2	2:I:3452:LYS:HG2	2.55	0.42
2:I:3962:PHE:O	2:I:4026:MET:SD	2.78	0.42
2:I:4586:PRO:HG3	2:I:4629:TYR:CZ	2.54	0.42
2:A:345:LEU:HD21	2:A:389:PHE:CZ	2.55	0.42
2:A:498:THR:HA	2:A:553:ARG:HH22	1.84	0.42
2:A:2634:ASN:ND2	2:A:2636:PHE:HB2	2.35	0.42
2:A:3445:TRP:CE2	2:A:3452:LYS:HG2	2.55	0.42
2:A:3781:GLN:O	2:A:3784:SER:OG	2.32	0.42
2:A:3825:GLU:OE2	2:A:3827:GLY:N	2.53	0.42
2:A:3962:PHE:O	2:A:4026:MET:SD	2.78	0.42
2:G:41:GLY:O	2:G:45:ARG:NH1	2.50	0.42
2:G:183:SER:HB2	2:G:190:GLN:N	2.35	0.42
2:G:543:ASN:O	2:G:546:TRP:CB	2.68	0.42
2:G:568:LEU:HD23	2:G:568:LEU:HA	1.93	0.42
2:G:1634:LEU:HA	2:G:1634:LEU:HD12	1.79	0.42
2:G:2138:LEU:HA	2:G:2138:LEU:HD23	1.84	0.42
2:G:2332:LEU:O	2:G:2336:ARG:HG3	2.20	0.42
2:G:3249:LEU:O	2:G:3253:ILE:HG23	2.20	0.42
2:G:3445:TRP:CE2	2:G:3452:LYS:HG2	2.55	0.42
2:G:3991:GLY:O	2:G:3995:VAL:HG23	2.19	0.42
2:G:4039:MET:SD	2:G:4040:ILE:HG12	2.60	0.42
2:G:4979:THR:HG23	3:G:5301:ATP:N3	2.35	0.42
2:B:116:MET:HE2	2:B:139:GLU:CD	2.45	0.42
2:B:163:VAL:HG23	2:B:163:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:928:THR:O	2:B:931:THR:OG1	2.30	0.42
2:B:1435:TYR:CE1	2:B:1518:CYS:HB2	2.54	0.42
2:B:2198:MET:N	2:B:2198:MET:SD	2.93	0.42
2:B:2332:LEU:O	2:B:2336:ARG:HG3	2.20	0.42
2:B:2418:LEU:HG	2:B:2419:GLY:H	1.85	0.42
2:B:2912:THR:O	2:B:2916:LYS:N	2.46	0.42
2:B:3374:ALA:O	2:B:3377:GLU:N	2.51	0.42
2:B:3388:GLU:O	2:B:3392:LEU:HG	2.20	0.42
2:B:4071:ILE:HG13	2:B:4072:VAL:N	2.35	0.42
2:B:4848:VAL:HG11	2:B:4887:MET:HG2	2.02	0.42
2:B:4855:ALA:O	2:B:4859:PHE:N	2.52	0.42
2:I:543:ASN:O	2:I:546:TRP:CB	2.68	0.42
2:I:710:ASP:N	2:I:710:ASP:OD1	2.53	0.42
2:I:1076:ARG:NH2	2:I:1655:GLU:OE1	2.45	0.42
2:I:1252:HIS:CG	2:I:1253:PRO:HD2	2.55	0.42
2:I:1734:TYR:HB2	2:I:2140:ARG:O	2.20	0.42
2:I:2612:ARG:NE	2:I:2612:ARG:HA	2.35	0.42
2:I:3166:TYR:HB3	2:I:3239:MET:HE2	2.02	0.42
2:I:3171:SER:O	2:I:3174:SER:OG	2.32	0.42
2:I:3947:GLY:HA2	2:I:3950:ASN:HD22	1.84	0.42
2:A:102:LEU:HB2	2:A:105:HIS:HD2	1.85	0.41
2:A:214:VAL:HG22	2:A:341:TYR:CE1	2.55	0.41
2:A:681:HIS:HB3	2:A:784:SER:HB3	2.02	0.41
2:A:1297:PHE:CE1	2:A:1548:LEU:HD12	2.55	0.41
2:A:1985:THR:C	2:A:1987:SER:H	2.28	0.41
2:A:2700:MET:HB3	2:A:2701:PRO:HD3	2.02	0.41
2:A:3037:GLU:OE2	2:A:3078:ARG:NH2	2.50	0.41
2:A:3170:CYS:SG	2:A:3240:CYS:HB2	2.60	0.41
2:A:3847:PHE:HZ	2:A:3943:ILE:HD11	1.84	0.41
2:G:215:THR:HG1	2:G:218:HIS:CE1	2.38	0.41
2:G:719:LEU:HB2	2:G:720:HIS:CE1	2.55	0.41
2:G:971:ASP:OD1	2:G:971:ASP:N	2.51	0.41
2:G:1698:LEU:HG	2:G:1712:TYR:CZ	2.55	0.41
2:G:1985:THR:C	2:G:1987:SER:H	2.28	0.41
2:G:2634:ASN:ND2	2:G:2636:PHE:HB2	2.35	0.41
2:G:2714:TYR:HE2	2:G:2716:ASP:OD1	2.02	0.41
2:G:2743:LEU:HD12	2:G:2743:LEU:H	1.84	0.41
2:G:2822:THR:OG1	2:G:2938:THR:OG1	2.36	0.41
2:G:3015:LEU:HB3	2:G:3025:LEU:O	2.20	0.41
2:G:3443:ILE:HG23	2:G:3605:HIS:CE1	2.55	0.41
2:B:21:VAL:HB	2:B:36:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:74:SER:OG	2:B:77:ALA:N	2.45	0.41
2:B:345:LEU:HD21	2:B:389:PHE:CZ	2.55	0.41
2:B:774:ASP:OD1	2:B:774:ASP:N	2.47	0.41
2:B:1047:LEU:C	2:B:1049:TYR:H	2.28	0.41
2:B:2362:GLU:HB2	2:B:2369:ARG:NH2	2.34	0.41
2:B:2536:LEU:O	2:B:2542:SER:OG	2.38	0.41
2:B:2653:LYS:O	2:B:2657:LEU:HB2	2.20	0.41
2:B:2712:PRO:HB3	2:B:2956:ALA:HB2	2.01	0.41
2:B:3962:PHE:O	2:B:4026:MET:SD	2.78	0.41
2:B:4049:VAL:HG12	2:B:4163:PHE:HZ	1.85	0.41
2:B:4721:LYS:HG3	2:B:4741:LEU:HD22	2.02	0.41
2:B:4772:ASP:OD2	2:B:4772:ASP:N	2.46	0.41
2:B:4922:PHE:O	2:B:4927:ILE:HG12	2.19	0.41
2:B:4927:ILE:HG13	2:B:4928:LEU:H	1.85	0.41
2:I:355:LEU:HB3	2:I:378:LEU:HB3	2.02	0.41
2:I:983:THR:HB	2:I:1055:PRO:HG3	2.01	0.41
2:I:1007:TYR:CG	2:I:1008:SER:N	2.88	0.41
2:I:1679:ASN:ND2	2:I:1797:ARG:O	2.53	0.41
2:I:1985:THR:C	2:I:1987:SER:H	2.28	0.41
2:I:2198:MET:SD	2:I:2198:MET:N	2.93	0.41
2:I:2297:LYS:O	2:I:2301:TYR:HD2	2.03	0.41
2:I:2333:ASP:HA	2:I:2336:ARG:NE	2.34	0.41
2:I:2712:PRO:HB3	2:I:2956:ALA:HB2	2.01	0.41
2:I:2933:ASN:HB3	2:I:2935:TYR:CD1	2.55	0.41
2:I:3107:VAL:O	2:I:3111:ARG:NH2	2.53	0.41
2:I:3802:ILE:O	2:I:3806:ASN:N	2.53	0.41
2:A:697:GLY:CA	2:A:1636:MET:HE1	2.50	0.41
2:A:1039:LEU:HD13	2:A:1039:LEU:HA	1.89	0.41
2:A:1290:ARG:HD2	2:A:1549:PHE:CD2	2.55	0.41
2:A:1985:THR:O	2:A:1986:MET:HB3	2.19	0.41
2:A:2822:THR:OG1	2:A:2938:THR:OG1	2.36	0.41
2:A:3313:ASN:HD22	2:A:3350:ARG:HB2	1.86	0.41
2:A:3390:GLY:HA2	2:A:3393:LEU:HD12	2.03	0.41
2:A:3965:LEU:HA	2:A:3968:TYR:CD2	2.55	0.41
2:A:4026:MET:HB3	2:A:4026:MET:HE3	1.51	0.41
2:A:4231:MET:CG	2:A:4959:PHE:HE2	2.32	0.41
1:H:82:TYR:CD1	1:H:87:HIS:HB2	2.55	0.41
1:J:26:TYR:HD1	1:J:26:TYR:H	1.66	0.41
2:G:14:LEU:N	2:G:163:VAL:HG23	2.35	0.41
2:G:116:MET:HE2	2:G:139:GLU:CD	2.45	0.41
2:G:181:HIS:HA	2:G:198:THR:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:274:LEU:HA	2:G:278:GLN:NE2	2.35	0.41
2:G:2474:LEU:HD23	2:G:2499:LYS:HZ3	1.84	0.41
2:G:2595:LEU:O	2:G:2596:THR:OG1	2.30	0.41
2:G:3071:LEU:HA	2:G:3074:SER:OG	2.20	0.41
2:G:3132:THR:HG23	2:G:3136:LEU:HB2	2.01	0.41
2:G:3903:LEU:HD23	2:G:3903:LEU:HA	1.80	0.41
2:G:4241:THR:HA	2:G:4244:GLU:OE1	2.20	0.41
2:G:4656:LEU:HA	2:G:4659:ILE:HG12	2.02	0.41
2:B:28:VAL:O	2:B:29:LEU:HD23	2.21	0.41
2:B:355:LEU:HB3	2:B:378:LEU:HB3	2.03	0.41
2:B:871:ARG:NE	2:B:922:LEU:HD12	2.35	0.41
2:B:1985:THR:C	2:B:1987:SER:H	2.28	0.41
2:B:2021:CYS:HB2	2:B:2023:LEU:HD13	2.01	0.41
2:B:2512:ILE:HG22	2:B:2517:PHE:CD2	2.55	0.41
2:B:2595:LEU:O	2:B:2596:THR:OG1	2.30	0.41
2:B:2933:ASN:HB3	2:B:2935:TYR:CD1	2.56	0.41
2:B:3071:LEU:HA	2:B:3074:SER:OG	2.20	0.41
2:B:3269:VAL:O	2:B:3273:THR:N	2.51	0.41
2:B:3274:LEU:HB3	2:B:3275:PRO:HD3	2.02	0.41
2:B:3641:LEU:HD13	2:B:3644:LEU:HD12	2.01	0.41
2:B:3802:ILE:O	2:B:3806:ASN:N	2.53	0.41
2:B:3965:LEU:HA	2:B:3968:TYR:CD2	2.55	0.41
2:B:4578:LEU:CD1	2:I:4849:TYR:HE1	2.27	0.41
2:I:21:VAL:HB	2:I:36:CYS:SG	2.61	0.41
2:I:28:VAL:O	2:I:29:LEU:HD23	2.20	0.41
2:I:215:THR:OG1	2:I:218:HIS:NE2	2.53	0.41
2:I:274:LEU:HA	2:I:278:GLN:NE2	2.35	0.41
2:I:293:LEU:HD11	2:I:355:LEU:HD12	2.02	0.41
2:I:721:LEU:HD23	2:I:721:LEU:HA	1.85	0.41
2:I:1047:LEU:C	2:I:1049:TYR:H	2.28	0.41
2:I:1202:LEU:HD12	2:I:1202:LEU:HA	1.79	0.41
2:I:1717:SER:HA	2:I:1721:GLU:CG	2.48	0.41
2:I:2700:MET:HB3	2:I:2701:PRO:HD3	2.02	0.41
2:I:3141:THR:HG21	2:I:3192:GLU:OE1	2.20	0.41
2:I:3249:LEU:O	2:I:3253:ILE:HG23	2.20	0.41
2:I:3257:ALA:HB2	2:I:3322:ILE:HG13	2.03	0.41
2:I:3734:HIS:C	2:I:3735:LEU:HD12	2.46	0.41
2:I:3965:LEU:HD13	2:I:3968:TYR:HD2	1.86	0.41
2:I:4848:VAL:HG11	2:I:4887:MET:HG2	2.02	0.41
2:I:4990:PHE:CD1	2:I:4993:MET:HE2	2.55	0.41
1:F:82:TYR:CD1	1:F:87:HIS:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:35:LEU:CB	2:A:49:LEU:HD12	2.51	0.41
2:A:259:LEU:HD22	2:A:393:CYS:SG	2.60	0.41
2:A:543:ASN:O	2:A:546:TRP:CB	2.68	0.41
2:A:871:ARG:NE	2:A:922:LEU:HD12	2.35	0.41
2:A:983:THR:HB	2:A:1055:PRO:HG3	2.01	0.41
2:A:1469:VAL:CG2	2:A:1492:CYS:HB3	2.50	0.41
2:A:1698:LEU:HG	2:A:1712:TYR:CZ	2.55	0.41
2:A:2198:MET:SD	2:A:2198:MET:N	2.93	0.41
2:A:2362:GLU:HB2	2:A:2369:ARG:NH2	2.34	0.41
2:A:2647:HIS:O	2:A:2651:CYS:N	2.34	0.41
2:A:3158:LEU:O	2:A:3162:GLN:NE2	2.50	0.41
2:A:3354:LEU:O	2:A:3358:PHE:HB3	2.20	0.41
2:A:3508:SER:O	2:A:3511:VAL:HG22	2.21	0.41
2:A:4045:VAL:O	2:A:4049:VAL:HG13	2.21	0.41
2:A:4823:LEU:CD1	2:B:4843:LEU:HB2	2.47	0.41
2:A:4933:GLN:O	2:A:4937:ILE:HG12	2.20	0.41
2:A:4979:THR:HG23	3:A:5301:ATP:N3	2.35	0.41
2:G:293:LEU:HD11	2:G:355:LEU:HD12	2.02	0.41
2:G:378:LEU:HD23	2:G:378:LEU:HA	1.85	0.41
2:G:2211:MET:HA	2:G:2214:VAL:HG12	2.03	0.41
2:G:2477:PRO:HD2	2:G:2536:LEU:HD11	2.01	0.41
2:G:2894:LEU:HG	2:G:2899:GLY:HA2	2.02	0.41
2:G:3246:LEU:HA	2:G:3249:LEU:HG	2.03	0.41
2:G:3372:VAL:HG21	2:G:3397:GLU:HB3	2.02	0.41
2:G:3508:SER:O	2:G:3511:VAL:HG22	2.21	0.41
2:G:3734:HIS:C	2:G:3735:LEU:HD12	2.46	0.41
2:B:343:GLU:HG2	2:B:344:SER:N	2.35	0.41
2:B:537:CYS:SG	2:B:570:GLU:HB3	2.60	0.41
2:B:689:THR:OG1	2:B:776:LEU:HB2	2.20	0.41
2:B:1252:HIS:CG	2:B:1253:PRO:HD2	2.55	0.41
2:B:1476:MET:HB2	2:B:1485:SER:OG	2.21	0.41
2:B:1679:ASN:ND2	2:B:1797:ARG:O	2.53	0.41
2:B:2138:LEU:HD23	2:B:2138:LEU:HA	1.84	0.41
2:B:3046:LEU:O	2:B:3050:VAL:N	2.49	0.41
2:B:3141:THR:HG21	2:B:3192:GLU:OE1	2.20	0.41
2:B:3313:ASN:HD22	2:B:3350:ARG:HB2	1.86	0.41
2:B:3542:LEU:O	2:B:3542:LEU:HD23	2.19	0.41
2:B:3580:PRO:HA	2:B:3582:ARG:HH11	1.86	0.41
2:I:116:MET:HE2	2:I:139:GLU:CD	2.45	0.41
2:I:149:THR:HG22	2:I:150:MET:N	2.30	0.41
2:I:341:TYR:OH	2:I:392:ARG:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:343:GLU:HG2	2:I:344:SER:N	2.35	0.41
2:I:904:HIS:N	2:I:905:PRO:HD3	2.35	0.41
2:I:1101:ARG:HD2	2:I:1115:LEU:HB2	2.02	0.41
2:I:2894:LEU:HG	2:I:2899:GLY:HA2	2.02	0.41
2:I:3246:LEU:HA	2:I:3249:LEU:HG	2.03	0.41
2:I:3583:GLU:CD	2:I:3584:GLU:H	2.28	0.41
2:I:4157:ASP:N	2:I:4161:ARG:NH1	2.62	0.41
2:I:4241:THR:HA	2:I:4244:GLU:OE1	2.20	0.41
2:A:343:GLU:HG2	2:A:344:SER:N	2.35	0.41
2:A:689:THR:OG1	2:A:776:LEU:HB2	2.20	0.41
2:A:1230:MET:HE1	2:A:1828:ASP:HA	2.03	0.41
2:A:1575:LEU:HA	2:A:1575:LEU:HD23	1.77	0.41
2:A:2418:LEU:HG	2:A:2419:GLY:H	1.85	0.41
2:A:2512:ILE:HG22	2:A:2517:PHE:CD2	2.55	0.41
2:A:2531:ARG:HA	2:A:2588:ARG:NH2	2.26	0.41
2:A:2624:ARG:NH2	2:A:2906:VAL:HG21	2.32	0.41
2:A:2670:GLU:HG2	2:A:2913:ALA:H	1.86	0.41
2:A:2886:TRP:O	2:A:2890:LYS:HG2	2.21	0.41
2:A:4039:MET:SD	2:A:4040:ILE:HG12	2.60	0.41
2:A:4922:PHE:O	2:A:4927:ILE:HG12	2.19	0.41
2:G:35:LEU:CB	2:G:49:LEU:HD12	2.51	0.41
2:G:207:SER:OG	2:G:208:CYS:N	2.54	0.41
2:G:259:LEU:HD22	2:G:393:CYS:SG	2.60	0.41
2:G:426:ARG:HG3	2:G:505:GLU:O	2.21	0.41
2:G:498:THR:HA	2:G:553:ARG:HH22	1.84	0.41
2:G:774:ASP:OD1	2:G:774:ASP:N	2.47	0.41
2:G:904:HIS:N	2:G:905:PRO:HD3	2.36	0.41
2:G:1047:LEU:C	2:G:1049:TYR:H	2.28	0.41
2:G:1076:ARG:NH2	2:G:1655:GLU:OE1	2.45	0.41
2:G:1985:THR:O	2:G:1986:MET:HB3	2.19	0.41
2:G:2562:ILE:HA	2:G:2565:CYS:SG	2.60	0.41
2:G:3274:LEU:HB3	2:G:3275:PRO:HD3	2.01	0.41
2:G:3313:ASN:HD22	2:G:3350:ARG:HB2	1.86	0.41
2:G:3465:ASN:OD1	2:G:3467:MET:N	2.54	0.41
2:G:3527:PRO:C	2:G:3529:ASP:H	2.28	0.41
2:G:4185:GLY:HA3	2:G:4189:ARG:N	2.36	0.41
2:G:4755:GLU:O	2:G:4756:ARG:NE	2.54	0.41
2:B:1297:PHE:CE1	2:B:1548:LEU:HD12	2.55	0.41
2:B:2968:ASP:O	2:B:2971:GLN:HB2	2.20	0.41
2:B:3067:CYS:HA	2:B:3070:ILE:HG12	2.02	0.41
2:B:3166:TYR:HB3	2:B:3239:MET:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3301:PRO:HA	2:B:3302:PRO:HD3	1.91	0.41
2:B:3354:LEU:O	2:B:3358:PHE:HB3	2.21	0.41
2:B:3443:ILE:HG23	2:B:3605:HIS:CE1	2.55	0.41
2:B:4755:GLU:O	2:B:4756:ARG:NE	2.54	0.41
2:B:4933:GLN:O	2:B:4937:ILE:HG12	2.20	0.41
2:I:743:VAL:HG11	2:I:801:LYS:HB2	2.01	0.41
2:I:983:THR:HG22	2:I:987:ARG:HH12	1.85	0.41
2:I:1286:MET:HB3	2:I:1286:MET:HE2	1.78	0.41
2:I:1435:TYR:CE1	2:I:1518:CYS:HB2	2.54	0.41
2:I:1477:GLY:HA2	2:I:1483:VAL:HA	2.01	0.41
2:I:1573:MET:HE2	2:I:1573:MET:HB3	1.87	0.41
2:I:1698:LEU:HG	2:I:1712:TYR:CZ	2.55	0.41
2:I:2156:LEU:HD23	2:I:2156:LEU:HA	1.93	0.41
2:I:2477:PRO:HD2	2:I:2536:LEU:HD11	2.01	0.41
2:I:2886:TRP:O	2:I:2890:LYS:HG2	2.21	0.41
2:I:3067:CYS:O	2:I:3068:LEU:C	2.64	0.41
2:I:3586:ALA:HA	2:I:3591:LYS:HE2	2.03	0.41
2:I:4979:THR:HG23	3:I:5301:ATP:N3	2.35	0.41
2:A:904:HIS:N	2:A:905:PRO:HD3	2.36	0.41
2:A:1247:PRO:HA	2:A:1598:GLN:HG2	2.02	0.41
2:A:2284:ASN:HB2	2:A:3858:MET:SD	2.61	0.41
2:A:3263:TYR:H	2:A:3326:ASN:HD21	1.67	0.41
2:A:3527:PRO:C	2:A:3529:ASP:H	2.28	0.41
2:A:3734:HIS:C	2:A:3735:LEU:HD12	2.46	0.41
2:A:4713:SER:HB3	2:A:4775:TYR:OH	2.20	0.41
2:A:4848:VAL:HG11	2:A:4887:MET:HG2	2.02	0.41
2:A:4860:ARG:NH2	2:G:4630:TYR:OH	2.45	0.41
2:A:4990:PHE:CD1	2:A:4993:MET:HE2	2.55	0.41
2:G:21:VAL:HB	2:G:36:CYS:SG	2.60	0.41
2:G:214:VAL:HG22	2:G:341:TYR:CE1	2.55	0.41
2:G:355:LEU:HB3	2:G:378:LEU:HB3	2.03	0.41
2:G:949:ASN:HB3	2:G:974:HIS:HE2	1.84	0.41
2:G:1230:MET:HE1	2:G:1828:ASP:HA	2.03	0.41
2:G:1476:MET:HB2	2:G:1485:SER:OG	2.21	0.41
2:G:2198:MET:N	2:G:2198:MET:SD	2.93	0.41
2:G:2512:ILE:HG22	2:G:2517:PHE:CD2	2.55	0.41
2:G:2612:ARG:HA	2:G:2612:ARG:NE	2.35	0.41
2:G:2700:MET:HB3	2:G:2701:PRO:HD3	2.02	0.41
2:G:3103:ILE:O	2:G:3107:VAL:HG22	2.21	0.41
2:G:4848:VAL:HG11	2:G:4887:MET:HG2	2.02	0.41
2:B:543:ASN:O	2:B:546:TRP:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1202:LEU:HD12	2:B:1202:LEU:HA	1.79	0.41
2:B:2290:LEU:HD23	2:B:2290:LEU:HA	1.85	0.41
2:B:2748:PRO:HD2	2:B:2751:LEU:HD12	2.03	0.41
2:B:3527:PRO:C	2:B:3529:ASP:N	2.79	0.41
2:B:4045:VAL:O	2:B:4049:VAL:HG13	2.21	0.41
2:I:877:ASN:HD22	2:I:877:ASN:C	2.27	0.41
2:I:1247:PRO:HA	2:I:1598:GLN:HG2	2.02	0.41
2:I:2135:LEU:HD11	2:I:3663:LEU:HG	2.03	0.41
2:I:2748:PRO:HD2	2:I:2751:LEU:HD12	2.03	0.41
2:I:3067:CYS:HA	2:I:3070:ILE:HG12	2.03	0.41
2:I:3274:LEU:HB3	2:I:3275:PRO:HD3	2.02	0.41
2:I:3313:ASN:HD22	2:I:3350:ARG:HB2	1.86	0.41
2:I:3767:GLN:NE2	2:I:3804:ILE:O	2.54	0.41
2:A:215:THR:OG1	2:A:218:HIS:NE2	2.53	0.41
2:A:355:LEU:HB3	2:A:378:LEU:HB3	2.02	0.41
2:A:1476:MET:HB2	2:A:1485:SER:OG	2.21	0.41
2:A:3103:ILE:O	2:A:3107:VAL:HG22	2.21	0.41
2:A:3443:ILE:HG23	2:A:3605:HIS:CE1	2.55	0.41
2:A:3540:TYR:HE2	2:A:3549:VAL:HG21	1.86	0.41
2:A:3767:GLN:NE2	2:A:3804:ILE:O	2.54	0.41
2:A:4927:ILE:HG13	2:A:4928:LEU:H	1.85	0.41
1:J:90:VAL:C	1:J:91:ILE:HD13	2.46	0.41
2:G:28:VAL:O	2:G:29:LEU:HD23	2.20	0.41
2:G:866:HIS:NE2	2:G:939:VAL:HG23	2.36	0.41
2:G:1297:PHE:CE1	2:G:1548:LEU:HD12	2.55	0.41
2:G:1433:TYR:CD1	2:G:1573:MET:HB2	2.56	0.41
2:G:1839:VAL:HB	2:G:1840:PRO:HD3	2.03	0.41
2:G:2135:LEU:HD11	2:G:3663:LEU:HG	2.03	0.41
2:G:2366:PRO:HA	2:G:2369:ARG:NE	2.36	0.41
2:G:2754:PHE:CZ	2:G:2930:LEU:HG	2.56	0.41
2:G:3033:ASN:OD1	2:G:3033:ASN:N	2.53	0.41
2:G:3067:CYS:HA	2:G:3070:ILE:HG12	2.02	0.41
2:G:3632:VAL:HG22	2:G:3633:VAL:H	1.86	0.41
2:G:4045:VAL:O	2:G:4049:VAL:HG13	2.21	0.41
2:G:4672:LYS:HZ3	2:G:4675:LYS:NZ	2.18	0.41
2:B:35:LEU:CB	2:B:49:LEU:HD12	2.51	0.41
2:B:144:GLU:HG3	2:B:175:SER:HA	2.01	0.41
2:B:1101:ARG:HD2	2:B:1115:LEU:HB2	2.02	0.41
2:B:2284:ASN:HB2	2:B:3858:MET:SD	2.61	0.41
2:B:3033:ASN:OD1	2:B:3033:ASN:N	2.53	0.41
2:B:3107:VAL:O	2:B:3111:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3465:ASN:OD1	2:B:3467:MET:N	2.54	0.41
2:B:4000:MET:HE2	2:B:4000:MET:HB2	1.85	0.41
2:B:4743:MET:HE2	2:B:4743:MET:HB3	1.97	0.41
2:B:4995:LEU:HD21	2:B:5007:GLU:HG3	2.01	0.41
2:I:14:LEU:N	2:I:163:VAL:HG23	2.35	0.41
2:I:158:SER:H	2:I:161:GLU:CD	2.21	0.41
2:I:719:LEU:HB2	2:I:720:HIS:CE1	2.56	0.41
2:I:906:CYS:HA	2:I:963:ASN:OD1	2.21	0.41
2:I:1230:MET:HE1	2:I:1828:ASP:HA	2.02	0.41
2:I:1297:PHE:CE1	2:I:1548:LEU:HD12	2.55	0.41
2:I:1476:MET:HB2	2:I:1485:SER:OG	2.21	0.41
2:I:2519:LEU:HD21	2:I:2575:ARG:HE	1.85	0.41
2:I:2770:LYS:HD3	2:I:2791:LEU:HD21	2.02	0.41
2:I:3719:ASP:H	2:I:3793:MET:HE1	1.85	0.41
2:A:28:VAL:O	2:A:29:LEU:HD23	2.21	0.41
2:A:116:MET:HE2	2:A:139:GLU:CD	2.45	0.41
2:A:293:LEU:HD11	2:A:355:LEU:HD12	2.02	0.41
2:A:426:ARG:HG3	2:A:505:GLU:O	2.21	0.41
2:A:537:CYS:SG	2:A:570:GLU:HB3	2.60	0.41
2:A:719:LEU:HB2	2:A:720:HIS:CE1	2.55	0.41
2:A:1024:TYR:CZ	2:A:1032:LYS:HG2	2.56	0.41
2:A:1101:ARG:HD2	2:A:1115:LEU:HB2	2.02	0.41
2:A:1839:VAL:HB	2:A:1840:PRO:HD3	2.03	0.41
2:A:2186:MET:SD	2:A:2235:PHE:HD2	2.44	0.41
2:A:2244:ARG:CZ	2:A:3860:ASN:HD21	2.34	0.41
2:A:2371:GLU:HA	2:B:128:THR:O	2.19	0.41
2:A:2457:LEU:HD22	2:A:2505:PHE:HE1	1.86	0.41
2:A:2562:ILE:HA	2:A:2565:CYS:SG	2.60	0.41
2:A:2711:PRO:HA	2:A:2712:PRO:HD3	1.89	0.41
2:A:2719:TYR:OH	2:A:2953:LYS:O	2.26	0.41
2:A:2770:LYS:HD3	2:A:2791:LEU:HD21	2.02	0.41
2:A:3067:CYS:O	2:A:3068:LEU:C	2.64	0.41
2:A:3141:THR:HG21	2:A:3192:GLU:OE1	2.20	0.41
2:A:3170:CYS:HA	2:A:3240:CYS:SG	2.61	0.41
2:A:3903:LEU:HD23	2:A:3903:LEU:HA	1.80	0.41
2:G:1252:HIS:CG	2:G:1253:PRO:HD2	2.55	0.41
2:G:2186:MET:SD	2:G:2235:PHE:HD2	2.44	0.41
2:G:2290:LEU:HD23	2:G:2290:LEU:HA	1.85	0.41
2:G:2307:LEU:O	2:G:2307:LEU:HG	2.21	0.41
2:G:2536:LEU:O	2:G:2542:SER:OG	2.38	0.41
2:G:2750[B]:LYS:H	2:G:2750[B]:LYS:HG3	1.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2933:ASN:HB3	2:G:2935:TYR:CD1	2.56	0.41
2:G:3170:CYS:HA	2:G:3240:CYS:SG	2.61	0.41
2:G:3390:GLY:HA2	2:G:3393:LEU:HD12	2.03	0.41
2:G:3540:TYR:HE2	2:G:3549:VAL:HG21	1.86	0.41
2:G:4871:GLU:HG2	2:G:4871:GLU:O	2.21	0.41
2:B:181:HIS:HA	2:B:198:THR:CG2	2.50	0.41
2:B:259:LEU:HD22	2:B:393:CYS:SG	2.60	0.41
2:B:1292:SER:HB3	2:B:1596:GLU:HG2	2.03	0.41
2:B:2110:TYR:O	2:B:2112:GLN:NE2	2.53	0.41
2:B:2314:LEU:HA	2:B:2318:TYR:HD2	1.85	0.41
2:B:2475:GLN:HB2	2:B:2488:PRO:HG2	2.03	0.41
2:B:2612:ARG:HA	2:B:2612:ARG:NE	2.35	0.41
2:B:3103:ILE:O	2:B:3107:VAL:HG22	2.21	0.41
2:B:3445:TRP:CE2	2:B:3452:LYS:HG2	2.55	0.41
2:B:3583:GLU:CD	2:B:3584:GLU:H	2.29	0.41
2:B:3825:GLU:OE2	2:B:3827:GLY:N	2.53	0.41
2:B:4713:SER:HB3	2:B:4775:TYR:OH	2.20	0.41
2:B:4823:LEU:CD1	2:I:4843:LEU:HB2	2.47	0.41
2:I:697:GLY:CA	2:I:1636:MET:HE1	2.50	0.41
2:I:803:LEU:HD23	2:I:804:PRO:O	2.20	0.41
2:I:1695:LEU:HB3	2:I:1810:LYS:NZ	2.35	0.41
2:I:1805:GLU:OE1	2:I:1805:GLU:N	2.52	0.41
2:I:3354:LEU:O	2:I:3358:PHE:HB3	2.21	0.41
2:I:4039:MET:SD	2:I:4040:ILE:HG12	2.60	0.41
2:I:4927:ILE:HG13	2:I:4928:LEU:H	1.85	0.41
1:F:106:LEU:HD12	1:F:106:LEU:HA	1.72	0.41
2:A:887:ILE:HD12	2:A:887:ILE:HA	1.94	0.41
2:A:2748:PRO:HD2	2:A:2751:LEU:HD12	2.03	0.41
2:A:2766:TRP:CE2	2:A:2770:LYS:HD2	2.56	0.41
2:A:2933:ASN:HB3	2:A:2935:TYR:CD1	2.56	0.41
2:A:3632:VAL:HG22	2:A:3633:VAL:H	1.86	0.41
2:A:3828:PHE:O	2:A:3831:SER:OG	2.39	0.41
2:G:1103:GLY:HA3	2:G:1123:VAL:HA	2.03	0.41
2:G:1202:LEU:HD12	2:G:1202:LEU:HA	1.79	0.41
2:G:1679:ASN:ND2	2:G:1797:ARG:O	2.53	0.41
2:G:2155:LEU:HD12	2:G:2185:ILE:HD13	2.02	0.41
2:G:2314:LEU:HA	2:G:2318:TYR:HD2	1.85	0.41
2:G:2319:PRO:HD3	2:G:2393:ASP:HA	2.03	0.41
2:G:2475:GLN:HB2	2:G:2488:PRO:HG2	2.03	0.41
2:G:2886:TRP:O	2:G:2890:LYS:HG2	2.21	0.41
2:G:3225:ARG:NH2	2:G:3225:ARG:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3263:TYR:H	2:G:3326:ASN:HD21	1.67	0.41
2:G:3583:GLU:CD	2:G:3584:GLU:H	2.29	0.41
2:G:3781:GLN:O	2:G:3784:SER:OG	2.32	0.41
2:G:4071:ILE:HG13	2:G:4072:VAL:N	2.35	0.41
2:G:4927:ILE:HG13	2:G:4928:LEU:H	1.85	0.41
2:B:214:VAL:HG22	2:B:341:TYR:CE1	2.55	0.41
