



## wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 02:02 PM BST

PDB ID : 4BED  
EMDB ID: : EMD-1569  
Title : Keyhole limpet hemocyanin (KLH): 9A cryoEM structure and molecular model of the KLH1 didecamer reveal the interfaces and intricate topology of the 160 functional units  
Authors : Gatsogiannis, C.; Markl, J.  
Deposited on : 2013-03-08  
Resolution : 9.00 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.  
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

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MolProbity : 4.02b-467  
Mogul : 1.7.1 (RC1), CSD as537be (2016)  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk27241

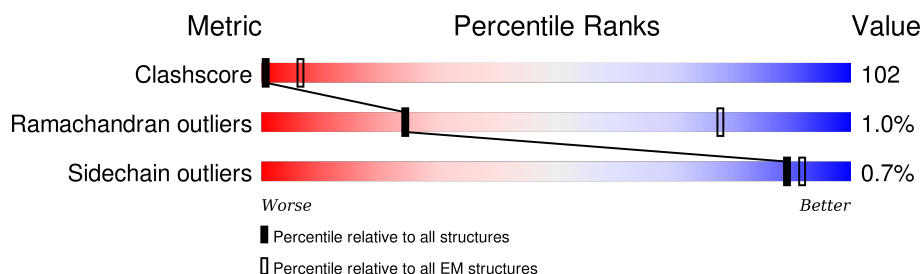
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 9.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. 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  $\leq 5\%$ .

Mol	Chain	Length	Quality of chain	
1	A	1664	28%	72%
1	C	1664	27%	72%
2	B	1734	28%	69%
2	D	1734	28%	69%

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
3	CUO	B	9008	-	-	X	-
3	CUO	D	9008	-	-	X	-

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 55292 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called HEMOCYANIN KLH1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1664	Total	C	N	O	S	0	0
			13530	8611	2347	2515	57		
1	C	1664	Total	C	N	O	S	0	0
			13530	8611	2347	2515	57		

There are 62 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	129	ASP	GLY	CONFLICT	UNP Q53IP9
A	139	VAL	ALA	CONFLICT	UNP Q53IP9
A	162	ALA	PRO	CONFLICT	UNP Q53IP9
A	178	ALA	PRO	CONFLICT	UNP Q53IP9
A	259	ASN	-	INSERTION	UNP Q53IP9
A	260	GLU	-	INSERTION	UNP Q53IP9
A	261	HIS	-	INSERTION	UNP Q53IP9
A	262	SER	-	INSERTION	UNP Q53IP9
A	263	THR	-	INSERTION	UNP Q53IP9
A	264	PRO	-	INSERTION	UNP Q53IP9
A	265	ALA	-	INSERTION	UNP Q53IP9
A	266	ASP	-	INSERTION	UNP Q53IP9
A	267	LEU	-	INSERTION	UNP Q53IP9
A	268	PHE	-	INSERTION	UNP Q53IP9
A	269	ASP	-	INSERTION	UNP Q53IP9
A	270	TYR	-	INSERTION	UNP Q53IP9
A	271	CYS	-	INSERTION	UNP Q53IP9
A	272	GLU	-	INSERTION	UNP Q53IP9
A	273	LEU	-	INSERTION	UNP Q53IP9
A	274	HIS	-	INSERTION	UNP Q53IP9
A	275	TYR	ASN	CONFLICT	UNP Q53IP9
A	.	-	TYR	DELETION	UNP Q53IP9
A	.	-	TRP	DELETION	UNP Q53IP9
A	.	-	GLY	DELETION	UNP Q53IP9
A	.	-	LEU	DELETION	UNP Q53IP9
A	.	-	PRO	DELETION	UNP Q53IP9

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Chain	Residue	Modelled	Actual	Comment	Reference
A	.	-	GLY	DELETION	UNP Q53IP9
A	.	-	LYS	DELETION	UNP Q53IP9
A	.	-	LEU	DELETION	UNP Q53IP9
A	.	-	ASN	DELETION	UNP Q53IP9
A	.	-	ARG	DELETION	UNP Q53IP9
C	129	ASP	GLY	CONFLICT	UNP Q53IP9
C	139	VAL	ALA	CONFLICT	UNP Q53IP9
C	162	ALA	PRO	CONFLICT	UNP Q53IP9
C	178	ALA	PRO	CONFLICT	UNP Q53IP9
C	259	ASN	-	INSERTION	UNP Q53IP9
C	260	GLU	-	INSERTION	UNP Q53IP9
C	261	HIS	-	INSERTION	UNP Q53IP9
C	262	SER	-	INSERTION	UNP Q53IP9
C	263	THR	-	INSERTION	UNP Q53IP9
C	264	PRO	-	INSERTION	UNP Q53IP9
C	265	ALA	-	INSERTION	UNP Q53IP9
C	266	ASP	-	INSERTION	UNP Q53IP9
C	267	LEU	-	INSERTION	UNP Q53IP9
C	268	PHE	-	INSERTION	UNP Q53IP9
C	269	ASP	-	INSERTION	UNP Q53IP9
C	270	TYR	-	INSERTION	UNP Q53IP9
C	271	CYS	-	INSERTION	UNP Q53IP9
C	272	GLU	-	INSERTION	UNP Q53IP9
C	273	LEU	-	INSERTION	UNP Q53IP9
C	274	HIS	-	INSERTION	UNP Q53IP9
C	275	TYR	ASN	CONFLICT	UNP Q53IP9
C	.	-	TYR	DELETION	UNP Q53IP9
C	.	-	TRP	DELETION	UNP Q53IP9
C	.	-	GLY	DELETION	UNP Q53IP9
C	.	-	LEU	DELETION	UNP Q53IP9
C	.	-	PRO	DELETION	UNP Q53IP9
C	.	-	GLY	DELETION	UNP Q53IP9
C	.	-	LYS	DELETION	UNP Q53IP9
C	.	-	LEU	DELETION	UNP Q53IP9
C	.	-	ASN	DELETION	UNP Q53IP9
C	.	-	ARG	DELETION	UNP Q53IP9

- Molecule 2 is a protein called HEMOCYANIN KLH1.

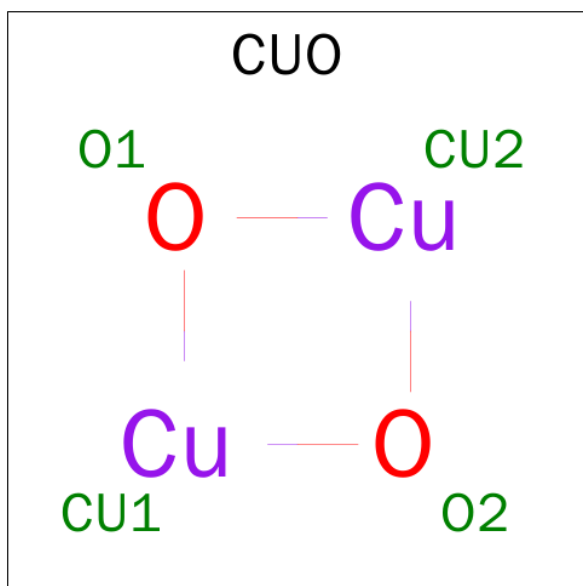
Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1734	Total	C	N	O	S	0	0
			14084	8985	2438	2594	67		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	D	1734	Total	C	N	O	S	0	0
			14084	8985	2438	2594	67		

- Molecule 3 is CU2-O2 CLUSTER (three-letter code: CUO) (formula: Cu<sub>2</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			AltConf
3	A	1	Total	Cu	O	0
			16	8	8	
3	A	1	Total	Cu	O	0
			16	8	8	
3	A	1	Total	Cu	O	0
			16	8	8	
3	A	1	Total	Cu	O	0
			16	8	8	
3	B	1	Total	Cu	O	0
			16	8	8	
3	B	1	Total	Cu	O	0
			16	8	8	
3	B	1	Total	Cu	O	0
			16	8	8	
3	B	1	Total	Cu	O	0
			16	8	8	
3	C	1	Total	Cu	O	0
			16	8	8	
3	C	1	Total	Cu	O	0
			16	8	8	

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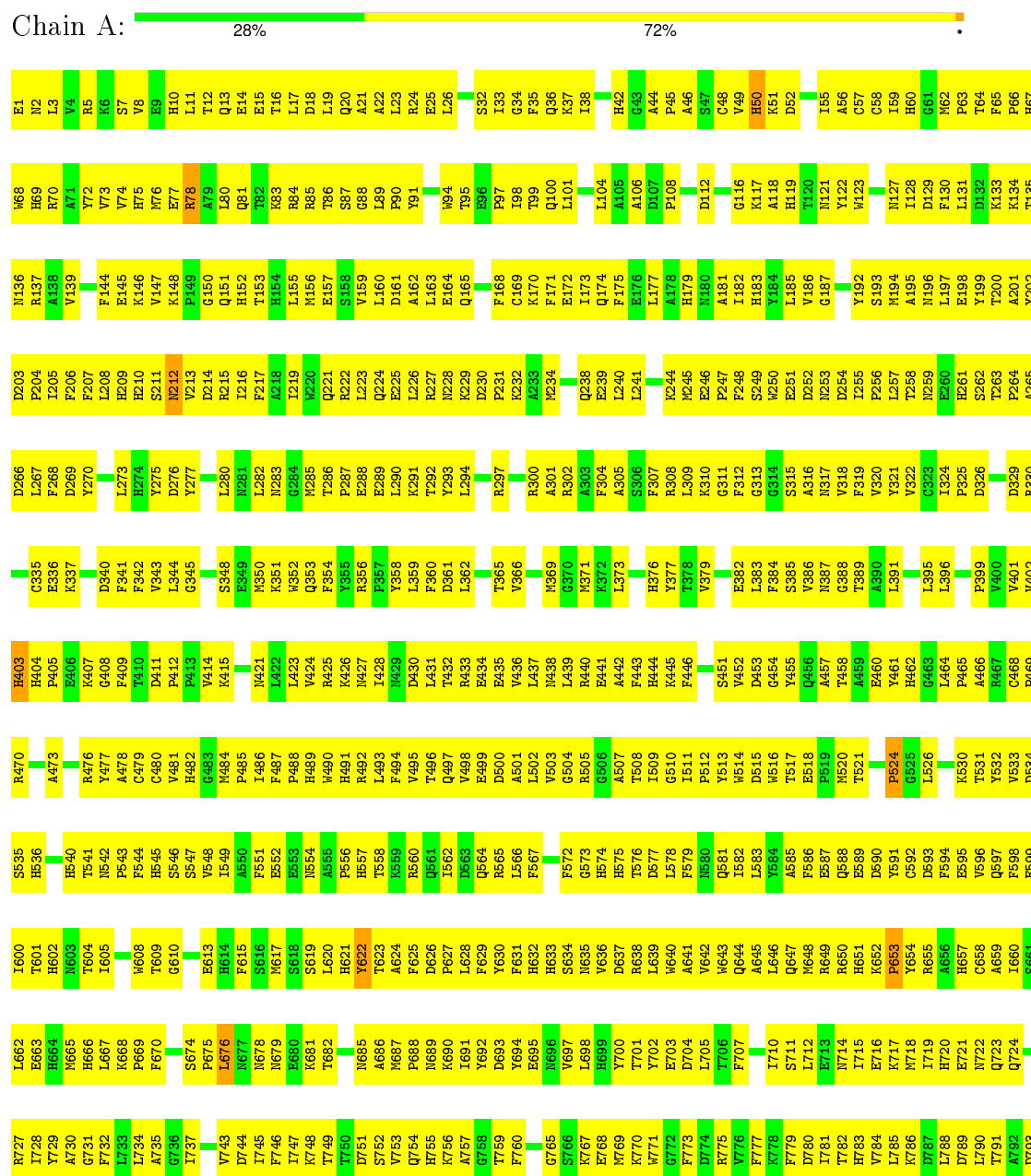
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Mol	Chain	Residues	Atoms			AltConf
3	C	1	Total 16	Cu 8	O 8	0
3	C	1	Total 16	Cu 8	O 8	0
3	D	1	Total 16	Cu 8	O 8	0
3	D	1	Total 16	Cu 8	O 8	0
3	D	1	Total 16	Cu 8	O 8	0
3	D	1	Total 16	Cu 8	O 8	0

### 3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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: HEMOCYANIN KLH1



H1661	L1589	S1518	L1453	F1374	T1306	H1243	D1479	Y1116	T1055	A992	A924	K864	G794
T1662	G1590	F1519	H1464	L1379	S1307	E1244	E1182	L1119	W1056	A993	L925	S865	D795
E1663	G1591	H1465	H1466	T1380	C1308	G1245	M1183	E1120	Q1057	Q994	P926	S866	F796
	E1594	Y1521	T1457	L1381	V1310	E1246	F1121	F1121	A1058	Y995	Y927	K867	E797
	M1595	Y1522	T1458	H1382	G1312	Y1248	W1185	N1122	L1059	L996	D928	F869	T799
	D1596	H1524	D1459	E1382	G1312	Q1249	A1186	G1123	K1061	L997	H930	K870	W800
	M1525	M1525	H1460	N1388	H1313	A1250	Y1187	L1124	T1062	A998	T931	K871	W800
	L1526	L1526	T1461	L1392	F1314	E1251	D1188	S1125	R1063	L999	T931	L872	D801
	L1527	L1527	W1462	D1392	T1315	V1252	H1189	S1127	K1065	E1000	S932	L872	L802
	L1528	L1528	A1463	L1393	F1316	Y1253	V1190	T1126	A1066	Q1001	P933	G873	T803
	M1529	H1529	L1464	L1394	H1318	S1254	F1191	Q1128	P1066	A874	L934	A874	E804
	Y1531	Y1531	Q1466	H1396	W1319	R1257	Y1193	N1130	N1068	D1006	H936	H876	W805
	S1532	S1532	D1467	S1397	H1320	L1258	D1194	K1131	V1069	F1007	L937	G877	D806
	L1533	L1533	L1468	L1398	H1321	L1259	F1195	K1132	E1008	E1008	T808	E878	T808
	Q1534	Q1534	Q1469	Y1399	L1322	N1260	L1196	L1133	Q1010	T1009	R809	K880	L810
	Q1535	Q1535	R1470	F1400	Y1323	N1261	Q1197	Q1139	Y1011	Y1011	H943	W881	A811
	L1536	L1536	F1471	Y1401	V1324	T1262	K1198	A1135	E1079	Y1017	H944	C882	
			R1472	E1402	V1325	E1263	L1199	T1136	L1081	H1018	K945	S883	L814
			K1473	Q1403	V1326	N1264	H1200	K1137	S1076	A1014	T946	S884	L815
			L1474	L1405	V1327	L1265	D1201	S1138	R1077	H1015		P885	P816
			P1475	L1405	E1328	L1265	L1202	Q1139	R1078	N1016	D951	E886	H817
			Y1476	Y1406	N1329	G1268	K1203	D1140	E1079	Y1017	G952	A887	A818
			R1477	A1407	A1330	E1269	L1204	R1141	P1080	Y1018	V953	S888	S819
			E1478	L1408	L1331	L1270	H1205	F1142	L1081	H1019	E954	K889	W820
				E1409	L1332	S1272	A1207	A1144	Q1082	A1020	K955	K890	L821
			Q1484	F1413	K1333	S1272	E1207	G1145	P1083	L1021	H956	R891	R822
			L1485	F1414	K1334	L1273	F1210	F1146	F1084	V1022	P957	A892	E823
			M1486	D1415	V1338	R1274	F1211	L1147	G1085	K893	K959	C894	R826
			H1487	D1415	A1339	A1275	T1212	L1148	L1086	P960	P959	V895	W827
			P1489	F1416	A1340	A1276	T1212	S1149	S1087	D961	D961	H896	K828
			Q1491	Q1419	P1341	L1278	Y1214	G1150	A1088	Y1028	G962	G897	F829
			F1492	E1421	L1342	E1279	F1215	F1151	N1090	G1029	H963	M898	D830
			F1493	E1422	W1343	L1280	V1216	K1152	N1091	Y1030	Y1030	S899	K831
			D1494	L1423	W1344	E1281	F1217	S1154	T1092	A1031	D965	W900	K836
			K1495	L1424	W1345	N1282	D1218	S1154	D1093	S1032	T966	P901	L837
				N1425	T1349	D1283	L1219	L1156	H1094	L1033	P967	P902	L837
			N1498	L1427	E1350	G1284	K1220	L1157	T1095	R1034	P968	H903	T838
			D1500	L1427	H1351	T1285		K1158	T1096	Y1035	K969	W904	R839
			E1501	L1430	L1352	Y1286	G1225	F1159	K1097	T1036	T970	H905	K840
			A1502	L1431	P1353	E1287	K1226	N1160	E1098	A1037	T971	R906	W841
			H1503	K1436	P1357	S1288	D1227	L1161	H1099	F1038	T972	L907	W842
			T1503	K1436	T1357	L1289		C1162	S1100	D1039	R973	L908	D843
			T1505	Y1437	T1357	A1290	L1228	T1163	V1101	P1040	S974	T909	R844
			H1506	Y1442	Y1361	K1293	Q1231	D1164	F1042	Y1043	Y977	Q911	L845
			A1507	D1443	M1362	H1294	P1232	C1168	N1104	L1044		S912	E848
			T1508	Y1444	M1363	S1295	S1233	H1169	F1106	H1045	P980	E913	F849
			P1509	Y1445	S1364	P1296	V1234	P1170	D1107	H1046	E981	A915	H850
			H1510	A1446	R1365		I1235	A1171	Y1108	Q882	E981	L916	E852
			D1511	F1447	Q1366	C1299	H1236	G1172	K1109	N1048	P983	R917	L853
			G1512	F1447	H1367	Q1300	E1237	E1173	T1110	T1049	E984	R918	R854
			F1513	D1448	H1368	L1301	N1238	F1174	T1111	D1050	F985	H919	
			E1514	P1449	H1368	N1302	N1239	Y1175	F1112	R1051		G920	L857
			Y1515	V1450	T1371	G1303	L1240	L1176	N1113	I1052	T989	Y921	L857
			N1517	F1452	N1372	N1304	G1241	L1177	F1114	W1053	S990	D922	L860
					P1373	P1305	H1242	G1178	E1115	A1054	Y991	G923	K861

