



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 20, 2023 – 05:25 PM EDT

PDB ID : 5EXR
Title : Crystal structure of human primosome
Authors : Tahirov, T.H.; Baranovskiy, A.G.; Babayeva, N.D.
Deposited on : 2015-11-24
Resolution : 3.60 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.35.1
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35.1

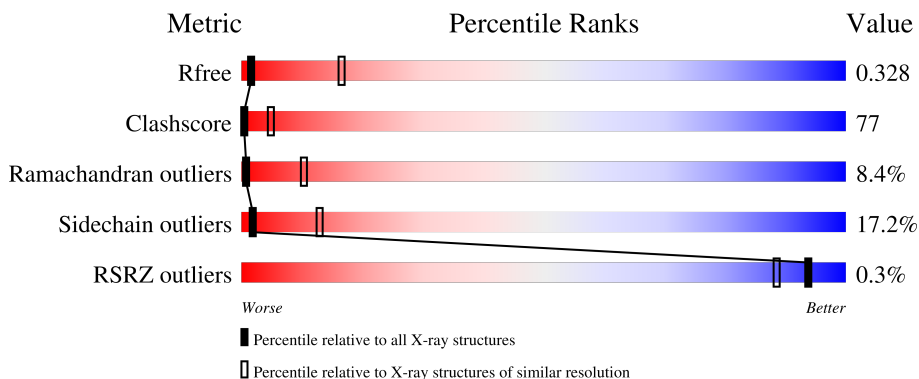
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.60 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.



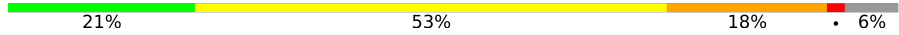


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1257 (3.70-3.50)
Clashscore	141614	1353 (3.70-3.50)
Ramachandran outliers	138981	1307 (3.70-3.50)
Sidechain outliers	138945	1307 (3.70-3.50)
RSRZ outliers	127900	1161 (3.70-3.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	420	 3% 21% 63% 9% 7%
1	E	420	 23% 62% 8% 7%
2	B	509	 20% 48% 16% • 15%
2	F	509	 17% 50% 17% • 15%
3	C	1128	 21% 54% 18% • 6%

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Mol	Chain	Length	Quality of chain
3	G	1128	
4	D	597	
4	H	597	

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	SF4	B	601	-	-	X	-

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 37658 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 DNA primase small subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	389	3261	2099	564	583	15	0	0	0
1	E	389	3261	2099	564	583	15	0	0	0

- Molecule 2 is a protein called DNA primase large subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	434	3562	2280	616	653	13	0	0	0
2	F	434	3562	2280	616	653	13	0	0	0

- Molecule 3 is a protein called DNA polymerase alpha catalytic subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	1057	8544	5477	1433	1578	56	0	0	0
3	G	1057	8544	5477	1433	1578	56	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	516	ALA	VAL	engineered mutation	UNP P09884
G	516	ALA	VAL	engineered mutation	UNP P09884

- Molecule 4 is a protein called DNA polymerase alpha subunit B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	D	444	3451	2194	576	666	15	0	0	0

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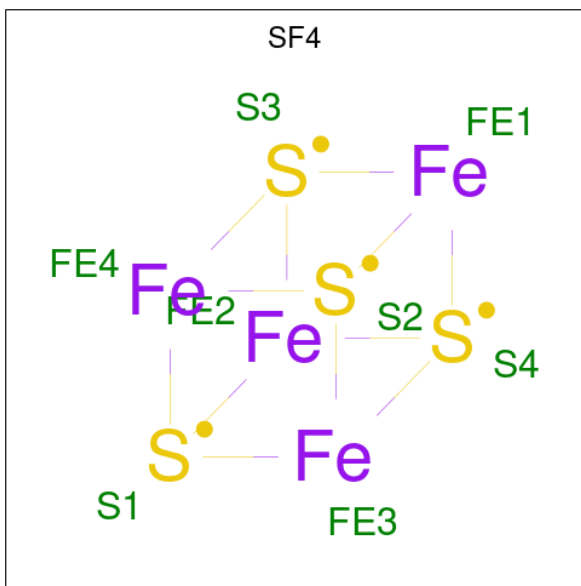
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	H	444	3451	2194	576	666	15	0	0	0

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Zn	0	0
			1	1		
5	C	2	Total	Zn	0	0
			2	2		
5	E	1	Total	Zn	0	0
			1	1		
5	G	2	Total	Zn	0	0
			2	2		

- Molecule 6 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).

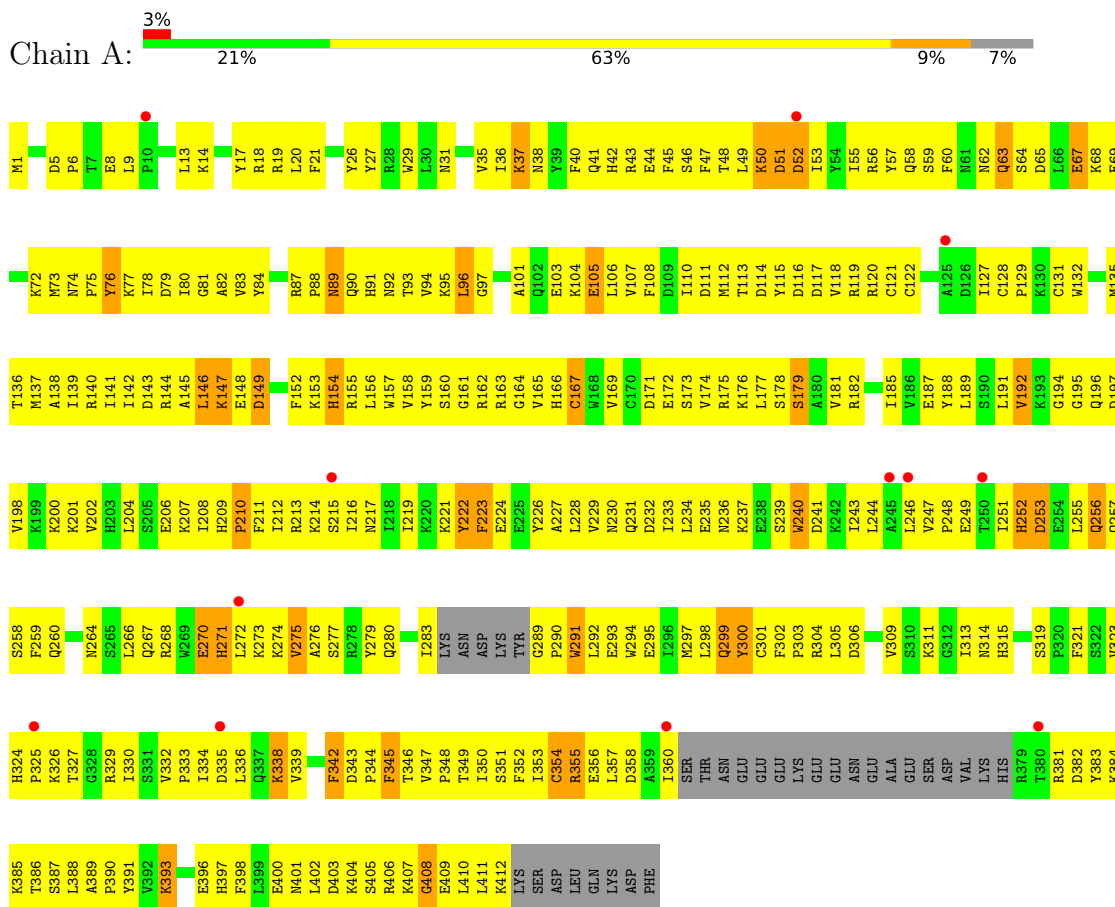


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	B	1	Total	Fe	S	0	0
			8	4	4		
6	F	1	Total	Fe	S	0	0
			8	4	4		

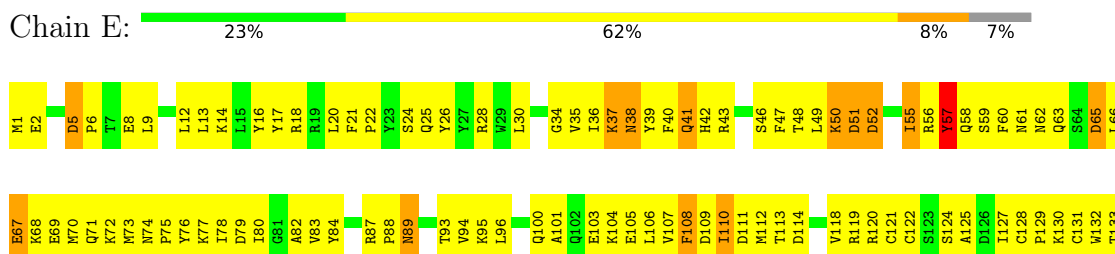
3 Residue-property plots [i](#)

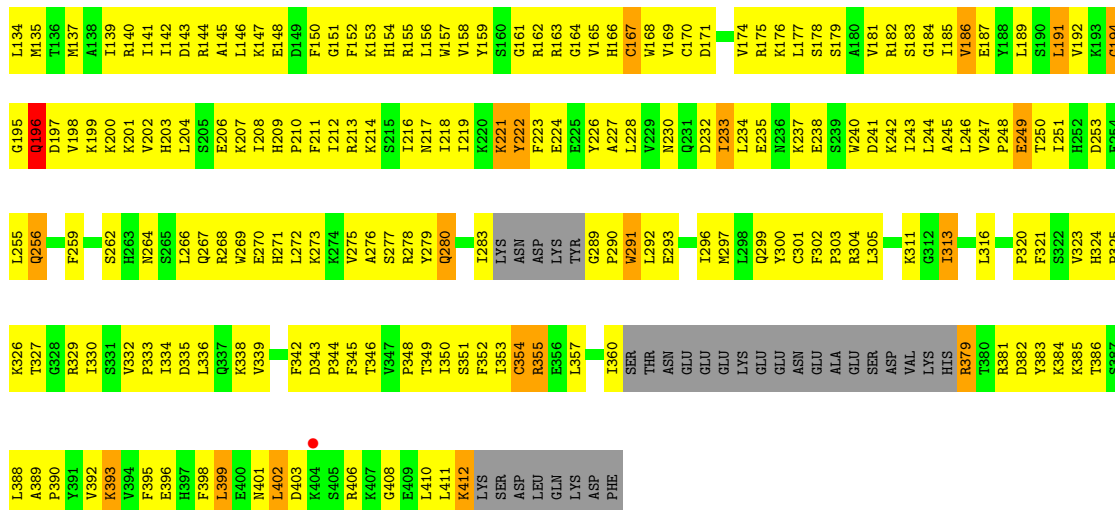
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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: DNA primase small subunit

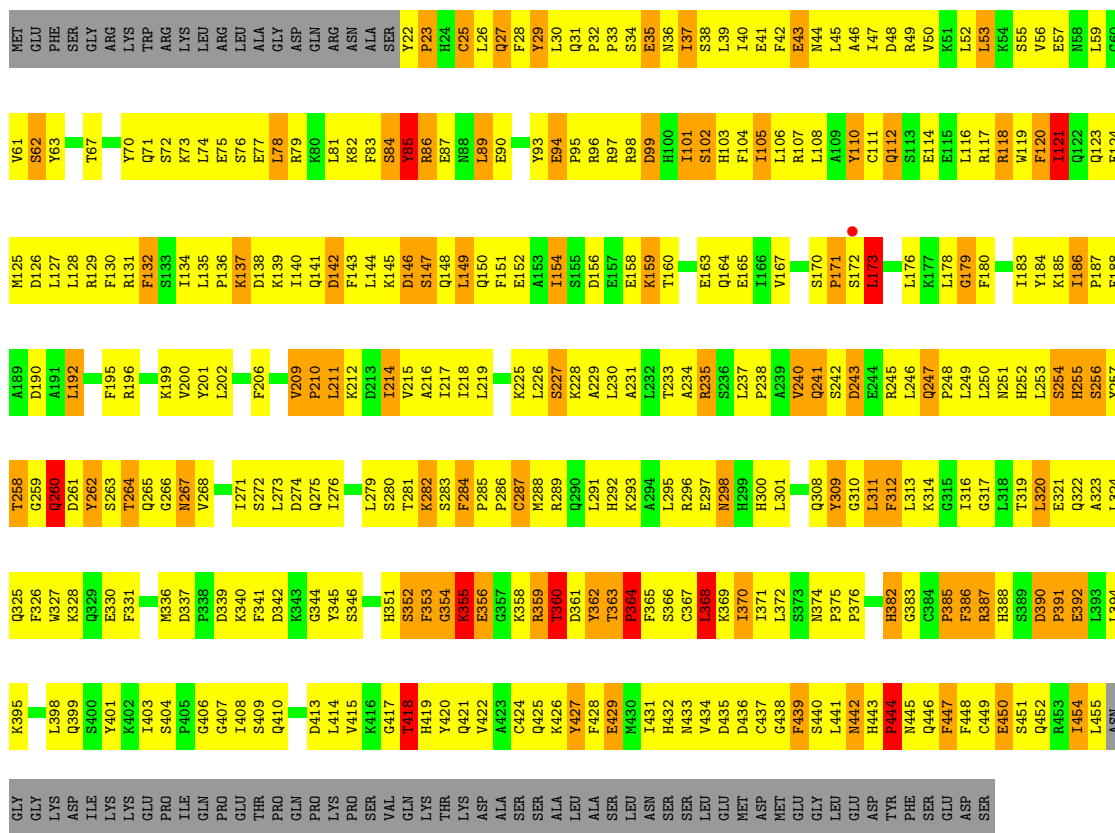
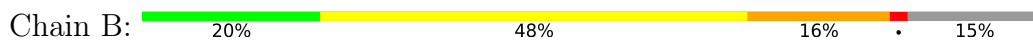


- Molecule 1: DNA primase small subunit

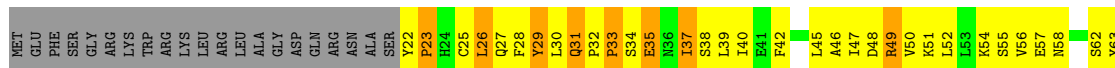
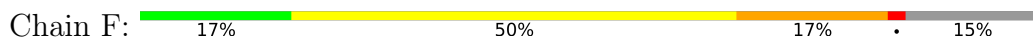




• Molecule 2: DNA primase large subunit



• Molecule 2: DNA primase large subunit



H794	A795	F796	L797	L857	E798	M800	Y801	L802	V803	P804	D805	D806	Q807	L808	PHE	L868	I869	ARG	K870	LYS	E871	F872	M873	L874	C875	F876	L877	T878	A879	K880	R881	V882	ALA	ILE	GLY	ASP	GLY	ASP	THR	GLN	ASN	LYS	VAL	THR	TYR	LYS	LYS	GLY	GLY	ALA	ALA	TYR	ALA	ALA	E900	L901	P902	D903	F904	S905	L906	F907	E907	M908	K908	A909	K909	I910	L911	P912	R913																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
K854	F855	I856	R857	L858	L859	M860	Y861	M862	S863	L864	Y865	P866	S867	I868	I869	E870	F871	M872	L873	L874	C875	F876	L877	T878	A879	K880	R881	V882	ALA	ILE	GLY	ASP	GLY	ASP	THR	GLN	ASN	LYS	VAL	THR	TYR	LYS	LYS	GLY	GLY	ALA	ALA	TYR	ALA	ALA	E900	L901	P902	D903	F904	S905	L906	F907	E907	M908	K908	A909	K909	I910	L911	P912	R913																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
E914	I915	K916	R917	L918	V919	E920	R921	A922	F923	Q924	V925	K926	Q927	L928	M929	K930	Q931	Q932	D933	L934	N935	P936	D937	L938	I939	L940	L941	F942	D943	I944	S945	M946	L947	L948	L949	L950	L951	L952	A953	N954	N955	N956	N957	N958	N959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	Y1000	G1001	D1002	T1003	D1004	D1005	D1006	M1007	L1008	M1009	A1010	M1011	M1012	M1013	M1014	L1015	E1016	E1017	V1018	F1019	K1020	L1021	G1022	M1023	K1024	G1025	F1026	K1027	V1028	S1029	E1030	Q1031	M1032	L1033	D1034	K1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	L1046	L1047	L1048	L1049	L1050	K1051	K1052	K1053	K1054	K1055	K1056	K1057	K1058	K1059	K1060	K1061	K1062	K1063	K1064	K1065	K1066	K1067	K1068	K1069	K1070	K1071	K1072	K1073	K1074	K1075	K1076	K1077	K1078	K1079	K1080	K1081	K1082	K1083	K1084	K1085	K1086	K1087	K1088	K1089	K1090	K1091	K1092	K1093	K1094	K1095	K1096	K1097	K1098	K1099	K1100	K1101	K1102	K1103	K1104	K1105	K1106	K1107	K1108	K1109	K1110	K1111	K1112	K1113	K1114	K1115	K1116	K1117	K1118	K1119	K1120	K1121	K1122	K1123	K1124	K1125	K1126	K1127	K1128	K1129	K1130	K1131	K1132	K1133	K1134	K1135	K1136	K1137	K1138	K1139	K1140	K1141	K1142	K1143	K1144	K1145	K1146	K1147	K1148	K1149	K1150	K1151	K1152	K1153	K1154	K1155	K1156	K1157	K1158	K1159	K1160	K1161	K1162	K1163	K1164	K1165	K1166	K1167	K1168	K1169	K1170	K1171	K1172	K1173	K1174	K1175	K1176	K1177	K1178	K1179	C1180	L1181	D1182	G1183	S1184	M1185	L1186	T1187	A1188	S1189	E1190	Q1191	R1192	A1193	Y1194	L1195	E1196	Q1197	L1198	K1199	L1200	K1201	Q1202	D1203	M1204	K1205	T1206	L1207	T1208	Q1209	Y1210	Y1211	L1212	A1213	D1214	Q1215	L1216	H1217	K1218	V1219	V1220	A1221	K1222	L1223	C1224	E1225	L1226	L1227	L1228	L1229	L1230	L1231	L1232	L1233	L1234	L1235	L1236	L1237	L1238	L1239	L1240	L1241	L1242	L1243	L1244	L1245	F1246	R1247	H1248	H1249	H1250	Y1251	H1252	L1253	D1254	L1255	E1256	M1257	D1258	ALA	L1259	L1260	L1261	L1262	L1263	L1264	L1265	L1266	L1267	L1268	E1269	K1270	K1271	K1272	K1273	R1274	D1275	C1276	E1277	R1278	F1279	K1280	C1281	L1282	C1283	C1284	E1285	K1286	D1287	D1288	D1289	E1290	L1291	K1292	K1293	L1294	L1295	L1296	L1297	L1298	L1299	F1300	L1301	D1302	F1303	E1304	P1305	S1306	L1307	F1308	R1309	C1310	A1311	M1312	F1313	D1314	C1315	K1316	L1317	S1318	P1319	L1320	L1321	F1322	Q1323	L1324	L1325	S1326	S1327	K1328	T1329	Q1330	L1331	M1332	D1333	L1334	R1335	L1336	F1337	D1338	A1339	Y1340	E1341	A1342	D1343	G1344	V1345	K1346	L1347	L1348	L1349	E1350	P1351	C1352	C1353	L1354	L1355	L1356	L1357	L1358	L1359	F1360	P1361	Q1362	Q1363	F1364	G1365	L1366	L1367	L1368	L1369	L1370	L1371	L1372	L1373	L1374	L1375	L1376	L1377	L1378	L1379	Q1380	P1381	L1382	E1383	Y1384	S1385	S1386	S1387	L1388	Y1389	L1390	Q1391	L1392	C1393	L1394	Y1395	L1396	L1397	L1398	F1399	D1400	A1401	E1402	C1403	A1404	L1405	E1406	K1407	L1408	T1409	T1410	D1411	K1412	D1413	K1414	D1415	K1416	L1417	K1418	K1419	Q1420	F1421	F1422	L1423	L1424	L1425	L1426	L1427	L1428	L1429	L1430	L1431	L1432	L1433	L1434	L1435	L1436	L1437	E1438	F1439	F1440	L1441	S1442	R1443	G1444	G1445	Y1446	S1447	E1448	L1449	M1450	L1451	L1452	L1453	L1454	L1455	A1456	L1457	L1458	L1459	L1460	L1461	L1462	L1463	L1464	L1465	L1466	L1467	L1468	L1469	L1470	L1471	L1472	L1473	L1474	L1475	L1476	L1477	L1478	L1479	L1480	L1481	L1482	L1483	L1484	L1485	L1486	L1487	L1488	L1489	L1490	L1491	L1492	L1493	L1494	L1495	L1496	L1497	L1498	L1499	E1500	K1501	K1502	Q1503	L1504	L1505	L1506	L1507	N1508	Q1509	P1510	N1511	S1512	C1513	C1514	L1515	L1516	L1517	L1518	L1519	L1520	L1521	L1522	L1523	L1524	L1525	L1526	L1527	L1528	L1529	L1530	L1531	L1532	L1533	L1534	L1535	L1536	L1537	L1538	L1539	M1540	A1541

● Molecule 3: DNA polymerase alpha catalytic subunit

Chain G: 21% 53% 18% ● 6%

ALA	ASP	GLU	E338	Q339	V340	F341	H342	F343	Y344	W345	L346	Y349	E350	D351	N354	Q355	V358	V359	F360	L361	F362	G363	K364	V365	W366	I367	E368	E371	F372	H373	V374	S375	C376	C377	V378	M379	V380	K381	N382	I383	L387	Y388	F389	L390	P391	R392	E393	M394	K395	L398	L399	K402	V403
T406	F407	L408	M409	S410	K411	D412	Y413	Y414	E415	W416	F417	D418	E419	K420	I421	Y425	K426	L427	N428	E429	F430	K433	K437	N438	W439	I440	A441	F441	V446	F447	E448	K449	Y452	L453	E454	K522	K456	Y457	S458	M461	P462	Q463	L464	L468	K469	G470	E471	T472	F473	S474	H475	V476	
F477	G478	T479	M480	L484	E485	L486	F487	L488	M489	M490	K491	K492	L493	K494	G495	G497	L498	E500	V501	K502	Q505	L506	L507	N508	Q509	P510	N511	S512	C514	L517	A518	M519	A520	L521	K522	P523	D524	L525	V528	I529	K530	D531	V532	S533	P534	P535	P536	L537	V538	M539	L540	A541	

A1437	E1438	F1439	F1440	L1441	S1442	R1443	S1444	G1445	Y1446	E1448	V1449	M1450	L1451	L1454	F1455	A1456	GLY	CYS	ALA	VAL	LYS	SER																																																																																																																																																																								
M1375	K1376	A1377	T1378	L1379	Y1383	S1384	D1385	K1386	S1387	L1388	Y1389	T1390	Q1391	L1392	C1393	F1394	Y1395	R1396	Y1397	I1398	F1399	D1400	A1401	E1402	C1403	A1404	L1405	A1406	K1407	L1408	T1409	D1410	D1411	H1412	E1413	K1414	D1415	K1416	L1417	K1418	K1419	Q1420	F1421	F1422	T1423	P1424	V1426	L1427	Q1428	D1429	Y1430	R1431	K1432	L1433	K1434	M1435	L1436																																																																																																																																					
V1248	H1249	H1250	H1251	H1252	K1253	D1254	E1255	E1256	N1257	D1258	ALA	LEU	LEU	GLY	GLY	PRO	ALA	Q1266	L1267	T1268	E1271	K1272	K1273	Y1274	D1275	D1276	C1277	R1278	E1279	K1280	C1281	P1282	C1283	P1284	T1285	C1286	N1289	I1291	Y1292	D1293	I1294	V1295	F1296	D1297	S1298	G1299	G1300	I1301	T1302	T1303	G1304	L1305	G1306	P1307	S1308	L1309	C1310	C1311	C1312	C1313	L1314	C1315	K1316	A1317	S1318	P1319	L1320	T1321	F1322	Q1323	L1324	L1325	V1128	P1129	V1130	S1131	Q1132	F1133	E1134	I1135	N1136	L1139	T1140	K1141	D1142	P1143	Q1144	H1145	Y1146	P1147	D1148	K1149	K1150	S1151	H1154	V1155	V1157	F1158	A1159	L1160	I1161	N1162	S1163	V1175	Y1177	V1178	I1179	C1180	Q1181	D1242	P1243	T1244	Q1245	S1184	M1185	L1186																																																																										
T1187	A1188	S1189	Q1190	R1191	A1192	Y1193	A1194	P1195	E1196	L1197	L1198	L1199	K1200	Q1201	D1202	N1203	L1204	F1133	E1134	I1135	N1136	L1139	T1140	K1141	D1142	P1143	Q1144	H1145	Y1146	P1147	D1148	K1149	K1150	S1151	H1154	V1155	V1157	F1158	A1159	L1160	I1161	N1162	S1163	V1175	Y1177	V1178	I1179	C1180	Q1181	D1242	P1243	T1244	Q1245	S1184	M1185	L1186																																																																																																																																						
K1114	R1115	L1116	L1117	L1118	E1119	G1120	E1121	N1122	L1123	L1124	M1125	V1128	P1129	V1130	S1131	Q1132	F1133	E1134	I1135	N1136	L1139	T1140	K1141	D1142	P1143	Q1144	H1145	Y1146	P1147	D1148	K1149	K1150	S1151	H1154	V1155	V1157	F1158	A1159	L1160	I1161	N1162	S1163	V1175	Y1177	V1178	I1179	C1180	Q1181	D1242	P1243	T1244	Q1245	S1184	M1185	L1186																																																																																																																																							
F1044	K1045	S1046	L1047	L1048	L1049	L1050	K1051	Y1055	A1056	A1057	L1058	Y1059	V1060	D1061	L1062	Y1063	S1064	Y1068	K1074	L1075	K1076	G1077	L1078	R1081	L1082	D1083	A1084	L1085	L1086	D1087	L1088	A1089	G1092	M1093	F1094	V1095	L1096	L1097	L1098	I1099	L1100	S1101	D1102	Q1103	S1104	R1105	D1106	T1107	C1180	Q1181	D1242	P1243	T1244	Q1245	S1184	M1185	L1186																																																																																																																																					
E914	I915	R916	L917	L918	L919	E920	R921	R922	V925	L926	Q927	D933	L934	N935	Q936	D937	L938	L939	L940	Q941	G942	D943	I944	R945	Q946	K947	A948	L949	K950	L951	F952	L953	A954	N955	S956	Y957	G958	C959	L960	L961	G962	R966	F967	Y968	L969	L970	P971	L972	L973	A974	L975	L976	L977	L978	L979	G980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043																																																																							
H794	A795	F796	F797	E798	N799	N800	Y801	R802	F803	R804	H745	H746	R806	Q807	P808	PHE	ARG	ARG	ARG	LYS	LYS	PRO	GLN	GLN	L753	Q754	L755	L756	L757	L758	L759	V760	L761	L762	L763	L764	A765	L766	C767	L768	L769	N770	I771	A772	R773	L774	L775	L776	R777	R778	L779	L780	L781	R784	S785	E786	R787	N788	K789	G890	L910	L911	F851	L912	L913	D853																																																																																																																												
K854	F855	L856	L857	L858	L859	D860	F861	M862	S863	L864	R865	P866	S867	R868	L869	Q870	E871	F872	M873	R874	C875	L876	T877	T878	R879	Q880	R881	L882	V883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	P904	S905	L906	E907	L908	K848	G909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043
M668	M669	P670	K671	K672	LEU	GLY	GLY	ARG	SER	GLY	PHE	G680	E681	R682	L683	A684	K685	C686	G687	R688	M689	D690	P631	S667	F688	L634	V635	L636	L637	M638	L700	I701	R702	C703	L704	L705	L706	H707	L708	S709	E710	L711	L712	Q713	Q714	L715	L716	K717	T718	E719	R720	V721	V722	I723	I662	I663	R664	L665	K666	L728	L793																																																																																																																																	
F542	S543	M544	M547	Q548	M549	A550	K551	R552	T553	H554	M555	E556	I557	L558	A559	M560	A561	A562	L563	V564	V565	H566	S567	F568	L569	L570	P575	P578	F579	Q580	S581	H582	L583	L584	V585	V586	S587	K588	L644	L645	V586	V587	C654	I593	F594	P595	Y596	A597	F598	K599	E600	K601	I602	E603	K604	K605	N606																																																																																																																																					

• Molecule 4: DNA polymerase alpha subunit B

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	113.10Å 210.16Å 172.56Å 90.00° 93.56° 90.00°	Depositor
Resolution (Å)	39.94 – 3.60 49.73 – 3.30	Depositor EDS
% Data completeness (in resolution range)	68.9 (39.94-3.60) 73.5 (49.73-3.30)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.36 (at 3.33Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.268 , 0.326 0.275 , 0.328	Depositor DCC
R_{free} test set	4621 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	78.1	Xtrriage
Anisotropy	0.047	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 69.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	37658	wwPDB-VP
Average B, all atoms (Å ²)	61.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 44.59 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.4935e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, SF4

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.51	0/3343	0.72	0/4508
1	E	0.48	0/3343	0.67	0/4508
2	B	0.57	0/3646	0.82	5/4908 (0.1%)
2	F	0.57	0/3646	0.80	3/4908 (0.1%)
3	C	0.58	0/8724	0.83	3/11788 (0.0%)
3	G	0.58	1/8724 (0.0%)	0.83	5/11788 (0.0%)
4	D	0.61	0/3529	0.86	2/4795 (0.0%)
4	H	0.60	0/3529	0.86	3/4795 (0.1%)
All	All	0.57	1/38484 (0.0%)	0.81	21/51998 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	2
2	F	0	1
3	C	0	1
3	G	0	1
4	D	0	1
4	H	0	1
All	All	0	7

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	G	1371	CYS	CB-SG	-5.25	1.73	1.81

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	368	LEU	CA-CB-CG	-7.73	97.53	115.30
2	B	368	LEU	CA-CB-CG	-7.12	98.92	115.30
4	D	202	LEU	CA-CB-CG	6.87	131.10	115.30
4	H	202	LEU	CA-CB-CG	6.48	130.21	115.30
3	C	742	LEU	CA-CB-CG	-6.32	100.76	115.30
3	G	553	HIS	N-CA-C	6.23	127.82	111.00
3	C	553	HIS	N-CA-C	6.13	127.56	111.00
3	G	1405	LEU	CA-CB-CG	-6.13	101.19	115.30
3	C	1447	SER	N-CA-C	-6.01	94.76	111.00
3	G	1447	SER	N-CA-C	-5.97	94.88	111.00
3	G	738	LEU	CA-CB-CG	-5.93	101.65	115.30
2	F	355	LYS	N-CA-C	5.86	126.82	111.00
4	H	377	LEU	CA-CB-CG	-5.67	102.27	115.30
2	B	355	LYS	N-CA-C	5.62	126.19	111.00
2	B	89	LEU	CA-CB-CG	5.30	127.49	115.30
2	F	354	GLY	N-CA-C	5.12	125.89	113.10
4	H	284	ILE	CG1-CB-CG2	-5.10	100.18	111.40
2	B	53	LEU	CA-CB-CG	-5.10	103.57	115.30
2	B	354	GLY	N-CA-C	5.10	125.84	113.10
4	D	377	LEU	CA-CB-CG	-5.03	103.74	115.30
3	G	1252	HIS	N-CA-C	-5.00	97.49	111.00

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	110	TYR	Sidechain
2	B	309	TYR	Sidechain
3	C	740	TYR	Sidechain
4	D	349	TYR	Sidechain
2	F	110	TYR	Sidechain
3	G	452	TYR	Sidechain
4	H	442	TYR	Sidechain

5.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3261	0	3247	444	0
1	E	3261	0	3247	419	0
2	B	3562	0	3542	548	0
2	F	3562	0	3542	557	0
3	C	8544	0	8632	1431	0
3	G	8544	0	8634	1426	0
4	D	3451	0	3425	535	0
4	H	3451	0	3425	532	0
5	A	1	0	0	0	0
5	C	2	0	0	0	0
5	E	1	0	0	0	0
5	G	2	0	0	0	0
6	B	8	0	0	3	0
6	F	8	0	0	0	0
All	All	37658	0	37694	5765	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 77.