2:B:274:LEU:HA	2:B:278:GLN:NE2	2.35	0.41
2:B:681:HIS:HB3	2:B:784:SER:HB3	2.02	0.41
2:B:861:ILE:HG21	2:B:930:LYS:HA	2.03	0.41
2:B:906:CYS:HA	2:B:963:ASN:OD1	2.21	0.41
2:B:1433:TYR:CD1	2:B:1573:MET:HB2	2.56	0.41
2:B:2538:THR:O	2:B:2542:SER:OG	2.28	0.41
2:B:2883:HIS:NE2	2:B:2906:VAL:O	2.39	0.41
2:B:3246:LEU:HA	2:B:3249:LEU:HG	2.02	0.41
2:B:3372:VAL:HG21	2:B:3397:GLU:HB3	2.02	0.41
2:B:3390:GLY:HA2	2:B:3393:LEU:HD12	2.02	0.41
2:B:3734:HIS:C	2:B:3735:LEU:HD12	2.46	0.41
2:B:3924:LEU:HA	2:B:3924:LEU:HD23	1.89	0.41
2:B:3970:GLN:HE22	2:B:5004:THR:HA	1.86	0.41
2:B:4049:VAL:HG12	2:B:4163:PHE:CE2	2.56	0.41
2:I:805:PRO:O	2:I:808:TYR:HB2	2.21	0.41
2:I:1024:TYR:CZ	2:I:1032:LYS:HG2	2.56	0.41
2:I:1103:GLY:HA3	2:I:1123:VAL:HA	2.03	0.41
2:I:1230:MET:HE1	2:I:1827:ARG:O	2.21	0.41
2:I:1292:SER:HB3	2:I:1596:GLU:HG2	2.03	0.41
2:I:1808:ARG:HG3	2:I:1854:PHE:CE1	2.56	0.41
2:I:2138:LEU:HA	2:I:2138:LEU:HD23	1.84	0.41
2:I:2296:GLU:HG3	2:I:2356:LEU:HD11	2.03	0.41
2:I:2623:LEU:HD22	2:I:2674:LEU:HG	2.03	0.41
2:I:3206:LEU:HB2	2:I:3280:TYR:OH	2.21	0.41
2:I:3445:TRP:HA	2:I:3451:PHE:CD1	2.54	0.41
2:I:4855:ALA:O	2:I:4859:PHE:N	2.52	0.41
1:F:79:ASP:OD1	1:F:79:ASP:C	2.64	0.41
1:F:90:VAL:C	1:F:91:ILE:HD13	2.46	0.41
2:A:274:LEU:HA	2:A:278:GLN:NE2	2.35	0.41
2:A:721:LEU:HD23	2:A:721:LEU:HA	1.85	0.41
2:A:805:PRO:O	2:A:808:TYR:HB2	2.21	0.41
2:A:870:ILE:HD11	2:A:1049:TYR:CD2	2.56	0.41
2:A:1100:MET:HE2	2:A:1100:MET:HB3	1.91	0.41
2:A:1103:GLY:HA3	2:A:1123:VAL:HA	2.03	0.41
2:A:1122:TYR:HE1	2:A:1133:HIS:CD2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1156:THR:OG1	2:A:1157:GLU:OE1	2.20	0.41
2:A:1433:TYR:CD1	2:A:1573:MET:HB2	2.56	0.41
2:A:1996:ARG:HD2	2:A:1997:GLU:N	2.36	0.41
2:A:2014:ASP:C	2:A:2016:ALA:H	2.29	0.41
2:A:2110:TYR:O	2:A:2112:GLN:NE2	2.53	0.41
2:A:2138:LEU:HA	2:A:2138:LEU:HD23	1.84	0.41
2:A:2228:MET:HE2	2:A:2228:MET:HB2	1.85	0.41
2:A:2307:LEU:HG	2:A:2307:LEU:O	2.21	0.41
2:A:2457:LEU:O	2:A:2460:LEU:HB3	2.21	0.41
2:A:2475:GLN:HB2	2:A:2488:PRO:HG2	2.03	0.41
2:A:2536:LEU:O	2:A:2542:SER:OG	2.38	0.41
2:A:2754:PHE:CZ	2:A:2930:LEU:HG	2.56	0.41
2:A:3015:LEU:HB3	2:A:3025:LEU:O	2.20	0.41
2:A:3246:LEU:HA	2:A:3249:LEU:HG	2.03	0.41
2:A:3249:LEU:O	2:A:3253:ILE:HG23	2.20	0.41
2:A:3271:GLU:CD	2:A:3337:ARG:HH11	2.29	0.41
2:A:3465:ASN:OD1	2:A:3467:MET:N	2.54	0.41
2:A:3527:PRO:C	2:A:3529:ASP:N	2.79	0.41
2:A:4185:GLY:HA3	2:A:4189:ARG:N	2.36	0.41
2:A:4843:LEU:HD23	2:A:4928:LEU:HD11	2.03	0.41
1:H:90:VAL:C	1:H:91:ILE:HD13	2.46	0.41
1:H:106:LEU:HD12	1:H:106:LEU:HA	1.72	0.41
2:G:320:LYS:HD3	2:G:356:TRP:CZ3	2.56	0.41
2:G:343:GLU:HG2	2:G:344:SER:N	2.35	0.41
2:G:681:HIS:HB3	2:G:784:SER:HB3	2.02	0.41
2:G:983:THR:HG22	2:G:987:ARG:HH12	1.85	0.41
2:G:1734:TYR:HB2	2:G:2140:ARG:O	2.20	0.41
2:G:2296:GLU:HG3	2:G:2356:LEU:HD11	2.03	0.41
2:G:2418:LEU:HG	2:G:2419:GLY:H	1.85	0.41
2:G:2457:LEU:O	2:G:2460:LEU:HB3	2.21	0.41
2:G:2620:GLN:O	2:G:2623:LEU:HB3	2.21	0.41
2:G:2623:LEU:HD22	2:G:2674:LEU:HG	2.03	0.41
2:G:2624:ARG:NH2	2:G:2911:LEU:HA	2.36	0.41
2:G:2748:PRO:HD2	2:G:2751:LEU:HD12	2.03	0.41
2:G:2816:MET:HG2	2:G:2878:LEU:HD21	2.03	0.41
2:G:2968:ASP:O	2:G:2971:GLN:HB2	2.20	0.41
2:G:3141:THR:HG21	2:G:3192:GLU:OE1	2.20	0.41
2:G:3206:LEU:HB2	2:G:3280:TYR:OH	2.21	0.41
2:G:3225:ARG:HB3	2:G:3225:ARG:CZ	2.51	0.41
2:G:3586:ALA:HA	2:G:3591:LYS:HE2	2.03	0.41
2:G:3767:GLN:NE2	2:G:3804:ILE:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3877:ASP:OD2	2:G:3877:ASP:N	2.48	0.41
2:B:719:LEU:HB2	2:B:720:HIS:CE1	2.55	0.41
2:B:803:LEU:HD23	2:B:804:PRO:O	2.20	0.41
2:B:805:PRO:O	2:B:808:TYR:HB2	2.21	0.41
2:B:1024:TYR:CZ	2:B:1032:LYS:HG2	2.56	0.41
2:B:1089:TYR:CD2	2:B:1152:MET:HG3	2.52	0.41
2:B:1103:GLY:HA3	2:B:1123:VAL:HA	2.03	0.41
2:B:1156:THR:OG1	2:B:1157:GLU:OE1	2.20	0.41
2:B:1734:TYR:HB2	2:B:2140:ARG:O	2.20	0.41
2:B:1839:VAL:HB	2:B:1840:PRO:HD3	2.03	0.41
2:B:2014:ASP:C	2:B:2016:ALA:H	2.29	0.41
2:B:2447:LYS:HG3	2:B:2449:GLU:HB3	2.03	0.41
2:B:2498:HIS:O	2:B:2501:SER:OG	2.28	0.41
2:B:2700:MET:HB3	2:B:2701:PRO:HD3	2.03	0.41
2:B:2707:ALA:HB1	2:B:3009:TYR:CD1	2.37	0.41
2:B:3592:ILE:O	2:B:3596:VAL:HG12	2.21	0.41
2:B:3767:GLN:NE2	2:B:3804:ILE:O	2.54	0.41
2:B:3990:VAL:O	2:B:3993:LEU:HB2	2.21	0.41
2:B:4066:LEU:HD11	2:B:4173:TYR:CB	2.51	0.41
2:B:4226:GLY:O	2:B:4230:LYS:HG2	2.21	0.41
2:B:4656:LEU:HA	2:B:4659:ILE:HG12	2.02	0.41
2:I:35:LEU:CB	2:I:49:LEU:HD12	2.51	0.41
2:I:214:VAL:HG22	2:I:341:TYR:CE1	2.55	0.41
2:I:426:ARG:HG3	2:I:505:GLU:O	2.21	0.41
2:I:2155:LEU:HD12	2:I:2185:ILE:HD13	2.02	0.41
2:I:2211:MET:HA	2:I:2214:VAL:HG12	2.02	0.41
2:I:2475:GLN:HB2	2:I:2488:PRO:HG2	2.03	0.41
2:I:2754:PHE:CZ	2:I:2930:LEU:HG	2.56	0.41
2:I:2766:TRP:CE2	2:I:2770:LYS:HD2	2.56	0.41
2:I:3170:CYS:HA	2:I:3240:CYS:SG	2.61	0.41
2:I:3206:LEU:HA	2:I:3246:LEU:CD2	2.42	0.41
2:I:3358:PHE:CZ	2:I:3412:LEU:HD13	2.56	0.41
2:I:3372:VAL:HG21	2:I:3397:GLU:HB3	2.02	0.41
2:I:3374:ALA:O	2:I:3375:GLU:C	2.64	0.41
2:I:3465:ASN:OD1	2:I:3467:MET:N	2.54	0.41
2:I:3527:PRO:HA	2:I:3530:GLN:NE2	2.32	0.41
2:I:3825:GLU:OE2	2:I:3827:GLY:N	2.53	0.41
2:I:3924:LEU:HD23	2:I:3924:LEU:HA	1.88	0.41
2:I:3990:VAL:O	2:I:3993:LEU:HB2	2.21	0.41
2:I:4204:GLN:CB	2:I:4245:MET:HE3	2.47	0.41
2:I:4871:GLU:HG2	2:I:4871:GLU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:21:VAL:HB	2:A:36:CYS:SG	2.61	0.41
2:A:665:GLU:OE1	2:A:800:PHE:HA	2.21	0.41
2:A:861:ILE:HG21	2:A:930:LYS:HA	2.03	0.41
2:A:2319:PRO:HD3	2:A:2393:ASP:HA	2.03	0.41
2:A:2447:LYS:HG3	2:A:2449:GLU:HB3	2.03	0.41
2:A:2612:ARG:NE	2:A:2612:ARG:HA	2.35	0.41
2:A:2620:GLN:O	2:A:2623:LEU:HB3	2.21	0.41
2:A:2623:LEU:HD22	2:A:2674:LEU:HG	2.03	0.41
2:A:2624:ARG:NH2	2:A:2911:LEU:HA	2.36	0.41
2:A:2912:THR:O	2:A:2916:LYS:N	2.46	0.41
2:A:3206:LEU:HB2	2:A:3280:TYR:OH	2.21	0.41
2:A:3733:CYS:HB2	2:A:3803:SER:HB2	2.03	0.41
2:A:3886:ARG:HA	2:A:3886:ARG:HD2	1.93	0.41
2:A:3990:VAL:O	2:A:3993:LEU:HB2	2.21	0.41
2:A:4049:VAL:HG12	2:A:4163:PHE:CE2	2.56	0.41
2:A:4152:GLU:HG2	2:A:4192:ARG:NH1	2.36	0.41
2:A:4755:GLU:O	2:A:4756:ARG:NE	2.54	0.41
2:G:820:ARG:HH11	2:G:820:ARG:HG2	1.86	0.41
2:G:949:ASN:HB3	2:G:974:HIS:CE1	2.55	0.41
2:G:1122:TYR:HE1	2:G:1133:HIS:CD2	2.39	0.41
2:G:1996:ARG:HD2	2:G:1997:GLU:N	2.36	0.41
2:G:2766:TRP:CE2	2:G:2770:LYS:HD2	2.56	0.41
2:G:3037:GLU:OE2	2:G:3078:ARG:NH2	2.50	0.41
2:G:3257:ALA:HB2	2:G:3322:ILE:HG13	2.03	0.41
2:G:3354:LEU:O	2:G:3358:PHE:HB3	2.20	0.41
2:G:3580:PRO:HA	2:G:3582:ARG:HH11	1.86	0.41
2:G:4049:VAL:HG12	2:G:4163:PHE:CE2	2.56	0.41
2:G:4960:ILE:HD13	2:G:4983:HIS:HB3	2.03	0.41
2:B:102:LEU:HB2	2:B:105:HIS:HD2	1.85	0.41
2:B:207:SER:OG	2:B:208:CYS:N	2.54	0.41
2:B:341:TYR:OH	2:B:392:ARG:HD3	2.20	0.41
2:B:378:LEU:HD23	2:B:378:LEU:HA	1.85	0.41
2:B:1230:MET:HE1	2:B:1828:ASP:HA	2.03	0.41
2:B:1739:THR:O	2:B:1742:THR:HG22	2.20	0.41
2:B:1808:ARG:HG3	2:B:1854:PHE:CE1	2.56	0.41
2:B:1996:ARG:HD2	2:B:1997:GLU:N	2.36	0.41
2:B:2186:MET:SD	2:B:2235:PHE:HD2	2.44	0.41
2:B:2457:LEU:HD22	2:B:2505:PHE:HE1	1.86	0.41
2:B:2624:ARG:HH21	2:B:2911:LEU:HA	1.86	0.41
2:B:2668:SER:C	2:B:2670:GLU:H	2.29	0.41
2:B:2670:GLU:HG2	2:B:2913:ALA:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3540:TYR:CD2	2:B:3549:VAL:HG11	2.56	0.41
2:B:3577:ARG:NE	2:B:3577:ARG:HA	2.36	0.41
2:B:3586:ALA:HA	2:B:3591:LYS:HE2	2.03	0.41
2:B:4039:MET:SD	2:B:4040:ILE:HG12	2.60	0.41
2:I:297:GLN:HB3	2:I:300:VAL:HG13	2.02	0.41
2:I:980:ALA:O	2:I:983:THR:HB	2.21	0.41
2:I:1720:LEU:C	2:I:1722:SER:H	2.29	0.41
2:I:2186:MET:SD	2:I:2235:PHE:HD2	2.44	0.41
2:I:2319:PRO:HD3	2:I:2393:ASP:HA	2.03	0.41
2:I:2620:GLN:O	2:I:2623:LEU:HB3	2.21	0.41
2:I:2860:PRO:HG3	2:I:2929:PHE:HE1	1.84	0.41
2:I:3390:GLY:HA2	2:I:3393:LEU:HD12	2.02	0.41
2:I:3903:LEU:HD23	2:I:3903:LEU:HA	1.80	0.41
2:I:3944:GLU:CG	2:I:3947:GLY:H	2.34	0.41
2:A:207:SER:OG	2:A:208:CYS:N	2.54	0.40
2:A:990:GLU:HG2	2:A:1024:TYR:CB	2.52	0.40
2:A:1260:MET:HB2	2:A:1269:CYS:HG	1.85	0.40
2:A:2648:TYR:HB2	2:A:2705:ALA:HB1	2.03	0.40
2:A:2967:MET:O	2:A:2971:GLN:HG2	2.21	0.40
2:A:3069:HIS:ND1	2:A:3142:THR:HG21	2.36	0.40
2:A:3358:PHE:CZ	2:A:3412:LEU:HD13	2.56	0.40
2:A:4071:ILE:HG13	2:A:4072:VAL:N	2.35	0.40
2:A:4656:LEU:HA	2:A:4659:ILE:HG12	2.02	0.40
2:G:861:ILE:HG21	2:G:930:LYS:HA	2.03	0.40
2:G:1007:TYR:CG	2:G:1008:SER:N	2.88	0.40
2:G:1024:TYR:CZ	2:G:1032:LYS:HG2	2.56	0.40
2:G:1691:GLN:NE2	2:G:1695:LEU:HD11	2.36	0.40
2:G:2668:SER:C	2:G:2670:GLU:H	2.29	0.40
2:G:2789:PRO:HG2	2:G:2790:MET:HE1	2.03	0.40
2:G:3577:ARG:HA	2:G:3577:ARG:NE	2.36	0.40
2:G:3725:TYR:HA	2:G:3728:ILE:HD12	2.02	0.40
2:G:3965:LEU:HD13	2:G:3968:TYR:HD2	1.86	0.40
2:G:4229:GLU:HG2	2:G:5019:TRP:CD1	2.56	0.40
2:B:320:LYS:HD3	2:B:356:TRP:CZ3	2.56	0.40
2:B:870:ILE:HD11	2:B:1049:TYR:CD2	2.56	0.40
2:B:2244:ARG:CZ	2:B:3860:ASN:HD21	2.34	0.40
2:B:2297:LYS:O	2:B:2301:TYR:HD2	2.04	0.40
2:B:2368:LEU:HD12	2:B:2368:LEU:HA	1.86	0.40
2:B:2789:PRO:HG2	2:B:2790:MET:HE1	2.03	0.40
2:B:3225:ARG:O	2:B:3225:ARG:NH2	2.54	0.40
2:B:3249:LEU:O	2:B:3253:ILE:HG23	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3937:TYR:CE1	2:B:3943:ILE:HB	2.57	0.40
2:B:3965:LEU:HD13	2:B:3968:TYR:HD2	1.86	0.40
2:I:181:HIS:HA	2:I:198:THR:CG2	2.50	0.40
2:I:861:ILE:HG21	2:I:930:LYS:HA	2.03	0.40
2:I:949:ASN:HB3	2:I:974:HIS:CE1	2.55	0.40
2:I:1433:TYR:CD1	2:I:1573:MET:HB2	2.56	0.40
2:I:2457:LEU:O	2:I:2460:LEU:HB3	2.21	0.40
2:I:2512:ILE:HG22	2:I:2517:PHE:CD2	2.55	0.40
2:I:2648:TYR:HB2	2:I:2705:ALA:HB1	2.03	0.40
2:I:2668:SER:C	2:I:2670:GLU:H	2.29	0.40
2:I:3123:LYS:HB2	2:I:3124:GLY:H	1.76	0.40
2:I:3540:TYR:HE2	2:I:3549:VAL:HG21	1.86	0.40
2:I:3580:PRO:HA	2:I:3582:ARG:HH11	1.86	0.40
2:I:4152:GLU:HG2	2:I:4192:ARG:NH1	2.36	0.40
2:A:320:LYS:HD3	2:A:356:TRP:CZ3	2.56	0.40
2:A:866:HIS:NE2	2:A:939:VAL:HG23	2.36	0.40
2:A:1007:TYR:CG	2:A:1008:SER:N	2.88	0.40
2:A:2290:LEU:HA	2:A:2290:LEU:HD23	1.85	0.40
2:A:2624:ARG:HH21	2:A:2911:LEU:HA	1.86	0.40
2:A:2668:SER:C	2:A:2670:GLU:H	2.29	0.40
2:A:3225:ARG:CZ	2:A:3225:ARG:HB3	2.51	0.40
2:G:178:ARG:HB2	2:G:193:ALA:HB1	2.03	0.40
2:G:297:GLN:HB3	2:G:300:VAL:HG13	2.02	0.40
2:G:615:ARG:NH2	2:G:2168:VAL:HG21	2.28	0.40
2:G:1100:MET:HE2	2:G:1100:MET:HB3	1.91	0.40
2:G:1292:SER:HB3	2:G:1596:GLU:HG2	2.03	0.40
2:G:1477:GLY:HA2	2:G:1483:VAL:HA	2.01	0.40
2:G:2284:ASN:HB2	2:G:3858:MET:SD	2.61	0.40
2:G:2416:VAL:HG22	2:G:2417:HIS:N	2.37	0.40
2:G:3540:TYR:CD2	2:G:3549:VAL:HG11	2.57	0.40
2:G:3554:GLN:OE1	2:G:3593:VAL:HG11	2.22	0.40
2:G:3990:VAL:O	2:G:3993:LEU:HB2	2.21	0.40
2:B:33:LEU:O	2:B:34:LYS:HD2	2.21	0.40
2:B:178:ARG:HB2	2:B:193:ALA:HB1	2.03	0.40
2:B:316:PHE:HD1	2:B:346:CYS:SG	2.45	0.40
2:B:990:GLU:HG2	2:B:1024:TYR:CB	2.52	0.40
2:B:1634:LEU:HD12	2:B:1634:LEU:HA	1.79	0.40
2:B:1691:GLN:NE2	2:B:1695:LEU:HD11	2.36	0.40
2:B:1720:LEU:C	2:B:1722:SER:H	2.29	0.40
2:B:1771:LEU:HD12	2:B:1771:LEU:HA	1.97	0.40
2:B:2620:GLN:O	2:B:2623:LEU:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2623:LEU:O	2:B:2627:VAL:HG23	2.21	0.40
2:B:2766:TRP:CE2	2:B:2770:LYS:HD2	2.56	0.40
2:B:3015:LEU:HB3	2:B:3025:LEU:O	2.20	0.40
2:B:3733:CYS:HB2	2:B:3803:SER:HB2	2.03	0.40
2:B:4234:PHE:CD1	2:B:4237:PHE:HD2	2.39	0.40
2:B:4885:PHE:O	2:B:4889:VAL:HG12	2.21	0.40
2:I:1839:VAL:HB	2:I:1840:PRO:HD3	2.03	0.40
2:I:2096:GLU:HB3	2:I:2100:HIS:CE1	2.57	0.40
2:I:2284:ASN:HB2	2:I:3858:MET:SD	2.61	0.40
2:I:2416:VAL:HG22	2:I:2417:HIS:N	2.37	0.40
2:I:2624:ARG:NH2	2:I:2911:LEU:HA	2.36	0.40
2:I:2967:MET:O	2:I:2971:GLN:HG2	2.21	0.40
2:I:4031:LEU:O	2:I:4032:GLU:C	2.64	0.40
2:I:4242:ILE:HD11	2:I:4989:MET:SD	2.61	0.40
2:I:4248:ALA:O	2:I:4252:SER:OG	2.39	0.40
2:I:4755:GLU:O	2:I:4756:ARG:NE	2.54	0.40
2:I:4885:PHE:O	2:I:4889:VAL:HG12	2.21	0.40
2:A:341:TYR:OH	2:A:392:ARG:HD3	2.20	0.40
2:A:710:ASP:OD1	2:A:710:ASP:N	2.53	0.40
2:A:1679:ASN:ND2	2:A:1797:ARG:O	2.53	0.40
2:A:1734:TYR:HB2	2:A:2140:ARG:O	2.20	0.40
2:A:1808:ARG:HG3	2:A:1854:PHE:CE1	2.56	0.40
2:A:2366:PRO:HA	2:A:2369:ARG:NE	2.36	0.40
2:A:3257:ALA:HB2	2:A:3322:ILE:HG13	2.03	0.40
2:A:3719:ASP:H	2:A:3793:MET:HE1	1.85	0.40
2:A:4150:LEU:HA	2:A:4150:LEU:HD23	1.82	0.40
2:A:4221:VAL:HG13	2:A:4222:VAL:N	2.36	0.40
2:A:4960:ILE:HD13	2:A:4983:HIS:HB3	2.03	0.40
1:O:90:VAL:C	1:O:91:ILE:HD13	2.46	0.40
2:G:697:GLY:CA	2:G:1636:MET:HE1	2.50	0.40
2:G:906:CYS:HA	2:G:963:ASN:OD1	2.21	0.40
2:G:2519:LEU:HD21	2:G:2575:ARG:HE	1.85	0.40
2:G:2749:GLU:OE2	2:G:2749:GLU:N	2.46	0.40
2:G:3970:GLN:HE22	2:G:5004:THR:HA	1.86	0.40
2:B:866:HIS:NE2	2:B:939:VAL:HG23	2.36	0.40
2:B:1230:MET:HE1	2:B:1827:ARG:O	2.21	0.40
2:B:1668:ARG:HE	2:B:1668:ARG:HB3	1.69	0.40
2:B:2096:GLU:HB3	2:B:2100:HIS:CE1	2.57	0.40
2:B:2886:TRP:O	2:B:2890:LYS:HG2	2.21	0.40
2:B:3123:LYS:HB2	2:B:3124:GLY:H	1.76	0.40
2:B:3170:CYS:HA	2:B:3240:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3271:GLU:CD	2:B:3337:ARG:HH11	2.29	0.40
2:B:3604:TYR:O	2:B:3608:GLN:HG2	2.21	0.40
2:B:4242:ILE:HD11	2:B:4989:MET:SD	2.62	0.40
2:B:4843:LEU:HD23	2:B:4928:LEU:HD11	2.03	0.40
2:I:320:LYS:HD3	2:I:356:TRP:CZ3	2.56	0.40
2:I:820:ARG:HH11	2:I:820:ARG:HG2	1.86	0.40
2:I:1276:THR:O	2:I:1282:SER:OG	2.22	0.40
2:I:2239:PHE:CD2	2:I:2250:MET:HE2	2.48	0.40
2:I:3225:ARG:HB3	2:I:3225:ARG:CZ	2.51	0.40
2:I:3527:PRO:O	2:I:3530:GLN:OE1	2.40	0.40
2:I:4049:VAL:HG12	2:I:4163:PHE:CE2	2.56	0.40
2:I:4066:LEU:HD11	2:I:4173:TYR:CB	2.51	0.40
2:I:4221:VAL:HG13	2:I:4222:VAL:N	2.36	0.40
2:I:4226:GLY:O	2:I:4230:LYS:HG2	2.21	0.40
2:I:4960:ILE:HD13	2:I:4983:HIS:HB3	2.03	0.40
2:A:149:THR:HG22	2:A:150:MET:N	2.30	0.40
2:A:153:ALA:HB3	2:A:168:ASP:HB2	2.04	0.40
2:A:178:ARG:HB2	2:A:193:ALA:HB1	2.03	0.40
2:A:316:PHE:HD1	2:A:346:CYS:SG	2.45	0.40
2:A:3225:ARG:NH2	2:A:3225:ARG:O	2.54	0.40
2:A:3580:PRO:HA	2:A:3582:ARG:HH11	1.86	0.40
2:A:3725:TYR:HA	2:A:3728:ILE:HD12	2.02	0.40
2:A:4242:ILE:HD11	2:A:4989:MET:SD	2.62	0.40
2:A:4646:LEU:HD23	2:A:4646:LEU:HA	1.85	0.40
1:H:52:LYS:HB3	1:H:52:LYS:HE2	1.76	0.40
2:G:33:LEU:O	2:G:34:LYS:HD2	2.21	0.40
2:G:215:THR:OG1	2:G:218:HIS:NE2	2.53	0.40
2:G:2670:GLU:HG2	2:G:2913:ALA:H	1.86	0.40
2:G:3358:PHE:CZ	2:G:3412:LEU:HD13	2.56	0.40
2:G:3719:ASP:H	2:G:3793:MET:HE1	1.85	0.40
2:G:3825:GLU:OE2	2:G:3827:GLY:N	2.53	0.40
2:G:4650:HIS:ND1	2:G:4799:SER:OG	2.46	0.40
2:B:800:PHE:HB3	2:B:802:PHE:O	2.22	0.40
2:B:1820:ARG:HA	2:B:1820:ARG:HD2	1.69	0.40
2:B:2296:GLU:HG3	2:B:2356:LEU:HD11	2.03	0.40
2:B:2416:VAL:HG22	2:B:2417:HIS:N	2.37	0.40
2:B:2457:LEU:O	2:B:2460:LEU:HB3	2.21	0.40
2:B:2555:CYS:SG	2:B:2599:GLN:HG3	2.62	0.40
2:B:3106:MET:O	2:B:3110:LEU:HG	2.22	0.40
2:B:3508:SER:O	2:B:3511:VAL:HG22	2.21	0.40
2:B:3554:GLN:OE1	2:B:3593:VAL:HG11	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:207:SER:OG	2:I:208:CYS:N	2.54	0.40
2:I:990:GLU:HG2	2:I:1024:TYR:CB	2.52	0.40
2:I:1089:TYR:CD2	2:I:1152:MET:HG3	2.52	0.40
2:I:1691:GLN:NE2	2:I:1695:LEU:HD11	2.36	0.40
2:I:2457:LEU:HD22	2:I:2505:PHE:HE1	1.86	0.40
2:I:3061:ALA:N	2:I:3062:PRO:HD2	2.37	0.40
2:I:3225:ARG:NH2	2:I:3225:ARG:O	2.54	0.40
2:I:3540:TYR:CD2	2:I:3549:VAL:HG11	2.57	0.40
2:I:4229:GLU:HG2	2:I:5019:TRP:CD1	2.56	0.40
2:I:4991:PHE:CZ	2:I:5010:VAL:HG21	2.57	0.40
2:A:215:THR:HG1	2:A:218:HIS:CE1	2.39	0.40
2:A:1131:ARG:HB3	2:A:1139:PHE:HD1	1.87	0.40
2:A:2135:LEU:HD11	2:A:3663:LEU:HG	2.03	0.40
2:A:2416:VAL:HG22	2:A:2417:HIS:N	2.37	0.40
2:A:2449:GLU:O	2:A:2452:ARG:HG2	2.22	0.40
2:A:2531:ARG:HD2	2:A:2588:ARG:NH2	2.37	0.40
2:A:3033:ASN:HB2	2:A:3078:ARG:HH21	1.87	0.40
2:A:3402:CYS:SG	2:A:3455:GLU:HA	2.62	0.40
2:A:3586:ALA:HA	2:A:3591:LYS:HE2	2.03	0.40
2:A:3937:TYR:CE1	2:A:3943:ILE:HB	2.57	0.40
2:A:4226:GLY:O	2:A:4230:LYS:HG2	2.21	0.40
2:G:24:CYS:HB3	2:G:182:LEU:CD2	2.49	0.40
2:G:316:PHE:HD1	2:G:346:CYS:SG	2.45	0.40
2:G:341:TYR:OH	2:G:392:ARG:HD3	2.20	0.40
2:G:818:ARG:HH22	2:G:1028:ASP:HA	1.87	0.40
2:G:1230:MET:HE1	2:G:1827:ARG:O	2.21	0.40
2:G:1649:ASP:O	2:G:1652:GLU:HB2	2.22	0.40
2:G:1808:ARG:HG3	2:G:1854:PHE:CE1	2.56	0.40
2:G:2470:ILE:HD11	2:G:2502:MET:HB2	2.03	0.40
2:G:2967:MET:O	2:G:2971:GLN:HG2	2.21	0.40
2:G:3214:ASN:OD1	2:G:3215:ALA:N	2.55	0.40
2:G:3944:GLU:CG	2:G:3947:GLY:H	2.34	0.40
2:G:4000:MET:HE2	2:G:4000:MET:HB2	1.85	0.40
2:G:4226:GLY:O	2:G:4230:LYS:HG2	2.21	0.40
2:G:4242:ILE:HD11	2:G:4989:MET:SD	2.62	0.40
2:G:4843:LEU:HD23	2:G:4928:LEU:HD11	2.03	0.40
2:B:49:LEU:HD13	2:B:49:LEU:HA	1.98	0.40
2:B:183:SER:HB2	2:B:190:GLN:CA	2.52	0.40
2:B:904:HIS:N	2:B:905:PRO:HD3	2.36	0.40
2:B:980:ALA:O	2:B:983:THR:HB	2.21	0.40
2:B:2199:ARG:NH2	2:B:2245:GLN:HG3	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2608:MET:HE3	2:B:2608:MET:HB2	1.83	0.40
2:B:2758:PHE:CD2	2:B:2809:ILE:HG12	2.54	0.40
2:B:3070:ILE:O	2:B:3074:SER:N	2.46	0.40
2:B:3358:PHE:CZ	2:B:3412:LEU:HD13	2.56	0.40
2:B:3402:CYS:SG	2:B:3455:GLU:HA	2.62	0.40
2:B:3944:GLU:CG	2:B:3947:GLY:H	2.34	0.40
2:B:4185:GLY:HA3	2:B:4189:ARG:N	2.36	0.40
2:B:4991:PHE:CZ	2:B:5010:VAL:HG21	2.56	0.40
2:I:33:LEU:O	2:I:34:LYS:HD2	2.21	0.40
2:I:102:LEU:HB2	2:I:105:HIS:HD2	1.85	0.40
2:I:183:SER:HB2	2:I:190:GLN:CA	2.52	0.40
2:I:1668:ARG:HE	2:I:1668:ARG:HB3	1.69	0.40
2:I:2244:ARG:CZ	2:I:3860:ASN:HD21	2.34	0.40
2:I:2366:PRO:HA	2:I:2369:ARG:NE	2.36	0.40
2:I:2789:PRO:HG2	2:I:2790:MET:HE1	2.03	0.40
2:I:3443:ILE:HG23	2:I:3605:HIS:CE1	2.55	0.40
2:I:3592:ILE:O	2:I:3596:VAL:HG12	2.21	0.40
2:I:3937:TYR:CE1	2:I:3943:ILE:HB	2.57	0.40
2:I:4045:VAL:O	2:I:4049:VAL:HG13	2.21	0.40
2:I:4093:PHE:O	2:I:4097:MET:HG2	2.22	0.40
2:I:4111:LEU:HD23	2:I:4111:LEU:HA	1.84	0.40
2:I:4646:LEU:HD23	2:I:4646:LEU:HA	1.85	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	105/108 (97%)	96 (91%)	9 (9%)	0	100	100
1	H	105/108 (97%)	96 (91%)	9 (9%)	0	100	100
1	J	105/108 (97%)	96 (91%)	9 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	O	105/108 (97%)	96 (91%)	9 (9%)	0	100	100
2	A	4256/5037 (84%)	3938 (92%)	314 (7%)	4 (0%)	48	80
2	B	4256/5037 (84%)	3936 (92%)	316 (7%)	4 (0%)	48	80
2	G	4256/5037 (84%)	3939 (93%)	313 (7%)	4 (0%)	48	80
2	I	4256/5037 (84%)	3940 (93%)	312 (7%)	4 (0%)	48	80
All	All	17444/20580 (85%)	16137 (92%)	1291 (7%)	16 (0%)	49	80