● Molecule 1: HEMOCYANIN KLH1

Chain C: 27% 72%

E1	L1589	S1518	L1453	F1374	T1306	H1243	D1479	Y1116	T1055	A992	A924	K864	G794
N2	G1590	F1519	H1464	L1379	S1307	E1244	E1182	L1119	W1056	A993	L925	S865	D795
L3	G1591	H1465	H1466	T1380	C1308	G1245	M1183	E1120	Q1057	Q994	P926	S866	F796
V4	E1594	Y1521	T1457	L1381	V1310	E1246	F1121	F1121	A1058	Y995	Y927	K867	E797
R5	Y1522	T1458	H1382	E1382	G1312	Y1248	W1185	N1122	L1059	L996	D928	F869	T799
K6	Y1523	T1458	H1382	E1382	G1312	Y1248	W1185	N1122	L1059	L996	D928	F869	T799
S7	D1596	H1524	D1459	E1382	G1312	Q1249	A1186	G1123	K1061	L997	H930	K870	W800
V8	M1525	M1525	H1460	N1388	H1313	A1250	Y1187	L1124	T1062	A998	T931	K871	W800
E9	L1526	L1526	T1461	L1392	F1314	E1251	D1188	S1125	R1063	L999	T931	L872	D801
H10	L1527	L1527	W1462	D1392	T1315	V1252	H1189	S1127	K1065	E1000	S932	L872	L802
L11	L1528	L1528	A1463	L1393	F1316	Y1253	V1190	T1126	A1066	Q1001	P933	G873	T803
T12	M1529	H1529	L1464	L1394	H1318	S1254	F1191	Q1128	P1066	A874	L934	A874	E804
Q13	Y1602	H1602	Y1465	L1394	H1318	S1254	F1191	Q1128	P1066	A874	L934	A874	E804
E14	Y1603	Y1603	Q1466	H1396	W1319	R1257	Y1193	N1130	N1068	D1006	H936	H876	D806
E15	S1632	S1632	D1467	S1397	H1320	L1258	D1194	K1131	V1069	F1007	L937	G877	D807
T16	L1604	L1604	L1468	L1398	H1321	L1259	F1195	K1132	E1008	E1008	T808	E878	T808
L17	D1606	Q1534	Q1469	Y1399	L1322	N1260	L1196	L1133	Q1010	T1009	R809	K880	L810
D18	L1607	Q1535	R1470	F1400	Y1323	N1261	Q1197	Q1139	Y1011	Y1011	H943	W881	A811
L19	T1608	L1636	F1471	Y1401	V1324	T1262	K1198	A1135	E1079	Y1017	H944	C882	
Q20			R1472	E1402	V1325	E1263	L1199	T1136	L1081	H1018	K945	S883	L814
A21	M1539	M1539	K1473	Q1403	V1326	N1264	H1200	K1137	S1076	A1014	T946	S884	L815
A22	L1610	L1610	L1474	L1405	V1327	L1265	D1201	S1138	R1077	H1015		P885	P816
L23	L1611	L1611	P1475	L1405	E1328	L1265	L1202	Q1139	R1078	N1016	D951	E886	H817
R24	N1614	E1542	Y1476	Y1406	N1329	G1268	K1203	D1140	E1079	Y1017	G952	A887	A818
E25	G1615	R1543	R1477	A1407	A1330	E1269	L1204	R1141	P1080	Y1018	V953	S888	S819
L26	Y1616	K1544	E1478	L1408	L1331	L1270	H1205	F1142	L1081	H1019	E954	K889	W820
	H1617	R1545		E1409	L1332	S1272	A1207	A1144	Q1082	A1020	K955	K890	L821
	L1618	H1546	Q1484	F1413	K1333	S1272	E1207	G1145	P1083	L1021	H956	R891	R822
S32	D1621	R1547	L1485	F1414	K1334	L1273	F1210	F1146	F1084	V1022	P957	A892	E823
G34	Y1622	D1548	M1486	D1415	V1338	R1274	F1211	L1147	G1085	K893	K959	C894	R826
F35	F1622	Y1549	H1487	D1415	A1339	A1275	T1212	L1148	L1086	P960	P959	V895	W827
Q36	D1623	F1550	P1489	F1416	A1340	A1276	T1212	S1149	S1087	D961	D961	H896	K828
K37	L1624	A1551	P1489	Q1419	P1341	L1278	Y1214	G1150	A1088	Y1028	G962	G897	F829
I38	E1625	F1552	Q1491	L1420	L1342	E1279	F1215	F1151	N1090	G1029	H963	M898	D830
	G1627	L1554	P1492	E1421	W1343	L1280	V1216	K1152	N1091	Y1030	Y1030	S899	K831
H42	I1628	L1555	F1493	L1422	D1344	E1281	F1217	S1154	T1092	A1031	D965	W900	K836
A44		H1556	D1494	L1423	W1345	N1282	D1218	S1154	D1093	S1032	T966	P901	L837
P45	N1632	M1557	K1495	L1424	T1349	D1283	L1219	L1156	H1094	L1033	P967	P902	L837
A46				N1425	E1350	G1284	K1220	L1157	T1095	R1034	P968	H903	T838
S47	L1636	T1560	N1498	L1427	H1351	T1285		K1158	T1096	Y1035	K969	W904	R839
C48	D1637	S1561	D1500	L1427	L1352	Y1286	G1225	F1159	K1097	T1036	T970	H905	K840
V49	S1638	F1566	E1501	L1430	L1352	E1287	K1226	N1160	E1098	A1037	T971	R906	W841
H50	H1639	F1567	A1502	L1431	P1353	S1288	D1227	L1161	H1099	F1038	T972	L907	W842
K51	V1640	V1568	H1503	K1436	T1357	L1289		C1162	S1100	D1039	R973	L908	D843
D52	I1641	C15											
I55	A56	C57	C58	C59	C60	C61	C62	C63	C64	C65	C66	C67	C68
A56	C57	C58	C59	C60	C61	C62	C63	C64	C65	C66	C67	C68	C69
C57	C58	C59	C60	C61	C62	C63	C64	C65	C66	C67	C68	C69	C70
C58	C59	C60	C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71
C59	C60	C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72
C60	C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72	C73
C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72	C73	C74
C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72	C73	C74	C75
C63	C64	C65	C66	C67	C68	C69	C70	C71	C72	C73	C74	C75	C76
C64	C65	C66	C67	C68	C69	C70	C71	C72	C73	C74	C75	C76	C77
C65	C66	C67	C68	C69	C70	C71	C72	C73	C74	C75	C76	C77	C78
C66	C67	C68	C69	C70	C71	C72	C73	C74	C75	C76	C77	C78	C79
C67	C68	C69	C70	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80
C68	C69	C70	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81
C69	C70	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82
C70	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83
C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84
C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85
C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86
C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87
C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88
C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89
C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90
C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91
C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92
C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C93
C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C93	C94
C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95
C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96
C84	C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96	C97
C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96	C97	C98
C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96	C97	C98	C99
C87	C88	C89	C90	C91	C92	C93	C94	C95	C96	C97	C98	C99	C100
C88	C89	C90	C91	C92	C93	C94	C95	C96	C97	C98	C99	C100	C101
C89	C90	C91	C92	C93	C94	C95	C96	C97	C98	C99	C100	C101	C102
C90	C91	C92	C93	C94	C95	C96	C97	C98	C99	C100	C101	C102	C103
C91	C92	C93	C94	C95	C96	C97	C98	C99	C100	C101	C102	C103	C104
C92	C93	C94	C95	C96	C97	C98	C99	C100	C101	C102	C103	C104	C105
C93	C94	C95	C96	C97	C98	C99	C100	C101	C102	C103	C104	C105	C106
C94	C95	C96	C97	C98	C99	C100	C101	C102	C103	C104	C105	C106	C107
C95	C96	C97	C98	C99	C100	C101	C102	C103	C104	C105	C106	C107	C108
C96	C97	C98	C99	C100	C101	C102	C103	C104	C105	C106	C107	C108	C109
C97	C98	C99	C100	C101	C102	C103	C104	C105	C106	C107	C108	C109	C110
C98	C99	C100	C101	C102	C103	C104	C105	C106	C107	C108	C109	C110	C111
C99	C100	C101	C102	C103	C104	C105	C106	C107	C108	C109	C110	C111	C112
C100	C101	C102	C103	C104	C105	C106	C107	C108	C109	C110	C111	C112	C113
C101	C102	C103	C104	C105	C106	C107	C108	C109	C110	C111	C112	C113	C114
C102	C103	C104	C105	C106	C107	C108	C109	C110	C111	C112	C113	C114	C115
C103	C104	C105	C106	C107	C108	C109	C110	C111	C112	C113	C114	C115	C116
C104	C105	C106	C107	C108	C109	C110	C111	C112	C113	C114	C115	C116	C117
C105	C106	C107	C108	C109	C110	C111	C112	C113	C114	C115	C116	C117	C118
C106	C107	C108	C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119
C107	C108	C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120
C108	C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120	C121
C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120	C121	C122
C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120	C121	C122	C123
C111	C112	C113	C114	C115	C116	C117	C118	C119	C120	C121	C122	C123	C124
C112	C113	C114	C115	C116	C117	C118	C119	C120	C121	C122	C123	C124	C125
C113	C114	C115	C116	C117	C118	C119	C120	C121	C122	C123	C124	C125	C126
C114	C115	C116	C117	C118	C119	C120	C121	C122	C123	C124	C125	C126	C127
C115	C116	C117	C118	C119	C120	C121	C122	C123	C124	C125	C126	C127	C128
C116	C117	C118	C119	C120	C121	C122	C123	C124	C125	C126	C127	C128	C129
C117	C118	C119	C120	C121	C122	C123	C124	C125	C126	C127	C128	C129	C130
C118	C119	C120	C121	C122	C123	C12							



Y1114	H1053	S990	H919	L857	D789	Q724	L662	I600	S535	R470	V402	D266	D203	M136	H68
E1115	A1054	I991	G920	L857	L790	Q724	E663	T601	H536	A473	H403	L267	P204	R137	H69
Y1116	I1055	A992	Y921	L860	T791	R727	E664	H602	H560	A473	H404	F268	I205	A138	R70
L1119	H1056	K993	Q923	L861	D793	I728	H665	H603	T541	R476	H405	D269	F206	V139	A71
E1120	A1058	I994	G924	K861	D794	Q729	H666	H604	H542	Y477	H406	Y270	F207	F144	V72
F1121	I1059	L996	L925	K864	D795	Q731	H668	I605	H543	A478	G408	L273	L208	E145	V73
M1122	Q1060	A998	F926	S865	F796	G732	H669	H608	H544	C479	D411	L274	H209	E146	V74
G1123	I1062	L999	W928	A866	F797	L733	H670	G610	H545	C480	D412	Y275	H210	V147	H75
L1124	Y1062	L999	W928	A867	F798	L734	H671	G611	H546	H482	P413	D276	S211	K148	E77
S1125	R1063	E1000	D929	F869	T799	A735	H672	G612	S547	H483	P414	Y277	N212	P149	R78
I1126	K1064	G1001	W930	Q870	V800	G736	S673	E613	V548	G483	P415	Y277	Y213	G150	A79
T1127	K1065	D1002	T931	Q871	D801	I737	S674	H614	H549	H484	K415	L280	D214	Q151	L80
Q1128	P1066		S932	L872	I802		H675	F615	A550	P485		N281	R215	H152	Q81
L1129	Y1067	D1006	F933	G873	T803	V743	L676	S616	F551	L486	N421	L282	I216	T153	T82
M1130	M1068	A1007	E934	A874	E804	D744	H677	S617	H552	L487	L422	N283	F217	H154	K83
V1069	V1069	E1008	L934	F875	D805	I745	H678	S618	E553	P488	L423	K351	I219	L155	R84
K1132	K1131	I1009	L940	H876	D806	F746	H679	S619	H554	H489	V424	K352	W220	M156	R85
L1133	A1070			G877	G807	I747	H680	L620	A555	H490	R425	Q353	Q221	E157	T86
E1134	A1073	Y1011	H943	E878	R808	K748	K681	H621	H556	H491	K426	F354	R222	S158	S87
A1135	Y1074	E1012	E944	R879	T809	T749	T682	Y622	H557	R492	N427	T355	L223	V159	G88
T1136	T1075	I1013	K945	K880	L810	T750	H685	T623	H558	L493	I428	R356	Q224	L160	L89
K1137	S1076	A1014	Y946	W881	A811	T751		A624	H559	F494	N429	P357	E225	D161	P90
L1138	M1077	H1015		C882		S752	H686	F625	R560	V495	D430	K358	L226	A162	
Q1139	K1078	M1016	D951	P883	L814	F753	H687	D626	H561	T496	L431	L359	R227	L163	
E1140	E1079	Y1017	G952	S884	I815	Q754	P888	P627	H562	Q497	T432	F360	K228	E164	
P1080	P1080	I1018	V953	P885	R816	H755	H689	L628	H563	V498	R433	L362	K229	Q165	
L1141	L1081	H1019	E954	E886	H817	K756	K690	F629	H564	F499	R434	L362	D230	Q165	
F1142	Q1082	A1020	K955	A818	H818	G757	H691	Y630	R565	D500	E435	R231	K232	F168	
A1144	P1083	H1021	H956	S888	S819	F758	H692	F631	H566	A501	V436	K233	K233	C169	
G1145	F1084	V1022	H957	K889	W820	D760	H693	H632	F567	L502	L437	R297	K234	K170	
F1146	G1085	G1023	P958	K890	I821	F760	H694	H633	F572	V503	N438	R300	N234	Q100	
L1086	L1086	Q1026	W959	F891	R822	A761	E695	S634	H573	G504	N439	A301		L101	
S1087	S1087	P1027	F960	A892	E823	L762	H696	N635	H574	R505	R440	A303	Q238	E172	
L1148	A1088	G1028	D961	C893		G763	H697	V636	H575	G506	R441	A304	Q239	I173	
G1150	H1089	Y1028	Q962	C894	R826	G764	H698	D637	H576	A507	A442	A305	L240	F175	
F1151	I1090	G1029	H963	H827	W827	G765	H699	R638	H577	T508	F443	S306	L241	E176	
K1152	M1091	M1030	I964	H828	K828	S766	H700	L639	D577	T509	H444	F307		L177	
K1153	T1092	A1031	P965	G897	F829	K767	T701	W640	L578	G510	K445	R308	K244	A178	
S1154	D1093	S1032	T966	M898	D830	E768	T702	A641	H579	P512	F446	L309	N245	H179	
L1156	H1094	R1034	V967	S899	K831	K769	E703	V642	H580	P513		K310	E246	N180	
V1095	V1095	L1035	D968	V900	R836	K770	L705	H643	H581	W614	S451	G311	P247	A181	
T1096	T1096	Y1035	K969	F901	R836	W771	T706	Q644	L582	D514	V452	F312	P248	I182	
K1097	K1097	T1037	T970	P902	L837	G772	T706	A645	H583	D515	G454	G313	S249	H183	
F1158	E1098	A1037	T971	H903	S838	F773	F707	L646	H584	W516		G314	W250	Y184	
M1160	H1099	F1038	T972	W904	R839	D774	A585	Q647	A585	T517	Y455	S315	E251	L185	
T1161	S1100	D1039	R973	H905	R840	R775	F586	H648	F586	E518	Q456	A316	D252	V186	
C1162	V1101	P1040	S974	R906	N841	V776	S711	H649	E587	P519	A457	N317	N253	G187	
T1163	P1102	L1041	Y975	L907	W842	F777	L712	R650	Q588	W520	T458	V318	D254	Y122	
D1164	F1103	F1042	Q976	L908	D843	K778	E713	H651	E589	T521	A459	F319	I255	H123	
	M1104	Y1043	N977	T909	R844	F779	W714	K652	D590		E460	V320	P256	Y192	
C1168	V1105	L1044		V910	L845	D780	I715	P653	H591	P524	Y461	Y321	L257	S193	
H1169	F1106	H1045	F980	Q911	T781	I781	E716	G525	C592	G525	H462	Y322	L258	M194	
P1170	D1107	H1046	E981	S912	T782	K717	H655	L526	D593	L526	G463	T259	N259	A195	
Y1171	Y1108	E913	Q982	E913	E849	W718	F594		F594		L464	I324	E260	N196	
G1172	K1109	N1048	N914	N914	W850	H784	H657	H657	E595		P465	P325	E261	L197	
E1173	T1110	T1049	E984	A915	H851	L785	H657	C658	V596		A466	D326	S262	Y199	
F1174	M1111	D1050	F985	L916	E852	K786	H720	A659	Q597		R467	P326	S263	T200	
Y1175	F1112	L853		R917	E721	D787	W722	L660	F598		F467	D329	P264	K134	
L1176	M1113	I1052	T989	R918	R854	L788	Q723	S661	E599		P469	R330	A265	Y202	

- Molecule 2: HEMOCYANIN KLH1

Chain B:  28% 69% .





**WORLDWIDE PDB**  
 PROTEIN DATA BANK  

**EMDataBank**  
 Unified Data Resource for 3DEM

T3201	T3264	T3324	T3388
T3204	D3265	K3325	L3389
V3205	D3266	K3326	L3390
L3206	H3267	M3327	I3391
S3207	K3268	K3328	H3392
K3208	K3269	M3329	V3393
I3209	F3270	S3330	H3394
R3210	K3271	V3331	V3395
T3211	F3272	D3332	E3396
T3212	D3273	E3333	D3397
A3213	L3274	A3334	E3398
V3214	K3275	V3335	
V3215	K3276	T3336	
K3216	Y3277	T3337	
V3217	D3278	P3338	
K3218	H3279	M3339	
E3219	T3280	L3340	
K3220	E3281	N3341	
S3221	L3282	L3342	
T3222	D3283	G3343	
T3223	S3285	S3344	
D3224	V3286	T3345	
S3225	L3287	T3346	
D3226	P3288	A3347	
	A3289	M3348	
		F3349	
		K3350	
		C3351	
		K3352	
		V3353	
		F3358	
		H3359	
		A3360	
		F3361	
		L3362	
		L3363	
		G3364	
		R3365	
		M3366	
		Y3367	
		S3368	
		V3369	
		I3370	
		S3371	
		Y3374	
		L3249	
		D3311	
		V3312	
		N3313	
		L3314	
		P3315	
		T3316	
		K3317	
		V3318	
		E3382	
		L3383	
		C3384	
		N3385	
		R3386	
		N3387	

• Molecule 2: HEMOCYANIN KLH1

Chain D: 

V1665	T1729	I1793	K1857	P1921	D1989	P2063	A2187	V2197	V2258	V2326
M1666	F1730	E1794	E1858	Y1922	F1990	S2064	C2188	K2198	H2259	K2327
R1668	Q1732	F1795	Y1860	T1923	Q1991	I2065	C2189	V2199	L2260	L2328
K1669	H1734	H1796	K1862	N1925	R1992	L2066	L2140	M2200	H2261	F2329
V1670	H1735	G1797	I1862	D1926	C1994	D2067	H2141	N2202	L2262	H2330
L1671	R1735	E1798	G1863	H1927	T1995	P2069	G2142	N2203	H2263	V2331
T1672	Y1736	H1799	H1864	T1928	C1999	A2070	P2144	F2203	H2264	E2332
Q1673	Y1737	L1865	H1866	F1931	E2000	H2071	T2145	A2205	L2265	N2333
L1674	T1738	H1801	Y1867	F1932	E2001	H2072	F2146	R2206	L2266	N2334
D1675	V1739	T1802	K1868	K1933	D2001	D2073	P2147	D2207	G2267	H2335
K1676	H1740	K1803	A1869	E1935	A2002	I2074	H2148	V2208	G2269	D2336
R1677	Q1742	R1804	Y1870	P1934	C2003		V2149	V2209	V2270	D2337
Q1678	D1743	D1805	D1871	E1936	Y2004		H2150	P2210	Q2271	T2338
L1680	S1744	L1806	P1872	T1937	F2005		R2151	S2211	Y2272	T2339
S1681	R1745	R1807	L1873	F1938	T2006		L2152	H2212	Y2273	K2340
V1682	K1746	D1808	F1874	P1939	V2007		D2086	D2213	S2274	A2342
V1683	K1747	R1809	L1875	D1939	G2010		T2154	T2214	L2275	A2343
K1684	H1748	R1810	Y1876		G2011		L2155	V2215	S2276	V2344
A1685	G1749	F1812	I1877	K1942	E2012		Q2156	T2216	S2277	P2345
L1686	A1750	S1815	H1878	F1943	K2012		H2163	G2223	L2278	D2346
E1687		T1816	L1879	G1944	E2013		R2164	H2214	Y2279	D2347
D1688		K1817	S1879	Y1945	N2014		E2158	D2218	Y2280	V2348
M1689		T1818	Q1889	I1946	P2015		Q2159	R2219	A2281	F2349
K1690		D1882	T1881	Y1947	N2016		L2161	Q2221	S2282	K2350
			D1883	D1948	A2017		R2162	E2222	Y2283	Y2351
			R1884	T1949	F2018		H2164	G2223	D2284	E2352
			I1884	L1950	R2020		R2165	H2215	T2285	L2353
				E1951	D2019		S2166	T2216	L2286	L2354
				F1952	L2021		G2167	H2226	F2287	G2355
				A1953	Y2022		V2168	L2227	T2288	V2356
				G1954			A2169	S2229	L2289	H2357
				W1955	D2025		V2170	T2230	H2291	Y2358
				P1956	L2026		P2171	G2231	E2292	
				T1957	T2027		V2172	E2232	F2293	L2363
				S1764	Q1826		D2173	H2233	V2294	G2364
				E1765	L1828		D2174	L2236	D2295	G2365
				L1766	L1829			L2241	V2300	L2366
				P1767	R1830			L2242	H2301	H2369
				E1768	A1830			L2243	E2302	L2370
				L1769				L2244	L2304	T2371
				T1770	Q1833			L2245	E2303	E2372
				T1771	D1838			L2246	L2305	K2373
				V1772	F1839			L2247	E2306	D2374
				T1773	E1840			L2248	K2307	H2380
				L1774	V1841			L2249	A2318	
				L1775	Q1842			L2250	D2319	
				D1776	F1843			L2251	S2320	
				D1777	E1844			L2252	S2321	
				P1778	I1845			L2253	L2321	
				E1779	M1846			L2254	H2322	
				T1780	A1716			L2255	T2323	
				G1781	S1787			L2256	Q2324	
				K1782	K1718			L2257	F2325	
				D1783	F1719			L2258	G2326	
				I1784	R1720			L2259	T2327	
				P1785	A1721			L2260	L2328	
				N1786	C1722			L2261	N2329	
				P1787	G1723			L2262	F2330	
				F1788	H1725			L2263	G2331	
				I1789	V1724			L2264	T2332	
				G1790				L2265	L2333	
								L2266	F2334	
								L2267	G2335	
								L2268	H2336	
								L2269	V2337	
								L2270	D2338	
								L2271	K2339	
								L2272	T2340	
								L2273	A2341	
								L2274	D2342	
								L2275	A2343	
								L2276	V2344	
								L2277	P2345	
								L2278	D2346	
								L2279	V2347	
								L2280	F2348	
								L2281	V2349	
								L2282	K2350	
								L2283	Y2351	
								L2284	E2352	
								L2285	L2353	
								L2286	L2354	
								L2287	G2355	
								L2288	V2356	
								L2289	H2357	
								L2290	Y2358	
								L2291		
								L2292	L2363	
								L2293	G2364	
								L2294	G2365	
								L2295	L2366	
								L2296	H2367	
								L2297	V2368	
								L2298	L2369	
								L2299	E2370	
								L2300	T2371	
								L2301	E2372	
								L2302	K2373	
								L2303	E2374	
								L2304	L2375	
								L2305	E2376	
								L2306	D2377	
								L2307		
								L2308		
								L2309		
								L2310		
								L2311		
								L2312		
								L2313		
								L2314		
								L2315		
								L2316		
								L2317		
								L2318		
								L2319		
								L2320		
								L2321		
								L2322		
								L2323		
								L2324		
								L2325		
								L2326		
								L2327		
								L2328		




## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	PER MICROGRAPH, Not provided	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	Not provided	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	50000	Depositor
Image detector	KODAK SO163	Depositor

## 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: CUO

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  > 2$	RMSZ	# $ Z  > 2$
1	A	0.95	2/13940 (0.0%)	1.19	15/18926 (0.1%)
1	C	0.95	2/13938 (0.0%)	1.19	15/18923 (0.1%)
2	B	0.93	2/14526 (0.0%)	1.10	8/19734 (0.0%)
2	D	0.93	2/14526 (0.0%)	1.10	9/19734 (0.0%)
All	All	0.94	8/56930 (0.0%)	1.14	47/77317 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	C	0	1
2	B	0	2
2	D	0	2
All	All	0	6

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	524	PRO	N-CD	16.06	1.70	1.47
1	A	524	PRO	N-CD	16.04	1.70	1.47
2	B	2457	PRO	N-CD	13.70	1.67	1.47
2	D	2457	PRO	N-CD	13.65	1.67	1.47
1	C	653	PRO	N-CD	8.88	1.60	1.47
1	A	653	PRO	N-CD	8.80	1.60	1.47
2	D	2195	TRP	CD2-CE2	-6.59	1.33	1.41
2	B	2195	TRP	CD2-CE2	-6.56	1.33	1.41

All (47) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1632	ASN	CB-CG-OD1	-38.50	44.60	121.60
1	A	1632	ASN	CB-CG-OD1	-38.48	44.65	121.60
1	A	212	ASN	CB-CG-OD1	-38.25	45.10	121.60
1	C	212	ASN	CB-CG-OD1	-38.23	45.13	121.60
1	A	212	ASN	CB-CG-ND2	-9.73	93.35	116.70
1	C	212	ASN	CB-CG-ND2	-9.71	93.39	116.70
1	C	1632	ASN	CB-CG-ND2	-9.69	93.45	116.70
1	A	1632	ASN	CB-CG-ND2	-9.66	93.52	116.70
2	D	2505	ARG	NE-CZ-NH2	-7.59	116.50	120.30
1	C	212	ASN	OD1-CG-ND2	7.22	138.50	121.90
1	A	212	ASN	OD1-CG-ND2	7.19	138.44	121.90
1	A	1632	ASN	OD1-CG-ND2	7.07	138.16	121.90
1	C	1632	ASN	OD1-CG-ND2	7.02	138.05	121.90
2	D	2128	CYS	CA-CB-SG	-6.17	102.89	114.00
2	B	2128	CYS	CA-CB-SG	-6.17	102.90	114.00
2	B	2683	TYR	CA-CB-CG	-5.96	102.08	113.40
2	D	2683	TYR	CA-CB-CG	-5.95	102.09	113.40
1	A	1169	HIS	CA-CB-CG	5.67	123.25	113.60
1	C	1169	HIS	CA-CB-CG	5.67	123.23	113.60
2	D	3095	TYR	CA-CB-CG	-5.66	102.65	113.40
1	A	1308	CYS	CA-CB-SG	-5.64	103.85	114.00
2	B	3095	TYR	CA-CB-CG	-5.63	102.71	113.40
1	C	1308	CYS	CA-CB-SG	-5.61	103.90	114.00
2	D	1875	TYR	CA-CB-CG	-5.59	102.78	113.40
1	A	836	ARG	NE-CZ-NH2	-5.58	117.51	120.30
2	B	1875	TYR	CA-CB-CG	-5.57	102.81	113.40
1	C	836	ARG	NE-CZ-NH2	-5.47	117.56	120.30
1	A	793	ASP	CA-CB-CG	-5.39	101.53	113.40
1	C	793	ASP	CA-CB-CG	-5.38	101.57	113.40
1	A	622	TYR	CA-CB-CG	-5.33	103.27	113.40
1	C	622	TYR	CA-CB-CG	-5.31	103.31	113.40
2	B	3088	TYR	CA-CB-CG	-5.24	103.45	113.40
2	D	3088	TYR	CA-CB-CG	-5.21	103.49	113.40
1	C	78	ARG	NE-CZ-NH2	-5.20	117.70	120.30
2	B	2948	TYR	CB-CG-CD2	-5.14	117.92	121.00
1	A	78	ARG	NE-CZ-NH2	-5.12	117.74	120.30
2	D	2948	TYR	CB-CG-CD2	-5.12	117.93	121.00
1	C	1444	TYR	CA-CB-CG	-5.11	103.69	113.40
2	D	1870	TYR	CA-CB-CG	-5.11	103.69	113.40
1	A	1444	TYR	CA-CB-CG	-5.11	103.69	113.40
1	C	1077	MET	CG-SD-CE	-5.10	92.05	100.20
2	B	1846	MET	CG-SD-CE	-5.09	92.05	100.20
2	D	1846	MET	CG-SD-CE	-5.09	92.05	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	403	HIS	N-CA-CB	5.09	119.76	110.60
1	A	1077	MET	CG-SD-CE	-5.09	92.06	100.20
2	B	1870	TYR	CA-CB-CG	-5.08	103.75	113.40
1	C	403	HIS	N-CA-CB	5.08	119.74	110.60

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1150	GLY	Mainchain
2	B	2951	LEU	Peptide
2	B	3248	ARG	Sidechain
1	C	1150	GLY	Mainchain
2	D	2951	LEU	Peptide
2	D	3248	ARG	Sidechain

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	13530	0	12792	2867	0
1	C	13530	0	12787	2893	0
2	B	14084	0	13309	2799	0
2	D	14084	0	13311	2767	0
3	A	16	0	0	1	0
3	B	16	0	0	3	0
3	C	16	0	0	1	0
3	D	16	0	0	3	0
All	All	55292	0	52199	10907	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 102.