All (5765) 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)
3:G:858:LEU:HD13	3:G:1007:MET:HG3	1.23	1.21
2:B:209:VAL:HG12	2:B:210:PRO:HD2	1.25	1.19
3:C:730:ASN:H	3:C:730:ASN:ND2	1.28	1.19
4:D:476:LEU:HD11	4:D:502:ILE:HD11	1.22	1.14
1:E:20:LEU:HD21	1:E:357:LEU:HD22	1.16	1.13
3:C:1279:PHE:HB2	3:C:1395:TYR:HE1	1.15	1.12
3:G:1188:ALA:HA	3:G:1191:ARG:HE	1.08	1.11
2:B:439:PHE:CE2	2:B:450:GLU:HG2	1.84	1.11
1:A:224:GLU:HG2	1:A:228:LEU:HD12	1.17	1.11
4:H:308:ASN:HD21	4:H:311:GLY:HA2	1.07	1.10
3:C:730:ASN:HD22	3:C:730:ASN:N	1.35	1.10
4:H:306:GLY:HA2	4:H:317:THR:HG23	1.33	1.09
3:G:1427:LEU:HD22	3:G:1431:ARG:HH12	1.03	1.09
4:D:308:ASN:HD21	4:D:311:GLY:HA2	1.13	1.09
3:G:650:ARG:HH11	3:G:650:ARG:HA	0.98	1.09
3:C:935:ASN:HD21	3:C:937:ASP:HB2	1.16	1.08
4:D:227:LEU:HD11	4:D:231:LEU:HG	1.36	1.08
4:H:308:ASN:ND2	4:H:311:GLY:HA2	1.66	1.08
4:H:360:LEU:HD11	4:H:409:ILE:HD11	1.25	1.08
4:D:360:LEU:HD11	4:D:409:ILE:HD11	1.28	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:864:LEU:HD23	3:G:1004:ASP:HB3	1.35	1.08
3:C:563:LEU:HD21	3:C:746:TRP:NE1	1.65	1.08
4:D:170:VAL:HG11	4:D:594:GLN:HE21	1.11	1.08
4:H:342:VAL:HG22	4:H:374:VAL:HB	1.32	1.08
2:B:93:TYR:HD2	2:B:96:ARG:HB2	1.07	1.07
3:G:364:LYS:HZ2	3:G:537:LEU:HD23	1.17	1.07
3:G:539:VAL:HG21	3:G:568:PHE:HD2	1.13	1.07
3:G:848:LYS:NZ	3:G:997:GLU:HG3	1.68	1.07
3:G:689:MET:SD	3:G:776:MET:HG2	1.95	1.07
3:G:1139:LEU:H	3:G:1139:LEU:HD12	1.18	1.07
1:A:43:ARG:HH11	1:A:80:ILE:HG22	1.19	1.06
4:D:166:ASN:HD22	4:D:166:ASN:N	1.52	1.06
4:D:202:LEU:HD21	4:D:438:PRO:HA	1.37	1.06
1:E:224:GLU:HG2	1:E:228:LEU:HD12	1.33	1.06
4:H:194:LYS:HG3	4:H:463:SER:HB3	1.36	1.06
1:A:55:ILE:HG13	1:A:58:GLN:HE22	1.20	1.06
3:C:1250:HIS:CG	3:C:1251:TYR:H	1.69	1.06
3:G:411:LYS:H	3:G:411:LYS:HD2	1.15	1.06
2:F:49:ARG:NH1	2:F:103:HIS:HB2	1.70	1.05
4:D:306:GLY:HA2	4:D:317:THR:HG23	1.35	1.05
1:E:50:LYS:H	1:E:50:LYS:HD2	1.14	1.05
1:A:355:ARG:HB2	1:A:355:ARG:NH1	1.71	1.04
3:G:1250:HIS:CG	3:G:1251:TYR:H	1.68	1.04
4:D:397:PRO:HB2	4:D:400:ASP:OD1	1.55	1.04
4:H:202:LEU:HD21	4:H:438:PRO:HA	1.39	1.04
3:C:876:PHE:HA	3:C:881:ARG:HH12	1.14	1.04
3:C:789:GLU:O	3:C:793:LEU:HG	1.58	1.03
1:A:403:ASP:HA	1:A:406:ARG:NH1	1.72	1.03
2:B:443:HIS:CE1	2:B:445:ASN:H	1.77	1.03
4:H:202:LEU:HD22	4:H:457:SER:HB3	1.40	1.03
3:C:498:TRP:CZ2	3:C:535:PRO:HD3	1.93	1.02
3:G:468:LEU:HD23	3:G:476:VAL:HG11	1.41	1.02
3:G:1308:TYR:HD2	3:G:1309:ARG:HG2	1.23	1.02
1:A:355:ARG:HB2	1:A:355:ARG:HH11	0.87	1.02
2:F:33:PRO:HD3	2:F:104:PHE:HD2	1.22	1.02
4:D:202:LEU:HD22	4:D:457:SER:HB3	1.42	1.02
3:C:875:CYS:HB3	3:C:878:THR:HG23	1.39	1.01
3:C:1141:LYS:NZ	3:C:1147:PRO:HD3	1.74	1.01
2:B:286:PRO:HG2	2:B:386:PHE:CE2	1.95	1.01
2:B:362:TYR:O	2:B:364:PRO:HD3	1.59	1.01
3:G:630:ASP:HA	3:G:688:ARG:HH22	1.25	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:739:LEU:HD13	3:G:742:LEU:HD12	1.42	1.01
3:G:1337:PHE:CD2	3:G:1391:GLN:HG2	1.95	1.01
3:C:543:SER:H	3:C:749:ALA:HB2	1.24	1.01
3:C:724:PRO:HB2	3:C:726:GLU:HG3	1.41	1.01
3:C:935:ASN:ND2	3:C:937:ASP:H	1.55	1.01
4:H:362:ASP:O	4:H:366:VAL:HG23	1.58	1.01
4:D:308:ASN:ND2	4:D:311:GLY:HA2	1.75	1.01
3:G:953:ALA:O	3:G:956:MET:HB2	1.60	1.01
3:G:1300:GLY:H	3:G:1303:MET:HE3	1.24	1.00
3:G:935:ASN:HD21	3:G:937:ASP:HB2	1.22	1.00
3:G:568:PHE:CE1	3:G:575:PRO:HD2	1.97	1.00
3:G:1216:ILE:O	3:G:1219:VAL:HG23	1.62	1.00
3:G:1296:PHE:HZ	3:G:1405:LEU:HD21	1.24	1.00
3:C:563:LEU:HD21	3:C:746:TRP:HE1	1.15	1.00
3:C:664:ARG:HG3	3:C:688:ARG:HE	1.26	1.00
3:G:543:SER:H	3:G:749:ALA:HB2	1.23	1.00
4:H:366:VAL:HG21	4:H:598:ILE:HD11	1.43	1.00
2:F:293:LYS:HE2	2:F:297:GLU:HG3	1.40	0.99
3:G:845:LEU:HD12	3:G:1001:GLY:HA3	1.42	0.99
1:E:145:ALA:HB2	1:E:211:PHE:HE2	1.27	0.99
2:B:93:TYR:CD2	2:B:96:ARG:HB2	1.96	0.99
3:G:650:ARG:HA	3:G:650:ARG:NH1	1.77	0.99
2:F:358:LYS:HD3	3:G:1274:ARG:HH22	1.25	0.99
3:C:1048:LEU:HD23	3:C:1050:LEU:HD21	1.45	0.98
4:D:194:LYS:HG3	4:D:463:SER:HB3	1.42	0.98
2:F:358:LYS:HG2	2:F:359:ARG:N	1.77	0.98
1:A:64:SER:O	1:A:67:GLU:HG3	1.63	0.98
3:G:1276:CYS:SG	3:G:1390:THR:HG22	2.03	0.98
3:C:498:TRP:HZ2	3:C:535:PRO:HD3	1.23	0.98
3:C:1047:LEU:HG	3:C:1049:LEU:CD2	1.92	0.98
2:F:426:LYS:HA	2:F:429:GLU:OE1	1.62	0.98
3:C:1036:LEU:HD12	3:C:1037:GLU:H	1.29	0.97
2:B:47:ILE:HD11	3:C:1266:GLN:HB3	1.44	0.97
1:A:144:ARG:HH11	1:A:211:PHE:HD2	1.03	0.97
3:G:848:LYS:HZ3	3:G:997:GLU:HG3	1.17	0.97
1:A:255:LEU:HD11	1:A:272:LEU:HD13	1.47	0.97
3:G:1441:LEU:HD23	3:G:1441:LEU:H	1.30	0.97
1:A:237:LYS:O	1:A:241:ASP:HB2	1.64	0.97
4:H:246:PRO:HB3	4:H:309:THR:O	1.65	0.97
4:H:503:LEU:HD22	4:H:534:THR:HG23	1.47	0.96
3:C:553:HIS:HB2	4:D:307:ILE:HD12	1.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1307:LEU:HD13	3:C:1430:TYR:OH	1.66	0.96
2:F:209:VAL:HG12	2:F:210:PRO:HD2	1.44	0.96
1:A:323:VAL:HG21	1:A:350:ILE:HD12	1.43	0.96
3:G:623:LEU:HD11	3:G:651:ILE:HD11	1.45	0.96
3:G:875:CYS:SG	3:G:876:PHE:N	2.38	0.96
2:B:49:ARG:HB2	2:B:102:SER:HB2	1.48	0.96
4:D:476:LEU:HD11	4:D:502:ILE:CD1	1.96	0.96
1:A:294:TRP:O	1:A:298:LEU:HG	1.66	0.95
4:D:358:ASP:HB2	4:D:359:PRO:HD3	1.44	0.95
2:B:336:MET:HG2	2:B:337:ASP:H	1.29	0.95
3:C:1279:PHE:HB2	3:C:1395:TYR:CE1	1.99	0.95
2:F:362:TYR:O	2:F:364:PRO:HD3	1.66	0.95
3:C:1348:CYS:SG	3:C:1353:CYS:HB3	2.06	0.95
3:C:1395:TYR:HD1	3:C:1398:ILE:HD11	1.31	0.95
4:D:257:ILE:HG22	4:D:258:GLY:H	1.30	0.95
2:F:49:ARG:HB2	2:F:102:SER:HB2	1.45	0.95
1:A:140:ARG:O	1:A:144:ARG:HB2	1.65	0.95
3:C:364:LYS:HZ2	3:C:537:LEU:HD23	1.30	0.95
2:B:358:LYS:CE	3:C:1274:ARG:HH22	1.80	0.94
3:C:935:ASN:C	3:C:935:ASN:HD22	1.70	0.94
4:H:382:LEU:HD11	4:H:389:VAL:HG21	1.49	0.94
3:C:864:LEU:HD23	3:C:1004:ASP:HB3	1.49	0.94
3:G:555:ASN:HD22	3:G:555:ASN:H	1.03	0.94
3:G:1364:PHE:HB2	4:H:217:ARG:HE	1.32	0.94
3:C:500:GLU:OE2	3:C:502:LYS:HE3	1.65	0.94
3:G:1146:TYR:CD2	3:G:1155:VAL:HG21	2.02	0.94
4:D:166:ASN:H	4:D:166:ASN:ND2	1.59	0.94
3:C:360:PHE:HD1	3:C:665:LEU:HD11	1.30	0.94
3:C:607:VAL:HG23	3:C:609:VAL:HG12	1.49	0.94
4:D:343:LEU:HD11	4:D:571:PHE:HD1	1.33	0.94
3:G:1046:SER:HB2	3:G:1058:LEU:HG	1.48	0.94
3:C:635:VAL:HG23	3:C:752:ILE:HG22	1.50	0.94
4:H:343:LEU:HD12	4:H:344:VAL:H	1.33	0.94
3:G:732:TYR:HA	3:G:738:LEU:HD13	1.50	0.94
3:G:1019:PHE:CE1	3:G:1040:ILE:HG21	2.03	0.94
3:C:1307:LEU:HD22	3:C:1430:TYR:CE2	2.02	0.94
2:F:170:SER:HB3	2:F:171:PRO:HD2	1.50	0.94
1:A:355:ARG:HH11	1:A:355:ARG:CB	1.79	0.93
3:G:695:ILE:HD13	3:G:781:MET:O	1.67	0.93
2:F:439:PHE:CE2	2:F:450:GLU:HG2	2.03	0.93
3:G:1139:LEU:H	3:G:1139:LEU:CD1	1.81	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:843:LEU:N	3:C:981:ARG:HG2	1.83	0.93
3:G:935:ASN:ND2	3:G:937:ASP:H	1.65	0.93
3:G:498:TRP:HZ2	3:G:535:PRO:HD3	1.34	0.93
3:G:585:VAL:HG22	3:G:618:LEU:HD12	1.49	0.93
3:C:1409:THR:HG23	3:C:1410:THR:H	1.32	0.93
3:C:919:VAL:O	3:C:923:LYS:HG3	1.69	0.92
3:C:1095:VAL:CG1	3:C:1112:ILE:HD13	1.99	0.92
3:C:1312:ASN:HD22	3:C:1315:CYS:HB2	1.34	0.92
1:A:37:LYS:HG3	1:A:38:ASN:H	1.32	0.92
4:D:366:VAL:HG21	4:D:598:ILE:HD11	1.52	0.92
4:H:389:VAL:HG13	4:H:398:PHE:HE1	1.32	0.92
2:B:443:HIS:CE1	2:B:445:ASN:HB2	2.05	0.92
3:C:1047:LEU:HG	3:C:1049:LEU:HD22	1.50	0.92
3:G:1095:VAL:HG13	3:G:1112:ILE:CD1	1.99	0.92
2:B:280:SER:HA	2:B:284:PHE:CD1	2.05	0.92
1:A:68:LYS:HE3	1:A:72:LYS:HZ2	1.34	0.92
4:D:194:LYS:HE3	4:D:463:SER:OG	1.69	0.92
3:G:806:LYS:HE2	3:G:807:GLN:N	1.84	0.91
3:C:555:ASN:HD22	3:C:555:ASN:H	1.19	0.91
3:C:595:PRO:HG3	3:C:732:TYR:O	1.71	0.91
3:C:723:ILE:H	3:C:723:ILE:HD12	1.31	0.91
4:D:257:ILE:HG22	4:D:258:GLY:N	1.83	0.91
3:G:539:VAL:HG21	3:G:568:PHE:CD2	2.05	0.91
4:H:446:SER:O	4:H:450:LYS:HG3	1.70	0.91
3:C:720:ARG:HH11	3:C:722:VAL:HG22	1.35	0.91
3:C:365:VAL:HG22	3:C:376:CYS:HB2	1.52	0.91
1:E:349:THR:HG22	1:E:351:SER:H	1.36	0.91
3:G:1427:LEU:HD22	3:G:1431:ARG:NH1	1.86	0.91
3:C:1154:HIS:CE1	3:C:1155:VAL:HG23	2.06	0.90
4:D:538:LEU:HD12	4:D:539:ILE:N	1.85	0.90
2:F:336:MET:HG2	2:F:337:ASP:H	1.33	0.90
3:G:555:ASN:H	3:G:555:ASN:ND2	1.65	0.90
3:G:1036:LEU:HD12	3:G:1037:GLU:N	1.87	0.90
2:B:78:LEU:HD21	2:B:131:ARG:HH22	1.34	0.90
3:G:956:MET:O	3:G:959:CYS:HB3	1.72	0.90
2:B:258:THR:OG1	2:B:261:ASP:N	2.04	0.90
3:C:935:ASN:HD22	3:C:937:ASP:H	1.15	0.90
2:F:42:PHE:CD1	2:F:105:ILE:HD11	2.06	0.90
3:C:1095:VAL:HG12	3:C:1112:ILE:HD13	1.51	0.90
3:C:1206:ILE:HD13	3:C:1207:ASP:N	1.87	0.90
3:G:1241:LEU:C	3:G:1243:PRO:HD2	1.91	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:881:ARG:HD3	3:C:972:LEU:HD21	1.54	0.90
4:D:362:ASP:O	4:D:366:VAL:HG23	1.71	0.90
2:B:336:MET:HG2	2:B:337:ASP:N	1.87	0.89
3:C:1241:LEU:C	3:C:1243:PRO:HD2	1.92	0.89
3:G:595:PRO:HG3	3:G:732:TYR:O	1.72	0.89
2:F:39:LEU:HD11	2:F:245:ARG:HD2	1.51	0.89
4:D:342:VAL:HG13	4:D:374:VAL:HB	1.54	0.89
2:F:78:LEU:HD21	2:F:131:ARG:HH22	1.38	0.89
2:B:394:LEU:HD11	2:B:398:LEU:HD21	1.53	0.89
4:H:567:VAL:HG12	4:H:568:GLY:H	1.37	0.89
1:A:229:VAL:HG23	1:A:266:LEU:HD21	1.51	0.89
3:C:1230:ILE:HA	3:C:1234:LEU:HD23	1.55	0.89
4:D:447:ARG:CZ	4:D:447:ARG:HA	2.02	0.89
3:C:628:LYS:HG2	3:G:933:ASP:HB3	1.54	0.89
3:G:843:LEU:HD11	3:G:845:LEU:CD2	2.03	0.89
2:B:367:CYS:SG	2:B:444:PRO:HD3	2.12	0.89
3:C:410:MET:SD	3:C:434:PRO:HB3	2.13	0.89
2:F:75:GLU:HB3	2:F:130:PHE:HZ	1.38	0.89
1:A:330:ILE:HG12	1:A:348:PRO:O	1.71	0.89
2:B:439:PHE:HE1	2:B:441:LEU:HD13	1.37	0.89
4:D:246:PRO:HB3	4:D:309:THR:O	1.73	0.89
1:E:48:THR:HG21	1:E:77:LYS:HD2	1.55	0.89
2:F:33:PRO:HD3	2:F:104:PHE:CD2	2.07	0.88
3:G:1230:ILE:HD12	3:G:1238:TRP:HH2	1.34	0.88
1:E:241:ASP:HA	1:E:244:LEU:HD12	1.56	0.88
2:F:50:VAL:HG23	2:F:106:LEU:HD11	1.55	0.88
4:H:522:TYR:H	4:H:522:TYR:HD2	1.21	0.88
2:B:52:LEU:HD21	2:B:127:LEU:HD21	1.56	0.88
4:D:156:THR:N	4:D:157:PRO:HD2	1.87	0.88
3:C:1104:SER:O	3:C:1108:ILE:HG13	1.73	0.88
1:E:237:LYS:O	1:E:241:ASP:HB2	1.72	0.88
1:A:55:ILE:HG13	1:A:58:GLN:NE2	1.88	0.88
2:B:443:HIS:CE1	2:B:445:ASN:N	2.41	0.88
3:C:869:ILE:HG21	3:C:911:LEU:HD21	1.54	0.88
1:E:262:SER:HB2	1:E:268:ARG:HE	1.39	0.88
3:G:848:LYS:HD2	3:G:999:ILE:HA	1.56	0.88
4:D:355:ILE:HD11	4:D:388:GLN:HE22	1.38	0.88
1:E:69:GLU:O	1:E:73:MET:HG2	1.74	0.88
2:F:280:SER:HA	2:F:284:PHE:CD1	2.09	0.88
4:H:221:THR:O	4:H:225:GLU:HG3	1.73	0.88
3:C:484:LEU:O	3:C:488:LEU:HD23	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:857:LEU:CD2	3:C:859:LEU:HG	2.03	0.88
4:D:193:LEU:HD11	4:D:462:LEU:HD21	1.54	0.88
2:F:262:TYR:HD1	2:F:263:SER:N	1.72	0.88
3:G:413:VAL:HA	3:G:472:THR:OG1	1.74	0.88
3:G:843:LEU:N	3:G:981:ARG:HG2	1.88	0.88
2:B:167:VAL:HG13	2:B:173:LEU:HD21	1.56	0.87
1:A:137:MET:SD	1:A:301:CYS:HB3	2.14	0.87
3:C:1250:HIS:CG	3:C:1251:TYR:N	2.42	0.87
4:D:401:ILE:O	4:D:404:GLN:HB3	1.72	0.87
1:E:221:LYS:HB2	1:E:221:LYS:NZ	1.88	0.87
3:G:1139:LEU:HD12	3:G:1139:LEU:N	1.87	0.87
4:H:387:GLU:HG3	4:H:388:GLN:H	1.40	0.87
3:C:1322:PHE:HB3	3:C:1325:GLN:OE1	1.75	0.87
3:G:622:PHE:HE2	3:G:647:LEU:HD21	1.39	0.87
3:G:1081:ARG:HG2	3:G:1081:ARG:HH11	1.38	0.87
2:B:47:ILE:CD1	3:C:1266:GLN:HB3	2.03	0.87
4:H:156:THR:N	4:H:157:PRO:HD2	1.87	0.87
2:F:356:GLU:HB2	3:G:1247:ARG:HD3	1.56	0.87
3:C:1093:ASN:O	3:C:1096:ILE:HG22	1.75	0.87
2:B:170:SER:HB3	2:B:171:PRO:HD2	1.57	0.87
1:A:82:ALA:HB2	1:A:104:LYS:HB2	1.57	0.86
3:C:731:MET:HE1	3:C:741:LEU:HD13	1.57	0.86
3:C:1400:ASP:HB2	3:C:1434:LYS:HD3	1.57	0.86
3:G:1085:CYS:SG	3:G:1132:GLN:O	2.32	0.86
4:H:503:LEU:CD2	4:H:534:THR:HG23	2.04	0.86
4:D:360:LEU:CD1	4:D:409:ILE:HD11	2.05	0.86
1:A:234:LEU:HD21	1:A:243:ILE:HD12	1.53	0.86
3:C:664:ARG:HG3	3:C:688:ARG:NE	1.89	0.86
1:E:181:VAL:HG22	2:F:192:LEU:HD22	1.57	0.86
2:F:23:PRO:C	2:F:25:CYS:H	1.76	0.86
1:A:207:LYS:NZ	2:B:172:SER:HA	1.90	0.86
3:C:851:PHE:CD1	3:C:1048:LEU:HD12	2.09	0.86
3:C:990:MET:HG2	3:C:994:MET:CE	2.05	0.86
3:G:1340:LYS:HB2	3:G:1340:LYS:NZ	1.91	0.86
3:G:568:PHE:HE1	3:G:575:PRO:HD2	1.39	0.86
3:G:623:LEU:HD22	3:G:661:LYS:HB2	1.55	0.86
3:G:652:ASN:HB2	3:G:670:MET:HE3	1.57	0.86
2:B:265:GLN:HB2	2:B:362:TYR:CE2	2.10	0.86
2:F:164:GLN:HE22	2:F:176:LEU:HD11	1.39	0.86
3:G:1095:VAL:HG13	3:G:1112:ILE:HD13	1.55	0.86
3:G:1230:ILE:HA	3:G:1234:LEU:HD23	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1308:TYR:CD2	3:G:1309:ARG:HG2	2.11	0.86
1:E:38:ASN:HA	1:E:41:GLN:OE1	1.76	0.86
4:H:354:SER:OG	4:H:356:THR:HG23	1.75	0.86
4:D:567:VAL:HG12	4:D:568:GLY:H	1.40	0.86
1:E:37:LYS:HG3	1:E:38:ASN:H	1.40	0.86
3:G:1360:LEU:HD22	4:H:216:ILE:HG22	1.57	0.86
2:B:358:LYS:HG2	2:B:359:ARG:N	1.91	0.86
3:G:636:GLY:HA3	3:G:639:ILE:HD11	1.57	0.86
3:G:1340:LYS:HB2	3:G:1340:LYS:HZ3	1.41	0.86
3:G:1358:ARG:HH21	4:H:513:PRO:HB2	1.40	0.86
1:E:145:ALA:HB2	1:E:211:PHE:CE2	2.10	0.86
3:G:565:HIS:HA	3:G:580:GLN:OE1	1.74	0.86
4:H:310:THR:HB	4:H:312:ARG:HG2	1.57	0.86
3:C:691:CYS:HA	3:C:780:LEU:HD22	1.56	0.85
3:C:1036:LEU:HD12	3:C:1037:GLU:N	1.90	0.85
3:G:602:ILE:HD13	3:G:609:VAL:HG13	1.56	0.85
3:C:1392:LEU:HB3	3:C:1441:LEU:HD21	1.55	0.85
3:G:876:PHE:CZ	3:G:960:LEU:HD21	2.10	0.85
2:B:23:PRO:C	2:B:25:CYS:H	1.78	0.85
3:C:857:LEU:HD21	3:C:859:LEU:HG	1.58	0.85
2:F:258:THR:OG1	2:F:261:ASP:HB2	1.75	0.85
4:H:318:LYS:HE3	4:H:320:TYR:CE2	2.11	0.85
4:H:389:VAL:HG22	4:H:394:LEU:HD11	1.58	0.85
1:E:277:SER:HA	1:E:280:GLN:HG3	1.58	0.85
3:G:1371:CYS:HA	3:G:1379:LEU:HD21	1.58	0.85
3:C:701:ILE:HD11	3:C:714:GLN:HE21	1.39	0.85
3:C:935:ASN:HD21	3:C:937:ASP:CB	1.89	0.85
4:H:341:MET:HE2	4:H:573:ARG:HD2	1.57	0.85
3:C:1371:CYS:HA	3:C:1379:LEU:HD21	1.58	0.85
4:D:387:GLU:HG3	4:D:388:GLN:H	1.42	0.85
2:B:358:LYS:HG2	2:B:359:ARG:H	1.42	0.85
3:C:364:LYS:NZ	3:C:537:LEU:HD23	1.91	0.85
3:C:876:PHE:HA	3:C:881:ARG:NH1	1.91	0.85
1:A:131:CYS:HA	1:A:226:TYR:CE1	2.10	0.85
3:C:553:HIS:CB	4:D:307:ILE:HD12	2.06	0.85
4:D:343:LEU:HG	4:D:344:VAL:N	1.90	0.85
4:D:389:VAL:HG13	4:D:398:PHE:HE1	1.38	0.85
2:B:286:PRO:HG2	2:B:386:PHE:HE2	1.39	0.85
3:G:843:LEU:HD12	3:G:844:VAL:N	1.92	0.85
2:B:159:LYS:HE3	2:B:178:LEU:HD23	1.58	0.84
3:G:570:LEU:HD13	3:G:766:LEU:HD22	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1250:HIS:CG	3:G:1251:TYR:N	2.43	0.84
3:G:563:LEU:HD21	3:G:746:TRP:NE1	1.92	0.84
3:G:1395:TYR:HA	3:G:1398:ILE:HD11	1.57	0.84
1:A:68:LYS:HE3	1:A:72:LYS:NZ	1.92	0.84
3:C:851:PHE:HD1	3:C:1048:LEU:HD12	1.42	0.84
4:D:360:LEU:HD11	4:D:409:ILE:CD1	2.07	0.84
1:E:353:ILE:HB	1:E:386:THR:HG21	1.56	0.84
3:G:498:TRP:CZ2	3:G:535:PRO:HD3	2.12	0.84
3:G:1188:ALA:HA	3:G:1191:ARG:NE	1.90	0.84
1:A:144:ARG:NH1	1:A:211:PHE:HD2	1.74	0.84
3:C:650:ARG:NH1	3:C:650:ARG:HA	1.92	0.84
4:D:399:GLU:HG3	4:D:403:LYS:HE2	1.58	0.84
2:F:385:PRO:HG2	2:F:386:PHE:H	1.42	0.84
3:G:1158:ALA:HA	3:G:1161:ILE:HD12	1.60	0.84
1:A:106:LEU:HB3	1:A:169:VAL:HB	1.58	0.84
3:C:344:TYR:HA	3:C:497:CYS:O	1.77	0.84
2:F:265:GLN:HG2	2:F:266:GLY:H	1.43	0.84
2:F:319:THR:HG23	2:F:322:GLN:OE1	1.78	0.84
4:H:474:THR:HG21	4:H:518:MET:CE	2.07	0.84
4:H:255:GLY:C	4:H:272:LEU:HD11	1.97	0.84
1:A:135:MET:SD	1:A:164:GLY:HA2	2.18	0.84
2:F:300:HIS:HA	2:F:331:PHE:HE1	1.42	0.84
4:H:358:ASP:HB2	4:H:359:PRO:HD3	1.60	0.84
4:H:360:LEU:HD11	4:H:409:ILE:CD1	2.07	0.84
4:D:257:ILE:CG2	4:D:258:GLY:H	1.89	0.84
4:D:540:ILE:HD12	4:D:540:ILE:H	1.40	0.84
3:G:1230:ILE:HD12	3:G:1238:TRP:CH2	2.12	0.84
2:F:121:ILE:HG12	2:F:226:LEU:HD23	1.60	0.84
4:H:243:LEU:HB3	4:H:284:ILE:HD13	1.59	0.84
3:C:555:ASN:HD21	4:D:248:GLN:NE2	1.76	0.84
2:F:104:PHE:HE1	2:F:107:ARG:CZ	1.90	0.84
2:F:358:LYS:HG2	2:F:359:ARG:H	1.43	0.84
2:F:441:LEU:HD12	2:F:446:GLN:CD	1.99	0.83
3:G:1222:ARG:HG2	3:G:1223:ILE:HD12	1.59	0.83
3:C:1251:TYR:HD1	3:C:1254:ASP:H	1.27	0.83
4:D:170:VAL:HG11	4:D:594:GLN:NE2	1.93	0.83
4:D:445:LEU:HD13	4:D:450:LYS:HZ3	1.43	0.83
3:G:1074:LEU:HB3	3:G:1077:LEU:HD12	1.56	0.83
3:G:1133:PHE:HB3	3:G:1211:TYR:OH	1.78	0.83
1:A:43:ARG:NH1	1:A:80:ILE:HG22	1.92	0.83
4:H:357:TYR:O	4:H:360:LEU:HB3	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:360:PHE:CD1	3:C:665:LEU:HD11	2.11	0.83
3:C:589:PRO:HG3	3:C:592:CYS:SG	2.19	0.83
4:H:401:ILE:O	4:H:404:GLN:HB3	1.77	0.83
4:H:540:ILE:HD12	4:H:540:ILE:N	1.94	0.83
2:B:443:HIS:HE1	2:B:445:ASN:HB2	1.42	0.83
3:G:589:PRO:HG3	3:G:592:CYS:SG	2.18	0.83
3:G:732:TYR:HA	3:G:738:LEU:CD1	2.07	0.83
4:H:296:LEU:HA	4:H:300:GLN:OE1	1.78	0.83
3:C:641:GLY:O	3:C:642:PHE:HB2	1.78	0.83
3:C:1347:ILE:HD11	3:C:1354:ARG:HG3	1.59	0.83
3:G:1154:HIS:CE1	3:G:1155:VAL:HG23	2.14	0.83
4:H:420:LEU:HB2	4:H:453:VAL:HG22	1.59	0.83
2:B:265:GLN:HG2	2:B:266:GLY:H	1.43	0.83
3:C:731:MET:HG2	3:C:737:GLN:HB3	1.60	0.83
3:C:497:CYS:SG	3:C:499:LEU:HD21	2.19	0.83
1:E:68:LYS:HE3	1:E:72:LYS:HZ3	1.40	0.83
2:F:270:LYS:HE3	2:F:270:LYS:HA	1.61	0.83
3:G:389:PHE:HB2	3:G:453:LEU:HB3	1.58	0.83
1:E:227:ALA:HB1	1:E:233:ILE:HD13	1.60	0.83
2:F:32:PRO:HA	2:F:104:PHE:CE2	2.14	0.83
1:A:131:CYS:HA	1:A:226:TYR:HE1	1.41	0.82
3:C:689:MET:SD	3:C:776:MET:HG2	2.17	0.82
3:G:858:LEU:HD13	3:G:1007:MET:CG	2.05	0.82
3:C:364:LYS:HZ3	3:C:538:VAL:HG23	1.44	0.82
4:D:460:CYS:SG	4:D:461:SER:N	2.52	0.82
3:G:650:ARG:HH11	3:G:650:ARG:CA	1.88	0.82
4:H:460:CYS:SG	4:H:461:SER:N	2.52	0.82
3:C:695:ILE:HG21	3:C:781:MET:O	1.79	0.82
3:C:865:TYR:H	3:C:865:TYR:HD2	1.24	0.82
3:C:1098:GLN:O	3:C:1101:SER:HB3	1.79	0.82
3:C:1400:ASP:CB	3:C:1434:LYS:HD3	2.09	0.82
4:D:378:PHE:CD2	4:D:541:PRO:HG2	2.13	0.82
3:G:932:GLN:NE2	3:G:933:ASP:H	1.76	0.82
3:G:1076:GLY:C	3:G:1077:LEU:HD23	2.00	0.82
1:A:49:LEU:HB3	1:A:50:LYS:HZ1	1.44	0.82
3:C:612:ALA:HB1	3:C:617:THR:HB	1.60	0.82
4:D:227:LEU:HD23	4:D:301:VAL:HB	1.61	0.82
4:H:470:GLY:O	4:H:471:LEU:HD23	1.79	0.82
3:C:413:VAL:HA	3:C:472:THR:OG1	1.78	0.82
3:G:1116:LEU:HA	3:G:1119:ILE:HG13	1.60	0.82
4:H:257:ILE:HG22	4:H:258:GLY:H	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:361:LEU:HA	4:H:364:ILE:HD12	1.60	0.82
3:C:543:SER:N	3:C:749:ALA:HB2	1.95	0.82
2:F:427:TYR:O	2:F:431:ILE:HG22	1.78	0.82
4:H:258:GLY:O	4:H:271:ILE:HG23	1.79	0.82
2:B:387:ARG:HA	2:B:420:TYR:CE1	2.14	0.82
3:G:1441:LEU:HD23	3:G:1441:LEU:N	1.91	0.82
4:H:385:LYS:HA	4:H:390:GLU:OE1	1.79	0.82
3:G:507:LEU:HD12	3:G:507:LEU:H	1.45	0.82
3:G:543:SER:N	3:G:749:ALA:HB2	1.94	0.82
3:G:935:ASN:HD22	3:G:935:ASN:C	1.82	0.82
3:C:843:LEU:HD11	3:C:845:LEU:CD2	2.10	0.82
3:C:563:LEU:HD13	3:C:579:PHE:CD2	2.14	0.81
4:D:346:CYS:HB2	4:D:378:PHE:HB2	1.60	0.81
1:E:140:ARG:O	1:E:144:ARG:HB2	1.79	0.81
2:F:209:VAL:CG1	2:F:210:PRO:HD2	2.09	0.81
3:G:1334:ILE:HG21	3:G:1440:PHE:CE1	2.15	0.81
4:D:343:LEU:HG	4:D:344:VAL:H	1.45	0.81
3:C:968:TYR:OH	3:C:970:LYS:HD3	1.79	0.81
3:G:1074:LEU:HB3	3:G:1077:LEU:CD1	2.11	0.81
4:D:227:LEU:HD23	4:D:301:VAL:CG1	2.10	0.81
3:G:522:LYS:O	3:G:525:LEU:HG	1.79	0.81
3:C:650:ARG:HA	3:C:650:ARG:HH11	1.46	0.81
3:C:1149:LYS:HG2	3:C:1150:LYS:N	1.94	0.81
2:F:23:PRO:HD2	2:F:25:CYS:SG	2.21	0.81
3:G:543:SER:HB2	3:G:749:ALA:HB2	1.60	0.81
3:G:629:ILE:HG22	3:G:631:PRO:HD3	1.59	0.81
4:D:193:LEU:HD13	4:D:462:LEU:HD11	1.63	0.81
1:E:26:TYR:OH	1:E:80:ILE:HD11	1.80	0.81
3:C:563:LEU:CD2	3:C:746:TRP:HE1	1.94	0.81
3:C:691:CYS:HA	3:C:780:LEU:CD2	2.11	0.81
2:F:320:LEU:HA	2:F:353:PHE:CE1	2.16	0.81
4:H:182:TRP:CE3	4:H:573:ARG:HD2	2.16	0.81
4:H:257:ILE:HD11	4:H:302:VAL:HG11	1.62	0.81
1:A:247:VAL:HG13	1:A:248:PRO:HD2	1.63	0.81
3:C:1401:ALA:HB2	3:C:1430:TYR:HD1	1.46	0.81
4:D:227:LEU:CD1	4:D:231:LEU:HG	2.11	0.81
4:D:495:PHE:HA	4:D:498:ILE:HG13	1.63	0.81
1:E:234:LEU:HD21	1:E:243:ILE:HD12	1.62	0.81
3:C:1185:ASN:HD22	3:C:1185:ASN:C	1.85	0.80
3:C:1304:GLU:OE1	3:C:1309:ARG:HD2	1.81	0.80
3:G:364:LYS:HE3	3:G:632:ASP:OD2	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:271:ILE:HD12	4:H:272:LEU:N	1.95	0.80
2:B:94:GLU:HG3	2:B:95:PRO:HD3	1.61	0.80
4:H:337:PHE:HB3	4:H:465:ASN:ND2	1.96	0.80
3:C:636:GLY:HA3	3:C:639:ILE:HD11	1.61	0.80
3:C:1417:LEU:HG	3:C:1421:PHE:HD2	1.46	0.80
4:D:346:CYS:CB	4:D:378:PHE:HB2	2.10	0.80
1:E:247:VAL:HG22	1:E:292:LEU:HD13	1.63	0.80
1:E:393:LYS:HA	1:E:393:LYS:HE3	1.61	0.80
3:G:363:GLY:O	3:G:364:LYS:HG3	1.81	0.80
3:G:1098:GLN:O	3:G:1101:SER:HB3	1.81	0.80
4:D:571:PHE:CZ	4:D:598:ILE:HD13	2.17	0.80
3:G:630:ASP:HA	3:G:688:ARG:NH2	1.97	0.80
3:G:1116:LEU:HA	3:G:1119:ILE:CG1	2.11	0.80
4:H:337:PHE:HB3	4:H:465:ASN:HD21	1.42	0.80
2:B:173:LEU:O	2:B:173:LEU:HD23	1.82	0.80
3:C:977:THR:HB	3:C:981:ARG:HH12	1.44	0.80
4:D:343:LEU:HD11	4:D:571:PHE:CD1	2.16	0.80
4:H:567:VAL:HG12	4:H:568:GLY:N	1.97	0.80
2:B:41:GLU:O	2:B:45:LEU:HG	1.81	0.80
2:B:47:ILE:HD13	2:B:260:GLN:HE22	1.46	0.80
2:F:286:PRO:HG2	2:F:386:PHE:CE2	2.16	0.80
3:C:935:ASN:ND2	3:C:937:ASP:N	2.29	0.80
3:C:1276:CYS:SG	3:C:1390:THR:HG22	2.22	0.80
4:D:292:LYS:HG2	4:D:293:GLU:H	1.46	0.80
4:D:464:ILE:O	4:D:467:VAL:HB	1.82	0.80
3:G:875:CYS:HB3	3:G:878:THR:HG23	1.60	0.80
2:F:255:HIS:CG	2:F:256:SER:H	2.00	0.80
3:G:682:ARG:HD3	3:G:683:ASN:HD22	1.45	0.80
3:G:704:LYS:HE2	3:G:704:LYS:N	1.95	0.80
3:G:1307:LEU:HD22	3:G:1430:TYR:CE2	2.16	0.80
4:H:246:PRO:HG3	4:H:311:GLY:HA3	1.63	0.80
3:C:1245:GLN:O	3:C:1248:VAL:HB	1.81	0.80
3:G:1087:LEU:HD12	3:G:1087:LEU:O	1.81	0.80
4:H:365:ALA:HA	4:H:368:ASN:HD22	1.46	0.80
3:C:767:GLN:O	3:C:771:ILE:HG13	1.82	0.80
3:C:1216:ILE:HD12	3:C:1216:ILE:H	1.47	0.80
4:H:445:LEU:HB2	4:H:450:LYS:HZ3	1.45	0.80
2:B:367:CYS:SG	2:B:443:HIS:HA	2.21	0.79
3:C:599:LYS:O	3:C:603:GLU:HG2	1.82	0.79
3:C:715:ILE:HD13	3:C:759:LEU:HD21	1.64	0.79
1:E:67:GLU:O	1:E:71:GLN:HG3	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:39:LEU:HD11	2:F:245:ARG:CD	2.11	0.79
1:A:69:GLU:O	1:A:73:MET:HG2	1.82	0.79
1:A:113:THR:HG23	1:A:163:ARG:NE	1.97	0.79
4:D:227:LEU:HD12	4:D:227:LEU:O	1.82	0.79
2:F:118:ARG:HB3	2:F:118:ARG:CZ	2.12	0.79
3:G:387:LEU:HD21	3:G:479:THR:HA	1.63	0.79
4:H:156:THR:H	4:H:157:PRO:HD2	1.46	0.79
3:C:539:VAL:O	3:C:564:VAL:HG13	1.82	0.79
4:D:156:THR:H	4:D:157:PRO:HD2	1.47	0.79
3:G:725:MET:HA	3:G:728:ILE:HD11	1.62	0.79
3:C:542:PHE:CD2	3:C:542:PHE:O	2.36	0.79
3:C:734:GLU:OE1	3:C:736:SER:HB2	1.81	0.79
3:C:1244:THR:HG22	3:C:1247:ARG:NH2	1.97	0.79
2:F:355:LYS:HG2	3:G:1247:ARG:NH2	1.98	0.79
4:D:382:LEU:HD11	4:D:389:VAL:HG21	1.63	0.79
3:G:784:ARG:H	3:G:784:ARG:HD2	1.46	0.79
3:G:1348:CYS:SG	3:G:1353:CYS:HB3	2.23	0.79
4:D:411:GLU:O	4:D:413:THR:N	2.16	0.79
4:D:570:THR:HG22	4:D:597:ARG:HA	1.62	0.79
2:F:313:LEU:HB3	2:F:318:LEU:HD12	1.65	0.79
2:F:358:LYS:HE2	3:G:1274:ARG:HH12	1.46	0.79
3:G:935:ASN:ND2	3:G:937:ASP:HB2	1.98	0.79
4:D:574:LEU:HD12	4:D:574:LEU:N	1.98	0.79
4:H:387:GLU:HG3	4:H:388:GLN:N	1.94	0.79
1:A:97:GLY:HA3	3:C:880:GLN:NE2	1.97	0.79
4:D:157:PRO:HB3	4:D:354:SER:HB3	1.65	0.79
1:E:139:ILE:HD11	1:E:334:ILE:HD12	1.65	0.79
4:H:176:LEU:O	4:H:178:GLN:NE2	2.16	0.79
3:G:641:GLY:O	3:G:642:PHE:HB2	1.81	0.79
3:G:1093:ASN:O	3:G:1096:ILE:HG22	1.82	0.79
4:D:426:LEU:HD11	4:D:518:MET:HE3	1.65	0.78
2:F:406:GLY:O	2:F:409:SER:HB3	1.83	0.78
3:G:562:ALA:O	3:G:563:LEU:HD23	1.82	0.78
2:B:445:ASN:O	2:B:448:PHE:HB3	1.82	0.78
4:D:243:LEU:O	4:D:284:ILE:HD13	1.83	0.78
3:G:631:PRO:N	3:G:688:ARG:HH12	1.80	0.78
3:C:843:LEU:HD12	3:C:844:VAL:N	1.98	0.78
1:E:87:ARG:HB3	1:E:89:ASN:HD21	1.48	0.78
3:G:631:PRO:O	3:G:688:ARG:NH1	2.16	0.78
3:G:701:ILE:HG13	3:G:703:CYS:SG	2.23	0.78
4:H:294:TYR:O	4:H:294:TYR:HD1	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:253:LEU:HG	4:H:314:LEU:HD22	1.66	0.78
4:H:360:LEU:O	4:H:363:LEU:HB3	1.84	0.78
2:B:358:LYS:HE2	3:C:1274:ARG:HH22	1.46	0.78
3:C:1439:GLN:O	3:C:1442:SER:HB2	1.83	0.78
4:H:164:ARG:HH11	4:H:164:ARG:HG2	1.49	0.78
4:H:538:LEU:CG	4:H:540:ILE:HD11	2.14	0.78
4:D:476:LEU:C	4:D:476:LEU:HD12	2.03	0.78
2:F:47:ILE:HG22	2:F:51:LYS:HE3	1.65	0.78
3:G:901:LEU:HD12	3:G:901:LEU:O	1.84	0.78
1:A:146:LEU:HB2	1:A:155:ARG:HD3	1.66	0.78
3:C:644:LEU:HD12	3:C:644:LEU:O	1.84	0.78
4:D:567:VAL:HG12	4:D:568:GLY:N	1.98	0.78
4:D:573:ARG:O	4:D:593:VAL:HG13	1.83	0.78
1:E:209:HIS:CE1	1:E:211:PHE:H	2.02	0.78
2:F:422:VAL:O	2:F:425:GLN:HB2	1.84	0.78
3:C:858:LEU:HD13	3:C:1007:MET:HG3	1.65	0.78
3:G:630:ASP:CA	3:G:688:ARG:HH22	1.96	0.78
3:G:704:LYS:HE2	3:G:704:LYS:H	1.49	0.78
4:H:538:LEU:HG	4:H:540:ILE:HD11	1.66	0.78
4:H:548:VAL:HG22	4:H:557:VAL:HG22	1.63	0.78
1:E:240:TRP:O	1:E:244:LEU:HG	1.82	0.78
2:F:262:TYR:CD1	2:F:263:SER:N	2.52	0.78
2:B:319:THR:HG23	2:B:322:GLN:OE1	1.84	0.78
3:C:682:ARG:HD3	3:C:683:ASN:HD22	1.49	0.78
3:C:701:ILE:HG12	3:C:703:CYS:SG	2.24	0.78
3:C:1146:TYR:CD2	3:C:1155:VAL:HG21	2.19	0.78
3:G:612:ALA:HB1	3:G:617:THR:HB	1.65	0.78
3:G:852:TYR:HD1	3:G:1009:ASN:HD22	1.32	0.78
4:H:243:LEU:HB3	4:H:284:ILE:CD1	2.14	0.78
4:H:376:ILE:O	4:H:377:LEU:HD23	1.84	0.78
4:H:522:TYR:CD2	4:H:522:TYR:N	2.50	0.78
1:A:5:ASP:HB3	1:A:8:GLU:OE2	1.84	0.77
1:A:112:MET:HB3	1:A:163:ARG:HD2	1.65	0.77
3:C:562:ALA:O	3:C:563:LEU:HD23	1.84	0.77
3:C:856:ILE:CG2	3:C:1007:MET:HG2	2.14	0.77
3:G:635:VAL:HG22	3:G:752:ILE:HG22	1.63	0.77
3:G:943:ASP:O	3:G:946:GLN:HB3	1.85	0.77
1:A:237:LYS:HA	1:A:240:TRP:CE2	2.20	0.77
2:B:118:ARG:HH11	2:B:118:ARG:HG3	1.47	0.77
3:C:389:PHE:HB2	3:C:453:LEU:HB3	1.67	0.77
3:C:1038:ILE:HG13	3:C:1039:ASP:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:220:LEU:O	4:D:224:ILE:HG13	1.85	0.77
4:D:361:LEU:HA	4:D:364:ILE:CD1	2.13	0.77
3:G:1129:PRO:HB2	3:G:1132:GLN:HG2	1.66	0.77
3:C:659:TRP:CG	3:C:660:SER:N	2.51	0.77
3:C:875:CYS:SG	3:C:876:PHE:N	2.56	0.77
4:D:499:LEU:O	4:D:503:LEU:HD12	1.83	0.77
1:E:25:GLN:HE21	1:E:396:GLU:HG3	1.48	0.77
4:H:399:GLU:O	4:H:403:LYS:HG2	1.85	0.77
1:A:393:LYS:HE2	1:A:397:HIS:CE1	2.19	0.77
3:C:872:PHE:CE2	3:C:979:LYS:HE2	2.18	0.77
3:C:1129:PRO:HB2	3:C:1132:GLN:HG2	1.65	0.77
4:D:166:ASN:HD22	4:D:166:ASN:H	0.81	0.77
4:D:254:LEU:HD12	4:D:255:GLY:N	2.00	0.77
2:F:445:ASN:O	2:F:448:PHE:HB3	1.85	0.77
3:G:411:LYS:HD2	3:G:411:LYS:N	1.97	0.77
3:G:803:VAL:HB	3:G:804:PRO:CD	2.14	0.77
3:G:1395:TYR:HD1	3:G:1398:ILE:HD11	1.50	0.77
2:B:276:ILE:HA	2:B:279:LEU:HD12	1.67	0.77
3:C:522:LYS:O	3:C:525:LEU:HG	1.84	0.77
3:C:1395:TYR:O	3:C:1398:ILE:HG13	1.83	0.77
2:F:111:CYS:HB2	2:F:233:THR:OG1	1.84	0.77
2:B:23:PRO:HD2	2:B:25:CYS:HB2	1.65	0.77
3:C:345:TRP:HH2	3:C:775:ILE:HG13	1.48	0.77
3:C:555:ASN:H	3:C:555:ASN:ND2	1.82	0.77
3:C:932:GLN:NE2	3:C:933:ASP:H	1.82	0.77
3:G:564:VAL:HG12	3:G:565:HIS:N	1.99	0.77
3:G:1335:ARG:HH21	4:H:433:PRO:HD3	1.48	0.77
4:H:292:LYS:HG2	4:H:293:GLU:N	2.00	0.77
3:C:789:GLU:HG2	3:C:793:LEU:HD11	1.66	0.77
3:C:1267:LEU:HD22	3:C:1271:GLU:HG3	1.65	0.77
1:E:46:SER:OG	1:E:79:ASP:HB2	1.84	0.77
3:C:1010:THR:O	3:C:1011:ASN:HB2	1.85	0.77
4:D:227:LEU:HD23	4:D:301:VAL:CB	2.14	0.77
1:E:93:THR:HG23	3:G:447:PRO:HB3	1.66	0.77
1:E:264:ASN:O	1:E:268:ARG:HD3	1.84	0.77
3:C:683:ASN:HD22	3:C:683:ASN:N	1.81	0.77
2:F:64:VAL:HG23	2:F:66:GLY:H	1.49	0.77
3:G:1046:SER:HB2	3:G:1058:LEU:CG	2.13	0.77
1:A:233:ILE:HG13	1:A:234:LEU:HG	1.66	0.77
3:C:864:LEU:HD23	3:C:1004:ASP:CB	2.15	0.77
3:C:954:ASN:HD22	3:C:954:ASN:H	1.29	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:806:LYS:HE2	3:G:807:GLN:H	1.45	0.77
3:G:806:LYS:HG2	3:G:966:ARG:HD2	1.66	0.77
3:G:1141:LYS:NZ	3:G:1147:PRO:HD3	2.00	0.77
4:D:300:GLN:O	4:D:302:VAL:HG12	1.84	0.76
2:F:42:PHE:CE1	2:F:105:ILE:HD11	2.19	0.76
2:F:387:ARG:NH1	3:G:995:ASN:HB3	2.00	0.76
3:G:1206:ILE:HD13	3:G:1207:ASP:N	2.00	0.76
4:H:346:CYS:CB	4:H:378:PHE:HB2	2.15	0.76
3:C:943:ASP:O	3:C:946:GLN:HB3	1.85	0.76
3:C:1244:THR:O	3:C:1247:ARG:HG3	1.84	0.76
3:G:437:LYS:HD3	3:G:800:ASN:ND2	1.99	0.76
2:F:443:HIS:CE1	2:F:445:ASN:H	2.04	0.76
4:H:157:PRO:HB3	4:H:354:SER:HB2	1.67	0.76
1:E:162:ARG:HG3	1:E:327:THR:HG21	1.67	0.76
3:G:547:MET:HG3	3:G:728:ILE:HD12	1.67	0.76
3:G:1427:LEU:CD2	3:G:1431:ARG:HH12	1.91	0.76
3:C:602:ILE:HD13	3:C:609:VAL:HG13	1.68	0.76
3:C:1235:ILE:H	3:C:1235:ILE:HD12	1.49	0.76
3:C:1395:TYR:CD1	3:C:1398:ILE:HD11	2.19	0.76
2:F:255:HIS:CD2	2:F:256:SER:H	2.03	0.76
3:G:610:GLU:HG2	3:G:621:PHE:CZ	2.20	0.76
4:H:411:GLU:O	4:H:413:THR:N	2.18	0.76
1:A:174:VAL:O	1:A:177:LEU:HG	1.85	0.76
1:E:50:LYS:HD2	1:E:50:LYS:N	1.96	0.76
1:E:192:VAL:HG21	1:E:304:ARG:HG2	1.68	0.76
3:C:1294:ASN:HD22	3:C:1296:PHE:H	1.34	0.76
4:D:357:TYR:O	4:D:360:LEU:HB3	1.85	0.76
1:E:234:LEU:CD2	1:E:243:ILE:HD12	2.15	0.76
3:G:362:PHE:HZ	3:G:665:LEU:HG	1.51	0.76
1:A:82:ALA:CB	1:A:104:LYS:HB2	2.15	0.76
3:C:857:LEU:HD21	3:C:859:LEU:CG	2.15	0.76
3:C:1427:LEU:HB3	3:C:1431:ARG:HH22	1.50	0.76
1:E:208:ILE:HD12	1:E:212:ILE:HG21	1.68	0.76
3:G:623:LEU:HD11	3:G:659:TRP:HA	1.68	0.76
4:H:215:ASP:O	4:H:219:VAL:HG23	1.86	0.76
4:H:231:LEU:CB	4:H:303:ILE:HD11	2.16	0.76
1:A:198:VAL:O	1:A:201:LYS:HE3	1.86	0.76
2:B:247:GLN:HB2	2:B:248:PRO:HD3	1.68	0.76
2:B:271:ILE:HG22	2:B:272:SER:O	1.85	0.76
3:C:1201:GLN:NE2	3:C:1204:LEU:HG	2.01	0.76
4:D:361:LEU:HA	4:D:364:ILE:HD12	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:793:LEU:O	3:G:797:TYR:HD1	1.69	0.76
3:G:1219:VAL:O	3:G:1223:ILE:HD12	1.86	0.76
2:B:314:LYS:HD2	2:B:353:PHE:CD2	2.21	0.75
3:C:869:ILE:CG2	3:C:911:LEU:HD21	2.15	0.75
3:G:711:LEU:HB3	3:G:755:ILE:CD1	2.16	0.75
4:H:292:LYS:HG2	4:H:293:GLU:H	1.51	0.75
2:B:255:HIS:CG	2:B:256:SER:H	2.05	0.75
3:C:1444:SER:O	3:C:1446:TYR:N	2.19	0.75
4:D:355:ILE:HD11	4:D:388:GLN:NE2	1.99	0.75
4:H:292:LYS:CG	4:H:293:GLU:H	1.99	0.75
3:C:760:ASN:O	3:C:763:PRO:HD2	1.87	0.75
4:D:194:LYS:HG3	4:D:463:SER:CB	2.17	0.75
1:E:200:LYS:HE2	1:E:246:LEU:HB3	1.68	0.75
3:G:635:VAL:CG2	3:G:752:ILE:HG22	2.16	0.75
3:G:1320:LEU:O	3:G:1320:LEU:HD13	1.86	0.75
3:G:1444:SER:O	3:G:1446:TYR:N	2.19	0.75
4:H:318:LYS:HE3	4:H:320:TYR:CD2	2.21	0.75
1:A:398:PHE:O	1:A:402:LEU:HD13	1.86	0.75
2:F:303:HIS:HB2	3:G:1106:ASP:OD1	1.86	0.75
3:G:903:ASP:CG	3:G:905:SER:H	1.88	0.75
4:H:493:ASP:OD2	4:H:496:SER:HB2	1.87	0.75
1:A:38:ASN:HB3	1:A:41:GLN:HB2	1.69	0.75
1:A:403:ASP:HA	1:A:406:ARG:HH12	1.51	0.75
2:F:387:ARG:HA	2:F:420:TYR:CE1	2.21	0.75
4:D:306:GLY:HA2	4:D:317:THR:CG2	2.15	0.75
4:D:387:GLU:HG3	4:D:388:GLN:N	2.00	0.75
1:E:247:VAL:HG13	1:E:248:PRO:HD2	1.66	0.75
1:E:403:ASP:HA	1:E:406:ARG:HH11	1.50	0.75
4:H:342:VAL:CG2	4:H:374:VAL:HB	2.12	0.75
3:C:861:PHE:CD1	3:C:1036:LEU:HD11	2.22	0.75
4:D:292:LYS:CG	4:D:293:GLU:H	2.00	0.75
2:F:22:TYR:N	2:F:84:SER:HG	1.84	0.75
2:B:441:LEU:HD21	2:B:447:PHE:HB2	1.66	0.75
3:C:564:VAL:HG12	3:C:565:HIS:N	2.02	0.75
1:E:55:ILE:HD12	1:E:56:ARG:H	1.51	0.75
3:G:341:PHE:HE2	3:G:365:VAL:HG11	1.51	0.75
2:F:103:HIS:CE1	2:F:107:ARG:HE	2.05	0.75
3:G:428:MET:N	3:G:428:MET:SD	2.60	0.75
4:H:447:ARG:HG2	4:H:447:ARG:HH11	1.52	0.75
2:B:76:SER:O	2:B:79:ARG:HB2	1.87	0.74
2:B:362:TYR:O	2:B:362:TYR:HD2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1036:LEU:O	3:C:1037:GLU:HG3	1.86	0.74
3:C:1400:ASP:CA	3:C:1434:LYS:HD3	2.17	0.74
1:E:37:LYS:C	1:E:38:ASN:HD22	1.91	0.74
1:E:50:LYS:H	1:E:50:LYS:CD	1.96	0.74
1:E:118:VAL:HG13	1:E:300:TYR:CD2	2.20	0.74
3:G:549:ASN:HD21	3:G:552:ASN:H	1.31	0.74
4:H:210:PHE:CD1	4:H:210:PHE:O	2.40	0.74
3:C:774:ASN:ND2	3:C:779:THR:OG1	2.19	0.74
2:F:137:LYS:HZ3	2:F:181:GLU:CA	2.01	0.74
2:F:165:GLU:HB3	2:F:201:TYR:CE2	2.21	0.74
2:F:403:ILE:HG22	2:F:408:ILE:HG12	1.69	0.74
3:G:762:LEU:HD23	3:G:762:LEU:H	1.52	0.74
3:G:1023:ASN:HA	3:G:1026:LYS:HB3	1.68	0.74
2:B:209:VAL:CG1	2:B:210:PRO:HD2	2.12	0.74
2:F:164:GLN:HE22	2:F:176:LEU:CD1	1.99	0.74
2:F:411:ILE:HG22	2:F:412:LEU:HD23	1.70	0.74
4:H:398:PHE:CD1	4:H:429:VAL:HG21	2.22	0.74
4:D:215:ASP:O	4:D:219:VAL:HG23	1.87	0.74
1:E:275:VAL:O	1:E:278:ARG:HB3	1.88	0.74
3:G:623:LEU:CD1	3:G:651:ILE:HD11	2.17	0.74
1:A:228:LEU:HD23	1:A:233:ILE:HG12	1.70	0.74
2:B:93:TYR:HD2	2:B:96:ARG:CB	1.93	0.74
3:G:935:ASN:ND2	3:G:937:ASP:N	2.36	0.74
4:H:546:TYR:O	4:H:547:PHE:HB3	1.85	0.74
1:A:251:ILE:HD12	1:A:275:VAL:HG12	1.68	0.74
2:F:367:CYS:SG	2:F:444:PRO:HD3	2.28	0.74
3:G:876:PHE:HA	3:G:881:ARG:HH12	1.52	0.74
3:G:1154:HIS:NE2	3:G:1155:VAL:HG23	2.03	0.74
4:H:194:LYS:CG	4:H:463:SER:HB3	2.17	0.74
1:A:48:THR:HB	1:A:77:LYS:HB2	1.67	0.74
3:C:723:ILE:HD12	3:C:723:ILE:N	2.03	0.74
3:C:1119:ILE:O	3:C:1123:VAL:HG23	1.87	0.74
1:E:158:VAL:HG22	1:E:333:PRO:HA	1.67	0.74
3:G:1369:PRO:O	3:G:1378:THR:HG23	1.88	0.74
4:H:532:PRO:HG2	4:H:533:VAL:H	1.53	0.74
3:C:1105:ARG:HA	3:C:1108:ILE:HD12	1.69	0.74
3:C:1314:ASP:O	3:C:1316:LYS:HD2	1.87	0.74
3:C:1395:TYR:HA	3:C:1398:ILE:HD11	1.69	0.74
1:E:398:PHE:O	1:E:402:LEU:HD13	1.86	0.74
3:G:857:LEU:HD23	3:G:859:LEU:HG	1.69	0.74
3:C:956:MET:O	3:C:959:CYS:HB3	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1216:ILE:HD12	3:C:1216:ILE:N	2.03	0.74
4:H:574:LEU:N	4:H:574:LEU:HD12	2.03	0.74
1:A:200:LYS:HD2	1:A:246:LEU:HD22	1.68	0.74
1:E:20:LEU:CD2	1:E:357:LEU:HD22	2.07	0.74
1:E:313:ILE:O	1:E:313:ILE:HG12	1.88	0.74
2:F:280:SER:HA	2:F:284:PHE:HD1	1.52	0.74
3:G:1345:TRP:CZ3	3:G:1358:ARG:HG3	2.23	0.74
3:C:1335:ARG:NH2	4:D:433:PRO:HD3	2.03	0.73
1:E:379:ARG:HH11	1:E:379:ARG:HG3	1.53	0.73
2:F:200:VAL:HG11	2:F:209:VAL:HG22	1.70	0.73
2:F:428:PHE:CZ	2:F:450:GLU:HB3	2.23	0.73
3:G:344:TYR:HA	3:G:497:CYS:O	1.87	0.73
3:G:437:LYS:NZ	3:G:800:ASN:HD22	1.86	0.73
3:C:1369:PRO:O	3:C:1378:THR:HG23	1.88	0.73
3:C:1394:PHE:O	3:C:1398:ILE:HG12	1.87	0.73
4:D:292:LYS:HG2	4:D:293:GLU:N	2.03	0.73
2:F:32:PRO:HA	2:F:104:PHE:HE2	1.52	0.73
2:F:47:ILE:CD1	3:G:1266:GLN:HB3	2.18	0.73
1:A:56:ARG:C	1:A:58:GLN:HE21	1.92	0.73
2:B:94:GLU:CG	2:B:95:PRO:HD3	2.17	0.73
3:G:695:ILE:HG21	3:G:781:MET:O	1.87	0.73
4:H:202:LEU:CD2	4:H:457:SER:HB3	2.18	0.73
3:G:563:LEU:HD21	3:G:746:TRP:CD1	2.22	0.73
3:G:1337:PHE:CE2	3:G:1391:GLN:HG2	2.22	0.73
4:H:224:ILE:HD11	4:H:256:GLN:OE1	1.89	0.73
1:A:137:MET:O	1:A:141:ILE:HG13	1.87	0.73
2:F:104:PHE:O	2:F:107:ARG:HB2	1.89	0.73
2:F:417:GLY:O	2:F:418:THR:HG22	1.88	0.73
3:G:659:TRP:CG	3:G:660:SER:N	2.56	0.73
3:G:1143:PRO:HB2	3:G:1159:LEU:HD21	1.70	0.73
3:G:1235:ILE:O	3:G:1238:TRP:HB2	1.89	0.73
1:A:49:LEU:HB3	1:A:50:LYS:NZ	2.02	0.73
3:C:507:LEU:H	3:C:507:LEU:HD12	1.52	0.73
4:D:342:VAL:CG1	4:D:374:VAL:HB	2.17	0.73
1:E:13:LEU:HD22	1:E:17:TYR:CE2	2.24	0.73
1:E:49:LEU:HB3	1:E:50:LYS:NZ	2.03	0.73
3:G:865:TYR:H	3:G:865:TYR:HD2	1.32	0.73
2:B:47:ILE:HD13	2:B:260:GLN:NE2	2.02	0.73
3:C:701:ILE:HD11	3:C:714:GLN:NE2	2.04	0.73
3:C:944:ILE:HA	3:C:947:LYS:NZ	2.03	0.73
4:D:296:LEU:HA	4:D:300:GLN:OE1	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:343:LEU:O	4:H:344:VAL:HG23	1.89	0.73
3:C:537:LEU:HD12	3:C:570:LEU:HD21	1.70	0.73
3:C:938:LEU:HA	3:C:941:GLN:HB2	1.70	0.73
4:D:171:VAL:HG23	4:D:595:VAL:HG12	1.69	0.73
4:D:546:TYR:O	4:D:547:PHE:HB3	1.87	0.73
1:E:293:GLU:O	1:E:297:MET:HG3	1.89	0.73
2:F:316:ILE:HB	2:F:448:PHE:HE2	1.54	0.73
3:G:365:VAL:HG22	3:G:376:CYS:HB2	1.69	0.73
3:G:500:GLU:CD	3:G:502:LYS:HE3	2.08	0.73
4:H:243:LEU:O	4:H:284:ILE:HG21	1.87	0.73
1:A:43:ARG:HH11	1:A:80:ILE:CG2	2.01	0.73
1:A:111:ASP:OD1	1:A:163:ARG:HG3	1.89	0.73
2:B:433:ASN:O	2:B:434:VAL:HG12	1.89	0.73
3:C:774:ASN:O	3:C:775:ILE:HD12	1.89	0.73
4:D:446:SER:O	4:D:450:LYS:HG2	1.88	0.73
3:G:599:LYS:O	3:G:603:GLU:HG2	1.89	0.73
3:G:938:LEU:HA	3:G:941:GLN:HB2	1.70	0.73
2:B:164:GLN:HE22	2:B:176:LEU:CD1	2.01	0.73
4:D:166:ASN:N	4:D:166:ASN:ND2	2.27	0.73
1:E:206:GLU:OE1	1:E:206:GLU:HA	1.89	0.73
3:G:773:GLY:O	3:G:794:HIS:NE2	2.21	0.73
3:G:1149:LYS:HD3	3:G:1150:LYS:N	2.04	0.73
1:A:145:ALA:HB2	1:A:211:PHE:CE2	2.24	0.72
3:C:803:VAL:HB	3:C:804:PRO:CD	2.19	0.72
4:D:346:CYS:HB2	4:D:378:PHE:CB	2.18	0.72
4:D:479:HIS:ND1	4:D:509:TYR:OH	2.20	0.72
2:F:22:TYR:HB3	2:F:23:PRO:HD3	1.71	0.72
2:F:94:GLU:HB3	2:F:95:PRO:HD3	1.71	0.72
3:G:341:PHE:CE2	3:G:365:VAL:HG11	2.24	0.72
4:H:306:GLY:HA2	4:H:317:THR:CG2	2.16	0.72
1:A:393:LYS:HZ1	1:A:396:GLU:HB3	1.53	0.72
2:B:319:THR:OG1	2:B:322:GLN:HG3	1.89	0.72
3:C:610:GLU:HG2	3:C:621:PHE:CZ	2.24	0.72
3:C:682:ARG:HD3	3:C:682:ARG:C	2.10	0.72
3:C:1307:LEU:H	3:C:1307:LEU:HD12	1.54	0.72
4:D:539:ILE:HG22	4:D:541:PRO:HD3	1.71	0.72
3:G:346:LEU:HD22	3:G:689:MET:HE1	1.69	0.72
3:G:925:VAL:HG21	3:G:945:ARG:HD3	1.71	0.72
3:G:1296:PHE:CZ	3:G:1405:LEU:HD21	2.17	0.72
1:A:393:LYS:HE3	1:A:396:GLU:HB2	1.69	0.72
3:C:843:LEU:H	3:C:981:ARG:HG2	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1122:ASN:HA	3:C:1125:ASN:ND2	2.04	0.72
4:H:494:ARG:HH11	4:H:494:ARG:HG3	1.54	0.72
1:A:51:ASP:HB2	1:A:53:ILE:HD13	1.70	0.72
2:B:434:VAL:HG23	2:B:435:ASP:N	2.02	0.72
3:C:346:LEU:HD12	3:C:363:GLY:HA2	1.71	0.72
2:F:387:ARG:HG3	2:F:388:HIS:CD2	2.24	0.72
3:G:360:PHE:CD1	3:G:665:LEU:HD11	2.24	0.72
3:C:437:LYS:HD3	3:C:800:ASN:ND2	2.04	0.72
3:G:510:PRO:HA	3:G:517:GLU:OE1	1.89	0.72
3:G:869:ILE:HG22	3:G:869:ILE:O	1.89	0.72
1:A:353:ILE:HB	1:A:386:THR:HG21	1.70	0.72
4:D:307:ILE:O	4:D:315:VAL:HG23	1.89	0.72
4:D:376:ILE:O	4:D:377:LEU:HD23	1.89	0.72
2:F:29:TYR:HB3	2:F:103:HIS:CD2	2.24	0.72
2:F:51:LYS:HE2	2:F:260:GLN:HB2	1.72	0.72
3:G:539:VAL:O	3:G:564:VAL:HG13	1.88	0.72
3:G:1140:THR:O	3:G:1140:THR:HG22	1.89	0.72
4:H:166:ASN:HD22	4:H:166:ASN:N	1.84	0.72
1:A:82:ALA:HB2	1:A:104:LYS:HD3	1.70	0.72
2:F:286:PRO:HB2	2:F:385:PRO:HG3	1.70	0.72
2:F:313:LEU:O	2:F:316:ILE:HG12	1.90	0.72
3:G:598:PHE:CE1	3:G:738:LEU:HB3	2.25	0.72
3:G:945:ARG:O	3:G:949:LEU:HG	1.89	0.72
4:H:522:TYR:HA	4:H:525:PHE:HB3	1.72	0.72
1:A:178:SER:O	1:A:182:ARG:HG3	1.90	0.72
1:A:207:LYS:HZ1	2:B:172:SER:HA	1.54	0.72
2:B:443:HIS:HE1	2:B:445:ASN:CB	2.03	0.72
4:D:522:TYR:HA	4:D:525:PHE:HB3	1.70	0.72
1:E:192:VAL:HG23	1:E:302:PHE:CD1	2.24	0.72
2:F:282:LYS:HA	2:F:431:ILE:HD11	1.71	0.72
2:F:403:ILE:HG22	2:F:408:ILE:CG1	2.20	0.72
3:G:1374:CYS:SG	3:G:1374:CYS:O	2.47	0.72
4:H:227:LEU:HD23	4:H:301:VAL:HB	1.72	0.72
4:H:400:ASP:O	4:H:403:LYS:N	2.22	0.72
2:B:342:ASP:HA	2:B:346:SER:HB2	1.70	0.72
1:E:269:TRP:NE1	1:E:273:LYS:HD3	2.05	0.72
3:C:876:PHE:HZ	3:C:960:LEU:HD21	1.55	0.72
3:C:1399:PHE:O	3:C:1434:LYS:HG3	1.89	0.72
1:E:143:ASP:HA	1:E:146:LEU:HD12	1.70	0.72
2:F:104:PHE:CE1	2:F:107:ARG:CZ	2.72	0.72
2:F:258:THR:OG1	2:F:261:ASP:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:265:GLN:CG	2:F:266:GLY:H	2.03	0.72
2:F:316:ILE:HB	2:F:448:PHE:CE2	2.24	0.72
3:G:533:SER:OG	3:G:534:PRO:HD2	1.90	0.72
1:A:237:LYS:HA	1:A:240:TRP:CD2	2.25	0.71
3:C:428:MET:SD	3:C:428:MET:N	2.62	0.71
2:F:300:HIS:ND1	2:F:301:LEU:N	2.38	0.71
4:H:294:TYR:HE1	4:H:486:SER:C	1.93	0.71
3:C:498:TRP:O	3:C:528:VAL:HG13	1.89	0.71
3:C:552:ASN:O	3:C:553:HIS:ND1	2.15	0.71
3:C:953:ALA:HA	3:C:956:MET:HG2	1.71	0.71
3:C:1185:ASN:O	3:C:1185:ASN:ND2	2.16	0.71
3:G:563:LEU:HD13	3:G:579:PHE:CD2	2.25	0.71
4:H:308:ASN:HD21	4:H:311:GLY:CA	1.97	0.71
2:B:104:PHE:O	2:B:107:ARG:HB2	1.89	0.71
2:B:359:ARG:O	2:B:360:THR:HG22	1.90	0.71
3:C:991:VAL:HG12	3:C:996:LEU:O	1.90	0.71
3:C:1141:LYS:NZ	3:C:1147:PRO:CD	2.53	0.71
3:C:1334:ILE:HG21	3:C:1440:PHE:CD1	2.25	0.71
2:F:262:TYR:O	2:F:264:THR:HG22	1.89	0.71
3:C:477:PHE:CD1	3:C:802:ILE:HG21	2.25	0.71
4:D:227:LEU:HD12	4:D:227:LEU:C	2.11	0.71
1:E:30:LEU:HD11	1:E:80:ILE:HD13	1.73	0.71
1:E:107:VAL:HG12	1:E:168:TRP:HA	1.71	0.71
1:E:323:VAL:HG21	1:E:350:ILE:HD12	1.72	0.71
3:G:588:LYS:HD3	3:G:594:PHE:CE1	2.25	0.71
3:G:875:CYS:HB3	3:G:878:THR:CG2	2.20	0.71
4:H:573:ARG:C	4:H:574:LEU:HD12	2.11	0.71
1:A:209:HIS:CE1	1:A:211:PHE:H	2.08	0.71
1:A:382:ASP:OD1	1:A:385:LYS:HB2	1.90	0.71
2:B:265:GLN:CG	2:B:266:GLY:H	2.03	0.71
3:C:558:ILE:HG13	3:C:558:ILE:O	1.89	0.71
3:C:720:ARG:NH1	3:C:722:VAL:HG22	2.06	0.71
3:C:865:TYR:N	3:C:866:PRO:CD	2.54	0.71
3:C:1358:ARG:NH2	4:D:514:PRO:O	2.24	0.71
3:G:497:CYS:SG	3:G:499:LEU:HD21	2.31	0.71
3:G:669:ASN:HD22	3:G:669:ASN:N	1.87	0.71
3:G:1290:ASN:HD22	3:G:1292:TYR:HE1	1.37	0.71
4:H:231:LEU:HB2	4:H:303:ILE:HD11	1.72	0.71
1:A:227:ALA:O	1:A:233:ILE:HG23	1.91	0.71
2:B:45:LEU:HD13	2:B:101:ILE:HG21	1.72	0.71
2:B:62:SER:O	2:B:63:TYR:HD2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:288:MET:HG3	2:B:312:PHE:CE2	2.25	0.71
3:C:803:VAL:HB	3:C:804:PRO:HD2	1.73	0.71
1:E:60:PHE:HB3	1:E:65:ASP:HB2	1.72	0.71
3:G:1026:LYS:HG3	3:G:1030:ASN:ND2	2.04	0.71
1:A:259:PHE:HE2	1:A:271:HIS:HB3	1.55	0.71
2:B:28:PHE:O	2:B:30:LEU:N	2.23	0.71
3:C:1334:ILE:HG21	3:C:1440:PHE:CE1	2.24	0.71
4:D:227:LEU:HD11	4:D:231:LEU:CG	2.18	0.71
2:F:264:THR:OG1	2:F:265:GLN:N	2.23	0.71
3:G:430:PHE:CD2	3:G:430:PHE:N	2.58	0.71
3:G:668:SER:C	3:G:669:ASN:HD22	1.94	0.71
3:G:922:ARG:HH12	3:G:950:LYS:CD	2.04	0.71
4:H:243:LEU:O	4:H:284:ILE:HD13	1.89	0.71
2:B:114:GLU:N	2:B:117:ARG:HH21	1.89	0.71
2:B:163:GLU:HG3	2:B:178:LEU:HD22	1.73	0.71
3:C:939:ILE:HG22	3:C:940:LEU:N	2.05	0.71
3:C:1328:ASN:HB3	4:D:392:CYS:SG	2.31	0.71
1:E:221:LYS:HB2	1:E:221:LYS:HZ2	1.50	0.71
3:G:774:ASN:ND2	3:G:779:THR:OG1	2.20	0.71
2:F:49:ARG:NH1	2:F:124:GLU:OE2	2.23	0.71
3:G:558:ILE:O	3:G:559:ALA:HB2	1.90	0.71
3:G:788:ASN:HD22	3:G:956:MET:HA	1.56	0.71
4:H:227:LEU:HD23	4:H:301:VAL:CB	2.21	0.71
4:H:407:ARG:HG3	4:H:407:ARG:HH11	1.54	0.71
3:C:578:PRO:HB2	3:C:753:LEU:HD23	1.73	0.71
3:C:716:LEU:HG	3:C:755:ILE:HG13	1.72	0.71
3:C:855:PHE:CE1	3:C:1045:LYS:HG3	2.26	0.71
3:C:1241:LEU:O	3:C:1243:PRO:HD2	1.91	0.71
4:D:411:GLU:HG3	4:D:414:ARG:NH1	2.06	0.71
4:D:525:PHE:CD1	4:D:529:ALA:HB3	2.25	0.71
3:G:843:LEU:HD11	3:G:845:LEU:HD21	1.72	0.71
4:D:358:ASP:HB2	4:D:359:PRO:CD	2.21	0.70
1:E:144:ARG:HD3	1:E:218:ILE:HD11	1.73	0.70
3:G:804:PRO:HG2	3:G:967:PHE:CE2	2.25	0.70
3:G:1300:GLY:N	3:G:1303:MET:HE3	2.02	0.70
1:A:157:TRP:HB3	1:A:334:ILE:HD12	1.74	0.70
3:C:716:LEU:HD11	3:C:754:GLN:HB2	1.72	0.70
3:C:1345:TRP:HZ3	3:C:1358:ARG:HB2	1.56	0.70
1:E:408:GLY:O	1:E:412:LYS:HB3	1.90	0.70
2:F:255:HIS:CG	2:F:256:SER:N	2.59	0.70
2:F:392:GLU:O	2:F:396:GLN:HG3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1405:LEU:C	3:G:1407:LYS:H	1.92	0.70
1:A:244:LEU:CD1	1:A:256:GLN:HE22	2.03	0.70
1:A:349:THR:HG22	1:A:351:SER:H	1.56	0.70
2:F:441:LEU:HD12	2:F:446:GLN:OE1	1.90	0.70
3:G:975:LEU:C	3:G:975:LEU:HD12	2.12	0.70
4:H:243:LEU:HD22	4:H:253:LEU:HD12	1.71	0.70
3:C:1115:ARG:HH11	3:C:1115:ARG:HG3	1.57	0.70
3:G:430:PHE:N	3:G:430:PHE:HD2	1.87	0.70
3:G:1192:ALA:C	3:G:1193:TYR:HD1	1.93	0.70
1:A:152:PHE:O	1:A:155:ARG:NH1	2.24	0.70
3:C:873:ASN:OD1	3:C:878:THR:HG21	1.92	0.70
3:C:875:CYS:HB3	3:C:878:THR:CG2	2.16	0.70
3:C:921:ARG:HH22	3:C:945:ARG:NH2	1.88	0.70
3:C:935:ASN:ND2	3:C:935:ASN:C	2.44	0.70
3:C:1350:GLU:OE2	3:C:1351:PRO:HD2	1.92	0.70
4:D:354:SER:HB2	4:D:356:THR:HG23	1.72	0.70
1:E:82:ALA:HB2	1:E:104:LYS:HD3	1.72	0.70
3:C:920:GLU:HG2	3:C:923:LYS:NZ	2.07	0.70
2:F:336:MET:HG2	2:F:337:ASP:N	2.06	0.70
3:G:594:PHE:HD1	3:G:594:PHE:H	1.39	0.70
3:G:1143:PRO:HB2	3:G:1159:LEU:CD2	2.22	0.70
4:H:389:VAL:HG13	4:H:398:PHE:CE1	2.22	0.70
4:H:476:LEU:HD13	4:H:509:TYR:HD2	1.56	0.70
2:B:176:LEU:O	2:B:176:LEU:HD23	1.92	0.70
3:C:788:ASN:HD22	3:C:956:MET:HA	1.57	0.70
3:C:944:ILE:HA	3:C:947:LYS:HZ3	1.55	0.70
3:C:1185:ASN:C	3:C:1185:ASN:ND2	2.43	0.70
3:C:1345:TRP:HA	3:C:1345:TRP:HE3	1.57	0.70
4:D:185:ARG:HB2	4:D:188:ALA:HB3	1.73	0.70
2:F:247:GLN:HB2	2:F:248:PRO:HD3	1.74	0.70
4:H:227:LEU:HD23	4:H:301:VAL:CG1	2.21	0.70
4:H:307:ILE:O	4:H:315:VAL:HG22	1.91	0.70
3:C:1023:ASN:HA	3:C:1026:LYS:HB2	1.74	0.70
2:F:300:HIS:HA	2:F:331:PHE:CE1	2.27	0.70
3:G:1215:GLN:O	3:G:1218:PRO:HD2	1.92	0.70
3:C:531:ASP:O	3:C:532:VAL:HG23	1.92	0.70
3:C:558:ILE:O	3:C:559:ALA:HB2	1.90	0.70
3:C:978:TYR:HA	3:C:981:ARG:NH2	2.07	0.70
3:C:1141:LYS:HZ2	3:C:1147:PRO:HD3	1.53	0.70
4:D:539:ILE:HD13	4:D:557:VAL:HB	1.73	0.70
2:F:387:ARG:HH12	3:G:995:ASN:HB3	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:513:TRP:HB3	3:G:627:HIS:CD2	2.27	0.70
3:G:700:LEU:O	3:G:701:ILE:HG22	1.91	0.70
3:G:1267:LEU:H	3:G:1267:LEU:HD12	1.56	0.70
4:H:343:LEU:CD1	4:H:344:VAL:H	2.03	0.70
1:A:209:HIS:CG	1:A:210:PRO:HD2	2.27	0.69
3:C:364:LYS:NZ	3:C:538:VAL:HG23	2.07	0.69
3:C:635:VAL:HG23	3:C:752:ILE:CG2	2.22	0.69
3:C:786:GLU:O	3:C:789:GLU:HB3	1.92	0.69
3:G:946:GLN:HE22	3:G:947:LYS:HG3	1.57	0.69
1:A:18:ARG:HG3	1:A:19:ARG:HG3	1.75	0.69
1:A:247:VAL:CG1	1:A:248:PRO:HD2	2.21	0.69
3:C:453:LEU:HG	3:C:455:VAL:HG23	1.74	0.69
4:D:310:THR:HG21	4:D:312:ARG:HD2	1.72	0.69
2:F:76:SER:O	2:F:79:ARG:HB3	1.91	0.69
3:G:903:ASP:OD2	3:G:906:LEU:HD12	1.92	0.69
3:G:1122:ASN:HA	3:G:1125:ASN:ND2	2.07	0.69
4:H:361:LEU:HA	4:H:364:ILE:CD1	2.21	0.69
3:C:1158:ALA:HA	3:C:1161:ILE:HD12	1.73	0.69
4:D:476:LEU:HD12	4:D:476:LEU:O	1.92	0.69
2:F:252:HIS:HD2	2:F:255:HIS:CD2	2.10	0.69
3:G:760:ASN:HB3	3:G:944:ILE:HD11	1.73	0.69
2:B:241:GLN:OE1	2:B:241:GLN:O	2.10	0.69
2:B:441:LEU:HD12	2:B:446:GLN:CD	2.12	0.69
3:C:543:SER:H	3:C:749:ALA:CB	2.03	0.69
3:C:1140:THR:HG22	3:C:1140:THR:O	1.90	0.69
3:C:1431:ARG:O	3:C:1435:ASN:ND2	2.25	0.69
4:D:399:GLU:O	4:D:403:LYS:HG2	1.93	0.69
3:G:756:MET:SD	3:G:762:LEU:HD21	2.32	0.69
3:G:1219:VAL:O	3:G:1222:ARG:HG2	1.92	0.69
1:A:135:MET:O	1:A:139:ILE:HG13	1.91	0.69
3:C:1225:GLU:HB3	3:C:1226:PRO:HD3	1.73	0.69
3:C:1244:THR:HG22	3:C:1247:ARG:HH22	1.57	0.69
3:C:1334:ILE:CG2	3:C:1440:PHE:CE1	2.75	0.69
3:C:1363:GLN:O	3:C:1370:LEU:HB3	1.93	0.69
3:C:1405:LEU:C	3:C:1407:LYS:H	1.93	0.69
2:B:139:LYS:HA	2:B:142:ASP:OD1	1.93	0.69
3:C:1028:GLU:O	3:C:1032:LEU:HG	1.92	0.69
3:C:1250:HIS:HE1	3:C:1254:ASP:CB	2.06	0.69
1:E:156:LEU:HD22	1:E:395:PHE:HE1	1.57	0.69
3:G:585:VAL:HG22	3:G:618:LEU:CD1	2.20	0.69
3:G:939:ILE:HG22	3:G:940:LEU:N	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1216:ILE:H	3:G:1216:ILE:HD12	1.56	0.69
3:G:1349:GLU:HG2	3:G:1378:THR:O	1.92	0.69
1:A:5:ASP:OD1	1:A:8:GLU:HG3	1.92	0.69
2:B:434:VAL:HG23	2:B:436:ASP:N	2.06	0.69
3:C:1307:LEU:HD12	3:C:1307:LEU:N	2.07	0.69
4:D:255:GLY:C	4:D:272:LEU:HD11	2.13	0.69
4:D:389:VAL:HG13	4:D:398:PHE:CE1	2.25	0.69
2:F:28:PHE:O	2:F:30:LEU:N	2.26	0.69
2:F:367:CYS:HB3	2:F:421:GLN:NE2	2.07	0.69
2:F:441:LEU:HD11	2:F:447:PHE:HB2	1.75	0.69
3:G:873:ASN:ND2	3:G:878:THR:HG21	2.08	0.69
1:A:136:THR:HG23	1:A:339:VAL:HG12	1.74	0.69
1:A:255:LEU:CD1	1:A:272:LEU:HD13	2.23	0.69
2:B:23:PRO:CD	2:B:25:CYS:HB2	2.22	0.69
2:B:87:GLU:HG3	2:B:93:TYR:HE1	1.56	0.69
2:B:414:LEU:O	2:B:417:GLY:N	2.24	0.69
3:C:636:GLY:HA2	3:C:752:ILE:HD13	1.74	0.69
1:E:349:THR:HG22	1:E:351:SER:N	2.05	0.69
2:F:50:VAL:HG23	2:F:106:LEU:CD1	2.21	0.69
2:F:137:LYS:HZ3	2:F:181:GLU:HA	1.55	0.69
2:F:362:TYR:C	2:F:362:TYR:CD2	2.64	0.69
3:G:807:GLN:O	3:G:808:ILE:HG13	1.93	0.69
3:G:874:ILE:HD13	3:G:976:VAL:HG22	1.73	0.69
3:G:946:GLN:NE2	3:G:947:LYS:HG3	2.08	0.69
3:G:1010:THR:O	3:G:1011:ASN:HB2	1.93	0.69
3:G:1196:GLU:HG3	3:G:1197:GLN:H	1.56	0.69
3:G:1211:TYR:HA	3:G:1215:GLN:HB2	1.74	0.69
1:A:177:LEU:N	1:A:182:ARG:HH21	1.89	0.69
1:E:49:LEU:HB3	1:E:50:LYS:HZ2	1.57	0.69
3:C:732:TYR:CD2	3:C:738:LEU:HD13	2.28	0.69
3:C:1212:LEU:HD22	3:C:1239:LEU:HB3	1.74	0.69
4:D:164:ARG:HH12	4:D:167:ARG:NH2	1.90	0.69
1:E:141:ILE:HG22	1:E:142:ILE:HD13	1.75	0.69
3:G:387:LEU:HD12	3:G:457:TYR:HE1	1.57	0.69
3:G:1119:ILE:O	3:G:1123:VAL:HG23	1.93	0.69
3:G:1273:TYR:HD2	3:G:1394:PHE:HD1	1.40	0.69
2:B:121:ILE:HG12	2:B:226:LEU:HD23	1.74	0.68
2:F:358:LYS:CD	3:G:1274:ARG:HH22	2.04	0.68
2:F:414:LEU:O	2:F:417:GLY:N	2.25	0.68
1:A:276:ALA:O	1:A:279:TYR:HB3	1.93	0.68
3:C:364:LYS:NZ	3:C:537:LEU:HA	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1141:LYS:HZ1	3:C:1147:PRO:CD	2.07	0.68
4:D:265:LEU:HD13	4:D:298:PRO:HG3	1.76	0.68
1:A:27:TYR:HB2	1:A:63:GLN:HG3	1.75	0.68
3:C:499:LEU:CD2	3:C:528:VAL:HG22	2.24	0.68
3:C:954:ASN:HD22	3:C:954:ASN:N	1.87	0.68
3:C:1345:TRP:HA	3:C:1345:TRP:CE3	2.28	0.68
4:H:175:GLY:O	4:H:176:LEU:HD23	1.94	0.68
4:H:186:GLY:HA3	4:H:371:ARG:NH2	2.08	0.68
1:A:244:LEU:HD13	1:A:256:GLN:HE22	1.58	0.68
3:C:543:SER:HB2	3:C:749:ALA:N	2.08	0.68
4:D:243:LEU:HD22	4:D:253:LEU:HD13	1.74	0.68
3:G:366:TRP:HB2	3:G:373:HIS:CD2	2.28	0.68
3:G:549:ASN:HD21	3:G:552:ASN:N	1.92	0.68
3:G:873:ASN:ND2	3:G:878:THR:CG2	2.57	0.68
3:G:1023:ASN:O	3:G:1026:LYS:HB3	1.94	0.68
3:G:1186:LEU:HD13	3:G:1190:GLN:HB3	1.74	0.68
3:G:1245:GLN:O	3:G:1248:VAL:HB	1.93	0.68
2:B:75:GLU:HB3	2:B:130:PHE:HZ	1.59	0.68
2:B:258:THR:HG21	2:B:261:ASP:OD1	1.94	0.68
3:C:512:SER:HB2	3:C:664:ARG:O	1.93	0.68
2:F:178:LEU:O	2:F:179:GLY:O	2.12	0.68
3:G:350:GLU:HB3	3:G:359:VAL:HG22	1.74	0.68
3:G:1009:ASN:OD1	3:G:1011:ASN:ND2	2.27	0.68
3:G:1340:LYS:HD3	3:G:1383:TYR:CD1	2.28	0.68
2:B:434:VAL:HG23	2:B:436:ASP:H	1.58	0.68
3:C:1007:MET:SD	3:C:1047:LEU:HD21	2.33	0.68
4:D:327:PHE:HZ	4:D:552:LEU:O	1.77	0.68
1:E:89:ASN:HD22	1:E:89:ASN:N	1.91	0.68
1:E:106:LEU:HD21	1:E:185:ILE:HD13	1.75	0.68
1:E:120:ARG:HB3	1:E:120:ARG:NH1	2.09	0.68
1:A:87:ARG:HD3	1:A:90:GLN:NE2	2.08	0.68
3:C:354:ASN:HD22	3:C:354:ASN:N	1.90	0.68
3:C:496:PRO:O	3:C:497:CYS:HB3	1.93	0.68
2:F:287:CYS:SG	2:F:288:MET:HE3	2.33	0.68
3:G:395:LYS:HB2	3:G:408:ILE:HD11	1.74	0.68
1:A:87:ARG:HD3	1:A:90:GLN:HE21	1.59	0.68
2:B:178:LEU:O	2:B:179:GLY:O	2.11	0.68
2:B:376:PRO:HD2	2:B:388:HIS:CD2	2.29	0.68
3:C:865:TYR:O	3:C:869:ILE:HG13	1.94	0.68
2:F:103:HIS:NE2	2:F:107:ARG:NE	2.40	0.68
3:G:1230:ILE:CD1	3:G:1238:TRP:HH2	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:474:THR:HG21	4:H:518:MET:HE2	1.75	0.68
1:E:192:VAL:HG23	1:E:302:PHE:CE1	2.28	0.68
3:G:651:ILE:CG2	3:G:652:ASN:N	2.57	0.68
4:H:573:ARG:O	4:H:593:VAL:HG13	1.94	0.68
2:B:443:HIS:HE1	2:B:445:ASN:H	1.38	0.68
4:D:400:ASP:O	4:D:403:LYS:N	2.26	0.68
2:F:259:GLY:O	2:F:260:GLN:HB2	1.94	0.68
3:G:364:LYS:NZ	3:G:537:LEU:HD23	2.01	0.68
3:G:416:GLU:OE1	3:G:471:GLU:N	2.27	0.68
3:G:957:TYR:O	3:G:959:CYS:N	2.27	0.68
3:G:1050:LEU:HD11	3:G:1222:ARG:O	1.93	0.68
3:G:1182:ASP:OD2	3:G:1182:ASP:N	2.25	0.68
4:H:343:LEU:HD11	4:H:571:PHE:HD1	1.59	0.68
1:A:202:VAL:HG11	1:A:298:LEU:HD12	1.77	0.67
2:B:369:LYS:O	2:B:371:ILE:N	2.27	0.67
3:C:549:ASN:HD21	3:C:552:ASN:N	1.92	0.67
3:C:1116:LEU:HA	3:C:1119:ILE:CG1	2.24	0.67
2:F:23:PRO:C	2:F:25:CYS:N	2.47	0.67
3:G:1035:LEU:O	3:G:1037:GLU:HG3	1.93	0.67
4:H:334:ASP:HA	4:H:337:PHE:CD2	2.28	0.67
2:B:410:GLN:NE2	2:B:426:LYS:HE3	2.09	0.67
3:C:549:ASN:HD21	3:C:552:ASN:H	1.41	0.67
3:C:1105:ARG:HA	3:C:1108:ILE:CD1	2.24	0.67
4:D:467:VAL:HG11	4:D:576:LEU:HD13	1.76	0.67
1:E:162:ARG:HG3	1:E:327:THR:CG2	2.22	0.67
2:F:295:LEU:HD12	2:F:295:LEU:O	1.93	0.67
3:G:990:MET:O	3:G:994:MET:HG3	1.93	0.67
4:H:209:MET:O	4:H:209:MET:SD	2.52	0.67
2:B:39:LEU:HD11	2:B:245:ARG:HD2	1.76	0.67
3:C:395:LYS:HB2	3:C:408:ILE:HD11	1.76	0.67
3:C:1035:LEU:O	3:C:1037:GLU:HG3	1.95	0.67
3:C:1235:ILE:HD12	3:C:1235:ILE:N	2.09	0.67
3:C:1441:LEU:N	3:C:1441:LEU:HD23	2.10	0.67
2:F:389:SER:OG	2:F:397:LYS:NZ	2.26	0.67
3:C:651:ILE:HG23	3:C:652:ASN:N	2.09	0.67
1:E:24:SER:HA	1:E:63:GLN:OE1	1.95	0.67
1:E:232:ASP:OD2	1:E:235:GLU:HB3	1.95	0.67
3:G:784:ARG:H	3:G:784:ARG:CD	2.08	0.67
3:C:340:VAL:HG23	3:C:501:VAL:O	1.95	0.67
3:C:628:LYS:HG2	3:G:933:ASP:CB	2.23	0.67
4:D:571:PHE:CD2	4:D:571:PHE:N	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:352:PHE:O	1:E:355:ARG:HB3	1.94	0.67
2:F:313:LEU:CB	2:F:318:LEU:HD12	2.24	0.67
3:G:362:PHE:CZ	3:G:665:LEU:HG	2.28	0.67
3:G:543:SER:H	3:G:749:ALA:CB	2.03	0.67
3:G:1360:LEU:HD22	4:H:216:ILE:CG2	2.23	0.67
4:H:267:ASN:O	4:H:288:LEU:HD12	1.95	0.67
2:B:32:PRO:HA	2:B:104:PHE:CE2	2.29	0.67
2:B:53:LEU:HD21	2:B:124:GLU:OE1	1.94	0.67
2:B:255:HIS:CG	2:B:256:SER:N	2.62	0.67
3:C:549:ASN:ND2	3:C:552:ASN:H	1.92	0.67
3:C:695:ILE:HD12	3:C:781:MET:O	1.95	0.67
3:C:1047:LEU:HD13	3:C:1057:ALA:HB2	1.77	0.67
3:C:1076:GLY:C	3:C:1077:LEU:HD23	2.15	0.67
2:F:163:GLU:HG3	2:F:178:LEU:HD22	1.75	0.67
3:G:1146:TYR:CE2	3:G:1155:VAL:HG21	2.29	0.67
4:H:240:PHE:CD1	4:H:254:LEU:HB2	2.29	0.67
1:A:95:LYS:NZ	3:C:881:ARG:H	1.92	0.67
3:C:583:PHE:CE2	3:C:625:LYS:HE2	2.29	0.67
3:C:693:VAL:HG11	3:C:755:ILE:HG22	1.75	0.67
3:C:788:ASN:O	3:C:789:GLU:C	2.33	0.67
3:C:1139:LEU:CD1	3:C:1139:LEU:H	2.08	0.67
1:E:135:MET:SD	1:E:164:GLY:HA2	2.35	0.67
2:F:170:SER:CB	2:F:171:PRO:HD2	2.24	0.67
3:G:1095:VAL:O	3:G:1097:GLY:N	2.28	0.67
3:G:1251:TYR:HD1	3:G:1254:ASP:H	1.42	0.67
2:B:427:TYR:O	2:B:431:ILE:HG22	1.94	0.67
3:C:843:LEU:HB3	3:C:981:ARG:HG2	1.76	0.67
3:C:1141:LYS:HZ1	3:C:1147:PRO:HD3	1.58	0.67
4:D:243:LEU:HB3	4:D:284:ILE:CD1	2.25	0.67
3:G:843:LEU:H	3:G:981:ARG:HG2	1.59	0.67
3:G:865:TYR:HD2	3:G:865:TYR:N	1.92	0.67
4:H:227:LEU:HD23	4:H:301:VAL:HG11	1.77	0.67
3:C:597:ALA:O	3:C:601:VAL:HG23	1.95	0.67
3:C:957:TYR:O	3:C:959:CYS:N	2.28	0.67
3:G:351:ASP:OD2	3:G:354:ASN:HB2	1.95	0.67
3:G:762:LEU:HD23	3:G:762:LEU:N	2.08	0.67
3:G:1141:LYS:HZ2	3:G:1147:PRO:HD3	1.58	0.67
4:H:367:ILE:O	4:H:372:PRO:HD2	1.95	0.67
3:C:874:ILE:HD13	3:C:976:VAL:CG2	2.24	0.67
4:H:360:LEU:CD1	4:H:409:ILE:HD11	2.16	0.67
1:A:234:LEU:CD2	1:A:243:ILE:HD12	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:443:ILE:O	3:C:446:VAL:HG23	1.94	0.66
3:C:876:PHE:CZ	3:C:960:LEU:HD21	2.29	0.66
3:C:953:ALA:O	3:C:956:MET:N	2.26	0.66
4:D:538:LEU:HG	4:D:540:ILE:HG13	1.77	0.66
4:D:571:PHE:N	4:D:571:PHE:HD2	1.93	0.66
1:E:382:ASP:OD1	1:E:385:LYS:HD2	1.95	0.66
1:A:213:ARG:HH11	1:A:213:ARG:HG2	1.59	0.66
2:B:45:LEU:CD1	2:B:101:ILE:HG21	2.25	0.66
3:C:362:PHE:CD2	3:C:687:GLY:HA3	2.30	0.66
3:C:903:ASP:OD2	3:C:906:LEU:HD12	1.95	0.66
3:C:589:PRO:CG	3:C:592:CYS:HB2	2.24	0.66
2:F:308:GLN:CD	2:F:370:ILE:HD13	2.16	0.66
3:G:542:PHE:CD2	3:G:542:PHE:O	2.49	0.66
3:G:622:PHE:CE2	3:G:647:LEU:HD21	2.27	0.66
4:H:257:ILE:HD11	4:H:302:VAL:CG1	2.25	0.66
4:H:341:MET:HE2	4:H:573:ARG:CD	2.25	0.66
4:H:426:LEU:HD12	4:H:518:MET:HE2	1.77	0.66
3:C:1111:ASN:O	3:C:1114:LYS:HB3	1.95	0.66
4:D:171:VAL:CG2	4:D:595:VAL:HG12	2.25	0.66
1:E:262:SER:HB2	1:E:268:ARG:NE	2.08	0.66
3:G:991:VAL:HG12	3:G:996:LEU:O	1.95	0.66
4:H:286:VAL:HG11	4:H:304:MET:HE1	1.76	0.66
3:C:492:LYS:O	3:C:494:LYS:HD2	1.96	0.66
3:C:747:LYS:O	3:C:751:PHE:CD1	2.49	0.66
3:C:1009:ASN:HD21	3:C:1011:ASN:HD21	1.41	0.66
3:C:1095:VAL:O	3:C:1097:GLY:N	2.28	0.66
3:C:1437:ALA:O	3:C:1440:PHE:N	2.29	0.66
1:E:159:TYR:HE2	1:E:329:ARG:HB2	1.60	0.66
1:E:162:ARG:CZ	1:E:326:LYS:HD3	2.25	0.66
2:F:313:LEU:HB3	2:F:318:LEU:CD1	2.24	0.66
3:G:935:ASN:ND2	3:G:935:ASN:C	2.49	0.66
4:H:342:VAL:HG21	4:H:464:ILE:HD13	1.78	0.66
1:A:50:LYS:NZ	1:A:73:MET:O	2.25	0.66
2:B:336:MET:HE2	2:B:340:LYS:HD3	1.76	0.66
3:C:364:LYS:HZ2	3:C:537:LEU:HA	1.60	0.66
3:C:759:LEU:N	3:C:759:LEU:HD23	2.09	0.66
3:C:778:ARG:HA	3:C:781:MET:SD	2.35	0.66
4:D:240:PHE:CD1	4:D:254:LEU:HB2	2.30	0.66
1:E:68:LYS:CE	1:E:72:LYS:HD3	2.25	0.66
1:E:221:LYS:HB3	1:E:222:TYR:CD1	2.30	0.66
2:F:312:PHE:O	2:F:316:ILE:HG23	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:PHE:HD1	1:A:167:CYS:SG	2.19	0.66
2:B:358:LYS:NZ	3:C:1274:ARG:NH2	2.43	0.66
3:C:350:GLU:OE2	3:C:484:LEU:HB2	1.94	0.66
3:C:364:LYS:HE3	3:C:632:ASP:OD1	1.95	0.66
3:C:944:ILE:CG1	3:C:947:LYS:HZ1	2.08	0.66
3:C:1236:ALA:HB1	3:C:1246:PHE:CD2	2.30	0.66
2:F:184:TYR:HE1	2:F:210:PRO:C	1.99	0.66
2:F:243:ASP:OD1	2:F:245:ARG:N	2.28	0.66
3:G:865:TYR:N	3:G:866:PRO:CD	2.59	0.66
3:G:932:GLN:HE21	3:G:933:ASP:H	1.43	0.66
3:G:1036:LEU:HD12	3:G:1037:GLU:H	1.60	0.66
3:G:1186:LEU:CD2	3:G:1187:THR:H	2.08	0.66
3:C:1116:LEU:HA	3:C:1119:ILE:HG12	1.78	0.66
1:E:8:GLU:O	1:E:12:LEU:HG	1.96	0.66
1:E:146:LEU:O	1:E:152:PHE:HB2	1.95	0.66
1:E:384:LYS:HA	1:E:389:ALA:HB2	1.78	0.66
3:G:375:SER:HB2	3:G:514:CYS:SG	2.36	0.66
3:G:564:VAL:HG12	3:G:565:HIS:H	1.61	0.66
3:G:788:ASN:HD22	3:G:956:MET:HE3	1.60	0.66
3:G:1185:ASN:HD22	3:G:1185:ASN:C	1.98	0.66
3:G:1235:ILE:HA	3:G:1238:TRP:CE3	2.30	0.66
1:A:154:HIS:CD2	1:A:154:HIS:N	2.60	0.66
2:B:156:ASP:HA	2:B:159:LYS:HB3	1.76	0.66
2:B:282:LYS:HA	2:B:431:ILE:HD11	1.78	0.66
1:E:142:ILE:O	1:E:146:LEU:HG	1.95	0.66
1:E:150:PHE:HB3	1:E:152:PHE:CD1	2.30	0.66
1:E:156:LEU:HD11	1:E:333:PRO:HB3	1.77	0.66
3:G:745:THR:HG22	3:G:746:TRP:N	2.09	0.66
3:G:769:THR:HG23	3:G:774:ASN:OD1	1.95	0.66
3:G:903:ASP:OD1	3:G:905:SER:N	2.28	0.66
3:G:947:LYS:O	3:G:950:LYS:HB3	1.96	0.66
3:G:1206:ILE:HD13	3:G:1207:ASP:H	1.60	0.66
3:G:1250:HIS:ND1	3:G:1251:TYR:N	2.42	0.66
4:H:259:CYS:HB2	4:H:265:LEU:HD12	1.78	0.66
4:H:296:LEU:HD23	4:H:300:GLN:NE2	2.11	0.66
2:B:167:VAL:HG13	2:B:173:LEU:CD2	2.25	0.66
3:C:341:PHE:HE2	3:C:365:VAL:HG11	1.61	0.66
3:C:586:VAL:HG11	3:C:742:LEU:CD1	2.26	0.66
3:C:618:LEU:HD23	3:C:618:LEU:C	2.16	0.66
3:C:1085:CYS:SG	3:C:1132:GLN:O	2.48	0.66
3:C:1122:ASN:HA	3:C:1125:ASN:HD21	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:157:TRP:HA	1:E:166:HIS:O	1.95	0.66
1:E:335:ASP:OD1	1:E:338:LYS:HD2	1.96	0.66
2:F:276:ILE:HG23	2:F:284:PHE:HZ	1.60	0.66
3:G:555:ASN:HD22	3:G:555:ASN:N	1.75	0.66
4:H:447:ARG:HG2	4:H:447:ARG:NH1	2.10	0.66
2:B:246:LEU:O	2:B:250:LEU:HD12	1.96	0.65
3:C:1045:LYS:O	3:C:1045:LYS:HG2	1.96	0.65
3:C:1112:ILE:O	3:C:1116:LEU:HD13	1.95	0.65
4:D:548:VAL:HG13	4:D:557:VAL:HG22	1.79	0.65
2:F:158:GLU:HG2	2:F:162:ARG:NH2	2.10	0.65
2:F:369:LYS:O	2:F:371:ILE:N	2.29	0.65
3:G:876:PHE:HA	3:G:881:ARG:NH1	2.11	0.65
3:G:1395:TYR:HA	3:G:1398:ILE:CD1	2.25	0.65
3:G:1395:TYR:O	3:G:1398:ILE:HG13	1.96	0.65
1:A:235:GLU:C	1:A:236:ASN:HD22	1.98	0.65
2:B:421:GLN:HG2	6:B:601:SF4:S4	2.36	0.65
3:C:1047:LEU:HG	3:C:1049:LEU:HD21	1.77	0.65
4:D:170:VAL:CG1	4:D:594:GLN:HE21	2.00	0.65
4:D:445:LEU:CD1	4:D:450:LYS:HZ3	2.09	0.65
1:E:48:THR:OG1	1:E:77:LYS:HB2	1.96	0.65
3:G:767:GLN:OE1	3:G:945:ARG:HB2	1.96	0.65
3:G:861:PHE:HD1	3:G:864:LEU:HD22	1.61	0.65
3:G:1335:ARG:NH2	4:H:433:PRO:HD3	2.11	0.65
3:C:653:VAL:HG12	3:C:654:CYS:N	2.11	0.65
3:C:1250:HIS:CE1	3:C:1251:TYR:HB2	2.31	0.65
4:D:212:LYS:HZ2	4:D:215:ASP:CG	1.99	0.65
2:F:22:TYR:CB	2:F:84:SER:OG	2.44	0.65
3:G:440:ALA:O	3:G:881:ARG:NH2	2.29	0.65
3:G:513:TRP:HB3	3:G:627:HIS:NE2	2.11	0.65
3:G:1058:LEU:CD2	3:G:1100:LEU:HD22	2.26	0.65
3:G:1149:LYS:HD3	3:G:1150:LYS:H	1.60	0.65
4:H:567:VAL:CG1	4:H:568:GLY:H	2.09	0.65
2:B:23:PRO:C	2:B:25:CYS:N	2.49	0.65
2:B:104:PHE:HE1	2:B:107:ARG:NH2	1.93	0.65
3:C:491:ARG:CZ	3:C:524:ASP:HA	2.26	0.65
3:C:499:LEU:HD22	3:C:528:VAL:HG22	1.78	0.65
3:C:1044:PHE:HA	3:C:1058:LEU:O	1.96	0.65
2:F:114:GLU:CD	2:F:117:ARG:HH12	2.00	0.65
3:G:468:LEU:CD2	3:G:476:VAL:HG11	2.22	0.65
3:G:953:ALA:O	3:G:956:MET:N	2.28	0.65
3:G:1044:PHE:HA	3:G:1058:LEU:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1157:VAL:O	3:G:1161:ILE:HG13	1.96	0.65
3:G:1187:THR:O	3:G:1191:ARG:HG3	1.96	0.65
4:H:464:ILE:HD12	4:H:469:PHE:CE1	2.31	0.65
4:H:531:LEU:N	4:H:531:LEU:HD23	2.11	0.65
3:C:375:SER:HB2	3:C:514:CYS:SG	2.36	0.65
3:C:1201:GLN:HE21	3:C:1204:LEU:HG	1.61	0.65
3:G:484:LEU:O	3:G:488:LEU:HD23	1.96	0.65
3:G:1364:PHE:CB	4:H:217:ARG:HE	2.07	0.65
4:H:494:ARG:HG3	4:H:494:ARG:NH1	2.09	0.65
1:A:212:ILE:O	1:A:216:ILE:HG13	1.95	0.65
4:D:593:VAL:HG12	4:D:594:GLN:N	2.10	0.65
2:F:342:ASP:HA	2:F:346:SER:HB3	1.78	0.65
3:G:558:ILE:O	3:G:558:ILE:HD12	1.97	0.65
3:G:1201:GLN:NE2	3:G:1204:LEU:HG	2.11	0.65
4:H:156:THR:N	4:H:157:PRO:CD	2.59	0.65
4:H:198:CYS:HB2	4:H:199:PRO:CD	2.26	0.65
3:C:974:ALA:HA	3:C:977:THR:OG1	1.97	0.65
3:C:1242:ASP:O	3:C:1246:PHE:HB2	1.96	0.65
4:D:224:ILE:HD13	4:D:256:GLN:HB3	1.79	0.65
2:F:192:LEU:HA	2:F:195:PHE:CE2	2.31	0.65
3:G:499:LEU:CD2	3:G:528:VAL:HG22	2.27	0.65
3:G:1025:VAL:O	3:G:1029:VAL:HG23	1.96	0.65
3:G:1047:LEU:HD13	3:G:1057:ALA:HB2	1.79	0.65
1:A:110:ILE:HG12	1:A:305:LEU:HD21	1.79	0.65
2:B:362:TYR:HD2	2:B:362:TYR:C	2.00	0.65
3:C:775:ILE:HG22	3:C:775:ILE:O	1.95	0.65
1:E:68:LYS:HE3	1:E:72:LYS:NZ	2.10	0.65
4:H:445:LEU:HB2	4:H:450:LYS:NZ	2.12	0.65
4:H:458:GLU:OE1	4:H:472:THR:HA	1.97	0.65
4:H:574:LEU:HG	4:H:593:VAL:HG22	1.79	0.65
3:C:522:LYS:HG3	3:C:525:LEU:HG	1.79	0.65
3:C:556:GLU:HA	3:C:650:ARG:HE	1.61	0.65
3:C:799:ASN:O	3:C:801:TYR:HD1	1.80	0.65
3:C:858:LEU:HD13	3:C:1007:MET:CG	2.26	0.65
3:C:1157:VAL:HG21	3:C:1177:TYR:CB	2.27	0.65
3:C:1233:VAL:O	3:C:1237:THR:HG23	1.97	0.65
4:D:257:ILE:CG2	4:D:258:GLY:N	2.49	0.65
4:D:394:LEU:HD13	4:D:401:ILE:CD1	2.26	0.65
4:D:445:LEU:HD13	4:D:450:LYS:NZ	2.12	0.65
3:G:464:LEU:HD13	3:G:468:LEU:CD2	2.26	0.65
3:G:669:ASN:N	3:G:669:ASN:ND2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1135:ILE:HD12	3:G:1177:TYR:CE1	2.31	0.65
2:B:285:PRO:HG2	2:B:287:CYS:SG	2.37	0.65
3:C:488:LEU:HD11	3:C:775:ILE:HD11	1.78	0.65
3:C:540:MET:HE3	3:C:631:PRO:HG3	1.79	0.65
3:C:607:VAL:O	3:C:609:VAL:N	2.28	0.65
3:C:865:TYR:N	3:C:865:TYR:CD2	2.65	0.65
3:C:1219:VAL:O	3:C:1222:ARG:HG2	1.97	0.65
2:F:309:TYR:O	2:F:313:LEU:HG	1.97	0.65
3:G:555:ASN:ND2	3:G:555:ASN:N	2.31	0.65
3:G:1322:PHE:HD1	3:G:1325:GLN:HE22	1.43	0.65
4:H:465:ASN:O	4:H:467:VAL:HG23	1.96	0.65
1:A:202:VAL:HG11	1:A:298:LEU:CD1	2.27	0.64
3:C:1108:ILE:O	3:C:1112:ILE:HG13	1.97	0.64
4:D:356:THR:OG1	4:D:358:ASP:OD2	2.15	0.64
2:F:437:CYS:SG	2:F:438:GLY:N	2.70	0.64
3:G:1118:GLU:O	3:G:1119:ILE:C	2.36	0.64
1:A:96:LEU:O	3:C:880:GLN:NE2	2.31	0.64
3:C:857:LEU:HD21	3:C:859:LEU:CD2	2.27	0.64
3:C:1400:ASP:HA	3:C:1434:LYS:HD3	1.80	0.64
4:D:532:PRO:HG2	4:D:533:VAL:H	1.62	0.64
1:E:68:LYS:HE3	1:E:72:LYS:HD3	1.78	0.64
2:F:75:GLU:HB3	2:F:130:PHE:CZ	2.27	0.64
3:G:645:GLU:O	3:G:646:VAL:C	2.35	0.64
3:G:794:HIS:O	3:G:797:TYR:HB2	1.97	0.64
3:G:855:PHE:HE2	3:G:1045:LYS:HG3	1.62	0.64
3:G:875:CYS:SG	3:G:877:THR:N	2.69	0.64
2:B:94:GLU:HG3	2:B:95:PRO:CD	2.27	0.64
3:C:344:TYR:HB2	3:C:498:TRP:CE2	2.32	0.64
3:C:599:LYS:HE2	3:C:611:VAL:HG13	1.78	0.64
3:C:1038:ILE:HG13	3:C:1039:ASP:H	1.60	0.64
3:C:1279:PHE:CE1	3:C:1280:LYS:O	2.50	0.64
4:D:383:ASP:OD1	4:D:385:LYS:N	2.31	0.64
3:G:1058:LEU:HD21	3:G:1100:LEU:HD22	1.80	0.64
2:B:62:SER:C	2:B:63:TYR:HD2	2.01	0.64
3:C:555:ASN:HD22	3:C:555:ASN:N	1.86	0.64
2:F:355:LYS:HG2	3:G:1247:ARG:CZ	2.27	0.64
3:G:349:TYR:HD1	3:G:665:LEU:HD12	1.62	0.64
3:G:589:PRO:CG	3:G:592:CYS:HB2	2.26	0.64
3:G:760:ASN:O	3:G:763:PRO:HD2	1.96	0.64
3:G:866:PRO:HG3	3:G:954:ASN:HA	1.79	0.64
2:B:49:ARG:NH1	2:B:124:GLU:OE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:94:GLU:CB	2:B:95:PRO:HD3	2.27	0.64
2:B:228:LYS:O	2:B:231:ALA:HB3	1.98	0.64
2:B:422:VAL:HA	2:B:425:GLN:HG3	1.80	0.64
3:C:903:ASP:CG	3:C:905:SER:H	2.01	0.64
3:C:1235:ILE:O	3:C:1238:TRP:HB2	1.96	0.64
3:G:522:LYS:HG3	3:G:525:LEU:HD11	1.79	0.64
3:G:873:ASN:HD21	3:G:878:THR:CG2	2.10	0.64
3:G:1221:ALA:O	3:G:1223:ILE:N	2.30	0.64
3:G:1437:ALA:O	3:G:1440:PHE:N	2.29	0.64
4:H:477:LEU:HD11	4:H:499:LEU:HG	1.79	0.64
3:C:529:ILE:HG23	3:C:529:ILE:O	1.96	0.64
3:C:720:ARG:HD3	3:C:721:VAL:O	1.97	0.64
3:C:1157:VAL:HG21	3:C:1177:TYR:HB3	1.78	0.64
4:D:164:ARG:HH12	4:D:167:ARG:HH21	1.44	0.64
1:E:9:LEU:O	1:E:9:LEU:HD23	1.97	0.64
2:F:199:LYS:O	2:F:200:VAL:HG13	1.97	0.64
3:G:853:ASP:HB3	3:G:854:LYS:HD3	1.77	0.64
3:G:1185:ASN:C	3:G:1185:ASN:ND2	2.50	0.64
4:H:286:VAL:HG11	4:H:304:MET:CE	2.28	0.64
3:C:346:LEU:HB3	3:C:689:MET:HE2	1.79	0.64
3:C:631:PRO:O	3:C:688:ARG:NH1	2.31	0.64
3:C:650:ARG:O	3:C:654:CYS:SG	2.54	0.64
3:C:1050:LEU:HD22	3:C:1226:PRO:HG2	1.78	0.64
4:D:291:LEU:HD11	4:D:317:THR:C	2.18	0.64
1:E:335:ASP:HB3	1:E:338:LYS:HG2	1.79	0.64
2:F:45:LEU:HD12	2:F:101:ILE:HG21	1.80	0.64
2:F:171:PRO:C	2:F:173:LEU:H	2.00	0.64
3:G:549:ASN:ND2	3:G:552:ASN:H	1.95	0.64
3:G:618:LEU:HD23	3:G:619:LEU:CD2	2.28	0.64
3:G:1128:VAL:HG11	3:G:1133:PHE:HE2	1.62	0.64
2:B:23:PRO:HG3	2:B:93:TYR:OH	1.97	0.64
2:B:300:HIS:ND1	2:B:301:LEU:N	2.45	0.64
2:B:368:LEU:HD21	2:B:372:LEU:HD12	1.78	0.64
3:C:411:LYS:H	3:C:411:LYS:HD2	1.62	0.64
3:C:721:VAL:HG12	3:C:722:VAL:N	2.13	0.64
3:C:856:ILE:HG21	3:C:1007:MET:HG2	1.79	0.64
3:C:943:ASP:OD2	3:C:947:LYS:NZ	2.31	0.64
3:C:1143:PRO:HB2	3:C:1159:LEU:CD2	2.28	0.64
3:C:1362:LEU:HD22	4:D:273:GLU:HG2	1.79	0.64
4:D:156:THR:N	4:D:157:PRO:CD	2.59	0.64
4:D:257:ILE:HD12	4:D:270:VAL:CG1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:270:VAL:HG12	4:D:271:ILE:N	2.12	0.64
1:E:139:ILE:HD11	1:E:334:ILE:CD1	2.28	0.64
1:E:204:LEU:HD22	1:E:208:ILE:HD11	1.80	0.64
2:F:158:GLU:HG2	2:F:162:ARG:HH21	1.61	0.64
2:F:316:ILE:N	2:F:445:ASN:HD21	1.95	0.64
3:G:344:TYR:HB2	3:G:498:TRP:CE2	2.33	0.64
3:G:1046:SER:HB2	3:G:1058:LEU:CD1	2.28	0.64
4:H:426:LEU:CD1	4:H:518:MET:HE2	2.28	0.64
3:C:796:PHE:CZ	3:C:910:ILE:HG21	2.33	0.64
3:G:1422:PHE:CD2	3:G:1422:PHE:N	2.65	0.64
4:H:224:ILE:CD1	4:H:256:GLN:HB3	2.28	0.64
1:A:108:PHE:HZ	1:A:185:ILE:HG21	1.62	0.64