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	3876	ALA
2	G	3876	ALA
2	B	3876	ALA
2	I	3876	ALA
2	A	1783	VAL
2	G	1783	VAL
2	B	1783	VAL
2	I	1783	VAL
2	A	3896	ASN
2	G	3896	ASN
2	B	3896	ASN
2	I	3896	ASN
2	A	1780	PRO
2	G	1780	PRO
2	B	1780	PRO
2	I	1780	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	F	88/89 (99%)	77 (88%)	11 (12%)	4	20
1	H	88/89 (99%)	77 (88%)	11 (12%)	4	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	88/89 (99%)	77 (88%)	11 (12%)	4	20
1	O	88/89 (99%)	77 (88%)	11 (12%)	4	20
2	A	3732/4276 (87%)	3708 (99%)	24 (1%)	78	81
2	B	3732/4276 (87%)	3708 (99%)	24 (1%)	78	81
2	G	3732/4276 (87%)	3708 (99%)	24 (1%)	78	81
2	I	3732/4276 (87%)	3708 (99%)	24 (1%)	78	81
All	All	15280/17460 (88%)	15140 (99%)	140 (1%)	68	76

All (140) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	5	GLU
1	F	21	THR
1	F	22	CYS
1	F	25	HIS
1	F	37	ASP
1	F	38	SER
1	F	44	LYS
1	F	49	ARG
1	F	54	GLU
1	F	91	ILE
1	F	106	LEU
2	A	749	ASP
2	A	750	LEU
2	A	752	VAL
2	A	754	SER
2	A	755	ILE
2	A	1687	SER
2	A	1690	ASP
2	A	1691	GLN
2	A	1778	SER
2	A	1783	VAL
2	A	3854	GLU
2	A	3864	THR
2	A	3865	VAL
2	A	3874	VAL
2	A	3875	MET
2	A	3965	LEU
2	A	3966	THR
2	A	3967	GLU