All (10907) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2279:HIS:HE1	2:D:2280:TYR:CZ	1.08	1.67
2:D:2279:HIS:CE1	2:D:2280:TYR:CE2	1.80	1.65
1:C:724:GLN:HE22	1:C:828:LYS:CE	1.10	1.63
2:B:2279:HIS:CE1	2:B:2280:TYR:CE2	1.80	1.63
2:B:2279:HIS:HE1	2:B:2280:TYR:CZ	1.08	1.63
2:B:1714:PRO:CG	2:B:1922:TYR:HE2	1.12	1.62
2:D:1714:PRO:CG	2:D:1922:TYR:HE2	1.12	1.62
1:A:1087:SER:HA	1:A:1097:LYS:CE	1.15	1.62
2:B:2538:ILE:CD1	2:B:2577:MET:CE	1.78	1.61
1:A:724:GLN:HE22	1:A:828:LYS:CE	1.09	1.60
2:D:1707:LEU:HD23	2:D:1709:PRO:CD	1.32	1.59
2:B:2195:TRP:HB2	2:D:1922:TYR:CD1	1.16	1.59
2:D:2538:ILE:CD1	2:D:2577:MET:CE	1.78	1.59
1:C:1189:ARG:CZ	2:D:2431:ARG:HA	1.24	1.57
1:C:1087:SER:HA	1:C:1097:LYS:CE	1.15	1.57
2:B:2101:TYR:CD1	2:D:1693:HIS:HB3	1.39	1.56
2:B:1707:LEU:HD23	2:B:1709:PRO:CD	1.32	1.55
2:B:2195:TRP:CB	2:D:1922:TYR:HD1	1.13	1.54
1:C:1248:TYR:HA	1:C:1470:ARG:CD	1.38	1.52
2:D:2538:ILE:HD11	2:D:2577:MET:CE	1.36	1.51
2:D:2697:PHE:CE1	2:D:2701:HIS:CE1	1.99	1.51
2:D:1985:SER:HB3	2:D:2050:TYR:CE2	1.46	1.50
2:B:2101:TYR:CD1	2:D:1693:HIS:CB	1.90	1.50
1:C:560:ARG:HD3	1:C:609:THR:C	1.25	1.50
2:B:2195:TRP:HE3	2:D:1922:TYR:CE1	1.27	1.49
1:A:1087:SER:CB	1:A:1097:LYS:HD3	1.39	1.49
1:A:5:ARG:NE	1:A:89:LEU:HD21	1.18	1.49
1:C:1087:SER:CB	1:C:1097:LYS:HD3	1.40	1.48
2:B:2697:PHE:CE1	2:B:2701:HIS:CE1	1.99	1.48
2:B:2538:ILE:HD11	2:B:2577:MET:CE	1.36	1.48
2:B:1714:PRO:CG	2:B:1922:TYR:CE2	1.97	1.48
2:B:1985:SER:HB3	2:B:2050:TYR:CE2	1.47	1.47
1:A:676:LEU:HG	1:A:1365:ARG:CB	1.43	1.47
1:A:1257:ARG:HG3	1:A:1521:TYR:CE1	1.48	1.47
2:D:1714:PRO:CG	2:D:1922:TYR:CE2	1.97	1.47
1:A:560:ARG:HD3	1:A:609:THR:C	1.25	1.47
2:B:1707:LEU:CD2	2:B:1709:PRO:HD3	1.41	1.46
1:C:676:LEU:HG	1:C:1365:ARG:CB	1.43	1.46
2:D:1707:LEU:CD2	2:D:1709:PRO:HD3	1.41	1.46
2:B:2577:MET:HG3	2:B:2698:TRP:NE1	1.27	1.45
2:B:2697:PHE:CE1	2:B:2701:HIS:HE1	1.32	1.43
1:C:5:ARG:NE	1:C:89:LEU:HD21	1.18	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:676:LEU:CG	1:C:1365:ARG:HB3	1.45	1.43
2:B:2279:HIS:CE1	2:B:2280:TYR:CZ	1.93	1.42
1:A:676:LEU:CG	1:A:1365:ARG:HB3	1.46	1.42
1:C:524:PRO:CD	1:C:524:PRO:N	1.70	1.42
2:B:2195:TRP:CA	2:D:1921:PRO:HB2	1.47	1.41
2:D:2697:PHE:CE1	2:D:2701:HIS:HE1	1.32	1.41
1:A:1248:TYR:HA	1:A:1470:ARG:CD	1.39	1.41
2:D:2279:HIS:CE1	2:D:2280:TYR:CZ	1.93	1.41
2:D:2577:MET:HG3	2:D:2698:TRP:NE1	1.27	1.40
1:A:1293:HIS:HD2	1:A:1309:CYS:SG	1.44	1.40
1:C:1293:HIS:HD2	1:C:1309:CYS:SG	1.44	1.39
1:A:1248:TYR:CA	1:A:1470:ARG:CD	1.93	1.39
2:B:2101:TYR:CG	2:D:1693:HIS:HB2	1.57	1.39
1:A:1662:THR:O	2:B:1893:ARG:CD	1.70	1.39
1:A:1087:SER:HA	1:A:1097:LYS:CD	1.53	1.38
2:B:3316:PRO:HD2	2:D:3350:LYS:NZ	1.39	1.38
2:B:2279:HIS:CE1	2:B:2280:TYR:CD2	2.12	1.36
1:C:1257:ARG:HG3	1:C:1521:TYR:CE1	1.59	1.36
2:D:2279:HIS:CE1	2:D:2280:TYR:CD2	2.12	1.35
1:C:1248:TYR:CA	1:C:1470:ARG:CD	1.93	1.35
2:B:2279:HIS:NE2	2:B:2280:TYR:CE2	1.95	1.35
1:A:524:PRO:CD	1:A:524:PRO:N	1.70	1.34
2:D:2279:HIS:NE2	2:D:2280:TYR:CE2	1.95	1.34
1:C:1087:SER:HA	1:C:1097:LYS:CD	1.53	1.34
1:C:1079:GLU:HB2	2:D:2456:GLU:CD	1.46	1.34
1:A:1618:LEU:CD2	2:B:1906:VAL:HG11	1.56	1.33
1:A:724:GLN:NE2	1:A:828:LYS:HE2	1.40	1.32
2:B:1707:LEU:CD2	2:B:1709:PRO:CD	2.00	1.32
1:C:724:GLN:NE2	1:C:828:LYS:HE2	1.40	1.32
2:B:2195:TRP:CE3	2:D:1922:TYR:CE1	2.16	1.31
1:C:1293:HIS:CD2	1:C:1309:CYS:SG	2.22	1.31
1:C:89:LEU:HD12	1:C:211:SER:OG	1.24	1.31
2:B:2494:HIS:NE2	2:B:3125:LYS:HG2	1.43	1.31
1:A:1293:HIS:CD2	1:A:1309:CYS:SG	2.22	1.31
1:C:1088:ALA:N	1:C:1097:LYS:HZ3	1.27	1.29
2:B:3316:PRO:CD	2:D:3350:LYS:HZ2	1.45	1.29
1:A:1087:SER:CA	1:A:1097:LYS:CE	2.10	1.29
1:A:5:ARG:CZ	1:A:89:LEU:HD21	1.62	1.29
2:D:2279:HIS:HE1	2:D:2280:TYR:CE1	1.50	1.29
2:B:3316:PRO:CD	2:D:3350:LYS:NZ	1.93	1.29
1:C:1087:SER:CA	1:C:1097:LYS:CE	2.10	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:LEU:HD12	1:A:211:SER:OG	1.25	1.28
2:D:1707:LEU:CD2	2:D:1709:PRO:CD	2.00	1.28
1:A:1515:TYR:CE1	1:A:1519:PHE:CB	2.16	1.28
1:C:5:ARG:CZ	1:C:89:LEU:HD21	1.62	1.28
2:D:1757:TRP:CE3	2:D:1873:LEU:HD11	1.67	1.27
2:B:1757:TRP:CE3	2:B:1873:LEU:HD11	1.67	1.27
1:A:1161:ILE:HD13	1:A:1198:LYS:CE	1.63	1.27
2:B:2279:HIS:HE1	2:B:2280:TYR:CE1	1.50	1.27
2:D:1714:PRO:CB	2:D:1922:TYR:HE2	1.46	1.27
1:C:1515:TYR:CE1	1:C:1519:PHE:CB	2.17	1.27
2:B:1874:PHE:CZ	2:B:1878:HIS:CE1	2.23	1.27
1:A:724:GLN:NE2	1:A:828:LYS:CE	1.95	1.27
1:C:1161:ILE:HD13	1:C:1198:LYS:CE	1.63	1.27
2:B:1714:PRO:CB	2:B:1922:TYR:HE2	1.46	1.26
2:B:2195:TRP:CD1	2:D:1695:SER:HB2	1.69	1.26
2:B:2195:TRP:HD1	2:D:1695:SER:CB	1.47	1.26
1:A:1249:GLN:O	1:A:1470:ARG:NH2	1.68	1.26
2:D:1874:PHE:CZ	2:D:1878:HIS:CE1	2.23	1.26
1:C:5:ARG:NE	1:C:89:LEU:CD2	2.00	1.25
2:B:2101:TYR:CE2	2:D:1694:SER:HA	1.70	1.25
2:B:1747:LYS:HZ1	2:D:2094:ARG:CD	1.49	1.25
2:D:1890:SER:O	2:D:1893:ARG:HG2	1.34	1.25
1:C:1249:GLN:O	1:C:1470:ARG:NH2	1.67	1.25
2:D:1909:MET:HE2	2:D:1938:PHE:CE2	1.72	1.25
2:B:3347:ALA:HB2	2:D:3315:PRO:CB	1.66	1.24
1:A:5:ARG:NE	1:A:89:LEU:CD2	1.99	1.24
1:C:5:ARG:CD	1:C:89:LEU:HD21	1.68	1.24
2:B:1715:ALA:HA	2:B:1719:ARG:NH2	1.51	1.23
2:B:2194:VAL:C	2:D:1921:PRO:CB	2.05	1.23
2:B:1714:PRO:CB	2:B:1922:TYR:CE2	2.21	1.23
1:A:1088:ALA:N	1:A:1097:LYS:HZ1	1.35	1.23
2:B:1693:HIS:CD2	2:D:2101:TYR:HB3	1.36	1.23
1:C:1248:TYR:CA	1:C:1470:ARG:HD3	1.57	1.23
1:A:5:ARG:CD	1:A:89:LEU:HD21	1.68	1.23
2:B:2195:TRP:CD1	2:D:1695:SER:CB	2.22	1.22
2:D:1715:ALA:HA	2:D:1719:ARG:NH2	1.51	1.22
1:A:560:ARG:CD	1:A:609:THR:HB	1.68	1.22
1:A:1515:TYR:CE2	1:A:1521:TYR:HB2	1.75	1.22
2:B:1890:SER:O	2:B:1893:ARG:HG2	1.34	1.22
1:C:1251:GLU:O	1:C:1516:GLN:HB3	1.32	1.21
1:A:1251:GLU:O	1:A:1516:GLN:HB3	1.32	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1840:GLU:OE2	2:B:1844:GLU:HB2	1.41	1.21
2:D:1714:PRO:CB	2:D:1922:TYR:CE2	2.21	1.21
2:B:3316:PRO:HB3	2:B:3392:HIS:HB3	1.21	1.21
1:C:560:ARG:HH21	1:C:617:MET:CG	1.53	1.20
2:B:1693:HIS:CD2	2:D:2101:TYR:CB	2.15	1.20
1:C:1515:TYR:CE2	1:C:1521:TYR:HB2	1.75	1.20
1:A:560:ARG:HH21	1:A:617:MET:CG	1.53	1.20
1:A:1087:SER:CA	1:A:1097:LYS:HD3	1.71	1.20
2:D:2697:PHE:CZ	2:D:2701:HIS:CE1	2.29	1.20
2:B:2697:PHE:CZ	2:B:2701:HIS:CE1	2.29	1.20
1:C:1515:TYR:OH	1:C:1521:TYR:CD2	1.95	1.20
2:B:2494:HIS:HE1	2:B:3125:LYS:NZ	1.36	1.20
2:B:2494:HIS:CB	2:B:3124:VAL:CG1	2.21	1.19
1:C:629:PHE:CZ	1:C:633:HIS:CE1	2.30	1.19
1:C:1087:SER:CA	1:C:1097:LYS:HD3	1.71	1.19
1:C:724:GLN:NE2	1:C:828:LYS:CE	1.95	1.19
2:B:3054:LEU:HB2	2:B:3074:LEU:HD23	1.23	1.19
2:D:2096:ILE:HG12	2:D:2185:LEU:HD12	1.20	1.19
1:C:1189:ARG:CZ	2:D:2431:ARG:CA	2.19	1.19
2:B:2101:TYR:CB	2:D:1693:HIS:HB2	1.72	1.19
2:D:2384:VAL:HG13	2:D:2437:ILE:HG23	1.20	1.19
1:A:629:PHE:CZ	1:A:633:HIS:CE1	2.30	1.18
1:C:1189:ARG:HD3	2:D:2430:ASN:O	1.39	1.18
1:C:629:PHE:CE1	1:C:633:HIS:HE1	1.62	1.18
2:D:2577:MET:CG	2:D:2698:TRP:HE1	1.57	1.18
2:D:3205:VAL:HG23	2:D:3288:PRO:HG2	1.25	1.18
2:B:2494:HIS:HB2	2:B:3124:VAL:CG1	1.74	1.17
2:B:2194:VAL:O	2:D:1921:PRO:CB	1.93	1.17
1:C:1233:SER:CB	2:D:2320:SER:HB2	1.74	1.17
2:B:3318:VAL:HG12	2:B:3320:VAL:HG22	1.26	1.17
1:C:1251:GLU:O	1:C:1516:GLN:CB	1.93	1.16
1:A:1251:GLU:O	1:A:1516:GLN:CB	1.94	1.16
1:A:629:PHE:CE1	1:A:633:HIS:HE1	1.62	1.16
2:B:1714:PRO:HG2	2:B:1922:TYR:CE2	1.68	1.16
2:D:1714:PRO:HG2	2:D:1922:TYR:CE2	1.68	1.16
2:B:2577:MET:CG	2:B:2698:TRP:HE1	1.57	1.16
2:D:1840:GLU:OE2	2:D:1844:GLU:HB2	1.41	1.16
2:D:2279:HIS:HB3	2:D:2423:LYS:HE2	1.23	1.16
1:C:1078:ARG:CB	2:D:2457:PRO:HD3	1.76	1.16
1:C:1153:LYS:HG3	1:C:1176:LEU:HD21	1.21	1.16
1:C:1233:SER:HB2	2:D:2320:SER:HB2	1.24	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:163:LEU:HD12	1:C:294:LEU:HD11	1.27	1.15
2:D:2794:THR:HG23	2:D:2847:ILE:HG13	1.16	1.15
1:A:1618:LEU:HD21	2:B:1906:VAL:CG1	1.75	1.15
1:A:1515:TYR:CZ	1:A:1521:TYR:HB2	1.80	1.15
2:B:2494:HIS:CB	2:B:3124:VAL:HG13	1.77	1.15
1:A:58:CYS:SG	1:A:60:HIS:CE1	2.40	1.15
1:A:89:LEU:CD1	1:A:211:SER:OG	1.95	1.15
2:D:2124:LEU:HD22	2:D:2125:PRO:HA	1.16	1.14
2:B:2091:LEU:HD11	2:B:2171:PRO:HG2	1.27	1.14
1:C:1087:SER:CA	1:C:1097:LYS:CD	2.23	1.14
1:C:1515:TYR:CZ	1:C:1521:TYR:HB2	1.81	1.14
1:A:8:VAL:HG13	1:A:104:LEU:HD12	1.30	1.14
1:A:1515:TYR:OH	1:A:1521:TYR:CD2	2.00	1.14
2:B:2494:HIS:HB2	2:B:3124:VAL:HG11	1.17	1.14
1:C:1233:SER:HB2	2:D:2320:SER:CB	1.77	1.14
2:D:2091:LEU:HD11	2:D:2171:PRO:HG2	1.27	1.14
2:D:2140:ILE:HD13	2:D:2145:THR:HB	1.15	1.14
2:B:2195:TRP:N	2:D:1921:PRO:HB2	1.58	1.14
2:B:2538:ILE:HD12	2:B:2577:MET:SD	0.57	1.14
1:A:1274:ARG:HD3	1:A:1365:ARG:HH22	1.05	1.14
1:C:89:LEU:CD1	1:C:211:SER:OG	1.95	1.14
2:B:2384:VAL:HG13	2:B:2437:ILE:HG23	1.20	1.14
1:A:560:ARG:HH21	1:A:617:MET:HG2	1.00	1.14
2:D:1874:PHE:CE2	2:D:1878:HIS:HE1	1.66	1.14
2:B:2140:ILE:HD13	2:B:2145:THR:HB	1.15	1.14
1:A:74:VAL:HG21	1:A:273:LEU:HD23	1.27	1.14
1:C:58:CYS:SG	1:C:60:HIS:CE1	2.40	1.14
2:D:3316:PRO:HB3	2:D:3392:HIS:HB3	1.21	1.14
2:B:2194:VAL:C	2:D:1921:PRO:HB3	1.67	1.13
1:C:1353:PRO:HG2	1:C:1356:ILE:HG12	1.28	1.13
1:A:1248:TYR:CA	1:A:1470:ARG:HD3	1.58	1.13
1:C:74:VAL:HG21	1:C:273:LEU:HD23	1.27	1.13
2:D:3054:LEU:HB2	2:D:3074:LEU:HD23	1.23	1.13
1:A:1087:SER:CA	1:A:1097:LYS:CD	2.23	1.13
2:D:1757:TRP:CZ3	2:D:1873:LEU:HD11	1.82	1.13
2:D:2538:ILE:CD1	2:D:2577:MET:SD	1.21	1.13
1:C:498:VAL:HG13	1:C:511:ILE:HD11	1.20	1.13
1:A:163:LEU:HD12	1:A:294:LEU:HD11	1.27	1.13
1:A:1248:TYR:CA	1:A:1470:ARG:HD2	1.65	1.13
1:A:498:VAL:HG13	1:A:511:ILE:HD11	1.20	1.13
2:B:2506:LYS:HG2	2:B:2769:ASP:HB3	1.16	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:8:VAL:HG13	1:C:104:LEU:HD12	1.30	1.13
2:D:3318:VAL:HG12	2:D:3320:VAL:HG22	1.26	1.13
2:B:1693:HIS:HD2	2:D:2101:TYR:CB	1.54	1.13
2:B:1909:MET:HE2	2:B:1938:PHE:CE2	1.83	1.13
2:B:1909:MET:HE2	2:B:1938:PHE:HE2	1.09	1.12
2:D:1973:VAL:HG23	2:D:2026:ILE:HG13	1.30	1.12
2:D:2538:ILE:HD12	2:D:2577:MET:SD	0.56	1.12
2:B:1874:PHE:CE2	2:B:1878:HIS:HE1	1.66	1.12
2:B:1922:TYR:CD1	2:D:2195:TRP:HB2	1.84	1.12
1:A:1086:LEU:HD22	1:A:1090:ILE:HD13	1.26	1.12
1:C:1248:TYR:CB	1:C:1470:ARG:HD2	1.79	1.12
2:B:1973:VAL:HG23	2:B:2026:ILE:HG13	1.29	1.12
1:A:1153:LYS:HG3	1:A:1176:LEU:HD21	1.21	1.12
1:A:1087:SER:C	1:A:1097:LYS:NZ	2.03	1.12
1:C:1248:TYR:CA	1:C:1470:ARG:HD2	1.65	1.12
1:A:1257:ARG:HB2	1:A:1521:TYR:CD1	1.84	1.12
1:A:1248:TYR:CB	1:A:1470:ARG:HD2	1.80	1.12
1:A:1078:ARG:HB3	2:B:2457:PRO:HD3	1.27	1.12
1:C:1079:GLU:OE1	2:D:2456:GLU:OE2	1.68	1.11
1:C:1662:THR:O	2:D:1893:ARG:HD3	1.46	1.11
2:D:2506:LYS:HG2	2:D:2769:ASP:HB3	1.16	1.11
1:A:486:ILE:HD11	1:A:688:PRO:HG2	1.26	1.11
1:A:1468:LEU:HD23	1:A:1533:ILE:HG23	1.26	1.11
2:B:2195:TRP:CB	2:D:1922:TYR:HA	1.79	1.11
2:D:1874:PHE:CE2	2:D:1878:HIS:CE1	2.39	1.11
2:B:3347:ALA:HB2	2:D:3315:PRO:HB3	1.11	1.11
1:C:1189:ARG:NH2	2:D:2431:ARG:HA	1.64	1.11
1:A:1656:HIS:HA	2:B:1898:SER:HB2	1.24	1.11
2:B:1757:TRP:CZ3	2:B:1873:LEU:HD11	1.83	1.11
2:B:1909:MET:CE	2:B:1938:PHE:CE2	2.33	1.11
2:D:3149:VAL:HG23	2:D:3151:ASN:H	1.02	1.11
2:B:2494:HIS:CE1	2:B:3125:LYS:NZ	2.19	1.11
2:D:2912:ILE:HG22	2:D:2995:PRO:HB2	1.11	1.11
2:D:2254:VAL:HG12	2:D:2433:PHE:HD1	1.16	1.10
1:C:1087:SER:C	1:C:1097:LYS:NZ	2.04	1.10
2:D:2714:LEU:HD23	2:D:2778:ILE:HG23	1.25	1.10
2:B:2096:ILE:HG12	2:B:2185:LEU:HD12	1.20	1.10
2:B:2279:HIS:HB3	2:B:2423:LYS:HE2	1.23	1.10
2:B:2538:ILE:CD1	2:B:2577:MET:SD	1.21	1.10
1:C:560:ARG:HH21	1:C:617:MET:HG2	1.00	1.10
2:D:1909:MET:CE	2:D:1938:PHE:CE2	2.33	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1988:VAL:HG12	2:B:2047:ILE:HG12	1.25	1.10
1:A:95:THR:HA	1:A:155:LEU:HD23	1.23	1.10
1:A:1515:TYR:CD1	1:A:1519:PHE:CD2	2.39	1.10
1:A:896:HIS:CE1	1:A:1033:LEU:HD21	1.86	1.10
2:B:2714:LEU:HD23	2:B:2778:ILE:HG23	1.25	1.10
1:A:405:PRO:HG3	1:A:657:HIS:CB	1.81	1.10
1:C:1515:TYR:CD1	1:C:1519:PHE:CD2	2.39	1.10
2:B:2697:PHE:CD1	2:B:2701:HIS:HE1	1.70	1.10
1:A:1515:TYR:CE1	1:A:1519:PHE:HB3	1.83	1.10