2:B:74:LEU:HD23	2:B:130:PHE:CG	2.33	0.64
3:C:549:ASN:ND2	3:C:552:ASN:N	2.46	0.64
3:C:1372:PRO:HA	3:C:1375:MET:CE	2.27	0.64
1:E:89:ASN:ND2	1:E:89:ASN:H	1.95	0.64
3:G:599:LYS:HE2	3:G:611:VAL:HG13	1.78	0.64
3:G:788:ASN:O	3:G:789:GLU:C	2.35	0.64
4:H:423:VAL:HG12	4:H:423:VAL:O	1.97	0.64
4:H:532:PRO:HG2	4:H:533:VAL:N	2.13	0.64
1:A:160:SER:HB3	1:A:166:HIS:NE2	2.13	0.63
2:B:47:ILE:HD11	3:C:1266:GLN:CB	2.23	0.63
3:C:946:GLN:NE2	3:C:947:LYS:HG3	2.14	0.63
4:D:193:LEU:CD1	4:D:462:LEU:HD21	2.25	0.63
2:F:156:ASP:HA	2:F:159:LYS:HB3	1.80	0.63
3:G:512:SER:HB2	3:G:664:ARG:O	1.98	0.63
3:G:792:LEU:HD12	3:G:967:PHE:CD1	2.33	0.63
3:G:867:SER:O	3:G:870:GLN:HB2	1.98	0.63
3:G:975:LEU:HD12	3:G:975:LEU:O	1.98	0.63
3:G:1198:LEU:HG	3:G:1199:GLN:N	2.13	0.63
4:H:202:LEU:HD22	4:H:457:SER:CB	2.24	0.63
4:H:260:ASP:OD2	4:H:269:SER:HB3	1.98	0.63
4:H:495:PHE:HA	4:H:498:ILE:HD12	1.80	0.63
2:B:105:ILE:HG22	2:B:106:LEU:N	2.14	0.63
2:B:120:PHE:CD2	2:B:230:LEU:HD11	2.33	0.63
2:B:293:LYS:HE2	2:B:297:GLU:CG	2.27	0.63
3:C:360:PHE:HE2	3:C:379:MET:HG3	1.62	0.63
3:C:1115:ARG:HG3	3:C:1115:ARG:NH1	2.11	0.63
3:C:1139:LEU:H	3:C:1139:LEU:HD13	1.64	0.63
3:C:1160:TRP:HE3	3:C:1161:ILE:HG13	1.62	0.63
4:D:227:LEU:HD23	4:D:301:VAL:HG11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:507:LEU:HD12	3:G:507:LEU:N	2.13	0.63
3:G:604:LYS:C	3:G:604:LYS:HD3	2.18	0.63
3:G:1267:LEU:HD12	3:G:1267:LEU:N	2.12	0.63
3:G:1273:TYR:CD2	3:G:1394:PHE:HD1	2.16	0.63
2:B:118:ARG:HH11	2:B:118:ARG:CG	2.11	0.63
2:B:421:GLN:NE2	2:B:442:ASN:HA	2.12	0.63
3:C:353:TYR:HD2	3:C:354:ASN:HD21	1.46	0.63
3:C:972:LEU:H	3:C:972:LEU:CD2	2.10	0.63
3:C:1211:TYR:HA	3:C:1215:GLN:HB2	1.80	0.63
3:C:1244:THR:HA	3:C:1247:ARG:CZ	2.29	0.63
4:D:302:VAL:CG2	4:D:304:MET:HG3	2.27	0.63
2:F:22:TYR:HB3	2:F:23:PRO:CD	2.28	0.63
3:G:843:LEU:HD23	3:G:984:LEU:HB3	1.80	0.63
3:G:1098:GLN:OE1	3:G:1098:GLN:HA	1.98	0.63
4:H:385:LYS:HD3	4:H:427:ARG:NH2	2.13	0.63
2:B:163:GLU:HG3	2:B:178:LEU:CD2	2.28	0.63
1:E:110:ILE:HD11	1:E:157:TRP:HZ3	1.63	0.63
2:F:228:LYS:O	2:F:231:ALA:HB3	1.98	0.63
2:F:235:ARG:HD3	3:G:898:ILE:HB	1.79	0.63
2:F:309:TYR:CE1	2:F:313:LEU:HD21	2.34	0.63
3:C:364:LYS:HE3	3:C:632:ASP:CG	2.19	0.63
3:C:990:MET:HG2	3:C:994:MET:HE2	1.80	0.63
3:C:1362:LEU:HD13	3:C:1362:LEU:N	2.14	0.63
3:G:1135:ILE:HD12	3:G:1177:TYR:HE1	1.63	0.63
3:G:1247:ARG:O	3:G:1250:HIS:HB3	1.98	0.63
2:B:78:LEU:HD21	2:B:131:ARG:NH2	2.11	0.63
2:B:171:PRO:C	2:B:173:LEU:H	2.00	0.63
2:B:199:LYS:O	2:B:200:VAL:HG13	1.99	0.63
3:C:540:MET:CE	3:C:631:PRO:HG3	2.29	0.63
3:C:648:LEU:C	3:C:651:ILE:HG22	2.18	0.63
3:C:650:ARG:HH12	3:C:653:VAL:HG11	1.63	0.63
3:C:863:SER:OG	3:C:866:PRO:HG2	1.99	0.63
3:C:1068:TYR:C	3:C:1068:TYR:CD2	2.72	0.63
3:C:1250:HIS:HE1	3:C:1254:ASP:HB3	1.64	0.63
3:G:659:TRP:N	3:G:659:TRP:CD1	2.67	0.63
3:G:922:ARG:HH12	3:G:950:LYS:HD2	1.64	0.63
3:G:1135:ILE:HG21	3:G:1177:TYR:OH	1.99	0.63
3:G:1148:ASP:OD1	3:G:1151:SER:HB2	1.98	0.63
4:H:346:CYS:HB2	4:H:378:PHE:HB2	1.81	0.63
1:A:37:LYS:HG3	1:A:38:ASN:N	2.09	0.63
1:A:95:LYS:HZ2	3:C:881:ARG:H	1.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:479:THR:OG1	3:C:480:ASN:N	2.30	0.63
3:C:852:TYR:HB3	3:C:856:ILE:HD11	1.79	0.63
4:D:447:ARG:HA	4:D:447:ARG:NH1	2.13	0.63
2:F:94:GLU:CB	2:F:95:PRO:HD3	2.28	0.63
2:F:104:PHE:HE1	2:F:107:ARG:NH2	1.97	0.63
2:F:209:VAL:HG12	2:F:210:PRO:CD	2.23	0.63
3:G:364:LYS:NZ	3:G:538:VAL:HG23	2.13	0.63
3:G:1250:HIS:HE1	3:G:1254:ASP:HB3	1.62	0.63
4:H:540:ILE:HD12	4:H:540:ILE:H	1.63	0.63
1:A:9:LEU:HD11	1:A:325:PRO:HA	1.80	0.63
1:A:141:ILE:HD12	1:A:303:PRO:HD3	1.80	0.63
2:B:358:LYS:NZ	3:C:1274:ARG:HH22	1.96	0.63
4:D:447:ARG:HG2	4:D:447:ARG:HH11	1.63	0.63
1:E:144:ARG:HD3	1:E:218:ILE:CD1	2.29	0.63
1:E:383:TYR:CE1	1:E:392:VAL:HG11	2.33	0.63
2:F:258:THR:CG2	2:F:366:SER:HB2	2.28	0.63
4:H:199:PRO:O	4:H:200:GLU:C	2.37	0.63
3:C:1118:GLU:O	3:C:1119:ILE:C	2.36	0.63
3:C:1216:ILE:H	3:C:1216:ILE:CD1	2.12	0.63
4:D:469:PHE:HZ	4:D:574:LEU:HD22	1.64	0.63
1:E:38:ASN:HD22	1:E:38:ASN:N	1.95	0.63
1:E:137:MET:O	1:E:141:ILE:HG13	1.98	0.63
1:E:212:ILE:O	1:E:216:ILE:HG13	1.99	0.63
2:F:49:ARG:HG3	2:F:106:LEU:HD12	1.81	0.63
2:F:51:LYS:HE2	2:F:260:GLN:CB	2.29	0.63
3:G:763:PRO:O	3:G:766:LEU:N	2.31	0.63
3:G:1266:GLN:HG3	3:G:1267:LEU:N	2.13	0.63
4:H:198:CYS:SG	4:H:527:VAL:O	2.56	0.63
2:B:112:GLN:O	2:B:117:ARG:NH2	2.31	0.62
3:C:760:ASN:C	3:C:763:PRO:HD2	2.20	0.62
3:C:1337:PHE:CD2	3:C:1391:GLN:HG2	2.33	0.62
4:D:394:LEU:HD13	4:D:401:ILE:HD12	1.80	0.62
4:D:567:VAL:CG1	4:D:568:GLY:H	2.09	0.62
2:F:403:ILE:CG2	2:F:408:ILE:HG12	2.28	0.62
3:G:591:ASP:O	3:G:591:ASP:OD1	2.17	0.62
3:G:652:ASN:HD22	3:G:670:MET:HE2	1.63	0.62
3:G:795:ALA:O	3:G:798:GLU:N	2.30	0.62
3:G:1426:VAL:HA	3:G:1429:ASP:OD2	1.98	0.62
3:C:587:SER:O	3:C:732:TYR:OH	2.12	0.62
3:C:1084:TRP:HZ2	3:C:1352:THR:HA	1.63	0.62
4:D:202:LEU:CD2	4:D:457:SER:HB3	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:875:CYS:HB2	3:G:912:PRO:HD3	1.81	0.62
3:C:881:ARG:HH11	3:C:972:LEU:HD21	1.64	0.62
1:E:47:PHE:HE1	1:E:78:ILE:HG23	1.64	0.62
1:E:130:LYS:O	1:E:226:TYR:HE1	1.82	0.62
2:F:166:ILE:HD13	2:F:183:ILE:HD13	1.81	0.62
3:G:392:ARG:CZ	3:G:474:SER:HA	2.29	0.62
3:G:500:GLU:OE2	3:G:502:LYS:HE3	1.99	0.62
3:G:1095:VAL:CG1	3:G:1112:ILE:HD13	2.28	0.62
3:G:1225:GLU:HB3	3:G:1226:PRO:HD3	1.79	0.62
3:G:1236:ALA:HB1	3:G:1246:PHE:CD2	2.35	0.62
4:H:384:ALA:O	4:H:390:GLU:HG2	1.98	0.62
1:A:142:ILE:CD1	1:A:189:LEU:HB3	2.28	0.62
2:B:186:ILE:HG22	2:B:187:PRO:HD2	1.81	0.62
3:C:549:ASN:HB3	3:C:554:GLN:HG3	1.82	0.62
3:C:972:LEU:H	3:C:972:LEU:HD23	1.63	0.62
1:E:46:SER:HB3	1:E:316:LEU:HD13	1.82	0.62
3:G:799:ASN:O	3:G:801:TYR:HD1	1.83	0.62
3:G:1277:GLU:OE1	3:G:1337:PHE:HZ	1.82	0.62
4:H:509:TYR:HD1	4:H:520:ILE:HD11	1.63	0.62
1:A:145:ALA:HB2	1:A:211:PHE:HE2	1.65	0.62
2:B:49:ARG:HB3	2:B:106:LEU:HD12	1.80	0.62
2:B:136:PRO:O	2:B:138:ASP:N	2.33	0.62
3:C:345:TRP:CH2	3:C:775:ILE:HG13	2.31	0.62
4:D:445:LEU:CB	4:D:450:LYS:HZ3	2.11	0.62
2:F:311:LEU:O	2:F:313:LEU:N	2.32	0.62
3:G:803:VAL:HB	3:G:804:PRO:HD2	1.81	0.62
3:G:1186:LEU:HD23	3:G:1187:THR:H	1.64	0.62
1:A:167:CYS:SG	1:A:167:CYS:O	2.57	0.62
2:B:56:VAL:HG21	2:B:127:LEU:HD13	1.81	0.62
2:B:441:LEU:HD21	2:B:447:PHE:HD1	1.64	0.62
3:C:863:SER:C	3:C:866:PRO:HD2	2.18	0.62
3:C:876:PHE:HZ	3:C:960:LEU:CD2	2.12	0.62
3:C:1235:ILE:H	3:C:1235:ILE:CD1	2.13	0.62
2:F:393:LEU:O	2:F:397:LYS:HG3	1.98	0.62
3:G:562:ALA:O	3:G:563:LEU:CD2	2.48	0.62
3:G:903:ASP:OD2	3:G:905:SER:HB3	2.00	0.62
3:G:940:LEU:O	3:G:940:LEU:HD23	1.98	0.62
3:G:1038:ILE:HG13	3:G:1039:ASP:N	2.14	0.62
3:G:1216:ILE:HD12	3:G:1216:ILE:N	2.14	0.62
3:G:1273:TYR:CE2	3:G:1394:PHE:HA	2.35	0.62
1:A:234:LEU:HD21	1:A:243:ILE:CD1	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:276:ILE:HG23	2:B:284:PHE:HZ	1.63	0.62
3:C:439:TYR:CD2	3:C:440:ALA:N	2.68	0.62
3:C:631:PRO:N	3:C:688:ARG:HH12	1.97	0.62
3:C:932:GLN:CD	3:C:933:ASP:H	2.03	0.62
3:C:957:TYR:C	3:C:959:CYS:N	2.53	0.62
3:G:610:GLU:HG2	3:G:621:PHE:CE2	2.35	0.62
2:B:311:LEU:O	2:B:313:LEU:N	2.32	0.62
3:C:344:TYR:HB2	3:C:498:TRP:CD2	2.35	0.62
3:C:795:ALA:O	3:C:798:GLU:N	2.33	0.62
2:F:37:ILE:O	3:G:1449:VAL:HG23	2.00	0.62
3:G:498:TRP:O	3:G:528:VAL:HG13	1.99	0.62
3:G:1111:ASN:O	3:G:1114:LYS:HB3	1.99	0.62
3:G:1314:ASP:O	3:G:1316:LYS:HD2	1.99	0.62
3:G:1405:LEU:C	3:G:1407:LYS:N	2.53	0.62
2:B:368:LEU:CD2	2:B:372:LEU:HD12	2.29	0.62
3:C:346:LEU:HB3	3:C:689:MET:CE	2.29	0.62
3:C:1068:TYR:C	3:C:1068:TYR:HD2	2.02	0.62
3:C:1148:ASP:OD1	3:C:1151:SER:HB2	1.99	0.62
3:C:1206:ILE:HD13	3:C:1207:ASP:H	1.65	0.62
4:D:480:LEU:HD13	4:D:511:LEU:HB2	1.82	0.62
4:H:474:THR:HG21	4:H:518:MET:HE3	1.80	0.62
1:A:210:PRO:HG2	2:B:201:TYR:CE2	2.35	0.62
2:B:258:THR:HG1	2:B:261:ASP:H	1.48	0.62
3:C:659:TRP:CH2	3:C:667:ARG:HD3	2.35	0.62
3:C:763:PRO:O	3:C:766:LEU:N	2.32	0.62
3:C:1135:ILE:HG21	3:C:1177:TYR:OH	2.00	0.62
3:C:1277:GLU:OE1	3:C:1337:PHE:HZ	1.82	0.62
1:E:37:LYS:CG	1:E:38:ASN:H	2.09	0.62
2:F:202:LEU:HA	2:F:206:PHE:O	2.00	0.62
2:F:371:ILE:HD13	2:F:384:CYS:HB3	1.81	0.62
2:F:453:ARG:O	2:F:455:LEU:HD12	2.00	0.62
3:G:723:ILE:HD12	3:G:741:LEU:HD12	1.81	0.62
3:G:1186:LEU:HD13	3:G:1190:GLN:CB	2.29	0.62
4:H:253:LEU:CD2	4:H:253:LEU:N	2.63	0.62
1:A:51:ASP:O	1:A:52:ASP:HB3	2.00	0.61
2:B:243:ASP:OD1	2:B:246:LEU:HG	2.00	0.61
3:C:645:GLU:O	3:C:646:VAL:C	2.37	0.61
1:E:119:ARG:HH11	1:E:119:ARG:HG3	1.65	0.61
2:F:176:LEU:HD23	2:F:176:LEU:O	2.00	0.61
3:G:557:ILE:CG1	3:G:650:ARG:HG3	2.30	0.61
4:H:400:ASP:O	4:H:401:ILE:C	2.38	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:LYS:HE3	1:A:256:GLN:OE1	1.99	0.61
2:B:104:PHE:CE1	2:B:107:ARG:CZ	2.82	0.61
3:C:683:ASN:N	3:C:683:ASN:ND2	2.46	0.61
3:C:746:TRP:O	3:C:748:ASP:N	2.33	0.61
2:F:47:ILE:O	2:F:51:LYS:HG3	2.00	0.61
3:G:496:PRO:O	3:G:497:CYS:HB3	1.99	0.61
4:H:315:VAL:HG23	4:H:315:VAL:O	1.99	0.61
1:A:223:PHE:CE1	1:A:297:MET:HG2	2.35	0.61
2:B:29:TYR:CD1	2:B:103:HIS:CG	2.88	0.61
2:B:76:SER:HA	2:B:79:ARG:HE	1.65	0.61
2:B:285:PRO:HA	2:B:447:PHE:CZ	2.36	0.61
3:C:634:ILE:HD12	3:C:690:ILE:HD12	1.82	0.61
3:C:1251:TYR:CD1	3:C:1253:LYS:HB3	2.36	0.61
4:D:200:GLU:O	4:D:202:LEU:N	2.33	0.61
4:D:407:ARG:O	4:D:408:THR:C	2.39	0.61
4:D:407:ARG:O	4:D:409:ILE:N	2.33	0.61
4:D:540:ILE:HD12	4:D:557:VAL:O	2.00	0.61
2:F:137:LYS:CD	2:F:181:GLU:HA	2.30	0.61
2:F:237:LEU:N	2:F:238:PRO:CD	2.64	0.61
2:F:362:TYR:O	2:F:364:PRO:CD	2.44	0.61
3:G:1154:HIS:CG	3:G:1155:VAL:N	2.68	0.61
3:G:1157:VAL:HG12	3:G:1161:ILE:HD11	1.81	0.61
3:G:1441:LEU:N	3:G:1441:LEU:CD2	2.61	0.61
1:A:219:ILE:HD13	1:A:301:CYS:HB2	1.81	0.61
3:C:477:PHE:HD1	3:C:802:ILE:HG21	1.64	0.61
3:C:1141:LYS:NZ	3:C:1146:TYR:HA	2.15	0.61
4:D:355:ILE:O	4:D:357:TYR:CD1	2.54	0.61
1:E:121:CYS:SG	1:E:131:CYS:HB3	2.41	0.61
1:E:227:ALA:O	1:E:233:ILE:HG12	2.00	0.61
3:G:621:PHE:O	3:G:625:LYS:HG2	2.01	0.61
4:H:400:ASP:HA	4:H:403:LYS:HG3	1.82	0.61
1:A:223:PHE:CZ	1:A:297:MET:HG2	2.34	0.61
1:A:259:PHE:CD2	1:A:259:PHE:N	2.67	0.61
1:A:390:PRO:HG2	1:A:391:TYR:CD1	2.36	0.61
2:B:428:PHE:CD2	2:B:437:CYS:HB2	2.35	0.61
3:C:1151:SER:HA	3:C:1189:SER:CB	2.29	0.61
2:F:137:LYS:HD3	2:F:181:GLU:HA	1.82	0.61
3:G:351:ASP:CG	3:G:354:ASN:HB2	2.20	0.61
3:G:360:PHE:HD1	3:G:665:LEU:HD11	1.66	0.61
3:G:636:GLY:HA2	3:G:752:ILE:HD13	1.82	0.61
3:G:1114:LYS:O	3:G:1117:ILE:HB	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:TYR:O	2:B:364:PRO:CD	2.43	0.61
2:B:418:THR:O	2:B:420:TYR:CD2	2.53	0.61
3:C:579:PHE:N	3:C:579:PHE:CD1	2.68	0.61
3:C:1342:TYR:HB3	4:D:519:ALA:HB1	1.80	0.61
4:D:171:VAL:HB	4:D:546:TYR:CE2	2.35	0.61
1:E:174:VAL:HA	1:E:177:LEU:HG	1.83	0.61
2:F:387:ARG:HH12	3:G:995:ASN:CB	2.12	0.61
3:G:1350:GLU:OE2	3:G:1351:PRO:HD2	1.99	0.61
4:H:200:GLU:O	4:H:202:LEU:N	2.34	0.61
2:B:367:CYS:SG	2:B:443:HIS:CA	2.88	0.61
2:B:439:PHE:CE1	2:B:441:LEU:HD13	2.26	0.61
3:C:413:VAL:HG13	3:C:472:THR:OG1	2.01	0.61
3:C:762:LEU:O	3:C:765:ALA:HB3	2.00	0.61
3:C:1009:ASN:HD21	3:C:1011:ASN:ND2	1.99	0.61
3:C:1370:LEU:HD21	3:C:1375:MET:SD	2.40	0.61
3:C:1401:ALA:HB2	3:C:1430:TYR:CD1	2.32	0.61
4:D:256:GLN:C	4:D:272:LEU:HD12	2.20	0.61
1:E:68:LYS:NZ	1:E:72:LYS:HD3	2.15	0.61
2:F:363:THR:O	2:F:364:PRO:C	2.39	0.61
3:G:346:LEU:HB3	3:G:689:MET:CE	2.31	0.61
3:G:438:ASN:OD1	3:G:449:LYS:HE2	2.00	0.61
3:G:865:TYR:N	3:G:865:TYR:CD2	2.64	0.61
3:G:1147:PRO:O	3:G:1149:LYS:N	2.34	0.61
3:G:1148:ASP:OD2	4:H:262:ASN:HB2	2.00	0.61
3:G:1342:TYR:HB3	4:H:519:ALA:HB1	1.82	0.61
1:A:350:ILE:HA	1:A:353:ILE:HG12	1.82	0.61
2:B:209:VAL:HG12	2:B:210:PRO:CD	2.17	0.61
2:B:418:THR:HG1	2:B:420:TYR:HE2	1.49	0.61
3:C:497:CYS:SG	3:C:499:LEU:CD2	2.89	0.61
3:C:631:PRO:CD	3:C:688:ARG:HH12	2.13	0.61
3:C:1135:ILE:HB	3:C:1177:TYR:CZ	2.35	0.61
3:C:1334:ILE:O	3:C:1338:ILE:HG13	2.01	0.61
4:D:227:LEU:CD2	4:D:301:VAL:HB	2.30	0.61
4:D:256:GLN:HG3	4:D:256:GLN:O	1.99	0.61
4:D:430:HIS:NE2	4:D:440:PHE:CE1	2.68	0.61
4:D:525:PHE:HD1	4:D:529:ALA:HB3	1.64	0.61
1:E:56:ARG:HG2	1:E:57:TYR:CD2	2.36	0.61
3:G:957:TYR:C	3:G:959:CYS:H	2.03	0.61
3:G:1338:ILE:HG23	4:H:209:MET:HE2	1.81	0.61
1:A:94:VAL:HG12	1:A:95:LYS:H	1.65	0.61
3:C:498:TRP:O	3:C:499:LEU:HD23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:147:LYS:HG3	1:E:148:GLU:N	2.16	0.61
2:F:286:PRO:CB	2:F:385:PRO:HG3	2.29	0.61
3:G:381:LYS:HD3	3:G:519:MET:CE	2.31	0.61
3:G:387:LEU:HD21	3:G:479:THR:CA	2.31	0.61
3:G:852:TYR:CE1	3:G:999:ILE:HG21	2.36	0.61
3:G:1050:LEU:HD22	3:G:1226:PRO:HG2	1.83	0.61
2:B:94:GLU:HB3	2:B:95:PRO:HD3	1.82	0.61
3:C:635:VAL:HG21	3:C:756:MET:HE2	1.83	0.61
3:C:774:ASN:ND2	3:C:775:ILE:H	1.98	0.61
3:C:1147:PRO:O	3:C:1149:LYS:N	2.34	0.61
3:C:1250:HIS:CE1	3:C:1254:ASP:HB3	2.35	0.61
3:C:1334:ILE:HG23	3:C:1392:LEU:HD21	1.83	0.61
4:D:328:TYR:O	4:D:330:PRO:HD3	2.00	0.61
2:F:136:PRO:O	2:F:138:ASP:N	2.34	0.61
3:G:602:ILE:HD13	3:G:609:VAL:CG1	2.28	0.61
3:G:922:ARG:HH12	3:G:950:LYS:CE	2.13	0.61
1:A:384:LYS:HA	1:A:389:ALA:HB2	1.82	0.60
3:C:365:VAL:HG22	3:C:376:CYS:CB	2.28	0.60
4:D:170:VAL:HG21	4:D:594:GLN:NE2	2.16	0.60
4:D:232:LYS:HD2	4:D:240:PHE:CE2	2.36	0.60
4:D:332:GLU:HA	4:D:332:GLU:OE2	2.00	0.60
2:F:139:LYS:HA	2:F:142:ASP:OD2	2.01	0.60
3:G:395:LYS:CA	3:G:408:ILE:HD11	2.31	0.60
3:G:721:VAL:CG1	3:G:722:VAL:N	2.64	0.60
3:G:762:LEU:O	3:G:765:ALA:HB3	2.02	0.60
3:G:856:ILE:HD12	3:G:856:ILE:N	2.16	0.60
3:G:1384:SER:HB3	3:G:1387:SER:OG	2.01	0.60
3:G:1395:TYR:O	3:G:1398:ILE:CG1	2.49	0.60
4:H:254:LEU:HD12	4:H:255:GLY:N	2.16	0.60
4:H:354:SER:O	4:H:386:HIS:HE1	1.84	0.60
1:A:121:CYS:SG	1:A:131:CYS:HB3	2.40	0.60
1:A:233:ILE:O	1:A:234:LEU:HD23	2.01	0.60
3:C:642:PHE:O	3:C:646:VAL:HG23	2.01	0.60
3:C:1014:ASN:HD21	3:C:1016:GLU:HB2	1.66	0.60
3:C:1335:ARG:HH21	4:D:433:PRO:HD3	1.65	0.60
4:D:174:PHE:CD1	4:D:175:GLY:N	2.68	0.60
1:E:338:LYS:HG3	1:E:338:LYS:O	2.02	0.60
3:G:389:PHE:CD2	3:G:476:VAL:HB	2.36	0.60
3:G:720:ARG:NH2	3:G:748:ASP:OD2	2.28	0.60
3:G:956:MET:HA	3:G:956:MET:HE3	1.82	0.60
3:G:1185:ASN:ND2	3:G:1185:ASN:O	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:ASP:HA	1:A:244:LEU:HD12	1.83	0.60
2:B:160:THR:HA	2:B:163:GLU:HB2	1.82	0.60
2:B:186:ILE:HG22	2:B:187:PRO:CD	2.31	0.60
3:C:565:HIS:HA	3:C:580:GLN:OE1	2.00	0.60
3:C:1416:LYS:O	3:C:1420:GLN:HB2	2.01	0.60
3:C:1427:LEU:CB	3:C:1431:ARG:HH22	2.12	0.60
1:E:37:LYS:HG3	1:E:38:ASN:N	2.15	0.60
2:F:118:ARG:CZ	2:F:118:ARG:CB	2.79	0.60
2:F:311:LEU:O	2:F:314:LYS:N	2.33	0.60
3:G:1135:ILE:HG22	3:G:1136:ASN:N	2.17	0.60
4:H:182:TRP:HB3	4:H:341:MET:CE	2.31	0.60
4:H:535:PRO:HG3	4:H:538:LEU:HD22	1.81	0.60
1:A:104:LYS:HE2	1:A:315:HIS:N	2.16	0.60
2:B:26:LEU:HD22	2:B:128:LEU:HD12	1.82	0.60
2:B:259:GLY:O	2:B:260:GLN:HB2	2.02	0.60
2:B:311:LEU:O	2:B:314:LYS:N	2.33	0.60
2:B:422:VAL:CA	2:B:425:GLN:HG3	2.31	0.60
3:C:533:SER:HB2	3:C:534:PRO:HD2	1.82	0.60
3:C:586:VAL:HG11	3:C:742:LEU:HD13	1.83	0.60
4:D:406:LEU:O	4:D:410:ILE:HG13	2.01	0.60
4:D:479:HIS:CE1	4:D:509:TYR:HH	2.17	0.60
1:E:237:LYS:HA	1:E:240:TRP:CE2	2.35	0.60
2:F:49:ARG:CB	2:F:102:SER:HB2	2.28	0.60
2:F:105:ILE:CG2	2:F:106:LEU:N	2.64	0.60
3:G:522:LYS:H	3:G:525:LEU:HD12	1.66	0.60
3:G:1222:ARG:HH11	3:G:1222:ARG:HG3	1.67	0.60
4:H:211:GLN:OE1	4:H:521:ASP:HA	2.01	0.60
4:H:231:LEU:HB3	4:H:303:ILE:HD11	1.83	0.60
1:A:247:VAL:HG11	1:A:251:ILE:HG21	1.83	0.60
3:C:507:LEU:HD21	3:C:517:GLU:HB3	1.84	0.60
3:C:623:LEU:HD11	3:C:651:ILE:HD11	1.82	0.60
3:C:659:TRP:CZ2	3:C:667:ARG:HB2	2.37	0.60
3:C:1222:ARG:HB2	3:C:1222:ARG:HH11	1.67	0.60
3:C:1364:PHE:HB2	4:D:217:ARG:CZ	2.31	0.60
4:D:360:LEU:O	4:D:364:ILE:HG13	2.02	0.60
2:F:433:ASN:O	2:F:434:VAL:HG12	2.01	0.60
3:G:634:ILE:HD12	3:G:690:ILE:CD1	2.31	0.60
3:G:1235:ILE:HA	3:G:1238:TRP:HE3	1.65	0.60
3:G:1322:PHE:HB3	3:G:1325:GLN:NE2	2.16	0.60
2:B:120:PHE:HD2	2:B:230:LEU:HD11	1.65	0.60
2:B:358:LYS:CE	3:C:1274:ARG:NH2	2.61	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:TYR:C	2:B:362:TYR:CD2	2.73	0.60
2:B:417:GLY:O	2:B:418:THR:HG22	2.01	0.60
3:C:1050:LEU:O	3:C:1051:LYS:HG2	2.02	0.60
3:C:1434:LYS:O	3:C:1438:GLU:HG3	2.00	0.60
1:E:379:ARG:HG3	1:E:379:ARG:NH1	2.16	0.60
2:F:341:PHE:CD1	2:F:345:TYR:HB2	2.36	0.60
3:G:861:PHE:HD2	3:G:1038:ILE:HA	1.67	0.60
3:G:1147:PRO:C	3:G:1149:LYS:H	2.05	0.60
1:A:113:THR:HG23	1:A:163:ARG:HE	1.67	0.60
2:B:371:ILE:HG22	2:B:372:LEU:CD2	2.32	0.60
3:C:555:ASN:ND2	4:D:248:GLN:NE2	2.49	0.60
3:C:610:GLU:HG2	3:C:621:PHE:CE2	2.37	0.60
3:C:869:ILE:O	3:C:869:ILE:HG22	2.01	0.60
2:F:154:ILE:HD11	2:F:183:ILE:HG22	1.82	0.60
3:G:806:LYS:CE	3:G:807:GLN:H	2.15	0.60
3:G:1081:ARG:HG2	3:G:1081:ARG:NH1	2.09	0.60
4:H:394:LEU:HD22	4:H:401:ILE:CD1	2.32	0.60
1:A:209:HIS:ND1	1:A:210:PRO:N	2.50	0.60
1:A:405:SER:HB3	1:A:409:GLU:OE1	2.00	0.60
2:B:108:LEU:O	2:B:111:CYS:SG	2.52	0.60
2:B:159:LYS:HE3	2:B:178:LEU:CD2	2.31	0.60
3:C:698:LYS:NZ	3:C:706:TYR:HB2	2.16	0.60
3:C:759:LEU:HB2	3:C:761:VAL:HG22	1.83	0.60
1:E:209:HIS:CG	1:E:210:PRO:HD2	2.37	0.60
2:F:73:LYS:HA	2:F:76:SER:HB2	1.83	0.60
2:F:346:SER:OG	2:F:350:ARG:NH1	2.34	0.60
2:F:428:PHE:CE1	2:F:432:HIS:CE1	2.90	0.60
3:G:848:LYS:CD	3:G:999:ILE:HA	2.29	0.60
3:G:1131:SER:C	3:G:1133:PHE:H	2.04	0.60
4:H:174:PHE:C	4:H:174:PHE:CD1	2.74	0.60
4:H:358:ASP:CB	4:H:359:PRO:HD3	2.30	0.60
3:C:345:TRP:O	3:C:346:LEU:HG	2.00	0.60
3:C:491:ARG:NH1	3:C:524:ASP:HA	2.17	0.60
3:C:557:ILE:HG13	3:C:650:ARG:HG3	1.84	0.60
3:C:977:THR:HB	3:C:981:ARG:NH1	2.16	0.60
3:C:1143:PRO:HB2	3:C:1159:LEU:HD23	1.83	0.60
3:G:531:ASP:O	3:G:532:VAL:HG23	2.02	0.60
3:G:940:LEU:HD23	3:G:940:LEU:C	2.22	0.60
3:G:1133:PHE:HB3	3:G:1211:TYR:CZ	2.37	0.60
3:G:1279:PHE:CE1	3:G:1329:LYS:HG3	2.37	0.60
4:H:343:LEU:HD12	4:H:572:ALA:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:532:PRO:CG	4:H:533:VAL:H	2.15	0.60
1:A:94:VAL:HG12	1:A:95:LYS:N	2.17	0.60
1:A:294:TRP:HA	1:A:297:MET:SD	2.42	0.60
1:A:396:GLU:O	1:A:400:GLU:HG3	2.02	0.60
3:C:360:PHE:CE2	3:C:379:MET:HG3	2.36	0.60
3:C:957:TYR:C	3:C:959:CYS:H	2.04	0.60
3:C:1141:LYS:HZ2	3:C:1146:TYR:HA	1.67	0.60
4:D:199:PRO:O	4:D:200:GLU:C	2.39	0.60
4:D:367:ILE:O	4:D:372:PRO:HD2	2.01	0.60
2:F:358:LYS:HE3	2:F:359:ARG:NE	2.16	0.60
3:G:746:TRP:O	3:G:748:ASP:N	2.35	0.60
1:A:153:LYS:HA	1:A:153:LYS:HE2	1.84	0.59
2:B:237:LEU:N	2:B:238:PRO:CD	2.65	0.59
2:B:280:SER:HA	2:B:284:PHE:CE1	2.36	0.59
2:B:342:ASP:HA	2:B:346:SER:CB	2.31	0.59
3:C:354:ASN:N	3:C:354:ASN:ND2	2.50	0.59
3:C:720:ARG:NH1	3:C:722:VAL:HG13	2.17	0.59
3:C:865:TYR:HD2	3:C:865:TYR:N	1.97	0.59
2:F:138:ASP:N	2:F:138:ASP:OD2	2.34	0.59
2:F:253:LEU:O	2:F:254:SER:CB	2.50	0.59
2:F:426:LYS:HD2	2:F:429:GLU:OE1	2.02	0.59
3:G:437:LYS:NZ	3:G:800:ASN:ND2	2.50	0.59
3:G:1307:LEU:HD13	3:G:1430:TYR:OH	2.02	0.59
4:H:294:TYR:O	4:H:294:TYR:CD1	2.53	0.59
1:A:38:ASN:HA	1:A:41:GLN:OE1	2.02	0.59
1:A:108:PHE:CD1	1:A:167:CYS:SG	2.95	0.59
2:B:121:ILE:CG1	2:B:226:LEU:HD23	2.31	0.59
2:B:437:CYS:SG	2:B:438:GLY:N	2.75	0.59
3:C:632:ASP:CG	3:C:664:ARG:HH22	2.05	0.59
3:C:788:ASN:O	3:C:791:LEU:HB3	2.02	0.59
3:C:861:PHE:CE1	3:C:1036:LEU:HD21	2.36	0.59
3:C:1154:HIS:CG	3:C:1155:VAL:N	2.70	0.59
3:C:1405:LEU:C	3:C:1407:LYS:N	2.54	0.59
4:D:198:CYS:HB3	4:D:199:PRO:CD	2.32	0.59
2:F:170:SER:HB3	2:F:171:PRO:CD	2.30	0.59
3:G:539:VAL:CG2	3:G:568:PHE:HD2	2.01	0.59
3:G:1284:PRO:HG2	3:G:1325:GLN:NE2	2.17	0.59
4:H:166:ASN:N	4:H:166:ASN:ND2	2.50	0.59
3:C:1030:ASN:OD1	3:C:1037:GLU:HA	2.01	0.59
4:D:355:ILE:O	4:D:357:TYR:HD1	1.85	0.59
4:D:400:ASP:OD1	4:D:400:ASP:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:400:ASP:O	4:D:401:ILE:C	2.40	0.59
2:F:358:LYS:CG	2:F:359:ARG:H	2.15	0.59
3:G:544:MET:HE1	3:G:647:LEU:HD13	1.84	0.59
1:A:200:LYS:HA	1:A:246:LEU:HD22	1.84	0.59
2:B:359:ARG:HH11	2:B:359:ARG:HG3	1.66	0.59
3:C:564:VAL:HG12	3:C:565:HIS:H	1.67	0.59
3:C:598:PHE:HD1	3:C:735:SER:HG	1.50	0.59
3:C:862:ASN:ND2	3:C:1039:ASP:HB2	2.18	0.59
3:C:953:ALA:O	3:C:956:MET:HG2	2.02	0.59
3:C:978:TYR:O	3:C:979:LYS:C	2.41	0.59
3:C:1149:LYS:CG	3:C:1150:LYS:H	2.13	0.59
3:C:1330:LEU:HD11	3:C:1399:PHE:HE2	1.67	0.59
3:C:1441:LEU:HD23	3:C:1441:LEU:H	1.66	0.59
4:D:246:PRO:HG3	4:D:311:GLY:HA3	1.84	0.59
1:E:355:ARG:HH11	1:E:355:ARG:HB2	1.67	0.59
2:F:135:LEU:HB2	2:F:140:ILE:HG13	1.83	0.59
2:F:287:CYS:HB2	2:F:288:MET:HE2	1.84	0.59
2:F:309:TYR:CE2	2:F:313:LEU:HD11	2.37	0.59
3:G:398:LEU:O	3:G:398:LEU:HD23	2.01	0.59
3:G:960:LEU:HD23	3:G:967:PHE:O	2.03	0.59
1:A:156:LEU:HB2	1:A:398:PHE:CZ	2.38	0.59
2:B:103:HIS:CD2	2:B:104:PHE:HD1	2.19	0.59
3:C:364:LYS:NZ	3:C:537:LEU:CD2	2.64	0.59
3:C:720:ARG:HH12	3:C:722:VAL:HG13	1.67	0.59
3:C:756:MET:O	3:C:761:VAL:HG23	2.03	0.59
4:D:446:SER:O	4:D:450:LYS:CG	2.50	0.59
2:F:45:LEU:HD12	2:F:101:ILE:CG2	2.32	0.59
3:G:562:ALA:C	3:G:563:LEU:HD23	2.23	0.59
3:G:579:PHE:N	3:G:579:PHE:CD1	2.68	0.59
3:G:722:VAL:HG12	3:G:723:ILE:N	2.17	0.59
4:H:198:CYS:HB2	4:H:199:PRO:HD2	1.85	0.59
4:H:210:PHE:O	4:H:210:PHE:HD1	1.85	0.59
4:H:270:VAL:HG12	4:H:271:ILE:N	2.18	0.59
2:B:49:ARG:HD2	2:B:49:ARG:O	2.02	0.59
3:C:599:LYS:O	3:C:602:ILE:HB	2.02	0.59
3:C:935:ASN:HD22	3:C:937:ASP:N	1.94	0.59
3:C:1131:SER:C	3:C:1133:PHE:H	2.05	0.59
3:C:1181:GLN:O	3:C:1204:LEU:HD22	2.03	0.59
2:F:438:GLY:O	2:F:439:PHE:HB3	2.02	0.59
3:G:756:MET:O	3:G:761:VAL:HG23	2.02	0.59
3:G:1388:LEU:O	3:G:1391:GLN:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1394:PHE:O	3:G:1398:ILE:HG12	2.02	0.59
4:H:342:VAL:HG13	4:H:343:LEU:O	2.02	0.59
1:A:44:GLU:HB2	1:A:84:TYR:HE2	1.67	0.59
2:B:258:THR:CG2	2:B:261:ASP:HB2	2.31	0.59
2:B:295:LEU:HG	2:B:330:GLU:HG2	1.84	0.59
2:B:355:LYS:HG2	3:C:1247:ARG:CZ	2.33	0.59
3:C:439:TYR:CD2	3:C:439:TYR:C	2.75	0.59
3:C:582:HIS:C	3:C:582:HIS:ND1	2.56	0.59
3:C:1221:ALA:O	3:C:1223:ILE:N	2.35	0.59
1:E:221:LYS:HB3	1:E:222:TYR:CE1	2.38	0.59
2:F:421:GLN:O	2:F:424:CYS:HB3	2.03	0.59
3:G:604:LYS:HD3	3:G:604:LYS:O	2.03	0.59
3:G:911:LEU:HD12	3:G:911:LEU:O	2.02	0.59
3:G:978:TYR:O	3:G:979:LYS:C	2.40	0.59
1:A:235:GLU:HG3	1:A:236:ASN:ND2	2.18	0.59
1:A:306:ASP:OD2	1:A:309:VAL:HG23	2.03	0.59
2:B:45:LEU:HD13	2:B:101:ILE:CG2	2.33	0.59
3:C:689:MET:C	3:C:690:ILE:HD13	2.23	0.59
3:C:751:PHE:N	3:C:751:PHE:HD1	2.00	0.59
3:C:864:LEU:C	3:C:866:PRO:HD2	2.22	0.59
3:C:981:ARG:HH11	3:C:981:ARG:HG3	1.68	0.59
3:C:1139:LEU:CD1	3:C:1154:HIS:HD2	2.16	0.59
4:D:202:LEU:CD2	4:D:439:PRO:HD3	2.32	0.59
1:E:47:PHE:HB3	1:E:49:LEU:HD21	1.84	0.59
2:F:173:LEU:HD23	2:F:173:LEU:O	2.03	0.59
3:G:598:PHE:CZ	3:G:738:LEU:HB3	2.38	0.59
3:G:682:ARG:HD3	3:G:682:ARG:C	2.23	0.59
3:G:1050:LEU:HD13	3:G:1226:PRO:HG2	1.85	0.59
3:G:1334:ILE:HG21	3:G:1440:PHE:CD1	2.37	0.59
3:G:1345:TRP:CE3	3:G:1358:ARG:HG3	2.38	0.59
4:H:334:ASP:HA	4:H:337:PHE:CE2	2.37	0.59
4:H:356:THR:OG1	4:H:358:ASP:OD2	2.20	0.59
4:H:382:LEU:HD11	4:H:389:VAL:CG2	2.28	0.59
2:B:363:THR:O	2:B:364:PRO:C	2.40	0.59
3:C:340:VAL:HG21	3:C:500:GLU:HG3	1.85	0.59
3:C:623:LEU:HD11	3:C:651:ILE:CD1	2.33	0.59
3:C:858:LEU:HD22	3:C:1007:MET:HE2	1.84	0.59
3:C:1116:LEU:HD21	3:C:1220:VAL:HG11	1.84	0.59
4:D:407:ARG:HH11	4:D:407:ARG:HG3	1.67	0.59
1:E:144:ARG:NH1	1:E:211:PHE:CD2	2.71	0.59
2:F:49:ARG:NH1	2:F:103:HIS:CB	2.57	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:957:TYR:O	3:G:960:LEU:N	2.31	0.59
3:G:957:TYR:C	3:G:959:CYS:N	2.53	0.59
3:G:1082:ARG:HG2	3:G:1082:ARG:O	2.02	0.59
3:G:1151:SER:HA	3:G:1189:SER:CB	2.33	0.59
4:H:171:VAL:O	4:H:172:THR:OG1	2.21	0.59
1:A:161:GLY:HA3	1:A:324:HIS:HD2	1.68	0.59
1:A:208:ILE:HD12	1:A:212:ILE:HG21	1.84	0.59
2:B:87:GLU:HG3	2:B:93:TYR:CE1	2.36	0.59
3:C:541:ALA:HB2	3:C:753:LEU:HD13	1.84	0.59
3:C:1139:LEU:CD1	3:C:1139:LEU:N	2.65	0.59
2:F:26:LEU:HB3	2:F:143:PHE:CE2	2.38	0.59
3:G:788:ASN:O	3:G:791:LEU:HB3	2.02	0.59
3:G:864:LEU:HD23	3:G:1004:ASP:CB	2.23	0.59
3:G:876:PHE:HZ	3:G:960:LEU:HD21	1.66	0.59
3:G:946:GLN:HE21	3:G:947:LYS:H	1.50	0.59
3:G:984:LEU:HD12	3:G:984:LEU:O	2.01	0.59
3:G:1284:PRO:HG2	3:G:1325:GLN:HE21	1.68	0.59
4:H:407:ARG:O	4:H:408:THR:C	2.40	0.59
4:H:435:TYR:HD2	4:H:518:MET:HE3	1.67	0.59
1:A:37:LYS:CG	1:A:38:ASN:H	2.08	0.58
1:A:154:HIS:HB3	1:A:402:LEU:HD11	1.85	0.58
2:B:289:ARG:HD3	2:B:401:TYR:CE2	2.38	0.58
2:B:316:ILE:N	2:B:445:ASN:HD21	2.00	0.58
2:B:325:GLN:OE1	2:B:325:GLN:HA	2.02	0.58
3:C:439:TYR:CE2	3:C:441:PHE:N	2.64	0.58
3:C:1019:PHE:C	3:C:1021:LEU:N	2.55	0.58
4:D:540:ILE:O	4:D:558:ASN:OD1	2.21	0.58
2:F:135:LEU:HB2	2:F:140:ILE:CG1	2.33	0.58
2:F:359:ARG:HH11	2:F:359:ARG:HG3	1.67	0.58
3:G:703:CYS:HA	3:G:704:LYS:HE2	1.85	0.58
3:G:868:ILE:HD13	3:G:872:PHE:HE2	1.67	0.58
4:H:164:ARG:HG2	4:H:164:ARG:NH1	2.14	0.58
4:H:476:LEU:CD1	4:H:509:TYR:HD2	2.16	0.58
1:A:43:ARG:NH1	1:A:81:GLY:O	2.36	0.58
2:B:368:LEU:HD21	2:B:372:LEU:CD1	2.34	0.58
3:C:388:TYR:CD1	3:C:802:ILE:HD12	2.37	0.58
3:C:545:LYS:HE3	3:C:723:ILE:HD13	1.83	0.58
3:C:1294:ASN:N	3:C:1398:ILE:HG22	2.18	0.58
4:D:383:ASP:OD1	4:D:385:LYS:HB2	2.03	0.58
4:D:467:VAL:O	4:D:467:VAL:HG12	2.02	0.58
1:E:403:ASP:HA	1:E:406:ARG:NH1	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:55:SER:HA	2:F:58:ASN:HD22	1.68	0.58
2:F:276:ILE:HA	2:F:279:LEU:CD1	2.33	0.58
2:F:376:PRO:HB3	2:F:382:HIS:CD2	2.37	0.58
3:G:558:ILE:O	3:G:559:ALA:CB	2.51	0.58
2:B:308:GLN:HA	2:B:365:PHE:CD2	2.38	0.58
3:C:751:PHE:CD1	3:C:751:PHE:N	2.70	0.58
3:C:1170:LYS:HG3	3:C:1171:ALA:N	2.17	0.58
3:C:1177:TYR:C	3:C:1177:TYR:CD1	2.77	0.58
4:D:509:TYR:HE1	4:D:514:PRO:HB3	1.69	0.58
1:E:68:LYS:O	1:E:72:LYS:HB2	2.02	0.58
2:F:246:LEU:O	2:F:250:LEU:HG	2.03	0.58
2:F:342:ASP:HA	2:F:346:SER:CB	2.33	0.58
3:G:857:LEU:HD21	3:G:859:LEU:HD21	1.85	0.58
3:G:869:ILE:HG21	3:G:911:LEU:HD21	1.84	0.58
4:H:382:LEU:CD1	4:H:389:VAL:HG21	2.29	0.58
1:A:87:ARG:HB3	1:A:89:ASN:HD21	1.68	0.58
3:C:653:VAL:HG12	3:C:654:CYS:SG	2.43	0.58
3:C:753:LEU:HD12	3:C:756:MET:CE	2.33	0.58
3:C:843:LEU:HD11	3:C:845:LEU:HD21	1.83	0.58
3:C:1342:TYR:HB3	4:D:519:ALA:CB	2.34	0.58
1:E:40:PHE:HB3	1:E:41:GLN:NE2	2.18	0.58
1:E:213:ARG:HG2	1:E:213:ARG:HH11	1.68	0.58
2:F:52:LEU:HB2	2:F:81:LEU:HD12	1.85	0.58
2:F:249:LEU:N	2:F:249:LEU:HD23	2.17	0.58
3:G:563:LEU:HD21	3:G:746:TRP:HE1	1.69	0.58
3:G:874:ILE:CD1	3:G:976:VAL:HG22	2.33	0.58
3:G:1015:LEU:O	3:G:1015:LEU:HD12	2.04	0.58
3:G:1281:CYS:O	3:G:1290:ASN:HB2	2.04	0.58
4:H:593:VAL:HG12	4:H:594:GLN:N	2.18	0.58
1:A:161:GLY:HA3	1:A:324:HIS:CD2	2.38	0.58
1:A:234:LEU:CD2	1:A:240:TRP:HA	2.34	0.58
3:C:543:SER:CB	3:C:749:ALA:HB2	2.34	0.58
3:C:876:PHE:CZ	3:C:960:LEU:CD2	2.87	0.58
1:E:9:LEU:CD2	1:E:13:LEU:HG	2.32	0.58
1:E:195:GLY:O	1:E:197:ASP:N	2.36	0.58
1:E:237:LYS:HE3	1:E:241:ASP:OD1	2.03	0.58
1:E:402:LEU:N	1:E:402:LEU:CD1	2.66	0.58
2:F:93:TYR:HD2	2:F:96:ARG:HB2	1.68	0.58
3:G:395:LYS:CB	3:G:408:ILE:HD11	2.34	0.58
3:G:652:ASN:HD22	3:G:670:MET:CE	2.15	0.58
3:G:786:GLU:O	3:G:789:GLU:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:MET:HG3	1:A:119:ARG:NH2	2.18	0.58
2:B:271:ILE:CD1	2:B:316:ILE:HD12	2.34	0.58
2:B:439:PHE:CZ	2:B:450:GLU:HG2	2.37	0.58
3:C:579:PHE:N	3:C:579:PHE:HD1	2.01	0.58
3:C:903:ASP:OD1	3:C:905:SER:HB3	2.04	0.58
3:C:1147:PRO:C	3:C:1149:LYS:H	2.06	0.58
3:C:1281:CYS:O	3:C:1290:ASN:HB2	2.04	0.58
3:C:1364:PHE:CE2	3:C:1368:GLY:HA2	2.39	0.58
4:D:232:LYS:HD2	4:D:240:PHE:HE2	1.68	0.58
4:D:538:LEU:HD12	4:D:539:ILE:H	1.66	0.58
1:E:18:ARG:HH11	1:E:18:ARG:HG3	1.69	0.58
1:E:343:ASP:OD1	1:E:345:PHE:N	2.37	0.58
1:E:353:ILE:HB	1:E:386:THR:CG2	2.29	0.58
2:F:137:LYS:CE	2:F:181:GLU:HA	2.34	0.58
3:G:760:ASN:C	3:G:763:PRO:HD2	2.24	0.58
3:G:857:LEU:CD2	3:G:859:LEU:HG	2.33	0.58
3:G:981:ARG:HH11	3:G:981:ARG:HG3	1.67	0.58
3:G:1026:LYS:HG3	3:G:1030:ASN:HD21	1.67	0.58
3:G:1148:ASP:O	3:G:1149:LYS:C	2.42	0.58
3:G:1241:LEU:HD12	3:G:1241:LEU:O	2.03	0.58
4:H:343:LEU:HD12	4:H:344:VAL:N	2.11	0.58
1:A:357:LEU:HD13	1:A:382:ASP:CG	2.24	0.58
1:A:381:ARG:O	1:A:384:LYS:HB2	2.04	0.58
2:B:255:HIS:CD2	2:B:256:SER:H	2.20	0.58
4:D:547:PHE:C	4:D:547:PHE:CD1	2.77	0.58
2:F:49:ARG:HB2	2:F:102:SER:CB	2.29	0.58
2:F:314:LYS:HG3	2:F:353:PHE:CE2	2.39	0.58
3:G:549:ASN:ND2	3:G:552:ASN:N	2.52	0.58
3:G:565:HIS:CE1	3:G:567:SER:O	2.57	0.58
4:H:435:TYR:CD2	4:H:518:MET:HE3	2.38	0.58
1:A:14:LYS:HD2	1:A:74:ASN:HD21	1.69	0.58
1:A:192:VAL:CG2	1:A:302:PHE:HD1	2.17	0.58
2:B:336:MET:HE3	2:B:345:TYR:HE2	1.69	0.58
3:C:872:PHE:CZ	3:C:979:LYS:HE2	2.39	0.58
3:C:1116:LEU:H	3:C:1116:LEU:HD12	1.69	0.58
4:D:292:LYS:CG	4:D:293:GLU:N	2.61	0.58
4:D:327:PHE:CZ	4:D:552:LEU:O	2.56	0.58
1:E:171:ASP:HB2	1:E:174:VAL:HG23	1.84	0.58
2:F:118:ARG:CB	2:F:118:ARG:NH1	2.67	0.58
2:F:387:ARG:HH12	3:G:995:ASN:CA	2.17	0.58
3:G:564:VAL:CG1	3:G:565:HIS:N	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:170:VAL:HG11	4:H:594:GLN:HE21	1.67	0.58
4:H:279:SER:O	4:H:280:SER:C	2.41	0.58
2:B:159:LYS:C	2:B:159:LYS:HD3	2.23	0.58
3:C:944:ILE:HG12	3:C:947:LYS:HZ1	1.69	0.58
3:C:954:ASN:H	3:C:954:ASN:ND2	2.01	0.58
3:C:1196:GLU:HG3	3:C:1197:GLN:H	1.68	0.58
3:C:1245:GLN:OE1	3:C:1248:VAL:HB	2.04	0.58
3:C:1250:HIS:CD2	3:C:1251:TYR:H	2.19	0.58
4:D:279:SER:O	4:D:280:SER:C	2.42	0.58
1:E:227:ALA:HB1	1:E:233:ILE:CD1	2.32	0.58
2:F:105:ILE:HG22	2:F:106:LEU:N	2.19	0.58
2:F:443:HIS:C	2:F:443:HIS:ND1	2.56	0.58
3:G:788:ASN:ND2	3:G:956:MET:HA	2.19	0.58
3:G:935:ASN:HD22	3:G:936:PRO:N	2.01	0.58
3:G:1141:LYS:NZ	3:G:1147:PRO:CD	2.67	0.58
4:H:420:LEU:HB3	4:H:422:PHE:HE2	1.68	0.58
3:C:789:GLU:C	3:C:793:LEU:HG	2.23	0.58
1:E:388:LEU:O	1:E:392:VAL:HG23	2.04	0.58
2:F:195:PHE:CD1	2:F:195:PHE:C	2.77	0.58
2:F:271:ILE:HG22	2:F:272:SER:O	2.04	0.58
3:G:564:VAL:O	3:G:579:PHE:HB2	2.04	0.58
3:G:700:LEU:C	3:G:701:ILE:CG2	2.72	0.58
4:H:435:TYR:CZ	4:H:459:PRO:HD3	2.39	0.58
1:A:46:SER:O	1:A:47:PHE:HD1	1.86	0.57
2:B:81:LEU:C	2:B:82:LYS:HG2	2.25	0.57
2:B:426:LYS:HA	2:B:429:GLU:CD	2.24	0.57
3:C:563:LEU:HD22	3:C:582:HIS:HB2	1.84	0.57
3:C:658:HIS:HB2	3:C:661:LYS:HE3	1.86	0.57
3:C:1092:GLY:O	3:C:1095:VAL:HG23	2.04	0.57
1:E:237:LYS:HZ2	1:E:256:GLN:NE2	2.01	0.57
3:G:921:ARG:HH22	3:G:945:ARG:CZ	2.17	0.57
3:G:1272:LYS:HD3	3:G:1273:TYR:CE1	2.39	0.57
4:H:253:LEU:HG	4:H:314:LEU:CD2	2.31	0.57
1:A:147:LYS:HB2	1:A:155:ARG:NH2	2.19	0.57
1:A:192:VAL:HG11	1:A:304:ARG:HE	1.69	0.57
2:B:202:LEU:HA	2:B:206:PHE:O	2.03	0.57
3:C:437:LYS:HD2	3:C:802:ILE:HD13	1.86	0.57
3:G:543:SER:OG	3:G:748:ASP:HB3	2.04	0.57
3:G:552:ASN:O	3:G:553:HIS:ND1	2.37	0.57
3:G:701:ILE:O	3:G:706:TYR:OH	2.21	0.57
3:G:702:ARG:C	3:G:703:CYS:SG	2.82	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:721:VAL:HG12	3:G:722:VAL:N	2.18	0.57
3:G:864:LEU:C	3:G:864:LEU:HD12	2.25	0.57
3:G:1296:PHE:HZ	3:G:1405:LEU:CD2	2.10	0.57
3:G:1363:GLN:O	3:G:1370:LEU:HB3	2.05	0.57
3:G:1422:PHE:N	3:G:1422:PHE:HD2	2.01	0.57
3:C:555:ASN:ND2	3:C:555:ASN:N	2.48	0.57
3:C:585:VAL:HG22	3:C:618:LEU:HG	1.87	0.57
3:C:700:LEU:C	3:C:701:ILE:HG22	2.23	0.57
3:C:843:LEU:CB	3:C:981:ARG:HG2	2.35	0.57
3:C:857:LEU:HD23	3:C:859:LEU:HG	1.83	0.57
3:C:1345:TRP:HZ3	3:C:1358:ARG:CB	2.16	0.57
1:E:223:PHE:HE2	1:E:269:TRP:CE2	2.22	0.57
1:E:396:GLU:HA	1:E:399:LEU:HG	1.86	0.57
2:F:286:PRO:HG2	2:F:386:PHE:HE2	1.63	0.57
3:G:498:TRP:O	3:G:499:LEU:HD23	2.04	0.57
3:G:600:GLU:HA	3:G:603:GLU:HG2	1.86	0.57
3:G:1157:VAL:HG21	3:G:1177:TYR:CB	2.34	0.57
3:G:1241:LEU:O	3:G:1243:PRO:HD2	2.03	0.57
4:H:292:LYS:CD	4:H:293:GLU:H	2.17	0.57
1:A:108:PHE:HD2	1:A:305:LEU:HD13	1.69	0.57
2:B:26:LEU:CD2	2:B:128:LEU:HD12	2.35	0.57
3:C:558:ILE:O	3:C:559:ALA:CB	2.51	0.57
3:C:565:HIS:CE1	3:C:567:SER:O	2.56	0.57
3:C:1133:PHE:HB3	3:C:1211:TYR:OH	2.05	0.57
4:D:171:VAL:O	4:D:172:THR:OG1	2.18	0.57
4:D:493:ASP:HB3	4:D:496:SER:HB2	1.85	0.57
2:F:121:ILE:HD11	2:F:227:SER:HA	1.84	0.57
3:G:861:PHE:HD1	3:G:864:LEU:CD2	2.17	0.57
3:G:1033:TYR:C	3:G:1034:LYS:HD2	2.25	0.57
3:G:1230:ILE:HA	3:G:1234:LEU:CD2	2.30	0.57
4:H:365:ALA:HA	4:H:368:ASN:ND2	2.16	0.57
2:B:50:VAL:HG23	2:B:106:LEU:HD13	1.87	0.57
2:B:253:LEU:O	2:B:254:SER:CB	2.51	0.57
3:C:730:ASN:ND2	3:C:730:ASN:N	2.10	0.57
3:C:1105:ARG:O	3:C:1109:VAL:HG23	2.05	0.57
3:C:1133:PHE:HB3	3:C:1211:TYR:CZ	2.38	0.57
3:C:1369:PRO:HG2	3:C:1379:LEU:H	1.70	0.57
4:D:243:LEU:HD13	4:D:284:ILE:HG12	1.85	0.57
4:D:253:LEU:CD1	4:D:314:LEU:HD22	2.35	0.57
1:E:13:LEU:HD22	1:E:17:TYR:CZ	2.39	0.57
2:F:46:ALA:HB1	2:F:106:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:425:SER:C	4:H:437:GLN:HE22	2.08	0.57
1:A:343:ASP:HB3	1:A:346:THR:OG1	2.05	0.57
3:C:618:LEU:HD23	3:C:619:LEU:N	2.20	0.57
3:C:697:ALA:O	3:C:701:ILE:HG23	2.04	0.57
3:C:1409:THR:HG23	3:C:1410:THR:N	2.13	0.57
4:D:241:THR:HG21	4:D:251:VAL:HG11	1.85	0.57
4:D:243:LEU:HB3	4:D:284:ILE:HD13	1.86	0.57
4:D:307:ILE:HG13	4:D:315:VAL:HG23	1.86	0.57
1:E:187:GLU:HB3	2:F:196:ARG:O	2.04	0.57
1:E:350:ILE:O	1:E:354:CYS:HB2	2.04	0.57
3:G:360:PHE:HE2	3:G:379:MET:HG3	1.70	0.57
3:G:716:LEU:HD21	3:G:755:ILE:HA	1.86	0.57
3:G:1022:GLY:O	3:G:1025:VAL:HB	2.05	0.57
4:H:351:THR:OG1	4:H:353:ASP:OD2	2.19	0.57
4:H:569:GLY:C	4:H:570:THR:HG22	2.24	0.57
1:A:43:ARG:NH1	1:A:80:ILE:CG2	2.65	0.57
2:B:73:LYS:O	2:B:76:SER:HB3	2.04	0.57
2:B:110:TYR:HD2	2:B:116:LEU:HB3	1.70	0.57
2:B:422:VAL:O	2:B:425:GLN:HB2	2.05	0.57
3:C:621:PHE:O	3:C:624:ALA:HB3	2.03	0.57
3:C:968:TYR:HH	3:C:970:LYS:HD3	1.69	0.57
4:D:381:PHE:HE2	4:D:440:PHE:HE2	1.53	0.57
4:D:476:LEU:CD1	4:D:502:ILE:HD11	2.15	0.57
1:E:9:LEU:HD23	1:E:13:LEU:HG	1.85	0.57
1:E:156:LEU:HD22	1:E:395:PHE:CE1	2.39	0.57
1:E:398:PHE:O	1:E:402:LEU:HD22	2.05	0.57
2:F:274:ASP:OD2	2:F:274:ASP:N	2.33	0.57
3:G:985:MET:O	3:G:988:LYS:N	2.38	0.57
3:G:1131:SER:O	3:G:1133:PHE:N	2.38	0.57
3:G:1294:ASN:HD22	3:G:1296:PHE:H	1.52	0.57
4:H:224:ILE:HD13	4:H:256:GLN:HB3	1.87	0.57
1:A:90:GLN:O	1:A:93:THR:HB	2.04	0.57
2:B:441:LEU:CD1	2:B:446:GLN:HG2	2.34	0.57
3:C:609:VAL:O	3:C:609:VAL:HG22	2.05	0.57
3:C:1328:ASN:O	3:C:1331:ILE:HB	2.04	0.57
4:D:243:LEU:O	4:D:284:ILE:HG21	2.04	0.57
4:D:406:LEU:HG	4:D:410:ILE:HD11	1.87	0.57
1:E:237:LYS:HZ2	1:E:256:GLN:CD	2.08	0.57
3:G:383:ILE:HG12	3:G:523:PRO:HG2	1.85	0.57
3:G:946:GLN:NE2	3:G:947:LYS:H	2.03	0.57
3:G:1095:VAL:HG13	3:G:1112:ILE:HD11	1.82	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:411:GLU:HA	4:H:414:ARG:HG3	1.87	0.57
2:B:62:SER:C	2:B:63:TYR:CD2	2.79	0.57
2:B:258:THR:HG22	2:B:366:SER:HB2	1.87	0.57
2:B:363:THR:O	2:B:363:THR:HG22	2.04	0.57
3:C:1146:TYR:CE2	3:C:1155:VAL:HG21	2.39	0.57
4:D:343:LEU:C	4:D:344:VAL:HG22	2.24	0.57
2:F:47:ILE:HD13	2:F:260:GLN:HE22	1.70	0.57
2:F:77:GLU:O	2:F:78:LEU:C	2.43	0.57
3:G:364:LYS:NZ	3:G:632:ASP:OD1	2.32	0.57
3:G:489:MET:HG3	3:G:797:TYR:CE2	2.40	0.57
3:G:653:VAL:HG12	3:G:654:CYS:N	2.20	0.57
3:G:746:TRP:O	3:G:747:LYS:C	2.42	0.57
3:G:858:LEU:CD1	3:G:1007:MET:HG3	2.15	0.57
4:H:255:GLY:HA3	4:H:272:LEU:HD21	1.87	0.57
4:H:358:ASP:HB2	4:H:359:PRO:CD	2.26	0.57
4:H:571:PHE:N	4:H:571:PHE:CD2	2.72	0.57
3:C:539:VAL:CG1	3:C:540:MET:N	2.68	0.57
3:C:740:TYR:O	3:C:740:TYR:HD1	1.85	0.57
3:C:1002:ASP:O	3:C:1004:ASP:N	2.34	0.57
4:D:389:VAL:HG22	4:D:394:LEU:HD11	1.86	0.57
4:D:411:GLU:C	4:D:413:THR:H	2.08	0.57
4:D:571:PHE:CE2	4:D:598:ILE:HD13	2.40	0.57
2:F:252:HIS:CD2	2:F:255:HIS:CD2	2.93	0.57
2:F:275:GLN:O	2:F:279:LEU:HG	2.04	0.57
2:F:360:THR:O	2:F:360:THR:OG1	2.23	0.57
3:G:549:ASN:HB3	3:G:554:GLN:HG3	1.87	0.57
3:G:784:ARG:HD2	3:G:784:ARG:N	2.19	0.57
3:G:902:PRO:HB2	3:G:906:LEU:HD13	1.86	0.57
4:H:227:LEU:CD1	4:H:231:LEU:HD21	2.35	0.57
4:H:229:SER:O	4:H:233:GLU:HG2	2.04	0.57
4:H:356:THR:HB	4:H:358:ASP:OD1	2.05	0.57
4:H:385:LYS:HD3	4:H:427:ARG:HH21	1.68	0.57
2:B:53:LEU:HD11	2:B:124:GLU:OE1	2.04	0.56
3:C:796:PHE:CE2	3:C:910:ILE:HG21	2.41	0.56
3:C:920:GLU:HG2	3:C:923:LYS:HZ1	1.70	0.56
4:D:312:ARG:NH1	4:D:312:ARG:HB2	2.20	0.56
1:E:154:HIS:N	1:E:154:HIS:CD2	2.73	0.56
2:F:71:GLN:O	2:F:75:GLU:HG2	2.04	0.56
2:F:419:HIS:HB3	2:F:422:VAL:HG21	1.86	0.56
3:G:389:PHE:HD2	3:G:476:VAL:HB	1.70	0.56
3:G:497:CYS:SG	3:G:499:LEU:CD2	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:522:LYS:H	3:G:525:LEU:CD1	2.18	0.56
3:G:607:VAL:O	3:G:609:VAL:N	2.30	0.56
3:G:1328:ASN:O	3:G:1331:ILE:HB	2.05	0.56
4:H:300:GLN:O	4:H:302:VAL:HG13	2.05	0.56
1:A:270:GLU:O	1:A:273:LYS:HB2	2.05	0.56
2:B:441:LEU:HD21	2:B:447:PHE:CD1	2.40	0.56
3:C:546:THR:HG22	3:C:556:GLU:O	2.05	0.56
3:C:596:TYR:O	3:C:597:ALA:HB3	2.05	0.56
3:C:689:MET:O	3:C:690:ILE:HD13	2.05	0.56
3:C:908:MET:HB2	3:C:913:ARG:HD3	1.85	0.56
3:C:947:LYS:O	3:C:950:LYS:HB3	2.04	0.56
3:C:1195:PRO:O	3:C:1198:LEU:HB3	2.06	0.56
3:C:1222:ARG:HH11	3:C:1222:ARG:CG	2.18	0.56
4:D:174:PHE:CD1	4:D:174:PHE:C	2.79	0.56
4:D:265:LEU:HD22	4:D:298:PRO:HD3	1.86	0.56
4:D:484:GLU:OE1	4:D:497:ARG:NH1	2.39	0.56
4:D:509:TYR:CE1	4:D:514:PRO:HB3	2.40	0.56
1:E:395:PHE:O	1:E:399:LEU:HG	2.05	0.56
3:G:1325:GLN:O	3:G:1328:ASN:HB2	2.04	0.56
4:H:182:TRP:HB3	4:H:341:MET:HE3	1.87	0.56
1:A:48:THR:CB	1:A:77:LYS:HB2	2.34	0.56
1:A:156:LEU:HD22	1:A:398:PHE:CD2	2.40	0.56
1:A:157:TRP:HB2	1:A:334:ILE:HB	1.86	0.56
2:B:29:TYR:HB3	2:B:103:HIS:CD2	2.40	0.56
2:B:103:HIS:HD2	2:B:104:PHE:CD1	2.24	0.56
2:B:362:TYR:O	2:B:362:TYR:CD2	2.54	0.56
3:C:365:VAL:HG13	3:C:376:CYS:SG	2.45	0.56
3:C:366:TRP:CH2	3:C:371:GLU:HA	2.40	0.56
3:C:636:GLY:HA2	3:C:752:ILE:HG21	1.87	0.56
3:C:652:ASN:HD22	3:C:670:MET:CG	2.18	0.56
3:C:746:TRP:O	3:C:749:ALA:N	2.38	0.56
3:C:769:THR:HG23	3:C:774:ASN:OD1	2.04	0.56
3:C:946:GLN:NE2	3:C:947:LYS:CG	2.69	0.56
3:C:957:TYR:O	3:C:960:LEU:N	2.33	0.56
3:C:981:ARG:NH1	3:C:981:ARG:HG3	2.20	0.56
3:C:1217:HIS:O	3:C:1218:PRO:C	2.43	0.56
4:D:156:THR:H	4:D:157:PRO:CD	2.15	0.56
1:E:41:GLN:NE2	1:E:41:GLN:N	2.54	0.56
1:E:95:LYS:NZ	3:G:881:ARG:H	2.03	0.56
1:E:113:THR:HG22	1:E:124:SER:O	2.04	0.56
1:E:162:ARG:NH2	1:E:326:LYS:HD3	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:87:GLU:HA	2:F:93:TYR:CE1	2.41	0.56
2:F:218:ILE:HG22	2:F:219:LEU:N	2.20	0.56
2:F:229:ALA:O	2:F:233:THR:HG23	2.04	0.56
2:F:309:TYR:CD1	2:F:313:LEU:HD21	2.40	0.56
3:G:579:PHE:N	3:G:579:PHE:HD1	2.02	0.56
3:G:594:PHE:CD1	3:G:594:PHE:N	2.72	0.56
3:G:752:ILE:HG22	3:G:752:ILE:O	2.05	0.56
3:G:977:THR:C	3:G:981:ARG:HH12	2.08	0.56
3:G:985:MET:O	3:G:986:HIS:C	2.44	0.56
3:G:1116:LEU:HA	3:G:1119:ILE:HG12	1.85	0.56
3:G:1224:CYS:HA	3:G:1227:ILE:HD13	1.87	0.56
3:G:1334:ILE:O	3:G:1338:ILE:HG13	2.05	0.56
3:G:1357:THR:HG23	3:G:1359:HIS:H	1.68	0.56
3:G:1416:LYS:HG3	3:G:1417:LEU:HD12	1.87	0.56
4:H:464:ILE:O	4:H:467:VAL:HB	2.05	0.56
4:H:476:LEU:HD13	4:H:509:TYR:CD2	2.39	0.56
2:B:438:GLY:O	2:B:439:PHE:HB3	2.04	0.56
3:C:549:ASN:ND2	3:C:552:ASN:O	2.38	0.56
3:C:790:PHE:O	3:C:791:LEU:C	2.42	0.56
4:D:196:LEU:HD12	4:D:197:GLY:H	1.70	0.56
2:F:22:TYR:HB2	2:F:84:SER:OG	2.05	0.56
2:F:159:LYS:HE3	2:F:178:LEU:CD2	2.36	0.56
3:G:570:LEU:HD13	3:G:766:LEU:CD2	2.33	0.56
3:G:621:PHE:O	3:G:624:ALA:HB3	2.06	0.56
4:H:407:ARG:O	4:H:409:ILE:N	2.39	0.56
2:B:170:SER:CB	2:B:171:PRO:HD2	2.34	0.56
3:C:382:ASN:ND2	3:C:521:LEU:HD22	2.20	0.56
3:G:596:TYR:O	3:G:597:ALA:HB3	2.05	0.56
3:G:650:ARG:NH1	3:G:650:ARG:CA	2.60	0.56
3:G:708:LEU:O	3:G:712:VAL:HG23	2.06	0.56
3:G:792:LEU:HD21	3:G:956:MET:HE2	1.86	0.56
3:G:863:SER:C	3:G:866:PRO:HD2	2.26	0.56
3:G:946:GLN:NE2	3:G:947:LYS:CG	2.69	0.56
3:G:982:GLU:HA	3:G:985:MET:CE	2.35	0.56
3:G:1155:VAL:O	3:G:1159:LEU:HD12	2.05	0.56
3:G:1320:LEU:HD13	3:G:1320:LEU:C	2.25	0.56
3:G:1334:ILE:CG2	3:G:1440:PHE:CE1	2.88	0.56
3:C:1131:SER:O	3:C:1133:PHE:N	2.37	0.56
3:C:1341:TYR:C	3:C:1341:TYR:CD2	2.79	0.56
4:D:357:TYR:CD1	4:D:357:TYR:N	2.74	0.56
4:D:382:LEU:HD11	4:D:389:VAL:CG2	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:596:VAL:HG12	4:D:597:ARG:O	2.05	0.56
1:E:171:ASP:HB2	1:E:174:VAL:CG2	2.35	0.56
1:E:248:PRO:HD2	1:E:292:LEU:HD11	1.87	0.56
3:G:375:SER:OG	3:G:630:ASP:OD2	2.18	0.56
3:G:491:ARG:O	3:G:492:LYS:HD2	2.05	0.56
3:G:767:GLN:O	3:G:771:ILE:HG13	2.05	0.56
3:G:1198:LEU:C	3:G:1198:LEU:HD12	2.26	0.56
4:H:212:LYS:C	4:H:214:PRO:HD2	2.26	0.56
4:H:446:SER:O	4:H:450:LYS:CG	2.51	0.56
2:B:313:LEU:O	2:B:316:ILE:HG12	2.06	0.56
3:C:564:VAL:CG1	3:C:565:HIS:N	2.67	0.56
3:C:762:LEU:HD23	3:C:762:LEU:H	1.70	0.56
3:C:953:ALA:O	3:C:956:MET:CB	2.53	0.56
2:F:94:GLU:HG3	2:F:95:PRO:HD3	1.87	0.56
2:F:158:GLU:CG	2:F:162:ARG:HH21	2.17	0.56
2:F:328:LYS:O	2:F:332:ILE:HG13	2.05	0.56
2:F:362:TYR:C	2:F:362:TYR:HD2	2.06	0.56
3:G:437:LYS:HG3	3:G:802:ILE:HD11	1.88	0.56
3:G:861:PHE:CD1	3:G:864:LEU:HD22	2.39	0.56
4:H:349:TYR:OH	4:H:377:LEU:HB3	2.06	0.56
1:A:234:LEU:HD22	1:A:240:TRP:HA	1.88	0.56
2:B:394:LEU:O	2:B:398:LEU:HG	2.06	0.56
3:C:746:TRP:O	3:C:747:LYS:C	2.43	0.56
3:C:872:PHE:O	3:C:873:ASN:C	2.43	0.56
1:E:241:ASP:HA	1:E:244:LEU:CD1	2.34	0.56
2:F:359:ARG:C	2:F:360:THR:HG22	2.25	0.56
3:G:635:VAL:HG22	3:G:635:VAL:O	2.05	0.56
3:G:843:LEU:HB3	3:G:981:ARG:HG2	1.87	0.56
4:H:363:LEU:HG	4:H:367:ILE:HD11	1.88	0.56
1:A:290:PRO:O	1:A:291:TRP:HB2	2.04	0.56
2:B:265:GLN:CG	2:B:266:GLY:N	2.69	0.56
2:B:425:GLN:O	2:B:429:GLU:HG3	2.06	0.56
3:C:598:PHE:O	3:C:599:LYS:C	2.44	0.56
3:C:707:HIS:O	3:C:708:LEU:C	2.42	0.56
3:C:728:ILE:HG22	3:C:729:GLN:N	2.20	0.56
3:C:1230:ILE:HG22	3:C:1235:ILE:HD11	1.88	0.56
3:C:1388:LEU:O	3:C:1391:GLN:N	2.36	0.56
4:D:346:CYS:CA	4:D:378:PHE:HB2	2.36	0.56
4:D:431:HIS:NE2	4:D:438:PRO:HD2	2.21	0.56
3:G:387:LEU:CD1	3:G:457:TYR:HE1	2.19	0.56
3:G:633:ILE:HG12	3:G:689:MET:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:661:LYS:C	3:G:663:GLY:N	2.57	0.56
3:G:790:PHE:O	3:G:793:LEU:HB2	2.05	0.56
2:B:292:HIS:CE1	2:B:296:ARG:HE	2.24	0.56
2:B:392:GLU:O	2:B:395:LYS:HB3	2.06	0.56
3:C:636:GLY:CA	3:C:752:ILE:HD13	2.35	0.56
3:C:998:VAL:O	3:C:998:VAL:HG12	2.05	0.56
3:C:1290:ASN:ND2	3:C:1311:SER:OG	2.39	0.56
3:C:1372:PRO:HA	3:C:1375:MET:HE1	1.88	0.56
3:C:1379:LEU:O	3:C:1380:GLN:NE2	2.38	0.56
4:D:157:PRO:HB3	4:D:354:SER:CB	2.35	0.56
4:D:213:LEU:HB2	4:D:214:PRO:HD3	1.87	0.56
1:E:48:THR:CB	1:E:77:LYS:HB2	2.36	0.56
1:E:82:ALA:CB	1:E:104:LYS:HB2	2.36	0.56
1:E:110:ILE:HG13	1:E:165:VAL:O	2.06	0.56
1:E:194:GLY:HA2	1:E:201:LYS:HD3	1.88	0.56
2:F:184:TYR:HD1	2:F:209:VAL:O	1.89	0.56
2:F:328:LYS:HZ2	2:F:341:PHE:HD2	1.50	0.56
3:G:598:PHE:O	3:G:599:LYS:C	2.42	0.56
3:G:725:MET:HA	3:G:728:ILE:CD1	2.33	0.56
3:G:790:PHE:O	3:G:791:LEU:C	2.43	0.56
3:G:1149:LYS:CD	3:G:1150:LYS:H	2.19	0.56
3:G:1376:LYS:HE2	3:G:1376:LYS:HA	1.87	0.56
4:H:435:TYR:HD1	4:H:436:PRO:N	2.03	0.56
1:A:169:VAL:CG1	1:A:174:VAL:HG11	2.36	0.55
1:A:208:ILE:HG23	1:A:212:ILE:HB	1.88	0.55
3:C:362:PHE:N	3:C:362:PHE:CD1	2.73	0.55
3:C:1019:PHE:O	3:C:1022:GLY:N	2.39	0.55
3:G:522:LYS:O	3:G:525:LEU:CG	2.52	0.55
3:G:636:GLY:CA	3:G:639:ILE:HD11	2.30	0.55
3:G:695:ILE:CD1	3:G:781:MET:O	2.50	0.55
3:G:720:ARG:O	3:G:720:ARG:HD3	2.06	0.55
3:G:935:ASN:HD22	3:G:937:ASP:H	1.49	0.55
3:G:1246:PHE:O	3:G:1249:HIS:HB2	2.07	0.55
4:H:253:LEU:N	4:H:253:LEU:HD22	2.21	0.55
1:A:128:CYS:HB2	1:A:129:PRO:CD	2.37	0.55
1:A:177:LEU:HB2	1:A:182:ARG:HE	1.69	0.55
1:A:209:HIS:CD2	1:A:210:PRO:HD2	2.41	0.55
1:A:214:LYS:O	1:A:217:ASN:HB2	2.06	0.55
2:B:37:ILE:CG2	2:B:41:GLU:HB3	2.36	0.55
2:B:74:LEU:HD23	2:B:130:PHE:CD1	2.42	0.55
3:C:602:ILE:HG22	3:C:603:GLU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:978:TYR:O	3:C:980:GLY:N	2.39	0.55
3:C:1184:SER:C	3:C:1186:LEU:H	2.09	0.55
3:C:1411:ASP:O	3:C:1415:ASP:CG	2.44	0.55
4:D:344:VAL:HG21	4:D:574:LEU:HD11	1.88	0.55
1:E:330:ILE:HG12	1:E:348:PRO:O	2.06	0.55
2:F:295:LEU:HG	2:F:330:GLU:HG2	1.88	0.55
3:G:803:VAL:CB	3:G:804:PRO:CD	2.79	0.55
3:G:1451:LEU:HD23	3:G:1454:LEU:HD23	1.87	0.55
4:H:156:THR:H	4:H:157:PRO:CD	2.15	0.55
4:H:182:TRP:CD2	4:H:573:ARG:HD2	2.41	0.55
4:H:328:TYR:O	4:H:330:PRO:HD3	2.05	0.55
4:H:435:TYR:CD1	4:H:436:PRO:CA	2.90	0.55
2:B:22:TYR:N	2:B:25:CYS:HB3	2.20	0.55
3:C:762:LEU:N	3:C:763:PRO:CD	2.70	0.55
3:C:774:ASN:HD21	3:C:779:THR:HG1	1.52	0.55
3:C:874:ILE:HD13	3:C:976:VAL:HG23	1.88	0.55
3:C:1332:MET:HE1	4:D:390:GLU:HA	1.88	0.55
4:D:567:VAL:CG1	4:D:568:GLY:N	2.67	0.55
1:E:49:LEU:HD13	1:E:50:LYS:NZ	2.22	0.55
1:E:69:GLU:O	1:E:73:MET:CG	2.49	0.55
1:E:106:LEU:CD2	1:E:185:ILE:HD13	2.36	0.55
2:F:401:TYR:HD2	2:F:427:TYR:HE2	1.54	0.55
3:G:764:LEU:O	3:G:768:ILE:HG13	2.06	0.55
3:G:978:TYR:O	3:G:980:GLY:N	2.39	0.55
4:H:357:TYR:O	4:H:360:LEU:CB	2.53	0.55
2:B:32:PRO:HA	2:B:104:PHE:HE2	1.68	0.55
3:C:682:ARG:HD3	3:C:683:ASN:ND2	2.20	0.55
3:C:1219:VAL:O	3:C:1220:VAL:C	2.45	0.55
3:C:1433:LEU:O	3:C:1436:THR:HB	2.06	0.55
4:D:236:LYS:HD2	4:D:236:LYS:O	2.06	0.55
1:E:144:ARG:HH21	1:E:144:ARG:HG2	1.71	0.55
1:E:255:LEU:HD21	1:E:272:LEU:HA	1.88	0.55
2:F:433:ASN:O	2:F:434:VAL:CG1	2.54	0.55
3:G:499:LEU:HD22	3:G:528:VAL:HG22	1.87	0.55
3:G:1251:TYR:CD1	3:G:1253:LYS:HB3	2.41	0.55
1:A:140:ARG:O	1:A:144:ARG:CB	2.46	0.55
1:A:162:ARG:NH2	1:A:326:LYS:HG2	2.21	0.55
1:A:192:VAL:HG22	1:A:302:PHE:HD1	1.70	0.55
2:B:23:PRO:HD2	2:B:25:CYS:CB	2.36	0.55
2:B:426:LYS:HA	2:B:429:GLU:OE1	2.05	0.55
3:C:416:GLU:OE1	3:C:471:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:66:LEU:HD11	1:E:70:MET:HE3	1.89	0.55
1:E:156:LEU:HB2	1:E:398:PHE:CZ	2.42	0.55
2:F:159:LYS:HD3	2:F:159:LYS:C	2.27	0.55
2:F:243:ASP:OD1	2:F:243:ASP:C	2.45	0.55
3:G:529:ILE:HG23	3:G:529:ILE:O	2.05	0.55
3:G:538:VAL:HB	3:G:632:ASP:OD1	2.06	0.55
3:G:1329:LYS:HE3	3:G:1333:ASP:OD2	2.06	0.55
4:H:355:ILE:O	4:H:357:TYR:CD1	2.60	0.55
1:A:139:ILE:HG21	1:A:339:VAL:HG13	1.88	0.55
1:A:273:LYS:O	1:A:277:SER:OG	2.23	0.55
2:B:38:SER:C	2:B:40:ILE:H	2.10	0.55
2:B:298:ASN:HD22	2:B:298:ASN:N	2.04	0.55
2:B:445:ASN:O	2:B:448:PHE:N	2.40	0.55
3:C:1348:CYS:SG	3:C:1353:CYS:CB	2.78	0.55
3:C:1389:TYR:CD2	3:C:1389:TYR:O	2.60	0.55
4:D:479:HIS:CD2	4:D:515:GLN:NE2	2.74	0.55
1:E:65:ASP:OD2	1:E:65:ASP:N	2.39	0.55
1:E:267:GLN:HG2	1:E:271:HIS:NE2	2.22	0.55
2:F:369:LYS:HG2	2:F:370:ILE:N	2.21	0.55
3:G:698:LYS:HG2	3:G:706:TYR:CD1	2.42	0.55
3:G:854:LYS:HD3	3:G:854:LYS:N	2.22	0.55
3:G:864:LEU:HD12	3:G:868:ILE:HG13	1.87	0.55
3:G:867:SER:HA	3:G:870:GLN:HE21	1.72	0.55
3:G:1186:LEU:HD21	3:G:1190:GLN:OE1	2.06	0.55
3:G:1215:GLN:C	3:G:1218:PRO:HD2	2.27	0.55
3:G:1399:PHE:CD2	3:G:1433:LEU:HB3	2.42	0.55
4:H:571:PHE:CZ	4:H:598:ILE:HD13	2.42	0.55
1:A:105:GLU:OE1	1:A:175:ARG:HG2	2.06	0.55
1:A:139:ILE:HG21	1:A:339:VAL:CG1	2.37	0.55
1:A:147:LYS:HB2	1:A:155:ARG:CZ	2.37	0.55
1:A:270:GLU:O	1:A:274:LYS:HG3	2.06	0.55
1:A:386:THR:HG22	1:A:387:SER:N	2.22	0.55
3:C:953:ALA:O	3:C:956:MET:HB2	2.07	0.55
3:C:1222:ARG:HG3	3:C:1223:ILE:HG13	1.89	0.55
3:C:1345:TRP:CE3	3:C:1358:ARG:HG3	2.42	0.55
1:E:107:VAL:HA	1:E:167:CYS:O	2.07	0.55
2:F:265:GLN:HG2	2:F:266:GLY:N	2.18	0.55
3:G:362:PHE:CD2	3:G:687:GLY:HA3	2.40	0.55
3:G:792:LEU:HD12	3:G:967:PHE:HD1	1.71	0.55
3:G:848:LYS:HZ3	3:G:997:GLU:CG	2.07	0.55
3:G:1216:ILE:C	3:G:1218:PRO:HD2	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:344:TYR:N	3:C:498:TRP:CE3	2.74	0.55
3:C:1154:HIS:CE1	3:C:1155:VAL:CG2	2.86	0.55
3:C:1273:TYR:CD2	3:C:1394:PHE:HD1	2.25	0.55
4:D:158:SER:OG	4:D:356:THR:HG21	2.06	0.55
4:D:212:LYS:C	4:D:214:PRO:HD2	2.27	0.55
4:D:376:ILE:HG12	4:D:421:VAL:CG1	2.37	0.55
2:F:77:GLU:OE1	2:F:77:GLU:HA	2.07	0.55
2:F:121:ILE:HG12	2:F:226:LEU:CD2	2.35	0.55
3:G:701:ILE:CG1	3:G:703:CYS:SG	2.95	0.55
3:G:953:ALA:O	3:G:956:MET:CB	2.47	0.55
3:G:1272:LYS:HD3	3:G:1273:TYR:HE1	1.71	0.55
4:H:256:GLN:N	4:H:272:LEU:HD11	2.22	0.55
1:A:157:TRP:HA	1:A:166:HIS:O	2.07	0.55
2:B:55:SER:O	2:B:59:LEU:HG	2.07	0.55
2:B:421:GLN:CG	6:B:601:SF4:S4	2.95	0.55
3:C:595:PRO:CG	3:C:732:TYR:O	2.50	0.55
3:C:763:PRO:O	3:C:764:LEU:C	2.45	0.55
3:C:857:LEU:HD21	3:C:859:LEU:HD21	1.88	0.55
3:C:857:LEU:HD23	3:C:857:LEU:O	2.07	0.55
1:E:134:LEU:HD21	1:E:226:TYR:HE2	1.72	0.55
3:G:365:VAL:HG13	3:G:376:CYS:SG	2.47	0.55
3:G:1371:CYS:CA	3:G:1379:LEU:HD21	2.35	0.55
3:G:1397:TYR:CD1	3:G:1397:TYR:C	2.79	0.55
4:H:185:ARG:HB2	4:H:188:ALA:HB3	1.88	0.55
4:H:213:LEU:HB2	4:H:214:PRO:HD3	1.87	0.55
4:H:371:ARG:NH1	4:H:416:SER:O	2.40	0.55
1:A:344:PRO:HD2	1:A:345:PHE:CE1	2.42	0.55
2:B:215:VAL:O	2:B:218:ILE:HB	2.07	0.55
3:C:977:THR:CB	3:C:981:ARG:HH12	2.16	0.55
3:C:1113:GLN:HG3	3:C:1238:TRP:CE2	2.41	0.55
3:C:1131:SER:HA	3:C:1134:GLU:HG3	1.88	0.55
3:C:1219:VAL:HA	3:C:1222:ARG:HD3	1.89	0.55
3:C:1340:LYS:O	3:C:1341:TYR:C	2.44	0.55
3:C:1369:PRO:O	3:C:1369:PRO:HG2	2.06	0.55
3:C:1437:ALA:O	3:C:1438:GLU:C	2.45	0.55
4:D:561:ARG:HB2	4:D:563:THR:O	2.06	0.55
2:F:137:LYS:HE2	2:F:181:GLU:HB3	1.88	0.55
2:F:371:ILE:HG22	2:F:372:LEU:CD2	2.37	0.55
2:F:393:LEU:HG	2:F:397:LYS:HE3	1.88	0.55
3:G:651:ILE:HG23	3:G:652:ASN:N	2.21	0.55
3:G:796:PHE:CZ	3:G:910:ILE:HG21	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:540:ILE:N	4:H:540:ILE:CD1	2.66	0.55
2:B:298:ASN:N	2:B:298:ASN:ND2	2.55	0.54
3:C:579:PHE:HD1	3:C:579:PHE:H	1.55	0.54
3:C:661:LYS:C	3:C:663:GLY:N	2.60	0.54
3:C:866:PRO:HG3	3:C:954:ASN:HA	1.89	0.54
3:C:1034:LYS:HB2	3:C:1035:LEU:HD23	1.89	0.54
4:D:443:SER:O	4:D:445:LEU:N	2.40	0.54
1:E:199:LYS:HZ1	1:E:242:LYS:HG3	1.72	0.54
1:E:219:ILE:O	1:E:223:PHE:HB2	2.07	0.54
2:F:385:PRO:HG2	2:F:386:PHE:N	2.19	0.54
3:G:598:PHE:CZ	3:G:738:LEU:HD23	2.42	0.54
3:G:1222:ARG:HG2	3:G:1223:ILE:CD1	2.33	0.54
3:G:1299:SER:HA	3:G:1303:MET:CE	2.36	0.54
4:H:176:LEU:HD11	4:H:591:ILE:HG22	1.89	0.54
4:H:435:TYR:CD1	4:H:436:PRO:N	2.75	0.54
4:H:574:LEU:HG	4:H:593:VAL:CG2	2.37	0.54
1:A:146:LEU:CB	1:A:155:ARG:HD3	2.36	0.54
2:B:103:HIS:CD2	2:B:104:PHE:CD1	2.95	0.54
2:B:164:GLN:HE22	2:B:176:LEU:HD11	1.72	0.54
3:C:619:LEU:HD12	3:C:651:ILE:HA	1.88	0.54
3:C:925:VAL:HG21	3:C:945:ARG:HD3	1.88	0.54
3:C:1231:ASP:O	3:C:1232:ALA:C	2.44	0.54
1:E:106:LEU:HD13	1:E:182:ARG:HD3	1.89	0.54
2:F:78:LEU:HD12	2:F:130:PHE:HE2	1.72	0.54
3:G:588:LYS:HD3	3:G:594:PHE:HE1	1.70	0.54
3:G:855:PHE:CE2	3:G:1045:LYS:HG3	2.42	0.54
3:G:1400:ASP:OD1	3:G:1403:CYS:HB2	2.07	0.54
4:H:294:TYR:CE1	4:H:486:SER:C	2.77	0.54
4:H:430:HIS:NE2	4:H:440:PHE:CE1	2.75	0.54
1:A:251:ILE:HD12	1:A:275:VAL:CG1	2.37	0.54
2:B:38:SER:C	2:B:40:ILE:N	2.60	0.54
2:B:49:ARG:NH1	2:B:103:HIS:HB2	2.22	0.54
2:B:406:GLY:O	2:B:409:SER:OG	2.22	0.54
3:C:585:VAL:HG11	3:C:621:PHE:HD2	1.71	0.54
3:C:1000:TYR:CG	3:C:1001:GLY:N	2.75	0.54
4:D:156:THR:HG22	4:D:159:GLN:HB2	1.89	0.54
4:D:495:PHE:HA	4:D:498:ILE:CG1	2.36	0.54
4:D:526:TYR:C	4:D:526:TYR:CD2	2.81	0.54
4:D:593:VAL:CG1	4:D:594:GLN:N	2.71	0.54
1:E:21:PHE:HE2	1:E:321:PHE:O	1.91	0.54
1:E:38:ASN:HB3	1:E:41:GLN:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:273:LYS:HD2	1:E:293:GLU:CD	2.27	0.54
3:G:378:VAL:HA	3:G:518:ALA:O	2.08	0.54
3:G:413:VAL:HA	3:G:472:THR:CB	2.38	0.54
3:G:707:HIS:O	3:G:708:LEU:C	2.44	0.54
3:G:855:PHE:HE2	3:G:1045:LYS:CG	2.20	0.54
3:G:1328:ASN:O	3:G:1331:ILE:N	2.41	0.54
4:H:593:VAL:CG1	4:H:594:GLN:N	2.71	0.54
1:A:142:ILE:O	1:A:146:LEU:HG	2.07	0.54
2:B:23:PRO:O	2:B:25:CYS:N	2.38	0.54
2:B:50:VAL:HG23	2:B:106:LEU:CD1	2.37	0.54
2:B:78:LEU:HD12	2:B:130:PHE:HE2	1.72	0.54
2:B:431:ILE:HG23	2:B:432:HIS:ND1	2.22	0.54
3:C:545:LYS:CE	3:C:723:ILE:HD13	2.38	0.54
3:C:553:HIS:ND1	3:C:554:GLN:N	2.56	0.54
3:C:869:ILE:HA	3:C:874:ILE:HD12	1.90	0.54
3:C:934:LEU:HD12	3:C:935:ASN:H	1.72	0.54
4:D:243:LEU:CD2	4:D:253:LEU:HD13	2.36	0.54
1:E:95:LYS:NZ	3:G:881:ARG:O	2.41	0.54
2:F:38:SER:C	2:F:40:ILE:N	2.60	0.54
2:F:136:PRO:C	2:F:138:ASP:H	2.11	0.54
2:F:358:LYS:HD3	3:G:1274:ARG:NH2	2.09	0.54
3:G:599:LYS:O	3:G:603:GLU:CG	2.54	0.54
3:G:746:TRP:O	3:G:749:ALA:N	2.40	0.54
3:G:774:ASN:ND2	3:G:775:ILE:H	2.04	0.54
3:G:774:ASN:O	3:G:775:ILE:HG13	2.08	0.54
3:G:1184:SER:C	3:G:1186:LEU:H	2.10	0.54
3:G:1299:SER:HA	3:G:1303:MET:HE2	1.87	0.54
4:H:431:HIS:O	4:H:433:PRO:HD3	2.07	0.54
4:H:493:ASP:O	4:H:494:ARG:C	2.45	0.54
4:H:532:PRO:CG	4:H:533:VAL:N	2.71	0.54
1:A:35:VAL:O	1:A:36:ILE:HD13	2.07	0.54
2:B:121:ILE:HD11	2:B:227:SER:N	2.23	0.54
3:C:1095:VAL:O	3:C:1096:ILE:C	2.46	0.54
4:D:414:ARG:HH11	4:D:414:ARG:HG3	1.72	0.54
4:D:493:ASP:O	4:D:494:ARG:C	2.44	0.54
1:E:174:VAL:O	1:E:177:LEU:HG	2.06	0.54
1:E:247:VAL:CG1	1:E:248:PRO:HD2	2.38	0.54
2:F:30:LEU:HG	2:F:31:GLN:HG3	1.90	0.54
2:F:137:LYS:NZ	2:F:181:GLU:HA	2.20	0.54
3:G:411:LYS:H	3:G:411:LYS:CD	1.96	0.54
3:G:578:PRO:HB2	3:G:753:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:851:PHE:CD1	3:G:1048:LEU:HD12	2.43	0.54
3:G:1010:THR:O	3:G:1011:ASN:CB	2.55	0.54
3:G:1035:LEU:O	3:G:1036:LEU:C	2.46	0.54
3:G:1253:LYS:O	3:G:1255:GLU:N	2.41	0.54
4:H:251:VAL:O	4:H:305:GLU:HA	2.06	0.54
1:A:45:PHE:O	1:A:58:GLN:HG2	2.07	0.54
1:A:210:PRO:HG2	2:B:201:TYR:CD2	2.42	0.54
3:C:365:VAL:CG2	3:C:376:CYS:HB2	2.33	0.54
3:C:409:SER:O	3:C:412:ASP:HB2	2.08	0.54
3:C:563:LEU:HD21	3:C:746:TRP:CD1	2.40	0.54
3:C:610:GLU:OE1	3:C:611:VAL:N	2.40	0.54
3:C:985:MET:O	3:C:988:LYS:N	2.41	0.54
3:C:1253:LYS:O	3:C:1255:GLU:N	2.41	0.54
3:C:1332:MET:CE	4:D:390:GLU:HA	2.37	0.54
1:E:112:MET:CB	1:E:163:ARG:HB2	2.37	0.54
1:E:213:ARG:HA	1:E:216:ILE:HD12	1.88	0.54
2:F:49:ARG:HH11	2:F:103:HIS:HB2	1.69	0.54
2:F:290:GLN:OE1	2:F:397:LYS:NZ	2.35	0.54
2:F:428:PHE:HZ	2:F:450:GLU:HB3	1.70	0.54
3:G:587:SER:OG	3:G:588:LYS:N	2.36	0.54
3:G:598:PHE:CE1	3:G:739:LEU:HD22	2.43	0.54
3:G:911:LEU:HD11	3:G:915:ILE:HD11	1.90	0.54
3:G:1135:ILE:HB	3:G:1177:TYR:CE1	2.43	0.54
3:G:1242:ASP:N	3:G:1243:PRO:HD2	2.19	0.54
3:G:1392:LEU:HB3	3:G:1441:LEU:HD21	1.90	0.54
4:H:382:LEU:C	4:H:382:LEU:HD12	2.27	0.54
2:B:57:GLU:O	2:B:61:VAL:HG23	2.07	0.54
2:B:355:LYS:HG2	3:C:1247:ARG:NH2	2.23	0.54
3:C:790:PHE:O	3:C:793:LEU:N	2.40	0.54
3:C:920:GLU:HA	3:C:923:LYS:CE	2.38	0.54
3:C:1014:ASN:ND2	3:C:1016:GLU:HB2	2.23	0.54
3:C:1148:ASP:O	3:C:1149:LYS:C	2.45	0.54
4:D:561:ARG:CG	4:D:564:LYS:HE2	2.37	0.54
1:E:182:ARG:O	1:E:186:VAL:HG23	2.08	0.54
2:F:237:LEU:O	2:F:240:VAL:HG12	2.07	0.54
2:F:443:HIS:HE1	2:F:445:ASN:H	1.55	0.54
3:G:543:SER:CB	3:G:749:ALA:HB2	2.35	0.54
3:G:636:GLY:HA2	3:G:752:ILE:HG21	1.89	0.54
3:G:1342:TYR:HB3	4:H:519:ALA:CB	2.36	0.54
3:G:1416:LYS:O	3:G:1420:GLN:HB2	2.08	0.54
4:H:227:LEU:O	4:H:231:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:547:PHE:CD1	4:H:547:PHE:C	2.80	0.54
2:B:150:GLN:C	2:B:151:PHE:CD1	2.81	0.54
2:B:264:THR:OG1	2:B:265:GLN:N	2.38	0.54
2:B:280:SER:N	2:B:284:PHE:HE1	2.06	0.54
2:B:355:LYS:NZ	3:C:1247:ARG:NH2	2.56	0.54
3:C:990:MET:O	3:C:993:LYS:HB3	2.08	0.54
3:C:1328:ASN:ND2	4:D:398:PHE:CZ	2.75	0.54
4:D:306:GLY:CA	4:D:317:THR:HG23	2.25	0.54
4:D:445:LEU:HB3	4:D:450:LYS:NZ	2.23	0.54
4:D:540:ILE:O	4:D:541:PRO:O	2.26	0.54
1:E:159:TYR:HD2	1:E:330:ILE:O	1.90	0.54
2:F:308:GLN:HE22	2:F:383:GLY:H	1.56	0.54
3:G:743:GLU:HG2	3:G:744:HIS:N	2.23	0.54
3:G:921:ARG:HH22	3:G:945:ARG:NE	2.05	0.54
3:G:1221:ALA:O	3:G:1224:CYS:N	2.37	0.54
1:A:108:PHE:HZ	1:A:185:ILE:CG2	2.21	0.54
1:A:136:THR:HA	1:A:139:ILE:HD12	1.88	0.54
1:A:157:TRP:HB3	1:A:334:ILE:CD1	2.37	0.54
1:A:202:VAL:CG1	1:A:298:LEU:HD12	2.38	0.54
1:A:393:LYS:NZ	1:A:396:GLU:HB3	2.23	0.54
2:B:135:LEU:O	2:B:140:ILE:HD11	2.08	0.54
2:B:449:CYS:O	2:B:452:GLN:N	2.35	0.54
3:C:790:PHE:HA	3:C:793:LEU:HD12	1.90	0.54
3:C:903:ASP:OD1	3:C:905:SER:N	2.38	0.54
3:C:1201:GLN:NE2	3:C:1203:ASN:OD1	2.38	0.54
3:C:1224:CYS:HA	3:C:1227:ILE:HD12	1.89	0.54
3:C:1389:TYR:CD2	3:C:1389:TYR:C	2.81	0.54
4:D:198:CYS:HB3	4:D:199:PRO:HD2	1.90	0.54
4:D:511:LEU:HD12	4:D:512:TYR:N	2.23	0.54
3:G:557:ILE:HG13	3:G:650:ARG:HG3	1.89	0.54
3:G:793:LEU:O	3:G:797:TYR:CD1	2.57	0.54
3:G:1431:ARG:O	3:G:1435:ASN:ND2	2.41	0.54
2:B:164:GLN:HE22	2:B:176:LEU:HD12	1.71	0.54
3:C:364:LYS:HZ1	3:C:538:VAL:H	1.56	0.54
3:C:750:LYS:O	3:C:753:LEU:N	2.39	0.54
3:C:764:LEU:O	3:C:768:ILE:HG13	2.08	0.54
3:C:1019:PHE:O	3:C:1021:LEU:N	2.40	0.54
3:C:1095:VAL:HG13	3:C:1112:ILE:HG23	1.89	0.54
3:C:1135:ILE:HG22	3:C:1136:ASN:N	2.23	0.54
3:C:1332:MET:HA	3:C:1335:ARG:HG3	1.89	0.54
4:D:411:GLU:C	4:D:413:THR:N	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:424:PRO:HG2	4:D:458:GLU:CB	2.38	0.54
4:D:571:PHE:HD2	4:D:571:PHE:H	1.56	0.54
1:E:47:PHE:CE1	1:E:78:ILE:HG23	2.43	0.54
1:E:51:ASP:O	1:E:52:ASP:CB	2.56	0.54
1:E:213:ARG:O	1:E:217:ASN:ND2	2.41	0.54
2:F:320:LEU:HA	2:F:353:PHE:CD1	2.43	0.54
2:F:324:LEU:O	2:F:328:LYS:HB2	2.08	0.54
3:G:344:TYR:CE2	3:G:497:CYS:HA	2.42	0.54
3:G:925:VAL:CG2	3:G:945:ARG:HD3	2.37	0.54
3:G:978:TYR:HA	3:G:981:ARG:NH2	2.23	0.54
3:G:982:GLU:HG2	3:G:983:ILE:N	2.22	0.54
3:G:1018:VAL:O	3:G:1021:LEU:HB3	2.08	0.54
3:G:1186:LEU:CD2	3:G:1190:GLN:OE1	2.56	0.54
4:H:257:ILE:HG22	4:H:258:GLY:N	2.20	0.54
1:A:82:ALA:HB1	1:A:103:GLU:O	2.07	0.53
1:A:259:PHE:CE2	1:A:271:HIS:HB3	2.41	0.53
2:B:114:GLU:HG3	2:B:114:GLU:O	2.07	0.53
3:C:388:TYR:O	3:C:476:VAL:HA	2.07	0.53
3:C:578:PRO:HB2	3:C:753:LEU:CD2	2.38	0.53
3:C:607:VAL:HG23	3:C:607:VAL:O	2.07	0.53
4:D:257:ILE:HG12	4:D:302:VAL:HG11	1.90	0.53
2:F:47:ILE:HD11	3:G:1266:GLN:HB3	1.88	0.53
2:F:101:ILE:O	2:F:102:SER:C	2.47	0.53
2:F:215:VAL:O	2:F:219:LEU:HG	2.08	0.53
2:F:341:PHE:CE1	2:F:345:TYR:HB2	2.43	0.53
2:F:445:ASN:O	2:F:448:PHE:N	2.41	0.53
4:H:170:VAL:HG13	4:H:594:GLN:HG3	1.90	0.53
4:H:443:SER:O	4:H:445:LEU:N	2.41	0.53
1:A:207:LYS:HZ2	2:B:172:SER:HA	1.69	0.53
1:A:228:LEU:HB3	1:A:266:LEU:HD23	1.89	0.53
2:B:293:LYS:HE2	2:B:297:GLU:HG3	1.90	0.53
3:C:345:TRP:C	3:C:346:LEU:HG	2.28	0.53
3:C:378:VAL:HA	3:C:518:ALA:O	2.08	0.53
3:C:413:VAL:HA	3:C:472:THR:CB	2.38	0.53
4:D:303:ILE:HG22	4:D:320:TYR:HD1	1.73	0.53
4:D:346:CYS:HA	4:D:378:PHE:HB2	1.89	0.53
4:D:469:PHE:CE2	4:D:537:VAL:HG11	2.42	0.53
2:F:370:ILE:O	2:F:370:ILE:HG22	2.07	0.53
3:G:857:LEU:HD12	3:G:1018:VAL:CG1	2.38	0.53
3:G:1000:TYR:CG	3:G:1001:GLY:N	2.76	0.53
3:G:1094:PHE:CZ	3:G:1115:ARG:HG2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1128:VAL:HG11	3:G:1133:PHE:CE2	2.43	0.53
3:G:1149:LYS:O	3:G:1151:SER:N	2.41	0.53
3:G:1198:LEU:CG	3:G:1199:GLN:N	2.71	0.53
3:G:1231:ASP:O	3:G:1232:ALA:C	2.46	0.53
4:H:576:LEU:O	4:H:577:ARG:HB2	2.08	0.53
1:A:208:ILE:HG23	1:A:212:ILE:CG2	2.37	0.53
2:B:97:ARG:O	2:B:98:ARG:C	2.45	0.53
3:C:858:LEU:HD12	3:C:1007:MET:N	2.23	0.53
3:C:1277:GLU:OE1	3:C:1336:ARG:NH2	2.41	0.53
3:G:380:VAL:HG12	3:G:523:PRO:HG3	1.91	0.53
3:G:862:ASN:ND2	3:G:1039:ASP:HB2	2.22	0.53
4:H:422:PHE:CD2	4:H:422:PHE:N	2.77	0.53
1:A:255:LEU:HD21	1:A:272:LEU:HA	1.90	0.53
1:A:336:LEU:HD23	1:A:339:VAL:HG22	1.89	0.53
2:B:309:TYR:CE2	2:B:313:LEU:HD11	2.43	0.53
3:C:549:ASN:OD1	3:C:552:ASN:C	2.47	0.53
3:C:625:LYS:HB3	3:C:629:ILE:HD11	1.90	0.53
3:C:637:HIS:CE1	3:C:708:LEU:H	2.26	0.53
3:C:851:PHE:HD2	3:C:1105:ARG:HG3	1.72	0.53
3:C:977:THR:O	3:C:981:ARG:NH1	2.42	0.53
3:C:1078:ASP:OD2	3:C:1078:ASP:N	2.41	0.53
3:C:1294:ASN:ND2	3:C:1296:PHE:H	2.03	0.53
3:C:1395:TYR:HA	3:C:1398:ILE:CD1	2.35	0.53
4:D:256:GLN:N	4:D:272:LEU:HD11	2.23	0.53
4:D:367:ILE:HG23	4:D:375:CYS:SG	2.48	0.53
2:F:265:GLN:CG	2:F:266:GLY:N	2.69	0.53
2:F:441:LEU:HD21	2:F:447:PHE:HD1	1.74	0.53
3:G:360:PHE:CE2	3:G:379:MET:HG3	2.42	0.53
3:G:409:SER:O	3:G:412:ASP:HB2	2.09	0.53
3:G:780:LEU:HD23	3:G:780:LEU:O	2.08	0.53
3:G:1219:VAL:O	3:G:1220:VAL:C	2.47	0.53
4:H:495:PHE:N	4:H:495:PHE:CD1	2.74	0.53
1:A:62:ASN:OD1	1:A:64:SER:HB3	2.09	0.53
1:A:204:LEU:HB3	1:A:208:ILE:HD11	1.90	0.53
2:B:265:GLN:HG2	2:B:266:GLY:N	2.17	0.53
2:B:337:ASP:OD1	2:B:339:ASP:N	2.40	0.53
2:B:428:PHE:HD2	2:B:437:CYS:HB2	1.73	0.53
2:F:300:HIS:CG	2:F:301:LEU:N	2.76	0.53
3:G:479:THR:OG1	3:G:480:ASN:N	2.42	0.53
3:G:489:MET:HG3	3:G:797:TYR:CZ	2.44	0.53
3:G:543:SER:OG	3:G:748:ASP:CB	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:589:PRO:HG3	3:G:592:CYS:CB	2.39	0.53
3:G:664:ARG:HG3	3:G:688:ARG:HE	1.73	0.53
3:G:1019:PHE:C	3:G:1021:LEU:N	2.60	0.53
3:G:1376:LYS:O	3:G:1376:LYS:HD3	2.07	0.53
3:G:1389:TYR:OH	3:G:1447:SER:HB2	2.09	0.53
4:H:170:VAL:HG13	4:H:594:GLN:CG	2.38	0.53
4:H:403:LYS:NZ	4:H:442:TYR:HD1	2.07	0.53
4:H:430:HIS:CD2	4:H:440:PHE:HE1	2.26	0.53
1:A:393:LYS:HG3	1:A:397:HIS:NE2	2.23	0.53
3:C:1116:LEU:HA	3:C:1119:ILE:HG13	1.90	0.53
4:D:251:VAL:O	4:D:305:GLU:HA	2.09	0.53
1:E:140:ARG:O	1:E:144:ARG:CB	2.54	0.53
3:G:598:PHE:CE1	3:G:739:LEU:CD2	2.92	0.53
3:G:880:GLN:O	3:G:899:PRO:HB3	2.08	0.53
3:G:1113:GLN:HG3	3:G:1238:TRP:CE2	2.43	0.53
4:H:196:LEU:HG	4:H:197:GLY:N	2.24	0.53
4:H:346:CYS:HA	4:H:378:PHE:HB2	1.91	0.53
4:H:548:VAL:CG2	4:H:557:VAL:HG22	2.34	0.53
1:A:43:ARG:HD3	1:A:44:GLU:N	2.24	0.53
1:A:294:TRP:HD1	1:A:297:MET:SD	2.32	0.53
3:C:695:ILE:CD1	3:C:781:MET:O	2.55	0.53
3:C:867:SER:O	3:C:870:GLN:HB2	2.09	0.53
3:C:1025:VAL:O	3:C:1026:LYS:C	2.47	0.53
3:C:1147:PRO:C	3:C:1149:LYS:N	2.62	0.53
3:C:1231:ASP:OD1	3:C:1233:VAL:N	2.42	0.53
3:C:1307:LEU:HB3	3:C:1320:LEU:CD2	2.37	0.53
1:E:111:ASP:OD1	1:E:163:ARG:HG3	2.09	0.53
2:F:78:LEU:HD12	2:F:130:PHE:CE2	2.44	0.53
2:F:248:PRO:C	2:F:249:LEU:HD23	2.29	0.53
3:G:588:LYS:HA	3:G:732:TYR:OH	2.09	0.53
3:G:668:SER:HB2	3:G:669:ASN:ND2	2.23	0.53
3:G:935:ASN:HD21	3:G:937:ASP:CB	2.08	0.53
4:H:253:LEU:CD2	4:H:253:LEU:H	2.21	0.53
4:H:411:GLU:C	4:H:413:THR:H	2.12	0.53
4:H:510:PRO:O	4:H:511:LEU:C	2.47	0.53
4:H:569:GLY:C	4:H:570:THR:CG2	2.77	0.53
2:B:67:THR:O	2:B:71:GLN:HG2	2.09	0.53
3:C:363:GLY:O	3:C:364:LYS:CG	2.56	0.53
3:C:539:VAL:HG21	3:C:568:PHE:CD2	2.44	0.53
3:C:693:VAL:HG11	3:C:755:ILE:CG2	2.39	0.53
3:C:751:PHE:HD1	3:C:751:PHE:H	1.54	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1307:LEU:HD22	3:C:1430:TYR:HE2	1.67	0.53
2:F:22:TYR:N	2:F:84:SER:OG	2.41	0.53
2:F:23:PRO:O	2:F:25:CYS:N	2.36	0.53
2:F:387:ARG:HH12	3:G:995:ASN:HA	1.74	0.53
3:G:513:TRP:CZ3	3:G:661:LYS:HG2	2.43	0.53
3:G:631:PRO:CA	3:G:688:ARG:HH12	2.21	0.53
3:G:856:ILE:HG21	3:G:999:ILE:HD11	1.91	0.53
4:H:503:LEU:HD21	4:H:534:THR:HG23	1.90	0.53
1:A:106:LEU:HB3	1:A:169:VAL:CB	2.36	0.53
1:A:137:MET:O	1:A:141:ILE:CG1	2.57	0.53
1:A:192:VAL:CG2	1:A:302:PHE:CD1	2.92	0.53
1:A:313:ILE:O	1:A:313:ILE:HG12	2.09	0.53
2:B:132:PHE:HE1	2:B:140:ILE:HG23	1.74	0.53
2:B:427:TYR:CD1	2:B:427:TYR:C	2.82	0.53
3:C:616:ARG:O	3:C:616:ARG:HG2	2.09	0.53
3:C:1362:LEU:N	3:C:1362:LEU:CD1	2.71	0.53
4:D:218:GLU:OE1	4:D:218:GLU:HA	2.09	0.53
4:D:307:ILE:O	4:D:315:VAL:CG2	2.57	0.53
4:D:357:TYR:O	4:D:360:LEU:CB	2.57	0.53
1:E:60:PHE:HB3	1:E:65:ASP:CB	2.38	0.53
2:F:178:LEU:HD11	2:F:183:ILE:HD11	1.90	0.53
3:G:539:VAL:CG1	3:G:540:MET:N	2.71	0.53
4:H:357:TYR:CD1	4:H:357:TYR:N	2.76	0.53
1:A:349:THR:HG22	1:A:351:SER:N	2.23	0.53
2:B:77:GLU:O	2:B:78:LEU:C	2.47	0.53
3:C:539:VAL:HG21	3:C:568:PHE:HD2	1.72	0.53
3:C:724:PRO:HB2	3:C:726:GLU:CG	2.27	0.53
3:C:747:LYS:O	3:C:750:LYS:HB3	2.08	0.53
3:C:849:VAL:HG13	3:C:1226:PRO:HB3	1.91	0.53
3:C:858:LEU:HD12	3:C:1007:MET:CA	2.38	0.53
3:C:1120:GLY:O	3:C:1123:VAL:HB	2.09	0.53
3:C:1370:LEU:O	3:C:1371:CYS:C	2.47	0.53
3:C:1397:TYR:CD1	3:C:1397:TYR:C	2.81	0.53
3:C:1430:TYR:O	3:C:1432:LYS:N	2.42	0.53
4:D:376:ILE:HG12	4:D:421:VAL:HG11	1.91	0.53
1:E:26:TYR:CZ	1:E:80:ILE:HD11	2.44	0.53
1:E:41:GLN:NE2	1:E:41:GLN:H	2.06	0.53
1:E:55:ILE:CD1	1:E:56:ARG:H	2.21	0.53
1:E:112:MET:SD	1:E:119:ARG:CZ	2.97	0.53
1:E:204:LEU:HD22	1:E:208:ILE:CD1	2.39	0.53
2:F:158:GLU:CD	2:F:162:ARG:HH21	2.12	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:618:LEU:HD23	3:G:619:LEU:HD23	1.90	0.53
3:G:745:THR:CG2	3:G:746:TRP:N	2.70	0.53
3:G:872:PHE:O	3:G:873:ASN:C	2.46	0.53
3:G:1355:ASN:C	3:G:1355:ASN:OD1	2.46	0.53
4:H:174:PHE:CD1	4:H:175:GLY:N	2.77	0.53
4:H:539:ILE:O	4:H:541:PRO:HD3	2.08	0.53
1:A:114:ASP:O	1:A:304:ARG:NH1	2.42	0.52
1:A:135:MET:CE	1:A:164:GLY:HA2	2.38	0.52
2:B:154:ILE:HG22	2:B:158:GLU:OE1	2.09	0.52
3:C:1151:SER:HA	3:C:1189:SER:HB3	1.90	0.52
3:C:1372:PRO:HA	3:C:1375:MET:HE2	1.90	0.52
1:E:158:VAL:HG12	1:E:159:TYR:N	2.25	0.52
2:F:83:PHE:HE2	2:F:99:ASP:HA	1.74	0.52
2:F:240:VAL:C	2:F:242:SER:N	2.61	0.52
2:F:371:ILE:HD11	2:F:384:CYS:SG	2.49	0.52
3:G:637:HIS:CE1	3:G:708:LEU:H	2.26	0.52
3:G:868:ILE:HG23	3:G:872:PHE:CD2	2.44	0.52
3:G:1221:ALA:C	3:G:1223:ILE:N	2.61	0.52
3:G:1364:PHE:HB2	4:H:217:ARG:NE	2.15	0.52
1:A:174:VAL:HA	1:A:177:LEU:HG	1.90	0.52
1:A:222:TYR:N	1:A:222:TYR:CD1	2.77	0.52
2:B:132:PHE:CE1	2:B:140:ILE:HG23	2.43	0.52