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Mol	Chain	Res	Type
2	A	3969	ILE
2	A	3970	GLN
2	A	4031	LEU
2	A	4032	GLU
2	A	5001	THR
2	A	5004	THR
1	H	5	GLU
1	H	21	THR
1	H	22	CYS
1	H	25	HIS
1	H	37	ASP
1	H	38	SER
1	H	44	LYS
1	H	49	ARG
1	H	54	GLU
1	H	91	ILE
1	H	106	LEU
1	J	5	GLU
1	J	21	THR
1	J	22	CYS
1	J	25	HIS
1	J	37	ASP
1	J	38	SER
1	J	44	LYS
1	J	49	ARG
1	J	54	GLU
1	J	91	ILE
1	J	106	LEU
1	O	5	GLU
1	O	21	THR
1	O	22	CYS
1	O	25	HIS
1	O	37	ASP
1	O	38	SER
1	O	44	LYS
1	O	49	ARG
1	O	54	GLU
1	O	91	ILE
1	O	106	LEU
2	G	749	ASP
2	G	750	LEU
2	G	752	VAL

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Mol	Chain	Res	Type
2	G	754	SER
2	G	755	ILE
2	G	1687	SER
2	G	1690	ASP
2	G	1691	GLN
2	G	1778	SER
2	G	1783	VAL
2	G	3854	GLU
2	G	3864	THR
2	G	3865	VAL
2	G	3874	VAL
2	G	3875	MET
2	G	3965	LEU
2	G	3966	THR
2	G	3967	GLU
2	G	3969	ILE
2	G	3970	GLN
2	G	4031	LEU
2	G	4032	GLU
2	G	5001	THR
2	G	5004	THR
2	B	749	ASP
2	B	750	LEU
2	B	752	VAL
2	B	754	SER
2	B	755	ILE
2	B	1687	SER
2	B	1690	ASP
2	B	1691	GLN
2	B	1778	SER
2	B	1783	VAL
2	B	3854	GLU
2	B	3864	THR
2	B	3865	VAL
2	B	3874	VAL
2	B	3875	MET
2	B	3965	LEU
2	B	3966	THR
2	B	3967	GLU
2	B	3969	ILE
2	B	3970	GLN
2	B	4031	LEU

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Mol	Chain	Res	Type
2	B	4032	GLU
2	B	5001	THR
2	B	5004	THR
2	I	749	ASP
2	I	750	LEU
2	I	752	VAL
2	I	754	SER
2	I	755	ILE
2	I	1687	SER
2	I	1690	ASP
2	I	1691	GLN
2	I	1778	SER
2	I	1783	VAL
2	I	3854	GLU
2	I	3864	THR
2	I	3865	VAL
2	I	3874	VAL
2	I	3875	MET
2	I	3965	LEU
2	I	3966	THR
2	I	3967	GLU
2	I	3969	ILE
2	I	3970	GLN
2	I	4031	LEU
2	I	4032	GLU
2	I	5001	THR
2	I	5004	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (161) such sidechains are listed below:

Mol	Chain	Res	Type
2	A	241	GLN
2	A	297	GLN
2	A	495	ASN
2	A	593	HIS
2	A	610	ASN
2	A	736	HIS
2	A	838	HIS
2	A	1062	GLN
2	A	1165	ASN
2	A	1201	HIS
2	A	1298	HIS

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Mol	Chain	Res	Type
2	A	1299	GLN
2	A	1563	GLN
2	A	1660	GLN
2	A	1691	GLN
2	A	2005	GLN
2	A	2247	GLN
2	A	2291	GLN
2	A	2417	HIS
2	A	2498	HIS
2	A	2772	GLN
2	A	2856	ASN
2	A	3066	ASN
2	A	3146	HIS
2	A	3150	HIS
2	A	3313	ASN
2	A	3556	ASN
2	A	3560	GLN
2	A	3814	GLN
2	A	3850	GLN
2	A	3900	GLN
2	A	3970	GLN
2	A	3976	ASN
2	A	3994	HIS
2	A	4109	GLN
2	A	4553	ASN
2	A	4691	GLN
2	A	4857	ASN
2	A	4949	GLN
2	A	4973	HIS
2	G	241	GLN
2	G	297	GLN
2	G	495	ASN
2	G	593	HIS
2	G	610	ASN
2	G	736	HIS
2	G	838	HIS
2	G	1062	GLN
2	G	1165	ASN
2	G	1229	ASN
2	G	1299	GLN
2	G	1563	GLN
2	G	1660	GLN