2:D:2176:THR:HG22	2:D:2236:LEU:HD12	1.24	1.10
2:B:2176:THR:HG22	2:B:2236:LEU:HD12	1.24	1.10
1:C:1086:LEU:HD22	1:C:1090:ILE:HD13	1.26	1.10
2:B:2627:THR:HG22	2:B:2683:TYR:HB2	1.27	1.10
2:B:2124:LEU:HD22	2:B:2125:PRO:HA	1.16	1.09
1:A:1353:PRO:HG2	1:A:1356:ILE:HG12	1.28	1.09
1:A:498:VAL:CG1	1:A:511:ILE:HD11	1.81	1.09
1:C:896:HIS:HE1	1:C:1033:LEU:HD21	0.94	1.09
2:B:3149:VAL:HG23	2:B:3151:ASN:H	1.02	1.09
2:D:1988:VAL:HG12	2:D:2047:ILE:HG12	1.25	1.09
1:C:325:PRO:HD3	1:C:377:TYR:HA	1.33	1.09
2:D:2697:PHE:CD1	2:D:2701:HIS:HE1	1.70	1.09
1:C:498:VAL:CG1	1:C:511:ILE:HD11	1.81	1.09
1:A:1257:ARG:CG	1:A:1521:TYR:CE1	2.34	1.09
1:A:1549:VAL:HG13	1:A:1607:ILE:HG13	1.35	1.09
2:B:2472:LEU:HD22	2:B:2473:PRO:HD2	1.33	1.09
1:C:486:ILE:HD11	1:C:688:PRO:HG2	1.26	1.09
1:C:405:PRO:HG3	1:C:657:HIS:CB	1.81	1.09
2:B:2254:VAL:HG12	2:B:2433:PHE:HD1	1.16	1.09
1:A:179:HIS:HD1	1:A:213:VAL:HG11	1.14	1.09
1:C:183:HIS:HD1	1:C:194:MET:HG2	1.12	1.09
1:A:1618:LEU:CG	2:B:1906:VAL:HG11	1.83	1.09
2:B:2974:HIS:CE1	3:B:9008:CUO:O2	2.06	1.09
2:B:2437:ILE:HD11	2:B:2441:LEU:HD21	1.33	1.09
1:A:560:ARG:CD	1:A:609:THR:C	2.20	1.09
1:C:1549:VAL:HG13	1:C:1607:ILE:HG13	1.35	1.09
1:A:724:GLN:HE22	1:A:828:LYS:HE3	1.18	1.08
1:C:1087:SER:HA	1:C:1097:LYS:HE2	1.11	1.08
1:C:95:THR:HA	1:C:155:LEU:HD23	1.22	1.08
1:C:179:HIS:HD1	1:C:213:VAL:HG11	1.14	1.08
1:A:325:PRO:HD3	1:A:377:TYR:HA	1.33	1.08
1:C:579:PHE:HE1	1:C:583:LEU:HD12	1.15	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1078:ARG:HB2	2:D:2457:PRO:HD3	1.33	1.08
2:B:2794:THR:HG23	2:B:2847:ILE:HG13	1.16	1.08
2:B:1985:SER:CB	2:B:2050:TYR:CE2	2.36	1.08
1:C:896:HIS:CE1	1:C:1033:LEU:HD21	1.86	1.08
2:B:2195:TRP:HA	2:D:1921:PRO:CB	1.84	1.08
2:D:2472:LEU:HD22	2:D:2473:PRO:HD2	1.33	1.08
2:B:2912:ILE:HG22	2:B:2995:PRO:HB2	1.11	1.08
1:C:560:ARG:HD3	1:C:609:THR:O	1.54	1.08
1:C:560:ARG:CD	1:C:609:THR:C	2.20	1.08
1:A:1662:THR:O	2:B:1893:ARG:HD3	0.91	1.08
2:B:1874:PHE:CE2	2:B:1878:HIS:CE1	2.39	1.08
2:B:1865:LEU:HD22	2:B:2013:GLU:HG2	1.31	1.08
2:D:1865:LEU:HD22	2:D:2013:GLU:HG2	1.31	1.08
1:A:1087:SER:HA	1:A:1097:LYS:HE2	1.11	1.07
1:C:1274:ARG:HD3	1:C:1365:ARG:HH22	1.05	1.07
1:A:560:ARG:HD3	1:A:609:THR:O	1.54	1.07
1:C:782:THR:HG22	1:C:786:LYS:HE2	1.33	1.07
1:A:560:ARG:NH2	1:A:617:MET:CG	2.17	1.07
1:C:1066:PRO:HB2	1:C:1069:VAL:HG22	1.36	1.07
2:D:2100:LYS:HA	2:D:2204:PHE:HE1	1.18	1.07
2:B:2195:TRP:HA	2:D:1921:PRO:HB2	1.11	1.07
2:B:3205:VAL:HG23	2:B:3288:PRO:HG2	1.25	1.07
2:B:3243:PRO:HG2	2:D:3354:PRO:HB3	1.30	1.07
2:B:1747:LYS:HZ1	2:D:2094:ARG:HD2	1.14	1.07
1:C:1468:LEU:HD23	1:C:1533:ILE:HG23	1.26	1.07
1:A:549:ILE:HG13	1:A:556:PRO:HG3	1.37	1.07
1:C:1549:VAL:H	1:C:1608:THR:HG22	1.16	1.07
2:B:2526:VAL:HG21	2:B:2581:LEU:HD23	1.35	1.07
2:D:2627:THR:HG22	2:D:2683:TYR:HB2	1.27	1.07
1:C:1189:ARG:NH2	2:D:2431:ARG:CA	2.18	1.07
1:A:1515:TYR:CE1	1:A:1519:PHE:CG	2.43	1.07
1:C:943:HIS:HD2	1:C:945:LYS:O	1.37	1.07
1:A:1157:VAL:HG22	1:A:1216:VAL:HG12	1.37	1.07
1:C:452:VAL:HG11	1:C:676:LEU:HD12	1.08	1.06
1:A:1476:TYR:CE2	1:A:1477:ARG:HB2	1.90	1.06
1:A:560:ARG:HD2	1:A:609:THR:HB	1.15	1.06
1:A:466:ALA:HB2	1:A:767:LYS:HD3	1.08	1.06
1:A:895:VAL:HG13	1:A:901:PHE:HA	1.34	1.06
1:C:1189:ARG:HH22	2:D:2432:LEU:N	1.53	1.06
1:C:1463:ALA:HA	1:C:1466:GLN:HE21	1.14	1.06
2:D:1985:SER:CB	2:D:2050:TYR:CE2	2.36	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:464:LEU:HD22	1:C:465:PRO:HA	1.35	1.06
2:D:1806:ILE:HG12	2:D:1854:VAL:HA	1.37	1.06
2:B:2101:TYR:HB3	2:D:1693:HIS:HB2	1.36	1.06
2:D:2538:ILE:CG1	2:D:2577:MET:SD	2.43	1.06
1:C:1239:ARG:CZ	1:C:1242:HIS:CE1	2.39	1.06
2:B:3308:ILE:HA	2:B:3329:MET:HB2	1.37	1.06
1:A:486:ILE:HB	1:A:662:LEU:HD21	1.33	1.06
1:A:943:HIS:HD2	1:A:945:LYS:O	1.37	1.06
1:C:1515:TYR:CE1	1:C:1519:PHE:HB3	1.84	1.06
1:C:560:ARG:NH2	1:C:617:MET:CG	2.17	1.06
1:A:1463:ALA:HA	1:A:1466:GLN:HE21	1.14	1.06
1:C:1079:GLU:HB2	2:D:2456:GLU:OE2	1.54	1.06
2:B:1806:ILE:HG12	2:B:1854:VAL:HA	1.37	1.06
1:A:1226:LYS:HA	1:A:1226:LYS:HE2	1.38	1.06
1:C:486:ILE:HB	1:C:662:LEU:HD21	1.33	1.06
2:B:2100:LYS:HA	2:B:2204:PHE:HE1	1.18	1.06
1:C:1515:TYR:CE1	1:C:1519:PHE:CG	2.43	1.06
2:D:1991:GLN:HG2	2:D:2001:ASP:HA	1.12	1.06
1:C:405:PRO:HG3	1:C:657:HIS:HB3	1.07	1.06
1:A:1249:GLN:HG3	1:A:1476:TYR:CD1	1.91	1.05
1:A:1515:TYR:CD1	1:A:1519:PHE:CG	2.44	1.05
1:A:464:LEU:HD22	1:A:465:PRO:HA	1.35	1.05
2:B:2494:HIS:CG	2:B:3124:VAL:HG13	1.91	1.05
1:C:1233:SER:CA	2:D:2320:SER:HB2	1.84	1.05
1:C:1226:LYS:HE2	1:C:1226:LYS:HA	1.38	1.05
1:A:896:HIS:HE1	1:A:1033:LEU:HD21	0.94	1.05
2:B:2101:TYR:CD1	2:D:1693:HIS:HB2	1.68	1.05
2:B:2577:MET:CG	2:B:2698:TRP:NE1	2.18	1.05
1:A:1618:LEU:HD21	2:B:1906:VAL:HG11	1.08	1.05
2:D:1847:HIS:HD1	2:D:1881:THR:HG21	1.15	1.05
1:C:629:PHE:CE1	1:C:633:HIS:CE1	2.43	1.05
1:A:1409:GLU:CD	1:A:1544:LYS:HE2	1.77	1.05
1:C:1476:TYR:CE2	1:C:1477:ARG:HB2	1.90	1.05
1:A:579:PHE:HE1	1:A:583:LEU:HD12	1.15	1.05
2:D:3308:ILE:HA	2:D:3329:MET:HB2	1.37	1.05
2:D:2437:ILE:HD11	2:D:2441:LEU:HD21	1.33	1.05
2:B:2194:VAL:HG12	2:B:2196:ARG:H	1.21	1.05
2:B:2538:ILE:CG1	2:B:2577:MET:SD	2.43	1.05
1:C:1515:TYR:CD1	1:C:1519:PHE:CG	2.44	1.05
1:A:183:HIS:HD1	1:A:194:MET:HG2	1.12	1.05
1:A:1549:VAL:H	1:A:1608:THR:HG22	1.16	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1847:HIS:HD1	2:B:1881:THR:HG21	1.15	1.05
2:D:2974:HIS:CE1	3:D:9008:CUO:O2	2.09	1.05
2:D:2526:VAL:HG21	2:D:2581:LEU:HD23	1.34	1.05
1:C:1249:GLN:HG3	1:C:1476:TYR:CD1	1.91	1.05
2:B:1991:GLN:HG2	2:B:2001:ASP:HA	1.12	1.05
2:B:2390:LEU:HB2	2:B:2429:TYR:HD2	1.20	1.04
1:A:1239:ARG:CZ	1:A:1242:HIS:CE1	2.39	1.04
1:C:943:HIS:CD2	1:C:945:LYS:O	2.10	1.04
2:D:2387:GLY:HA3	2:D:2432:LEU:HD21	1.34	1.04
1:C:148:LYS:HD2	1:C:150:GLY:O	1.56	1.04
1:A:412:PRO:CG	1:A:654:TYR:HB2	1.87	1.04
1:C:724:GLN:HE22	1:C:828:LYS:HE3	1.18	1.04
2:B:2387:GLY:HA3	2:B:2432:LEU:HD21	1.34	1.04
2:B:1922:TYR:HD1	2:D:2195:TRP:HB2	1.17	1.04
2:B:2195:TRP:HB3	2:D:1922:TYR:HA	1.34	1.04
1:A:1515:TYR:OH	1:A:1521:TYR:HB2	1.55	1.04
2:D:1909:MET:HE2	2:D:1938:PHE:HE2	1.05	1.04
1:C:895:VAL:HG13	1:C:901:PHE:HA	1.34	1.04
2:B:2094:ARG:HG2	2:D:1924:LEU:HB3	1.39	1.04
1:C:183:HIS:HD1	1:C:194:MET:CG	1.69	1.04
1:A:629:PHE:CE1	1:A:633:HIS:CE1	2.44	1.04
1:A:810:LEU:HD11	1:A:814:LEU:HD22	1.40	1.04
1:C:1622:PHE:HZ	1:C:1646:ILE:HD12	1.21	1.04
1:A:782:THR:HG22	1:A:786:LYS:HE2	1.33	1.04
1:C:1087:SER:CB	1:C:1097:LYS:CD	2.35	1.04
1:C:466:ALA:HB2	1:C:767:LYS:HD3	1.08	1.04
1:A:1365:ARG:HG2	1:A:1366:GLN:OE1	1.58	1.04
1:A:1477:ARG:HG3	1:A:1513:PHE:HB2	1.40	1.04
1:C:1157:VAL:HG22	1:C:1216:VAL:HG12	1.37	1.04
1:C:810:LEU:HD11	1:C:814:LEU:HD22	1.40	1.04
1:C:560:ARG:CD	1:C:609:THR:CB	2.36	1.03
2:B:2437:ILE:HG12	2:B:2441:LEU:HG	1.39	1.03
1:A:590:ASP:OD1	1:A:657:HIS:NE2	1.91	1.03
1:C:1409:GLU:CD	1:C:1544:LYS:HE2	1.77	1.03
1:C:412:PRO:CG	1:C:654:TYR:HB2	1.87	1.03
2:B:1747:LYS:NZ	2:D:2094:ARG:HD2	1.72	1.03
1:A:1087:SER:CB	1:A:1097:LYS:CD	2.35	1.03
2:D:2577:MET:CG	2:D:2698:TRP:NE1	2.18	1.03
1:C:1274:ARG:HD3	1:C:1365:ARG:NH2	1.74	1.03
1:A:943:HIS:CD2	1:A:945:LYS:O	2.10	1.03
1:C:1142:PHE:HE1	1:C:1234:VAL:HB	1.22	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1242:HIS:CB	1:C:1476:TYR:HE1	1.72	1.03
1:C:1257:ARG:HB2	1:C:1521:TYR:CD1	1.93	1.03
1:A:405:PRO:HG3	1:A:657:HIS:HB3	1.07	1.03
1:A:148:LYS:HD2	1:A:150:GLY:O	1.56	1.03
1:A:183:HIS:HD1	1:A:194:MET:CG	1.70	1.03
1:A:1242:HIS:CB	1:A:1476:TYR:HE1	1.72	1.03
2:D:2240:ALA:HA	2:D:2259:MET:HE2	1.41	1.02
2:B:2175:TRP:HH2	2:B:2224:LEU:HB2	1.21	1.02
2:D:2194:VAL:HG12	2:D:2196:ARG:H	1.21	1.02
1:C:1477:ARG:HG3	1:C:1513:PHE:HB2	1.40	1.02
1:C:241:LEU:HD22	1:C:264:PRO:HB2	1.39	1.02
1:A:1161:ILE:HD13	1:A:1198:LYS:HE3	1.41	1.02
1:C:407:LYS:HE3	1:C:652:LYS:HG3	1.41	1.02
2:B:2494:HIS:NE2	2:B:3125:LYS:CG	2.21	1.02
2:D:2437:ILE:HG12	2:D:2441:LEU:HG	1.39	1.02
2:B:2628:ARG:HH22	2:B:2696:LEU:HB2	1.25	1.02
2:D:2228:THR:HG23	2:D:2231:GLY:H	1.23	1.02
1:A:560:ARG:CD	1:A:609:THR:CB	2.37	1.02
1:C:1161:ILE:HD13	1:C:1198:LYS:HE3	1.41	1.02
1:C:309:LEU:HB2	1:C:354:PHE:HD2	1.24	1.02
1:C:1515:TYR:OH	1:C:1521:TYR:HB2	1.58	1.02
2:B:3243:PRO:CG	2:D:3354:PRO:HB3	1.89	1.02
2:B:2144:PRO:HG2	2:B:2318:ALA:HB2	1.42	1.02
1:A:452:VAL:HG11	1:A:676:LEU:HD12	1.08	1.02
1:A:1656:HIS:CA	2:B:1898:SER:HB2	1.88	1.02
1:A:405:PRO:CG	1:A:657:HIS:HB3	1.90	1.02
1:A:1066:PRO:HB2	1:A:1069:VAL:HG22	1.36	1.02
1:A:309:LEU:HB2	1:A:354:PHE:HD2	1.24	1.02
1:A:1079:GLU:HB2	2:B:2456:GLU:HG3	1.03	1.01
2:D:2390:LEU:HB2	2:D:2429:TYR:HD2	1.20	1.01
2:B:2195:TRP:CA	2:D:1921:PRO:CB	2.38	1.01
2:B:2195:TRP:N	2:D:1921:PRO:CB	2.19	1.01
1:A:1274:ARG:HD3	1:A:1365:ARG:NH2	1.74	1.01
1:A:481:VAL:HG21	1:A:486:ILE:HG23	1.42	1.01
2:B:2228:THR:HG23	2:B:2231:GLY:H	1.23	1.01
1:C:1189:ARG:NH1	2:D:2430:ASN:O	1.93	1.01
1:A:407:LYS:HE3	1:A:652:LYS:HG3	1.41	1.01
1:C:1306:ILE:HG21	1:C:1595:MET:HB3	1.42	1.01
2:D:2083:LYS:HG2	2:D:2169:ALA:HB2	1.42	1.01
1:A:1087:SER:HA	1:A:1097:LYS:NZ	1.75	1.01
1:C:1087:SER:HA	1:C:1097:LYS:NZ	1.75	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:452:VAL:HG11	1:C:676:LEU:CD1	1.91	1.01
1:C:549:ILE:HG13	1:C:556:PRO:HG3	1.37	1.01
2:B:2086:HIS:HB3	2:B:2090:THR:HG21	1.42	1.01
2:D:2144:PRO:HG2	2:D:2318:ALA:HB2	1.42	1.01
1:C:1365:ARG:HG2	1:C:1366:GLN:OE1	1.58	1.00
1:C:1254:SER:OG	1:C:1522:ALA:HB2	1.60	1.00
2:D:2973:TRP:HA	2:D:3141:LEU:HD13	1.42	1.00
1:C:590:ASP:OD1	1:C:657:HIS:NE2	1.91	1.00
2:D:2175:TRP:HH2	2:D:2224:LEU:HB2	1.21	1.00
1:C:1189:ARG:HH22	2:D:2432:LEU:H	1.06	1.00
2:D:2175:TRP:HB2	2:D:2263:ILE:HD11	1.43	1.00
1:A:1622:PHE:HZ	1:A:1646:ILE:HD12	1.21	1.00
1:A:1142:PHE:HE1	1:A:1234:VAL:HB	1.22	1.00
1:C:405:PRO:CG	1:C:657:HIS:HB3	1.90	1.00
2:B:3316:PRO:HD3	2:D:3350:LYS:HZ1	1.22	1.00
1:C:1469:GLN:HG3	1:C:1474:ARG:HB2	1.43	1.00
1:A:1395:PHE:HB3	1:A:1400:PHE:HZ	1.25	1.00
1:A:1469:GLN:HG3	1:A:1474:ARG:HB2	1.43	1.00
2:D:1715:ALA:HA	2:D:1719:ARG:HH21	0.84	1.00
1:A:241:LEU:HD22	1:A:264:PRO:HB2	1.39	1.00
1:A:452:VAL:HG11	1:A:676:LEU:CD1	1.91	1.00
1:A:578:LEU:HD11	1:A:604:THR:HG21	1.39	1.00
1:C:1646:ILE:HD13	2:D:1906:VAL:CG2	1.91	1.00
1:A:1404:VAL:HG22	1:A:1423:LEU:HD22	1.43	1.00
2:B:1747:LYS:NZ	2:D:2094:ARG:CD	2.25	0.99
1:C:578:LEU:HD11	1:C:604:THR:HG21	1.40	0.99
1:C:578:LEU:HD21	1:C:608:TRP:HH2	1.24	0.99
1:C:1233:SER:CB	2:D:2320:SER:CB	2.36	0.99
2:D:2628:ARG:HH22	2:D:2696:LEU:HB2	1.24	0.99
1:A:1254:SER:OG	1:A:1522:ALA:HB2	1.60	0.99
1:A:781:ILE:HG22	1:A:785:LEU:HG	1.44	0.99
1:A:1657:THR:N	2:B:1898:SER:OG	1.94	0.99
2:B:2279:HIS:CE1	2:B:2280:TYR:CG	2.51	0.99
1:A:1306:ILE:HG21	1:A:1595:MET:HB3	1.42	0.99
1:A:1334:LYS:HA	1:A:1334:LYS:HE2	1.45	0.99
2:B:2494:HIS:CE1	2:B:3125:LYS:HZ3	1.79	0.99
1:A:860:LEU:HD23	1:A:869:PHE:HB2	1.40	0.99
2:B:2175:TRP:HB2	2:B:2263:ILE:HD11	1.43	0.99
1:A:1087:SER:HB2	1:A:1097:LYS:HD3	1.42	0.99
1:A:1087:SER:OG	1:A:1097:LYS:HD3	1.62	0.99
1:A:5:ARG:CZ	1:A:89:LEU:CD2	2.38	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1088:ALA:N	1:A:1097:LYS:NZ	2.11	0.99
1:A:578:LEU:HD21	1:A:608:TRP:CH2	1.98	0.99
1:C:781:ILE:HG22	1:C:785:LEU:HG	1.45	0.99
2:D:2279:HIS:CE1	2:D:2280:TYR:CG	2.51	0.99
1:C:1257:ARG:CG	1:C:1521:TYR:CE1	2.45	0.99
1:A:1618:LEU:CD1	2:B:1906:VAL:HG21	1.93	0.98
1:C:1087:SER:C	1:C:1097:LYS:HZ3	1.64	0.98
1:C:587:GLU:HG2	1:C:719:ILE:HG23	1.46	0.98
2:D:2085:ARG:HD2	2:D:2358:TYR:CE1	1.99	0.98
2:B:2195:TRP:O	2:D:1922:TYR:CE1	2.16	0.98
2:D:1715:ALA:CA	2:D:1719:ARG:HH21	1.77	0.98
1:C:860:LEU:HD23	1:C:869:PHE:HB2	1.40	0.98
1:A:1648:PHE:HB3	2:B:1903:ASN:O	1.62	0.98
2:B:2973:TRP:HA	2:B:3141:LEU:HD13	1.42	0.98
1:A:930:TRP:CH2	1:A:991:ILE:HD13	1.98	0.98
2:D:2086:HIS:HB3	2:D:2090:THR:HG21	1.42	0.98
2:B:2036:ARG:HH21	2:B:2038:ASP:HB2	1.27	0.98
1:A:587:GLU:HG2	1:A:719:ILE:HG23	1.45	0.98
1:C:481:VAL:HG21	1:C:486:ILE:HG23	1.43	0.98