2:B:355:LYS:NZ	3:C:1247:ARG:HH22	2.07	0.52
2:B:433:ASN:C	2:B:434:VAL:CG1	2.78	0.52
3:C:437:LYS:HD3	3:C:800:ASN:HD22	1.74	0.52
3:C:1400:ASP:HA	3:C:1434:LYS:CD	2.38	0.52
4:D:427:ARG:HH12	4:D:561:ARG:HH12	1.57	0.52
4:D:430:HIS:NE2	4:D:440:PHE:HE1	2.07	0.52
4:D:561:ARG:H	4:D:564:LYS:HE2	1.74	0.52
3:G:1006:ILE:O	3:G:1006:ILE:HG22	2.09	0.52
2:B:26:LEU:HB3	2:B:143:PHE:CE2	2.45	0.52
2:B:27:GLN:NE2	2:B:29:TYR:CD2	2.78	0.52
2:B:47:ILE:HG21	2:B:260:GLN:NE2	2.24	0.52
2:B:136:PRO:C	2:B:138:ASP:H	2.11	0.52
3:C:395:LYS:CA	3:C:408:ILE:HD11	2.39	0.52
3:C:612:ALA:HB1	3:C:617:THR:CB	2.38	0.52
3:C:1081:ARG:HB3	3:C:1083:ASP:OD1	2.09	0.52
3:C:1216:ILE:N	3:C:1216:ILE:CD1	2.72	0.52
1:E:49:LEU:HB3	1:E:50:LYS:CE	2.39	0.52
1:E:334:ILE:HG12	1:E:342:PHE:CE2	2.44	0.52
1:E:401:ASN:N	1:E:401:ASN:HD22	2.06	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:307:MET:O	2:F:311:LEU:HG	2.09	0.52
3:G:437:LYS:CG	3:G:802:ILE:HD11	2.40	0.52
3:G:1025:VAL:O	3:G:1026:LYS:C	2.47	0.52
3:G:1141:LYS:HB2	3:G:1146:TYR:CD1	2.44	0.52
3:G:1142:ASP:O	3:G:1145:ASP:N	2.42	0.52
3:G:1211:TYR:CA	3:G:1215:GLN:HB2	2.37	0.52
4:H:577:ARG:O	4:H:591:ILE:HD11	2.10	0.52
1:A:112:MET:CB	1:A:163:ARG:HB2	2.39	0.52
1:A:334:ILE:HG12	1:A:342:PHE:CE1	2.43	0.52
3:C:651:ILE:HD11	3:C:659:TRP:HA	1.90	0.52
3:C:659:TRP:N	3:C:659:TRP:CD1	2.77	0.52
3:C:716:LEU:HG	3:C:755:ILE:CG1	2.40	0.52
3:C:1221:ALA:C	3:C:1223:ILE:N	2.63	0.52
3:C:1334:ILE:HD13	3:C:1392:LEU:HD22	1.91	0.52
3:G:635:VAL:HG11	3:G:756:MET:CE	2.39	0.52
3:G:1141:LYS:HB2	3:G:1146:TYR:CE1	2.44	0.52
3:G:1158:ALA:CA	3:G:1161:ILE:HD12	2.37	0.52
4:H:271:ILE:HD12	4:H:272:LEU:C	2.29	0.52
1:A:13:LEU:HD22	1:A:17:TYR:CE2	2.43	0.52
2:B:285:PRO:HB2	2:B:286:PRO:CD	2.40	0.52
2:B:387:ARG:HA	2:B:420:TYR:CD1	2.43	0.52
2:B:410:GLN:O	2:B:414:LEU:HG	2.08	0.52
3:C:382:ASN:HD21	3:C:521:LEU:HD22	1.75	0.52
3:C:1074:LEU:HD21	3:C:1100:LEU:HD11	1.91	0.52
3:C:1097:GLY:O	3:C:1100:LEU:N	2.42	0.52
3:C:1431:ARG:O	3:C:1435:ASN:CG	2.48	0.52
4:D:202:LEU:HD23	4:D:202:LEU:C	2.30	0.52
1:E:56:ARG:HD3	1:E:57:TYR:HE2	1.73	0.52
1:E:156:LEU:CD2	1:E:395:PHE:HE1	2.22	0.52
1:E:349:THR:CG2	1:E:351:SER:HB3	2.40	0.52
2:F:87:GLU:HB3	2:F:93:TYR:HE1	1.75	0.52
2:F:265:GLN:HB2	2:F:362:TYR:CZ	2.44	0.52
3:G:543:SER:HB2	3:G:749:ALA:CB	2.37	0.52
3:G:549:ASN:OD1	3:G:552:ASN:C	2.48	0.52
3:G:792:LEU:HD21	3:G:956:MET:CE	2.39	0.52
3:G:1083:ASP:N	3:G:1083:ASP:OD1	2.43	0.52
3:G:1216:ILE:H	3:G:1216:ILE:CD1	2.23	0.52
3:G:1304:GLU:OE2	3:G:1309:ARG:HD2	2.10	0.52
3:G:1363:GLN:CD	3:G:1370:LEU:HD23	2.30	0.52
4:H:157:PRO:HB3	4:H:354:SER:CB	2.36	0.52
1:A:27:TYR:CB	1:A:63:GLN:HG3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:LEU:O	1:A:169:VAL:HG23	2.09	0.52
1:A:174:VAL:HG13	1:A:177:LEU:HD11	1.91	0.52
1:A:228:LEU:HD21	1:A:233:ILE:HD11	1.92	0.52
1:A:233:ILE:HD12	1:A:243:ILE:CD1	2.39	0.52
2:B:358:LYS:O	2:B:359:ARG:CB	2.58	0.52
2:B:385:PRO:O	2:B:387:ARG:N	2.43	0.52
3:C:859:LEU:HB3	3:C:1038:ILE:HD11	1.92	0.52
3:C:864:LEU:C	3:C:866:PRO:CD	2.78	0.52
3:C:1035:LEU:O	3:C:1036:LEU:C	2.47	0.52
3:C:1116:LEU:HD12	3:C:1116:LEU:N	2.23	0.52
3:C:1340:LYS:HA	3:C:1343:ASP:OD2	2.09	0.52
4:D:270:VAL:CG1	4:D:271:ILE:N	2.73	0.52
4:D:414:ARG:NH1	4:D:414:ARG:HG3	2.24	0.52
4:D:574:LEU:N	4:D:574:LEU:CD1	2.70	0.52
4:D:578:ARG:NH2	4:D:589:PRO:HG3	2.25	0.52
3:G:790:PHE:O	3:G:793:LEU:N	2.43	0.52
4:H:575:TYR:C	4:H:576:LEU:HD23	2.29	0.52
1:A:330:ILE:O	1:A:332:VAL:HG13	2.10	0.52
2:B:136:PRO:HG2	2:B:139:LYS:HG2	1.92	0.52
2:B:295:LEU:HD11	2:B:330:GLU:HG3	1.91	0.52
2:B:355:LYS:HZ2	3:C:1247:ARG:HH22	1.58	0.52
3:C:389:PHE:CD2	3:C:476:VAL:HB	2.44	0.52
3:C:712:VAL:HG12	3:C:718:THR:O	2.09	0.52
3:C:1345:TRP:CZ3	3:C:1358:ARG:HG3	2.45	0.52
4:D:431:HIS:CE1	4:D:438:PRO:HG2	2.45	0.52
1:E:196:GLN:H	1:E:196:GLN:CD	2.13	0.52
3:G:433:LYS:O	3:G:454:GLU:HB3	2.09	0.52
3:G:468:LEU:HG	3:G:473:PHE:CZ	2.45	0.52
3:G:586:VAL:HB	3:G:742:LEU:HD21	1.92	0.52
3:G:796:PHE:CE1	3:G:910:ILE:HG12	2.45	0.52
3:G:1366:ARG:HH11	3:G:1366:ARG:HG3	1.75	0.52
1:A:21:PHE:HE2	1:A:321:PHE:O	1.93	0.52
1:A:177:LEU:H	1:A:182:ARG:HH21	1.55	0.52
1:A:393:LYS:HE3	1:A:396:GLU:CB	2.35	0.52
2:B:358:LYS:O	2:B:359:ARG:HB2	2.10	0.52
2:B:368:LEU:O	2:B:368:LEU:HD23	2.10	0.52
3:C:876:PHE:HB3	3:C:881:ARG:HH22	1.75	0.52
3:C:1247:ARG:O	3:C:1250:HIS:HB3	2.10	0.52
4:D:213:LEU:N	4:D:214:PRO:CD	2.72	0.52
4:D:224:ILE:HG23	4:D:301:VAL:HG13	1.90	0.52
1:E:290:PRO:O	1:E:291:TRP:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:38:SER:C	2:F:40:ILE:H	2.12	0.52
3:G:468:LEU:HG	3:G:473:PHE:CE2	2.45	0.52
3:G:1132:GLN:C	3:G:1133:PHE:HD2	2.13	0.52
3:G:1385:ASP:OD1	3:G:1385:ASP:N	2.41	0.52
3:G:1388:LEU:HD21	4:H:209:MET:CE	2.40	0.52
4:H:297:PHE:HD1	4:H:298:PRO:O	1.92	0.52
1:A:95:LYS:HE3	3:C:880:GLN:HA	1.91	0.52
2:B:37:ILE:O	3:C:1449:VAL:HG23	2.10	0.52
2:B:105:ILE:CG2	2:B:106:LEU:N	2.72	0.52
2:B:410:GLN:O	2:B:413:ASP:HB2	2.08	0.52
3:C:363:GLY:O	3:C:364:LYS:HG3	2.10	0.52
3:C:631:PRO:CD	3:C:688:ARG:NH1	2.73	0.52
3:C:858:LEU:HD13	3:C:1007:MET:HE3	1.92	0.52
3:C:911:LEU:HD12	3:C:911:LEU:O	2.10	0.52
3:C:935:ASN:ND2	3:C:937:ASP:HB2	2.02	0.52
3:C:1139:LEU:HD11	3:C:1154:HIS:HD2	1.75	0.52
3:C:1395:TYR:HA	3:C:1398:ILE:CG1	2.39	0.52
4:D:469:PHE:CZ	4:D:574:LEU:HD22	2.43	0.52
1:E:13:LEU:HD13	1:E:75:PRO:O	2.10	0.52
1:E:222:TYR:CD1	1:E:222:TYR:N	2.77	0.52
2:F:77:GLU:C	2:F:79:ARG:N	2.61	0.52
3:G:381:LYS:O	3:G:523:PRO:HD3	2.10	0.52
3:G:464:LEU:HD13	3:G:468:LEU:HD22	1.92	0.52
3:G:788:ASN:HB3	3:G:956:MET:CE	2.40	0.52
3:G:875:CYS:N	3:G:878:THR:OG1	2.43	0.52
3:G:1370:LEU:O	3:G:1371:CYS:C	2.48	0.52
1:A:135:MET:SD	1:A:165:VAL:HG22	2.50	0.52
1:A:264:ASN:O	1:A:268:ARG:HG3	2.10	0.52
2:B:137:LYS:O	2:B:141:GLN:HG3	2.09	0.52
3:C:364:LYS:CE	3:C:632:ASP:OD1	2.57	0.52
3:C:458:SER:OG	3:C:461:MET:HG3	2.10	0.52
3:C:864:LEU:O	3:C:868:ILE:HG13	2.10	0.52
3:C:1047:LEU:CG	3:C:1049:LEU:HD22	2.33	0.52
3:C:1094:PHE:CD1	3:C:1094:PHE:C	2.83	0.52
3:C:1151:SER:C	3:C:1189:SER:HB3	2.30	0.52
3:C:1221:ALA:O	3:C:1224:CYS:N	2.42	0.52
3:C:1230:ILE:HD12	3:C:1238:TRP:CH2	2.45	0.52
3:C:1268:THR:OG1	3:C:1271:GLU:HG2	2.10	0.52
3:C:1422:PHE:N	3:C:1422:PHE:CD2	2.78	0.52
3:C:1427:LEU:HB3	3:C:1431:ARG:NH2	2.23	0.52
4:D:510:PRO:HG2	4:D:511:LEU:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:49:LEU:HD13	1:E:50:LYS:HZ2	1.75	0.52
1:E:208:ILE:HG22	1:E:213:ARG:HB2	1.91	0.52
2:F:310:GLY:HA2	2:F:327:TRP:HZ2	1.75	0.52
2:F:358:LYS:O	2:F:359:ARG:HB2	2.10	0.52
3:G:723:ILE:HD12	3:G:741:LEU:CD1	2.40	0.52
3:G:932:GLN:HE21	3:G:933:ASP:N	2.07	0.52
3:G:1217:HIS:O	3:G:1218:PRO:C	2.47	0.52
4:H:257:ILE:HG13	4:H:296:LEU:HD22	1.92	0.52
1:A:95:LYS:NZ	3:C:881:ARG:N	2.57	0.51
1:A:293:GLU:O	1:A:297:MET:HG3	2.10	0.51
3:C:413:VAL:HG22	3:C:472:THR:HB	1.92	0.51
3:C:585:VAL:CG2	3:C:618:LEU:HG	2.40	0.51
3:C:740:TYR:O	3:C:743:GLU:HB3	2.10	0.51
3:C:920:GLU:HA	3:C:923:LYS:CD	2.40	0.51
3:C:1236:ALA:HB2	3:C:1246:PHE:CZ	2.45	0.51
3:C:1250:HIS:ND1	3:C:1251:TYR:N	2.58	0.51
3:C:1279:PHE:CB	3:C:1395:TYR:HE1	2.03	0.51
3:C:1345:TRP:CZ3	3:C:1358:ARG:HB2	2.41	0.51
4:D:426:LEU:N	4:D:437:GLN:HE22	2.07	0.51
2:F:358:LYS:O	2:F:359:ARG:CB	2.58	0.51
2:F:390:ASP:C	2:F:390:ASP:OD1	2.49	0.51
3:G:398:LEU:HD12	3:G:470:GLY:HA2	1.91	0.51
3:G:568:PHE:HE1	3:G:575:PRO:CD	2.17	0.51
3:G:946:GLN:HE22	3:G:947:LYS:CG	2.21	0.51
3:G:1340:LYS:O	3:G:1341:TYR:C	2.49	0.51
3:G:1405:LEU:HD23	3:G:1408:LEU:HD23	1.91	0.51
3:G:1445:GLY:O	3:G:1446:TYR:C	2.47	0.51
4:H:232:LYS:HD2	4:H:240:PHE:CE2	2.45	0.51
1:A:354:CYS:O	1:A:358:ASP:OD2	2.28	0.51
2:B:308:GLN:OE1	2:B:370:ILE:HD13	2.09	0.51
3:C:438:ASN:OD1	3:C:449:LYS:HE3	2.09	0.51
3:C:865:TYR:N	3:C:866:PRO:HD3	2.25	0.51
3:C:1133:PHE:O	3:C:1211:TYR:OH	2.22	0.51
4:D:357:TYR:CD2	4:D:405:CYS:SG	3.03	0.51
1:E:55:ILE:HG13	1:E:56:ARG:N	2.25	0.51
1:E:143:ASP:HB2	1:E:157:TRP:CZ2	2.45	0.51
2:F:296:ARG:NH2	2:F:333:LYS:NZ	2.58	0.51
3:G:417:PHE:CD1	3:G:421:ILE:HB	2.45	0.51
3:G:560:MET:CE	3:G:647:LEU:HD11	2.40	0.51
3:G:762:LEU:N	3:G:762:LEU:CD2	2.74	0.51
3:G:771:ILE:HD13	3:G:949:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:978:TYR:C	3:G:980:GLY:N	2.61	0.51
3:G:1034:LYS:HD2	3:G:1034:LYS:N	2.25	0.51
3:G:1095:VAL:O	3:G:1096:ILE:C	2.48	0.51
3:G:1147:PRO:C	3:G:1149:LYS:N	2.63	0.51
3:G:1177:TYR:CD1	3:G:1177:TYR:C	2.84	0.51
4:H:157:PRO:O	4:H:158:SER:OG	2.25	0.51
2:B:101:ILE:HG22	2:B:102:SER:N	2.24	0.51
2:B:159:LYS:HD3	2:B:160:THR:N	2.25	0.51
2:B:240:VAL:C	2:B:242:SER:N	2.61	0.51
3:C:631:PRO:HD2	3:C:688:ARG:NH1	2.25	0.51
3:C:984:LEU:HD12	3:C:984:LEU:O	2.09	0.51
3:C:1019:PHE:CE1	3:C:1040:ILE:HG21	2.46	0.51
1:E:66:LEU:HD11	1:E:70:MET:CE	2.41	0.51
1:E:131:CYS:HA	1:E:226:TYR:CE1	2.45	0.51
1:E:150:PHE:CE2	1:E:185:ILE:HG12	2.44	0.51
1:E:152:PHE:CD2	1:E:169:VAL:HG11	2.45	0.51
1:E:158:VAL:CG1	1:E:159:TYR:N	2.73	0.51
1:E:338:LYS:O	1:E:338:LYS:CG	2.59	0.51
2:F:358:LYS:HE2	3:G:1274:ARG:NH1	2.20	0.51
3:G:589:PRO:HG2	3:G:592:CYS:H	1.76	0.51
3:G:851:PHE:CE2	3:G:1108:ILE:HD12	2.45	0.51
3:G:903:ASP:CG	3:G:905:SER:HB3	2.30	0.51
1:A:259:PHE:N	1:A:259:PHE:HD2	2.07	0.51
2:B:121:ILE:HG12	2:B:226:LEU:CD2	2.39	0.51
3:C:350:GLU:OE2	3:C:484:LEU:CB	2.59	0.51
3:C:557:ILE:O	3:C:557:ILE:HG22	2.10	0.51
3:C:598:PHE:CE1	3:C:738:LEU:HB3	2.46	0.51
3:C:659:TRP:HZ2	3:C:667:ARG:HB2	1.74	0.51
3:C:716:LEU:HD11	3:C:754:GLN:CB	2.38	0.51
3:C:752:ILE:HG22	3:C:752:ILE:O	2.10	0.51
3:C:849:VAL:CG1	3:C:1226:PRO:HA	2.40	0.51
3:C:854:LYS:CB	3:C:1011:ASN:HA	2.41	0.51
3:C:864:LEU:HD12	3:C:868:ILE:HD11	1.92	0.51
3:C:1022:GLY:O	3:C:1025:VAL:HB	2.11	0.51
4:D:511:LEU:HD12	4:D:511:LEU:C	2.30	0.51
1:E:37:LYS:HZ1	1:E:42:HIS:CE1	2.29	0.51
2:F:74:LEU:HD23	2:F:130:PHE:CD1	2.45	0.51
3:G:874:ILE:HD13	3:G:976:VAL:CG2	2.39	0.51
3:G:1150:LYS:O	3:G:1190:GLN:HG3	2.11	0.51
4:H:346:CYS:CA	4:H:378:PHE:HB2	2.39	0.51
1:A:128:CYS:HB2	1:A:129:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:ARG:NH1	1:A:211:PHE:CD2	2.62	0.51
1:A:172:GLU:HG2	1:A:175:ARG:HH21	1.74	0.51
1:A:323:VAL:CG2	1:A:350:ILE:HD12	2.29	0.51
2:B:118:ARG:CG	2:B:118:ARG:NH1	2.70	0.51
3:C:344:TYR:N	3:C:498:TRP:CZ3	2.77	0.51
3:C:647:LEU:CD2	3:C:662:ILE:CD1	2.89	0.51
3:C:978:TYR:C	3:C:980:GLY:N	2.62	0.51
3:C:1082:ARG:O	3:C:1082:ARG:HG2	2.10	0.51
3:C:1149:LYS:O	3:C:1151:SER:N	2.44	0.51
4:D:287:ASP:OD2	4:D:313:LYS:HE2	2.11	0.51
4:D:363:LEU:O	4:D:364:ILE:C	2.49	0.51
2:F:42:PHE:CG	2:F:105:ILE:HD11	2.46	0.51
2:F:47:ILE:HD13	2:F:260:GLN:NE2	2.26	0.51
2:F:171:PRO:HG2	2:F:173:LEU:HB2	1.93	0.51
2:F:258:THR:OG1	2:F:261:ASP:CB	2.52	0.51
3:G:599:LYS:O	3:G:603:GLU:CD	2.49	0.51
3:G:635:VAL:HG22	3:G:752:ILE:CG2	2.36	0.51
3:G:751:PHE:HA	3:G:754:GLN:HG3	1.93	0.51
3:G:788:ASN:HD22	3:G:956:MET:CE	2.21	0.51
3:G:869:ILE:O	3:G:869:ILE:CG2	2.57	0.51
3:G:1074:LEU:HB3	3:G:1077:LEU:HD11	1.92	0.51
4:H:295:SER:OG	4:H:501:HIS:NE2	2.38	0.51
2:B:104:PHE:CE1	2:B:107:ARG:NH2	2.76	0.51
3:C:587:SER:OG	3:C:588:LYS:N	2.43	0.51
3:C:984:LEU:O	3:C:987:THR:HB	2.11	0.51
3:C:1222:ARG:HH11	3:C:1222:ARG:CB	2.24	0.51
4:D:202:LEU:HD23	4:D:439:PRO:HD3	1.92	0.51
4:D:381:PHE:CZ	4:D:422:PHE:HD1	2.29	0.51
4:D:450:LYS:NZ	4:D:450:LYS:HA	2.26	0.51
4:D:477:LEU:CD1	4:D:540:ILE:HB	2.41	0.51
2:F:163:GLU:HG3	2:F:178:LEU:CD2	2.41	0.51
3:G:873:ASN:OD1	3:G:908:MET:HA	2.11	0.51
3:G:955:SER:O	3:G:956:MET:C	2.48	0.51
3:G:1095:VAL:C	3:G:1097:GLY:N	2.64	0.51
3:G:1160:TRP:HE3	3:G:1161:ILE:HG13	1.76	0.51
3:G:1250:HIS:HE1	3:G:1254:ASP:CB	2.24	0.51
4:H:288:LEU:O	4:H:289:SER:C	2.48	0.51
1:A:43:ARG:HB2	1:A:83:VAL:HG22	1.91	0.51
1:A:107:VAL:HA	1:A:167:CYS:O	2.10	0.51
1:A:209:HIS:CG	1:A:210:PRO:CD	2.94	0.51
1:A:295:GLU:HA	1:A:298:LEU:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:49:ARG:CG	2:B:106:LEU:HD12	2.41	0.51
2:B:110:TYR:CZ	2:B:119:TRP:HZ3	2.29	0.51
2:B:148:GLN:O	2:B:149:LEU:HB2	2.10	0.51
2:B:258:THR:CG2	2:B:366:SER:HB2	2.40	0.51
3:C:489:MET:HG3	3:C:797:TYR:CE1	2.45	0.51
3:C:532:VAL:N	3:G:366:TRP:NE1	2.59	0.51
3:C:843:LEU:HD11	3:C:845:LEU:HD23	1.87	0.51
3:C:978:TYR:CA	3:C:981:ARG:NH2	2.74	0.51
3:C:1135:ILE:HD12	3:C:1177:TYR:CE1	2.46	0.51
3:C:1266:GLN:HG3	3:C:1267:LEU:N	2.26	0.51
3:C:1445:GLY:O	3:C:1446:TYR:C	2.49	0.51
4:D:227:LEU:CD1	4:D:227:LEU:C	2.76	0.51
4:D:303:ILE:CG2	4:D:320:TYR:HD1	2.23	0.51
4:D:480:LEU:HD13	4:D:511:LEU:HD22	1.91	0.51
1:E:1:MET:HG2	1:E:329:ARG:NH2	2.25	0.51
1:E:84:TYR:CD1	1:E:101:ALA:HA	2.45	0.51
3:G:437:LYS:HZ3	3:G:800:ASN:HD22	1.57	0.51
3:G:437:LYS:HZ3	3:G:800:ASN:ND2	2.09	0.51
3:G:1141:LYS:HE3	3:G:1146:TYR:CD1	2.46	0.51
3:G:1250:HIS:CE1	3:G:1251:TYR:HB2	2.46	0.51
3:G:1272:LYS:C	3:G:1273:TYR:HD1	2.14	0.51
3:G:1409:THR:HG23	3:G:1410:THR:H	1.75	0.51
3:G:1437:ALA:O	3:G:1438:GLU:C	2.49	0.51
4:H:253:LEU:H	4:H:253:LEU:HD23	1.76	0.51
4:H:406:LEU:O	4:H:410:ILE:HG13	2.11	0.51
1:A:43:ARG:HD3	1:A:44:GLU:H	1.75	0.51
2:B:94:GLU:CB	2:B:95:PRO:CD	2.89	0.51
2:B:358:LYS:CG	2:B:359:ARG:H	2.19	0.51
3:C:410:MET:HE1	3:C:453:LEU:CA	2.40	0.51
3:C:522:LYS:HE3	3:C:525:LEU:HD21	1.92	0.51
3:C:767:GLN:OE1	3:C:945:ARG:HG3	2.11	0.51
3:C:1222:ARG:CG	3:C:1223:ILE:HG13	2.40	0.51
3:C:1395:TYR:O	3:C:1398:ILE:CG1	2.56	0.51
4:D:310:THR:CG2	4:D:312:ARG:HG2	2.41	0.51
4:D:497:ARG:O	4:D:500:LYS:N	2.44	0.51
1:E:104:LYS:O	1:E:175:ARG:HA	2.10	0.51
2:F:417:GLY:O	2:F:418:THR:CG2	2.59	0.51
3:G:564:VAL:CG1	3:G:565:HIS:H	2.23	0.51
3:G:792:LEU:HB2	3:G:967:PHE:CE1	2.46	0.51
3:G:939:ILE:CG2	3:G:940:LEU:N	2.74	0.51
3:G:1276:CYS:SG	3:G:1390:THR:CG2	2.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:308:ASN:OD1	4:H:313:LYS:O	2.28	0.51
4:H:364:ILE:HA	4:H:367:ILE:HG13	1.92	0.51
2:B:403:ILE:O	2:B:408:ILE:HG13	2.10	0.51
2:B:428:PHE:CZ	2:B:450:GLU:HB3	2.46	0.51
3:C:920:GLU:HA	3:C:923:LYS:HE3	1.93	0.51
3:C:939:ILE:CG2	3:C:940:LEU:N	2.73	0.51
3:C:985:MET:O	3:C:986:HIS:C	2.48	0.51
3:C:1018:VAL:O	3:C:1022:GLY:N	2.38	0.51
4:D:435:TYR:CB	4:D:518:MET:HE1	2.41	0.51
4:D:525:PHE:O	4:D:530:GLN:NE2	2.44	0.51
2:F:324:LEU:HD23	2:F:349:ILE:HG21	1.93	0.51
3:G:796:PHE:CE1	3:G:910:ILE:HG21	2.46	0.51
3:G:1111:ASN:N	3:G:1111:ASN:HD22	2.09	0.51
3:G:1157:VAL:HG21	3:G:1177:TYR:HB2	1.92	0.51
4:H:555:VAL:HG21	4:H:590:CYS:HB3	1.93	0.51
4:H:571:PHE:CE2	4:H:598:ILE:HD13	2.45	0.51
1:A:291:TRP:HA	1:A:291:TRP:CE3	2.46	0.51
2:B:170:SER:HB3	2:B:171:PRO:CD	2.37	0.51
3:C:351:ASP:OD2	3:C:354:ASN:HB2	2.10	0.51
3:C:1115:ARG:O	3:C:1116:LEU:C	2.50	0.51
3:C:1334:ILE:HD13	3:C:1392:LEU:CD2	2.41	0.51
4:D:354:SER:CB	4:D:356:THR:HG23	2.39	0.51
4:D:411:GLU:HG3	4:D:414:ARG:HH12	1.76	0.51
4:D:476:LEU:C	4:D:476:LEU:CD1	2.75	0.51
1:E:336:LEU:HA	1:E:339:VAL:HG22	1.93	0.51
3:G:345:TRP:CD1	3:G:499:LEU:HD11	2.46	0.51
3:G:489:MET:CE	3:G:793:LEU:HB3	2.41	0.51
3:G:491:ARG:CZ	3:G:524:ASP:HA	2.41	0.51
3:G:754:GLN:O	3:G:757:CYS:N	2.43	0.51
3:G:978:TYR:HD1	3:G:981:ARG:NH2	2.09	0.51
3:G:1115:ARG:HG3	3:G:1119:ILE:HD11	1.93	0.51
4:H:296:LEU:O	4:H:484:GLU:HG2	2.10	0.51
2:B:36:ASN:HA	3:C:1451:LEU:HG	1.92	0.50
3:C:631:PRO:O	3:C:664:ARG:NH2	2.44	0.50
3:C:698:LYS:HZ1	3:C:706:TYR:HB2	1.75	0.50
3:C:734:GLU:OE1	3:C:736:SER:CB	2.56	0.50
3:C:1046:SER:HB2	3:C:1058:LEU:HD12	1.92	0.50
3:C:1047:LEU:HD12	3:C:1048:LEU:N	2.26	0.50
3:C:1345:TRP:CZ3	3:C:1358:ARG:CB	2.94	0.50
4:D:334:ASP:HA	4:D:337:PHE:CD2	2.46	0.50
1:E:147:LYS:CG	1:E:148:GLU:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:656:ALA:HB1	3:G:657:PRO:HD2	1.92	0.50
3:G:903:ASP:OD1	3:G:905:SER:HB3	2.11	0.50
3:G:1294:ASN:N	3:G:1398:ILE:HG22	2.25	0.50
4:H:259:CYS:SG	4:H:260:ASP:N	2.84	0.50
1:A:143:ASP:OD2	1:A:336:LEU:HD13	2.11	0.50
1:A:259:PHE:HB3	1:A:268:ARG:HD3	1.93	0.50
2:B:285:PRO:CA	2:B:447:PHE:CE2	2.94	0.50
2:B:441:LEU:HD12	2:B:446:GLN:OE1	2.11	0.50
3:C:437:LYS:HB3	3:C:802:ILE:HD11	1.93	0.50
3:C:564:VAL:CG1	3:C:565:HIS:H	2.24	0.50
1:E:25:GLN:HE21	1:E:396:GLU:CG	2.21	0.50
2:F:135:LEU:CB	2:F:140:ILE:HG13	2.41	0.50
2:F:143:PHE:O	2:F:147:SER:OG	2.26	0.50
2:F:295:LEU:CG	2:F:330:GLU:HG2	2.42	0.50
2:F:443:HIS:CE1	2:F:445:ASN:N	2.77	0.50
3:G:715:ILE:HG22	3:G:716:LEU:HD23	1.93	0.50
3:G:950:LYS:O	3:G:954:ASN:ND2	2.44	0.50
3:G:1148:ASP:HB2	4:H:261:SER:OG	2.11	0.50
2:B:359:ARG:C	2:B:360:THR:CG2	2.80	0.50
3:C:851:PHE:CE1	3:C:1048:LEU:HD12	2.44	0.50
3:C:973:ALA:O	3:C:974:ALA:C	2.50	0.50
3:C:1187:THR:O	3:C:1191:ARG:HG3	2.12	0.50
3:C:1328:ASN:O	3:C:1331:ILE:N	2.43	0.50
4:D:571:PHE:HE2	4:D:597:ARG:O	1.94	0.50
1:E:179:SER:HA	1:E:182:ARG:HG3	1.92	0.50
2:F:262:TYR:CD1	2:F:262:TYR:C	2.84	0.50
2:F:296:ARG:HH21	2:F:333:LYS:NZ	2.09	0.50
2:F:403:ILE:HG22	2:F:408:ILE:HG13	1.92	0.50
3:G:704:LYS:N	3:G:704:LYS:CE	2.70	0.50
3:G:763:PRO:O	3:G:764:LEU:C	2.49	0.50
3:G:973:ALA:O	3:G:977:THR:HG23	2.11	0.50
3:G:1063:THR:OG1	3:G:1064:SER:N	2.43	0.50
3:G:1120:GLY:O	3:G:1123:VAL:HB	2.12	0.50
3:G:1337:PHE:HD2	3:G:1391:GLN:HG2	1.70	0.50
4:H:243:LEU:CB	4:H:284:ILE:HD13	2.37	0.50
4:H:378:PHE:N	4:H:378:PHE:CD1	2.80	0.50
1:A:258:SER:HB3	1:A:271:HIS:CG	2.45	0.50
1:A:350:ILE:HA	1:A:353:ILE:CD1	2.41	0.50
1:A:387:SER:O	1:A:390:PRO:HD2	2.11	0.50
2:B:394:LEU:CD1	2:B:398:LEU:HD21	2.35	0.50
3:C:362:PHE:N	3:C:362:PHE:HD1	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:398:LEU:HD23	3:C:398:LEU:O	2.11	0.50
3:C:874:ILE:HD13	3:C:976:VAL:HG22	1.93	0.50
3:C:990:MET:HG2	3:C:994:MET:HE3	1.91	0.50
4:D:459:PRO:HB2	4:D:471:LEU:O	2.12	0.50
4:D:538:LEU:HD12	4:D:538:LEU:C	2.26	0.50
4:D:575:TYR:O	4:D:576:LEU:HD23	2.11	0.50
1:E:66:LEU:O	1:E:70:MET:HB2	2.12	0.50
1:E:207:LYS:NZ	2:F:172:SER:HA	2.26	0.50
2:F:171:PRO:C	2:F:173:LEU:N	2.65	0.50
2:F:359:ARG:O	2:F:360:THR:HG22	2.12	0.50
3:G:587:SER:O	3:G:732:TYR:OH	2.27	0.50
3:G:1131:SER:C	3:G:1133:PHE:N	2.65	0.50
3:G:1141:LYS:HZ1	3:G:1147:PRO:CD	2.24	0.50
3:G:1305:PRO:O	3:G:1307:LEU:N	2.45	0.50
4:H:213:LEU:N	4:H:214:PRO:CD	2.74	0.50
4:H:407:ARG:HG3	4:H:407:ARG:NH1	2.23	0.50
1:A:120:ARG:CZ	1:A:239:SER:OG	2.60	0.50
2:B:102:SER:OG	2:B:103:HIS:N	2.43	0.50
2:B:186:ILE:HD13	2:B:214:ILE:HD11	1.94	0.50
2:B:367:CYS:SG	2:B:443:HIS:N	2.85	0.50
2:B:367:CYS:O	2:B:368:LEU:C	2.49	0.50
3:C:377:CYS:SG	3:C:378:VAL:N	2.84	0.50
3:C:691:CYS:HA	3:C:780:LEU:HD21	1.93	0.50
3:C:1137:LYS:HD2	3:C:1154:HIS:HB3	1.94	0.50
3:C:1215:GLN:C	3:C:1218:PRO:HD2	2.32	0.50
3:C:1231:ASP:O	3:C:1235:ILE:CD1	2.60	0.50
3:C:1330:LEU:O	3:C:1331:ILE:C	2.50	0.50
4:D:342:VAL:O	4:D:574:LEU:HD12	2.11	0.50
4:D:503:LEU:HD23	4:D:534:THR:HG23	1.92	0.50
1:E:68:LYS:HE3	1:E:72:LYS:CD	2.41	0.50
1:E:129:PRO:HD3	1:E:345:PHE:CZ	2.47	0.50
2:F:194:LEU:HD11	2:F:213:ASP:HB3	1.92	0.50
3:G:542:PHE:O	3:G:542:PHE:CG	2.65	0.50
3:G:622:PHE:O	3:G:624:ALA:N	2.45	0.50
3:G:1198:LEU:HG	3:G:1199:GLN:H	1.75	0.50
3:G:1207:ASP:C	3:G:1207:ASP:OD2	2.49	0.50
3:G:1349:GLU:OE2	3:G:1378:THR:HB	2.11	0.50
4:H:222:CYS:O	4:H:223:LYS:C	2.49	0.50
4:H:538:LEU:HD12	4:H:540:ILE:CD1	2.42	0.50
2:B:26:LEU:HD22	2:B:128:LEU:CD1	2.41	0.50
2:B:146:ASP:OD2	2:B:146:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:266:GLY:O	2:B:267:ASN:O	2.30	0.50
2:B:283:SER:O	2:B:447:PHE:HE2	1.95	0.50
3:C:570:LEU:HD13	3:C:766:LEU:HD22	1.93	0.50
3:C:622:PHE:CE2	3:C:647:LEU:HD11	2.47	0.50
3:C:648:LEU:HD23	3:C:670:MET:SD	2.52	0.50
3:C:851:PHE:HD1	3:C:1048:LEU:CD1	2.19	0.50
3:C:1411:ASP:O	3:C:1415:ASP:OD2	2.29	0.50
3:C:1417:LEU:HG	3:C:1421:PHE:CD2	2.36	0.50
4:D:403:LYS:HB3	4:D:442:TYR:HE1	1.77	0.50
4:D:510:PRO:O	4:D:511:LEU:C	2.50	0.50
1:E:269:TRP:CE2	1:E:273:LYS:HD3	2.46	0.50
2:F:93:TYR:HB3	2:F:96:ARG:HB3	1.94	0.50
2:F:103:HIS:CD2	2:F:104:PHE:CD1	2.99	0.50
2:F:328:LYS:NZ	2:F:341:PHE:HD2	2.09	0.50
2:F:404:SER:O	2:F:407:GLY:N	2.45	0.50
3:G:354:ASN:N	3:G:354:ASN:HD22	2.09	0.50
3:G:622:PHE:HE2	3:G:647:LEU:CD2	2.18	0.50
3:G:740:TYR:O	3:G:743:GLU:HB3	2.10	0.50
3:G:760:ASN:O	3:G:764:LEU:HB2	2.12	0.50
3:G:774:ASN:CG	3:G:775:ILE:H	2.15	0.50
3:G:1236:ALA:HB2	3:G:1246:PHE:CZ	2.47	0.50
4:H:186:GLY:HA3	4:H:371:ARG:HH21	1.74	0.50
1:A:69:GLU:O	1:A:73:MET:CG	2.57	0.50
2:B:401:TYR:HD2	2:B:427:TYR:HE2	1.59	0.50
3:C:353:TYR:HD2	3:C:354:ASN:ND2	2.09	0.50
3:C:385:ARG:HB2	3:C:457:TYR:CE1	2.47	0.50
3:C:843:LEU:N	3:C:981:ARG:CG	2.68	0.50
3:C:1349:GLU:HG2	3:C:1378:THR:O	2.11	0.50
4:D:191:ILE:HG21	4:D:419:HIS:CE1	2.46	0.50
4:D:421:VAL:O	4:D:421:VAL:HG12	2.12	0.50
2:F:77:GLU:O	2:F:79:ARG:N	2.44	0.50
2:F:253:LEU:O	2:F:254:SER:OG	2.28	0.50
2:F:291:LEU:HD13	2:F:309:TYR:HB2	1.94	0.50
2:F:403:ILE:O	2:F:408:ILE:HG13	2.12	0.50
3:G:388:TYR:O	3:G:476:VAL:HA	2.11	0.50
3:G:618:LEU:HD23	3:G:619:LEU:HD22	1.92	0.50
3:G:788:ASN:HB3	3:G:956:MET:HE3	1.93	0.50
3:G:903:ASP:H	3:G:906:LEU:CD1	2.25	0.50
3:G:984:LEU:HD12	3:G:984:LEU:C	2.32	0.50
3:G:1002:ASP:O	3:G:1004:ASP:N	2.41	0.50
3:G:1083:ASP:O	3:G:1084:TRP:HE3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1360:LEU:CD2	4:H:216:ILE:HG22	2.36	0.50
4:H:172:THR:HG22	4:H:173:SER:N	2.25	0.50
4:H:363:LEU:O	4:H:364:ILE:C	2.50	0.50
4:H:543:GLU:O	4:H:543:GLU:CG	2.59	0.50
1:A:127:ILE:HD12	1:A:127:ILE:O	2.12	0.50
3:C:622:PHE:O	3:C:624:ALA:N	2.45	0.50
3:C:788:ASN:ND2	3:C:956:MET:SD	2.85	0.50
3:C:804:PRO:HG2	3:C:967:PHE:CE2	2.47	0.50
3:C:1095:VAL:HG13	3:C:1112:ILE:HD13	1.88	0.50
4:D:295:SER:OG	4:D:497:ARG:HD3	2.11	0.50
4:D:381:PHE:HE2	4:D:440:PHE:CE2	2.30	0.50
1:E:25:GLN:NE2	1:E:396:GLU:HG3	2.21	0.50
2:F:394:LEU:HA	2:F:397:LYS:HD2	1.94	0.50
3:G:857:LEU:HD12	3:G:1018:VAL:HG12	1.94	0.50
3:G:859:LEU:CD2	3:G:1040:ILE:HA	2.42	0.50
3:G:981:ARG:HG3	3:G:981:ARG:NH1	2.27	0.50
3:G:1034:LYS:O	3:G:1035:LEU:HD23	2.12	0.50
3:G:1405:LEU:HA	3:G:1408:LEU:HD23	1.94	0.50
4:H:397:PRO:O	4:H:401:ILE:HG13	2.11	0.50
4:H:538:LEU:CB	4:H:540:ILE:HD11	2.42	0.50
4:H:577:ARG:O	4:H:579:PRO:HD3	2.11	0.50
1:A:135:MET:SD	1:A:164:GLY:CA	2.95	0.50
1:A:158:VAL:HG12	1:A:159:TYR:N	2.27	0.50
3:C:658:HIS:O	3:C:661:LYS:HG3	2.12	0.50
3:C:1116:LEU:CA	3:C:1119:ILE:HG12	2.41	0.50
3:C:1175:VAL:HG12	3:C:1176:SER:N	2.27	0.50
3:C:1242:ASP:N	3:C:1243:PRO:HD2	2.27	0.50
4:D:344:VAL:CG2	4:D:574:LEU:HD11	2.42	0.50
1:E:25:GLN:HE22	1:E:392:VAL:HG12	1.75	0.50
1:E:334:ILE:HA	1:E:342:PHE:CE2	2.47	0.50
2:F:23:PRO:HD2	2:F:25:CYS:HB2	1.93	0.50
2:F:94:GLU:HA	2:F:94:GLU:OE2	2.12	0.50
2:F:159:LYS:HE3	2:F:178:LEU:HD23	1.94	0.50
2:F:184:TYR:N	2:F:184:TYR:CD1	2.80	0.50
2:F:398:LEU:HD11	2:F:411:ILE:HG21	1.94	0.50
4:H:376:ILE:HG23	4:H:421:VAL:CG1	2.42	0.50
4:H:406:LEU:HD21	4:H:455:PHE:HZ	1.76	0.50
4:H:571:PHE:N	4:H:571:PHE:HD2	2.09	0.50
1:A:144:ARG:NH1	1:A:149:ASP:OD2	2.44	0.49
1:A:258:SER:HB3	1:A:271:HIS:ND1	2.27	0.49
2:B:214:ILE:HG22	2:B:215:VAL:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:389:PHE:CZ	3:C:476:VAL:HG21	2.47	0.49
3:C:395:LYS:CB	3:C:408:ILE:HD11	2.41	0.49
3:C:1142:ASP:O	3:C:1145:ASP:N	2.43	0.49
3:C:1230:ILE:CG2	3:C:1235:ILE:HD11	2.42	0.49
4:D:220:LEU:O	4:D:223:LYS:HB3	2.12	0.49
1:E:214:LYS:HA	1:E:217:ASN:HD22	1.77	0.49
2:F:94:GLU:CG	2:F:95:PRO:HD3	2.42	0.49
2:F:279:LEU:N	2:F:279:LEU:HD23	2.26	0.49
2:F:367:CYS:HB3	2:F:421:GLN:HE21	1.74	0.49
2:F:374:ASN:O	2:F:375:PRO:O	2.30	0.49
3:G:630:ASP:C	3:G:688:ARG:HH22	2.15	0.49
3:G:1005:SER:O	3:G:1006:ILE:HG12	2.12	0.49
4:H:476:LEU:HD12	4:H:480:LEU:HD23	1.93	0.49
1:A:141:ILE:CD1	1:A:303:PRO:HD3	2.42	0.49
2:B:22:TYR:HB3	2:B:84:SER:HB3	1.93	0.49
2:B:39:LEU:CD1	2:B:245:ARG:HD2	2.41	0.49
2:B:229:ALA:C	2:B:231:ALA:N	2.65	0.49
3:C:484:LEU:HD12	3:C:488:LEU:HD23	1.94	0.49
3:C:488:LEU:H	3:C:488:LEU:CD2	2.24	0.49
3:C:759:LEU:O	3:C:760:ASN:C	2.51	0.49
3:C:1277:GLU:OE1	3:C:1337:PHE:CZ	2.64	0.49
3:C:1349:GLU:OE2	3:C:1378:THR:HB	2.11	0.49
4:D:275:ASP:OD1	4:D:278:HIS:HB2	2.12	0.49
4:D:343:LEU:HD22	4:D:367:ILE:HD13	1.93	0.49
4:D:531:LEU:N	4:D:531:LEU:HD23	2.28	0.49
4:D:539:ILE:HG22	4:D:539:ILE:O	2.10	0.49
4:D:561:ARG:HG3	4:D:564:LYS:HZ3	1.77	0.49
1:E:108:PHE:N	1:E:108:PHE:CD1	2.80	0.49
1:E:259:PHE:CD2	1:E:268:ARG:HG3	2.47	0.49
1:E:276:ALA:O	1:E:280:GLN:HG2	2.12	0.49
2:F:139:LYS:O	2:F:142:ASP:OD2	2.29	0.49
3:G:495:GLY:O	3:G:496:PRO:C	2.50	0.49
3:G:758:GLU:OE1	3:G:758:GLU:HA	2.12	0.49
3:G:911:LEU:HB3	3:G:912:PRO:HD3	1.94	0.49
3:G:1055:TYR:CD1	3:G:1055:TYR:C	2.85	0.49
4:H:431:HIS:CE1	4:H:439:PRO:O	2.65	0.49
1:A:43:ARG:HE	1:A:83:VAL:CG2	2.25	0.49
1:A:202:VAL:HG11	1:A:298:LEU:HB2	1.94	0.49
1:A:229:VAL:CG2	1:A:266:LEU:HD21	2.34	0.49
1:A:401:ASN:HD22	1:A:401:ASN:N	2.10	0.49
2:B:101:ILE:O	2:B:102:SER:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:128:LEU:HD11	2:B:132:PHE:HE2	1.76	0.49
2:B:186:ILE:CD1	2:B:214:ILE:HD11	2.42	0.49
3:C:377:CYS:O	3:C:517:GLU:HA	2.12	0.49
3:C:636:GLY:O	3:C:693:VAL:HG23	2.13	0.49
3:C:705:SER:C	3:C:706:TYR:CD2	2.86	0.49
3:C:920:GLU:HG2	3:C:923:LYS:HZ2	1.78	0.49
3:C:1095:VAL:C	3:C:1097:GLY:N	2.63	0.49
4:D:247:ALA:O	4:D:309:THR:HA	2.12	0.49
4:D:296:LEU:HB2	4:D:485:ILE:HG13	1.94	0.49
1:E:35:VAL:O	1:E:36:ILE:HD13	2.13	0.49
1:E:207:LYS:HE3	2:F:172:SER:HA	1.94	0.49
2:F:160:THR:HA	2:F:163:GLU:HB2	1.94	0.49
2:F:303:HIS:HA	2:F:306:ARG:NH2	2.27	0.49
3:G:437:LYS:CD	3:G:800:ASN:ND2	2.72	0.49
3:G:568:PHE:CE1	3:G:575:PRO:CD	2.82	0.49
3:G:599:LYS:HE2	3:G:611:VAL:CG1	2.40	0.49
3:G:872:PHE:CZ	3:G:979:LYS:HE2	2.47	0.49
3:G:998:VAL:O	3:G:998:VAL:HG12	2.12	0.49
3:G:1036:LEU:O	3:G:1037:GLU:HG3	2.12	0.49
3:G:1151:SER:HA	3:G:1189:SER:HB2	1.92	0.49
4:H:246:PRO:HG3	4:H:311:GLY:CA	2.40	0.49
4:H:574:LEU:N	4:H:574:LEU:CD1	2.73	0.49
1:A:158:VAL:HA	1:A:333:PRO:HA	1.93	0.49
2:B:404:SER:O	2:B:407:GLY:N	2.45	0.49
3:C:437:LYS:HD2	3:C:802:ILE:CD1	2.42	0.49
3:C:561:ALA:HA	3:C:584:CYS:HA	1.94	0.49
3:C:651:ILE:HG13	3:C:656:ALA:HB3	1.95	0.49
3:C:988:LYS:O	3:C:992:GLN:HG3	2.12	0.49
3:C:1131:SER:C	3:C:1133:PHE:N	2.66	0.49
3:C:1224:CYS:O	3:C:1225:GLU:C	2.51	0.49
3:C:1312:ASN:HD22	3:C:1315:CYS:CB	2.17	0.49
4:D:164:ARG:NH1	4:D:167:ARG:NH2	2.58	0.49
4:D:494:ARG:O	4:D:498:ILE:HG12	2.13	0.49
2:F:148:GLN:HA	2:F:148:GLN:OE1	2.13	0.49
2:F:184:TYR:CE1	2:F:210:PRO:O	2.65	0.49
2:F:441:LEU:HD21	2:F:447:PHE:CD1	2.47	0.49
3:G:636:GLY:HA3	3:G:639:ILE:CD1	2.38	0.49
3:G:651:ILE:HG22	3:G:652:ASN:H	1.77	0.49
3:G:658:HIS:O	3:G:659:TRP:C	2.51	0.49
3:G:762:LEU:N	3:G:763:PRO:CD	2.75	0.49
3:G:1376:LYS:HE2	3:G:1376:LYS:CA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:385:LYS:CA	4:H:390:GLU:OE1	2.56	0.49
1:A:60:PHE:HB3	1:A:65:ASP:HB2	1.94	0.49
1:A:103:GLU:OE1	1:A:176:LYS:HB3	2.12	0.49
1:A:244:LEU:HD11	1:A:256:GLN:HE22	1.76	0.49
3:C:362:PHE:CE2	3:C:664:ARG:HB3	2.47	0.49
3:C:979:LYS:O	3:C:982:GLU:HB3	2.12	0.49
3:C:1246:PHE:O	3:C:1249:HIS:HB2	2.13	0.49
3:C:1392:LEU:HD13	3:C:1441:LEU:CD2	2.42	0.49
4:D:292:LYS:CD	4:D:293:GLU:H	2.24	0.49
1:E:132:TRP:CD2	1:E:344:PRO:HG2	2.48	0.49
1:E:208:ILE:HD12	1:E:212:ILE:CG2	2.41	0.49
2:F:148:GLN:O	2:F:149:LEU:HB2	2.12	0.49
3:G:643:GLU:HA	3:G:646:VAL:HG23	1.93	0.49
3:G:848:LYS:O	3:G:849:VAL:C	2.51	0.49
3:G:1007:MET:C	3:G:1008:ILE:HG13	2.33	0.49
3:G:1019:PHE:O	3:G:1021:LEU:N	2.46	0.49
3:G:1431:ARG:O	3:G:1435:ASN:CG	2.51	0.49
4:H:435:TYR:HB2	4:H:518:MET:HE1	1.95	0.49
1:A:113:THR:HG23	1:A:163:ARG:CZ	2.43	0.49
1:A:291:TRP:HA	1:A:291:TRP:HE3	1.78	0.49
3:C:648:LEU:CD2	3:C:670:MET:SD	3.00	0.49
3:C:848:LYS:O	3:C:849:VAL:C	2.48	0.49
3:C:1010:THR:O	3:C:1011:ASN:CB	2.57	0.49
3:C:1340:LYS:O	3:C:1343:ASP:N	2.45	0.49
4:D:372:PRO:O	4:D:418:SER:HB3	2.13	0.49
4:D:522:TYR:CD2	4:D:522:TYR:N	2.80	0.49
4:D:576:LEU:O	4:D:577:ARG:HB2	2.12	0.49
2:F:411:ILE:O	2:F:414:LEU:HB2	2.11	0.49
3:G:561:ALA:HA	3:G:584:CYS:HA	1.94	0.49
3:G:602:ILE:HG22	3:G:603:GLU:N	2.27	0.49
3:G:616:ARG:NH2	3:G:657:PRO:HD3	2.28	0.49
3:G:1038:ILE:HG13	3:G:1039:ASP:H	1.76	0.49
3:G:1340:LYS:O	3:G:1343:ASP:N	2.44	0.49
3:G:1348:CYS:SG	3:G:1353:CYS:CB	2.90	0.49
3:G:1401:ALA:HB2	3:G:1430:TYR:CD1	2.47	0.49
3:G:1402:GLU:O	3:G:1406:GLU:HG3	2.13	0.49
1:A:46:SER:C	1:A:47:PHE:CD1	2.86	0.49
1:A:139:ILE:HD13	1:A:339:VAL:HG13	1.94	0.49
2:B:22:TYR:HB3	2:B:23:PRO:HD3	1.94	0.49
2:B:27:GLN:NE2	2:B:29:TYR:HD2	2.10	0.49
2:B:42:PHE:CD1	2:B:105:ILE:HD11	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:336:MET:CG	2:B:337:ASP:H	2.14	0.49
2:B:376:PRO:HB3	2:B:382:HIS:CD2	2.48	0.49
3:C:556:GLU:HG2	3:C:650:ARG:HH21	1.78	0.49
3:C:929:MET:O	3:C:929:MET:HG2	2.13	0.49
3:C:1300:GLY:N	3:C:1303:MET:HG3	2.28	0.49
3:C:1307:LEU:HD13	3:C:1430:TYR:CZ	2.47	0.49
4:D:193:LEU:CD1	4:D:462:LEU:HD11	2.38	0.49
4:D:512:TYR:CD1	4:D:513:PRO:HA	2.48	0.49
1:E:16:TYR:CD1	1:E:20:LEU:HB2	2.48	0.49
1:E:74:ASN:N	1:E:75:PRO:HD3	2.27	0.49
1:E:168:TRP:CZ2	1:E:320:PRO:HD3	2.48	0.49
1:E:206:GLU:OE2	1:E:289:GLY:HA2	2.11	0.49
1:E:402:LEU:HD13	1:E:402:LEU:N	2.28	0.49
2:F:97:ARG:O	2:F:98:ARG:C	2.50	0.49
2:F:215:VAL:O	2:F:218:ILE:HB	2.13	0.49
3:G:761:VAL:HB	3:G:762:LEU:HD23	1.94	0.49
4:H:287:ASP:HB3	4:H:315:VAL:HA	1.94	0.49
4:H:495:PHE:O	4:H:497:ARG:N	2.45	0.49
1:A:42:HIS:O	1:A:83:VAL:HA	2.13	0.49
1:A:50:LYS:H	1:A:50:LYS:HD2	1.78	0.49
2:B:285:PRO:HB2	2:B:286:PRO:HD2	1.94	0.49
2:B:300:HIS:HA	2:B:331:PHE:HE1	1.78	0.49
2:B:443:HIS:ND1	2:B:445:ASN:N	2.60	0.49
3:C:350:GLU:HB3	3:C:359:VAL:HG22	1.95	0.49
3:C:387:LEU:HD23	3:C:476:VAL:CG2	2.42	0.49
3:C:559:ALA:HA	3:C:585:VAL:O	2.12	0.49
3:C:651:ILE:CG2	3:C:652:ASN:N	2.74	0.49
3:C:759:LEU:HB2	3:C:761:VAL:CG2	2.42	0.49
3:C:1018:VAL:O	3:C:1021:LEU:HB3	2.13	0.49
3:C:1369:PRO:HG3	3:C:1379:LEU:HB2	1.95	0.49
3:C:1430:TYR:O	3:C:1431:ARG:C	2.49	0.49
4:D:364:ILE:O	4:D:367:ILE:N	2.46	0.49
4:D:497:ARG:O	4:D:498:ILE:C	2.50	0.49
4:D:535:PRO:HG2	4:D:554:CYS:SG	2.53	0.49
1:E:59:SER:HB3	1:E:89:ASN:CG	2.33	0.49
2:F:311:LEU:O	2:F:312:PHE:C	2.51	0.49
2:F:311:LEU:HB3	2:F:364:PRO:HG3	1.94	0.49
2:F:398:LEU:HD12	2:F:408:ILE:HG23	1.95	0.49
2:F:449:CYS:O	2:F:452:GLN:N	2.40	0.49
3:G:1267:LEU:HD23	3:G:1271:GLU:OE2	2.12	0.49
3:G:1290:ASN:ND2	3:G:1292:TYR:HE1	2.08	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1395:TYR:CD1	3:G:1398:ILE:HD11	2.40	0.49
4:H:198:CYS:O	4:H:199:PRO:C	2.50	0.49
4:H:355:ILE:O	4:H:357:TYR:HD1	1.95	0.49
1:A:144:ARG:NH1	1:A:145:ALA:HA	2.28	0.49
2:B:308:GLN:HA	2:B:365:PHE:CE2	2.48	0.49
2:B:369:LYS:C	2:B:371:ILE:N	2.66	0.49
3:C:495:GLY:O	3:C:496:PRO:C	2.50	0.49
3:C:636:GLY:C	3:C:752:ILE:HD13	2.33	0.49
3:C:658:HIS:O	3:C:659:TRP:C	2.51	0.49
3:C:1054:LYS:HD3	3:C:1076:GLY:O	2.13	0.49
3:C:1094:PHE:CZ	3:C:1115:ARG:HG2	2.48	0.49
3:C:1415:ASP:HA	3:C:1418:LYS:HB3	1.94	0.49
4:D:563:THR:O	4:D:564:LYS:HG3	2.12	0.49
2:F:276:ILE:HA	2:F:279:LEU:HG	1.95	0.49
2:F:285:PRO:HG2	2:F:287:CYS:SG	2.53	0.49
3:G:485:GLU:CD	3:G:966:ARG:HH12	2.16	0.49
3:G:629:ILE:CG2	3:G:631:PRO:HD3	2.35	0.49
3:G:659:TRP:HZ2	3:G:667:ARG:O	1.96	0.49
3:G:982:GLU:HA	3:G:985:MET:HE2	1.94	0.49
3:G:1217:HIS:N	3:G:1218:PRO:CD	2.76	0.49
3:G:1224:CYS:HA	3:G:1227:ILE:CD1	2.43	0.49
3:G:1244:THR:O	3:G:1248:VAL:HG23	2.13	0.49
3:G:1279:PHE:HB2	3:G:1395:TYR:CE1	2.48	0.49
3:G:1294:ASN:OD1	3:G:1397:TYR:CZ	2.66	0.49
3:G:1305:PRO:O	3:G:1308:TYR:N	2.44	0.49
4:H:182:TRP:HE3	4:H:341:MET:CE	2.26	0.49
4:H:196:LEU:HD12	4:H:197:GLY:H	1.77	0.49
1:A:56:ARG:O	1:A:58:GLN:HG2	2.13	0.49
1:A:350:ILE:HA	1:A:353:ILE:CG1	2.43	0.49
2:B:75:GLU:HB3	2:B:130:PHE:CZ	2.43	0.49
2:B:114:GLU:O	2:B:118:ARG:HG3	2.13	0.49
2:B:143:PHE:O	2:B:147:SER:OG	2.18	0.49
3:C:598:PHE:CZ	3:C:738:LEU:HB3	2.48	0.49
3:C:703:CYS:SG	3:C:706:TYR:OH	2.68	0.49
3:C:759:LEU:O	3:C:761:VAL:N	2.46	0.49
3:C:774:ASN:CG	3:C:775:ILE:N	2.66	0.49
3:C:850:GLY:HA2	3:C:1226:PRO:O	2.13	0.49
4:D:421:VAL:CG1	4:D:421:VAL:O	2.60	0.49
4:D:512:TYR:HA	4:D:514:PRO:HD3	1.94	0.49
4:D:561:ARG:HG3	4:D:564:LYS:CE	2.43	0.49
1:E:355:ARG:HH11	1:E:355:ARG:CB	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:358:LYS:CG	2:F:359:ARG:N	2.58	0.49
3:G:558:ILE:HD11	3:G:741:LEU:HD21	1.94	0.49
3:G:642:PHE:O	3:G:646:VAL:HG23	2.13	0.49
3:G:774:ASN:CG	3:G:775:ILE:N	2.66	0.49
3:G:795:ALA:HB2	3:G:914:GLU:HG3	1.95	0.49
3:G:1116:LEU:CA	3:G:1119:ILE:HG12	2.43	0.49
3:G:1175:VAL:HG12	3:G:1176:SER:N	2.27	0.49
4:H:543:GLU:O	4:H:543:GLU:HG3	2.12	0.49
1:A:157:TRP:CB	1:A:334:ILE:HD12	2.42	0.48
2:B:265:GLN:CB	2:B:362:TYR:CE2	2.92	0.48
2:B:280:SER:N	2:B:284:PHE:CE1	2.81	0.48
3:C:507:LEU:O	3:C:508:ASN:C	2.51	0.48
3:C:598:PHE:CE1	3:C:735:SER:HA	2.49	0.48
3:C:719:GLU:OE1	3:C:720:ARG:N	2.46	0.48
3:C:721:VAL:HG12	3:C:722:VAL:H	1.77	0.48
3:C:878:THR:HB	3:C:902:PRO:HG3	1.94	0.48
3:C:918:LEU:HD12	3:C:953:ALA:HB2	1.94	0.48
3:C:975:LEU:C	3:C:975:LEU:HD12	2.33	0.48
3:C:1036:LEU:C	3:C:1037:GLU:HG3	2.33	0.48
3:C:1188:ALA:HA	3:C:1191:ARG:HE	1.76	0.48
4:D:212:LYS:O	4:D:213:LEU:C	2.50	0.48
4:D:254:LEU:HD12	4:D:254:LEU:C	2.32	0.48
4:D:541:PRO:C	4:D:558:ASN:OD1	2.52	0.48
1:E:103:GLU:CD	1:E:176:LYS:HB3	2.33	0.48
1:E:118:VAL:HG11	1:E:300:TYR:O	2.13	0.48
2:F:137:LYS:NZ	2:F:181:GLU:CA	2.74	0.48
3:G:437:LYS:CE	3:G:800:ASN:ND2	2.76	0.48
3:G:982:GLU:O	3:G:984:LEU:N	2.46	0.48
3:G:1083:ASP:C	3:G:1084:TRP:HE3	2.15	0.48
3:G:1113:GLN:O	3:G:1117:ILE:HG13	2.13	0.48
3:G:1307:LEU:N	3:G:1307:LEU:HD12	2.27	0.48
4:H:257:ILE:CG2	4:H:270:VAL:HG13	2.43	0.48
4:H:267:ASN:N	4:H:267:ASN:OD1	2.46	0.48
4:H:435:TYR:CD1	4:H:435:TYR:C	2.86	0.48
1:A:106:LEU:HD21	1:A:185:ILE:HD12	1.94	0.48
1:A:345:PHE:CD1	1:A:345:PHE:N	2.82	0.48
1:A:410:LEU:C	1:A:412:LYS:H	2.16	0.48
2:B:39:LEU:HD11	2:B:245:ARG:CD	2.43	0.48
2:B:171:PRO:C	2:B:173:LEU:N	2.65	0.48
4:D:297:PHE:N	4:D:300:GLN:OE1	2.46	0.48
4:D:445:LEU:HB3	4:D:450:LYS:HZ3	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:LEU:HD11	1:E:80:ILE:CD1	2.41	0.48
3:G:484:LEU:HD12	3:G:488:LEU:HD23	1.95	0.48
3:G:522:LYS:HG3	3:G:525:LEU:CD1	2.42	0.48
3:G:583:PHE:CD1	3:G:583:PHE:C	2.87	0.48
3:G:599:LYS:O	3:G:602:ILE:HB	2.12	0.48
3:G:664:ARG:HG3	3:G:688:ARG:NE	2.28	0.48
3:G:864:LEU:C	3:G:866:PRO:HD2	2.34	0.48
3:G:1345:TRP:CH2	3:G:1358:ARG:HD3	2.48	0.48
4:H:248:GLN:HA	4:H:309:THR:HG22	1.95	0.48
4:H:508:TYR:CE2	4:H:531:LEU:HD22	2.48	0.48
1:A:46:SER:HB3	1:A:79:ASP:HB2	1.95	0.48
1:A:169:VAL:HG12	1:A:174:VAL:HG11	1.95	0.48
1:A:410:LEU:O	1:A:412:LYS:N	2.46	0.48
2:B:32:PRO:CA	2:B:104:PHE:HE2	2.25	0.48
2:B:258:THR:C	2:B:260:GLN:N	2.65	0.48
2:B:313:LEU:O	2:B:316:ILE:CG1	2.61	0.48
2:B:320:LEU:HA	2:B:353:PHE:CE1	2.48	0.48
3:C:362:PHE:HE2	3:C:664:ARG:HB3	1.79	0.48
3:C:858:LEU:HD13	3:C:1007:MET:CE	2.42	0.48
3:C:1158:ALA:CA	3:C:1161:ILE:HD12	2.42	0.48
3:C:1215:GLN:O	3:C:1218:PRO:HD2	2.12	0.48
4:D:240:PHE:HA	4:D:252:THR:O	2.12	0.48
1:E:55:ILE:CG1	1:E:56:ARG:N	2.76	0.48
1:E:129:PRO:HG3	1:E:345:PHE:CE2	2.48	0.48
1:E:135:MET:SD	1:E:165:VAL:HG22	2.54	0.48
1:E:264:ASN:OD1	1:E:266:LEU:HB2	2.13	0.48
3:G:854:LYS:CB	3:G:1011:ASN:HA	2.43	0.48
3:G:876:PHE:CE2	3:G:960:LEU:HD11	2.49	0.48
3:G:1019:PHE:O	3:G:1022:GLY:N	2.46	0.48
3:G:1045:LYS:N	3:G:1058:LEU:O	2.44	0.48
3:G:1122:ASN:HA	3:G:1125:ASN:HD21	1.78	0.48
4:H:364:ILE:O	4:H:367:ILE:N	2.46	0.48
4:H:383:ASP:OD1	4:H:385:LYS:HB2	2.13	0.48
1:A:84:TYR:CD1	1:A:101:ALA:HA	2.48	0.48
1:A:89:ASN:ND2	1:A:90:GLN:HG3	2.29	0.48
1:A:343:ASP:OD1	1:A:346:THR:HG23	2.13	0.48
4:D:424:PRO:HG2	4:D:458:GLU:HB3	1.95	0.48
1:E:56:ARG:HG2	1:E:57:TYR:HD2	1.77	0.48
2:F:144:LEU:O	2:F:145:LYS:C	2.52	0.48
2:F:284:PHE:HB3	2:F:288:MET:HB2	1.94	0.48
3:G:487:PHE:O	3:G:488:LEU:C	2.50	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:648:LEU:O	3:G:651:ILE:HG22	2.14	0.48
3:G:691:CYS:HA	3:G:780:LEU:HD22	1.94	0.48
3:G:698:LYS:HA	3:G:706:TYR:CE1	2.48	0.48
3:G:973:ALA:O	3:G:974:ALA:C	2.52	0.48
3:G:979:LYS:O	3:G:982:GLU:HB3	2.14	0.48
3:G:1439:GLN:O	3:G:1442:SER:HB3	2.12	0.48
4:H:360:LEU:O	4:H:364:ILE:HG13	2.14	0.48
1:A:29:TRP:C	1:A:29:TRP:CD1	2.87	0.48
1:A:112:MET:HB3	1:A:163:ARG:HB2	1.94	0.48
2:B:42:PHE:CD1	3:C:1449:VAL:HG11	2.48	0.48
3:C:410:MET:HE1	3:C:453:LEU:HB2	1.94	0.48
3:C:635:VAL:CG2	3:C:635:VAL:O	2.60	0.48
4:D:161:TYR:CZ	4:D:359:PRO:HG3	2.48	0.48
4:D:202:LEU:HD21	4:D:439:PRO:HD3	1.94	0.48
4:D:288:LEU:O	4:D:291:LEU:N	2.41	0.48
4:D:307:ILE:HG13	4:D:315:VAL:CG2	2.43	0.48
4:D:447:ARG:NH2	4:D:450:LYS:HB2	2.28	0.48
1:E:14:LYS:HA	1:E:74:ASN:OD1	2.13	0.48
1:E:37:LYS:CG	1:E:38:ASN:N	2.76	0.48
1:E:141:ILE:HD12	1:E:303:PRO:HD3	1.95	0.48
1:E:156:LEU:HB2	1:E:398:PHE:CE1	2.48	0.48
1:E:246:LEU:CD1	1:E:296:ILE:HG12	2.44	0.48
2:F:23:PRO:HD2	2:F:25:CYS:HG	1.76	0.48
3:G:533:SER:OG	3:G:534:PRO:CD	2.60	0.48
3:G:731:MET:HG2	3:G:737:GLN:HB3	1.95	0.48
3:G:843:LEU:HD11	3:G:845:LEU:HD23	1.92	0.48
3:G:922:ARG:NH1	3:G:950:LYS:HD2	2.26	0.48
3:G:1277:GLU:OE1	3:G:1337:PHE:CZ	2.66	0.48
4:H:540:ILE:O	4:H:541:PRO:O	2.31	0.48
1:A:142:ILE:HD11	1:A:189:LEU:HB3	1.93	0.48
1:A:147:LYS:CB	1:A:155:ARG:CZ	2.92	0.48
1:A:157:TRP:CE3	1:A:166:HIS:O	2.67	0.48
2:B:235:ARG:HD3	3:C:898:ILE:HB	1.95	0.48
2:B:421:GLN:O	2:B:425:GLN:HG3	2.14	0.48
3:C:349:TYR:O	3:C:359:VAL:HG13	2.13	0.48
3:C:484:LEU:HD12	3:C:488:LEU:CD2	2.44	0.48
3:C:507:LEU:HD12	3:C:507:LEU:N	2.24	0.48
3:C:760:ASN:HB3	3:C:944:ILE:HD11	1.96	0.48
3:C:1192:ALA:C	3:C:1193:TYR:HD1	2.17	0.48
4:D:332:GLU:OE2	4:D:332:GLU:CA	2.62	0.48
4:D:400:ASP:O	4:D:402:PHE:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:TYR:HD2	1:E:66:LEU:HD21	1.78	0.48
2:F:308:GLN:HE22	2:F:383:GLY:N	2.10	0.48
3:G:585:VAL:HB	3:G:621:PHE:CD2	2.49	0.48
3:G:693:VAL:HG23	3:G:694:GLU:N	2.28	0.48
3:G:1097:GLY:O	3:G:1100:LEU:N	2.41	0.48
3:G:1425:LYS:O	3:G:1428:GLN:N	2.47	0.48
4:H:170:VAL:CG1	4:H:594:GLN:HG3	2.43	0.48
4:H:244:LEU:O	4:H:246:PRO:HD3	2.13	0.48
4:H:256:GLN:C	4:H:272:LEU:HD12	2.34	0.48
4:H:525:PHE:CD1	4:H:529:ALA:HB3	2.49	0.48
1:A:110:ILE:HG12	1:A:305:LEU:CD2	2.42	0.48
1:A:160:SER:HB3	1:A:166:HIS:CD2	2.49	0.48
1:A:279:TYR:CE1	1:A:283:ILE:HG13	2.49	0.48
2:B:146:ASP:O	2:B:147:SER:O	2.32	0.48
2:B:370:ILE:HG22	2:B:370:ILE:O	2.13	0.48
2:B:425:GLN:O	2:B:428:PHE:N	2.47	0.48
3:C:433:LYS:O	3:C:454:GLU:HB3	2.13	0.48
3:C:843:LEU:HD23	3:C:981:ARG:O	2.13	0.48
3:C:846:ASP:HA	3:C:847:PRO:HD2	1.73	0.48
3:C:854:LYS:O	3:C:856:ILE:HD12	2.14	0.48
3:C:1019:PHE:O	3:C:1020:LYS:C	2.49	0.48
3:C:1118:GLU:O	3:C:1122:ASN:ND2	2.47	0.48
3:C:1211:TYR:CA	3:C:1215:GLN:HB2	2.42	0.48
3:C:1305:PRO:O	3:C:1307:LEU:N	2.46	0.48
3:C:1426:VAL:O	3:C:1429:ASP:HB2	2.13	0.48
4:D:288:LEU:O	4:D:289:SER:C	2.51	0.48
4:D:376:ILE:HD11	4:D:464:ILE:HD11	1.95	0.48
2:F:192:LEU:HA	2:F:195:PHE:CD2	2.48	0.48
2:F:371:ILE:CD1	2:F:384:CYS:HB3	2.42	0.48
3:G:602:ILE:HG22	3:G:603:GLU:OE1	2.13	0.48
3:G:1077:LEU:HD23	3:G:1077:LEU:N	2.28	0.48
3:G:1217:HIS:CD2	3:G:1246:PHE:HZ	2.32	0.48
4:H:403:LYS:HZ3	4:H:442:TYR:HD1	1.61	0.48
1:A:89:ASN:HD22	1:A:89:ASN:N	2.10	0.48
1:A:188:TYR:CZ	2:B:202:LEU:HD12	2.48	0.48
2:B:447:PHE:O	2:B:447:PHE:CD2	2.66	0.48
3:C:953:ALA:CA	3:C:956:MET:HG2	2.43	0.48
3:C:1088:ALA:O	3:C:1092:GLY:N	2.41	0.48
4:D:382:LEU:HD22	4:D:401:ILE:HG21	1.95	0.48
1:E:168:TRP:CH2	1:E:320:PRO:HD3	2.49	0.48
2:F:164:GLN:NE2	2:F:176:LEU:CD1	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:258:THR:C	2:F:260:GLN:N	2.67	0.48
2:F:260:GLN:NE2	2:F:260:GLN:HA	2.29	0.48
2:F:306:ARG:NE	2:F:345:TYR:HE1	2.12	0.48
2:F:413:ASP:HA	2:F:416:LYS:HD3	1.96	0.48
3:G:364:LYS:HZ3	3:G:538:VAL:HG23	1.77	0.48
3:G:700:LEU:C	3:G:701:ILE:HG22	2.32	0.48
3:G:725:MET:CA	3:G:728:ILE:HD11	2.38	0.48
3:G:725:MET:O	3:G:728:ILE:HG13	2.14	0.48
3:G:796:PHE:CD1	3:G:910:ILE:HG12	2.48	0.48
3:G:966:ARG:O	3:G:967:PHE:HD2	1.96	0.48
4:H:252:THR:HG22	4:H:305:GLU:HB2	1.95	0.48
4:H:435:TYR:HD2	4:H:518:MET:CE	2.26	0.48
1:A:5:ASP:HA	1:A:6:PRO:HD2	1.73	0.48
2:B:49:ARG:HB2	2:B:102:SER:CB	2.33	0.48
2:B:365:PHE:CD1	2:B:369:LYS:HD3	2.49	0.48
2:B:443:HIS:ND1	2:B:443:HIS:C	2.66	0.48
3:C:975:LEU:O	3:C:978:TYR:HB3	2.13	0.48
3:C:1019:PHE:HE1	3:C:1040:ILE:HG21	1.77	0.48
3:C:1142:ASP:O	3:C:1144:GLN:N	2.46	0.48
3:C:1149:LYS:HD3	3:C:1150:LYS:HG3	1.95	0.48
3:C:1283:CYS:HB2	3:C:1310:CYS:SG	2.54	0.48
3:C:1363:GLN:OE1	3:C:1370:LEU:HD23	2.13	0.48
3:C:1425:LYS:O	3:C:1428:GLN:N	2.47	0.48
3:C:1432:LYS:HA	3:C:1435:ASN:HD22	1.79	0.48
4:D:164:ARG:HH11	4:D:164:ARG:CG	2.27	0.48
1:E:114:ASP:O	1:E:304:ARG:NH1	2.46	0.48
1:E:161:GLY:HA3	1:E:324:HIS:HD2	1.78	0.48
3:G:439:TYR:CD2	3:G:440:ALA:N	2.82	0.48
3:G:586:VAL:CB	3:G:742:LEU:HD21	2.43	0.48
3:G:588:LYS:HB2	3:G:589:PRO:HD2	1.95	0.48
3:G:861:PHE:CD2	3:G:1038:ILE:HA	2.48	0.48
4:H:296:LEU:HD23	4:H:300:GLN:HE22	1.77	0.48
4:H:394:LEU:HD22	4:H:401:ILE:HD13	1.95	0.48
4:H:400:ASP:O	4:H:402:PHE:N	2.46	0.48
4:H:520:ILE:CG2	4:H:521:ASP:N	2.74	0.48
1:A:352:PHE:O	1:A:356:GLU:HG3	2.14	0.48
2:B:78:LEU:HD12	2:B:130:PHE:CE2	2.49	0.48
3:C:437:LYS:CB	3:C:802:ILE:HD11	2.43	0.48
3:C:693:VAL:CG1	3:C:755:ILE:HG22	2.44	0.48
3:C:852:TYR:CE1	3:C:999:ILE:HG21	2.49	0.48
3:C:864:LEU:N	3:C:866:PRO:HD2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:935:ASN:HD22	3:C:936:PRO:N	2.11	0.48
3:C:1083:ASP:O	3:C:1135:ILE:HG23	2.13	0.48
1:E:151:GLY:O	1:E:153:LYS:HG2	2.13	0.48
1:E:262:SER:O	1:E:268:ARG:NH2	2.46	0.48
2:F:38:SER:HA	3:G:1447:SER:O	2.13	0.48
2:F:51:LYS:NZ	2:F:260:GLN:HG2	2.28	0.48
2:F:362:TYR:O	2:F:362:TYR:CD2	2.67	0.48
2:F:385:PRO:CG	2:F:386:PHE:H	2.21	0.48
2:F:389:SER:CB	2:F:397:LYS:HZ1	2.24	0.48
2:F:441:LEU:CD2	2:F:447:PHE:HD1	2.26	0.48
3:G:563:LEU:CD2	3:G:746:TRP:HE1	2.26	0.48
3:G:683:ASN:N	3:G:683:ASN:ND2	2.62	0.48
3:G:803:VAL:HB	3:G:804:PRO:HD3	1.92	0.48
3:G:988:LYS:HE2	3:G:988:LYS:HB3	1.63	0.48
3:G:1334:ILE:O	3:G:1334:ILE:CG2	2.61	0.48
3:G:1335:ARG:NH2	4:H:431:HIS:O	2.45	0.48
4:H:297:PHE:CZ	4:H:300:GLN:HA	2.49	0.48
4:H:344:VAL:HG11	4:H:539:ILE:HG21	1.96	0.48
4:H:571:PHE:HE2	4:H:597:ARG:O	1.97	0.48
1:A:26:TYR:OH	1:A:80:ILE:HG12	2.14	0.47
1:A:146:LEU:HB2	1:A:155:ARG:CD	2.41	0.47
3:C:1044:PHE:CD1	3:C:1057:ALA:HB1	2.49	0.47
4:D:196:LEU:HG	4:D:197:GLY:N	2.29	0.47
4:D:458:GLU:OE1	4:D:472:THR:HA	2.12	0.47
4:D:494:ARG:O	4:D:497:ARG:HB3	2.14	0.47
4:D:548:VAL:HG22	4:D:557:VAL:HG13	1.96	0.47
4:D:561:ARG:HG3	4:D:564:LYS:NZ	2.29	0.47
1:E:137:MET:HE3	1:E:301:CYS:HB3	1.96	0.47
1:E:150:PHE:HB3	1:E:152:PHE:CE1	2.48	0.47
1:E:389:ALA:N	1:E:390:PRO:HD2	2.29	0.47
2:F:26:LEU:HG	2:F:131:ARG:HB3	1.95	0.47
2:F:94:GLU:HG3	2:F:95:PRO:CD	2.43	0.47
2:F:425:GLN:O	2:F:428:PHE:N	2.47	0.47
3:G:589:PRO:HG3	3:G:592:CYS:HB2	1.95	0.47
3:G:618:LEU:O	3:G:621:PHE:HB3	2.13	0.47
3:G:944:ILE:O	3:G:946:GLN:N	2.46	0.47
3:G:1047:LEU:HD12	3:G:1056:ALA:O	2.14	0.47
3:G:1345:TRP:CE3	3:G:1345:TRP:HA	2.47	0.47
4:H:227:LEU:HD11	4:H:231:LEU:HD21	1.94	0.47
1:A:202:VAL:HG11	1:A:298:LEU:CB	2.43	0.47
2:B:433:ASN:C	2:B:434:VAL:HG12	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:195:VAL:HA	4:D:462:LEU:HD12	1.96	0.47
4:D:343:LEU:O	4:D:344:VAL:HG13	2.14	0.47
4:D:477:LEU:HD11	4:D:540:ILE:HB	1.95	0.47
4:D:561:ARG:HG3	4:D:564:LYS:HE2	1.96	0.47
2:F:146:ASP:O	2:F:147:SER:O	2.32	0.47
2:F:266:GLY:O	2:F:267:ASN:O	2.32	0.47
3:G:362:PHE:N	3:G:362:PHE:CD1	2.82	0.47
3:G:983:ILE:O	3:G:983:ILE:CG2	2.62	0.47
3:G:1094:PHE:C	3:G:1094:PHE:CD1	2.88	0.47
3:G:1279:PHE:HB2	3:G:1395:TYR:HE1	1.79	0.47
4:H:157:PRO:C	4:H:158:SER:OG	2.53	0.47
4:H:171:VAL:HG23	4:H:595:VAL:HG12	1.96	0.47
4:H:194:LYS:HG3	4:H:463:SER:CB	2.26	0.47
4:H:407:ARG:O	4:H:410:ILE:N	2.48	0.47
1:A:147:LYS:CB	1:A:155:ARG:NH2	2.77	0.47
1:A:226:TYR:HA	1:A:230:ASN:HB2	1.96	0.47
1:A:276:ALA:HA	1:A:279:TYR:HB3	1.97	0.47
2:B:135:LEU:HB2	2:B:140:ILE:CG1	2.44	0.47
3:C:543:SER:HB2	3:C:749:ALA:H	1.76	0.47
3:C:664:ARG:HE	3:C:688:ARG:NH2	2.11	0.47
3:C:978:TYR:N	3:C:981:ARG:HH22	2.11	0.47
3:C:1007:MET:C	3:C:1008:ILE:HG13	2.35	0.47
3:C:1425:LYS:HG2	3:C:1429:ASP:OD2	2.14	0.47
1:E:112:MET:HB2	1:E:163:ARG:HB2	1.97	0.47
1:E:208:ILE:HG22	1:E:208:ILE:O	2.14	0.47
2:F:23:PRO:HD2	2:F:25:CYS:CB	2.43	0.47
2:F:309:TYR:O	2:F:310:GLY:C	2.51	0.47
2:F:374:ASN:O	2:F:375:PRO:C	2.51	0.47
3:G:371:GLU:O	3:G:371:GLU:HG2	2.14	0.47
3:G:532:VAL:HG12	3:G:533:SER:N	2.28	0.47
3:G:1050:LEU:HD13	3:G:1226:PRO:CG	2.43	0.47
3:G:1178:VAL:O	3:G:1179:ILE:HD13	2.14	0.47
4:H:247:ALA:O	4:H:309:THR:HA	2.14	0.47
4:H:297:PHE:CE2	4:H:300:GLN:HG3	2.48	0.47
4:H:364:ILE:CA	4:H:367:ILE:HG13	2.45	0.47
4:H:497:ARG:O	4:H:498:ILE:C	2.51	0.47
1:A:114:ASP:O	1:A:304:ARG:HD2	2.14	0.47
1:A:389:ALA:N	1:A:390:PRO:HD2	2.30	0.47
2:B:77:GLU:C	2:B:79:ARG:N	2.66	0.47
2:B:128:LEU:HD11	2:B:132:PHE:CE2	2.49	0.47
2:B:135:LEU:HB2	2:B:140:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:309:TYR:O	2:B:310:GLY:C	2.51	0.47
3:C:682:ARG:C	3:C:682:ARG:CD	2.79	0.47
3:C:796:PHE:CE1	3:C:910:ILE:HG21	2.49	0.47
3:C:855:PHE:C	3:C:856:ILE:HD12	2.34	0.47
3:C:944:ILE:O	3:C:946:GLN:N	2.47	0.47
3:C:1384:SER:OG	3:C:1386:LYS:N	2.47	0.47
4:D:198:CYS:O	4:D:199:PRO:C	2.51	0.47
4:D:382:LEU:CD1	4:D:389:VAL:HG21	2.41	0.47
1:E:37:LYS:NZ	1:E:42:HIS:CE1	2.82	0.47
1:E:131:CYS:HA	1:E:226:TYR:HE1	1.79	0.47
2:F:26:LEU:HB3	2:F:143:PHE:CZ	2.49	0.47
2:F:302:ARG:HH12	2:F:379:GLY:HA3	1.79	0.47
3:G:392:ARG:NH2	3:G:474:SER:HA	2.29	0.47
3:G:548:GLN:H	3:G:725:MET:HE3	1.79	0.47
3:G:559:ALA:HA	3:G:585:VAL:O	2.13	0.47
3:G:711:LEU:HB3	3:G:755:ILE:HD11	1.96	0.47
3:G:790:PHE:HA	3:G:793:LEU:HD12	1.96	0.47
3:G:919:VAL:O	3:G:919:VAL:HG12	2.14	0.47
3:G:994:MET:O	3:G:996:LEU:HG	2.13	0.47
3:G:1157:VAL:HG21	3:G:1177:TYR:HB3	1.95	0.47
4:H:212:LYS:O	4:H:213:LEU:C	2.53	0.47
4:H:378:PHE:CD2	4:H:541:PRO:HG2	2.49	0.47
4:H:574:LEU:HA	4:H:593:VAL:HG22	1.96	0.47
1:A:145:ALA:O	1:A:147:LYS:N	2.47	0.47
1:A:219:ILE:HG22	1:A:219:ILE:O	2.14	0.47
2:B:117:ARG:HG2	2:B:230:LEU:HB3	1.95	0.47
2:B:258:THR:O	2:B:260:GLN:N	2.46	0.47
2:B:369:LYS:C	2:B:371:ILE:H	2.17	0.47
3:C:553:HIS:CG	3:C:554:GLN:N	2.82	0.47
3:C:583:PHE:CZ	3:C:625:LYS:HG3	2.49	0.47
3:C:599:LYS:HE2	3:C:611:VAL:CG1	2.42	0.47
3:C:721:VAL:CG1	3:C:722:VAL:N	2.78	0.47
3:C:760:ASN:O	3:C:764:LEU:HB2	2.14	0.47
3:C:762:LEU:HD23	3:C:762:LEU:N	2.29	0.47
3:C:955:SER:O	3:C:956:MET:C	2.51	0.47
3:C:1091:THR:O	3:C:1095:VAL:HG23	2.15	0.47
3:C:1294:ASN:ND2	3:C:1295:VAL:N	2.62	0.47
4:D:222:CYS:O	4:D:223:LYS:C	2.53	0.47
4:D:334:ASP:HA	4:D:337:PHE:CE2	2.50	0.47
4:D:378:PHE:CE2	4:D:541:PRO:HG2	2.50	0.47
4:D:398:PHE:CD1	4:D:429:VAL:HG11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:276:ALA:O	1:E:279:TYR:HB3	2.15	0.47
1:E:349:THR:HG22	1:E:351:SER:HB3	1.97	0.47
2:F:308:GLN:HA	2:F:365:PHE:CD2	2.49	0.47
2:F:428:PHE:CD1	2:F:432:HIS:CE1	3.03	0.47
2:F:447:PHE:CD2	2:F:447:PHE:O	2.68	0.47
2:F:447:PHE:CD2	2:F:447:PHE:C	2.87	0.47
3:G:607:VAL:O	3:G:609:VAL:HG12	2.14	0.47
3:G:1035:LEU:O	3:G:1036:LEU:O	2.32	0.47
3:G:1142:ASP:O	3:G:1144:GLN:N	2.47	0.47
3:G:1224:CYS:O	3:G:1225:GLU:C	2.51	0.47
3:G:1357:THR:HG23	3:G:1359:HIS:N	2.29	0.47
4:H:596:VAL:HG12	4:H:597:ARG:O	2.15	0.47
1:A:129:PRO:HA	1:A:345:PHE:CZ	2.50	0.47
1:A:174:VAL:HA	1:A:177:LEU:CG	2.44	0.47
2:B:38:SER:HA	3:C:1447:SER:O	2.15	0.47
2:B:152:GLU:OE2	2:B:185:LYS:HE2	2.14	0.47
2:B:311:LEU:O	2:B:312:PHE:C	2.52	0.47
2:B:337:ASP:HB3	2:B:340:LYS:HB2	1.97	0.47
3:C:353:TYR:CD2	3:C:354:ASN:ND2	2.83	0.47
3:C:549:ASN:HD21	3:C:552:ASN:CA	2.27	0.47
3:C:919:VAL:O	3:C:919:VAL:HG12	2.14	0.47
3:C:932:GLN:O	3:C:933:ASP:HB2	2.14	0.47
3:C:972:LEU:CD2	3:C:972:LEU:N	2.72	0.47
3:C:1222:ARG:HG3	3:C:1222:ARG:NH1	2.30	0.47
3:C:1245:GLN:HG3	3:C:1249:HIS:CE1	2.49	0.47
3:C:1279:PHE:CE1	3:C:1330:LEU:HD23	2.48	0.47
1:E:68:LYS:O	1:E:68:LYS:HD2	2.15	0.47
1:E:106:LEU:HG	1:E:108:PHE:CE1	2.50	0.47
2:F:137:LYS:HZ1	2:F:181:GLU:CG	2.28	0.47
3:G:579:PHE:HD1	3:G:579:PHE:H	1.61	0.47
3:G:722:VAL:HG12	3:G:723:ILE:H	1.79	0.47
3:G:756:MET:SD	3:G:762:LEU:CD2	3.01	0.47
3:G:1405:LEU:HD23	3:G:1405:LEU:HA	1.58	0.47
3:G:1431:ARG:HH11	3:G:1431:ARG:HG3	1.79	0.47
4:H:210:PHE:CD1	4:H:210:PHE:C	2.88	0.47
4:H:292:LYS:CG	4:H:293:GLU:N	2.58	0.47
1:A:202:VAL:HG21	1:A:299:GLN:N	2.30	0.47
1:A:390:PRO:HG2	1:A:391:TYR:CE1	2.50	0.47
2:B:33:PRO:HD3	2:B:104:PHE:CD2	2.50	0.47
2:B:419:HIS:O	2:B:422:VAL:HB	2.13	0.47
2:B:428:PHE:CE1	2:B:432:HIS:CE1	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:398:LEU:HD12	3:C:470:GLY:HA2	1.96	0.47
3:C:586:VAL:HG11	3:C:742:LEU:HD11	1.96	0.47
3:C:631:PRO:HD2	3:C:688:ARG:HH12	1.80	0.47
3:C:700:LEU:HD21	3:C:764:LEU:HD11	1.96	0.47
3:C:702:ARG:C	3:C:703:CYS:SG	2.93	0.47
3:C:859:LEU:O	3:C:860:ASP:OD1	2.33	0.47
3:C:1001:GLY:O	3:C:1002:ASP:HB2	2.14	0.47
3:C:1047:LEU:CG	3:C:1049:LEU:CD2	2.81	0.47
3:C:1098:GLN:NE2	3:C:1111:ASN:OD1	2.48	0.47
4:D:252:THR:HG23	4:D:305:GLU:HG3	1.95	0.47
4:D:363:LEU:HD13	4:D:562:LEU:HD11	1.97	0.47
4:D:526:TYR:CD2	4:D:526:TYR:O	2.68	0.47
1:E:48:THR:HB	1:E:77:LYS:HB2	1.96	0.47
1:E:96:LEU:HG	3:G:906:LEU:HD23	1.97	0.47
1:E:109:ASP:O	1:E:305:LEU:HD22	2.15	0.47
1:E:141:ILE:HD12	1:E:303:PRO:CD	2.45	0.47
1:E:170:CYS:O	1:E:175:ARG:NH1	2.47	0.47
1:E:202:VAL:HG23	1:E:299:GLN:HG3	1.97	0.47
1:E:209:HIS:ND1	1:E:210:PRO:N	2.63	0.47
1:E:357:LEU:HA	1:E:360:ILE:HD12	1.95	0.47
2:F:83:PHE:CE2	2:F:99:ASP:HA	2.49	0.47
2:F:385:PRO:O	2:F:387:ARG:N	2.48	0.47
3:G:531:ASP:O	3:G:532:VAL:CG2	2.62	0.47
3:G:558:ILE:O	3:G:558:ILE:CG1	2.62	0.47
3:G:588:LYS:HD2	3:G:592:CYS:O	2.14	0.47
3:G:661:LYS:O	3:G:663:GLY:N	2.47	0.47
3:G:843:LEU:HD11	3:G:845:LEU:CG	2.44	0.47
3:G:849:VAL:CG1	3:G:1226:PRO:HA	2.45	0.47
3:G:876:PHE:CA	3:G:881:ARG:HH12	2.25	0.47
3:G:932:GLN:O	3:G:933:ASP:HB2	2.14	0.47
3:G:948:ALA:C	3:G:950:LYS:N	2.67	0.47
3:G:990:MET:O	3:G:993:LYS:HB3	2.15	0.47
3:G:1105:ARG:HB2	3:G:1105:ARG:HH11	1.79	0.47
3:G:1180:CYS:SG	3:G:1193:TYR:CG	3.08	0.47
3:G:1290:ASN:ND2	3:G:1292:TYR:CE1	2.78	0.47
4:H:196:LEU:CG	4:H:197:GLY:N	2.78	0.47
4:H:435:TYR:CD2	4:H:518:MET:CE	2.97	0.47
4:H:435:TYR:CD1	4:H:436:PRO:HA	2.49	0.47
1:A:40:PHE:CE2	1:A:45:PHE:CZ	3.03	0.47
1:A:187:GLU:OE1	2:B:196:ARG:HG3	2.15	0.47
1:A:204:LEU:HD11	1:A:298:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:46:ALA:O	2:B:106:LEU:HD11	2.15	0.47
2:B:225:LYS:O	2:B:228:LYS:HB3	2.14	0.47
2:B:274:ASP:OD2	2:B:274:ASP:N	2.48	0.47
2:B:403:ILE:O	2:B:404:SER:C	2.53	0.47
3:C:528:VAL:HG12	3:C:529:ILE:N	2.30	0.47
3:C:875:CYS:HB2	3:C:912:PRO:HD3	1.96	0.47
3:C:948:ALA:C	3:C:950:LYS:N	2.68	0.47
3:C:1081:ARG:HD2	3:C:1352:THR:O	2.15	0.47
3:C:1281:CYS:SG	3:C:1326:LEU:HD23	2.55	0.47
4:D:510:PRO:HG2	4:D:511:LEU:H	1.78	0.47
1:E:112:MET:HE3	1:E:127:ILE:HG22	1.96	0.47
2:F:369:LYS:C	2:F:371:ILE:N	2.68	0.47
2:F:403:ILE:O	2:F:404:SER:C	2.51	0.47
3:G:387:LEU:CD2	3:G:479:THR:N	2.78	0.47
3:G:413:VAL:HG22	3:G:472:THR:HB	1.96	0.47
3:G:637:HIS:N	3:G:639:ILE:HD11	2.29	0.47
3:G:1104:SER:O	3:G:1105:ARG:C	2.53	0.47
4:H:230:GLU:OE1	4:H:506:ARG:NH2	2.47	0.47
4:H:357:TYR:HB3	4:H:360:LEU:HD23	1.96	0.47
4:H:411:GLU:C	4:H:413:THR:N	2.64	0.47
1:A:353:ILE:CB	1:A:386:THR:HG21	2.44	0.47
1:A:357:LEU:HA	1:A:360:ILE:HD12	1.97	0.47
2:B:323:ALA:O	2:B:327:TRP:HD1	1.98	0.47
3:C:547:MET:SD	3:C:728:ILE:HG21	2.55	0.47
3:C:703:CYS:SG	3:C:706:TYR:CZ	3.08	0.47
3:C:1357:THR:HG23	3:C:1357:THR:O	2.15	0.47
3:C:1384:SER:OG	3:C:1385:ASP:N	2.48	0.47
4:D:185:ARG:H	4:D:185:ARG:CD	2.27	0.47
4:D:426:LEU:HG	4:D:437:GLN:HE21	1.80	0.47
4:D:495:PHE:O	4:D:497:ARG:N	2.47	0.47
3:G:596:TYR:CG	3:G:597:ALA:N	2.83	0.47
3:G:1074:LEU:HD21	3:G:1100:LEU:HD11	1.97	0.47
3:G:1330:LEU:O	3:G:1331:ILE:C	2.52	0.47
4:H:343:LEU:CG	4:H:344:VAL:N	2.78	0.47
4:H:497:ARG:O	4:H:500:LYS:N	2.48	0.47
1:A:187:GLU:OE2	2:B:196:ARG:HD2	2.15	0.47
1:A:292:LEU:HD23	1:A:295:GLU:OE1	2.15	0.47
2:B:154:ILE:HD11	2:B:183:ILE:HG22	1.96	0.47
3:C:487:PHE:O	3:C:488:LEU:C	2.53	0.47
3:C:492:LYS:O	3:C:494:LYS:CD	2.63	0.47
3:C:711:LEU:HB3	3:C:755:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:863:SER:OG	3:C:954:ASN:ND2	2.48	0.47
3:C:1097:GLY:C	3:C:1099:ILE:N	2.68	0.47
3:C:1114:LYS:O	3:C:1117:ILE:HB	2.15	0.47
3:C:1154:HIS:CG	3:C:1155:VAL:H	2.32	0.47
3:C:1178:VAL:O	3:C:1179:ILE:HD13	2.14	0.47
3:C:1251:TYR:HD1	3:C:1254:ASP:N	2.06	0.47
4:D:357:TYR:CE2	4:D:405:CYS:SG	3.08	0.47
1:E:103:GLU:OE1	1:E:176:LYS:HB3	2.13	0.47
1:E:335:ASP:HB3	1:E:338:LYS:CG	2.44	0.47
2:F:122:GLN:HG2	2:F:123:GLN:NE2	2.29	0.47
2:F:229:ALA:C	2:F:231:ALA:N	2.66	0.47
3:G:377:CYS:O	3:G:517:GLU:HA	2.15	0.47
3:G:507:LEU:O	3:G:508:ASN:C	2.53	0.47
3:G:853:ASP:HB3	3:G:854:LYS:CD	2.44	0.47
3:G:1278:ARG:HD3	3:G:1293:ASP:HB3	1.96	0.47
3:G:1348:CYS:O	3:G:1354:ARG:NH1	2.42	0.47
4:H:224:ILE:HD11	4:H:256:GLN:HB3	1.96	0.47
4:H:266:ASN:OD1	4:H:268:LYS:HB2	2.15	0.47
4:H:345:ALA:HB1	4:H:562:LEU:CD1	2.45	0.47
1:A:40:PHE:CE2	1:A:45:PHE:HZ	2.33	0.46
1:A:397:HIS:O	1:A:401:ASN:ND2	2.49	0.46
2:B:22:TYR:HB3	2:B:23:PRO:CD	2.45	0.46
2:B:136:PRO:C	2:B:138:ASP:N	2.67	0.46
2:B:280:SER:CA	2:B:284:PHE:CE1	2.97	0.46
2:B:445:ASN:O	2:B:448:PHE:CB	2.59	0.46
3:C:519:MET:SD	3:C:520:ALA:N	2.88	0.46
3:C:589:PRO:CG	3:C:592:CYS:CB	2.93	0.46
3:C:689:MET:SD	3:C:776:MET:CG	2.98	0.46
3:C:920:GLU:HA	3:C:923:LYS:HD2	1.95	0.46
3:C:938:LEU:HD12	3:C:941:GLN:HG3	1.97	0.46
3:C:976:VAL:O	3:C:977:THR:C	2.52	0.46
4:D:407:ARG:O	4:D:410:ILE:N	2.48	0.46
1:E:89:ASN:HD22	1:E:89:ASN:H	1.55	0.46
1:E:134:LEU:CD2	1:E:226:TYR:HE2	2.28	0.46
1:E:158:VAL:HG13	1:E:332:VAL:C	2.35	0.46
1:E:187:GLU:CD	2:F:196:ARG:HB2	2.35	0.46
1:E:313:ILE:O	1:E:313:ILE:CG1	2.62	0.46
3:G:365:VAL:O	3:G:373:HIS:HB3	2.15	0.46
3:G:792:LEU:O	3:G:793:LEU:C	2.53	0.46
3:G:796:PHE:CE2	3:G:910:ILE:HG21	2.50	0.46
3:G:868:ILE:HG23	3:G:872:PHE:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:988:LYS:HG3	3:G:998:VAL:HG11	1.97	0.46
3:G:1430:TYR:O	3:G:1432:LYS:N	2.49	0.46
4:H:193:LEU:HD23	4:H:193:LEU:HA	1.69	0.46
4:H:334:ASP:HA	4:H:337:PHE:HD2	1.80	0.46
1:A:21:PHE:CE2	1:A:321:PHE:O	2.68	0.46
1:A:141:ILE:HD13	1:A:303:PRO:HD2	1.97	0.46
1:A:158:VAL:HG13	1:A:332:VAL:C	2.35	0.46
1:A:191:LEU:HB2	1:A:302:PHE:CE1	2.51	0.46
2:B:234:ALA:O	2:B:237:LEU:N	2.36	0.46
3:C:618:LEU:HD22	3:C:619:LEU:CD2	2.45	0.46
3:C:651:ILE:HG23	3:C:652:ASN:H	1.78	0.46
3:C:722:VAL:HG12	3:C:723:ILE:H	1.81	0.46
3:C:935:ASN:C	3:C:937:ASP:H	2.19	0.46
3:C:1222:ARG:CG	3:C:1222:ARG:NH1	2.77	0.46
1:E:49:LEU:CB	1:E:50:LYS:HZ2	2.27	0.46
1:E:112:MET:CE	1:E:127:ILE:HG22	2.45	0.46
3:G:710:GLU:O	3:G:712:VAL:N	2.48	0.46
3:G:926:LYS:HD2	3:G:926:LYS:HA	1.74	0.46
3:G:1015:LEU:HD11	3:G:1019:PHE:CD2	2.50	0.46
3:G:1115:ARG:O	3:G:1116:LEU:C	2.52	0.46
3:G:1221:ALA:C	3:G:1223:ILE:H	2.18	0.46
4:H:228:GLY:O	4:H:229:SER:C	2.52	0.46
1:A:234:LEU:HD21	1:A:243:ILE:CG1	2.45	0.46
2:B:195:PHE:CD1	2:B:195:PHE:C	2.89	0.46
2:B:310:GLY:HA2	2:B:327:TRP:HZ2	1.80	0.46
2:B:443:HIS:O	2:B:446:GLN:HB3	2.15	0.46
3:C:346:LEU:HD13	3:C:632:ASP:OD2	2.16	0.46
3:C:410:MET:SD	3:C:434:PRO:CB	2.96	0.46
3:C:615:GLU:O	3:C:619:LEU:HD23	2.15	0.46
3:C:639:ILE:HG21	3:C:690:ILE:CG2	2.46	0.46
3:C:742:LEU:O	3:C:743:GLU:C	2.54	0.46
3:C:858:LEU:HD13	3:C:1007:MET:CB	2.46	0.46
3:C:1392:LEU:HD23	3:C:1392:LEU:HA	1.71	0.46
4:D:253:LEU:HD11	4:D:314:LEU:HD22	1.96	0.46
2:F:22:TYR:HB3	2:F:84:SER:OG	2.15	0.46
2:F:94:GLU:CB	2:F:95:PRO:CD	2.93	0.46
2:F:403:ILE:HA	2:F:403:ILE:HD13	1.70	0.46
3:G:610:GLU:O	3:G:610:GLU:HG3	2.15	0.46
3:G:659:TRP:CD2	3:G:660:SER:N	2.82	0.46
3:G:860:ASP:O	3:G:1038:ILE:HD12	2.16	0.46
3:G:977:THR:O	3:G:981:ARG:NH1	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:982:GLU:C	3:G:984:LEU:N	2.68	0.46
3:G:984:LEU:O	3:G:987:THR:HB	2.15	0.46
3:G:997:GLU:O	3:G:997:GLU:HG2	2.14	0.46
3:G:1050:LEU:O	3:G:1051:LYS:HG2	2.14	0.46
3:G:1097:GLY:C	3:G:1099:ILE:N	2.66	0.46
3:G:1223:ILE:HG22	3:G:1223:ILE:O	2.16	0.46
3:G:1430:TYR:O	3:G:1431:ARG:C	2.53	0.46
4:H:407:ARG:NH1	4:H:411:GLU:OE2	2.49	0.46
4:H:546:TYR:O	4:H:547:PHE:CB	2.60	0.46
1:A:113:THR:O	1:A:116:ASP:OD2	2.34	0.46
1:A:209:HIS:CE1	1:A:210:PRO:HB2	2.50	0.46
2:B:35:GLU:OE2	2:B:97:ARG:NH2	2.49	0.46
2:B:81:LEU:HD23	2:B:81:LEU:HA	1.61	0.46
2:B:235:ARG:NH1	3:C:978:TYR:CE2	2.84	0.46
2:B:251:ASN:C	2:B:252:HIS:HD2	2.18	0.46
2:B:351:HIS:O	2:B:352:SER:C	2.54	0.46
2:B:355:LYS:HZ3	3:C:1247:ARG:NH2	2.13	0.46
2:B:428:PHE:CD1	2:B:432:HIS:CE1	3.03	0.46
2:B:454:ILE:HD12	2:B:454:ILE:HA	1.74	0.46
3:C:788:ASN:O	3:C:791:LEU:N	2.49	0.46
3:C:944:ILE:HG13	3:C:947:LYS:HZ1	1.80	0.46
3:C:953:ALA:O	3:C:956:MET:CG	2.64	0.46
3:C:1055:TYR:CD1	3:C:1055:TYR:C	2.89	0.46
4:D:253:LEU:N	4:D:253:LEU:HD23	2.31	0.46
4:D:295:SER:HG	4:D:501:HIS:CE1	2.27	0.46
4:D:553:GLY:O	4:D:586:ARG:NH2	2.48	0.46
1:E:43:ARG:CZ	1:E:83:VAL:HG22	2.44	0.46
1:E:381:ARG:O	1:E:384:LYS:HB2	2.15	0.46
2:F:105:ILE:C	2:F:107:ARG:H	2.18	0.46
2:F:114:GLU:HA	2:F:117:ARG:NH2	2.30	0.46
2:F:280:SER:O	2:F:289:ARG:HD2	2.16	0.46
3:G:804:PRO:HD2	3:G:967:PHE:HE2	1.81	0.46
3:G:864:LEU:C	3:G:864:LEU:CD1	2.84	0.46
3:G:873:ASN:HD21	3:G:878:THR:HG22	1.77	0.46
4:H:475:ASP:OD1	4:H:542:SER:HA	2.14	0.46
1:A:172:GLU:HA	1:A:175:ARG:HH21	1.81	0.46
2:B:286:PRO:HG2	2:B:386:PHE:CZ	2.46	0.46
2:B:447:PHE:CD2	2:B:447:PHE:C	2.89	0.46
3:C:589:PRO:HD3	3:C:732:TYR:HE1	1.81	0.46
3:C:635:VAL:CG2	3:C:752:ILE:HG22	2.34	0.46
3:C:927:GLN:HE22	3:C:930:LYS:HE3	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:202:LEU:HD11	4:D:437:GLN:O	2.14	0.46
4:D:257:ILE:HG23	4:D:270:VAL:HG13	1.96	0.46
2:F:128:LEU:HD23	2:F:219:LEU:CD2	2.45	0.46
2:F:184:TYR:HE1	2:F:210:PRO:O	1.98	0.46
3:G:364:LYS:HE3	3:G:632:ASP:CG	2.33	0.46
3:G:477:PHE:CD1	3:G:802:ILE:HG21	2.50	0.46
3:G:487:PHE:CE2	3:G:493:ILE:HD11	2.50	0.46
3:G:649:GLN:HB3	4:H:248:GLN:NE2	2.31	0.46
3:G:1236:ALA:O	3:G:1242:ASP:OD2	2.34	0.46
3:G:1388:LEU:HD21	4:H:209:MET:HE2	1.97	0.46
4:H:458:GLU:OE1	4:H:459:PRO:HA	2.16	0.46
1:A:142:ILE:HD12	1:A:189:LEU:HD13	1.98	0.46
2:B:94:GLU:HB3	2:B:95:PRO:CD	2.45	0.46
2:B:144:LEU:O	2:B:145:LYS:C	2.53	0.46
2:B:283:SER:O	2:B:447:PHE:CE2	2.68	0.46
2:B:417:GLY:O	2:B:418:THR:CB	2.64	0.46
2:B:443:HIS:CE1	2:B:445:ASN:CB	2.82	0.46
3:C:365:VAL:O	3:C:373:HIS:HB3	2.15	0.46
3:C:784:ARG:HG2	3:C:784:ARG:NH1	2.30	0.46
3:C:1141:LYS:HZ1	3:C:1147:PRO:HD2	1.79	0.46
4:D:287:ASP:HB2	4:D:313:LYS:HE2	1.97	0.46
4:D:363:LEU:O	4:D:367:ILE:HG12	2.16	0.46
1:E:128:CYS:HA	1:E:345:PHE:CZ	2.51	0.46
1:E:209:HIS:CD2	1:E:210:PRO:HD2	2.51	0.46
1:E:237:LYS:HD2	1:E:256:GLN:OE1	2.15	0.46
2:F:234:ALA:O	2:F:237:LEU:N	2.41	0.46
3:G:651:ILE:HG22	3:G:652:ASN:N	2.31	0.46
3:G:799:ASN:O	3:G:801:TYR:CD1	2.67	0.46
3:G:861:PHE:CD1	3:G:1036:LEU:HD11	2.51	0.46
3:G:910:ILE:HD12	3:G:910:ILE:N	2.29	0.46
3:G:1184:SER:O	3:G:1186:LEU:N	2.48	0.46
3:G:1201:GLN:HG2	3:G:1202:ASP:N	2.30	0.46
3:G:1279:PHE:HE1	3:G:1329:LYS:HG3	1.79	0.46
4:H:196:LEU:CD1	4:H:197:GLY:H	2.29	0.46
4:H:288:LEU:O	4:H:291:LEU:N	2.42	0.46
4:H:423:VAL:O	4:H:423:VAL:CG1	2.64	0.46
4:H:509:TYR:CE1	4:H:514:PRO:HB3	2.51	0.46
2:B:26:LEU:HD21	2:B:131:ARG:HB2	1.98	0.46
2:B:136:PRO:CG	2:B:139:LYS:HG2	2.46	0.46
2:B:185:LYS:HG3	2:B:185:LYS:O	2.15	0.46
2:B:311:LEU:HB3	2:B:364:PRO:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:711:LEU:HB3	3:C:755:ILE:CD1	2.45	0.46
3:C:910:ILE:N	3:C:910:ILE:HD12	2.30	0.46
3:C:974:ALA:O	3:C:975:LEU:C	2.54	0.46
3:C:1184:SER:O	3:C:1186:LEU:N	2.48	0.46
3:C:1342:TYR:CB	4:D:519:ALA:HB1	2.46	0.46
1:E:76:TYR:N	1:E:76:TYR:CD1	2.84	0.46
2:F:121:ILE:HG21	2:F:223:ARG:HG3	1.96	0.46
2:F:341:PHE:CE1	2:F:345:TYR:CB	2.99	0.46
3:G:586:VAL:HG11	3:G:742:LEU:HD21	1.98	0.46
3:G:759:LEU:O	3:G:761:VAL:N	2.49	0.46
3:G:954:ASN:ND2	3:G:954:ASN:H	2.13	0.46
3:G:976:VAL:O	3:G:977:THR:C	2.53	0.46
3:G:1088:ALA:O	3:G:1092:GLY:N	2.42	0.46
2:B:200:VAL:CG1	2:B:209:VAL:HG13	2.45	0.46
3:C:346:LEU:HD22	3:C:689:MET:HE1	1.96	0.46
3:C:387:LEU:HD23	3:C:476:VAL:HG22	1.98	0.46
3:C:529:ILE:O	3:C:529:ILE:CG2	2.63	0.46
3:C:754:GLN:O	3:C:757:CYS:N	2.46	0.46
3:C:1160:TRP:CE3	3:C:1161:ILE:HG13	2.47	0.46
4:D:243:LEU:CD2	4:D:253:LEU:HB3	2.45	0.46
1:E:51:ASP:O	1:E:52:ASP:HB3	2.15	0.46
1:E:57:TYR:CD2	1:E:57:TYR:N	2.83	0.46
1:E:237:LYS:HE3	1:E:241:ASP:CG	2.36	0.46
2:F:298:ASN:HD22	2:F:298:ASN:N	2.13	0.46
3:G:345:TRP:C	3:G:346:LEU:HG	2.36	0.46
3:G:416:GLU:OE2	3:G:472:THR:OG1	2.28	0.46
3:G:589:PRO:CD	3:G:592:CYS:HB2	2.44	0.46
3:G:609:VAL:O	3:G:609:VAL:HG22	2.15	0.46
3:G:922:ARG:HH12	3:G:950:LYS:HE3	1.79	0.46
3:G:1130:VAL:HG12	3:G:1198:LEU:HD21	1.98	0.46
3:G:1395:TYR:HA	3:G:1398:ILE:CG1	2.46	0.46
4:H:420:LEU:HB3	4:H:422:PHE:CE2	2.51	0.46
1:A:51:ASP:O	1:A:52:ASP:CB	2.63	0.46
1:A:401:ASN:O	1:A:404:LYS:HB2	2.16	0.46
2:B:441:LEU:CD2	2:B:447:PHE:HD1	2.28	0.46
3:C:1006:ILE:O	3:C:1006:ILE:HG22	2.15	0.46
3:C:1045:LYS:N	3:C:1058:LEU:O	2.47	0.46
3:C:1157:VAL:O	3:C:1161:ILE:HG13	2.16	0.46
4:D:191:ILE:HD11	4:D:373:ASP:OD2	2.16	0.46
4:D:196:LEU:HD23	4:D:468:ILE:HD12	1.98	0.46
4:D:306:GLY:C	4:D:314:LEU:HD11	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:424:PRO:HG2	4:D:458:GLU:HB2	1.98	0.46
1:E:144:ARG:NH1	1:E:211:PHE:CE2	2.84	0.46
1:E:248:PRO:O	1:E:250:THR:N	2.49	0.46
2:F:29:TYR:CB	2:F:103:HIS:CD2	2.97	0.46
2:F:78:LEU:HD23	2:F:83:PHE:HB2	1.98	0.46
2:F:137:LYS:NZ	2:F:181:GLU:HG2	2.31	0.46
2:F:270:LYS:HA	2:F:270:LYS:CE	2.39	0.46
2:F:285:PRO:HB3	2:F:447:PHE:CD2	2.50	0.46
3:G:1130:VAL:CG1	3:G:1198:LEU:HD21	2.46	0.46
3:G:1201:GLN:HG2	3:G:1202:ASP:H	1.81	0.46
1:A:234:LEU:HD21	1:A:243:ILE:HB	1.98	0.46
1:A:382:ASP:CG	1:A:385:LYS:HD2	2.37	0.46
3:C:639:ILE:O	3:C:644:LEU:HB3	2.16	0.46
3:C:743:GLU:HG2	3:C:744:HIS:N	2.31	0.46
3:C:1083:ASP:HB2	3:C:1135:ILE:CG2	2.44	0.46
3:C:1389:TYR:C	3:C:1389:TYR:HD2	2.19	0.46
4:D:360:LEU:O	4:D:363:LEU:HB3	2.16	0.46
1:E:62:ASN:O	1:E:65:ASP:OD2	2.33	0.46
1:E:154:HIS:HB3	1:E:402:LEU:HD11	1.96	0.46
1:E:221:LYS:HB2	1:E:221:LYS:HZ3	1.74	0.46
1:E:226:TYR:HA	1:E:230:ASN:HB2	1.98	0.46
2:F:73:LYS:CA	2:F:76:SER:HB2	2.45	0.46
2:F:184:TYR:OH	2:F:211:LEU:HD12	2.16	0.46
2:F:351:HIS:O	2:F:352:SER:C	2.54	0.46
3:G:498:TRP:HB2	3:G:529:ILE:O	2.16	0.46
3:G:507:LEU:HD21	3:G:517:GLU:HB2	1.98	0.46
3:G:609:VAL:HG21	3:G:742:LEU:HD13	1.97	0.46
3:G:943:ASP:C	3:G:943:ASP:OD1	2.54	0.46
3:G:1075:LYS:HA	3:G:1075:LYS:HD2	1.76	0.46
3:G:1094:PHE:CE1	3:G:1115:ARG:HG2	2.50	0.46
4:H:217:ARG:O	4:H:218:GLU:C	2.53	0.46
4:H:429:VAL:HG22	4:H:430:HIS:N	2.30	0.46
1:A:50:LYS:HE3	1:A:76:TYR:HE1	1.81	0.45
1:A:95:LYS:HZ1	3:C:881:ARG:N	2.14	0.45
1:A:110:ILE:HD13	1:A:138:ALA:HB1	1.98	0.45
1:A:122:CYS:SG	1:A:127:ILE:HA	2.55	0.45
2:B:42:PHE:CE1	2:B:105:ILE:HD11	2.51	0.45
2:B:351:HIS:NE2	3:C:1231:ASP:OD2	2.49	0.45
2:B:365:PHE:CG	2:B:369:LYS:HD3	2.50	0.45
3:C:944:ILE:C	3:C:946:GLN:N	2.69	0.45
3:C:1139:LEU:HD12	3:C:1154:HIS:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1268:THR:O	3:C:1272:LYS:HB2	2.15	0.45
3:C:1278:ARG:HD3	3:C:1293:ASP:HB3	1.97	0.45
3:C:1334:ILE:O	3:C:1334:ILE:HG22	2.15	0.45
4:D:198:CYS:CB	4:D:199:PRO:CD	2.94	0.45
4:D:376:ILE:HG23	4:D:421:VAL:HG12	1.99	0.45
4:D:427:ARG:HH12	4:D:561:ARG:NH1	2.13	0.45
1:E:106:LEU:O	1:E:108:PHE:CE1	2.69	0.45
1:E:157:TRP:HB2	1:E:334:ILE:HB	1.96	0.45
2:F:359:ARG:C	2:F:360:THR:CG2	2.85	0.45
2:F:366:SER:O	2:F:369:LYS:HB3	2.16	0.45
3:G:346:LEU:HB3	3:G:689:MET:HE1	1.98	0.45
3:G:615:GLU:OE2	3:G:650:ARG:HB3	2.16	0.45
3:G:661:LYS:O	3:G:662:ILE:C	2.54	0.45
3:G:1257:ASN:C	3:G:1257:ASN:ND2	2.70	0.45
3:G:1334:ILE:HD13	3:G:1392:LEU:HD22	1.98	0.45
4:H:196:LEU:CG	4:H:197:GLY:H	2.29	0.45
4:H:228:GLY:O	4:H:231:LEU:N	2.50	0.45
4:H:470:GLY:C	4:H:471:LEU:HD23	2.34	0.45
1:A:27:TYR:O	1:A:31:ASN:HB3	2.15	0.45
1:A:174:VAL:HG13	1:A:177:LEU:CD1	2.45	0.45
2:B:295:LEU:HB2	2:B:301:LEU:CD1	2.46	0.45
3:C:343:PHE:HB2	3:C:365:VAL:CG1	2.46	0.45
3:C:487:PHE:CE2	3:C:493:ILE:HD11	2.51	0.45
3:C:519:MET:SD	3:C:519:MET:C	2.94	0.45
3:C:585:VAL:CG1	3:C:621:PHE:HD2	2.29	0.45
3:C:1236:ALA:HB2	3:C:1246:PHE:CE1	2.51	0.45
3:C:1340:LYS:HD3	3:C:1383:TYR:CD1	2.51	0.45
3:C:1423:THR:HG23	3:C:1426:VAL:CG2	2.46	0.45
4:D:360:LEU:HD11	4:D:409:ILE:CG1	2.46	0.45
4:D:514:PRO:O	4:D:515:GLN:C	2.54	0.45
1:E:57:TYR:HD2	1:E:57:TYR:N	2.14	0.45
1:E:183:SER:OG	1:E:311:LYS:HG3	2.16	0.45
1:E:198:VAL:O	1:E:201:LYS:HE2	2.17	0.45
1:E:199:LYS:NZ	1:E:242:LYS:HG3	2.31	0.45
2:F:136:PRO:C	2:F:138:ASP:N	2.68	0.45
2:F:387:ARG:HG3	2:F:388:HIS:N	2.31	0.45