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Mol	Chain	Res	Type
2	G	1679	ASN
2	G	1691	GLN
2	G	2005	GLN
2	G	2247	GLN
2	G	2291	GLN
2	G	2417	HIS
2	G	2498	HIS
2	G	2772	GLN
2	G	2856	ASN
2	G	3066	ASN
2	G	3146	HIS
2	G	3150	HIS
2	G	3313	ASN
2	G	3556	ASN
2	G	3560	GLN
2	G	3814	GLN
2	G	3850	GLN
2	G	3900	GLN
2	G	3970	GLN
2	G	3976	ASN
2	G	3994	HIS
2	G	4109	GLN
2	G	4553	ASN
2	G	4691	GLN
2	G	4754	ASN
2	G	4836	GLN
2	G	4949	GLN
2	G	4973	HIS
2	B	241	GLN
2	B	297	GLN
2	B	495	ASN
2	B	610	ASN
2	B	838	HIS
2	B	1062	GLN
2	B	1165	ASN
2	B	1298	HIS
2	B	1299	GLN
2	B	1563	GLN
2	B	1660	GLN
2	B	1691	GLN
2	B	2005	GLN
2	B	2247	GLN

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Mol	Chain	Res	Type
2	B	2291	GLN
2	B	2417	HIS
2	B	2498	HIS
2	B	2772	GLN
2	B	2856	ASN
2	B	3146	HIS
2	B	3150	HIS
2	B	3313	ASN
2	B	3556	ASN
2	B	3560	GLN
2	B	3767	GLN
2	B	3814	GLN
2	B	3850	GLN
2	B	3900	GLN
2	B	3970	GLN
2	B	3976	ASN
2	B	3994	HIS
2	B	4109	GLN
2	B	4553	ASN
2	B	4691	GLN
2	B	4754	ASN
2	B	4836	GLN
2	B	4949	GLN
2	B	4973	HIS
2	I	241	GLN
2	I	297	GLN
2	I	350	HIS
2	I	495	ASN
2	I	610	ASN
2	I	838	HIS
2	I	1062	GLN
2	I	1165	ASN
2	I	1229	ASN
2	I	1299	GLN
2	I	1563	GLN
2	I	1660	GLN
2	I	1679	ASN
2	I	1691	GLN
2	I	2005	GLN
2	I	2247	GLN
2	I	2291	GLN
2	I	2417	HIS

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Mol	Chain	Res	Type
2	I	2498	HIS
2	I	2574	HIS
2	I	2772	GLN
2	I	2856	ASN
2	I	2881	ASN
2	I	3146	HIS
2	I	3150	HIS
2	I	3313	ASN
2	I	3457	ASN
2	I	3556	ASN
2	I	3560	GLN
2	I	3814	GLN
2	I	3850	GLN
2	I	3900	GLN
2	I	3970	GLN
2	I	3976	ASN
2	I	3994	HIS
2	I	4109	GLN
2	I	4553	ASN
2	I	4691	GLN
2	I	4754	ASN
2	I	4836	GLN
2	I	4949	GLN
2	I	4973	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
3	ATP	G	5301	-	32,33,33	1.27	5 (15%)	48,52,52	1.74	10 (20%)
6	CFF	I	5304	-	15,15,15	1.95	8 (53%)	23,23,23	3.02	12 (52%)
3	ATP	I	5301	-	32,33,33	1.26	5 (15%)	48,52,52	1.75	10 (20%)
6	CFF	A	5304	-	15,15,15	1.94	8 (53%)	23,23,23	3.02	12 (52%)
3	ATP	B	5301	-	32,33,33	1.27	5 (15%)	48,52,52	1.75	10 (20%)
6	CFF	G	5304	-	15,15,15	1.94	8 (53%)	23,23,23	3.02	12 (52%)
6	CFF	B	5304	-	15,15,15	1.95	8 (53%)	23,23,23	3.02	12 (52%)
3	ATP	A	5301	-	32,33,33	1.27	5 (15%)	48,52,52	1.74	10 (20%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ATP	G	5301	-	-	7/22/38/38	0/3/3/3
6	CFF	I	5304	-	-	-	0/2/2/2
3	ATP	I	5301	-	-	7/22/38/38	0/3/3/3
6	CFF	A	5304	-	-	-	0/2/2/2
3	ATP	B	5301	-	-	7/22/38/38	0/3/3/3
6	CFF	G	5304	-	-	-	0/2/2/2
6	CFF	B	5304	-	-	-	0/2/2/2
3	ATP	A	5301	-	-	7/22/38/38	0/3/3/3

All (52) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	5304	CFF	C6-N1	-3.99	1.32	1.40
6	I	5304	CFF	C6-N1	-3.97	1.32	1.40
3	B	5301	ATP	C5-C4	3.97	1.46	1.39
3	I	5301	ATP	C5-C4	3.97	1.46	1.39
3	A	5301	ATP	C5-C4	3.96	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	5304	CFF	C6-N1	-3.95	1.32	1.40
3	G	5301	ATP	C5-C4	3.94	1.46	1.39
6	B	5304	CFF	C6-N1	-3.93	1.32	1.40
3	A	5301	ATP	C5-N7	-2.57	1.34	1.39
3	B	5301	ATP	C5-N7	-2.57	1.34	1.39
3	G	5301	ATP	C5-N7	-2.55	1.34	1.39
3	I	5301	ATP	C5-N7	-2.55	1.34	1.39
3	B	5301	ATP	C4-N9	-2.41	1.32	1.37
6	B	5304	CFF	C5-N7	-2.40	1.34	1.38
6	A	5304	CFF	C5-N7	-2.39	1.34	1.38
3	G	5301	ATP	C4-N9	-2.38	1.32	1.37
3	A	5301	ATP	C4-N9	-2.38	1.32	1.37
6	I	5304	CFF	C5-N7	-2.37	1.34	1.38
3	I	5301	ATP	C4-N9	-2.36	1.32	1.37
6	G	5304	CFF	C5-N7	-2.35	1.34	1.38
6	B	5304	CFF	C4-N3	-2.34	1.34	1.38
6	I	5304	CFF	C4-N3	-2.32	1.34	1.38
6	A	5304	CFF	C4-N3	-2.31	1.34	1.38
6	G	5304	CFF	C4-N3	-2.31	1.34	1.38
6	B	5304	CFF	C2-N1	-2.26	1.34	1.39
6	I	5304	CFF	C2-N1	-2.26	1.34	1.39
6	A	5304	CFF	C2-N1	-2.25	1.34	1.39
6	B	5304	CFF	O13-C6	-2.22	1.18	1.23
6	I	5304	CFF	C5-C6	-2.21	1.37	1.43
6	I	5304	CFF	O13-C6	-2.21	1.18	1.23
6	A	5304	CFF	C5-C6	-2.21	1.37	1.43
6	B	5304	CFF	C5-C6	-2.21	1.37	1.43
6	G	5304	CFF	C5-C6	-2.20	1.37	1.43
6	G	5304	CFF	C2-N1	-2.20	1.34	1.39
6	A	5304	CFF	O13-C6	-2.19	1.18	1.23
6	G	5304	CFF	O11-C2	-2.18	1.18	1.22
6	B	5304	CFF	O11-C2	-2.18	1.18	1.22
6	I	5304	CFF	O11-C2	-2.18	1.18	1.22
6	G	5304	CFF	O13-C6	-2.16	1.18	1.23
6	A	5304	CFF	O11-C2	-2.15	1.18	1.22
6	G	5304	CFF	C2-N3	-2.13	1.34	1.39
3	B	5301	ATP	C5-C6	2.11	1.46	1.41
3	G	5301	ATP	C5-C6	2.11	1.46	1.41
3	I	5301	ATP	C5-C6	2.11	1.46	1.41
3	A	5301	ATP	C5-C6	2.10	1.46	1.41
6	I	5304	CFF	C2-N3	-2.10	1.34	1.39
6	A	5304	CFF	C2-N3	-2.10	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	5301	ATP	C8-N7	2.08	1.35	1.31
6	B	5304	CFF	C2-N3	-2.07	1.35	1.39
3	A	5301	ATP	C8-N7	2.06	1.35	1.31
3	G	5301	ATP	C8-N7	2.06	1.35	1.31
3	I	5301	ATP	C8-N7	2.06	1.35	1.31

All (88) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	5304	CFF	C14-N7-C8	-8.64	110.12	126.28
6	I	5304	CFF	C14-N7-C8	-8.61	110.18	126.28
6	G	5304	CFF	C14-N7-C8	-8.59	110.20	126.28
6	A	5304	CFF	C14-N7-C8	-8.59	110.20	126.28
6	B	5304	CFF	C14-N7-C5	5.99	142.03	127.77
6	G	5304	CFF	C14-N7-C5	5.97	141.98	127.77
6	I	5304	CFF	C14-N7-C5	5.96	141.96	127.77
6	A	5304	CFF	C14-N7-C5	5.96	141.95	127.77
3	B	5301	ATP	C5-C4-N3	-5.30	119.42	126.72
3	A	5301	ATP	C5-C4-N3	-5.29	119.43	126.72
3	I	5301	ATP	C5-C4-N3	-5.29	119.44	126.72
3	G	5301	ATP	C5-C4-N3	-5.27	119.47	126.72
3	B	5301	ATP	N3-C4-N9	4.75	135.25	127.17
3	I	5301	ATP	N3-C4-N9	4.72	135.19	127.17
3	A	5301	ATP	N3-C4-N9	4.71	135.19	127.17
3	G	5301	ATP	N3-C4-N9	4.70	135.16	127.17
6	G	5304	CFF	C5-C6-N1	4.31	119.95	112.06
6	A	5304	CFF	C5-C6-N1	4.28	119.91	112.06
6	I	5304	CFF	C5-C6-N1	4.27	119.89	112.06
6	B	5304	CFF	C5-C6-N1	4.26	119.87	112.06
6	G	5304	CFF	N3-C4-N9	3.77	132.19	126.27
6	I	5304	CFF	N3-C4-N9	3.75	132.17	126.27
6	A	5304	CFF	N3-C4-N9	3.74	132.14	126.27
6	B	5304	CFF	N3-C4-N9	3.72	132.12	126.27
3	B	5301	ATP	C4-N9-C8	3.63	109.55	105.74
3	G	5301	ATP	C4-N9-C8	3.57	109.49	105.74
3	A	5301	ATP	C4-N9-C8	3.56	109.47	105.74
3	I	5301	ATP	C2-N3-C4	3.55	120.51	111.83
3	G	5301	ATP	C2-N3-C4	3.54	120.47	111.83
3	A	5301	ATP	C2-N3-C4	3.54	120.47	111.83
3	B	5301	ATP	C2-N3-C4	3.54	120.47	111.83
3	I	5301	ATP	C4-N9-C8	3.54	109.45	105.74
3	I	5301	ATP	N3-C2-N1	-3.47	123.33	128.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	G	5301	ATP	N3-C2-N1	-3.45	123.35	128.58
3	A	5301	ATP	N3-C2-N1	-3.44	123.38	128.58
6	G	5304	CFF	C6-N1-C2	-3.43	120.09	125.66
6	A	5304	CFF	C6-N1-C2	-3.41	120.12	125.66
6	B	5304	CFF	C6-N1-C2	-3.39	120.15	125.66
3	B	5301	ATP	N3-C2-N1	-3.39	123.45	128.58
6	I	5304	CFF	C6-N1-C2	-3.39	120.15	125.66
6	G	5304	CFF	O13-C6-C5	-3.30	119.63	126.38
6	I	5304	CFF	O13-C6-C5	-3.28	119.66	126.38
6	A	5304	CFF	O13-C6-C5	-3.27	119.68	126.38
6	B	5304	CFF	O13-C6-C5	-3.25	119.72	126.38
6	B	5304	CFF	N7-C8-N9	-3.06	107.93	113.48
6	I	5304	CFF	N7-C8-N9	-3.04	107.96	113.48
6	A	5304	CFF	N7-C8-N9	-3.04	107.97	113.48
6	G	5304	CFF	N7-C8-N9	-3.03	107.99	113.48
3	A	5301	ATP	C4-C5-N7	-2.51	107.72	110.58
3	G	5301	ATP	C4-C5-N7	-2.50	107.73	110.58
3	I	5301	ATP	C4-C5-N7	-2.49	107.74	110.58
3	B	5301	ATP	C4-C5-N7	-2.47	107.76	110.58
6	G	5304	CFF	C10-N1-C6	2.46	121.45	117.64
6	G	5304	CFF	C6-C5-C4	-2.46	119.82	122.92
6	A	5304	CFF	N3-C2-N1	2.45	120.20	117.14
6	A	5304	CFF	C6-C5-C4	-2.45	119.83	122.92
6	I	5304	CFF	N3-C2-N1	2.44	120.19	117.14
6	I	5304	CFF	C6-C5-C4	-2.44	119.84	122.92
6	B	5304	CFF	N3-C2-N1	2.44	120.19	117.14
6	B	5304	CFF	C6-C5-C4	-2.44	119.84	122.92
6	G	5304	CFF	N3-C2-N1	2.44	120.19	117.14
6	A	5304	CFF	C10-N1-C6	2.43	121.41	117.64
6	B	5304	CFF	C10-N1-C6	2.42	121.39	117.64
6	I	5304	CFF	C10-N1-C6	2.42	121.39	117.64
3	B	5301	ATP	N9-C8-N7	-2.40	110.53	113.94
3	A	5301	ATP	N9-C8-N7	-2.38	110.56	113.94
3	G	5301	ATP	N9-C8-N7	-2.38	110.57	113.94
3	I	5301	ATP	N9-C8-N7	-2.35	110.60	113.94
3	B	5301	ATP	C3'-C2'-C1'	2.28	105.77	101.46
3	G	5301	ATP	C3'-C2'-C1'	2.27	105.77	101.46
3	I	5301	ATP	C3'-C2'-C1'	2.27	105.77	101.46
3	A	5301	ATP	C3'-C2'-C1'	2.27	105.76	101.46
3	A	5301	ATP	C5-N7-C8	2.17	106.87	103.45
6	G	5304	CFF	C8-N9-C4	2.17	108.19	102.98
6	I	5304	CFF	C8-N9-C4	2.17	108.18	102.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	5304	CFF	C8-N9-C4	2.17	108.18	102.98
6	A	5304	CFF	C8-N9-C4	2.16	108.17	102.98
3	G	5301	ATP	C5-N7-C8	2.16	106.84	103.45
3	I	5301	ATP	C5-N7-C8	2.16	106.84	103.45
3	B	5301	ATP	C5-N7-C8	2.15	106.83	103.45
6	I	5304	CFF	C5-C4-N9	-2.13	107.88	112.10
6	B	5304	CFF	C5-C4-N9	-2.13	107.89	112.10
6	G	5304	CFF	C5-C4-N9	-2.13	107.89	112.10
6	A	5304	CFF	C5-C4-N9	-2.12	107.89	112.10
3	G	5301	ATP	N6-C6-N1	2.11	123.07	118.38
3	I	5301	ATP	N6-C6-N1	2.11	123.07	118.38
3	A	5301	ATP	N6-C6-N1	2.11	123.07	118.38
3	B	5301	ATP	N6-C6-N1	2.08	123.02	118.38

There are no chirality outliers.

All (28) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	5301	ATP	C5'-O5'-PA-O3A
3	G	5301	ATP	C5'-O5'-PA-O3A
3	B	5301	ATP	C5'-O5'-PA-O3A
3	I	5301	ATP	C5'-O5'-PA-O3A
3	A	5301	ATP	C3'-C4'-C5'-O5'
3	G	5301	ATP	C3'-C4'-C5'-O5'
3	B	5301	ATP	C3'-C4'-C5'-O5'
3	I	5301	ATP	C3'-C4'-C5'-O5'
3	A	5301	ATP	O4'-C1'-N9-C4
3	G	5301	ATP	O4'-C1'-N9-C4
3	B	5301	ATP	O4'-C1'-N9-C4
3	I	5301	ATP	O4'-C1'-N9-C4
3	A	5301	ATP	O4'-C1'-N9-C8
3	G	5301	ATP	O4'-C1'-N9-C8
3	B	5301	ATP	O4'-C1'-N9-C8
3	I	5301	ATP	O4'-C1'-N9-C8
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	G	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	I	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	C4'-C5'-O5'-PA
3	G	5301	ATP	C4'-C5'-O5'-PA
3	B	5301	ATP	C4'-C5'-O5'-PA
3	I	5301	ATP	C4'-C5'-O5'-PA

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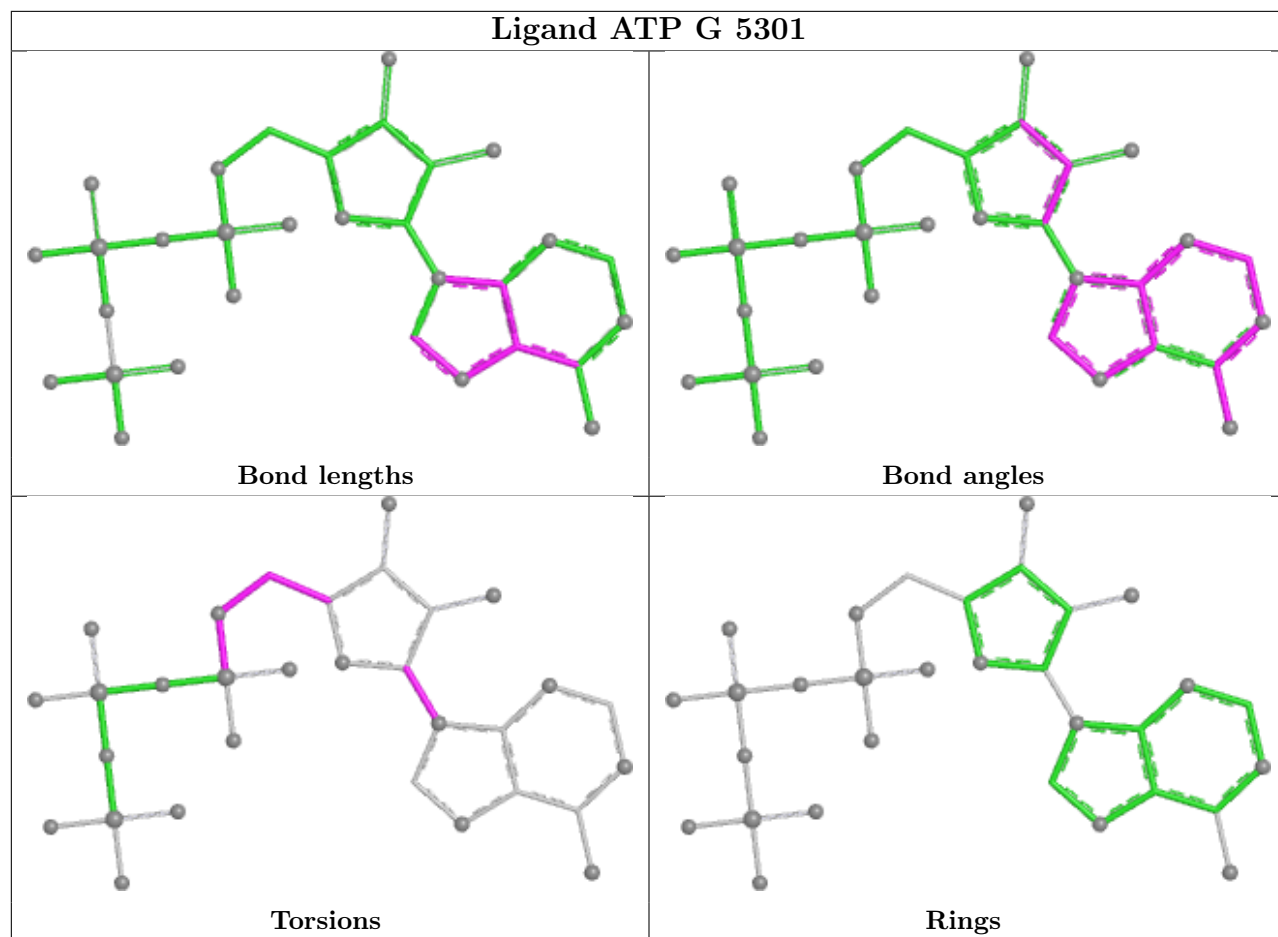
Mol	Chain	Res	Type	Atoms
3	A	5301	ATP	C5'-O5'-PA-O1A
3	G	5301	ATP	C5'-O5'-PA-O1A
3	B	5301	ATP	C5'-O5'-PA-O1A
3	I	5301	ATP	C5'-O5'-PA-O1A