1:A:20:GLN:HA	1:A:122:TYR:CE1	1.99	0.98
2:D:2634:LEU:HA	2:D:2676:TRP:CE3	1.98	0.98
2:D:2036:ARG:HH21	2:D:2038:ASP:HB2	1.27	0.98
1:C:1395:PHE:HB3	1:C:1400:PHE:HZ	1.25	0.98
2:B:1817:LYS:O	2:D:1676:LYS:HD3	1.61	0.98
1:A:1087:SER:CA	1:A:1097:LYS:HE2	1.87	0.98
1:C:1087:SER:HB2	1:C:1097:LYS:HD3	1.43	0.98
1:A:578:LEU:HD21	1:A:608:TRP:HH2	1.24	0.98
2:B:2500:ALA:CB	2:B:3131:SER:HA	1.94	0.98
2:B:2173:TRP:CE3	2:B:2286:ILE:HD11	1.98	0.98
2:B:2538:ILE:HD11	2:B:2577:MET:HE1	1.00	0.98
1:A:94:TRP:HD1	1:A:155:LEU:HD22	1.28	0.98
1:C:578:LEU:HD21	1:C:608:TRP:CH2	1.98	0.98
1:A:1079:GLU:CB	2:B:2456:GLU:HG3	1.93	0.98
1:A:412:PRO:CD	1:A:654:TYR:HB2	1.94	0.98
1:C:930:TRP:CH2	1:C:991:ILE:HD13	1.98	0.98
2:B:2194:VAL:O	2:D:1921:PRO:CG	2.11	0.98
1:A:1657:THR:CB	2:B:1900:SER:HB3	1.94	0.98
2:B:2403:ILE:HD12	2:B:2460:ILE:HD11	1.43	0.98
1:A:1310:VAL:HG23	1:A:1316:PHE:HA	1.47	0.97
2:B:2493:ASP:O	2:B:2495:HIS:CD2	2.17	0.97
1:C:1404:VAL:HG22	1:C:1423:LEU:HD22	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1715:ALA:CA	2:B:1719:ARG:HH21	1.77	0.97
1:C:560:ARG:HD2	1:C:609:THR:CB	1.95	0.97
1:A:1161:ILE:HD13	1:A:1198:LYS:HE2	1.44	0.97
1:C:1036:THR:HG22	1:C:1042:PHE:HD2	1.28	0.97
2:B:2083:LYS:HG2	2:B:2169:ALA:HB2	1.43	0.97
2:B:2085:ARG:HD2	2:B:2358:TYR:CE1	1.99	0.97
1:C:546:SER:HA	1:C:558:THR:HG21	1.44	0.97
1:A:546:SER:HA	1:A:558:THR:HG21	1.44	0.97
1:C:1161:ILE:HD13	1:C:1198:LYS:HE2	1.44	0.97
2:B:1715:ALA:HA	2:B:1719:ARG:HH21	0.84	0.97
1:A:411:ASP:HB3	1:A:655:ARG:HB2	1.45	0.97
1:A:408:GLY:H	1:A:653:PRO:HG2	1.29	0.97
1:C:412:PRO:CD	1:C:654:TYR:HB2	1.94	0.97
2:D:3062:ASP:HB2	2:D:3301:PHE:CE1	2.00	0.97
1:C:1189:ARG:NH2	2:D:2432:LEU:H	1.61	0.97
1:C:20:GLN:HA	1:C:122:TYR:CE1	1.99	0.97
1:C:5:ARG:CZ	1:C:89:LEU:CD2	2.38	0.97
2:D:2403:ILE:HD12	2:D:2460:ILE:HD11	1.43	0.97
1:C:1484:GLN:NE2	2:D:2065:ILE:HB	1.80	0.97
2:B:2634:LEU:HA	2:B:2676:TRP:CE3	1.98	0.97
1:C:411:ASP:HB3	1:C:655:ARG:HB2	1.45	0.97
2:B:1780:THR:HG23	2:B:1782:ARG:H	1.28	0.97
2:D:2354:LEU:HD12	2:D:2356:TYR:HE1	1.30	0.96
1:C:1334:LYS:HE2	1:C:1334:LYS:HA	1.45	0.96
1:A:1618:LEU:HD22	1:A:1648:PHE:CD1	2.00	0.96
2:B:1845:ILE:HD12	2:B:2022:TYR:CD1	2.00	0.96
2:D:2173:TRP:CE3	2:D:2286:ILE:HD11	1.98	0.96
2:B:2195:TRP:HD1	2:D:1695:SER:HB2	0.82	0.96
1:C:481:VAL:HG23	1:C:487:PHE:HA	1.47	0.96
1:C:1148:LEU:HB2	1:C:1187:TYR:CD2	2.00	0.96
1:A:694:TYR:HB2	1:A:700:TYR:CE1	2.00	0.96
1:C:1607:ILE:HD12	1:C:1611:LEU:HD11	1.47	0.96
1:C:1484:GLN:NE2	2:D:2065:ILE:HD13	1.81	0.96
2:B:1714:PRO:O	2:B:1719:ARG:NH2	1.99	0.96
1:C:94:TRP:HD1	1:C:155:LEU:HD22	1.28	0.96
1:C:408:GLY:H	1:C:653:PRO:HG2	1.29	0.96
1:C:1087:SER:OG	1:C:1097:LYS:HD3	1.62	0.96
1:C:1310:VAL:HG23	1:C:1316:PHE:HA	1.47	0.96
1:C:1156:LEU:HD13	1:C:1175:TYR:CE2	1.99	0.96
1:C:1214:TYR:CE2	1:C:1226:LYS:HD3	2.00	0.96
1:C:1079:GLU:N	2:D:2456:GLU:HG3	1.78	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:896:HIS:HE1	1:A:1033:LEU:CD2	1.79	0.96
1:C:366:VAL:HA	1:C:369:MET:HE3	1.46	0.96
1:C:226:LEU:HD23	1:C:291:LYS:HE2	1.47	0.96
1:C:694:TYR:HB2	1:C:700:TYR:CE1	2.00	0.96
1:A:23:LEU:HD23	1:A:122:TYR:HD2	1.30	0.96
1:A:1156:LEU:HD13	1:A:1175:TYR:CE2	1.99	0.96
1:C:1646:ILE:HD13	2:D:1906:VAL:HG21	1.46	0.96
1:C:1088:ALA:N	1:C:1097:LYS:NZ	2.11	0.96
1:A:514:TRP:CE3	1:A:628:LEU:HD11	2.01	0.96
2:D:2186:PHE:CZ	2:D:2289:ILE:HG12	2.01	0.95
1:C:460:GLU:HG2	1:C:465:PRO:HD2	1.45	0.95
1:C:514:TRP:HE3	1:C:628:LEU:HD11	1.28	0.95
1:A:560:ARG:HD2	1:A:609:THR:CB	1.95	0.95
2:B:3062:ASP:HB2	2:B:3301:PHE:CE1	2.00	0.95
1:A:769:MET:HA	1:A:769:MET:HE3	1.45	0.95
1:C:579:PHE:CE1	1:C:583:LEU:HD12	2.02	0.95
1:A:1239:ARG:NH1	1:A:1242:HIS:CE1	2.34	0.95
2:B:2494:HIS:CE1	2:B:3125:LYS:CE	2.48	0.95
2:D:1845:ILE:HD12	2:D:2022:TYR:CD1	2.00	0.95
1:C:1657:THR:HB	2:D:1898:SER:OG	1.67	0.95
1:A:460:GLU:HG2	1:A:465:PRO:HD2	1.45	0.95
1:A:1214:TYR:CE2	1:A:1226:LYS:HD3	2.00	0.95
2:D:2665:GLN:HE22	2:D:2844:ARG:H	1.15	0.95
1:A:1148:LEU:HB2	1:A:1187:TYR:CD2	2.00	0.95
1:C:1618:LEU:HD22	1:C:1648:PHE:CD1	1.99	0.95
1:C:1079:GLU:HB2	2:D:2456:GLU:CG	1.96	0.95
2:B:2401:PHE:CD2	2:B:2413:GLY:HA3	2.02	0.95
2:B:2494:HIS:CB	2:B:3124:VAL:HG11	1.89	0.95
1:C:1153:LYS:HG3	1:C:1176:LEU:CD2	1.97	0.95
1:C:486:ILE:HD13	1:C:662:LEU:HG	1.47	0.95
1:C:1395:PHE:HB3	1:C:1400:PHE:CZ	2.02	0.95
1:C:1189:ARG:CD	2:D:2430:ASN:O	2.14	0.95
2:B:2101:TYR:CE2	2:D:1694:SER:CA	2.50	0.95
1:A:1087:SER:C	1:A:1097:LYS:HZ3	1.67	0.95
1:C:514:TRP:CE3	1:C:628:LEU:HD11	2.01	0.95
1:A:1257:ARG:CG	1:A:1521:TYR:HE1	1.73	0.95
1:A:1395:PHE:HB3	1:A:1400:PHE:CZ	2.02	0.95
2:B:2186:PHE:CZ	2:B:2289:ILE:HG12	2.01	0.95
1:A:514:TRP:HE3	1:A:628:LEU:HD11	1.28	0.95
1:C:309:LEU:HB2	1:C:354:PHE:CD2	2.02	0.95
1:A:1555:LEU:HB2	1:A:1599:PHE:CD2	2.02	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1714:PRO:O	2:D:1719:ARG:NH2	1.99	0.94
2:D:2538:ILE:HD11	2:D:2577:MET:HE1	0.95	0.94
1:A:1239:ARG:NH1	1:A:1242:HIS:HE1	1.64	0.94
1:A:481:VAL:HG23	1:A:487:PHE:HA	1.47	0.94
2:B:3243:PRO:HG2	2:D:3354:PRO:CB	1.96	0.94
1:A:1515:TYR:CZ	1:A:1519:PHE:HB3	2.00	0.94
2:D:2670:HIS:HD1	2:D:2704:THR:HG21	1.32	0.94
2:B:2307:LYS:HE3	2:B:2369:HIS:HA	1.47	0.94
1:A:5:ARG:CD	1:A:89:LEU:CD2	2.41	0.94
2:D:1800:VAL:HG22	2:D:1803:LYS:HE2	1.49	0.94
1:C:1515:TYR:CZ	1:C:1519:PHE:HB3	2.02	0.94
1:C:1239:ARG:NH1	1:C:1242:HIS:CE1	2.34	0.94
1:C:74:VAL:CG2	1:C:273:LEU:HD23	1.98	0.94
1:C:896:HIS:HE1	1:C:1033:LEU:CD2	1.79	0.94
1:A:130:PHE:CE2	1:A:131:LEU:HG	2.03	0.94
2:B:2275:LEU:HD11	2:B:2284:ASP:HB3	1.48	0.94
2:B:1747:LYS:CE	2:D:2094:ARG:HD2	1.98	0.94
2:B:3245:ALA:HB2	2:D:3352:LYS:HZ3	1.32	0.94
1:A:486:ILE:HD13	1:A:662:LEU:HG	1.47	0.94
1:C:745:ILE:HG23	1:C:757:ALA:HB3	1.47	0.94
2:D:1780:THR:HG23	2:D:1782:ARG:H	1.28	0.94
1:C:1248:TYR:HA	1:C:1470:ARG:HD3	0.94	0.94
1:C:1142:PHE:CE1	1:C:1234:VAL:HB	2.02	0.94
2:B:3347:ALA:CB	2:D:3315:PRO:HB3	1.98	0.94
1:A:745:ILE:HG23	1:A:757:ALA:HB3	1.47	0.94
1:A:1248:TYR:HA	1:A:1470:ARG:HD3	0.96	0.94
1:A:579:PHE:CE1	1:A:583:LEU:HD12	2.02	0.94
1:C:23:LEU:HD23	1:C:122:TYR:HD2	1.30	0.94
1:C:688:PRO:HA	1:C:691:ILE:HG12	1.49	0.94
1:A:1079:GLU:HB2	2:B:2456:GLU:CG	1.97	0.94
2:D:1761:LEU:HD12	2:D:1762:PRO:HD2	1.49	0.94
1:C:130:PHE:CE2	1:C:131:LEU:HG	2.03	0.94
2:B:1800:VAL:HG22	2:B:1803:LYS:HE2	1.49	0.94
1:C:1083:PRO:HA	1:C:1086:LEU:HD13	1.50	0.94
1:A:74:VAL:CG2	1:A:273:LEU:HD23	1.98	0.94
1:C:1618:LEU:CG	2:D:1906:VAL:HG11	1.98	0.94
1:C:1010:GLN:HA	1:C:1191:PHE:HE1	1.32	0.94
2:D:2800:LEU:HD13	2:D:2828:ILE:HD11	1.50	0.94
1:A:560:ARG:HD3	1:A:609:THR:CA	1.98	0.94
1:C:5:ARG:CD	1:C:89:LEU:CD2	2.41	0.94
1:A:1153:LYS:HG3	1:A:1176:LEU:CD2	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:LEU:HB2	1:A:354:PHE:CD2	2.02	0.94
1:C:1189:ARG:NH1	2:D:2431:ARG:HA	1.82	0.93
1:C:1325:VAL:HG11	1:C:1515:TYR:HE1	1.32	0.93
1:A:1607:ILE:HD12	1:A:1611:LEU:HD11	1.47	0.93
1:A:1142:PHE:CE1	1:A:1234:VAL:HB	2.02	0.93
2:B:1874:PHE:CE1	2:B:1878:HIS:CE1	2.55	0.93
1:A:1036:THR:HG22	1:A:1042:PHE:HD2	1.28	0.93
2:B:2665:GLN:HE22	2:B:2844:ARG:H	1.14	0.93
1:A:1427:LEU:HD11	1:A:1431:LEU:HD12	1.51	0.93
2:D:2384:VAL:HG11	2:D:2441:LEU:HD12	1.50	0.93
2:D:3054:LEU:CB	2:D:3074:LEU:HD23	1.98	0.93
1:C:1657:THR:HB	2:D:1898:SER:HG	1.32	0.93
2:D:2279:HIS:CE1	2:D:2280:TYR:CE1	2.35	0.93
1:C:1239:ARG:NH1	1:C:1242:HIS:HE1	1.64	0.93
1:C:1427:LEU:HD11	1:C:1431:LEU:HD12	1.51	0.93
2:D:2401:PHE:CD2	2:D:2413:GLY:HA3	2.02	0.93
2:D:2275:LEU:HD11	2:D:2284:ASP:HB3	1.48	0.93
1:A:26:LEU:HB2	1:A:83:LYS:HD2	1.49	0.93
1:A:1365:ARG:CG	1:A:1366:GLN:OE1	2.16	0.93
2:D:1874:PHE:CE1	2:D:1878:HIS:CE1	2.55	0.93
2:B:3308:ILE:HG13	2:B:3329:MET:HB2	1.50	0.93
2:D:2390:LEU:HB2	2:D:2429:TYR:CD2	2.03	0.93
2:B:1714:PRO:HB3	2:B:1922:TYR:CE2	2.02	0.93
1:A:226:LEU:HD23	1:A:291:LYS:HE2	1.48	0.93
2:B:1922:TYR:HE1	2:D:2195:TRP:O	1.52	0.93
1:A:58:CYS:SG	1:A:60:HIS:HE1	1.91	0.93
1:C:1555:LEU:HB2	1:C:1599:PHE:HD2	1.31	0.93
2:B:2176:THR:HG22	2:B:2236:LEU:CD1	1.99	0.93
2:B:2354:LEU:HD12	2:B:2356:TYR:HE1	1.30	0.93
2:B:1714:PRO:HG3	2:B:1922:TYR:CE2	2.01	0.93
2:B:3316:PRO:HD3	2:D:3350:LYS:NZ	1.75	0.93
1:A:688:PRO:HA	1:A:691:ILE:HG12	1.49	0.93
1:C:1555:LEU:HB2	1:C:1599:PHE:CD2	2.02	0.93
1:A:1010:GLN:HA	1:A:1191:PHE:HE1	1.32	0.93
1:C:1628:ILE:CG2	1:C:1636:LEU:HB2	1.99	0.93
1:C:1365:ARG:CG	1:C:1366:GLN:OE1	2.16	0.93
2:D:1714:PRO:HB3	2:D:1922:TYR:CE2	2.02	0.93
2:B:2194:VAL:C	2:D:1921:PRO:HB2	1.76	0.93
1:C:560:ARG:HD3	1:C:609:THR:CA	1.98	0.93
2:B:3054:LEU:CB	2:B:3074:LEU:HD23	1.98	0.93
2:D:2307:LYS:HE3	2:D:2369:HIS:HA	1.47	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1568:VAL:HG22	1:A:1624:LEU:CD2	1.99	0.93
2:B:2384:VAL:HG11	2:B:2441:LEU:HD12	1.50	0.93
2:D:2176:THR:HG22	2:D:2236:LEU:CD1	1.99	0.92
2:B:2390:LEU:HB2	2:B:2429:TYR:CD2	2.03	0.92
1:A:1327:VAL:HG11	1:A:1452:PHE:CE1	2.04	0.92
1:C:1568:VAL:HG22	1:C:1624:LEU:CD2	1.99	0.92
2:B:2800:LEU:HD13	2:B:2828:ILE:HD11	1.50	0.92
2:D:3378:ALA:HB1	2:D:3383:LEU:HD12	1.51	0.92
1:C:383:LEU:CD2	1:C:391:LEU:HD22	1.99	0.92
2:D:3215:VAL:HG21	2:D:3233:PHE:CZ	2.05	0.92
2:D:2157:PHE:HB2	2:D:2288:PHE:CE2	2.03	0.92
2:B:2240:ALA:HA	2:B:2259:MET:HE2	1.49	0.92
1:C:58:CYS:SG	1:C:60:HIS:HE1	1.91	0.92
2:D:3348:MET:SD	2:D:3352:LYS:HB3	2.10	0.92
1:C:1319:TRP:HD1	1:C:1490:LEU:HD11	1.32	0.92
1:C:1515:TYR:OH	1:C:1521:TYR:CG	2.21	0.92
1:A:748:LYS:HE2	1:A:797:GLU:OE1	1.69	0.92
1:C:748:LYS:HE2	1:C:797:GLU:OE1	1.69	0.92
1:A:1555:LEU:HB2	1:A:1599:PHE:HD2	1.31	0.92
1:A:878:GLU:HG2	1:A:1034:ARG:HB2	1.52	0.92
2:B:2502:HIS:HD2	2:B:2765:ASN:HA	1.34	0.92
1:A:552:GLU:HG3	1:A:554:ASN:H	1.33	0.92
2:B:2497:SER:CB	2:B:3322:ARG:CZ	2.47	0.92
2:D:2240:ALA:HA	2:D:2259:MET:CE	2.00	0.92
2:B:3291:ILE:HD11	2:B:3314:LEU:HD13	1.51	0.92
2:B:3348:MET:SD	2:B:3352:LYS:HB3	2.10	0.92
1:C:329:ASP:OD2	1:C:330:ARG:NH1	2.03	0.92
2:B:2279:HIS:CE1	2:B:2280:TYR:CE1	2.35	0.92
1:A:1328:GLU:OE1	1:A:1521:TYR:CD2	2.22	0.92
1:A:1325:VAL:HG11	1:A:1515:TYR:HE1	1.32	0.92
2:D:2942:ILE:HD11	2:D:2980:GLN:CG	2.00	0.92
1:A:383:LEU:CD2	1:A:391:LEU:HD22	1.99	0.92
2:B:2255:GLN:HA	2:B:2433:PHE:HE1	1.34	0.92
2:B:2157:PHE:HB2	2:B:2288:PHE:CE2	2.03	0.92
1:C:1515:TYR:CE2	1:C:1521:TYR:CB	2.53	0.92
1:C:1328:GLU:OE1	1:C:1521:TYR:CD2	2.22	0.92
1:C:26:LEU:HB2	1:C:83:LYS:HD2	1.49	0.92
2:D:1757:TRP:CZ3	2:D:1873:LEU:CD1	2.53	0.92
1:A:412:PRO:HD3	1:A:654:TYR:HB2	1.52	0.92
1:A:329:ASP:OD2	1:A:330:ARG:NH1	2.03	0.92
1:C:435:GLU:OE2	1:C:509:ILE:HD11	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2497:SER:OG	2:B:3322:ARG:NH2	2.03	0.92
2:B:2670:HIS:HD1	2:B:2704:THR:HG21	1.32	0.92
2:B:1761:LEU:HD12	2:B:1762:PRO:HD2	1.49	0.92
2:D:1714:PRO:HG3	2:D:1922:TYR:CE2	2.01	0.92
1:C:1087:SER:CA	1:C:1097:LYS:NZ	2.26	0.92
1:A:241:LEU:HD11	1:A:265:ALA:CA	2.00	0.92
1:A:549:ILE:CG2	1:A:552:GLU:HG2	2.00	0.92
1:C:241:LEU:HD11	1:C:265:ALA:CA	2.00	0.92
1:A:1657:THR:HB	2:B:1900:SER:HB3	1.52	0.92
2:D:2140:ILE:HD13	2:D:2145:THR:CB	2.00	0.91
2:B:2140:ILE:HG12	2:B:2143:MET:HB2	1.53	0.91
1:A:1257:ARG:HB2	1:A:1521:TYR:HD1	1.31	0.91
2:B:1729:THR:CG2	2:B:1913:LEU:HD21	2.00	0.91
1:C:1249:GLN:HG3	1:C:1476:TYR:HB3	1.50	0.91
1:C:464:LEU:HD12	1:C:551:PHE:CZ	2.05	0.91
1:A:19:LEU:HD21	1:A:123:TRP:CZ2	2.05	0.91
1:A:1319:TRP:HD1	1:A:1490:LEU:HD11	1.32	0.91
1:A:464:LEU:HD12	1:A:551:PHE:CZ	2.05	0.91
1:C:1568:VAL:HG22	1:C:1624:LEU:HD22	1.53	0.91
1:C:552:GLU:HG3	1:C:554:ASN:H	1.33	0.91
1:C:186:VAL:HG11	1:C:205:ILE:CD1	2.00	0.91
1:A:1549:VAL:HG13	1:A:1607:ILE:CG1	2.01	0.91
2:B:3215:VAL:HG21	2:B:3233:PHE:CZ	2.05	0.91
2:B:3378:ALA:HB1	2:B:3383:LEU:HD12	1.52	0.91
1:A:1628:ILE:CG2	1:A:1636:LEU:HB2	1.99	0.91
1:A:1083:PRO:HA	1:A:1086:LEU:HD13	1.50	0.91
2:D:3308:ILE:HG13	2:D:3329:MET:HB2	1.50	0.91
1:C:412:PRO:HD3	1:C:654:TYR:HB2	1.52	0.91
1:C:1249:GLN:C	1:C:1470:ARG:NH2	2.23	0.91
1:A:1249:GLN:HG3	1:A:1476:TYR:HB3	1.50	0.91