3:G:345:TRP:HA	3:G:363:GLY:HA3	1.98	0.45
3:G:387:LEU:HD21	3:G:479:THR:N	2.32	0.45
3:G:788:ASN:O	3:G:791:LEU:N	2.49	0.45
3:G:917:LYS:HA	3:G:920:GLU:HB2	1.98	0.45
3:G:1019:PHE:O	3:G:1020:LYS:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:312:ARG:O	4:H:313:LYS:HB2	2.15	0.45
4:H:319:LEU:O	4:H:320:TYR:C	2.53	0.45
4:H:375:CYS:HB2	4:H:420:LEU:HD22	1.98	0.45
4:H:428:ASP:O	4:H:430:HIS:N	2.48	0.45
4:H:460:CYS:N	4:H:471:LEU:O	2.44	0.45
4:H:476:LEU:HD22	4:H:508:TYR:O	2.16	0.45
1:A:43:ARG:HG3	1:A:45:PHE:CZ	2.50	0.45
1:A:255:LEU:HD11	1:A:272:LEU:CD1	2.33	0.45
2:B:47:ILE:CD1	2:B:260:GLN:HE22	2.25	0.45
2:B:421:GLN:O	2:B:424:CYS:N	2.49	0.45
3:C:417:PHE:HE1	3:C:464:LEU:HD11	1.80	0.45
3:C:470:GLY:HA3	3:C:473:PHE:CE1	2.52	0.45
3:C:637:HIS:NE2	3:C:708:LEU:N	2.64	0.45
3:C:697:ALA:HB1	3:C:711:LEU:HD21	1.97	0.45
3:C:1454:LEU:HG	3:C:1455:PHE:CD1	2.51	0.45
1:E:159:TYR:HB3	1:E:332:VAL:H	1.81	0.45
1:E:343:ASP:HB3	1:E:346:THR:OG1	2.17	0.45
2:F:105:ILE:HG22	2:F:106:LEU:H	1.80	0.45
2:F:210:PRO:O	2:F:214:ILE:HB	2.16	0.45
2:F:262:TYR:HD1	2:F:263:SER:CA	2.28	0.45
2:F:280:SER:HA	2:F:284:PHE:CE1	2.49	0.45
3:G:430:PHE:HD2	3:G:430:PHE:H	1.58	0.45
3:G:560:MET:HE3	3:G:647:LEU:HD11	1.97	0.45
3:G:1015:LEU:HD11	3:G:1019:PHE:HD2	1.80	0.45
3:G:1043:VAL:O	3:G:1060:VAL:HG23	2.16	0.45
3:G:1389:TYR:CD2	3:G:1389:TYR:O	2.69	0.45
4:H:199:PRO:O	4:H:201:ALA:N	2.48	0.45
4:H:202:LEU:HB2	4:H:528:TYR:CE2	2.50	0.45
4:H:202:LEU:HD23	4:H:202:LEU:C	2.37	0.45
4:H:292:LYS:HD2	4:H:293:GLU:H	1.81	0.45
4:H:298:PRO:HD3	4:H:483:GLU:O	2.17	0.45
4:H:313:LYS:HB3	4:H:313:LYS:HE2	1.74	0.45
4:H:327:PHE:N	4:H:327:PHE:CD1	2.84	0.45
4:H:424:PRO:HG2	4:H:458:GLU:CB	2.47	0.45
2:B:124:GLU:OE1	2:B:124:GLU:HA	2.17	0.45
2:B:280:SER:HA	2:B:284:PHE:HD1	1.74	0.45
2:B:300:HIS:CG	2:B:301:LEU:N	2.85	0.45
3:C:341:PHE:O	3:C:341:PHE:CD1	2.70	0.45
3:C:720:ARG:O	3:C:720:ARG:CD	2.65	0.45
3:C:752:ILE:CG2	3:C:752:ILE:O	2.65	0.45
3:C:873:ASN:CG	3:C:873:ASN:O	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:917:LYS:HA	3:C:920:GLU:HB2	1.99	0.45
3:C:1441:LEU:N	3:C:1441:LEU:CD2	2.79	0.45
4:D:324:PRO:HD3	4:D:504:THR:HG22	1.98	0.45
4:D:480:LEU:HD13	4:D:480:LEU:HA	1.67	0.45
4:D:499:LEU:HD22	4:D:556:CYS:SG	2.56	0.45
2:F:367:CYS:SG	2:F:443:HIS:HA	2.56	0.45
2:F:445:ASN:O	2:F:448:PHE:CB	2.61	0.45
3:G:486:LEU:CD2	3:G:490:ASN:ND2	2.79	0.45
3:G:655:LYS:O	3:G:655:LYS:HD3	2.16	0.45
3:G:853:ASP:HB3	3:G:854:LYS:CE	2.47	0.45
3:G:878:THR:O	3:G:902:PRO:HB3	2.16	0.45
3:G:935:ASN:C	3:G:937:ASP:H	2.20	0.45
3:G:956:MET:HA	3:G:956:MET:CE	2.46	0.45
3:G:1081:ARG:NH1	3:G:1081:ARG:CG	2.76	0.45
3:G:1359:HIS:HD2	3:G:1360:LEU:N	2.14	0.45
4:H:346:CYS:SG	4:H:378:PHE:HB2	2.55	0.45
1:A:228:LEU:CD2	1:A:233:ILE:HG12	2.42	0.45
2:B:243:ASP:CG	2:B:246:LEU:HG	2.37	0.45
2:B:246:LEU:N	2:B:246:LEU:HD23	2.30	0.45
3:C:588:LYS:HB2	3:C:589:PRO:HD2	1.99	0.45
3:C:792:LEU:O	3:C:793:LEU:C	2.54	0.45
3:C:1253:LYS:O	3:C:1254:ASP:C	2.55	0.45
4:D:364:ILE:HA	4:D:367:ILE:HG13	1.98	0.45
4:D:532:PRO:HG2	4:D:533:VAL:N	2.27	0.45
4:D:535:PRO:O	4:D:554:CYS:SG	2.71	0.45
2:F:23:PRO:CD	2:F:25:CYS:HB2	2.47	0.45
2:F:114:GLU:HA	2:F:117:ARG:CZ	2.46	0.45
2:F:138:ASP:O	2:F:142:ASP:OD1	2.33	0.45
2:F:258:THR:O	2:F:260:GLN:N	2.49	0.45
3:G:643:GLU:O	3:G:644:LEU:C	2.53	0.45
3:G:944:ILE:O	3:G:945:ARG:C	2.55	0.45
3:G:982:GLU:HA	3:G:985:MET:HE3	1.98	0.45
3:G:1047:LEU:CD1	3:G:1057:ALA:HB2	2.45	0.45
3:G:1135:ILE:HB	3:G:1177:TYR:CZ	2.51	0.45
3:G:1253:LYS:O	3:G:1254:ASP:C	2.55	0.45
3:G:1307:LEU:HD13	3:G:1430:TYR:CZ	2.52	0.45
1:A:147:LYS:HG2	1:A:148:GLU:HG3	1.99	0.45
1:A:200:LYS:CD	1:A:246:LEU:HB3	2.47	0.45
2:B:48:ASP:O	2:B:50:VAL:N	2.50	0.45
2:B:188:PHE:CD1	2:B:188:PHE:C	2.90	0.45
2:B:210:PRO:O	2:B:214:ILE:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:531:ASP:C	3:G:366:TRP:CD1	2.90	0.45
3:C:539:VAL:HG13	3:C:540:MET:N	2.32	0.45
3:C:622:PHE:HE2	3:C:647:LEU:HD11	1.81	0.45
3:C:966:ARG:O	3:C:967:PHE:HD2	1.99	0.45
3:C:1335:ARG:NH2	4:D:433:PRO:HB3	2.31	0.45
3:C:1362:LEU:CD2	4:D:273:GLU:HG2	2.46	0.45
1:E:144:ARG:CD	1:E:218:ILE:HD11	2.46	0.45
1:E:223:PHE:CE2	1:E:269:TRP:CZ2	3.05	0.45
2:F:276:ILE:CA	2:F:279:LEU:HG	2.46	0.45
2:F:283:SER:O	2:F:447:PHE:HE2	1.99	0.45
2:F:367:CYS:CB	2:F:421:GLN:NE2	2.77	0.45
2:F:446:GLN:HG2	2:F:447:PHE:N	2.30	0.45
3:G:563:LEU:HD22	3:G:582:HIS:HB2	1.99	0.45
3:G:851:PHE:CE2	3:G:1108:ILE:CD1	2.99	0.45
3:G:944:ILE:C	3:G:946:GLN:N	2.69	0.45
3:G:1034:LYS:C	3:G:1035:LEU:HD23	2.37	0.45
4:H:240:PHE:HA	4:H:252:THR:O	2.16	0.45
4:H:343:LEU:CD1	4:H:571:PHE:HD1	2.27	0.45
4:H:453:VAL:CG1	4:H:454:GLN:N	2.79	0.45
1:A:110:ILE:HD11	1:A:157:TRP:HH2	1.80	0.45
1:A:195:GLY:O	1:A:197:ASP:N	2.49	0.45
1:A:210:PRO:HG2	2:B:201:TYR:HE2	1.81	0.45
2:B:33:PRO:CD	2:B:104:PHE:HD2	2.30	0.45
3:C:351:ASP:O	3:C:355:GLN:C	2.55	0.45
3:C:585:VAL:HG22	3:C:585:VAL:O	2.17	0.45
3:C:618:LEU:O	3:C:621:PHE:HB3	2.16	0.45
3:C:742:LEU:O	3:C:745:THR:HB	2.17	0.45
3:C:1081:ARG:HG2	3:C:1081:ARG:HH11	1.82	0.45
3:C:1139:LEU:CD1	3:C:1154:HIS:CD2	2.99	0.45
4:D:297:PHE:HD1	4:D:298:PRO:O	2.00	0.45
4:D:429:VAL:HG13	4:D:430:HIS:N	2.30	0.45
4:D:484:GLU:OE2	4:D:485:ILE:O	2.34	0.45
4:D:512:TYR:CD2	4:D:512:TYR:C	2.86	0.45
1:E:26:TYR:CD2	1:E:66:LEU:HD21	2.52	0.45
1:E:41:GLN:H	1:E:41:GLN:CD	2.20	0.45
1:E:187:GLU:OE2	2:F:196:ARG:HB2	2.17	0.45
2:F:146:ASP:OD2	2:F:146:ASP:N	2.50	0.45
2:F:150:GLN:C	2:F:151:PHE:CG	2.90	0.45
2:F:253:LEU:HD23	2:F:253:LEU:HA	1.77	0.45
3:G:512:SER:O	3:G:517:GLU:OE2	2.35	0.45
3:G:1151:SER:C	3:G:1189:SER:HB3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1155:VAL:HG12	3:G:1159:LEU:HD12	1.97	0.45
3:G:1386:LYS:C	3:G:1386:LYS:HD3	2.36	0.45
4:H:271:ILE:HD12	4:H:272:LEU:O	2.16	0.45
1:A:20:LEU:CD2	1:A:383:TYR:HA	2.47	0.45
1:A:111:ASP:CG	1:A:112:MET:H	2.20	0.45
1:A:234:LEU:O	1:A:268:ARG:HD2	2.17	0.45
1:A:267:GLN:O	1:A:267:GLN:HG2	2.17	0.45
2:B:29:TYR:CB	2:B:103:HIS:CD2	3.00	0.45
2:B:382:HIS:CD2	2:B:382:HIS:C	2.90	0.45
3:C:583:PHE:CD2	3:C:625:LYS:HE2	2.52	0.45
3:C:731:MET:CG	3:C:737:GLN:HB3	2.41	0.45
3:C:962:PHE:HD2	3:C:965:SER:HB2	1.82	0.45
3:C:1047:LEU:HD12	3:C:1048:LEU:H	1.81	0.45
3:C:1210:TYR:O	3:C:1214:GLN:N	2.42	0.45
4:D:193:LEU:HD12	4:D:454:GLN:OE1	2.16	0.45
4:D:256:GLN:O	4:D:272:LEU:HD12	2.17	0.45
4:D:297:PHE:CZ	4:D:300:GLN:HA	2.52	0.45
1:E:49:LEU:HD23	1:E:75:PRO:HA	1.99	0.45
2:F:301:LEU:HD22	2:F:305:GLY:HA3	1.99	0.45
2:F:312:PHE:HD2	2:F:313:LEU:HD23	1.80	0.45
3:G:541:ALA:HA	3:G:635:VAL:HG13	1.99	0.45
3:G:1047:LEU:HG	3:G:1049:LEU:HD22	1.98	0.45
3:G:1140:THR:O	3:G:1140:THR:CG2	2.60	0.45
3:G:1242:ASP:O	3:G:1246:PHE:HB2	2.17	0.45
3:G:1384:SER:OG	3:G:1385:ASP:N	2.49	0.45
4:H:479:HIS:CD2	4:H:515:GLN:HB2	2.52	0.45
3:C:344:TYR:HB2	3:C:498:TRP:CZ2	2.52	0.45
3:C:360:PHE:HD1	3:C:665:LEU:CD1	2.14	0.45
3:C:803:VAL:CB	3:C:804:PRO:CD	2.88	0.45
3:C:1139:LEU:N	3:C:1139:LEU:HD12	2.30	0.45
3:C:1207:ASP:O	3:C:1208:THR:C	2.55	0.45
3:C:1307:LEU:H	3:C:1307:LEU:CD1	2.26	0.45
4:D:196:LEU:CD1	4:D:197:GLY:H	2.29	0.45
4:D:312:ARG:O	4:D:313:LYS:HB2	2.16	0.45
4:D:357:TYR:HB3	4:D:360:LEU:HD23	1.99	0.45
4:D:447:ARG:NH1	4:D:447:ARG:HG2	2.32	0.45
4:D:532:PRO:CG	4:D:533:VAL:H	2.29	0.45
4:D:573:ARG:NH2	4:D:596:VAL:HG21	2.32	0.45
1:E:133:THR:HG21	1:E:226:TYR:HB2	1.98	0.45
2:F:139:LYS:HA	2:F:139:LYS:HD2	1.73	0.45
2:F:369:LYS:C	2:F:371:ILE:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:439:PHE:CD2	2:F:450:GLU:HG2	2.51	0.45
3:G:491:ARG:N	3:G:491:ARG:HD2	2.32	0.45
3:G:582:HIS:O	3:G:583:PHE:HB3	2.17	0.45
3:G:653:VAL:HG12	3:G:654:CYS:SG	2.57	0.45
3:G:908:MET:HG3	3:G:916:ARG:HE	1.82	0.45
3:G:926:LYS:O	3:G:926:LYS:NZ	2.49	0.45
4:H:186:GLY:HA3	4:H:371:ARG:CZ	2.47	0.45
4:H:257:ILE:CD1	4:H:302:VAL:HG21	2.47	0.45
4:H:324:PRO:N	4:H:504:THR:HG22	2.31	0.45
1:A:179:SER:OG	1:A:311:LYS:O	2.33	0.45
1:A:302:PHE:CE1	1:A:303:PRO:O	2.70	0.45
1:A:393:LYS:HZ2	1:A:396:GLU:CD	2.20	0.45
2:B:121:ILE:CD1	2:B:226:LEU:HD23	2.47	0.45
3:C:391:PRO:HA	3:C:472:THR:O	2.16	0.45
3:C:589:PRO:HG3	3:C:592:CYS:CB	2.47	0.45
3:C:659:TRP:NE1	3:C:660:SER:HB2	2.32	0.45
3:C:689:MET:SD	3:C:776:MET:HB3	2.56	0.45
3:C:1213:ALA:O	3:C:1218:PRO:HD3	2.17	0.45
3:C:1345:TRP:CZ3	3:C:1358:ARG:CG	3.00	0.45
4:D:411:GLU:CG	4:D:414:ARG:HH12	2.29	0.45
4:D:447:ARG:HH22	4:D:450:LYS:CG	2.30	0.45
1:E:159:TYR:CE2	1:E:161:GLY:HA2	2.52	0.45
2:F:39:LEU:HD11	2:F:245:ARG:CG	2.47	0.45
2:F:428:PHE:CD2	2:F:437:CYS:HB2	2.53	0.45
2:F:443:HIS:O	2:F:446:GLN:HB3	2.17	0.45
3:G:586:VAL:CG1	3:G:742:LEU:HD21	2.47	0.45
3:G:710:GLU:O	3:G:711:LEU:C	2.55	0.45
3:G:795:ALA:O	3:G:796:PHE:C	2.55	0.45
3:G:806:LYS:NZ	3:G:807:GLN:O	2.32	0.45
3:G:1193:TYR:N	3:G:1193:TYR:CD1	2.85	0.45
3:G:1227:ILE:CG2	3:G:1230:ILE:HG12	2.47	0.45
3:G:1320:LEU:HD11	3:G:1425:LYS:HE3	1.99	0.45
1:A:68:LYS:HE3	1:A:72:LYS:CE	2.46	0.44
1:A:104:LYS:HE2	1:A:314:ASN:C	2.38	0.44
1:A:147:LYS:HB2	1:A:155:ARG:NH1	2.32	0.44
2:B:22:TYR:CB	2:B:84:SER:HB3	2.47	0.44
2:B:429:GLU:O	2:B:433:ASN:N	2.50	0.44
3:C:349:TYR:HD1	3:C:665:LEU:CD1	2.30	0.44
3:C:625:LYS:HB3	3:C:629:ILE:CD1	2.46	0.44
3:C:723:ILE:HA	3:C:724:PRO:HD3	1.66	0.44
3:C:774:ASN:CG	3:C:775:ILE:H	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:875:CYS:N	3:C:878:THR:OG1	2.51	0.44
3:C:969:ALA:C	3:C:971:PRO:HD2	2.38	0.44
3:C:1376:LYS:HG3	3:C:1376:LYS:O	2.17	0.44
4:D:459:PRO:CB	4:D:471:LEU:O	2.65	0.44
1:E:84:TYR:HD1	1:E:100:GLN:C	2.20	0.44
1:E:402:LEU:C	1:E:406:ARG:NH1	2.70	0.44
2:F:241:GLN:HE21	2:F:241:GLN:HB3	1.62	0.44
3:G:537:LEU:HD12	3:G:570:LEU:HD21	1.99	0.44
3:G:647:LEU:O	3:G:649:GLN:N	2.50	0.44
3:G:849:VAL:HG12	3:G:1226:PRO:HA	1.99	0.44
3:G:1076:GLY:O	3:G:1077:LEU:HD23	2.18	0.44
3:G:1332:MET:HE1	3:G:1335:ARG:HD2	1.98	0.44
4:H:343:LEU:O	4:H:344:VAL:CG2	2.63	0.44
4:H:398:PHE:O	4:H:399:GLU:C	2.56	0.44
4:H:589:PRO:O	4:H:591:ILE:CD1	2.65	0.44
2:B:111:CYS:HB2	2:B:233:THR:OG1	2.17	0.44
2:B:344:GLY:HA2	3:C:1113:GLN:NE2	2.32	0.44
3:C:786:GLU:O	3:C:787:ARG:C	2.55	0.44
3:C:971:PRO:O	3:C:972:LEU:C	2.55	0.44
3:C:1021:LEU:O	3:C:1022:GLY:C	2.52	0.44
3:C:1095:VAL:HG12	3:C:1112:ILE:CD1	2.36	0.44
3:C:1096:ILE:O	3:C:1096:ILE:HD13	2.17	0.44
4:D:287:ASP:HB2	4:D:313:LYS:CE	2.47	0.44
4:D:399:GLU:CG	4:D:403:LYS:HE2	2.40	0.44
4:D:447:ARG:NH2	4:D:450:LYS:HG3	2.32	0.44
4:D:480:LEU:HA	4:D:511:LEU:HD22	1.99	0.44
1:E:62:ASN:H	1:E:65:ASP:CG	2.19	0.44
1:E:146:LEU:O	1:E:150:PHE:HB2	2.18	0.44
1:E:153:LYS:N	1:E:171:ASP:OD2	2.50	0.44
2:F:214:ILE:HG22	2:F:215:VAL:N	2.31	0.44
2:F:371:ILE:HG22	2:F:372:LEU:HD23	1.99	0.44
3:G:351:ASP:O	3:G:355:GLN:C	2.55	0.44
3:G:427:ILE:C	3:G:428:MET:HE3	2.37	0.44
3:G:439:TYR:O	3:G:448:GLU:HA	2.17	0.44
3:G:560:MET:CE	3:G:647:LEU:CD1	2.95	0.44
3:G:725:MET:HA	3:G:728:ILE:CG1	2.48	0.44
3:G:747:LYS:O	3:G:750:LYS:HB3	2.16	0.44
3:G:777:SER:O	3:G:778:ARG:C	2.56	0.44
3:G:1036:LEU:CD1	3:G:1037:GLU:H	2.28	0.44
3:G:1105:ARG:O	3:G:1109:VAL:HG23	2.17	0.44
3:G:1117:ILE:O	3:G:1121:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1146:TYR:CG	3:G:1155:VAL:HG21	2.48	0.44
3:G:1154:HIS:CG	3:G:1155:VAL:H	2.34	0.44
3:G:1356:ARG:HG2	3:G:1356:ARG:HH11	1.82	0.44
3:G:1433:LEU:O	3:G:1436:THR:HB	2.17	0.44
1:A:176:LYS:HG3	1:A:176:LYS:O	2.17	0.44
1:A:177:LEU:HB2	1:A:182:ARG:NE	2.32	0.44
2:B:105:ILE:C	2:B:107:ARG:H	2.21	0.44
3:C:522:LYS:CE	3:C:525:LEU:HD21	2.47	0.44
3:C:596:TYR:CD1	3:C:597:ALA:N	2.85	0.44
3:C:630:ASP:HA	3:C:688:ARG:HH22	1.82	0.44
3:C:643:GLU:O	3:C:644:LEU:C	2.56	0.44
3:C:732:TYR:CD2	3:C:738:LEU:CD1	2.99	0.44
3:C:740:TYR:C	3:C:740:TYR:CD1	2.90	0.44
3:C:859:LEU:CD2	3:C:1040:ILE:HD13	2.46	0.44
3:C:941:GLN:NE2	3:G:371:GLU:OE1	2.50	0.44
3:C:1294:ASN:OD1	3:C:1397:TYR:CZ	2.71	0.44
3:C:1339:LYS:O	3:C:1342:TYR:N	2.50	0.44
3:C:1350:GLU:HA	3:C:1351:PRO:HD3	1.80	0.44
4:D:275:ASP:OD2	4:D:277:GLU:HB3	2.18	0.44
4:D:291:LEU:HD12	4:D:291:LEU:HA	1.72	0.44
4:D:447:ARG:NH2	4:D:450:LYS:CB	2.80	0.44
4:D:475:ASP:OD1	4:D:478:PHE:CB	2.65	0.44
4:D:555:VAL:HG12	4:D:557:VAL:HG23	1.99	0.44
2:F:69:GLN:O	2:F:73:LYS:HG3	2.17	0.44
3:G:358:VAL:HA	3:G:380:VAL:O	2.17	0.44
3:G:366:TRP:O	3:G:367:ILE:HD13	2.17	0.44
3:G:487:PHE:O	3:G:489:MET:N	2.50	0.44
3:G:556:GLU:HG2	3:G:650:ARG:HH21	1.82	0.44
3:G:861:PHE:HB2	3:G:1004:ASP:HB2	1.99	0.44
3:G:918:LEU:HD12	3:G:953:ALA:HB2	2.00	0.44
3:G:1097:GLY:O	3:G:1098:GLN:C	2.55	0.44
3:G:1337:PHE:HD1	3:G:1337:PHE:N	2.15	0.44
3:G:1337:PHE:N	3:G:1337:PHE:CD1	2.84	0.44
4:H:479:HIS:CE1	4:H:509:TYR:HH	2.30	0.44
1:A:209:HIS:ND1	1:A:211:PHE:N	2.65	0.44
2:B:39:LEU:O	2:B:43:GLU:HB2	2.17	0.44
2:B:49:ARG:CB	2:B:106:LEU:HD12	2.45	0.44
2:B:70:TYR:O	2:B:74:LEU:HB2	2.18	0.44
2:B:376:PRO:HD2	2:B:388:HIS:HD2	1.77	0.44
3:C:345:TRP:HA	3:C:363:GLY:HA3	2.00	0.44
3:C:388:TYR:HB2	3:C:477:PHE:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:418:ASP:OD2	3:C:418:ASP:C	2.56	0.44
3:C:542:PHE:O	3:C:542:PHE:CG	2.69	0.44
3:C:576:LYS:HE3	3:C:576:LYS:HB2	1.82	0.44
3:C:607:VAL:HG23	3:C:609:VAL:CG1	2.34	0.44
3:C:731:MET:CE	3:C:741:LEU:HD22	2.48	0.44
3:C:1097:GLY:O	3:C:1098:GLN:C	2.55	0.44
3:C:1133:PHE:N	3:C:1133:PHE:CD2	2.85	0.44
3:C:1214:GLN:O	3:C:1218:PRO:HG2	2.17	0.44
3:C:1388:LEU:O	3:C:1390:THR:N	2.50	0.44
4:D:226:GLU:O	4:D:227:LEU:C	2.53	0.44
1:E:112:MET:HB3	1:E:163:ARG:HB2	1.97	0.44
2:F:94:GLU:HB3	2:F:95:PRO:CD	2.45	0.44
2:F:312:PHE:CD1	2:F:445:ASN:OD1	2.71	0.44
2:F:411:ILE:HG22	2:F:412:LEU:N	2.32	0.44
2:F:443:HIS:CE1	2:F:445:ASN:HB2	2.53	0.44
2:F:443:HIS:ND1	2:F:445:ASN:N	2.66	0.44
3:G:637:HIS:CD2	3:G:708:LEU:HD13	2.52	0.44
3:G:689:MET:SD	3:G:776:MET:CG	2.87	0.44
3:G:948:ALA:O	3:G:950:LYS:N	2.51	0.44
4:H:383:ASP:C	4:H:385:LYS:N	2.70	0.44
4:H:495:PHE:C	4:H:497:ARG:N	2.70	0.44
1:A:13:LEU:HD13	1:A:74:ASN:O	2.17	0.44
1:A:112:MET:N	1:A:163:ARG:O	2.51	0.44
2:B:29:TYR:CD1	2:B:103:HIS:CD2	3.06	0.44
2:B:258:THR:HG21	2:B:261:ASP:HB2	2.00	0.44
2:B:367:CYS:O	2:B:369:LYS:N	2.51	0.44
2:B:367:CYS:C	2:B:369:LYS:N	2.67	0.44
3:C:381:LYS:O	3:C:521:LEU:O	2.36	0.44
3:C:610:GLU:O	3:C:610:GLU:HG3	2.17	0.44
3:C:777:SER:O	3:C:778:ARG:C	2.56	0.44
3:C:880:GLN:O	3:C:899:PRO:HB3	2.18	0.44
3:C:935:ASN:O	3:C:938:LEU:N	2.50	0.44
3:C:1035:LEU:O	3:C:1036:LEU:O	2.36	0.44
3:C:1054:LYS:HG3	3:C:1076:GLY:HA3	2.00	0.44
3:C:1185:ASN:O	3:C:1186:LEU:O	2.35	0.44
3:C:1423:THR:O	3:C:1424:PRO:C	2.55	0.44
4:D:194:LYS:CE	4:D:463:SER:OG	2.54	0.44
4:D:199:PRO:O	4:D:201:ALA:N	2.50	0.44
4:D:259:CYS:SG	4:D:260:ASP:N	2.90	0.44
4:D:319:LEU:O	4:D:319:LEU:HG	2.18	0.44
1:E:37:LYS:C	1:E:38:ASN:ND2	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:ASP:CA	1:E:406:ARG:NH1	2.81	0.44
1:E:403:ASP:N	1:E:406:ARG:NH1	2.66	0.44
3:G:392:ARG:O	3:G:408:ILE:HB	2.17	0.44
3:G:439:TYR:CD2	3:G:439:TYR:C	2.91	0.44
3:G:637:HIS:O	3:G:643:GLU:OE2	2.36	0.44
3:G:739:LEU:HD13	3:G:742:LEU:CD1	2.30	0.44
3:G:873:ASN:HD21	3:G:878:THR:HG21	1.78	0.44
3:G:974:ALA:O	3:G:975:LEU:C	2.55	0.44
3:G:1026:LYS:O	3:G:1027:SER:C	2.56	0.44
3:G:1363:GLN:OE1	3:G:1370:LEU:HD23	2.17	0.44
3:G:1398:ILE:O	3:G:1399:PHE:CD1	2.70	0.44
3:G:1415:ASP:HA	3:G:1418:LYS:HB3	1.99	0.44
4:H:257:ILE:HD11	4:H:302:VAL:HG21	1.98	0.44
4:H:531:LEU:N	4:H:531:LEU:CD2	2.79	0.44
1:A:1:MET:HE3	1:A:329:ARG:HH21	1.81	0.44
1:A:159:TYR:N	1:A:332:VAL:O	2.49	0.44
1:A:194:GLY:HA2	1:A:201:LYS:HD3	2.00	0.44
2:B:165:GLU:HB3	2:B:201:TYR:CE2	2.53	0.44
3:C:498:TRP:HB2	3:C:529:ILE:O	2.17	0.44
3:C:875:CYS:O	3:C:972:LEU:HD11	2.18	0.44
3:C:948:ALA:O	3:C:950:LYS:N	2.51	0.44
3:C:1231:ASP:OD1	3:C:1231:ASP:C	2.55	0.44
3:C:1416:LYS:NZ	3:C:1420:GLN:OE1	2.45	0.44
4:D:351:THR:HG23	4:D:354:SER:OG	2.17	0.44
1:E:386:THR:C	1:E:388:LEU:H	2.20	0.44
2:F:150:GLN:C	2:F:151:PHE:CD1	2.90	0.44
2:F:285:PRO:CA	2:F:447:PHE:CE2	3.00	0.44
3:G:583:PHE:C	3:G:583:PHE:HD1	2.21	0.44
3:G:753:LEU:O	3:G:756:MET:HB3	2.18	0.44
3:G:843:LEU:HD12	3:G:843:LEU:C	2.36	0.44
3:G:852:TYR:HD1	3:G:1009:ASN:ND2	2.05	0.44
3:G:915:ILE:HG22	3:G:915:ILE:O	2.17	0.44
3:G:969:ALA:C	3:G:971:PRO:HD2	2.37	0.44
3:G:1050:LEU:CD2	3:G:1226:PRO:HG2	2.48	0.44
3:G:1160:TRP:HE3	3:G:1161:ILE:CG1	2.30	0.44
3:G:1175:VAL:CG1	3:G:1176:SER:N	2.81	0.44
3:G:1389:TYR:HE1	3:G:1447:SER:HA	1.82	0.44
4:H:206:TYR:HE1	4:H:434:VAL:HG11	1.83	0.44
4:H:226:GLU:O	4:H:227:LEU:C	2.56	0.44
4:H:564:LYS:O	4:H:565:GLY:C	2.55	0.44
1:A:43:ARG:HE	1:A:83:VAL:HG23	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:VAL:HG23	1:A:302:PHE:CE1	2.52	0.44
2:B:120:PHE:O	2:B:121:ILE:C	2.55	0.44
3:C:360:PHE:CE1	3:C:665:LEU:HD21	2.53	0.44
3:C:745:THR:HG22	3:C:746:TRP:N	2.32	0.44
3:C:801:TYR:CE1	3:C:910:ILE:HD11	2.53	0.44
3:C:868:ILE:C	3:C:870:GLN:H	2.21	0.44
3:C:1101:SER:OG	3:C:1103:GLN:HG3	2.17	0.44
3:C:1137:LYS:NZ	3:C:1153:PRO:HG2	2.32	0.44
3:C:1221:ALA:C	3:C:1223:ILE:H	2.20	0.44
4:D:156:THR:HG22	4:D:159:GLN:CB	2.47	0.44
4:D:228:GLY:O	4:D:231:LEU:N	2.51	0.44
4:D:237:ILE:HD11	4:D:320:TYR:CE1	2.52	0.44
4:D:351:THR:OG1	4:D:353:ASP:OD1	2.30	0.44
4:D:361:LEU:HA	4:D:364:ILE:CG1	2.47	0.44
2:F:45:LEU:CD1	2:F:101:ILE:CG2	2.95	0.44
2:F:67:THR:O	2:F:70:TYR:HB3	2.18	0.44
2:F:382:HIS:CD2	2:F:382:HIS:C	2.91	0.44
3:G:379:MET:SD	3:G:519:MET:HG3	2.57	0.44
3:G:505:GLN:C	3:G:506:LEU:HD23	2.38	0.44
3:G:524:ASP:OD1	3:G:525:LEU:HD23	2.18	0.44
3:G:544:MET:CE	3:G:647:LEU:HD13	2.46	0.44
3:G:612:ALA:HB1	3:G:617:THR:CB	2.43	0.44
3:G:682:ARG:HD3	3:G:683:ASN:N	2.33	0.44
3:G:1004:ASP:N	3:G:1004:ASP:OD2	2.51	0.44
3:G:1151:SER:O	3:G:1189:SER:HB3	2.18	0.44
4:H:161:TYR:O	4:H:164:ARG:HB3	2.18	0.44
4:H:360:LEU:HD11	4:H:409:ILE:CG1	2.46	0.44
4:H:459:PRO:HB2	4:H:471:LEU:O	2.17	0.44
1:A:298:LEU:C	1:A:300:TYR:H	2.21	0.44
2:B:29:TYR:OH	2:B:99:ASP:OD2	2.13	0.44
2:B:215:VAL:HG12	2:B:216:ALA:N	2.33	0.44
2:B:370:ILE:HG23	2:B:383:GLY:HA2	1.99	0.44
3:C:564:VAL:O	3:C:579:PHE:HB2	2.17	0.44
3:C:605:LYS:O	3:C:607:VAL:HG13	2.18	0.44
3:C:753:LEU:O	3:C:756:MET:HB3	2.17	0.44
3:C:806:LYS:HE2	3:C:807:GLN:N	2.33	0.44
3:C:910:ILE:N	3:C:910:ILE:CD1	2.80	0.44
3:C:982:GLU:C	3:C:984:LEU:N	2.71	0.44
3:C:1198:LEU:HG	3:C:1199:GLN:N	2.33	0.44
3:C:1430:TYR:C	3:C:1432:LYS:N	2.71	0.44
4:D:217:ARG:O	4:D:218:GLU:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:255:GLY:HA3	4:D:272:LEU:HD21	2.00	0.44
4:D:458:GLU:CD	4:D:473:SER:H	2.21	0.44
1:E:82:ALA:HB2	1:E:104:LYS:HB2	1.99	0.44
1:E:120:ARG:CB	1:E:120:ARG:HH11	2.31	0.44
2:F:85:TYR:HB3	2:F:86:ARG:H	1.30	0.44
2:F:93:TYR:HB3	2:F:96:ARG:CB	2.48	0.44
2:F:140:ILE:O	2:F:144:LEU:HG	2.18	0.44
3:G:341:PHE:CE2	3:G:365:VAL:CG1	2.99	0.44
3:G:528:VAL:HG12	3:G:529:ILE:N	2.31	0.44
3:G:539:VAL:HG12	3:G:540:MET:N	2.33	0.44
3:G:742:LEU:O	3:G:743:GLU:C	2.56	0.44
3:G:900:GLU:O	3:G:901:LEU:C	2.56	0.44
3:G:1023:ASN:CA	3:G:1026:LYS:HB3	2.43	0.44
3:G:1244:THR:HG22	3:G:1247:ARG:HH12	1.83	0.44
3:G:1332:MET:CE	3:G:1335:ARG:HD2	2.48	0.44
4:H:256:GLN:HG3	4:H:257:ILE:O	2.16	0.44
4:H:294:TYR:CE1	4:H:487:SER:N	2.86	0.44
4:H:435:TYR:CB	4:H:518:MET:HE1	2.47	0.44
4:H:514:PRO:O	4:H:515:GLN:C	2.54	0.44
1:A:181:VAL:HA	2:B:192:LEU:HD22	2.00	0.44
3:C:522:LYS:O	3:C:525:LEU:CG	2.61	0.44
3:C:1182:ASP:HA	3:C:1204:LEU:HD22	1.99	0.44
3:C:1241:LEU:O	3:C:1241:LEU:HG	2.18	0.44
3:C:1316:LYS:N	3:C:1316:LYS:CD	2.80	0.44
4:D:218:GLU:O	4:D:222:CYS:SG	2.64	0.44
4:D:294:TYR:HA	4:D:319:LEU:HD22	2.00	0.44
4:D:396:SER:HA	4:D:397:PRO:HD3	1.83	0.44
1:E:87:ARG:HB3	1:E:89:ASN:ND2	2.23	0.44
2:F:137:LYS:NZ	2:F:181:GLU:CG	2.81	0.44
2:F:247:GLN:N	2:F:248:PRO:CD	2.81	0.44
2:F:295:LEU:HD11	2:F:330:GLU:HG3	2.00	0.44
2:F:329:GLN:HE21	2:F:329:GLN:HB3	1.57	0.44
2:F:355:LYS:HB3	2:F:356:GLU:H	1.55	0.44
3:G:437:LYS:HZ2	3:G:800:ASN:HD22	1.65	0.44
3:G:507:LEU:HD22	3:G:510:PRO:HA	2.00	0.44
3:G:878:THR:HB	3:G:902:PRO:HG3	2.00	0.44
3:G:1018:VAL:O	3:G:1022:GLY:N	2.41	0.44
4:H:196:LEU:HG	4:H:197:GLY:H	1.83	0.44
4:H:257:ILE:HG12	4:H:300:GLN:HB3	2.00	0.44
1:A:87:ARG:HB3	1:A:89:ASN:ND2	2.33	0.43
1:A:206:GLU:OE1	1:A:289:GLY:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:37:ILE:HG22	2:B:41:GLU:HB3	2.00	0.43
2:B:240:VAL:C	2:B:242:SER:H	2.21	0.43
3:C:346:LEU:CD1	3:C:632:ASP:OD2	2.66	0.43
3:C:648:LEU:O	3:C:651:ILE:HG22	2.18	0.43
3:C:700:LEU:HD21	3:C:764:LEU:CD1	2.48	0.43
3:C:1351:PRO:HA	3:C:1354:ARG:HD3	1.99	0.43
1:E:120:ARG:NH1	1:E:120:ARG:CB	2.80	0.43
1:E:169:VAL:HG12	1:E:174:VAL:HG21	1.99	0.43
1:E:251:ILE:O	1:E:251:ILE:CG2	2.66	0.43
3:G:631:PRO:HG2	3:G:688:ARG:NH1	2.33	0.43
3:G:982:GLU:C	3:G:984:LEU:H	2.21	0.43
3:G:1283:CYS:O	3:G:1285:THR:N	2.51	0.43
3:G:1339:LYS:O	3:G:1342:TYR:N	2.50	0.43
4:H:356:THR:HG1	4:H:358:ASP:CG	2.21	0.43
4:H:480:LEU:HA	4:H:511:LEU:HD22	1.99	0.43
4:H:484:GLU:OE2	4:H:497:ARG:NH1	2.51	0.43
1:A:136:THR:O	1:A:139:ILE:HB	2.18	0.43
1:A:192:VAL:HG22	1:A:302:PHE:CD1	2.51	0.43
1:A:382:ASP:OD2	1:A:385:LYS:HD2	2.18	0.43
2:B:33:PRO:HD2	2:B:104:PHE:HD2	1.82	0.43
2:B:444:PRO:HG3	6:B:601:SF4:S3	2.58	0.43
3:C:543:SER:HB2	3:C:749:ALA:CA	2.48	0.43
3:C:589:PRO:HD3	3:C:732:TYR:CE1	2.53	0.43
3:C:766:LEU:HD12	3:C:766:LEU:HA	1.73	0.43
3:C:975:LEU:HD12	3:C:975:LEU:O	2.18	0.43
3:C:1135:ILE:HB	3:C:1177:TYR:CE1	2.53	0.43
4:D:196:LEU:CG	4:D:197:GLY:N	2.81	0.43
4:D:237:ILE:HG22	4:D:238:GLU:N	2.31	0.43
4:D:349:TYR:HE1	4:D:381:PHE:CE1	2.37	0.43
4:D:563:THR:HG22	4:D:564:LYS:N	2.33	0.43
1:E:207:LYS:CE	2:F:172:SER:HA	2.49	0.43
1:E:208:ILE:HG23	1:E:212:ILE:CG2	2.48	0.43
2:F:358:LYS:HZ3	3:G:1274:ARG:NH2	2.16	0.43
2:F:412:LEU:O	2:F:416:LYS:HG3	2.18	0.43
2:F:434:VAL:HG23	2:F:436:ASP:N	2.33	0.43
3:G:523:PRO:C	3:G:525:LEU:H	2.21	0.43
3:G:786:GLU:O	3:G:787:ARG:C	2.57	0.43
3:G:1160:TRP:CE3	3:G:1161:ILE:N	2.86	0.43
3:G:1220:VAL:O	3:G:1223:ILE:HB	2.18	0.43
4:H:219:VAL:O	4:H:222:CYS:N	2.51	0.43
4:H:464:ILE:HD12	4:H:469:PHE:CD1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:ASN:N	1:A:75:PRO:HD3	2.33	0.43
1:A:350:ILE:HA	1:A:353:ILE:HD11	2.00	0.43
2:B:180:PHE:N	2:B:180:PHE:CD1	2.86	0.43
3:C:358:VAL:HA	3:C:380:VAL:O	2.17	0.43
3:C:362:PHE:CD2	3:C:687:GLY:CA	2.99	0.43
3:C:582:HIS:O	3:C:583:PHE:HB3	2.18	0.43
3:C:657:PRO:O	3:C:658:HIS:HB2	2.18	0.43
3:C:794:HIS:O	3:C:797:TYR:HB2	2.18	0.43
3:C:944:ILE:O	3:C:945:ARG:C	2.56	0.43
3:C:1409:THR:CG2	3:C:1410:THR:H	2.14	0.43
4:D:256:GLN:HE21	4:D:256:GLN:HB2	1.62	0.43
4:D:319:LEU:O	4:D:320:TYR:C	2.56	0.43
1:E:5:ASP:HA	1:E:6:PRO:HD2	1.85	0.43
1:E:130:LYS:O	1:E:226:TYR:CE1	2.69	0.43
1:E:209:HIS:CG	1:E:210:PRO:CD	3.01	0.43
1:E:210:PRO:O	1:E:211:PHE:C	2.55	0.43
1:E:214:LYS:O	1:E:218:ILE:HG13	2.17	0.43
1:E:269:TRP:O	1:E:273:LYS:HG3	2.17	0.43
2:F:37:ILE:HD11	3:G:1451:LEU:HD11	1.99	0.43
2:F:93:TYR:O	2:F:94:GLU:C	2.57	0.43
2:F:124:GLU:HG3	2:F:124:GLU:O	2.19	0.43
3:G:365:VAL:CG1	3:G:376:CYS:SG	3.07	0.43
3:G:635:VAL:CG2	3:G:752:ILE:CG2	2.92	0.43
3:G:665:LEU:HD23	3:G:665:LEU:HA	1.83	0.43
3:G:801:TYR:CE1	3:G:910:ILE:HD11	2.53	0.43
3:G:1196:GLU:HG3	3:G:1197:GLN:N	2.28	0.43
3:G:1328:ASN:CG	4:H:398:PHE:CE2	2.92	0.43
3:G:1401:ALA:HB2	3:G:1430:TYR:HD1	1.83	0.43
4:H:166:ASN:ND2	4:H:166:ASN:H	2.14	0.43
4:H:423:VAL:HA	4:H:424:PRO:HD2	1.80	0.43
4:H:435:TYR:HD1	4:H:435:TYR:C	2.21	0.43
4:H:538:LEU:CD1	4:H:540:ILE:HD11	2.48	0.43
1:A:27:TYR:HB3	1:A:63:GLN:OE1	2.18	0.43
1:A:113:THR:HG21	1:A:163:ARG:NH1	2.33	0.43
1:A:407:LYS:HG2	1:A:408:GLY:N	2.33	0.43
2:B:281:THR:O	2:B:431:ILE:HD11	2.19	0.43
2:B:295:LEU:CD1	2:B:330:GLU:HG3	2.47	0.43
2:B:341:PHE:HD2	2:B:342:ASP:OD2	2.01	0.43
3:C:665:LEU:O	3:C:667:ARG:HG2	2.17	0.43
3:C:777:SER:O	3:C:780:LEU:N	2.41	0.43
3:C:1116:LEU:H	3:C:1116:LEU:CD1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1360:LEU:O	3:C:1360:LEU:HG	2.12	0.43
4:D:171:VAL:HB	4:D:546:TYR:HE2	1.79	0.43
4:D:356:THR:OG1	4:D:358:ASP:CG	2.56	0.43
4:D:476:LEU:HD13	4:D:480:LEU:HD23	1.99	0.43
4:D:493:ASP:C	4:D:493:ASP:OD1	2.57	0.43
2:F:287:CYS:HB2	2:F:288:MET:CE	2.49	0.43
2:F:417:GLY:O	2:F:418:THR:CB	2.67	0.43
2:F:441:LEU:HD21	2:F:447:PHE:HB2	2.00	0.43
3:G:731:MET:HG2	3:G:737:GLN:OE1	2.18	0.43
3:G:1364:PHE:CE1	3:G:1369:PRO:HA	2.54	0.43
4:H:563:THR:HG22	4:H:564:LYS:N	2.34	0.43
1:A:68:LYS:O	1:A:72:LYS:HB2	2.19	0.43
1:A:196:GLN:O	1:A:196:GLN:HG2	2.18	0.43
2:B:139:LYS:CA	2:B:142:ASP:OD1	2.65	0.43
2:B:288:MET:HG3	2:B:312:PHE:CZ	2.54	0.43
2:B:336:MET:CE	2:B:345:TYR:HE2	2.30	0.43
2:B:356:GLU:HB2	3:C:1247:ARG:HD3	2.01	0.43
3:C:349:TYR:OH	3:C:667:ARG:NH2	2.51	0.43
3:C:661:LYS:O	3:C:663:GLY:N	2.51	0.43
3:C:795:ALA:O	3:C:796:PHE:C	2.57	0.43
3:C:851:PHE:CD2	3:C:1105:ARG:HG3	2.53	0.43
1:E:162:ARG:NH2	1:E:326:LYS:CD	2.82	0.43
1:E:237:LYS:HZ2	1:E:256:GLN:HE22	1.66	0.43
2:F:107:ARG:O	2:F:111:CYS:HB3	2.19	0.43
2:F:421:GLN:O	2:F:424:CYS:N	2.52	0.43
3:G:389:PHE:CE2	3:G:476:VAL:HG21	2.53	0.43
3:G:391:PRO:HA	3:G:472:THR:O	2.19	0.43
3:G:551:LYS:HB3	3:G:552:ASN:H	1.65	0.43
3:G:631:PRO:CD	3:G:688:ARG:HH12	2.32	0.43
3:G:1135:ILE:CG2	3:G:1136:ASN:N	2.79	0.43
4:H:198:CYS:CB	4:H:199:PRO:CD	2.96	0.43
4:H:380:PRO:HB3	4:H:427:ARG:HB2	2.01	0.43
4:H:399:GLU:HA	4:H:399:GLU:OE2	2.18	0.43
1:A:48:THR:HB	1:A:77:LYS:CB	2.44	0.43
1:A:172:GLU:HA	1:A:175:ARG:NH2	2.33	0.43
2:B:49:ARG:CB	2:B:102:SER:HB2	2.35	0.43
2:B:211:LEU:O	2:B:212:LYS:C	2.56	0.43
2:B:253:LEU:HD23	2:B:253:LEU:HA	1.70	0.43
3:C:549:ASN:HD21	3:C:552:ASN:C	2.21	0.43
3:C:659:TRP:CD2	3:C:660:SER:N	2.86	0.43
3:C:1251:TYR:HE1	3:C:1253:LYS:HD3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:378:PHE:HE2	4:D:472:THR:O	2.02	0.43
4:D:522:TYR:H	4:D:522:TYR:HD2	1.65	0.43
2:F:265:GLN:CB	2:F:362:TYR:CZ	3.01	0.43
2:F:285:PRO:HB2	2:F:286:PRO:HD2	1.99	0.43
2:F:285:PRO:HB2	2:F:286:PRO:CD	2.48	0.43
3:G:395:LYS:N	3:G:408:ILE:HD11	2.33	0.43
3:G:486:LEU:CD2	3:G:490:ASN:HD21	2.31	0.43
3:G:507:LEU:HD21	3:G:517:GLU:CB	2.48	0.43
3:G:562:ALA:HB3	3:G:583:PHE:CE1	2.53	0.43
3:G:790:PHE:HA	3:G:793:LEU:HB2	2.01	0.43
3:G:1186:LEU:HD22	3:G:1187:THR:H	1.81	0.43
3:G:1193:TYR:CE2	3:G:1204:LEU:HD13	2.54	0.43
4:H:255:GLY:CA	4:H:272:LEU:HD11	2.47	0.43
4:H:484:GLU:HG2	4:H:485:ILE:N	2.33	0.43
1:A:237:LYS:HG3	1:A:240:TRP:NE1	2.34	0.43
1:A:360:ILE:HD11	1:A:385:LYS:HB3	2.01	0.43
2:B:139:LYS:O	2:B:142:ASP:OD2	2.37	0.43
2:B:185:LYS:O	2:B:185:LYS:CG	2.65	0.43
2:B:262:TYR:C	2:B:262:TYR:CD1	2.92	0.43
3:C:343:PHE:HB2	3:C:365:VAL:HG13	2.01	0.43
3:C:392:ARG:O	3:C:408:ILE:HB	2.19	0.43
3:C:585:VAL:HG22	3:C:618:LEU:CG	2.49	0.43
3:C:659:TRP:CE2	3:C:660:SER:HB2	2.53	0.43
3:C:664:ARG:HD2	3:C:688:ARG:HG3	1.99	0.43
3:C:682:ARG:HD3	3:C:683:ASN:N	2.34	0.43
3:C:740:TYR:HD1	3:C:740:TYR:C	2.21	0.43
3:C:1048:LEU:HD23	3:C:1050:LEU:CD2	2.32	0.43
3:C:1098:GLN:O	3:C:1108:ILE:HG23	2.19	0.43
3:C:1230:ILE:HD12	3:C:1238:TRP:CZ3	2.54	0.43
3:C:1340:LYS:O	3:C:1342:TYR:N	2.51	0.43
3:C:1421:PHE:O	3:C:1426:VAL:HG21	2.18	0.43
4:D:458:GLU:OE1	4:D:473:SER:N	2.49	0.43
1:E:120:ARG:HB3	1:E:120:ARG:CZ	2.49	0.43
1:E:349:THR:CG2	1:E:351:SER:H	2.19	0.43
2:F:277:ASP:O	2:F:280:SER:OG	2.37	0.43
3:G:548:GLN:HA	3:G:554:GLN:O	2.19	0.43
3:G:558:ILE:O	3:G:558:ILE:CD1	2.65	0.43
3:G:944:ILE:HG22	3:G:945:ARG:N	2.34	0.43
3:G:1085:CYS:SG	3:G:1086:ASP:N	2.92	0.43
3:G:1207:ASP:O	3:G:1208:THR:C	2.56	0.43
3:G:1242:ASP:N	3:G:1243:PRO:CD	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:337:PHE:CB	4:H:465:ASN:ND2	2.76	0.43
2:B:365:PHE:O	2:B:443:HIS:CD2	2.72	0.43
2:B:374:ASN:O	2:B:375:PRO:O	2.37	0.43
2:B:422:VAL:HA	2:B:425:GLN:CG	2.45	0.43
2:B:429:GLU:HG3	2:B:429:GLU:H	1.47	0.43
3:C:344:TYR:HB2	3:C:498:TRP:CE3	2.54	0.43
3:C:609:VAL:HG13	3:C:609:VAL:O	2.19	0.43
3:C:857:LEU:HD12	3:C:1018:VAL:CG1	2.48	0.43
3:C:900:GLU:O	3:C:901:LEU:C	2.57	0.43
3:C:1035:LEU:HD23	3:C:1035:LEU:N	2.34	0.43
3:C:1104:SER:O	3:C:1105:ARG:C	2.57	0.43
3:C:1414:LYS:HD3	3:C:1415:ASP:OD1	2.18	0.43
4:D:254:LEU:HD12	4:D:255:GLY:H	1.78	0.43
4:D:308:ASN:CG	4:D:311:GLY:HA2	2.36	0.43
1:E:95:LYS:HZ3	3:G:881:ARG:H	1.63	0.43
2:F:149:LEU:H	2:F:151:PHE:HE1	1.66	0.43
2:F:240:VAL:C	2:F:242:SER:H	2.21	0.43
2:F:337:ASP:HB3	2:F:340:LYS:CB	2.49	0.43
2:F:342:ASP:O	2:F:346:SER:HB3	2.19	0.43
3:G:362:PHE:CE2	3:G:687:GLY:HA3	2.53	0.43
3:G:387:LEU:HD23	3:G:478:GLY:C	2.39	0.43
3:G:522:LYS:HG3	3:G:525:LEU:CG	2.49	0.43
3:G:607:VAL:C	3:G:609:VAL:H	2.20	0.43
3:G:730:ASN:N	3:G:730:ASN:ND2	2.65	0.43
3:G:770:ASN:HD22	3:G:770:ASN:HA	1.51	0.43
3:G:774:ASN:C	3:G:775:ILE:HG13	2.39	0.43
3:G:1021:LEU:O	3:G:1022:GLY:C	2.55	0.43
3:G:1193:TYR:HD1	3:G:1193:TYR:N	2.16	0.43
1:A:111:ASP:CG	1:A:112:MET:N	2.72	0.43
1:A:335:ASP:CG	1:A:338:LYS:HG2	2.38	0.43
2:B:279:LEU:C	2:B:284:PHE:CE1	2.92	0.43
3:C:792:LEU:HD21	3:C:956:MET:HE1	2.01	0.43
3:C:976:VAL:HG12	3:C:977:THR:N	2.34	0.43
3:C:1237:THR:OG1	3:C:1238:TRP:N	2.51	0.43
4:D:543:GLU:HG3	4:D:543:GLU:O	2.19	0.43
1:E:107:VAL:HG11	1:E:168:TRP:CE3	2.54	0.43
1:E:237:LYS:CD	1:E:256:GLN:OE1	2.67	0.43
2:F:414:LEU:O	2:F:415:VAL:C	2.55	0.43
2:F:452:GLN:O	2:F:455:LEU:HG	2.19	0.43
3:G:853:ASP:HB3	3:G:854:LYS:NZ	2.34	0.43
3:G:861:PHE:CE1	3:G:1036:LEU:HD11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:943:ASP:O	3:G:946:GLN:NE2	2.45	0.43
3:G:1104:SER:O	3:G:1108:ILE:HG13	2.19	0.43
3:G:1181:GLN:HA	3:G:1181:GLN:HE21	1.83	0.43
3:G:1301:THR:HG22	3:G:1302:ASP:N	2.34	0.43
3:G:1366:ARG:HG3	3:G:1366:ARG:NH1	2.33	0.43
4:H:208:SER:HB2	4:H:209:MET:H	1.58	0.43
1:A:55:ILE:CG1	1:A:58:GLN:HE22	2.10	0.43
1:A:95:LYS:NZ	3:C:881:ARG:O	2.52	0.43
1:A:356:GLU:OE1	1:A:386:THR:HG23	2.19	0.43
2:B:291:LEU:HD11	2:B:308:GLN:HE21	1.83	0.43
2:B:314:LYS:O	2:B:317:GLY:N	2.49	0.43
2:B:314:LYS:HG3	2:B:353:PHE:CE2	2.54	0.43
2:B:358:LYS:O	2:B:359:ARG:HG2	2.19	0.43
2:B:398:LEU:O	2:B:403:ILE:HG12	2.19	0.43
2:B:428:PHE:CE2	2:B:437:CYS:HB2	2.54	0.43
3:C:563:LEU:HD22	3:C:563:LEU:HA	1.75	0.43
3:C:577:PRO:HB2	3:C:578:PRO:CD	2.49	0.43
3:C:665:LEU:O	3:C:667:ARG:CG	2.66	0.43
3:C:753:LEU:HD12	3:C:756:MET:HE1	2.00	0.43
3:C:760:ASN:N	3:C:760:ASN:ND2	2.66	0.43
3:C:864:LEU:CD1	3:C:868:ILE:HD11	2.49	0.43
4:D:310:THR:HB	4:D:312:ARG:HG2	2.00	0.43
4:D:495:PHE:C	4:D:497:ARG:N	2.73	0.43
1:E:38:ASN:N	1:E:38:ASN:ND2	2.64	0.43
1:E:111:ASP:OD1	1:E:112:MET:N	2.51	0.43
1:E:348:PRO:HB2	1:E:353:ILE:CG2	2.49	0.43
2:F:22:TYR:N	2:F:25:CYS:CB	2.82	0.43
2:F:34:SER:O	2:F:35:GLU:O	2.37	0.43
2:F:62:SER:O	2:F:63:TYR:HD2	2.02	0.43
3:G:659:TRP:CZ2	3:G:667:ARG:O	2.72	0.43
3:G:694:GLU:OE2	3:G:706:TYR:O	2.37	0.43
3:G:715:ILE:HD12	3:G:755:ILE:HD11	2.01	0.43
3:G:732:TYR:CD2	3:G:738:LEU:HD11	2.53	0.43
3:G:1225:GLU:N	3:G:1226:PRO:CD	2.82	0.43
4:H:161:TYR:CE2	4:H:359:PRO:HG3	2.54	0.43
4:H:269:SER:O	4:H:271:ILE:HG22	2.19	0.43
4:H:354:SER:O	4:H:386:HIS:CE1	2.70	0.43
4:H:460:CYS:O	4:H:471:LEU:N	2.51	0.43
1:A:112:MET:HG3	1:A:119:ARG:CZ	2.49	0.42
1:A:244:LEU:HD11	1:A:256:GLN:NE2	2.33	0.42
2:B:26:LEU:O	2:B:143:PHE:CZ	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:341:PHE:CD1	2:B:345:TYR:HB2	2.54	0.42
2:B:390:ASP:OD1	2:B:390:ASP:C	2.57	0.42
2:B:418:THR:OG1	2:B:420:TYR:HE2	2.01	0.42
2:B:441:LEU:HD12	2:B:446:GLN:CG	2.48	0.42
3:C:340:VAL:CG2	3:C:500:GLU:HG3	2.49	0.42
3:C:439:TYR:O	3:C:448:GLU:HA	2.18	0.42
3:C:910:ILE:CD1	3:C:910:ILE:H	2.31	0.42
3:C:918:LEU:HD22	3:C:918:LEU:HA	1.90	0.42
3:C:1063:THR:OG1	3:C:1064:SER:N	2.52	0.42
3:C:1077:LEU:HD23	3:C:1077:LEU:N	2.34	0.42
3:C:1335:ARG:NH2	4:D:433:PRO:CD	2.79	0.42
3:C:1414:LYS:HG2	3:C:1415:ASP:N	2.34	0.42
4:D:292:LYS:CE	4:D:292:LYS:H	2.32	0.42
4:D:306:GLY:HA3	4:D:315:VAL:O	2.19	0.42
4:D:398:PHE:O	4:D:399:GLU:C	2.57	0.42
4:D:534:THR:HA	4:D:535:PRO:HD2	1.76	0.42
4:D:542:SER:OG	4:D:544:LEU:N	2.41	0.42
1:E:132:TRP:CE3	1:E:135:MET:HG3	2.53	0.42
1:E:143:ASP:OD1	1:E:155:ARG:NE	2.43	0.42
2:F:33:PRO:O	2:F:33:PRO:HG2	2.20	0.42
2:F:119:TRP:CE3	2:F:119:TRP:C	2.92	0.42
2:F:170:SER:CB	2:F:171:PRO:CD	2.95	0.42
2:F:279:LEU:HD23	2:F:279:LEU:H	1.84	0.42
3:G:861:PHE:CG	3:G:1036:LEU:HD11	2.54	0.42
3:G:864:LEU:C	3:G:866:PRO:CD	2.88	0.42
3:G:1081:ARG:CZ	3:G:1083:ASP:OD2	2.67	0.42
4:H:325:LEU:HD22	4:H:326:PRO:HD2	2.01	0.42
1:A:59:SER:HB2	1:A:88:PRO:HB2	2.01	0.42
1:A:153:LYS:CB	1:A:154:HIS:CD2	3.03	0.42
1:A:156:LEU:HD11	1:A:333:PRO:HB3	2.01	0.42
1:A:236:ASN:HD22	1:A:236:ASN:N	2.10	0.42
2:B:53:LEU:HD11	2:B:124:GLU:CD	2.39	0.42
2:B:74:LEU:CD2	2:B:130:PHE:CG	3.02	0.42
2:B:77:GLU:O	2:B:79:ARG:N	2.52	0.42
3:C:571:ASP:OD2	3:C:571:ASP:N	2.50	0.42
3:C:621:PHE:O	3:C:625:LYS:HG2	2.19	0.42
3:C:647:LEU:O	3:C:649:GLN:N	2.52	0.42
3:C:946:GLN:HB3	3:C:946:GLN:HE21	1.68	0.42
3:C:1149:LYS:HG2	3:C:1150:LYS:H	1.70	0.42
4:D:212:LYS:C	4:D:214:PRO:CD	2.86	0.42
4:D:304:MET:HE1	4:D:316:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:344:VAL:HG23	4:D:572:ALA:O	2.18	0.42
4:D:431:HIS:O	4:D:433:PRO:HD3	2.19	0.42
4:D:564:LYS:O	4:D:565:GLY:C	2.55	0.42
1:E:21:PHE:HA	1:E:22:PRO:HD3	1.67	0.42
1:E:56:ARG:O	1:E:58:GLN:N	2.51	0.42
1:E:151:GLY:HA2	2:F:204:ASP:OD2	2.19	0.42
2:F:22:TYR:O	2:F:135:LEU:HD21	2.18	0.42
2:F:211:LEU:O	2:F:212:LYS:C	2.56	0.42
2:F:324:LEU:HD23	2:F:349:ILE:CG2	2.50	0.42
2:F:434:VAL:HG23	2:F:435:ASP:N	2.34	0.42
3:G:382:ASN:HB2	3:G:521:LEU:O	2.19	0.42
3:G:563:LEU:HD13	3:G:579:PHE:CE2	2.53	0.42
3:G:932:GLN:NE2	3:G:933:ASP:N	2.57	0.42
3:G:991:VAL:HA	3:G:994:MET:HE2	2.00	0.42
3:G:1036:LEU:CD1	3:G:1037:GLU:N	2.70	0.42
3:G:1055:TYR:CD1	3:G:1055:TYR:O	2.73	0.42
3:G:1227:ILE:HG21	3:G:1230:ILE:HG12	2.01	0.42
3:G:1439:GLN:O	3:G:1442:SER:CB	2.67	0.42
4:H:343:LEU:CD1	4:H:344:VAL:N	2.78	0.42
4:H:403:LYS:HG2	4:H:403:LYS:H	1.66	0.42
4:H:434:VAL:O	4:H:436:PRO:O	2.37	0.42
4:H:535:PRO:HG3	4:H:538:LEU:CD2	2.49	0.42
1:A:40:PHE:HB3	1:A:41:GLN:NE2	2.34	0.42
2:B:421:GLN:O	2:B:424:CYS:HB3	2.18	0.42
3:C:437:LYS:HD3	3:C:800:ASN:O	2.19	0.42
3:C:541:ALA:HA	3:C:635:VAL:O	2.19	0.42
3:C:710:GLU:O	3:C:711:LEU:C	2.57	0.42
3:C:735:SER:O	3:C:736:SER:C	2.58	0.42
3:C:861:PHE:CD2	3:C:1038:ILE:HA	2.54	0.42
3:C:1081:ARG:NE	3:C:1083:ASP:OD2	2.52	0.42
3:C:1098:GLN:HE21	3:C:1111:ASN:CB	2.32	0.42
3:C:1243:PRO:O	3:C:1244:THR:C	2.58	0.42
4:D:334:ASP:OD1	4:D:337:PHE:HE2	2.01	0.42
4:D:349:TYR:OH	4:D:377:LEU:HB3	2.19	0.42
1:E:187:GLU:OE1	2:F:196:ARG:HG3	2.19	0.42
1:E:223:PHE:HE2	1:E:269:TRP:CZ2	2.37	0.42
2:F:103:HIS:NE2	2:F:107:ARG:NH2	2.67	0.42
3:G:804:PRO:CG	3:G:967:PHE:CE2	3.00	0.42
3:G:846:ASP:HA	3:G:847:PRO:HD2	1.79	0.42
3:G:977:THR:C	3:G:981:ARG:NH1	2.72	0.42
3:G:1446:TYR:HD2	3:G:1446:TYR:HA	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:212:LYS:C	4:H:214:PRO:CD	2.87	0.42
4:H:346:CYS:SG	4:H:378:PHE:CB	3.07	0.42
4:H:574:LEU:CG	4:H:593:VAL:HG22	2.48	0.42
2:B:300:HIS:HA	2:B:331:PHE:CE1	2.55	0.42
2:B:401:TYR:N	2:B:401:TYR:HD1	2.17	0.42
3:C:348:ALA:O	3:C:349:TYR:HB2	2.19	0.42
3:C:773:GLY:O	3:C:794:HIS:NE2	2.48	0.42
3:C:1093:ASN:O	3:C:1095:VAL:N	2.52	0.42
3:C:1316:LYS:N	3:C:1316:LYS:HD3	2.34	0.42
3:C:1345:TRP:HD1	3:C:1382:GLU:OE1	2.02	0.42
4:D:310:THR:HG22	4:D:312:ARG:HG2	2.01	0.42
2:F:246:LEU:N	2:F:246:LEU:HD23	2.35	0.42
2:F:367:CYS:O	2:F:368:LEU:C	2.54	0.42
3:G:440:ALA:CB	3:G:877:THR:HG22	2.50	0.42
3:G:458:SER:OG	3:G:461:MET:HG3	2.19	0.42
3:G:489:MET:O	3:G:490:ASN:C	2.58	0.42
3:G:541:ALA:HA	3:G:635:VAL:O	2.19	0.42
3:G:552:ASN:ND2	3:G:553:HIS:ND1	2.68	0.42
3:G:591:ASP:OD1	3:G:591:ASP:C	2.57	0.42
3:G:703:CYS:CA	3:G:704:LYS:HE2	2.47	0.42
4:H:237:ILE:HD11	4:H:320:TYR:CE1	2.54	0.42
4:H:270:VAL:HB	4:H:286:VAL:HG23	2.02	0.42
4:H:319:LEU:O	4:H:319:LEU:CG	2.67	0.42
4:H:357:TYR:N	4:H:357:TYR:HD1	2.15	0.42
2:B:95:PRO:O	2:B:96:ARG:C	2.58	0.42
2:B:279:LEU:O	2:B:283:SER:N	2.47	0.42
2:B:283:SER:HA	2:B:451:SER:OG	2.19	0.42
2:B:366:SER:O	2:B:369:LYS:HB3	2.18	0.42
3:C:403:GLU:H	3:C:403:GLU:HG3	1.59	0.42
3:C:542:PHE:CD2	3:C:542:PHE:C	2.93	0.42
3:C:630:ASP:OD1	3:C:688:ARG:NH2	2.53	0.42
3:C:633:ILE:HG12	3:C:689:MET:HB2	2.00	0.42
3:C:711:LEU:O	3:C:755:ILE:HD11	2.19	0.42
3:C:1222:ARG:HG2	3:C:1223:ILE:N	2.35	0.42
4:D:228:GLY:O	4:D:229:SER:C	2.58	0.42
4:D:355:ILE:CD1	4:D:388:GLN:HE22	2.20	0.42
4:D:363:LEU:HD22	4:D:562:LEU:HD22	2.01	0.42
4:D:376:ILE:HA	4:D:421:VAL:HG12	2.00	0.42
4:D:592:ALA:O	4:D:593:VAL:CG2	2.68	0.42
1:E:95:LYS:HA	3:G:448:GLU:CD	2.39	0.42
1:E:246:LEU:HD12	1:E:296:ILE:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:49:ARG:HG3	2:F:106:LEU:CD1	2.46	0.42
2:F:292:HIS:O	2:F:293:LYS:C	2.56	0.42
3:G:340:VAL:CG2	3:G:341:PHE:N	2.82	0.42
3:G:344:TYR:HB2	3:G:498:TRP:CD2	2.53	0.42
3:G:548:GLN:HE21	3:G:548:GLN:HB2	1.63	0.42
3:G:1329:LYS:HE3	3:G:1333:ASP:CG	2.40	0.42
3:G:1395:TYR:O	3:G:1398:ILE:HG12	2.18	0.42
3:G:1423:THR:O	3:G:1424:PRO:C	2.56	0.42
4:H:296:LEU:HD23	4:H:300:GLN:CD	2.39	0.42
4:H:421:VAL:O	4:H:421:VAL:HG12	2.20	0.42
4:H:459:PRO:CB	4:H:471:LEU:O	2.67	0.42
4:H:494:ARG:HH11	4:H:494:ARG:CG	2.24	0.42
1:A:78:ILE:HG22	1:A:319:SER:OG	2.18	0.42
1:A:132:TRP:CD2	1:A:344:PRO:HG2	2.54	0.42
1:A:141:ILE:CD1	1:A:303:PRO:CD	2.98	0.42
2:B:75:GLU:HA	2:B:78:LEU:HB2	2.00	0.42
3:C:345:TRP:HZ2	3:C:495:GLY:HA2	1.84	0.42
3:C:450:SER:O	3:C:452:TYR:HD1	2.03	0.42
3:C:519:MET:SD	3:C:520:ALA:C	2.98	0.42
3:C:531:ASP:O	3:C:532:VAL:CG2	2.66	0.42
3:C:663:GLY:O	3:C:688:ARG:NE	2.52	0.42
3:C:693:VAL:O	3:C:694:GLU:C	2.56	0.42
3:C:977:THR:C	3:C:981:ARG:HH12	2.23	0.42
3:C:1050:LEU:N	3:C:1050:LEU:HD23	2.34	0.42
3:C:1193:TYR:CD1	3:C:1193:TYR:N	2.88	0.42
3:C:1294:ASN:CG	3:C:1295:VAL:N	2.72	0.42
4:D:349:TYR:HE1	4:D:381:PHE:CD1	2.37	0.42
4:D:512:TYR:HA	4:D:514:PRO:CD	2.50	0.42
1:E:55:ILE:HD12	1:E:56:ARG:N	2.28	0.42
1:E:125:ALA:O	1:E:163:ARG:HD3	2.20	0.42
1:E:178:SER:O	1:E:182:ARG:HG3	2.20	0.42
2:F:303:HIS:O	2:F:304:GLY:C	2.58	0.42
2:F:320:LEU:CA	2:F:353:PHE:CE1	2.96	0.42
3:G:415:GLU:HB3	3:G:419:GLU:OE2	2.20	0.42
3:G:759:LEU:O	3:G:760:ASN:C	2.57	0.42
3:G:1002:ASP:C	3:G:1002:ASP:OD1	2.55	0.42
3:G:1105:ARG:HH11	3:G:1105:ARG:CB	2.32	0.42
3:G:1222:ARG:CG	3:G:1223:ILE:CD1	2.98	0.42
3:G:1235:ILE:H	3:G:1235:ILE:HG13	1.58	0.42
4:H:546:TYR:CD1	4:H:546:TYR:N	2.62	0.42
1:A:56:ARG:O	1:A:58:GLN:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ASN:HD22	1:A:90:GLN:N	2.18	0.42
1:A:355:ARG:NH1	1:A:355:ARG:CB	2.58	0.42
2:B:81:LEU:O	2:B:83:PHE:CD1	2.73	0.42
2:B:284:PHE:HB3	2:B:288:MET:HB2	2.02	0.42
2:B:401:TYR:N	2:B:401:TYR:CD1	2.87	0.42
3:C:574:ALA:HA	3:C:575:PRO:HD3	1.77	0.42
3:C:610:GLU:OE1	3:C:610:GLU:C	2.57	0.42
3:C:755:ILE:O	3:C:759:LEU:HG	2.20	0.42
3:C:1122:ASN:HB3	3:C:1127:SER:HB3	2.01	0.42
3:C:1182:ASP:HA	3:C:1204:LEU:CD2	2.50	0.42
4:D:201:ALA:O	4:D:202:LEU:HB3	2.18	0.42
4:D:383:ASP:C	4:D:385:LYS:N	2.73	0.42
1:E:73:MET:O	1:E:74:ASN:C	2.56	0.42
1:E:191:LEU:HD23	1:E:191:LEU:O	2.20	0.42
1:E:360:ILE:O	1:E:360:ILE:HG22	2.20	0.42
2:F:54:LYS:O	2:F:58:ASN:ND2	2.53	0.42
3:G:512:SER:C	3:G:514:CYS:H	2.22	0.42
3:G:682:ARG:C	3:G:682:ARG:CD	2.85	0.42
3:G:764:LEU:CD1	3:G:768:ILE:HD11	2.50	0.42
3:G:874:ILE:HG23	3:G:879:VAL:HG21	2.01	0.42
3:G:1026:LYS:HG2	3:G:1027:SER:N	2.35	0.42
3:G:1085:CYS:SG	3:G:1087:LEU:N	2.93	0.42
3:G:1186:LEU:O	3:G:1191:ARG:HD3	2.20	0.42
3:G:1329:LYS:O	3:G:1330:LEU:C	2.58	0.42
3:G:1388:LEU:O	3:G:1390:THR:N	2.53	0.42
3:G:1408:LEU:HD13	3:G:1408:LEU:HA	1.78	0.42
4:H:292:LYS:NZ	4:H:317:THR:O	2.53	0.42
4:H:592:ALA:O	4:H:593:VAL:HG23	2.18	0.42
1:A:343:ASP:O	1:A:347:VAL:HG23	2.18	0.42
2:B:230:LEU:HD23	2:B:230:LEU:HA	1.66	0.42
3:C:441:PHE:HZ	3:C:796:PHE:CZ	2.38	0.42
3:C:555:ASN:O	3:C:650:ARG:HD3	2.19	0.42
3:C:571:ASP:HB2	3:C:941:GLN:NE2	2.35	0.42
3:C:756:MET:SD	3:C:762:LEU:HD21	2.60	0.42
3:C:774:ASN:C	3:C:775:ILE:HD12	2.39	0.42
3:C:951:LEU:O	3:C:952:THR:C	2.57	0.42
3:C:1116:LEU:O	3:C:1117:ILE:C	2.58	0.42
3:C:1182:ASP:OD1	3:C:1193:TYR:OH	2.36	0.42
3:C:1236:ALA:HB1	3:C:1246:PHE:CE2	2.55	0.42
3:C:1245:GLN:HG3	3:C:1249:HIS:HE1	1.83	0.42
3:C:1349:GLU:OE2	3:C:1378:THR:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:382:LEU:HD22	4:D:401:ILE:CG2	2.50	0.42
4:D:411:GLU:CG	4:D:414:ARG:NH1	2.80	0.42
4:D:592:ALA:C	4:D:593:VAL:HG23	2.40	0.42
1:E:43:ARG:CZ	1:E:83:VAL:CG2	2.98	0.42
1:E:50:LYS:N	1:E:50:LYS:CD	2.67	0.42
1:E:171:ASP:O	1:E:174:VAL:HB	2.19	0.42
1:E:237:LYS:NZ	1:E:256:GLN:NE2	2.67	0.42
2:F:94:GLU:OE2	2:F:94:GLU:CA	2.68	0.42
2:F:177:LYS:HA	2:F:177:LYS:HD3	1.89	0.42
2:F:241:GLN:O	2:F:241:GLN:HG2	2.20	0.42
2:F:316:ILE:HG22	2:F:448:PHE:CD2	2.54	0.42
2:F:429:GLU:O	2:F:433:ASN:N	2.53	0.42
3:G:359:VAL:HG12	3:G:360:PHE:N	2.35	0.42
3:G:589:PRO:HG2	3:G:590:LYS:N	2.34	0.42
3:G:789:GLU:CD	3:G:966:ARG:HD3	2.40	0.42
3:G:865:TYR:N	3:G:866:PRO:HD3	2.35	0.42
3:G:898:ILE:O	3:G:899:PRO:O	2.37	0.42
3:G:946:GLN:NE2	3:G:947:LYS:N	2.67	0.42
3:G:971:PRO:O	3:G:972:LEU:C	2.58	0.42
3:G:1027:SER:O	3:G:1028:GLU:C	2.57	0.42
3:G:1160:TRP:CE3	3:G:1161:ILE:HA	2.55	0.42
3:G:1184:SER:C	3:G:1186:LEU:N	2.72	0.42
3:G:1195:PRO:HA	3:G:1198:LEU:HD23	2.01	0.42
4:H:406:LEU:HD23	4:H:442:TYR:CD2	2.55	0.42
4:H:546:TYR:CB	4:H:595:VAL:HG11	2.50	0.42
4:H:575:TYR:O	4:H:576:LEU:HD23	2.20	0.42
4:H:580:ALA:O	4:H:587:GLN:OE1	2.37	0.42
1:A:88:PRO:C	1:A:90:GLN:H	2.23	0.42
1:A:237:LYS:HA	1:A:240:TRP:CG	2.54	0.42
1:A:255:LEU:HD23	1:A:275:VAL:HG21	2.02	0.42
1:A:323:VAL:HG11	1:A:350:ILE:HG21	2.02	0.42
2:B:42:PHE:C	2:B:42:PHE:CD2	2.93	0.42
2:B:93:TYR:O	2:B:94:GLU:C	2.58	0.42
2:B:94:GLU:HA	2:B:94:GLU:OE2	2.20	0.42
2:B:139:LYS:O	2:B:142:ASP:CG	2.58	0.42
2:B:374:ASN:O	2:B:375:PRO:C	2.54	0.42
2:B:414:LEU:O	2:B:415:VAL:C	2.58	0.42
3:C:485:GLU:OE1	3:C:966:ARG:NH1	2.49	0.42
3:C:568:PHE:CE1	3:C:575:PRO:HD2	2.54	0.42
3:C:698:LYS:HG2	3:C:706:TYR:CD1	2.55	0.42
3:C:851:PHE:CD1	3:C:1048:LEU:CD1	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:864:LEU:CD2	3:C:1004:ASP:CB	2.92	0.42
3:C:911:LEU:HB3	3:C:912:PRO:HD3	2.01	0.42
3:C:1023:ASN:O	3:C:1024:LYS:C	2.59	0.42
3:C:1294:ASN:CG	3:C:1295:VAL:H	2.22	0.42
3:C:1411:ASP:O	3:C:1415:ASP:OD1	2.37	0.42
4:D:291:LEU:HD12	4:D:292:LYS:HZ1	1.85	0.42
4:D:403:LYS:HG2	4:D:403:LYS:H	1.62	0.42
4:D:435:TYR:HB3	4:D:518:MET:HE1	2.02	0.42
1:E:28:ARG:HD3	1:E:399:LEU:HD13	2.01	0.42
1:E:56:ARG:HD3	1:E:57:TYR:CE2	2.54	0.42
1:E:142:ILE:HD11	1:E:303:PRO:CG	2.50	0.42
1:E:232:ASP:O	1:E:234:LEU:N	2.52	0.42
2:F:49:ARG:NH1	2:F:124:GLU:CD	2.73	0.42
2:F:358:LYS:HE2	2:F:358:LYS:HB3	1.78	0.42
3:G:438:ASN:HA	3:G:448:GLU:O	2.20	0.42
3:G:523:PRO:C	3:G:525:LEU:N	2.73	0.42
3:G:849:VAL:HG13	3:G:1226:PRO:HB3	2.01	0.42
3:G:857:LEU:CD2	3:G:859:LEU:CG	2.97	0.42
3:G:860:ASP:C	3:G:1038:ILE:HD12	2.40	0.42
3:G:1095:VAL:O	3:G:1098:GLN:N	2.52	0.42
3:G:1221:ALA:O	3:G:1222:ARG:C	2.58	0.42
3:G:1295:VAL:HG21	3:G:1404:ALA:HB2	2.02	0.42
4:H:376:ILE:H	4:H:376:ILE:HG13	1.55	0.42
1:A:145:ALA:O	1:A:146:LEU:C	2.58	0.42
1:A:332:VAL:HA	1:A:333:PRO:HD3	1.97	0.42
2:B:253:LEU:O	2:B:254:SER:HB3	2.20	0.42
2:B:295:LEU:O	2:B:330:GLU:OE2	2.38	0.42
3:C:340:VAL:HG22	3:C:341:PHE:N	2.34	0.42
3:C:366:TRP:HB2	3:C:373:HIS:CD2	2.55	0.42
3:C:374:VAL:C	3:C:375:SER:O	2.57	0.42
3:C:457:TYR:N	3:C:457:TYR:CD1	2.87	0.42
3:C:548:GLN:HA	3:C:554:GLN:O	2.20	0.42
3:C:586:VAL:HB	3:C:742:LEU:HD21	2.01	0.42
3:C:659:TRP:HH2	3:C:667:ARG:HD3	1.85	0.42
3:C:988:LYS:HE2	3:C:988:LYS:HB3	1.94	0.42
4:D:170:VAL:HG13	4:D:594:GLN:CG	2.49	0.42
4:D:298:PRO:HD3	4:D:483:GLU:O	2.19	0.42
1:E:158:VAL:HG22	1:E:333:PRO:CA	2.45	0.42
1:E:251:ILE:HG23	1:E:275:VAL:HG11	2.00	0.42
2:F:48:ASP:O	2:F:50:VAL:N	2.52	0.42
2:F:89:LEU:O	2:F:91:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:240:VAL:O	2:F:242:SER:N	2.53	0.42
2:F:314:LYS:O	2:F:317:GLY:N	2.50	0.42
3:G:343:PHE:CB	3:G:365:VAL:HG12	2.50	0.42
3:G:1322:PHE:HB3	3:G:1325:GLN:CD	2.40	0.42
3:G:1420:GLN:NE2	3:G:1421:PHE:CE2	2.87	0.42
4:H:212:LYS:O	4:H:215:ASP:N	2.42	0.42
4:H:558:ASN:HA	4:H:559:PRO:HD2	1.88	0.42
4:H:591:ILE:H	4:H:591:ILE:HG12	1.68	0.42
1:A:244:LEU:HB3	1:A:252:HIS:NE2	2.35	0.41
2:B:22:TYR:N	2:B:25:CYS:CB	2.82	0.41
2:B:192:LEU:HA	2:B:195:PHE:CE2	2.55	0.41
2:B:293:LYS:HE2	2:B:297:GLU:CD	2.40	0.41
2:B:394:LEU:HG	2:B:398:LEU:HD11	2.02	0.41
3:C:350:GLU:OE2	3:C:482:SER:HB2	2.19	0.41
3:C:410:MET:HE1	3:C:453:LEU:HA	2.02	0.41
3:C:636:GLY:HA3	3:C:639:ILE:CD1	2.42	0.41
3:C:787:ARG:O	3:C:790:PHE:HB2	2.19	0.41
3:C:1100:LEU:HA	3:C:1100:LEU:HD23	1.74	0.41
3:C:1103:GLN:HB3	3:C:1107:THR:HG21	2.02	0.41
3:C:1192:ALA:C	3:C:1193:TYR:CD1	2.94	0.41
3:C:1293:ASP:OD1	3:C:1293:ASP:N	2.48	0.41
3:C:1328:ASN:O	3:C:1329:LYS:C	2.59	0.41
3:C:1406:GLU:H	3:C:1406:GLU:HG2	1.69	0.41
4:D:407:ARG:HG3	4:D:407:ARG:NH1	2.33	0.41
4:D:480:LEU:CD1	4:D:511:LEU:HB2	2.47	0.41
1:E:211:PHE:C	1:E:211:PHE:CD1	2.94	0.41
2:F:115:GLU:CB	3:G:989:GLU:OE2	2.68	0.41
2:F:119:TRP:HE3	2:F:120:PHE:N	2.18	0.41
2:F:195:PHE:HB2	2:F:202:LEU:HD11	2.03	0.41
3:G:439:TYR:OH	3:G:441:PHE:HB2	2.19	0.41
3:G:589:PRO:CG	3:G:592:CYS:CB	2.94	0.41
3:G:643:GLU:HA	3:G:646:VAL:CG2	2.50	0.41
3:G:1006:ILE:CG2	3:G:1008:ILE:HD11	2.49	0.41
3:G:1023:ASN:O	3:G:1024:LYS:C	2.58	0.41
3:G:1182:ASP:HB2	3:G:1184:SER:HB3	2.01	0.41
4:H:240:PHE:CE1	4:H:254:LEU:HB2	2.55	0.41
2:B:127:LEU:HA	2:B:127:LEU:HD12	1.71	0.41
2:B:279:LEU:C	2:B:284:PHE:HE1	2.23	0.41
3:C:523:PRO:C	3:C:525:LEU:N	2.73	0.41
3:C:560:MET:SD	3:C:622:PHE:CG	3.13	0.41
3:C:623:LEU:HD22	3:C:661:LYS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:784:ARG:HG2	3:C:784:ARG:HH11	1.85	0.41
3:C:1026:LYS:O	3:C:1027:SER:C	2.58	0.41
3:C:1074:LEU:HB3	3:C:1077:LEU:CD1	2.49	0.41
3:C:1081:ARG:CD	3:C:1352:THR:O	2.68	0.41
4:D:287:ASP:HB3	4:D:315:VAL:HA	2.01	0.41
4:D:367:ILE:CG2	4:D:375:CYS:SG	3.08	0.41
1:E:67:GLU:C	1:E:71:GLN:HG3	2.39	0.41
1:E:163:ARG:HG2	1:E:163:ARG:HH21	1.84	0.41
2:F:282:LYS:HE2	2:F:282:LYS:HB3	1.94	0.41
2:F:315:GLY:C	2:F:445:ASN:ND2	2.73	0.41
2:F:370:ILE:O	2:F:370:ILE:CG2	2.68	0.41
3:G:383:ILE:HG12	3:G:523:PRO:CG	2.50	0.41
3:G:760:ASN:CB	3:G:944:ILE:HD11	2.45	0.41
3:G:881:ARG:HH11	3:G:972:LEU:HD21	1.85	0.41
3:G:1276:CYS:HB3	3:G:1391:GLN:OE1	2.20	0.41
3:G:1342:TYR:CB	4:H:519:ALA:HB1	2.48	0.41
3:G:1345:TRP:CH2	3:G:1358:ARG:HG3	2.55	0.41
3:G:1428:GLN:HA	3:G:1431:ARG:NH2	2.34	0.41
4:H:174:PHE:CG	4:H:175:GLY:N	2.88	0.41
4:H:567:VAL:CG1	4:H:568:GLY:N	2.67	0.41
1:A:118:VAL:O	1:A:118:VAL:HG12	2.19	0.41
1:A:166:HIS:CD2	1:A:166:HIS:N	2.88	0.41
2:B:67:THR:O	2:B:70:TYR:HB3	2.20	0.41
2:B:358:LYS:HG3	2:B:362:TYR:HB3	2.02	0.41
3:C:488:LEU:HD23	3:C:488:LEU:H	1.83	0.41
3:C:577:PRO:CB	3:C:578:PRO:CD	2.97	0.41
3:C:765:ALA:O	3:C:766:LEU:C	2.57	0.41
3:C:858:LEU:HD12	3:C:1007:MET:HA	2.02	0.41
3:C:1150:LYS:O	3:C:1190:GLN:HG3	2.19	0.41
3:C:1209:GLN:O	3:C:1210:TYR:C	2.58	0.41
3:C:1251:TYR:CE1	3:C:1253:LYS:HB3	2.55	0.41
4:D:333:GLU:OE1	4:D:333:GLU:N	2.54	0.41
4:D:460:CYS:O	4:D:471:LEU:N	2.53	0.41
2:F:273:LEU:C	2:F:275:GLN:H	2.24	0.41
3:G:446:VAL:HA	3:G:447:PRO:HD2	1.78	0.41
3:G:513:TRP:NE1	3:G:666:LYS:HG2	2.35	0.41
3:G:522:LYS:CG	3:G:525:LEU:HD11	2.48	0.41
3:G:589:PRO:HG2	3:G:590:LYS:H	1.85	0.41
3:G:861:PHE:HD2	3:G:861:PHE:HA	1.69	0.41
3:G:926:LYS:HA	3:G:926:LYS:HZ3	1.85	0.41
3:G:951:LEU:O	3:G:952:THR:C	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1015:LEU:HD12	3:G:1018:VAL:HB	2.01	0.41
3:G:1186:LEU:CD2	3:G:1187:THR:N	2.81	0.41
3:G:1217:HIS:CD2	3:G:1246:PHE:CZ	3.08	0.41
4:H:343:LEU:HG	4:H:344:VAL:N	2.35	0.41
1:A:108:PHE:N	1:A:167:CYS:SG	2.93	0.41
1:A:139:ILE:O	1:A:143:ASP:HB2	2.21	0.41
1:A:208:ILE:HG23	1:A:212:ILE:CB	2.49	0.41
1:A:298:LEU:O	1:A:300:TYR:N	2.53	0.41
2:B:56:VAL:CG2	2:B:127:LEU:HD13	2.48	0.41
2:B:138:ASP:HA	2:B:141:GLN:CD	2.40	0.41
2:B:259:GLY:O	2:B:260:GLN:CB	2.68	0.41
2:B:371:ILE:HG22	2:B:372:LEU:HD23	2.01	0.41
3:C:360:PHE:HB3	3:C:362:PHE:HE1	1.86	0.41
3:C:438:ASN:HA	3:C:448:GLU:O	2.20	0.41
3:C:771:ILE:HG13	3:C:771:ILE:H	1.64	0.41
3:C:775:ILE:HG22	3:C:778:ARG:HG2	2.01	0.41
3:C:1036:LEU:O	3:C:1037:GLU:CG	2.61	0.41
3:C:1140:THR:O	3:C:1140:THR:CG2	2.61	0.41
3:C:1334:ILE:HG22	3:C:1440:PHE:CE1	2.54	0.41
3:C:1374:CYS:SG	3:C:1376:LYS:N	2.84	0.41
3:C:1415:ASP:O	3:C:1416:LYS:C	2.59	0.41
4:D:479:HIS:ND1	4:D:509:TYR:CZ	2.88	0.41
4:D:540:ILE:C	4:D:541:PRO:O	2.59	0.41
2:F:38:SER:O	2:F:40:ILE:N	2.54	0.41
2:F:120:PHE:O	2:F:121:ILE:C	2.59	0.41
3:G:366:TRP:CH2	3:G:371:GLU:HA	2.55	0.41
3:G:1294:ASN:ND2	3:G:1295:VAL:N	2.68	0.41
4:H:219:VAL:O	4:H:221:THR:N	2.53	0.41
4:H:476:LEU:O	4:H:480:LEU:HD23	2.21	0.41
4:H:541:PRO:O	4:H:542:SER:HB3	2.19	0.41
1:A:13:LEU:CD2	1:A:17:TYR:CE2	3.04	0.41
1:A:76:TYR:CD1	1:A:76:TYR:N	2.88	0.41
1:A:162:ARG:HG3	1:A:327:THR:HG21	2.02	0.41
1:A:234:LEU:CG	1:A:243:ILE:HD12	2.51	0.41
2:B:120:PHE:O	2:B:123:GLN:N	2.53	0.41
2:B:285:PRO:HA	2:B:447:PHE:CE2	2.55	0.41
2:B:431:ILE:HG23	2:B:432:HIS:HD1	1.84	0.41
3:C:359:VAL:HG11	3:C:484:LEU:HD13	2.02	0.41
3:C:638:ASN:ND2	3:C:642:PHE:HD1	2.19	0.41
3:C:843:LEU:CA	3:C:981:ARG:HG2	2.48	0.41
3:C:901:LEU:C	3:C:902:PRO:O	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1137:LYS:HZ2	3:C:1153:PRO:HG2	1.84	0.41
3:C:1157:VAL:HG21	3:C:1177:TYR:HB2	1.98	0.41
3:C:1211:TYR:HA	3:C:1215:GLN:CB	2.49	0.41
3:C:1328:ASN:CG	4:D:398:PHE:CE2	2.94	0.41
4:D:182:TRP:CZ3	4:D:575:TYR:CD2	3.08	0.41
4:D:182:TRP:HB3	4:D:341:MET:HE3	2.03	0.41
4:D:243:LEU:HD22	4:D:253:LEU:CD1	2.45	0.41
4:D:445:LEU:CG	4:D:450:LYS:HZ3	2.34	0.41
1:E:82:ALA:CB	1:E:104:LYS:HD3	2.47	0.41
2:F:73:LYS:O	2:F:76:SER:HB2	2.20	0.41
2:F:311:LEU:C	2:F:313:LEU:N	2.74	0.41
3:G:349:TYR:CD1	3:G:665:LEU:HD12	2.48	0.41
3:G:362:PHE:CG	3:G:687:GLY:HA2	2.55	0.41
3:G:532:VAL:CG1	3:G:533:SER:N	2.84	0.41
3:G:661:LYS:C	3:G:663:GLY:H	2.23	0.41
3:G:693:VAL:O	3:G:694:GLU:C	2.58	0.41
3:G:778:ARG:O	3:G:780:LEU:N	2.54	0.41
3:G:903:ASP:OD1	3:G:905:SER:CB	2.68	0.41
3:G:975:LEU:C	3:G:975:LEU:CD1	2.82	0.41
3:G:1055:TYR:C	3:G:1055:TYR:HD1	2.24	0.41
3:G:1240:GLY:HA3	3:G:1242:ASP:OD1	2.20	0.41
3:G:1245:GLN:HA	3:G:1248:VAL:CG2	2.50	0.41
3:G:1359:HIS:CD2	3:G:1359:HIS:C	2.94	0.41
3:G:1408:LEU:HD12	3:G:1413:GLU:OE1	2.19	0.41
3:G:1427:LEU:HB3	3:G:1431:ARG:HH22	1.85	0.41
4:H:422:PHE:N	4:H:422:PHE:HD2	2.19	0.41
4:H:469:PHE:CD2	4:H:539:ILE:HD11	2.55	0.41
1:A:106:LEU:HD12	1:A:106:LEU:HA	1.75	0.41
2:B:34:SER:O	2:B:35:GLU:O	2.38	0.41
2:B:87:GLU:HA	2:B:93:TYR:CE1	2.55	0.41
2:B:218:ILE:HG22	2:B:219:LEU:N	2.34	0.41
2:B:385:PRO:C	2:B:387:ARG:N	2.74	0.41
3:C:438:ASN:O	3:C:802:ILE:HG12	2.20	0.41
3:C:583:PHE:CD1	3:C:583:PHE:C	2.93	0.41
3:C:711:LEU:C	3:C:755:ILE:HD11	2.41	0.41
3:C:729:GLN:O	3:C:732:TYR:HB2	2.20	0.41
3:C:932:GLN:CG	3:C:933:ASP:N	2.84	0.41
3:C:1042:GLY:O	3:C:1043:VAL:HG23	2.21	0.41
3:C:1193:TYR:CE2	3:C:1204:LEU:CD1	3.04	0.41
3:C:1217:HIS:N	3:C:1218:PRO:CD	2.84	0.41
3:C:1242:ASP:N	3:C:1243:PRO:CD	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1305:PRO:O	3:C:1308:TYR:N	2.47	0.41
4:D:548:VAL:CG1	4:D:557:VAL:HG22	2.49	0.41
1:E:209:HIS:ND1	1:E:211:PHE:N	2.67	0.41
2:F:407:GLY:O	2:F:408:ILE:C	2.58	0.41
3:G:381:LYS:HD3	3:G:519:MET:HE2	2.03	0.41
3:G:664:ARG:HD2	3:G:688:ARG:HG3	2.03	0.41
3:G:794:HIS:O	3:G:795:ALA:C	2.59	0.41
3:G:857:LEU:CD1	3:G:1018:VAL:CG1	2.99	0.41
3:G:868:ILE:C	3:G:870:GLN:H	2.24	0.41
3:G:1337:PHE:CE2	3:G:1391:GLN:CG	2.98	0.41
4:H:213:LEU:H	4:H:213:LEU:HG	1.69	0.41
4:H:419:HIS:O	4:H:420:LEU:HD23	2.20	0.41
4:H:503:LEU:HD11	4:H:554:CYS:HB3	2.01	0.41
4:H:544:LEU:O	4:H:545:ARG:C	2.59	0.41
1:A:139:ILE:HG22	1:A:140:ARG:N	2.35	0.41
1:A:237:LYS:O	1:A:241:ASP:N	2.49	0.41
1:A:344:PRO:HD2	1:A:345:PHE:CZ	2.56	0.41
1:A:350:ILE:CA	1:A:353:ILE:HG12	2.47	0.41
2:B:44:ASN:O	2:B:48:ASP:OD2	2.39	0.41
2:B:46:ALA:HA	2:B:106:LEU:HD11	2.03	0.41
2:B:178:LEU:HD11	2:B:183:ILE:HD11	2.02	0.41
2:B:245:ARG:C	2:B:246:LEU:HD23	2.41	0.41
3:C:430:PHE:N	3:C:430:PHE:CD2	2.88	0.41
3:C:589:PRO:HG2	3:C:592:CYS:HB2	2.02	0.41
3:C:701:ILE:HG13	3:C:702:ARG:N	2.35	0.41
3:C:935:ASN:ND2	3:C:937:ASP:CB	2.69	0.41
3:C:1054:LYS:HE2	3:C:1054:LYS:HB2	1.97	0.41
3:C:1211:TYR:O	3:C:1215:GLN:HB2	2.20	0.41
3:C:1234:LEU:HG	3:C:1238:TRP:CZ3	2.56	0.41
4:D:279:SER:O	4:D:281:GLY:N	2.53	0.41
1:E:237:LYS:HA	1:E:240:TRP:NE1	2.35	0.41
1:E:398:PHE:CE2	1:E:402:LEU:HD21	2.55	0.41
1:E:406:ARG:O	1:E:410:LEU:HB2	2.21	0.41
2:F:161:LEU:CD2	2:F:162:ARG:NH1	2.84	0.41
2:F:298:ASN:N	2:F:298:ASN:ND2	2.68	0.41
3:G:395:LYS:HB2	3:G:408:ILE:CD1	2.47	0.41
3:G:855:PHE:CD2	3:G:1045:LYS:HA	2.56	0.41
3:G:901:LEU:HD12	3:G:902:PRO:O	2.20	0.41
3:G:1273:TYR:N	3:G:1273:TYR:CD1	2.89	0.41
4:H:403:LYS:HE2	4:H:442:TYR:CE1	2.55	0.41
1:A:118:VAL:HG13	1:A:300:TYR:CG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:VAL:HA	1:A:177:LEU:HD21	2.03	0.41
1:A:274:LYS:O	1:A:275:VAL:C	2.59	0.41
2:B:275:GLN:O	2:B:279:LEU:HG	2.21	0.41
2:B:311:LEU:C	2:B:313:LEU:N	2.73	0.41
3:C:365:VAL:CG1	3:C:376:CYS:SG	3.09	0.41
3:C:560:MET:HE3	3:C:622:PHE:CD2	2.55	0.41
3:C:577:PRO:HB2	3:C:578:PRO:HD2	2.02	0.41
3:C:602:ILE:HD13	3:C:609:VAL:CG1	2.43	0.41
3:C:651:ILE:CD1	3:C:659:TRP:HA	2.50	0.41
3:C:694:GLU:HG3	3:C:698:LYS:HE2	2.03	0.41
3:C:723:ILE:N	3:C:723:ILE:CD1	2.68	0.41
3:C:759:LEU:N	3:C:759:LEU:CD2	2.79	0.41
3:C:807:GLN:O	3:C:808:ILE:HG13	2.20	0.41
3:C:1319:PRO:O	3:C:1320:LEU:C	2.58	0.41
3:C:1345:TRP:HE1	3:C:1356:ARG:HH12	1.62	0.41
4:D:212:LYS:O	4:D:214:PRO:N	2.53	0.41
4:D:292:LYS:CD	4:D:292:LYS:H	2.34	0.41
4:D:349:TYR:CE1	4:D:381:PHE:CD1	3.09	0.41
4:D:428:ASP:O	4:D:430:HIS:N	2.53	0.41
1:E:68:LYS:HE3	1:E:72:LYS:CE	2.51	0.41
1:E:142:ILE:HG23	1:E:189:LEU:HD13	2.03	0.41
1:E:329:ARG:H	1:E:329:ARG:HG2	1.72	0.41
1:E:349:THR:O	1:E:353:ILE:HG23	2.20	0.41
2:F:276:ILE:HA	2:F:279:LEU:HD12	2.01	0.41
2:F:283:SER:O	2:F:447:PHE:CE2	2.74	0.41
2:F:445:ASN:C	2:F:448:PHE:H	2.24	0.41
3:G:540:MET:SD	3:G:562:ALA:HB1	2.61	0.41
3:G:563:LEU:HD22	3:G:563:LEU:HA	1.84	0.41
3:G:649:GLN:C	3:G:651:ILE:N	2.74	0.41
3:G:710:GLU:O	3:G:713:GLN:N	2.54	0.41
3:G:784:ARG:HH11	3:G:784:ARG:HG2	1.86	0.41
3:G:787:ARG:O	3:G:790:PHE:HB2	2.20	0.41
3:G:804:PRO:HG2	3:G:967:PHE:CD2	2.54	0.41
3:G:1050:LEU:CD1	3:G:1226:PRO:HG2	2.49	0.41
3:G:1192:ALA:C	3:G:1193:TYR:CD1	2.84	0.41
3:G:1294:ASN:ND2	3:G:1295:VAL:H	2.19	0.41
4:H:294:TYR:CD1	4:H:294:TYR:C	2.93	0.41
4:H:297:PHE:CD1	4:H:298:PRO:O	2.72	0.41
4:H:376:ILE:C	4:H:377:LEU:HD23	2.41	0.41
4:H:426:LEU:HD23	4:H:437:GLN:NE2	2.36	0.41
4:H:569:GLY:O	4:H:570:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LYS:HG2	1:A:148:GLU:N	2.36	0.41
1:A:330:ILE:HG21	1:A:388:LEU:HD11	2.02	0.41
2:B:200:VAL:HG11	2:B:209:VAL:HG13	2.03	0.41
2:B:327:TRP:O	2:B:328:LYS:C	2.59	0.41
2:B:441:LEU:HD11	2:B:446:GLN:HG2	2.02	0.41
3:C:457:TYR:N	3:C:457:TYR:HD1	2.19	0.41
3:C:523:PRO:C	3:C:525:LEU:H	2.22	0.41
3:C:532:VAL:HA	3:G:366:TRP:CD1	2.56	0.41
3:C:585:VAL:HB	3:C:621:PHE:CD2	2.56	0.41
3:C:681:GLU:OE1	3:C:681:GLU:N	2.54	0.41
3:C:800:ASN:ND2	3:C:800:ASN:O	2.54	0.41
3:C:929:MET:O	3:C:929:MET:CG	2.69	0.41
3:C:982:GLU:C	3:C:984:LEU:H	2.25	0.41
3:C:1099:ILE:O	3:C:1100:LEU:HD23	2.21	0.41
3:C:1160:TRP:HE3	3:C:1161:ILE:CG1	2.31	0.41
3:C:1230:ILE:CD1	3:C:1238:TRP:HH2	2.34	0.41
3:C:1235:ILE:O	3:C:1238:TRP:N	2.54	0.41
3:C:1244:THR:CG2	3:C:1247:ARG:NH2	2.77	0.41
3:C:1416:LYS:HE2	3:C:1420:GLN:HB2	2.02	0.41
3:C:1417:LEU:HD11	3:C:1421:PHE:HE2	1.85	0.41
1:E:174:VAL:CA	1:E:177:LEU:HG	2.49	0.41
1:E:208:ILE:HG23	1:E:212:ILE:HB	2.02	0.41
1:E:213:ARG:HH11	1:E:213:ARG:CG	2.33	0.41
2:F:49:ARG:HD3	2:F:102:SER:OG	2.21	0.41
2:F:75:GLU:HA	2:F:78:LEU:HB2	2.01	0.41
2:F:285:PRO:HB3	2:F:447:PHE:CE2	2.55	0.41
2:F:427:TYR:CD1	2:F:427:TYR:C	2.93	0.41
3:G:340:VAL:HG23	3:G:501:VAL:O	2.21	0.41
3:G:394:MET:SD	3:G:406:THR:C	2.99	0.41
3:G:394:MET:SD	3:G:406:THR:O	2.79	0.41
3:G:505:GLN:O	3:G:506:LEU:HD23	2.20	0.41
3:G:765:ALA:O	3:G:766:LEU:C	2.59	0.41
3:G:843:LEU:HD11	3:G:845:LEU:HG	2.02	0.41
3:G:1203:ASN:OD1	3:G:1203:ASN:N	2.50	0.41
3:G:1305:PRO:O	3:G:1306:SER:C	2.59	0.41
3:G:1340:LYS:HD3	3:G:1383:TYR:CG	2.56	0.41
3:G:1356:ARG:HG2	3:G:1356:ARG:NH1	2.36	0.41
3:G:1388:LEU:C	3:G:1390:THR:N	2.72	0.41
4:H:363:LEU:HD21	4:H:377:LEU:HD11	2.03	0.41
4:H:383:ASP:OD1	4:H:385:LYS:N	2.45	0.41
4:H:424:PRO:HG2	4:H:458:GLU:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:447:ARG:NH2	4:H:450:LYS:HB2	2.36	0.41
4:H:544:LEU:HD23	4:H:544:LEU:HA	1.81	0.41
1:A:144:ARG:NH2	1:A:144:ARG:HG2	2.35	0.41
1:A:324:HIS:HA	1:A:325:PRO:HD3	1.96	0.41
2:B:85:TYR:HB3	2:B:86:ARG:H	1.53	0.41
2:B:118:ARG:CZ	2:B:118:ARG:CB	2.98	0.41
2:B:125:MET:O	2:B:129:ARG:HG3	2.21	0.41
2:B:199:LYS:O	2:B:200:VAL:CG1	2.69	0.41
2:B:444:PRO:O	2:B:445:ASN:C	2.59	0.41
3:C:747:LYS:O	3:C:751:PHE:HD1	1.99	0.41
3:C:908:MET:HB2	3:C:913:ARG:CD	2.51	0.41
3:C:982:GLU:O	3:C:984:LEU:N	2.54	0.41
3:C:1094:PHE:CE1	3:C:1115:ARG:HG2	2.55	0.41
3:C:1227:ILE:CG2	3:C:1230:ILE:HG12	2.50	0.41
3:C:1388:LEU:C	3:C:1390:THR:N	2.73	0.41
4:D:381:PHE:CE2	4:D:440:PHE:CE2	3.07	0.41
4:D:383:ASP:HB3	4:D:386:HIS:HB2	2.02	0.41
4:D:517:ASP:OD1	4:D:517:ASP:N	2.54	0.41
4:D:546:TYR:H	4:D:546:TYR:HD1	1.59	0.41
1:E:202:VAL:CG2	1:E:299:GLN:HB2	2.50	0.41
1:E:251:ILE:O	1:E:251:ILE:HG22	2.20	0.41
1:E:324:HIS:HA	1:E:325:PRO:HD3	1.86	0.41
2:F:83:PHE:HD2	2:F:99:ASP:HB2	1.85	0.41
2:F:178:LEU:HD11	2:F:183:ILE:CD1	2.50	0.41
2:F:347:TYR:CD2	3:G:1238:TRP:HD1	2.39	0.41
3:G:421:ILE:HG23	3:G:425:TYR:CE2	2.55	0.41
3:G:715:ILE:HD12	3:G:755:ILE:CD1	2.51	0.41
3:G:922:ARG:HH22	3:G:950:LYS:NZ	2.18	0.41
3:G:958:GLY:O	3:G:962:PHE:HB2	2.21	0.41
3:G:1369:PRO:HG2	3:G:1379:LEU:HG	2.03	0.41
3:G:1415:ASP:O	3:G:1416:LYS:C	2.59	0.41
4:H:201:ALA:O	4:H:202:LEU:HB3	2.21	0.41
4:H:231:LEU:HB3	4:H:303:ILE:CD1	2.51	0.41
4:H:389:VAL:HA	4:H:394:LEU:CD1	2.51	0.41
4:H:513:PRO:HA	4:H:514:PRO:HD2	1.44	0.41
1:A:256:GLN:HE21	1:A:256:GLN:HB2	1.65	0.40
1:A:388:LEU:C	1:A:390:PRO:HD2	2.41	0.40
1:A:406:ARG:O	1:A:410:LEU:HB2	2.20	0.40
2:B:38:SER:O	2:B:41:GLU:N	2.53	0.40
2:B:87:GLU:HA	2:B:93:TYR:CD1	2.56	0.40
3:C:489:MET:O	3:C:490:ASN:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:553:HIS:HB3	4:D:307:ILE:HD12	1.94	0.40
3:C:720:ARG:HH12	3:C:722:VAL:CG1	2.34	0.40
3:C:1182:ASP:CG	3:C:1193:TYR:OH	2.60	0.40
3:C:1293:ASP:O	3:C:1294:ASN:HB2	2.21	0.40
3:C:1389:TYR:O	3:C:1389:TYR:HD2	2.02	0.40
4:D:355:ILE:O	4:D:355:ILE:HG22	2.21	0.40
4:D:426:LEU:HG	4:D:437:GLN:NE2	2.36	0.40
1:E:82:ALA:HB1	1:E:103:GLU:O	2.21	0.40
2:F:137:LYS:HZ1	2:F:181:GLU:HG2	1.87	0.40
2:F:258:THR:OG1	2:F:261:ASP:CA	2.68	0.40
2:F:295:LEU:O	2:F:295:LEU:CD1	2.66	0.40
2:F:295:LEU:HD11	2:F:330:GLU:CG	2.51	0.40
2:F:419:HIS:HB3	2:F:422:VAL:CG2	2.48	0.40
3:G:559:ALA:O	3:G:560:MET:HG2	2.22	0.40
3:G:659:TRP:O	3:G:661:LYS:N	2.55	0.40
3:G:907:GLU:HA	3:G:907:GLU:OE1	2.21	0.40
1:A:192:VAL:HG21	1:A:304:ARG:HG2	2.03	0.40
1:A:357:LEU:HD13	1:A:382:ASP:OD1	2.21	0.40
2:B:22:TYR:CB	2:B:23:PRO:CD	2.99	0.40
2:B:112:GLN:O	2:B:117:ARG:CZ	2.69	0.40
2:B:401:TYR:HD2	2:B:427:TYR:CE2	2.39	0.40
3:C:948:ALA:O	3:C:949:LEU:C	2.59	0.40
3:C:1184:SER:C	3:C:1186:LEU:N	2.72	0.40
4:D:302:VAL:HG21	4:D:304:MET:HG3	2.02	0.40
4:D:341:MET:HB2	4:D:575:TYR:CE1	2.56	0.40
4:D:357:TYR:O	4:D:358:ASP:C	2.58	0.40
4:D:381:PHE:CE2	4:D:440:PHE:HE2	2.36	0.40
1:E:57:TYR:HB3	1:E:88:PRO:O	2.21	0.40
1:E:196:GLN:OE1	1:E:196:GLN:N	2.52	0.40
2:F:184:TYR:OH	2:F:211:LEU:CD1	2.70	0.40
2:F:303:HIS:HA	2:F:306:ARG:CZ	2.50	0.40
3:G:637:HIS:O	3:G:639:ILE:HD13	2.21	0.40
3:G:752:ILE:O	3:G:752:ILE:CG2	2.65	0.40
3:G:859:LEU:HD22	3:G:1040:ILE:HA	2.02	0.40
3:G:864:LEU:N	3:G:866:PRO:HD2	2.36	0.40
3:G:1236:ALA:CB	3:G:1246:PHE:CE2	3.05	0.40
3:G:1340:LYS:O	3:G:1342:TYR:N	2.54	0.40
3:G:1376:LYS:HE2	3:G:1376:LYS:C	2.41	0.40
4:H:306:GLY:CA	4:H:317:THR:HG23	2.24	0.40
4:H:382:LEU:O	4:H:429:VAL:HG12	2.21	0.40
1:A:46:SER:C	1:A:47:PHE:HD1	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:209:HIS:CG	1:A:210:PRO:N	2.89	0.40
1:A:227:ALA:HA	1:A:231:GLN:HB2	2.04	0.40
1:A:275:VAL:O	1:A:279:TYR:N	2.54	0.40
2:B:167:VAL:HG23	2:B:178:LEU:HD13	2.03	0.40
3:C:549:ASN:N	3:C:554:GLN:O	2.54	0.40
3:C:614:THR:O	3:C:617:THR:N	2.50	0.40
3:C:710:GLU:O	3:C:712:VAL:N	2.54	0.40
3:C:1376:LYS:O	3:C:1376:LYS:CG	2.70	0.40
4:D:287:ASP:HB3	4:D:315:VAL:CG1	2.52	0.40
4:D:406:LEU:HD12	4:D:406:LEU:HA	1.90	0.40
2:F:314:LYS:HG3	2:F:353:PHE:HE2	1.85	0.40
2:F:327:TRP:O	2:F:328:LYS:C	2.59	0.40
2:F:367:CYS:C	2:F:369:LYS:N	2.70	0.40
3:G:960:LEU:HD23	3:G:960:LEU:HA	1.80	0.40
3:G:1000:TYR:HB3	3:G:1007:MET:HB2	2.03	0.40
3:G:1116:LEU:O	3:G:1117:ILE:C	2.60	0.40
3:G:1154:HIS:NE2	3:G:1155:VAL:CG2	2.81	0.40
4:H:156:THR:CG2	4:H:159:GLN:HB2	2.51	0.40
4:H:164:ARG:HG2	4:H:164:ARG:O	2.21	0.40
4:H:243:LEU:HD22	4:H:253:LEU:HB3	2.04	0.40
4:H:333:GLU:O	4:H:337:PHE:CE2	2.74	0.40
4:H:403:LYS:HE2	4:H:442:TYR:CD1	2.56	0.40
1:A:347:VAL:HA	1:A:348:PRO:HD2	1.90	0.40
1:A:393:LYS:HE3	1:A:393:LYS:O	2.21	0.40
2:B:40:ILE:H	2:B:40:ILE:HG13	1.65	0.40
2:B:229:ALA:O	2:B:233:THR:HG23	2.22	0.40
2:B:273:LEU:C	2:B:275:GLN:H	2.24	0.40
2:B:359:ARG:HG3	2:B:359:ARG:NH1	2.33	0.40
3:C:637:HIS:N	3:C:752:ILE:HD13	2.36	0.40
3:C:762:LEU:N	3:C:762:LEU:CD2	2.85	0.40
3:C:974:ALA:O	3:C:977:THR:OG1	2.33	0.40
3:C:1136:ASN:HA	3:C:1175:VAL:O	2.22	0.40
3:C:1220:VAL:O	3:C:1223:ILE:HB	2.22	0.40
4:D:227:LEU:HD11	4:D:231:LEU:CD1	2.50	0.40
4:D:430:HIS:CD2	4:D:440:PHE:HE1	2.40	0.40
4:D:450:LYS:HA	4:D:450:LYS:HZ2	1.85	0.40
1:E:57:TYR:HD2	1:E:57:TYR:H	1.68	0.40
1:E:66:LEU:O	1:E:70:MET:CB	2.69	0.40
1:E:184:GLY:O	1:E:187:GLU:HB2	2.21	0.40
1:E:242:LYS:HB2	1:E:242:LYS:HE3	1.88	0.40
1:E:302:PHE:CZ	1:E:303:PRO:O	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:343:ASP:OD1	1:E:346:THR:N	2.51	0.40
2:F:112:GLN:HB2	2:F:113:SER:H	1.74	0.40
2:F:116:LEU:HD23	2:F:116:LEU:HA	1.79	0.40
3:G:346:LEU:HB3	3:G:689:MET:HE2	2.03	0.40
3:G:389:PHE:HE1	3:G:455:VAL:HG21	1.87	0.40
3:G:489:MET:HE3	3:G:793:LEU:HB3	2.03	0.40
3:G:991:VAL:HA	3:G:994:MET:CE	2.52	0.40
3:G:1284:PRO:CG	3:G:1325:GLN:HE21	2.33	0.40
4:H:514:PRO:O	4:H:515:GLN:O	2.38	0.40
1:A:26:TYR:HE1	1:A:80:ILE:HD11	1.87	0.40
1:A:335:ASP:OD1	1:A:338:LYS:CG	2.69	0.40
2:B:240:VAL:O	2:B:242:SER:N	2.54	0.40
2:B:320:LEU:HD12	2:B:321:GLU:N	2.37	0.40
2:B:365:PHE:CD1	2:B:369:LYS:HE3	2.56	0.40
2:B:417:GLY:O	2:B:418:THR:CG2	2.66	0.40
2:B:421:GLN:HE22	2:B:442:ASN:HA	1.83	0.40
3:C:441:PHE:CZ	3:C:796:PHE:CZ	3.10	0.40
3:C:549:ASN:CB	3:C:554:GLN:HG3	2.51	0.40
3:C:664:ARG:HG3	3:C:688:ARG:CZ	2.49	0.40
3:C:724:PRO:CB	3:C:726:GLU:HG3	2.28	0.40
3:C:954:ASN:N	3:C:954:ASN:ND2	2.59	0.40
3:C:983:ILE:HG23	3:C:1033:TYR:OH	2.21	0.40
3:C:1208:THR:OG1	3:C:1209:GLN:N	2.54	0.40
3:C:1445:GLY:O	3:C:1447:SER:N	2.55	0.40
4:D:241:THR:OG1	4:D:251:VAL:HG12	2.22	0.40
4:D:375:CYS:HB2	4:D:420:LEU:HD22	2.03	0.40
4:D:423:VAL:HA	4:D:424:PRO:HD2	1.88	0.40
4:D:514:PRO:O	4:D:515:GLN:O	2.39	0.40
1:E:61:ASN:HB2	1:E:65:ASP:OD1	2.22	0.40
1:E:398:PHE:O	1:E:402:LEU:CD1	2.65	0.40
2:F:56:VAL:CG1	2:F:126:ASP:HB3	2.51	0.40
2:F:95:PRO:O	2:F:96:ARG:C	2.59	0.40
2:F:337:ASP:HB3	2:F:340:LYS:HB2	2.02	0.40
2:F:377:SER:OG	3:G:854:LYS:HE3	2.22	0.40
3:G:795:ALA:O	3:G:797:TYR:N	2.54	0.40
3:G:1024:LYS:HA	3:G:1024:LYS:HD3	1.77	0.40
3:G:1139:LEU:HD11	3:G:1175:VAL:HG23	2.04	0.40
3:G:1243:PRO:O	3:G:1244:THR:C	2.59	0.40
3:G:1350:GLU:HA	3:G:1351:PRO:HD3	1.85	0.40
4:H:166:ASN:O	4:H:167:ARG:C	2.60	0.40
4:H:226:GLU:O	4:H:229:SER:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:318:LYS:CE	4:H:320:TYR:CE2	2.94	0.40
4:H:328:TYR:HB2	4:H:468:ILE:HG13	2.03	0.40
4:H:363:LEU:HD21	4:H:377:LEU:CD1	2.51	0.40
4:H:538:LEU:CD1	4:H:540:ILE:HG13	2.52	0.40
4:H:542:SER:HA	4:H:561:ARG:NH2	2.36	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	383/420 (91%)	326 (85%)	45 (12%)	12 (3%)	4	32
1	E	383/420 (91%)	336 (88%)	36 (9%)	11 (3%)	4	33
2	B	432/509 (85%)	291 (67%)	93 (22%)	48 (11%)	0	6
2	F	432/509 (85%)	295 (68%)	84 (19%)	53 (12%)	0	5
3	C	1047/1128 (93%)	731 (70%)	226 (22%)	90 (9%)	1	10
3	G	1047/1128 (93%)	743 (71%)	209 (20%)	95 (9%)	1	9
4	D	442/597 (74%)	325 (74%)	79 (18%)	38 (9%)	1	10
4	H	442/597 (74%)	330 (75%)	73 (16%)	39 (9%)	1	9
All	All	4608/5308 (87%)	3377 (73%)	845 (18%)	386 (8%)	1	10