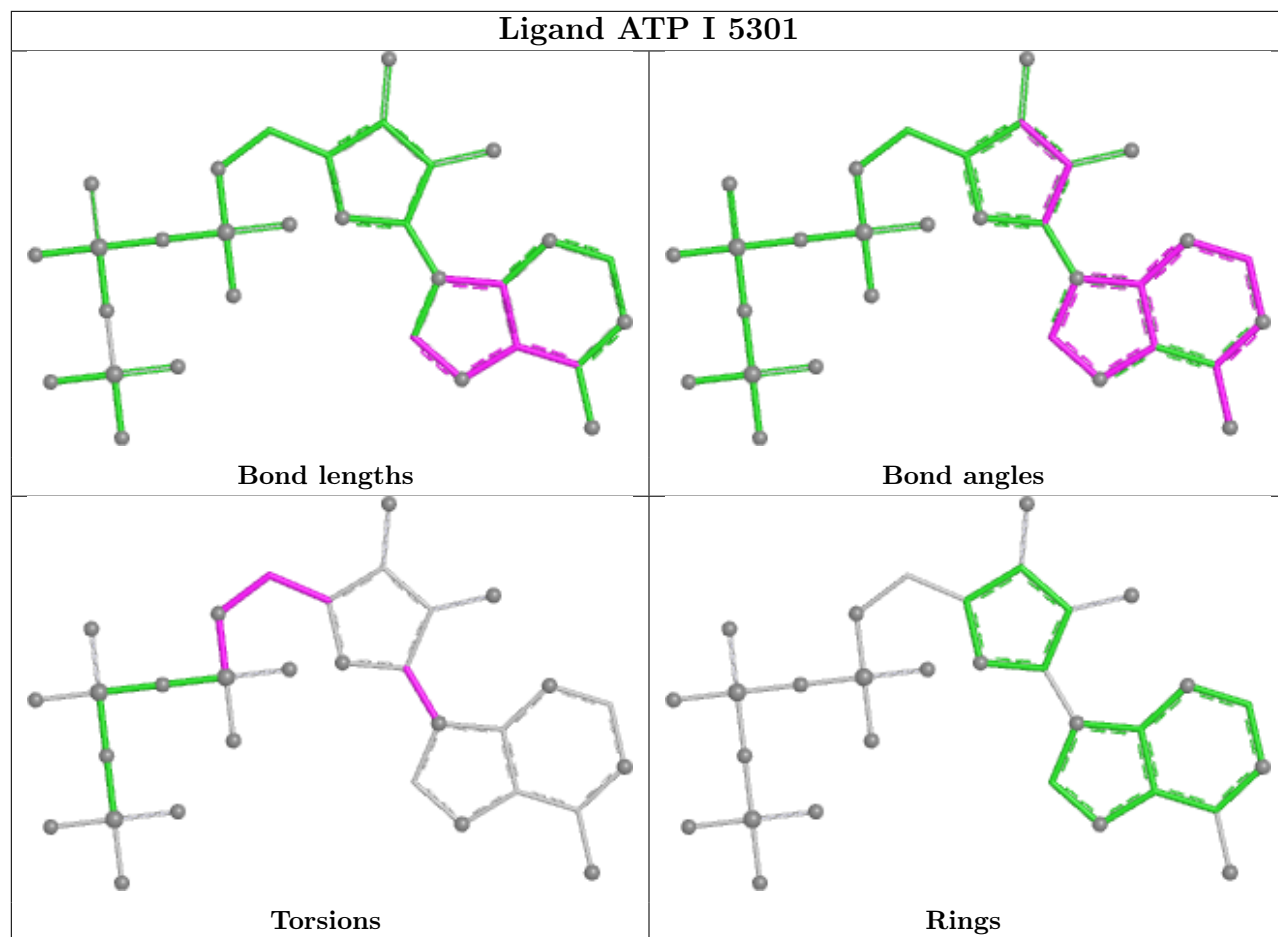
There are no ring outliers.

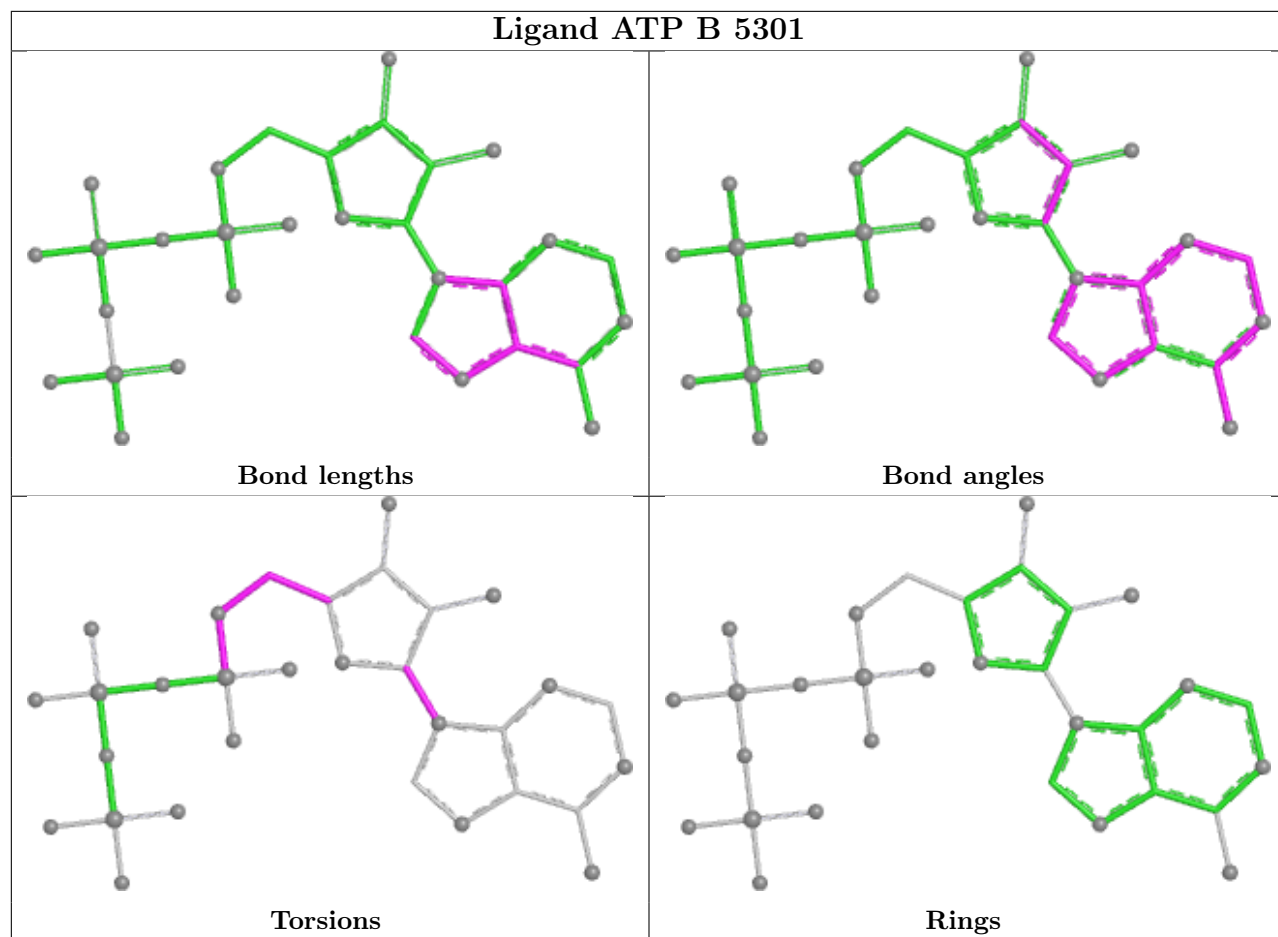
8 monomers are involved in 30 short contacts:

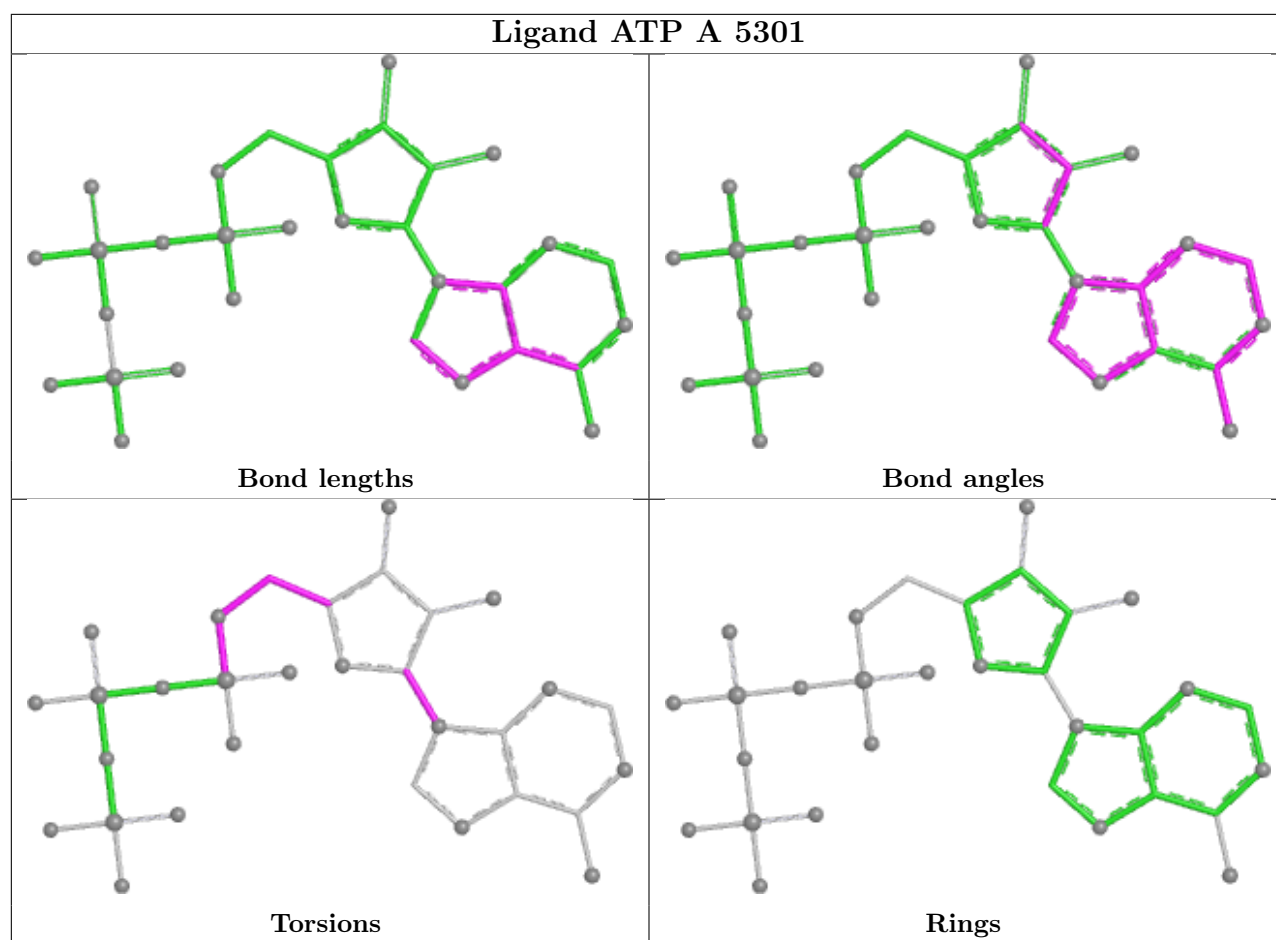
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	5301	ATP	6	0
6	I	5304	CFF	2	0
3	I	5301	ATP	6	0
6	A	5304	CFF	2	0
3	B	5301	ATP	5	0
6	G	5304	CFF	2	0
6	B	5304	CFF	2	0
3	A	5301	ATP	5	0

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









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

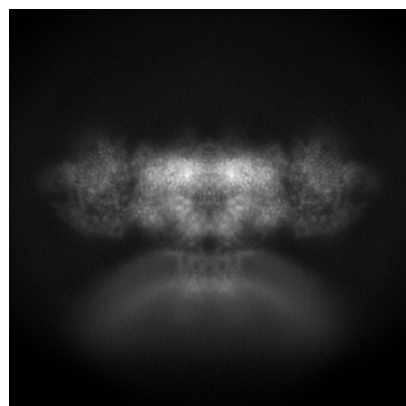
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23699. These allow visual inspection of the internal detail of the map and identification of artifacts.

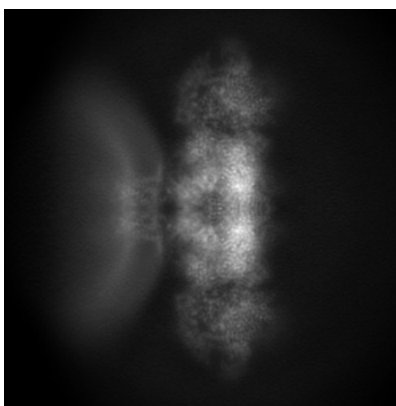
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

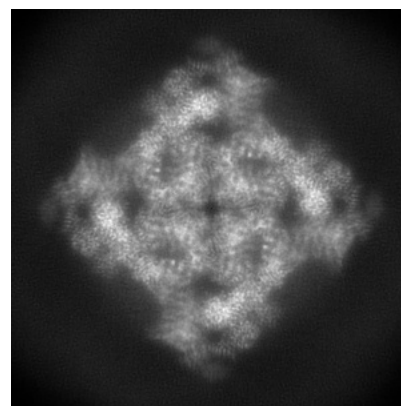
6.1.1 Primary map



X

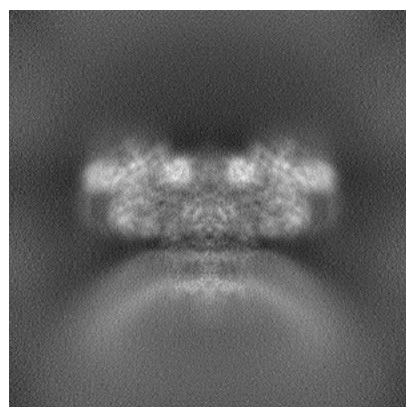


Y

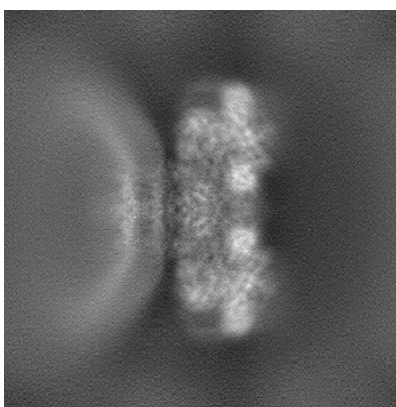


Z

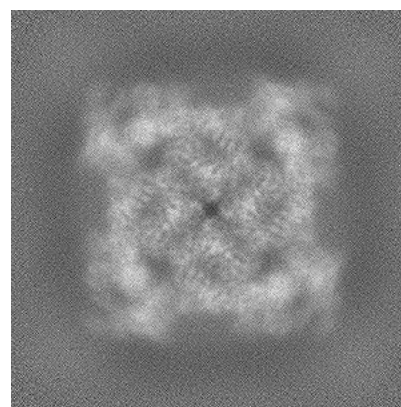
6.1.2 Raw map



X



Y

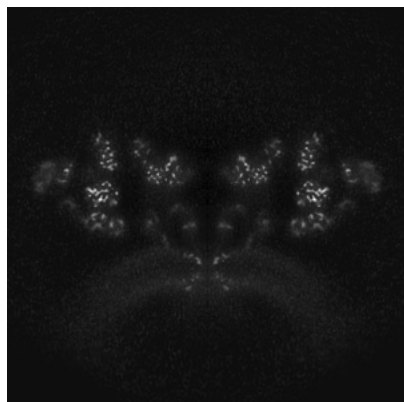


Z

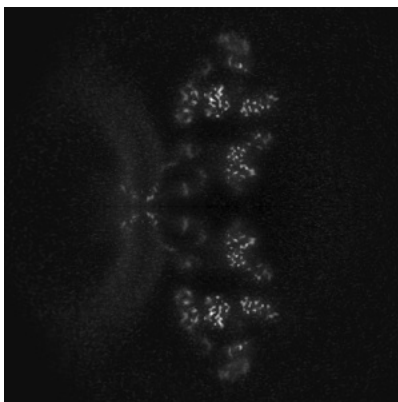
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