1:A:1515:TYR:CE2	1:A:1521:TYR:CB	2.52	0.91
1:A:498:VAL:CG1	1:A:511:ILE:CD1	2.48	0.91
1:A:411:ASP:CB	1:A:655:ARG:H	1.84	0.91
2:B:1921:PRO:HB2	2:D:2195:TRP:HA	1.53	0.91
1:C:498:VAL:HG13	1:C:511:ILE:CD1	2.00	0.91
1:C:698:LEU:HD12	1:C:700:TYR:HB3	1.52	0.91
1:A:186:VAL:HG11	1:A:205:ILE:CD1	2.00	0.91
1:C:1160:ASN:HD22	1:C:1168:CYS:HB3	1.35	0.91
2:B:1817:LYS:HA	2:D:1676:LYS:HE2	1.52	0.91
1:C:791:THR:HG23	1:C:794:GLY:H	1.35	0.91
2:B:2140:ILE:HD13	2:B:2145:THR:CB	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1249:GLN:C	1:A:1470:ARG:NH2	2.24	0.91
1:A:1515:TYR:CE2	1:A:1521:TYR:O	2.24	0.91
1:A:435:GLU:OE2	1:A:509:ILE:HD11	1.70	0.91
1:C:1549:VAL:HG13	1:C:1607:ILE:CG1	2.01	0.91
1:C:878:GLU:HG2	1:C:1034:ARG:HB2	1.52	0.91
1:C:1557:ASN:HB3	1:C:1597:PHE:CZ	2.06	0.91
2:D:2140:ILE:HG12	2:D:2143:MET:HB2	1.53	0.91
1:C:1327:VAL:HG11	1:C:1452:PHE:CE1	2.04	0.91
1:A:1657:THR:OG1	2:B:1900:SER:HB3	1.71	0.91
1:C:498:VAL:CG1	1:C:511:ILE:CD1	2.48	0.91
2:D:3291:ILE:HD11	2:D:3314:LEU:HD13	1.51	0.91
1:A:1568:VAL:HG22	1:A:1624:LEU:HD22	1.53	0.91
2:B:3223:THR:HG23	2:B:3224:ASP:H	1.35	0.91
2:B:2240:ALA:HA	2:B:2259:MET:CE	2.00	0.90
1:A:498:VAL:HG13	1:A:511:ILE:CD1	2.00	0.90
1:C:19:LEU:HD21	1:C:123:TRP:CZ2	2.05	0.90
2:B:3178:ASN:HD22	2:B:3183:ASN:HA	1.35	0.90
2:B:1757:TRP:CZ3	2:B:1873:LEU:CD1	2.53	0.90
1:A:895:VAL:HG21	1:A:900:VAL:HB	1.51	0.90
2:B:2942:ILE:HD11	2:B:2980:GLN:CG	2.00	0.90
2:B:2175:TRP:CH2	2:B:2224:LEU:HB2	2.06	0.90
2:B:1707:LEU:CD2	2:B:1709:PRO:HD2	2.01	0.90
2:D:1757:TRP:HE3	2:D:1873:LEU:HD11	1.30	0.90
1:A:791:THR:HG23	1:A:794:GLY:H	1.36	0.90
1:A:1442:LEU:HA	1:A:1589:LEU:HD11	1.53	0.90
2:B:1757:TRP:HE3	2:B:1873:LEU:HD11	1.29	0.90
2:D:1729:THR:CG2	2:D:1913:LEU:HD21	2.00	0.90
1:A:466:ALA:HB2	1:A:767:LYS:CD	2.00	0.90
1:A:560:ARG:NH2	1:A:617:MET:HG2	1.83	0.90
2:D:2140:ILE:HG23	2:D:2146:PHE:HA	1.54	0.90
1:A:1156:LEU:HD13	1:A:1175:TYR:CZ	2.07	0.90
1:C:1189:ARG:NH2	2:D:2432:LEU:N	2.17	0.90
2:B:2175:TRP:CB	2:B:2263:ILE:HD11	2.01	0.90
2:D:3178:ASN:HD22	2:D:3183:ASN:HA	1.35	0.90
1:A:186:VAL:HG11	1:A:205:ILE:HD13	1.54	0.90
1:C:1079:GLU:CB	2:D:2456:GLU:OE2	2.19	0.90
1:A:1160:ASN:HD22	1:A:1168:CYS:HB3	1.35	0.90
2:D:1707:LEU:HD22	2:D:1709:PRO:CD	2.02	0.90
1:C:549:ILE:CG2	1:C:552:GLU:HG2	2.01	0.90
1:C:560:ARG:NH2	1:C:617:MET:HG3	1.85	0.90
1:A:163:LEU:HD12	1:A:294:LEU:CD1	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:186:VAL:HG11	1:C:205:ILE:HD13	1.54	0.90
2:B:2494:HIS:CD2	2:B:3124:VAL:O	2.25	0.90
1:C:1216:VAL:CG2	1:C:1224:LEU:HB2	2.02	0.90
2:B:1909:MET:HE1	2:B:1938:PHE:CE2	2.06	0.90
1:A:366:VAL:HA	1:A:369:MET:HE3	1.51	0.90
2:D:2255:GLN:HA	2:D:2433:PHE:HE1	1.34	0.90
1:C:1087:SER:CA	1:C:1097:LYS:HE2	1.87	0.90
1:A:427:ASN:HB3	1:A:513:TYR:CZ	2.07	0.90
1:A:1216:VAL:CG2	1:A:1224:LEU:HB2	2.02	0.90
1:C:411:ASP:CB	1:C:655:ARG:H	1.84	0.90
2:B:3020:PHE:CZ	2:B:3021:LYS:HE3	2.07	0.90
2:D:2577:MET:HG3	2:D:2698:TRP:CE2	2.07	0.90
1:A:698:LEU:HD12	1:A:700:TYR:HB3	1.52	0.90
1:C:95:THR:CA	1:C:155:LEU:HD23	2.02	0.90
1:C:853:LEU:HB3	1:C:959:TRP:CZ2	2.07	0.90
2:B:2634:LEU:HD12	2:B:2676:TRP:HE3	1.37	0.89
2:B:2498:SER:O	2:B:3397:ASP:OD1	1.90	0.89
1:C:1515:TYR:OH	1:C:1521:TYR:CB	2.20	0.89
1:A:1249:GLN:CB	1:A:1470:ARG:HH21	1.85	0.89
1:A:425:ARG:HD2	1:A:702:TYR:CE1	2.08	0.89
1:C:163:LEU:HD12	1:C:294:LEU:CD1	2.02	0.89
1:A:1549:VAL:HG11	1:A:1611:LEU:HD12	1.55	0.89
2:B:2526:VAL:HG22	2:B:2584:HIS:CD2	2.07	0.89
1:C:1409:GLU:HB2	1:C:1543:ARG:HH21	1.37	0.89
2:D:2233:HIS:HA	2:D:2237:LEU:HD23	1.55	0.89
1:C:1141:ARG:HG3	1:C:1143:PHE:HE1	1.37	0.89
2:D:2224:LEU:HD23	2:D:2225:PHE:H	1.36	0.89
2:B:2101:TYR:HD1	2:D:1693:HIS:HB3	1.09	0.89
1:A:1468:LEU:CD2	1:A:1533:ILE:HG23	2.03	0.89
2:B:1707:LEU:HD22	2:B:1709:PRO:CD	2.02	0.89
1:A:1087:SER:CA	1:A:1097:LYS:NZ	2.25	0.89
1:C:1515:TYR:CE2	1:C:1521:TYR:O	2.24	0.89
1:C:1468:LEU:CD2	1:C:1533:ILE:HG23	2.03	0.89
1:C:425:ARG:HD2	1:C:702:TYR:CE1	2.07	0.89
1:A:95:THR:CA	1:A:155:LEU:HD23	2.02	0.89
1:A:1515:TYR:CD1	1:A:1519:PHE:CB	2.56	0.89
1:A:1557:ASN:HB3	1:A:1597:PHE:CZ	2.06	0.89
2:D:2221:GLN:HG2	2:D:2266:LEU:CD1	2.02	0.89
2:D:2263:ILE:HD12	2:D:2290:HIS:CE1	2.07	0.89
1:C:724:GLN:HE22	1:C:828:LYS:HE2	0.73	0.89
2:B:1985:SER:OG	2:B:2050:TYR:OH	1.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:94:TRP:CZ2	1:C:185:LEU:HD22	2.08	0.89
1:C:23:LEU:HB3	1:C:122:TYR:CD2	2.08	0.89
1:C:629:PHE:CE2	1:C:633:HIS:CE1	2.60	0.89
1:A:853:LEU:HB3	1:A:959:TRP:CZ2	2.07	0.89
2:B:1817:LYS:CA	2:D:1676:LYS:HE2	2.02	0.89
2:D:3086:GLU:HB2	2:D:3089:SER:HB3	1.55	0.89
1:A:1141:ARG:HG3	1:A:1143:PHE:HE1	1.37	0.89
2:D:3020:PHE:CZ	2:D:3021:LYS:HE3	2.07	0.89
2:D:2124:LEU:HB3	2:D:2279:HIS:HB2	1.54	0.89
2:D:2103:LEU:HD23	2:D:2161:LEU:HD11	1.54	0.89
2:B:2140:ILE:HG23	2:B:2146:PHE:HA	1.54	0.89
2:D:2526:VAL:HG22	2:D:2584:HIS:CD2	2.07	0.89
1:A:1192:LYS:NZ	1:A:1235:ILE:HD12	1.87	0.89
2:D:2175:TRP:CB	2:D:2263:ILE:HD11	2.01	0.89
1:C:1442:LEU:HA	1:C:1589:LEU:HD11	1.53	0.89
1:A:23:LEU:HB3	1:A:122:TYR:CD2	2.08	0.89
1:A:629:PHE:CE2	1:A:633:HIS:CE1	2.60	0.89
1:C:1235:ILE:HA	2:D:2319:VAL:HB	1.55	0.89
1:A:248:PHE:CD1	1:A:258:THR:HG21	2.07	0.89
1:C:427:ASN:HB3	1:C:513:TYR:CZ	2.07	0.89
1:A:1662:THR:HB	2:B:1893:ARG:HB2	1.52	0.89
2:B:1671:ILE:HD11	2:B:1769:LEU:HD13	1.54	0.89
1:C:995:VAL:HG21	1:C:1121:PHE:CZ	2.07	0.89
1:C:1249:GLN:CA	1:C:1470:ARG:HH21	1.85	0.89
1:A:1242:HIS:HB3	1:A:1476:TYR:HE1	1.37	0.89
1:A:1515:TYR:OH	1:A:1521:TYR:CB	2.20	0.89
2:B:3149:VAL:HG23	2:B:3151:ASN:N	1.88	0.89
1:A:995:VAL:HG21	1:A:1121:PHE:CZ	2.07	0.89
2:D:2175:TRP:CH2	2:D:2224:LEU:HB2	2.06	0.89
2:B:2279:HIS:CE1	2:B:2280:TYR:CD1	2.61	0.89
2:B:2263:ILE:HD12	2:B:2290:HIS:CE1	2.07	0.89
1:A:560:ARG:NH2	1:A:617:MET:HG3	1.85	0.89
1:C:1156:LEU:HD13	1:C:1175:TYR:CZ	2.06	0.89
1:C:1613:LYS:O	2:D:2779:LYS:HE2	1.73	0.89
1:C:782:THR:CG2	1:C:786:LYS:HE2	2.02	0.89
1:C:1192:LYS:NZ	1:C:1235:ILE:HD12	1.87	0.89
1:C:248:PHE:CD1	1:C:258:THR:HG21	2.07	0.89
2:D:2279:HIS:CB	2:D:2423:LYS:HE2	2.03	0.88
2:D:1985:SER:OG	2:D:2050:TYR:OH	1.91	0.88
1:A:26:LEU:CB	1:A:83:LYS:HD2	2.03	0.88
2:B:3086:GLU:HB2	2:B:3089:SER:HB3	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3223:THR:HG23	2:D:3224:ASP:H	1.35	0.88
2:B:2577:MET:HG3	2:B:2698:TRP:CE2	2.08	0.88
1:A:1515:TYR:OH	1:A:1521:TYR:CG	2.25	0.88
2:D:1909:MET:CE	2:D:1938:PHE:HE2	1.79	0.88
1:C:895:VAL:HG23	1:C:898:MET:CE	2.04	0.88
1:C:895:VAL:HG21	1:C:900:VAL:HB	1.51	0.88
2:D:3079:HIS:HA	2:D:3090:MET:HE3	1.55	0.88
1:C:177:LEU:HD12	1:C:358:TYR:CE1	2.08	0.88
2:B:2221:GLN:HG2	2:B:2266:LEU:CD1	2.02	0.88
2:B:2194:VAL:O	2:D:1921:PRO:HG2	1.73	0.88
2:B:2195:TRP:HE3	2:D:1922:TYR:CD1	1.91	0.88
1:C:1476:TYR:CE2	1:C:1477:ARG:CB	2.57	0.88
1:C:183:HIS:ND1	1:C:194:MET:HG2	1.88	0.88
1:C:273:LEU:HD22	1:C:275:TYR:HE2	1.37	0.88
2:D:1766:LEU:HB3	2:D:1767:PRO:HD2	1.55	0.88
2:D:2777:THR:HG23	2:D:2780:LYS:H	1.38	0.88
2:D:3209:ILE:H	2:D:3209:ILE:HD13	1.38	0.88
1:A:250:TRP:CE3	1:A:252:ASP:HB2	2.08	0.88
1:A:177:LEU:HD12	1:A:358:TYR:CE1	2.08	0.88
2:B:2103:LEU:HD23	2:B:2161:LEU:HD11	1.54	0.88
1:A:1274:ARG:HA	1:A:1374:PHE:HE1	1.36	0.88
2:D:2279:HIS:CE1	2:D:2280:TYR:CD1	2.61	0.88
1:C:1242:HIS:HB3	1:C:1476:TYR:HE1	1.37	0.88
1:A:273:LEU:HD22	1:A:275:TYR:HE2	1.37	0.88
1:A:1409:GLU:HB2	1:A:1543:ARG:HH21	1.37	0.88
1:C:407:LYS:HE3	1:C:652:LYS:CG	2.04	0.88
2:D:2697:PHE:CD1	2:D:2701:HIS:CE1	2.51	0.88
1:A:1515:TYR:HE2	1:A:1521:TYR:CA	1.86	0.88
2:B:1766:LEU:HB3	2:B:1767:PRO:HD2	1.55	0.88
1:A:782:THR:CG2	1:A:786:LYS:HE2	2.02	0.88
2:B:2500:ALA:HB1	2:B:3131:SER:HA	1.53	0.88
1:C:1274:ARG:HA	1:C:1374:PHE:HE1	1.36	0.88
1:C:1506:HIS:CE1	1:C:1518:SER:HB3	2.09	0.88
2:B:2697:PHE:CD1	2:B:2701:HIS:CE1	2.51	0.88
1:A:895:VAL:HG23	1:A:898:MET:CE	2.03	0.88
2:D:1988:VAL:CG1	2:D:2047:ILE:HG12	2.04	0.88
2:D:2345:PRO:HA	2:D:2348:VAL:HG13	1.55	0.88
1:C:560:ARG:NH2	1:C:617:MET:HG2	1.84	0.88
1:A:1506:HIS:CE1	1:A:1518:SER:HB3	2.09	0.88
2:D:1671:ILE:HD11	2:D:1769:LEU:HD13	1.54	0.88
1:C:895:VAL:CG1	1:C:901:PHE:HA	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2634:LEU:HD12	2:D:2676:TRP:HE3	1.37	0.88
2:B:3206:LEU:HD22	2:B:3206:LEU:H	1.38	0.88
1:C:1091:ASN:HB3	1:C:1097:LYS:HE2	1.56	0.88
2:B:1843:PHE:HE1	2:B:1884:ILE:HG13	1.39	0.88
1:C:746:PHE:CE2	1:C:799:THR:HB	2.09	0.88
1:C:466:ALA:HB2	1:C:767:LYS:CD	2.00	0.88
1:A:22:ALA:HB1	1:A:83:LYS:HB3	1.56	0.88
1:C:26:LEU:CB	1:C:83:LYS:HD2	2.03	0.88
1:C:1274:ARG:CD	1:C:1365:ARG:HH22	1.87	0.87
1:C:435:GLU:OE2	1:C:509:ILE:CD1	2.23	0.87
1:A:1515:TYR:HD1	1:A:1519:PHE:CD2	1.92	0.87
2:B:1745:LEU:HD12	2:B:1754:LEU:HD21	1.56	0.87
2:D:1707:LEU:HD22	2:D:1709:PRO:HD2	1.56	0.87
1:C:1257:ARG:HG3	1:C:1521:TYR:HE1	1.05	0.87
1:A:1249:GLN:CA	1:A:1470:ARG:HH21	1.86	0.87
2:D:1843:PHE:HE1	2:D:1884:ILE:HG13	1.39	0.87
1:A:1659:ASP:OD2	2:B:1942:LYS:HE3	1.74	0.87
2:D:1745:LEU:HD12	2:D:1754:LEU:HD21	1.56	0.87
1:C:1248:TYR:HB3	1:C:1470:ARG:HD2	1.53	0.87
1:A:94:TRP:CZ2	1:A:185:LEU:HD22	2.08	0.87
1:C:70:ARG:HD3	1:C:267:LEU:HD11	1.57	0.87
1:C:688:PRO:HA	1:C:691:ILE:CG1	2.04	0.87
2:B:1745:LEU:HB3	2:B:1750:ALA:HB2	1.57	0.87
2:B:2124:LEU:HB3	2:B:2279:HIS:HB2	1.54	0.87
2:B:2100:LYS:HA	2:B:2204:PHE:CE1	2.09	0.87
2:D:1707:LEU:CD2	2:D:1709:PRO:HD2	2.01	0.87
1:A:1091:ASN:O	1:A:1097:LYS:HE3	1.75	0.87
1:A:1249:GLN:NE2	1:A:1476:TYR:CE1	2.43	0.87
2:B:2224:LEU:HD23	2:B:2225:PHE:H	1.36	0.87
2:B:2279:HIS:CB	2:B:2423:LYS:HE2	2.03	0.87
1:A:724:GLN:HE22	1:A:828:LYS:HE2	0.72	0.87
1:C:1515:TYR:HE2	1:C:1521:TYR:CA	1.87	0.87
2:D:1985:SER:HB3	2:D:2050:TYR:CZ	2.08	0.87
2:B:1985:SER:HB3	2:B:2050:TYR:CZ	2.08	0.87
1:A:688:PRO:HA	1:A:691:ILE:CG1	2.04	0.87
1:A:945:LYS:HG2	1:A:956:HIS:HA	1.56	0.87
2:D:2124:LEU:CD2	2:D:2125:PRO:HA	2.04	0.87
1:A:1257:ARG:CB	1:A:1521:TYR:CD1	2.57	0.87
1:A:1274:ARG:CD	1:A:1365:ARG:HH22	1.87	0.87
1:A:1657:THR:HA	2:B:1901:GLU:OE1	1.74	0.87
2:B:3346:THR:HA	2:B:3349:PHE:CD2	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3340:LEU:HB3	2:B:3377:THR:HG22	1.56	0.87
2:B:2714:LEU:CD2	2:B:2778:ILE:HG23	2.04	0.87
1:A:860:LEU:CD2	1:A:869:PHE:HB2	2.04	0.87
1:A:183:HIS:ND1	1:A:194:MET:HG2	1.88	0.87
1:C:22:ALA:HB1	1:C:83:LYS:HB3	1.56	0.87
2:D:3346:THR:HA	2:D:3349:PHE:CD2	2.08	0.87
2:D:3149:VAL:HG23	2:D:3151:ASN:N	1.88	0.87
1:A:324:ILE:HG12	1:A:371:MET:SD	2.15	0.87
2:D:2687:THR:HG21	2:D:2690:TYR:HD2	1.39	0.87
1:A:248:PHE:HB3	1:A:258:THR:HG22	1.57	0.87
2:D:1745:LEU:HB3	2:D:1750:ALA:HB2	1.57	0.87
1:C:250:TRP:CE3	1:C:252:ASP:HB2	2.08	0.87
1:C:246:GLU:HB3	1:C:247:PRO:HA	1.55	0.87
1:C:860:LEU:CD2	1:C:869:PHE:HB2	2.03	0.87
1:A:1148:LEU:HB2	1:A:1187:TYR:HD2	1.37	0.87
1:A:895:VAL:CG1	1:A:901:PHE:HA	2.04	0.87
1:A:746:PHE:CE2	1:A:799:THR:HB	2.09	0.87
1:A:1091:ASN:HB3	1:A:1097:LYS:HE2	1.56	0.87
1:A:1099:HIS:NE2	1:A:1111:ASN:HB3	1.90	0.87
2:D:3216:LYS:HE2	2:D:3229:TYR:CD2	2.10	0.87
1:C:1242:HIS:NE2	1:C:1477:ARG:NH2	2.23	0.86
2:B:3062:ASP:HB2	2:B:3301:PHE:HE1	1.40	0.86
2:B:1973:VAL:CG2	2:B:2026:ILE:HG13	2.04	0.86
2:B:3079:HIS:HA	2:B:3090:MET:HE3	1.55	0.86
1:C:600:ILE:HG21	1:C:777:PHE:CE1	2.10	0.86
1:C:1549:VAL:HG11	1:C:1611:LEU:HD12	1.55	0.86
2:D:2100:LYS:HA	2:D:2204:PHE:CE1	2.09	0.86
2:B:2244:LEU:HD11	2:B:2304:LEU:HD22	1.56	0.86
1:C:1091:ASN:O	1:C:1097:LYS:HE3	1.75	0.86
1:C:1249:GLN:CB	1:C:1470:ARG:HH21	1.86	0.86
1:A:1248:TYR:HB3	1:A:1470:ARG:HD2	1.53	0.86
1:A:1476:TYR:CE2	1:A:1477:ARG:CB	2.57	0.86
1:C:1099:HIS:NE2	1:C:1111:ASN:HB3	1.90	0.86
2:B:3216:LYS:HE2	2:B:3229:TYR:CD2	2.10	0.86
2:B:3248:ARG:NE	2:B:3320:VAL:HG21	1.89	0.86
2:B:3320:VAL:HG12	2:B:3321:LYS:H	1.41	0.86
2:B:3387:ASN:ND2	2:B:3389:LEU:HG	1.89	0.86
1:A:407:LYS:HE3	1:A:652:LYS:CG	2.04	0.86
1:C:1249:GLN:NE2	1:C:1476:TYR:CE1	2.43	0.86
1:C:1365:ARG:HG2	1:C:1366:GLN:H	1.41	0.86