All (386) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	37	LYS
2	B	29	TYR
2	B	35	GLU
2	B	90	GLU
2	B	94	GLU

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Mol	Chain	Res	Type
2	B	112	GLN
2	B	147	SER
2	B	179	GLY
2	B	254	SER
2	B	260	GLN
2	B	267	ASN
2	B	312	PHE
2	B	354	GLY
2	B	363	THR
2	B	370	ILE
3	C	551	LYS
3	C	589	PRO
3	C	608	LYS
3	C	642	PHE
3	C	646	VAL
3	C	747	LYS
3	C	899	PRO
3	C	1143	PRO
3	C	1149	LYS
3	C	1150	LYS
3	C	1186	LEU
3	C	1243	PRO
3	C	1244	THR
3	C	1250	HIS
3	C	1254	ASP
3	C	1445	GLY
3	C	1446	TYR
4	D	157	PRO
4	D	198	CYS
4	D	201	ALA
4	D	209	MET
4	D	412	GLY
4	D	444	ASP
4	D	457	SER
4	D	577	ARG
1	E	37	LYS
2	F	35	GLU
2	F	90	GLU
2	F	94	GLU
2	F	112	GLN
2	F	147	SER
2	F	179	GLY

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Mol	Chain	Res	Type
2	F	254	SER
2	F	260	GLN
2	F	267	ASN
2	F	312	PHE
2	F	354	GLY
2	F	363	THR
3	G	551	LYS
3	G	589	PRO
3	G	608	LYS
3	G	642	PHE
3	G	646	VAL
3	G	747	LYS
3	G	760	ASN
3	G	776	MET
3	G	899	PRO
3	G	1143	PRO
3	G	1149	LYS
3	G	1150	LYS
3	G	1222	ARG
3	G	1243	PRO
3	G	1244	THR
3	G	1250	HIS
3	G	1254	ASP
3	G	1445	GLY
3	G	1446	TYR
4	H	157	PRO
4	H	198	CYS
4	H	201	ALA
4	H	209	MET
4	H	412	GLY
4	H	444	ASP
4	H	457	SER
1	A	223	PHE
1	A	411	LEU
2	B	23	PRO
2	B	84	SER
2	B	85	TYR
2	B	137	LYS
2	B	149	LEU
2	B	171	PRO
2	B	352	SER
2	B	355	LYS