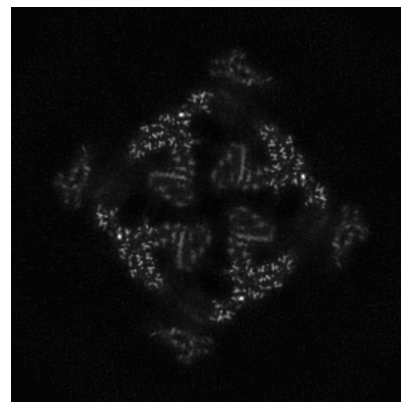
6.2.1 Primary map



X Index: 256



Y Index: 256

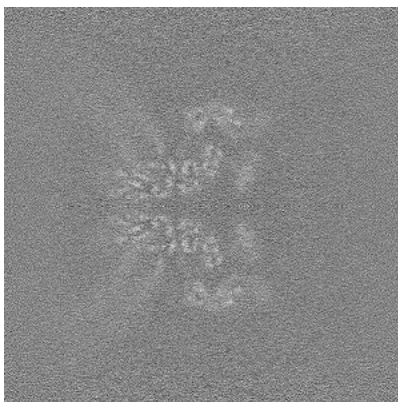


Z Index: 256

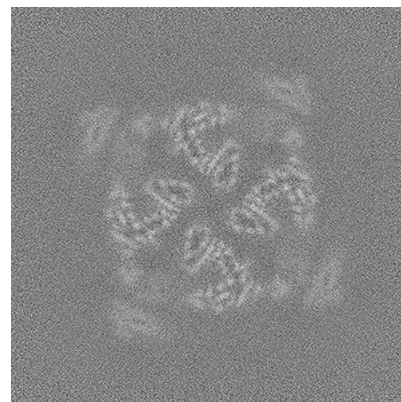
6.2.2 Raw map



X Index: 256



Y Index: 256

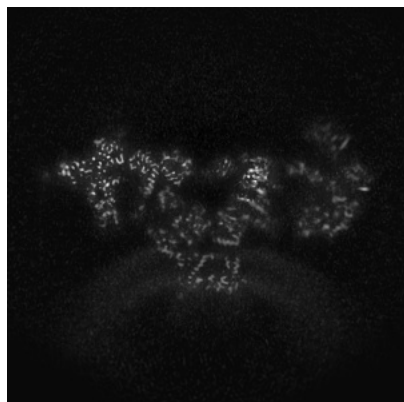


Z Index: 256

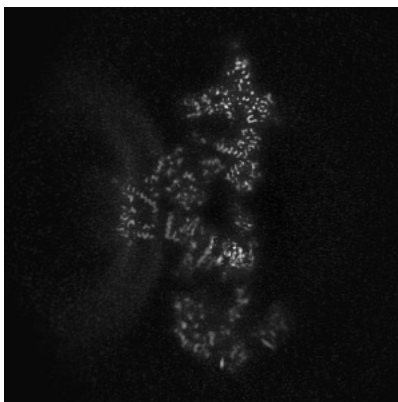
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

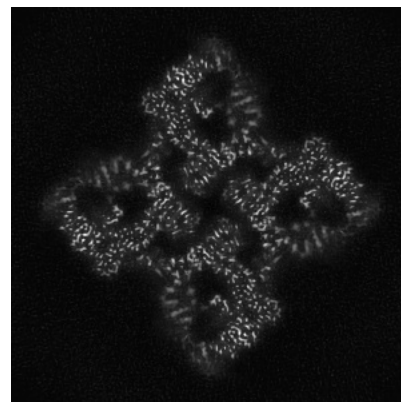
6.3.1 Primary map



X Index: 279

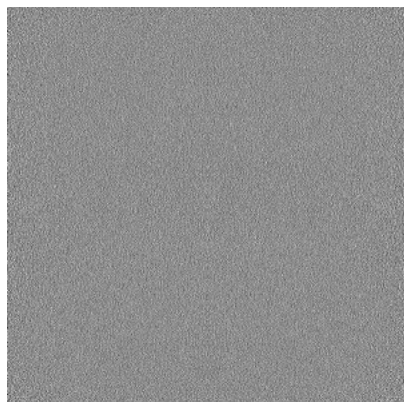


Y Index: 279

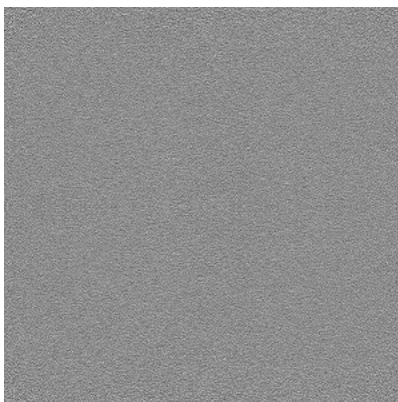


Z Index: 304

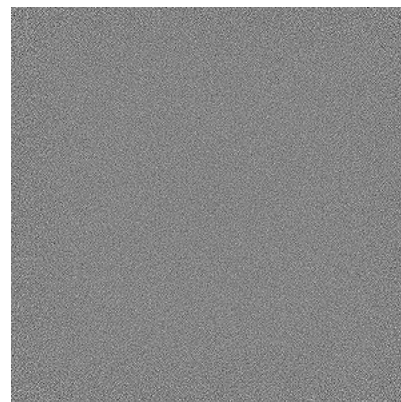
6.3.2 Raw map



X Index: 0



Y Index: 0

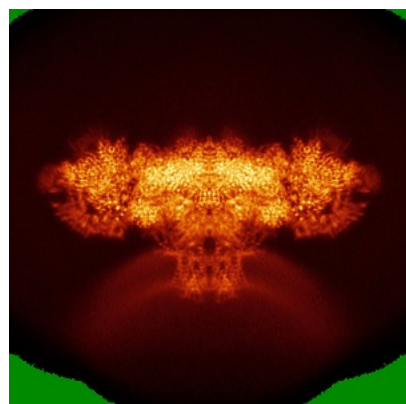


Z Index: 0

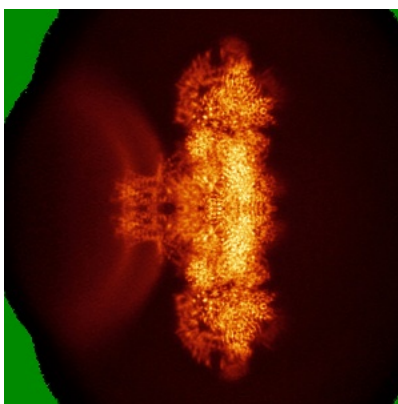
The images above show the largest variance slices of the map in three orthogonal directions.

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

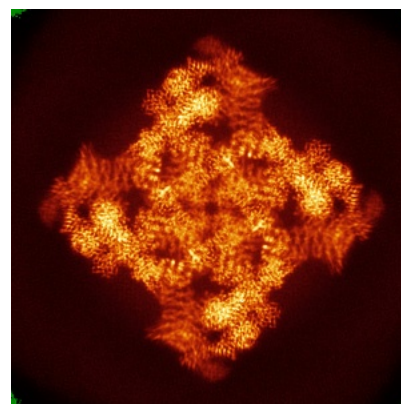
6.4.1 Primary map



X

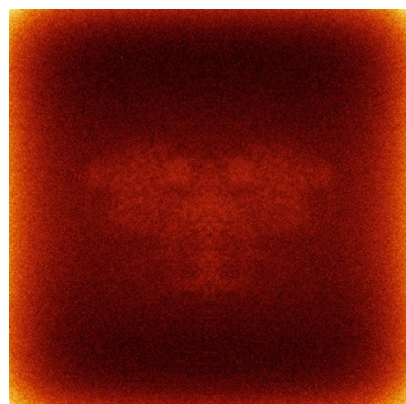


Y

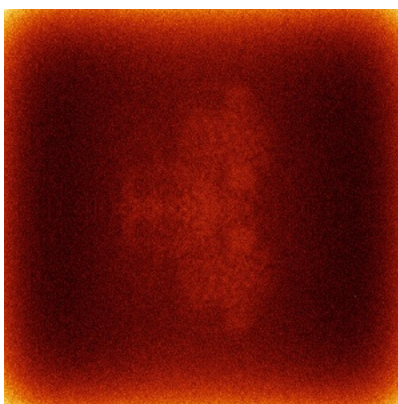


Z

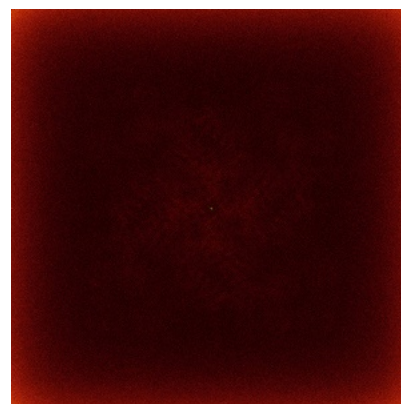
6.4.2 Raw map



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.

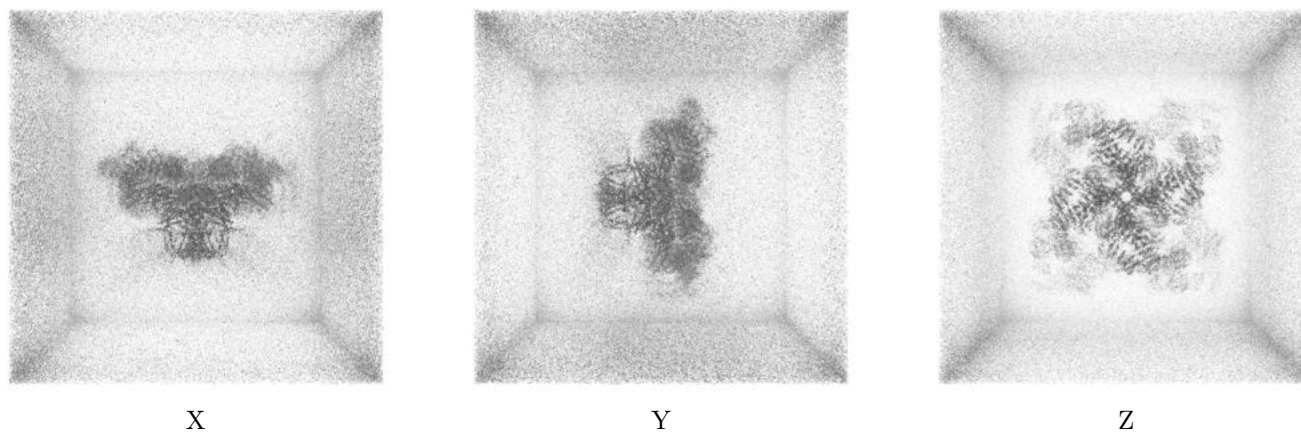
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.106. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

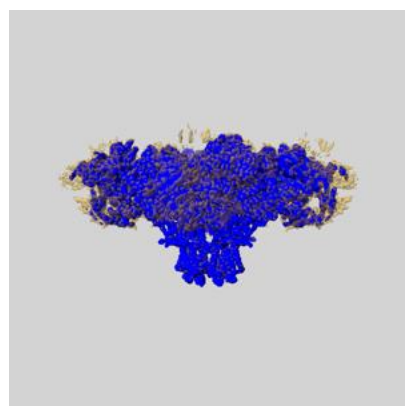
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

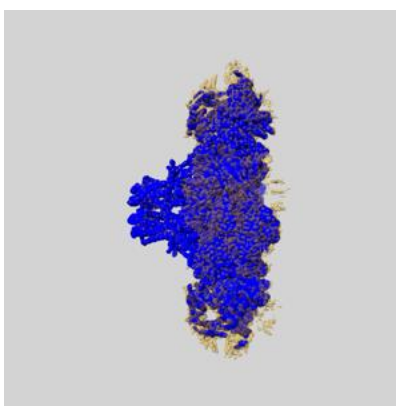
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

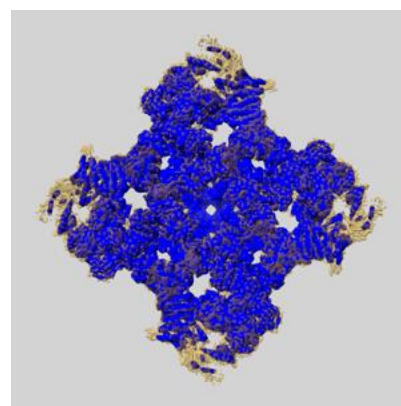
6.6.1 emd_23699_msk_1.map [i](#)



X



Y

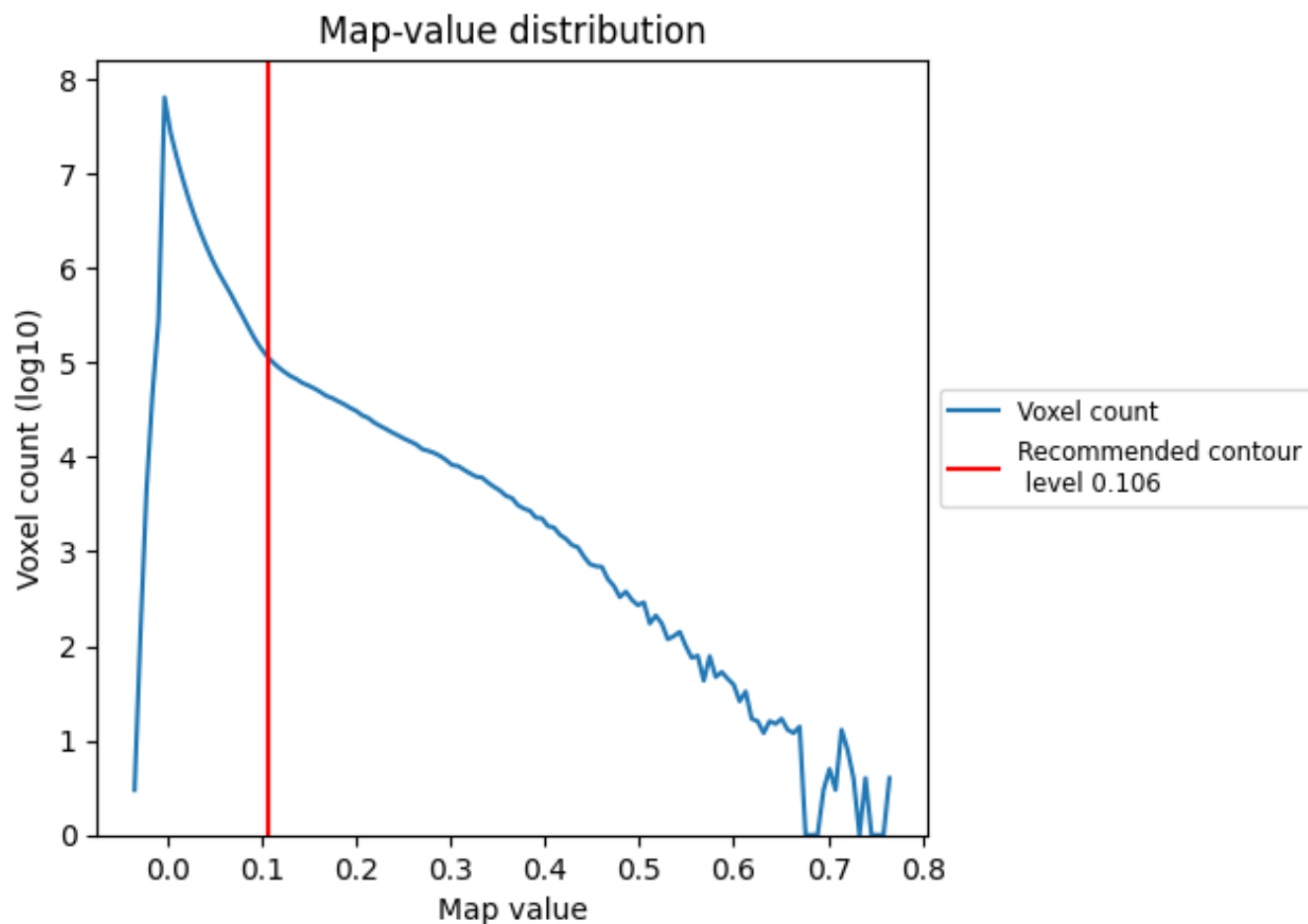


Z

7 Map analysis [i](#)

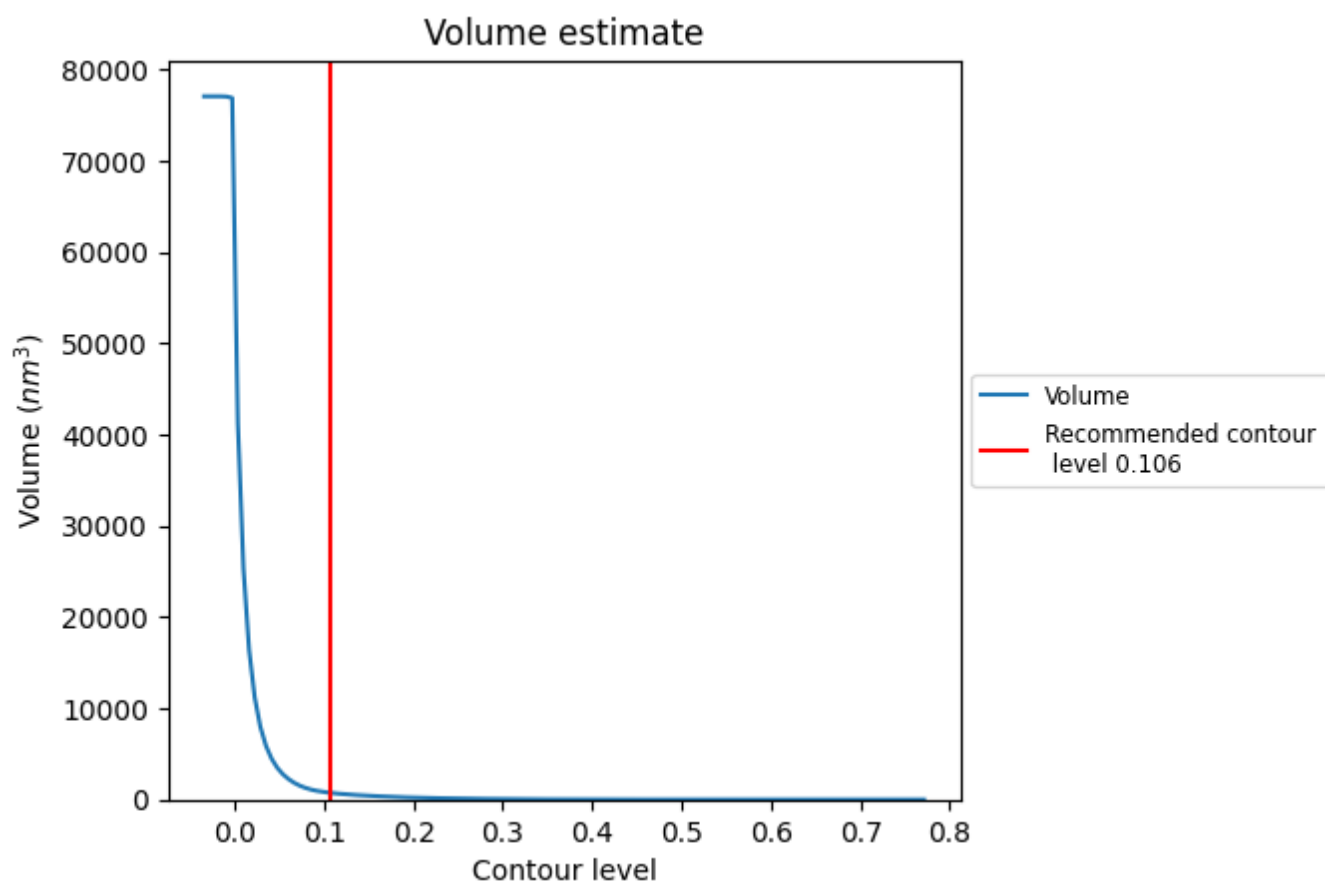
This section contains the results of statistical analysis of the map.