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Mol	Chain	Res	Type
2	B	356	GLU
2	B	359	ARG
2	B	386	PHE
3	C	559	ALA
3	C	606	ASN
3	C	660	SER
3	C	746	TRP
3	C	760	ASN
3	C	776	MET
3	C	795	ALA
3	C	958	GLY
3	C	969	ALA
3	C	1003	THR
3	C	1011	ASN
3	C	1094	PHE
3	C	1096	ILE
3	C	1119	ILE
3	C	1132	GLN
3	C	1148	ASP
3	C	1161	ILE
3	C	1210	TYR
3	C	1219	VAL
3	C	1222	ARG
3	C	1306	SER
3	C	1345	TRP
3	C	1409	THR
4	D	167	ARG
4	D	200	GLU
4	D	280	SER
4	D	364	ILE
4	D	401	ILE
4	D	408	THR
4	D	429	VAL
4	D	475	ASP
4	D	515	GLN
4	D	541	PRO
4	D	545	ARG
4	D	547	PHE
4	D	586	ARG
1	E	52	ASP
1	E	57	TYR
1	E	196	GLN

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Mol	Chain	Res	Type
1	E	233	ILE
1	E	249	GLU
2	F	23	PRO
2	F	29	TYR
2	F	84	SER
2	F	85	TYR
2	F	137	LYS
2	F	149	LEU
2	F	171	PRO
2	F	352	SER
2	F	355	LYS
2	F	356	GLU
2	F	359	ARG
2	F	370	ILE
2	F	386	PHE
3	G	403	GLU
3	G	488	LEU
3	G	559	ALA
3	G	606	ASN
3	G	660	SER
3	G	746	TRP
3	G	766	LEU
3	G	795	ALA
3	G	864	LEU
3	G	958	GLY
3	G	969	ALA
3	G	1003	THR
3	G	1011	ASN
3	G	1026	LYS
3	G	1094	PHE
3	G	1096	ILE
3	G	1119	ILE
3	G	1132	GLN
3	G	1148	ASP
3	G	1161	ILE
3	G	1186	LEU
3	G	1210	TYR
3	G	1306	SER
3	G	1345	TRP
3	G	1409	THR
4	H	167	ARG
4	H	200	GLU

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Mol	Chain	Res	Type
4	H	257	ILE
4	H	364	ILE
4	H	401	ILE
4	H	408	THR
4	H	429	VAL
4	H	475	ASP
4	H	545	ARG
4	H	547	PHE
4	H	577	ARG
4	H	586	ARG
1	A	52	ASP
1	A	146	LEU
1	A	249	GLU
1	A	299	GLN
2	B	72	SER
2	B	173	LEU
2	B	255	HIS
2	B	263	SER
2	B	311	LEU
2	B	360	THR
2	B	442	ASN
3	C	403	GLU
3	C	479	THR
3	C	488	LEU
3	C	496	PRO
3	C	497	CYS
3	C	553	HIS
3	C	623	LEU
3	C	766	LEU
3	C	864	LEU
3	C	1002	ASP
3	C	1026	LYS
3	C	1027	SER
3	C	1036	LEU
3	C	1090	ASP
3	C	1114	LYS
3	C	1162	ASN
3	C	1185	ASN
3	C	1232	ALA
3	C	1444	SER
4	D	257	ILE
4	D	494	ARG

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Mol	Chain	Res	Type
4	D	496	SER
4	D	546	TYR
4	D	585	GLU
2	F	72	SER
2	F	173	LEU
2	F	255	HIS
2	F	263	SER
2	F	311	LEU
2	F	360	THR
2	F	442	ASN
3	G	479	THR
3	G	496	PRO
3	G	497	CYS
3	G	553	HIS
3	G	623	LEU
3	G	648	LEU
3	G	873	ASN
3	G	1027	SER
3	G	1036	LEU
3	G	1114	LYS
3	G	1162	ASN
3	G	1185	ASN
3	G	1219	VAL
3	G	1232	ALA
3	G	1444	SER
4	H	280	SER
4	H	494	ARG
4	H	515	GLN
4	H	541	PRO
4	H	546	TYR
4	H	581	ALA
4	H	585	GLU
1	A	57	TYR
1	A	252	HIS
2	B	31	GLN
2	B	102	SER
2	B	120	PHE
2	B	287	CYS
2	B	353	PHE
2	B	418	THR
2	B	439	PHE
3	C	462	PRO

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Mol	Chain	Res	Type
3	C	513	TRP
3	C	648	LEU
3	C	791	LEU
3	C	873	ASN
3	C	945	ARG
3	C	953	ALA
3	C	978	TYR
3	C	1256	GLU
3	C	1438	GLU
4	D	202	LEU
4	D	313	LYS
4	D	581	ALA
1	E	245	ALA
1	E	411	LEU
2	F	31	GLN
2	F	102	SER
2	F	287	CYS
2	F	326	PHE
2	F	439	PHE
3	G	462	PRO
3	G	728	ILE
3	G	791	LEU
3	G	945	ARG
3	G	953	ALA
3	G	1002	ASP
3	G	1090	ASP
3	G	1220	VAL
3	G	1256	GLU
3	G	1438	GLU
4	H	202	LEU
4	H	220	LEU
4	H	313	LYS
4	H	496	SER
4	H	518	MET
4	H	579	PRO
2	B	121	ILE
2	B	210	PRO
2	B	326	PHE
2	B	391	PRO
3	C	369	SER
3	C	622	PHE
3	C	743	GLU

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Mol	Chain	Res	Type
3	C	949	LEU
3	C	1115	ARG
3	C	1147	PRO
3	C	1163	SER
3	C	1220	VAL
3	C	1242	ASP
3	C	1340	LYS
3	C	1389	TYR
3	C	1450	ASN
4	D	206	TYR
4	D	219	VAL
4	D	220	LEU
4	D	226	GLU
4	D	579	PRO
1	E	67	GLU
2	F	120	PHE
2	F	181	GLU
2	F	210	PRO
2	F	261	ASP
2	F	391	PRO
3	G	513	TRP
3	G	536	PRO
3	G	622	PHE
3	G	711	LEU
3	G	743	GLU
3	G	978	TYR
3	G	1103	GLN
3	G	1115	ARG
3	G	1163	SER
3	G	1221	ALA
3	G	1242	ASP
3	G	1328	ASN
3	G	1340	LYS
3	G	1436	THR
4	H	206	TYR
4	H	226	GLU
1	A	253	ASP
1	A	275	VAL
2	B	101	ILE
3	C	728	ILE
3	C	763	PRO
3	C	902	PRO

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Mol	Chain	Res	Type
3	C	1436	THR
4	D	433	PRO
4	D	518	MET
1	E	34	GLY
2	F	49	ARG
2	F	353	PHE
2	F	369	LYS
3	G	763	PRO
3	G	949	LEU
3	G	983	ILE
3	G	1147	PRO
3	G	1389	TYR
3	G	1450	ASN
4	H	219	VAL
4	H	267	ASN
4	H	433	PRO
1	A	408	GLY
3	C	936	PRO
4	D	532	PRO
2	F	385	PRO
3	G	936	PRO
3	G	1006	ILE
3	G	1284	PRO
4	H	532	PRO
2	B	240	VAL
2	B	385	PRO
3	C	536	PRO
4	D	179	GLY
1	E	194	GLY
2	F	101	ILE
2	F	411	ILE
3	G	902	PRO
2	B	364	PRO
2	B	444	PRO
3	C	849	VAL
3	C	971	PRO
3	C	1006	ILE
2	F	121	ILE
2	F	240	VAL
2	F	364	PRO
2	F	444	PRO
3	G	971	PRO

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Mol	Chain	Res	Type
4	H	179	GLY
2	F	375	PRO
3	G	849	VAL

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	363/393 (92%)	322 (89%)	41 (11%)	6	30
1	E	363/393 (92%)	324 (89%)	39 (11%)	6	32
2	B	394/459 (86%)	326 (83%)	68 (17%)	2	12
2	F	394/459 (86%)	329 (84%)	65 (16%)	2	15
3	C	962/1013 (95%)	785 (82%)	177 (18%)	1	10
3	G	962/1013 (95%)	780 (81%)	182 (19%)	1	9
4	D	390/526 (74%)	314 (80%)	76 (20%)	1	9
4	H	390/526 (74%)	312 (80%)	78 (20%)	1	8
All	All	4218/4782 (88%)	3492 (83%)	726 (17%)	2	13

All (726) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	50	LYS
1	A	51	ASP
1	A	63	GLN
1	A	67	GLU
1	A	76	TYR
1	A	89	ASN
1	A	91	HIS
1	A	92	ASN
1	A	96	LEU
1	A	105	GLU
1	A	115	TYR
1	A	117	ASP

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Mol	Chain	Res	Type
1	A	147	LYS
1	A	149	ASP
1	A	154	HIS
1	A	167	CYS
1	A	171	ASP
1	A	173	SER
1	A	179	SER
1	A	192	VAL
1	A	210	PRO
1	A	215	SER
1	A	221	LYS
1	A	222	TYR
1	A	232	ASP
1	A	240	TRP
1	A	253	ASP
1	A	256	GLN
1	A	257	GLN
1	A	260	GLN
1	A	270	GLU
1	A	271	HIS
1	A	280	GLN
1	A	291	TRP
1	A	300	TYR
1	A	338	LYS
1	A	342	PHE
1	A	345	PHE
1	A	354	CYS
1	A	355	ARG
1	A	393	LYS
2	B	25	CYS
2	B	27	GLN
2	B	37	ILE
2	B	43	GLU
2	B	62	SER
2	B	78	LEU
2	B	85	TYR
2	B	86	ARG
2	B	89	LEU
2	B	99	ASP
2	B	105	ILE
2	B	118	ARG
2	B	121	ILE

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Mol	Chain	Res	Type
2	B	126	ASP
2	B	132	PHE
2	B	134	ILE
2	B	142	ASP
2	B	146	ASP
2	B	154	ILE
2	B	159	LYS
2	B	173	LEU
2	B	184	TYR
2	B	186	ILE
2	B	190	ASP
2	B	192	LEU
2	B	209	VAL
2	B	211	LEU
2	B	214	ILE
2	B	217	ILE
2	B	227	SER
2	B	235	ARG
2	B	241	GLN
2	B	243	ASP
2	B	247	GLN
2	B	249	LEU
2	B	256	SER
2	B	257	TYR
2	B	258	THR
2	B	260	GLN
2	B	262	TYR
2	B	264	THR
2	B	268	VAL
2	B	282	LYS
2	B	284	PHE
2	B	298	ASN
2	B	320	LEU
2	B	324	LEU
2	B	355	LYS
2	B	360	THR
2	B	361	ASP
2	B	362	TYR
2	B	364	PRO
2	B	368	LEU
2	B	382	HIS
2	B	387	ARG

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Mol	Chain	Res	Type
2	B	390	ASP
2	B	391	PRO
2	B	392	GLU
2	B	399	GLN
2	B	418	THR
2	B	427	TYR
2	B	429	GLU
2	B	440	SER
2	B	444	PRO
2	B	447	PHE
2	B	450	GLU
2	B	454	ILE
2	B	455	LEU
3	C	341	PHE
3	C	343	PHE
3	C	354	ASN
3	C	362	PHE
3	C	369	SER
3	C	375	SER
3	C	387	LEU
3	C	398	LEU
3	C	410	MET
3	C	423	THR
3	C	428	MET
3	C	430	PHE
3	C	446	VAL
3	C	457	TYR
3	C	476	VAL
3	C	479	THR
3	C	494	LYS
3	C	496	PRO
3	C	503	SER
3	C	506	LEU
3	C	507	LEU
3	C	519	MET
3	C	553	HIS
3	C	555	ASN
3	C	563	LEU
3	C	568	PHE
3	C	579	PHE
3	C	580	GLN
3	C	582	HIS

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Mol	Chain	Res	Type
3	C	584	CYS
3	C	585	VAL
3	C	586	VAL
3	C	593	ILE
3	C	606	ASN
3	C	610	GLU
3	C	619	LEU
3	C	632	ASP
3	C	635	VAL
3	C	642	PHE
3	C	647	LEU
3	C	648	LEU
3	C	654	CYS
3	C	662	ILE
3	C	667	ARG
3	C	681	GLU
3	C	682	ARG
3	C	683	ASN
3	C	701	ILE
3	C	702	ARG
3	C	703	CYS
3	C	718	THR
3	C	719	GLU
3	C	723	ILE
3	C	726	GLU
3	C	730	ASN
3	C	732	TYR
3	C	740	TYR
3	C	741	LEU
3	C	751	PHE
3	C	756	MET
3	C	759	LEU
3	C	762	LEU
3	C	764	LEU
3	C	775	ILE
3	C	780	LEU
3	C	784	ARG
3	C	785	SER
3	C	797	TYR
3	C	800	ASN
3	C	806	LYS
3	C	807	GLN

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Mol	Chain	Res	Type
3	C	808	ILE
3	C	843	LEU
3	C	861	PHE
3	C	863	SER
3	C	864	LEU
3	C	865	TYR
3	C	901	LEU
3	C	903	ASP
3	C	905	SER
3	C	915	ILE
3	C	918	LEU
3	C	935	ASN
3	C	937	ASP
3	C	939	ILE
3	C	946	GLN
3	C	954	ASN
3	C	959	CYS
3	C	972	LEU
3	C	975	LEU
3	C	977	THR
3	C	984	LEU
3	C	1005	SER
3	C	1014	ASN
3	C	1027	SER
3	C	1035	LEU
3	C	1036	LEU
3	C	1038	ILE
3	C	1041	ASP
3	C	1048	LEU
3	C	1050	LEU
3	C	1065	ASP
3	C	1068	TYR
3	C	1073	GLU
3	C	1077	LEU
3	C	1078	ASP
3	C	1083	ASP
3	C	1085	CYS
3	C	1086	ASP
3	C	1090	ASP
3	C	1095	VAL
3	C	1096	ILE
3	C	1101	SER

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Mol	Chain	Res	Type
3	C	1105	ARG
3	C	1106	ASP
3	C	1130	VAL
3	C	1139	LEU
3	C	1157	VAL
3	C	1176	SER
3	C	1185	ASN
3	C	1198	LEU
3	C	1199	GLN
3	C	1206	ILE
3	C	1222	ARG
3	C	1231	ASP
3	C	1242	ASP
3	C	1247	ARG
3	C	1249	HIS
3	C	1251	TYR
3	C	1252	HIS
3	C	1257	ASN
3	C	1266	GLN
3	C	1268	THR
3	C	1271	GLU
3	C	1278	ARG
3	C	1288	THR
3	C	1290	ASN
3	C	1291	ILE
3	C	1302	ASP
3	C	1309	ARG
3	C	1310	CYS
3	C	1311	SER
3	C	1316	LYS
3	C	1318	SER
3	C	1320	LEU
3	C	1327	SER
3	C	1328	ASN
3	C	1332	MET
3	C	1345	TRP
3	C	1354	ARG
3	C	1362	LEU
3	C	1364	PHE
3	C	1369	PRO
3	C	1372	PRO
3	C	1374	CYS

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Mol	Chain	Res	Type
3	C	1381	PRO
3	C	1384	SER
3	C	1389	TYR
3	C	1393	CYS
3	C	1397	TYR
3	C	1398	ILE
3	C	1403	CYS
3	C	1406	GLU
3	C	1408	LEU
3	C	1410	THR
3	C	1411	ASP
3	C	1415	ASP
3	C	1416	LYS
3	C	1419	LYS
3	C	1420	GLN
3	C	1422	PHE
3	C	1423	THR
3	C	1424	PRO
3	C	1434	LYS
3	C	1440	PHE
3	C	1441	LEU
3	C	1446	TYR
4	D	157	PRO
4	D	158	SER
4	D	164	ARG
4	D	166	ASN
4	D	178	GLN
4	D	185	ARG
4	D	193	LEU
4	D	198	CYS
4	D	202	LEU
4	D	206	TYR
4	D	210	PHE
4	D	212	LYS
4	D	224	ILE
4	D	227	LEU
4	D	236	LYS
4	D	251	VAL
4	D	254	LEU
4	D	256	GLN
4	D	261	SER
4	D	266	ASN

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Mol	Chain	Res	Type
4	D	271	ILE
4	D	279	SER
4	D	290	GLU
4	D	292	LYS
4	D	302	VAL
4	D	305	GLU
4	D	307	ILE
4	D	312	ARG
4	D	315	VAL
4	D	319	LEU
4	D	329	GLN
4	D	333	GLU
4	D	341	MET
4	D	342	VAL
4	D	344	VAL
4	D	346	CYS
4	D	348	PRO
4	D	351	THR
4	D	373	ASP
4	D	390	GLU
4	D	400	ASP
4	D	411	GLU
4	D	414	ARG
4	D	421	VAL
4	D	435	TYR
4	D	440	PHE
4	D	444	ASP
4	D	447	ARG
4	D	450	LYS
4	D	454	GLN
4	D	456	VAL
4	D	476	LEU
4	D	477	LEU
4	D	480	LEU
4	D	491	THR
4	D	492	SER
4	D	496	SER
4	D	498	ILE
4	D	510	PRO
4	D	511	LEU
4	D	513	PRO
4	D	518	MET

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Mol	Chain	Res	Type
4	D	526	TYR
4	D	527	VAL
4	D	538	LEU
4	D	540	ILE
4	D	541	PRO
4	D	542	SER
4	D	546	TYR
4	D	552	LEU
4	D	561	ARG
4	D	571	PHE
4	D	574	LEU
4	D	575	TYR
4	D	582	ASP
4	D	586	ARG
1	E	2	GLU
1	E	5	ASP
1	E	38	ASN
1	E	39	TYR
1	E	41	GLN
1	E	50	LYS
1	E	51	ASP
1	E	55	ILE
1	E	57	TYR
1	E	65	ASP
1	E	89	ASN
1	E	94	VAL
1	E	105	GLU
1	E	108	PHE
1	E	110	ILE
1	E	122	CYS
1	E	167	CYS
1	E	186	VAL
1	E	191	LEU
1	E	196	GLN
1	E	203	HIS
1	E	221	LYS
1	E	222	TYR
1	E	238	GLU
1	E	249	GLU
1	E	253	ASP
1	E	256	GLN
1	E	270	GLU

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Mol	Chain	Res	Type
1	E	280	GLN
1	E	283	ILE
1	E	291	TRP
1	E	313	ILE
1	E	354	CYS
1	E	355	ARG
1	E	379	ARG
1	E	393	LYS
1	E	399	LEU
1	E	402	LEU
1	E	412	LYS
2	F	26	LEU
2	F	27	GLN
2	F	33	PRO
2	F	37	ILE
2	F	57	GLU
2	F	76	SER
2	F	78	LEU
2	F	84	SER
2	F	85	TYR
2	F	86	ARG
2	F	91	ASP
2	F	98	ARG
2	F	99	ASP
2	F	111	CYS
2	F	113	SER
2	F	118	ARG
2	F	122	GLN
2	F	124	GLU
2	F	126	ASP
2	F	132	PHE
2	F	138	ASP
2	F	142	ASP
2	F	151	PHE
2	F	154	ILE
2	F	155	SER
2	F	159	LYS
2	F	172	SER
2	F	181	GLU
2	F	184	TYR
2	F	190	ASP
2	F	214	ILE

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Mol	Chain	Res	Type
2	F	217	ILE
2	F	221	GLU
2	F	235	ARG
2	F	241	GLN
2	F	247	GLN
2	F	257	TYR
2	F	262	TYR
2	F	264	THR
2	F	268	VAL
2	F	274	ASP
2	F	279	LEU
2	F	280	SER
2	F	283	SER
2	F	301	LEU
2	F	319	THR
2	F	325	GLN
2	F	329	GLN
2	F	355	LYS
2	F	360	THR
2	F	362	TYR
2	F	364	PRO
2	F	368	LEU
2	F	382	HIS
2	F	384	CYS
2	F	390	ASP
2	F	403	ILE
2	F	404	SER
2	F	405	PRO
2	F	412	LEU
2	F	413	ASP
2	F	427	TYR
2	F	444	PRO
2	F	450	GLU
2	F	454	ILE
3	G	339	GLN
3	G	341	PHE
3	G	368	GLU
3	G	372	THR
3	G	374	VAL
3	G	375	SER
3	G	402	LYS
3	G	410	MET

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Mol	Chain	Res	Type
3	G	411	LYS
3	G	428	MET
3	G	430	PHE
3	G	468	LEU
3	G	473	PHE
3	G	486	LEU
3	G	492	LYS
3	G	494	LYS
3	G	496	PRO
3	G	500	GLU
3	G	507	LEU
3	G	510	PRO
3	G	523	PRO
3	G	543	SER
3	G	548	GLN
3	G	555	ASN
3	G	558	ILE
3	G	563	LEU
3	G	568	PHE
3	G	579	PHE
3	G	583	PHE
3	G	584	CYS
3	G	586	VAL
3	G	591	ASP
3	G	594	PHE
3	G	603	GLU
3	G	606	ASN
3	G	610	GLU
3	G	616	ARG
3	G	619	LEU
3	G	635	VAL
3	G	642	PHE
3	G	650	ARG
3	G	653	VAL
3	G	662	ILE
3	G	668	SER
3	G	669	ASN
3	G	681	GLU
3	G	682	ARG
3	G	683	ASN
3	G	685	THR
3	G	701	ILE

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Mol	Chain	Res	Type
3	G	703	CYS
3	G	704	LYS
3	G	718	THR
3	G	723	ILE
3	G	732	TYR
3	G	738	LEU
3	G	745	THR
3	G	754	GLN
3	G	760	ASN
3	G	762	LEU
3	G	764	LEU
3	G	770	ASN
3	G	776	MET
3	G	779	THR
3	G	780	LEU
3	G	784	ARG
3	G	786	GLU
3	G	791	LEU
3	G	800	ASN
3	G	806	LYS
3	G	843	LEU
3	G	853	ASP
3	G	857	LEU
3	G	861	PHE
3	G	864	LEU
3	G	865	TYR
3	G	868	ILE
3	G	875	CYS
3	G	903	ASP
3	G	918	LEU
3	G	932	GLN
3	G	935	ASN
3	G	937	ASP
3	G	938	LEU
3	G	939	ILE
3	G	941	GLN
3	G	943	ASP
3	G	946	GLN
3	G	951	LEU
3	G	952	THR
3	G	956	MET
3	G	959	CYS

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Mol	Chain	Res	Type
3	G	975	LEU
3	G	984	LEU
3	G	1010	THR
3	G	1014	ASN
3	G	1024	LYS
3	G	1036	LEU
3	G	1039	ASP
3	G	1041	ASP
3	G	1049	LEU
3	G	1050	LEU
3	G	1055	TYR
3	G	1060	VAL
3	G	1068	TYR
3	G	1077	LEU
3	G	1078	ASP
3	G	1083	ASP
3	G	1084	TRP
3	G	1085	CYS
3	G	1087	LEU
3	G	1093	ASN
3	G	1096	ILE
3	G	1099	ILE
3	G	1102	ASP
3	G	1105	ARG
3	G	1106	ASP
3	G	1118	GLU
3	G	1130	VAL
3	G	1139	LEU
3	G	1144	GLN
3	G	1181	GLN
3	G	1182	ASP
3	G	1185	ASN
3	G	1186	LEU
3	G	1187	THR
3	G	1189	SER
3	G	1198	LEU
3	G	1199	GLN
3	G	1202	ASP
3	G	1203	ASN
3	G	1206	ILE
3	G	1214	GLN
3	G	1219	VAL

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Mol	Chain	Res	Type
3	G	1228	ASP
3	G	1242	ASP
3	G	1244	THR
3	G	1251	TYR
3	G	1257	ASN
3	G	1258	ASP
3	G	1266	GLN
3	G	1268	THR
3	G	1282	PRO
3	G	1286	CYS
3	G	1290	ASN
3	G	1297	ASP
3	G	1309	ARG
3	G	1313	ILE
3	G	1316	LYS
3	G	1318	SER
3	G	1326	LEU
3	G	1327	SER
3	G	1330	LEU
3	G	1331	ILE
3	G	1332	MET
3	G	1340	LYS
3	G	1347	ILE
3	G	1354	ARG
3	G	1355	ASN
3	G	1357	THR
3	G	1358	ARG
3	G	1360	LEU
3	G	1364	PHE
3	G	1366	ARG
3	G	1367	THR
3	G	1372	PRO
3	G	1374	CYS
3	G	1376	LYS
3	G	1379	LEU
3	G	1386	LYS
3	G	1397	TYR
3	G	1398	ILE
3	G	1409	THR
3	G	1410	THR
3	G	1411	ASP
3	G	1419	LYS

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Mol	Chain	Res	Type
3	G	1422	PHE
3	G	1427	LEU
3	G	1431	ARG
3	G	1441	LEU
3	G	1443	ARG
3	G	1446	TYR
4	H	157	PRO
4	H	158	SER
4	H	164	ARG
4	H	166	ASN
4	H	171	VAL
4	H	173	SER
4	H	174	PHE
4	H	178	GLN
4	H	185	ARG
4	H	193	LEU
4	H	198	CYS
4	H	202	LEU
4	H	203	THR
4	H	206	TYR
4	H	209	MET
4	H	210	PHE
4	H	230	GLU
4	H	244	LEU
4	H	249	GLU
4	H	253	LEU
4	H	259	CYS
4	H	261	SER
4	H	266	ASN
4	H	268	LYS
4	H	271	ILE
4	H	279	SER
4	H	283	GLN
4	H	286	VAL
4	H	290	GLU
4	H	292	LYS
4	H	294	TYR
4	H	304	MET
4	H	310	THR
4	H	319	LEU
4	H	341	MET
4	H	342	VAL

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Mol	Chain	Res	Type
4	H	351	THR
4	H	355	ILE
4	H	367	ILE
4	H	369	HIS
4	H	373	ASP
4	H	376	ILE
4	H	378	PHE
4	H	382	LEU
4	H	387	GLU
4	H	403	LYS
4	H	419	HIS
4	H	423	VAL
4	H	429	VAL
4	H	435	TYR
4	H	440	PHE
4	H	441	SER
4	H	447	ARG
4	H	456	VAL
4	H	458	GLU
4	H	461	SER
4	H	472	THR
4	H	474	THR
4	H	475	ASP
4	H	477	LEU
4	H	496	SER
4	H	511	LEU
4	H	515	GLN
4	H	518	MET
4	H	522	TYR
4	H	527	VAL
4	H	531	LEU
4	H	538	LEU
4	H	540	ILE
4	H	546	TYR
4	H	549	LYS
4	H	562	LEU
4	H	570	THR
4	H	571	PHE
4	H	576	LEU
4	H	582	ASP
4	H	586	ARG
4	H	591	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (180) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	GLN
1	A	74	ASN
1	A	89	ASN
1	A	90	GLN
1	A	154	HIS
1	A	236	ASN
1	A	257	GLN
1	A	260	GLN
1	A	267	GLN
1	A	324	HIS
1	A	337	GLN
1	A	401	ASN
2	B	24	HIS
2	B	27	GLN
2	B	31	GLN
2	B	71	GLN
2	B	112	GLN
2	B	122	GLN
2	B	141	GLN
2	B	150	GLN
2	B	164	GLN
2	B	252	HIS
2	B	255	HIS
2	B	260	GLN
2	B	290	GLN
2	B	298	ASN
2	B	329	GLN
2	B	374	ASN
2	B	378	GLN
2	B	399	GLN
2	B	425	GLN
2	B	443	HIS
2	B	445	ASN
2	B	452	GLN
3	C	354	ASN
3	C	382	ASN
3	C	475	HIS
3	C	555	ASN
3	C	566	HIS
3	C	606	ASN
3	C	627	HIS

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Mol	Chain	Res	Type
3	C	649	GLN
3	C	652	ASN
3	C	669	ASN
3	C	683	ASN
3	C	714	GLN
3	C	729	GLN
3	C	730	ASN
3	C	744	HIS
3	C	760	ASN
3	C	770	ASN
3	C	800	ASN
3	C	862	ASN
3	C	870	GLN
3	C	927	GLN
3	C	931	GLN
3	C	932	GLN
3	C	935	ASN
3	C	941	GLN
3	C	946	GLN
3	C	954	ASN
3	C	1011	ASN
3	C	1014	ASN
3	C	1023	ASN
3	C	1098	GLN
3	C	1111	ASN
3	C	1122	ASN
3	C	1154	HIS
3	C	1181	GLN
3	C	1190	GLN
3	C	1197	GLN
3	C	1201	GLN
3	C	1214	GLN
3	C	1250	HIS
3	C	1257	ASN
3	C	1266	GLN
3	C	1290	ASN
3	C	1294	ASN
3	C	1312	ASN
3	C	1328	ASN
3	C	1359	HIS
3	C	1380	GLN
3	C	1435	ASN

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Mol	Chain	Res	Type
4	D	166	ASN
4	D	178	GLN
4	D	248	GLN
4	D	256	GLN
4	D	283	GLN
4	D	339	GLN
4	D	386	HIS
4	D	388	GLN
4	D	419	HIS
4	D	437	GLN
4	D	452	GLN
4	D	515	GLN
4	D	587	GLN
4	D	594	GLN
1	E	25	GLN
1	E	38	ASN
1	E	41	GLN
1	E	42	HIS
1	E	58	GLN
1	E	86	HIS
1	E	89	ASN
1	E	217	ASN
1	E	236	ASN
1	E	260	GLN
1	E	267	GLN
1	E	280	GLN
1	E	337	GLN
1	E	341	GLN
1	E	401	ASN
2	F	27	GLN
2	F	31	GLN
2	F	58	ASN
2	F	71	GLN
2	F	112	GLN
2	F	123	GLN
2	F	150	GLN
2	F	164	GLN
2	F	241	GLN
2	F	247	GLN
2	F	252	HIS
2	F	255	HIS
2	F	260	GLN

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Mol	Chain	Res	Type
2	F	267	ASN
2	F	275	GLN
2	F	298	ASN
2	F	329	GLN
2	F	374	ASN
2	F	399	GLN
2	F	421	GLN
2	F	443	HIS
2	F	445	ASN
3	G	354	ASN
3	G	373	HIS
3	G	490	ASN
3	G	548	GLN
3	G	552	ASN
3	G	554	GLN
3	G	555	ASN
3	G	566	HIS
3	G	637	HIS
3	G	652	ASN
3	G	669	ASN
3	G	683	ASN
3	G	730	ASN
3	G	770	ASN
3	G	788	ASN
3	G	800	ASN
3	G	862	ASN
3	G	870	GLN
3	G	873	ASN
3	G	931	GLN
3	G	932	GLN
3	G	935	ASN
3	G	946	GLN
3	G	1011	ASN
3	G	1014	ASN
3	G	1181	GLN
3	G	1199	GLN
3	G	1214	GLN
3	G	1250	HIS
3	G	1257	ASN
3	G	1266	GLN
3	G	1359	HIS
3	G	1420	GLN

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Mol	Chain	Res	Type
3	G	1435	ASN
4	H	166	ASN
4	H	178	GLN
4	H	248	GLN
4	H	283	GLN
4	H	339	GLN
4	H	368	ASN
4	H	386	HIS
4	H	437	GLN
4	H	465	ASN
4	H	515	GLN
4	H	530	GLN
4	H	587	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 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	$\# Z > 2$
6	SF4	F	601	2	0,12,12	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	SF4	B	601	2	0,12,12	-	-	-		

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
6	SF4	F	601	2	-	-	0/6/5/5
6	SF4	B	601	2	-	-	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	601	SF4	3	0

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 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	389/420 (92%)	-0.09	12 (3%) 49 33	39, 101, 121, 137	0
1	E	389/420 (92%)	-0.40	1 (0%) 94 88	45, 98, 115, 136	0
2	B	434/509 (85%)	-0.72	1 (0%) 95 91	5, 61, 112, 135	0
2	F	434/509 (85%)	-0.66	0 100 100	4, 64, 115, 135	0
3	C	1057/1128 (93%)	-0.75	0 100 100	1, 51, 93, 123	0
3	G	1057/1128 (93%)	-0.73	0 100 100	2, 54, 96, 116	0
4	D	444/597 (74%)	-0.70	0 100 100	1, 44, 94, 111	0
4	H	444/597 (74%)	-0.68	1 (0%) 95 91	2, 47, 94, 121	0
All	All	4648/5308 (87%)	-0.64	15 (0%) 94 88	1, 60, 109, 137	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	125	ALA	3.6
1	A	360	ILE	2.9
1	A	272	LEU	2.9
1	A	215	SER	2.7
1	A	245	ALA	2.7
1	A	335	ASP	2.7
1	A	246	LEU	2.6
1	A	10	PRO	2.5
1	A	325	PRO	2.5
1	A	380	THR	2.4
1	E	404	LYS	2.4
4	H	155	ALA	2.4
1	A	250	THR	2.3
2	B	172	SER	2.1
1	A	52	ASP	2.1

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	ZN	A	501	1/1	0.91	0.04	123,123,123,123	0
5	ZN	E	501	1/1	0.94	0.10	91,91,91,91	0
5	ZN	G	1501	1/1	0.95	0.16	78,78,78,78	0
5	ZN	C	1502	1/1	0.97	0.15	26,26,26,26	0
6	SF4	F	601	8/8	0.97	0.18	1,1,8,18	0
6	SF4	B	601	8/8	0.98	0.18	1,1,2,9	0
5	ZN	C	1501	1/1	0.99	0.14	46,46,46,46	0
5	ZN	G	1502	1/1	0.99	0.12	1,1,1,1	0

6.5 Other polymers [i](#)

There are no such residues in this entry.