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.

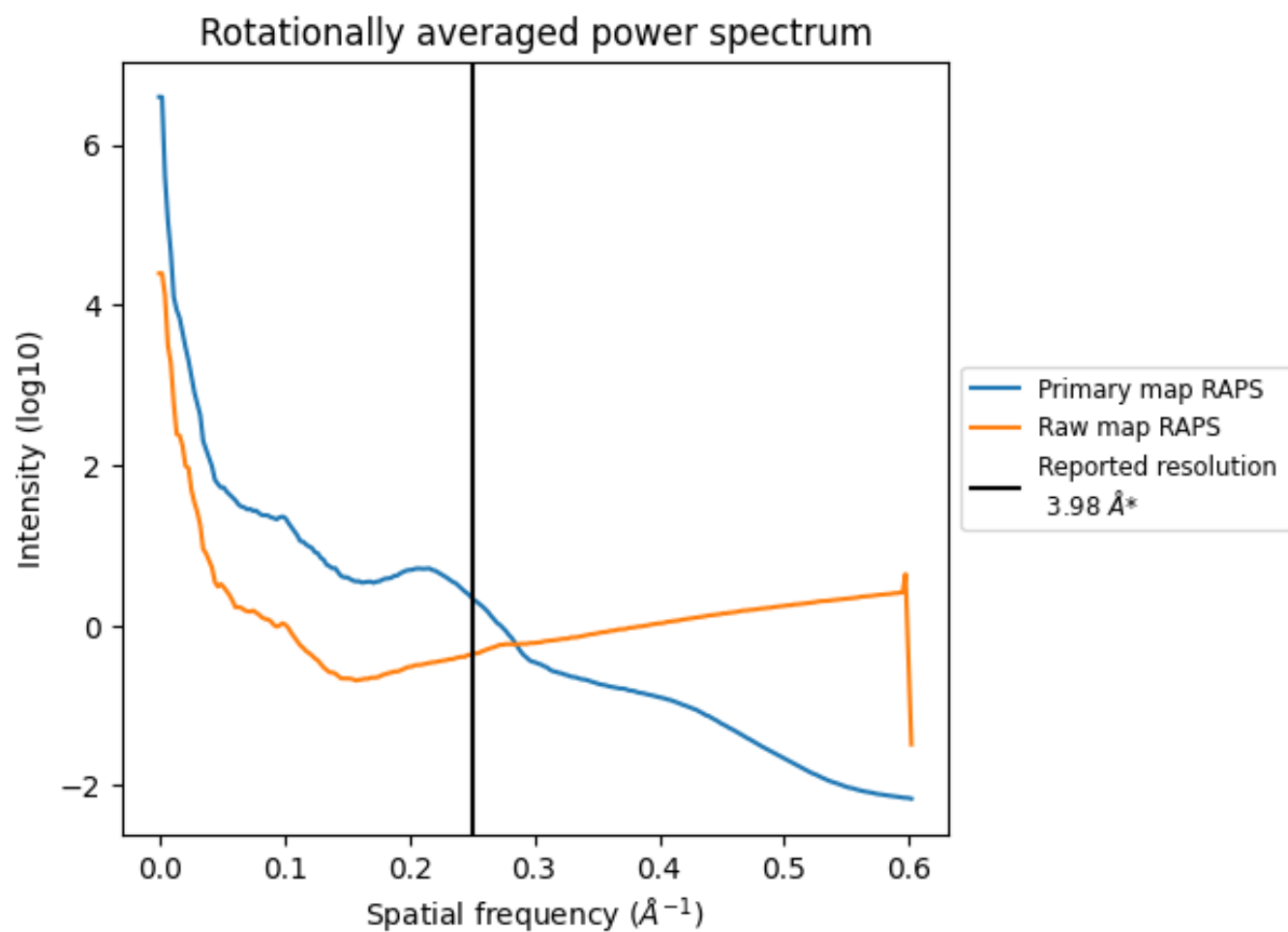
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 747 nm³; this corresponds to an approximate mass of 675 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)

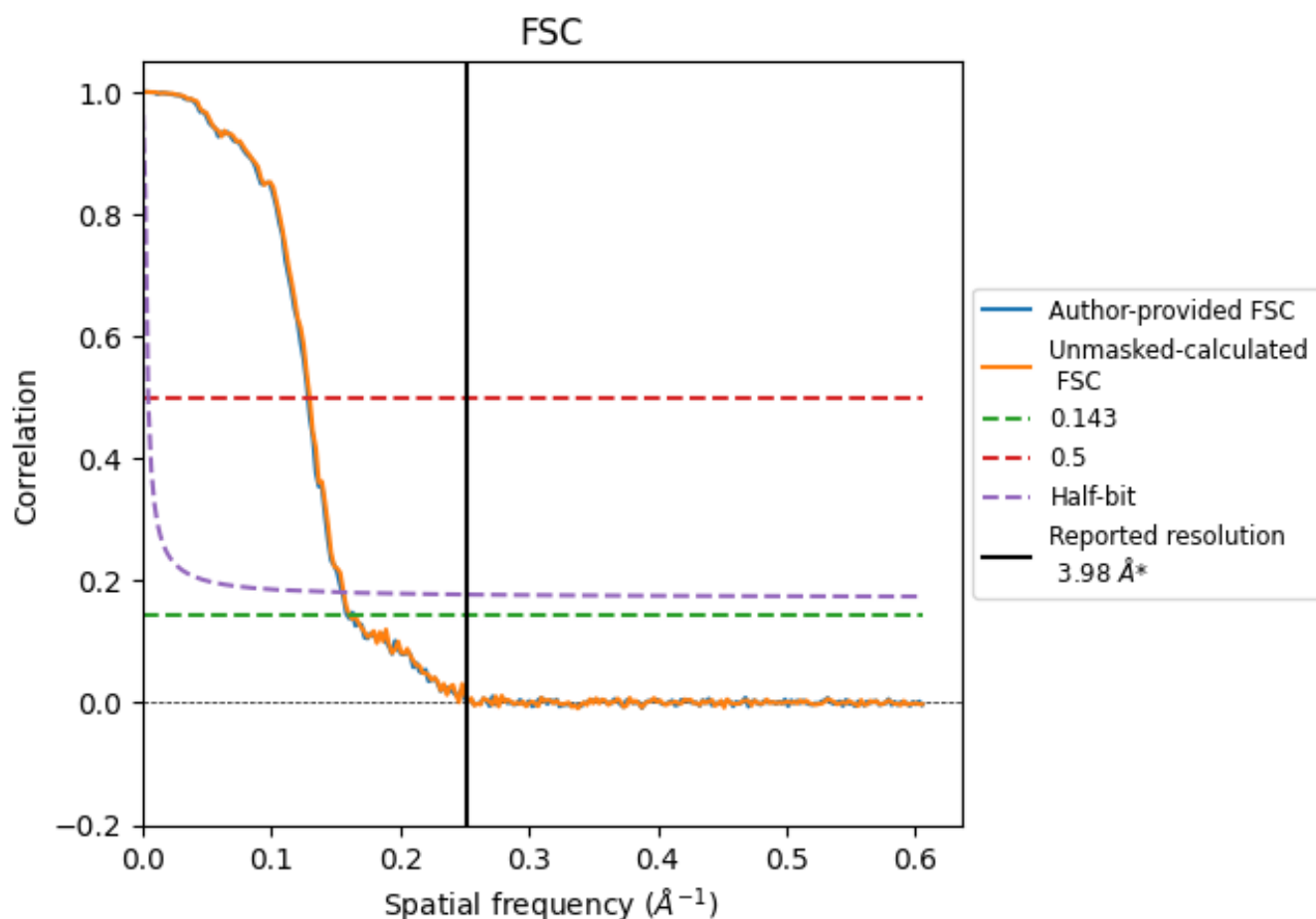


*Reported resolution corresponds to spatial frequency of $0.251 \text{ \AA}^{-1}$

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.251 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.98	-	-
Author-provided FSC curve	6.28	7.78	6.44
Unmasked-calculated*	6.22	7.70	6.40

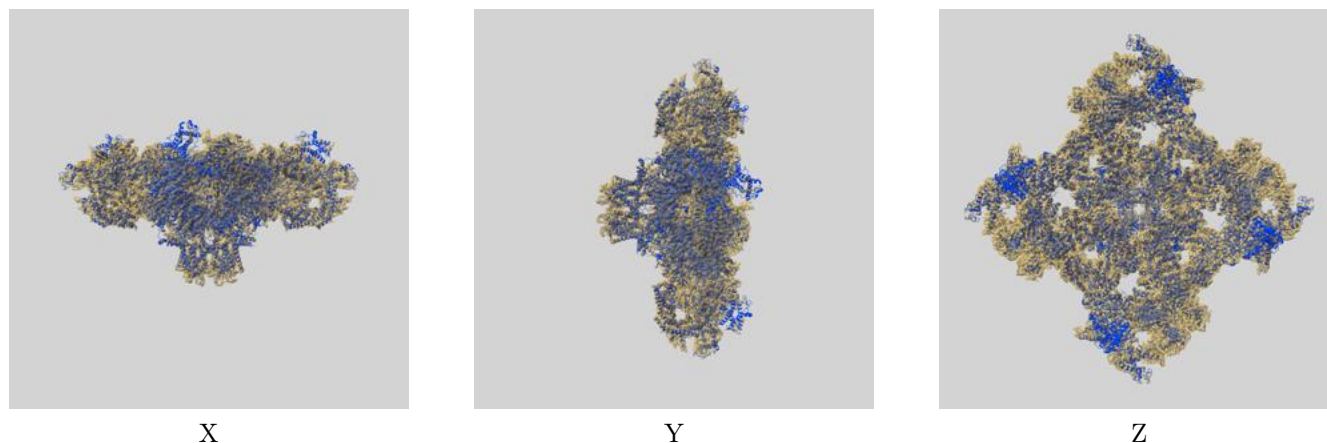
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 6.28 differs from the reported value 3.98 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.22 differs from the reported value 3.98 by more than 10 %

9 Map-model fit [i](#)

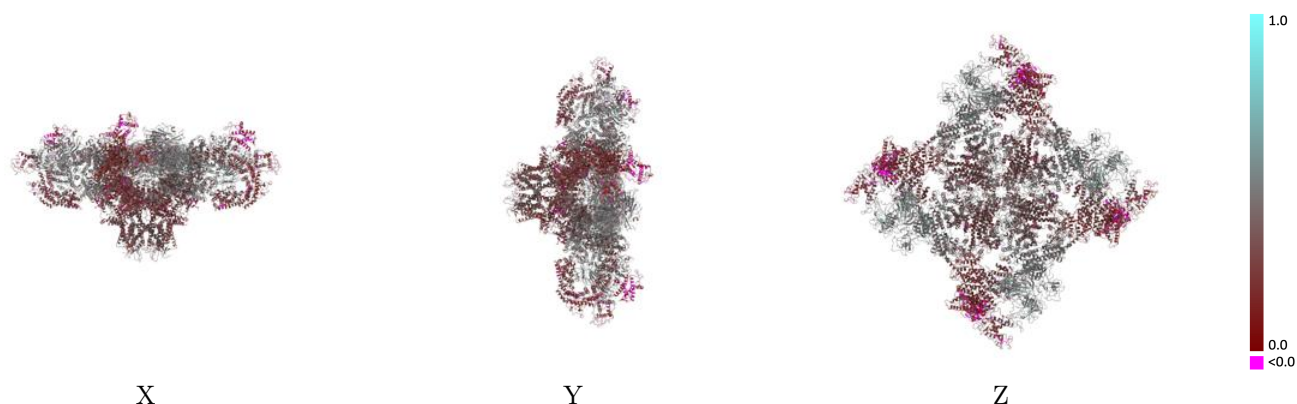
This section contains information regarding the fit between EMDB map EMD-23699 and PDB model 7M6L. Per-residue inclusion information can be found in [section 3](#) on [page 7](#).

9.1 Map-model overlay [i](#)



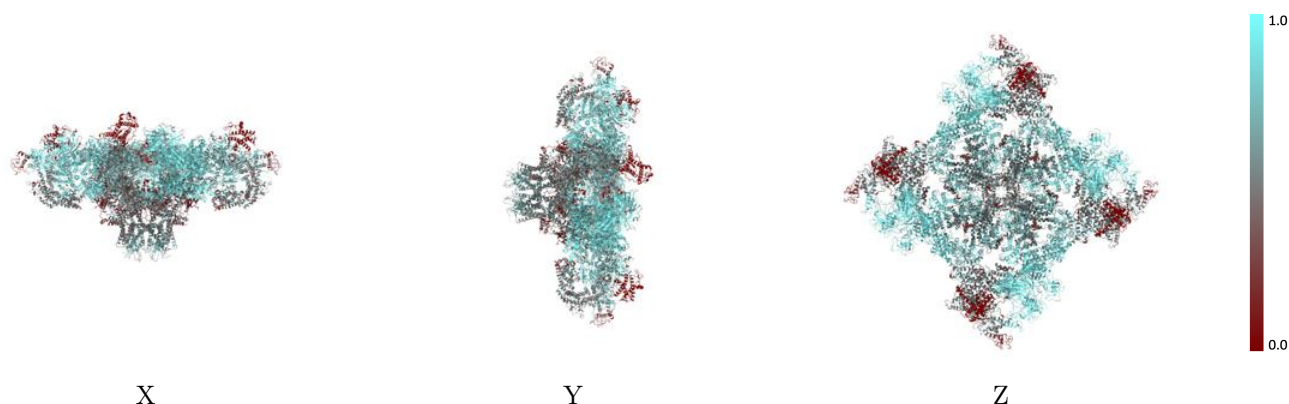
The images above show the 3D surface view of the map at the recommended contour level 0.106 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



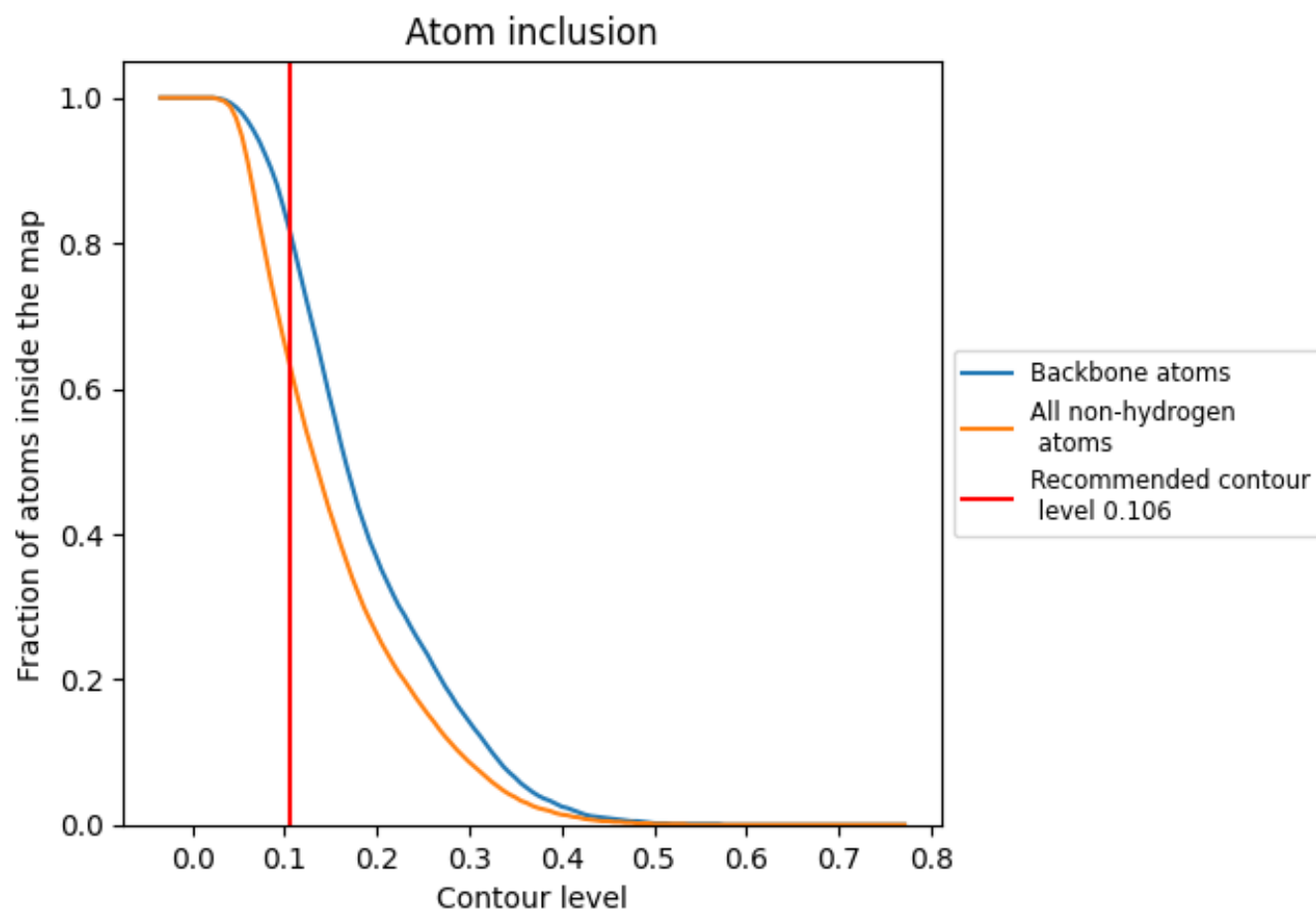
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.106).

9.4 Atom inclusion [i](#)



At the recommended contour level, 82% of all backbone atoms, 63% 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 (0.106) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6300	0.3560
A	0.6280	0.3600
B	0.6240	0.3500
F	0.8110	0.4790
G	0.6250	0.3500
H	0.8000	0.4790
I	0.6260	0.3500
J	0.8100	0.4780
O	0.8090	0.4800

1.0

0.0

<0.0