1:A:70:ARG:HD3	1:A:267:LEU:HD11	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:435:GLU:OE2	1:A:509:ILE:CD1	2.23	0.86
2:D:3248:ARG:NE	2:D:3320:VAL:HG21	1.89	0.86
2:D:3306:ILE:HG22	2:D:3329:MET:HG2	1.57	0.86
2:D:3318:VAL:HG12	2:D:3320:VAL:CG2	2.05	0.86
2:D:3366:MET:HG2	2:D:3367:TYR:H	1.40	0.86
2:B:2233:HIS:HA	2:B:2237:LEU:HD23	1.55	0.86
1:A:928:TRP:CE3	1:A:1041:LEU:HD11	2.10	0.86
1:C:769:MET:HE3	1:C:769:MET:HA	1.58	0.86
1:A:1242:HIS:NE2	1:A:1477:ARG:NH2	2.23	0.86
1:C:58:CYS:SG	1:C:60:HIS:ND1	2.49	0.86
2:D:3340:LEU:HB3	2:D:3377:THR:HG22	1.56	0.86
2:B:1988:VAL:CG1	2:B:2047:ILE:HG12	2.04	0.86
2:B:2777:THR:HG23	2:B:2780:LYS:H	1.38	0.86
2:B:3209:ILE:HD13	2:B:3209:ILE:H	1.39	0.86
2:D:2538:ILE:HD13	2:D:2577:MET:SD	1.44	0.86
1:C:1249:GLN:CA	1:C:1470:ARG:NH2	2.38	0.86
2:D:1973:VAL:CG2	2:D:2026:ILE:HG13	2.04	0.86
1:C:319:PHE:HD2	1:C:337:LYS:HE3	1.41	0.86
1:A:58:CYS:SG	1:A:60:HIS:ND1	2.49	0.86
2:B:1985:SER:HB3	2:B:2050:TYR:HE2	0.91	0.86
1:A:1515:TYR:HE2	1:A:1521:TYR:CB	1.88	0.86
2:D:3387:ASN:ND2	2:D:3389:LEU:HG	1.89	0.86
1:C:1228:LEU:HD23	1:C:1229:PHE:H	1.41	0.86
1:C:928:TRP:CE3	1:C:1041:LEU:HD11	2.10	0.86
2:D:3160:LEU:HD13	2:D:3162:ASN:H	1.38	0.86
2:D:2106:LEU:HD11	2:D:2161:LEU:CD1	2.06	0.86
2:D:2221:GLN:HG2	2:D:2266:LEU:HD13	1.58	0.86
2:B:2195:TRP:CE3	2:D:1922:TYR:CD1	2.63	0.86
2:B:2494:HIS:HB3	2:B:3124:VAL:CG1	2.04	0.86
2:D:2401:PHE:HD2	2:D:2413:GLY:HA3	1.41	0.86
1:C:324:ILE:HG12	1:C:371:MET:SD	2.15	0.86
2:D:3206:LEU:HD22	2:D:3206:LEU:H	1.38	0.86
2:D:2254:VAL:HG12	2:D:2433:PHE:CD1	2.09	0.86
2:D:2267:VAL:HG21	2:D:2275:LEU:HG	1.57	0.86
2:D:1706:ALA:HB1	2:D:1866:HIS:HA	1.56	0.86
2:D:2538:ILE:HD12	2:D:2577:MET:CG	2.06	0.86
1:C:1148:LEU:HB2	1:C:1187:TYR:HD2	1.37	0.86
1:A:600:ILE:HG21	1:A:777:PHE:CE1	2.10	0.86
2:B:2687:THR:HG21	2:B:2690:TYR:HD2	1.39	0.86
2:D:2636:ASN:ND2	2:D:2645:PHE:HB2	1.91	0.86
2:B:2761:TYR:HA	2:B:2764:PHE:CD1	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:PHE:HD2	1:A:337:LYS:HE3	1.41	0.86
2:B:1745:LEU:HD12	2:B:1754:LEU:CD2	2.06	0.86
2:B:2267:VAL:HG21	2:B:2275:LEU:HG	1.57	0.86
1:C:1091:ASN:HB3	1:C:1097:LYS:CE	2.06	0.86
1:A:80:LEU:HB3	1:A:85:ARG:HB2	1.57	0.86
1:C:516:TRP:CZ2	1:C:566:LEU:HG	2.11	0.86
1:C:1515:TYR:CD1	1:C:1519:PHE:CB	2.57	0.86
1:C:239:GLU:OE2	1:C:819:SER:HB3	1.76	0.86
1:A:1657:THR:HB	2:B:1901:GLU:OE1	1.76	0.86
2:B:2636:ASN:ND2	2:B:2645:PHE:HB2	1.91	0.86
1:C:997:LEU:O	1:C:1000:GLU:HG2	1.76	0.86
2:D:2244:LEU:HD11	2:D:2304:LEU:HD22	1.55	0.85
2:B:2538:ILE:HD13	2:B:2577:MET:SD	1.44	0.85
1:A:1622:PHE:CZ	1:A:1646:ILE:HD12	2.10	0.85
2:B:3347:ALA:CB	2:D:3315:PRO:CB	2.52	0.85
1:A:1033:LEU:HB3	1:A:1179:ASP:HB2	1.56	0.85
1:A:1628:ILE:HG23	1:A:1636:LEU:HB2	1.57	0.85
2:D:2155:LEU:HD21	2:D:2354:LEU:HD13	1.56	0.85
2:B:2155:LEU:HD21	2:B:2354:LEU:HD13	1.56	0.85
2:B:2209:VAL:CG1	2:B:2212:HIS:HB2	2.06	0.85
2:B:2279:HIS:NE2	2:B:2280:TYR:CD2	2.35	0.85
2:B:2194:VAL:O	2:D:1921:PRO:HB2	1.72	0.85
2:B:2538:ILE:HD12	2:B:2577:MET:CG	2.06	0.85
1:A:179:HIS:ND1	1:A:213:VAL:HG11	1.91	0.85
1:C:1078:ARG:CB	2:D:2457:PRO:CD	2.53	0.85
2:B:2680:LEU:HD12	2:B:2681:THR:N	1.91	0.85
1:C:1605:LEU:HD13	1:C:1606:ASP:N	1.91	0.85
2:B:1817:LYS:O	2:D:1676:LYS:CD	2.24	0.85
1:C:1628:ILE:HG23	1:C:1636:LEU:HB2	1.57	0.85
1:C:384:PHE:CZ	1:C:388:GLY:HA2	2.11	0.85
1:A:384:PHE:CZ	1:A:388:GLY:HA2	2.11	0.85
1:C:1254:SER:OG	1:C:1522:ALA:CB	2.24	0.85
1:A:1463:ALA:HA	1:A:1466:GLN:NE2	1.91	0.85
2:D:3062:ASP:HB2	2:D:3301:PHE:HE1	1.40	0.85
2:B:2106:LEU:HD11	2:B:2161:LEU:CD1	2.06	0.85
1:A:1091:ASN:HB3	1:A:1097:LYS:CE	2.06	0.85
1:A:60:HIS:CD2	1:A:65:PHE:HE2	1.94	0.85
1:A:1249:GLN:CA	1:A:1470:ARG:NH2	2.39	0.85
1:C:26:LEU:CA	1:C:83:LYS:HD2	2.07	0.85
2:B:3328:PHE:HE1	2:B:3364:GLY:HA2	1.42	0.85
1:C:1033:LEU:HB3	1:C:1179:ASP:HB2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2794:THR:CG2	2:B:2847:ILE:HG13	2.06	0.85
1:C:1406:TYR:HA	1:C:1543:ARG:HH22	1.42	0.85
2:B:1676:LYS:HD3	2:D:1817:LYS:O	1.74	0.85
2:B:2596:THR:HG22	2:B:2774:HIS:HE1	1.41	0.85
2:D:2209:VAL:CG1	2:D:2212:HIS:HB2	2.06	0.85
2:D:2279:HIS:HB3	2:D:2423:LYS:CE	2.06	0.85
1:A:1365:ARG:HG2	1:A:1366:GLN:H	1.41	0.85
1:A:443:PHE:HA	1:A:505:ARG:HH11	1.41	0.85
1:C:945:LYS:HG2	1:C:956:HIS:HA	1.56	0.85
2:D:2680:LEU:HD12	2:D:2681:THR:N	1.91	0.85
2:B:1706:ALA:HB1	2:B:1866:HIS:HA	1.56	0.85
1:A:239:GLU:OE2	1:A:819:SER:HB3	1.76	0.85
1:A:1515:TYR:CZ	1:A:1519:PHE:CB	2.58	0.85
1:C:1102:PRO:O	1:C:1105:VAL:HG22	1.77	0.85
1:A:748:LYS:CE	1:A:797:GLU:OE1	2.25	0.85
1:A:373:LEU:HD12	1:A:403:HIS:CE1	2.11	0.85
1:A:246:GLU:HB3	1:A:247:PRO:HA	1.55	0.85
1:C:443:PHE:HA	1:C:505:ARG:HH11	1.41	0.85
2:B:2345:PRO:HA	2:B:2348:VAL:HG13	1.55	0.85
2:B:2354:LEU:HD12	2:B:2356:TYR:CE1	2.12	0.85
2:B:1707:LEU:HD22	2:B:1709:PRO:HD2	1.56	0.85
2:B:3318:VAL:HG12	2:B:3320:VAL:CG2	2.05	0.85
1:A:629:PHE:CD1	1:A:633:HIS:HE1	1.95	0.85
1:A:590:ASP:OD1	1:A:657:HIS:CE1	2.29	0.85
2:D:3275:LYS:HE3	2:D:3282:LEU:CD1	2.06	0.85
2:D:1745:LEU:HD12	2:D:1754:LEU:CD2	2.06	0.85
1:A:26:LEU:CA	1:A:83:LYS:HD2	2.07	0.85
1:A:1244:GLU:HG3	1:A:1473:LYS:O	1.77	0.85
1:C:179:HIS:ND1	1:C:213:VAL:HG11	1.90	0.85
1:C:60:HIS:CD2	1:C:65:PHE:HE2	1.94	0.85
2:D:2067:TYR:CD2	2:D:2069:PRO:HD3	2.12	0.85
1:A:482:HIS:HA	1:A:487:PHE:HD2	1.41	0.85
2:D:2714:LEU:CD2	2:D:2778:ILE:HG23	2.04	0.85
2:B:2627:THR:HG22	2:B:2683:TYR:CB	2.07	0.85
1:C:1622:PHE:CZ	1:C:1646:ILE:HD12	2.10	0.85
1:A:931:THR:HA	1:A:991:ILE:HG21	1.59	0.85
2:B:2254:VAL:HG12	2:B:2433:PHE:CD1	2.09	0.85
1:A:1605:LEU:HD13	1:A:1606:ASP:N	1.91	0.85
1:C:1142:PHE:CD1	1:C:1195:ILE:HG21	2.11	0.85
1:A:516:TRP:CZ2	1:A:566:LEU:HG	2.11	0.85
1:C:590:ASP:OD1	1:C:657:HIS:CE1	2.29	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3275:LYS:HE3	2:B:3282:LEU:CD1	2.06	0.85
1:C:373:LEU:HD12	1:C:403:HIS:CE1	2.11	0.85
1:C:1244:GLU:HG3	1:C:1473:LYS:O	1.77	0.84
2:D:1880:GLN:HE22	2:D:1884:ILE:HG23	1.39	0.84
2:B:1880:GLN:HE22	2:B:1884:ILE:HG23	1.39	0.84
2:B:3160:LEU:HD13	2:B:3162:ASN:H	1.38	0.84
1:C:1189:ARG:HE	2:D:2431:ARG:HG2	1.41	0.84
1:C:1515:TYR:HA	1:C:1519:PHE:HD2	1.42	0.84
1:A:1254:SER:OG	1:A:1522:ALA:CB	2.24	0.84
1:A:546:SER:CA	1:A:558:THR:HG21	2.07	0.84
2:B:3318:VAL:CG1	2:B:3320:VAL:HG22	2.07	0.84
1:C:482:HIS:HA	1:C:487:PHE:HD2	1.41	0.84
2:B:2228:THR:HG23	2:B:2231:GLY:N	1.92	0.84
2:B:1714:PRO:O	2:B:1719:ARG:CZ	2.25	0.84
2:B:1747:LYS:NZ	2:D:2094:ARG:NE	2.24	0.84
2:B:2195:TRP:C	2:D:1922:TYR:CE1	2.51	0.84
2:D:3320:VAL:HG12	2:D:3321:LYS:H	1.41	0.84
2:D:1768:GLU:HA	2:D:1771:THR:HG22	1.59	0.84
1:A:1142:PHE:CD1	1:A:1195:ILE:HG21	2.11	0.84
1:C:1161:ILE:HB	1:C:1198:LYS:HZ1	1.42	0.84
1:C:1618:LEU:HG	2:D:1906:VAL:HG11	1.57	0.84
2:B:3243:PRO:CD	2:D:3354:PRO:HB3	2.07	0.84
2:D:2627:THR:HG22	2:D:2683:TYR:CB	2.07	0.84
1:C:1409:GLU:OE2	1:C:1544:LYS:NZ	2.09	0.84
1:A:1423:LEU:HD12	1:A:1424:HIS:N	1.92	0.84
1:A:1228:LEU:HD23	1:A:1229:PHE:H	1.41	0.84
2:D:1714:PRO:O	2:D:1719:ARG:CZ	2.25	0.84
1:A:721:GLU:O	1:A:724:GLN:HG2	1.77	0.84
1:A:997:LEU:O	1:A:1000:GLU:HG2	1.76	0.84
2:B:2503:GLY:CA	2:B:2588:VAL:HB	2.07	0.84
2:D:2124:LEU:HD13	2:D:2125:PRO:CD	2.08	0.84
2:B:2180:HIS:HA	2:B:2225:PHE:CE2	2.13	0.84
1:C:1515:TYR:HE2	1:C:1521:TYR:HB2	1.40	0.84
1:C:853:LEU:HB3	1:C:959:TRP:HZ2	1.40	0.84
2:B:2067:TYR:CD2	2:B:2069:PRO:HD3	2.12	0.84
1:A:745:ILE:HD11	1:A:798:VAL:CG1	2.08	0.84
1:C:745:ILE:HD11	1:C:798:VAL:HG11	1.59	0.84
1:C:57:CYS:SG	1:C:247:PRO:HD3	2.18	0.84
2:D:2761:TYR:HA	2:D:2764:PHE:CD1	2.11	0.84
2:D:2354:LEU:HD12	2:D:2356:TYR:CE1	2.12	0.84
2:B:1747:LYS:HZ3	2:D:2094:ARG:HE	1.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1694:SER:HA	2:D:2101:TYR:CE2	2.12	0.84
2:D:2687:THR:CG2	2:D:2690:TYR:HB2	2.08	0.84
1:A:251:GLU:HG2	1:A:259:ASN:CG	1.98	0.84
2:D:2275:LEU:HD21	2:D:2284:ASP:OD2	1.78	0.84
2:B:2221:GLN:HG2	2:B:2266:LEU:HD13	1.58	0.84
1:C:1515:TYR:HE2	1:C:1521:TYR:CB	1.88	0.84
1:C:80:LEU:HB3	1:C:85:ARG:HB2	1.57	0.84
1:A:1618:LEU:HD11	2:B:1906:VAL:HG21	1.59	0.84
2:B:1768:GLU:HA	2:B:1771:THR:HG22	1.59	0.84
1:C:748:LYS:CE	1:C:797:GLU:OE1	2.25	0.84
1:A:1102:PRO:O	1:A:1105:VAL:HG22	1.77	0.84
1:C:1423:LEU:HD12	1:C:1424:HIS:N	1.92	0.84
2:B:2502:HIS:CE1	2:B:3128:HIS:NE2	2.46	0.84
1:C:310:LYS:HZ3	1:C:351:LYS:HE2	1.43	0.84
2:B:2279:HIS:HB3	2:B:2423:LYS:CE	2.06	0.84
1:C:1275:ALA:O	1:C:1278:LEU:HG	1.78	0.84
1:A:1657:THR:CA	2:B:1901:GLU:OE1	2.26	0.84
2:B:2300:VAL:HG13	2:B:2368:LEU:CD2	2.08	0.84
2:B:2195:TRP:CD1	2:D:1695:SER:OG	2.29	0.84
2:D:3042:GLN:OE1	2:D:3049:SER:HB3	1.78	0.84
1:A:895:VAL:CG2	1:A:898:MET:HB2	2.08	0.84
1:A:1078:ARG:CB	2:B:2457:PRO:HD3	2.08	0.84
1:C:1611:LEU:HA	1:C:1614:ASN:HD21	1.41	0.84
1:A:907:LEU:HD21	1:A:1105:VAL:HG12	1.58	0.84
2:D:2522:ALA:O	2:D:2526:VAL:HG23	1.78	0.84
1:A:1133:LEU:O	1:A:1136:ILE:HG22	1.78	0.84
2:D:2087:ASP:O	2:D:2090:THR:HG22	1.78	0.84
2:B:1815:SER:HB3	2:B:1820:HIS:CE1	2.13	0.84
2:D:2631:ARG:HE	2:D:2679:GLY:HA2	1.43	0.84
1:C:251:GLU:HG2	1:C:259:ASN:CG	1.98	0.84
1:A:749:THR:CG2	1:A:751:ASP:HB2	2.08	0.84
1:A:749:THR:HG21	1:A:751:ASP:HB2	1.58	0.84
1:C:721:GLU:O	1:C:724:GLN:HG2	1.77	0.84
2:B:2124:LEU:HD13	2:B:2125:PRO:CD	2.08	0.84
1:A:344:LEU:HD13	1:A:345:GLY:N	1.93	0.84
1:A:77:GLU:HA	1:A:80:LEU:HD23	1.60	0.84
1:A:89:LEU:HG	1:A:89:LEU:O	1.77	0.84
1:A:1319:TRP:HA	1:A:1490:LEU:CD2	2.08	0.84
1:C:217:PHE:HE2	1:C:221:GLN:HE21	1.26	0.84
2:B:3044:LYS:HD2	2:B:3180:HIS:NE2	1.93	0.84
2:B:1768:GLU:HA	2:B:1771:THR:CG2	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3306:ILE:HG22	2:B:3329:MET:HG2	1.58	0.84
2:D:3044:LYS:HD2	2:D:3180:HIS:NE2	1.93	0.84
2:D:2506:LYS:HG2	2:D:2769:ASP:CB	2.05	0.84
2:B:1805:ASP:HB2	2:B:1858:GLU:HG2	1.60	0.84
1:C:493:LEU:HD21	1:C:682:THR:HB	1.58	0.84
1:A:666:HIS:HD2	1:A:686:ALA:HB3	1.43	0.84
2:D:2180:HIS:HA	2:D:2225:PHE:CE2	2.13	0.83
2:B:2275:LEU:HD21	2:B:2284:ASP:OD2	1.78	0.83
1:C:1463:ALA:HA	1:C:1466:GLN:NE2	1.91	0.83
2:D:1985:SER:CB	2:D:2050:TYR:CZ	2.61	0.83
1:A:11:LEU:HD11	1:A:90:PRO:HG2	1.59	0.83
1:A:1328:GLU:OE1	1:A:1521:TYR:HD2	1.56	0.83
2:D:1768:GLU:HA	2:D:1771:THR:CG2	2.08	0.83
1:A:1157:VAL:HG22	1:A:1216:VAL:CG1	2.08	0.83
2:B:3347:ALA:CB	2:D:3315:PRO:CG	2.56	0.83
1:C:248:PHE:HB3	1:C:258:THR:HG22	1.57	0.83
2:D:2149:TRP:HA	2:D:2326:MET:SD	2.19	0.83
2:D:2300:VAL:HG13	2:D:2368:LEU:CD2	2.08	0.83
2:B:1695:SER:OG	2:D:2195:TRP:HB3	1.77	0.83
1:C:1257:ARG:HB2	1:C:1521:TYR:HD1	1.40	0.83
1:C:546:SER:CA	1:C:558:THR:HG21	2.08	0.83
1:C:626:ASP:OD1	1:C:628:LEU:N	2.10	0.83
1:A:1325:VAL:HG11	1:A:1519:PHE:CD1	2.13	0.83
1:A:1254:SER:CB	1:A:1522:ALA:HB2	2.08	0.83
1:A:604:THR:HG23	1:A:605:ILE:HD13	1.60	0.83
1:A:745:ILE:HD11	1:A:798:VAL:HG11	1.59	0.83
2:D:1865:LEU:HD22	2:D:2013:GLU:CG	2.07	0.83
1:A:408:GLY:O	1:A:653:PRO:HG3	1.79	0.83
1:A:411:ASP:HB3	1:A:655:ARG:CB	2.07	0.83
1:C:749:THR:CG2	1:C:751:ASP:HB2	2.08	0.83
2:B:2929:LYS:HA	2:B:2932:ASN:HD21	1.43	0.83
2:B:2206:ARG:HH21	2:B:2218:ARG:HG2	1.42	0.83
2:B:2101:TYR:CE1	2:D:1693:HIS:HB3	2.11	0.83
2:B:2195:TRP:CB	2:D:1922:TYR:CA	2.57	0.83
1:C:1515:TYR:HD1	1:C:1519:PHE:CD2	1.93	0.83
1:A:197:LEU:HD23	1:A:344:LEU:HD12	1.60	0.83
1:C:197:LEU:HD23	1:C:344:LEU:HD12	1.60	0.83
2:D:3265:ASP:HB2	2:D:3292:ILE:CD1	2.09	0.83
2:B:3269:LYS:HE3	2:B:3270:PHE:N	1.93	0.83
2:B:2522:ALA:O	2:B:2526:VAL:HG23	1.78	0.83
1:A:1409:GLU:OE2	1:A:1544:LYS:NZ	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1319:TRP:HA	1:C:1490:LEU:CD2	2.08	0.83
1:A:1662:THR:HB	2:B:1893:ARG:CB	2.08	0.83
1:C:1161:ILE:HB	1:C:1198:LYS:NZ	1.93	0.83
1:C:629:PHE:CD1	1:C:633:HIS:HE1	1.95	0.83
2:B:2687:THR:CG2	2:B:2690:TYR:HB2	2.08	0.83
1:C:516:TRP:CD2	1:C:605:ILE:HD12	2.14	0.83
1:A:1406:TYR:HA	1:A:1543:ARG:HH22	1.42	0.83
1:A:973:ARG:HA	1:A:1026:GLN:NE2	1.93	0.83
1:C:1254:SER:CB	1:C:1522:ALA:HB2	2.08	0.83
1:A:1591:GLY:O	1:A:1594:GLU:HG2	1.78	0.83
1:A:649:ARG:NH1	1:A:716:GLU:HG2	1.93	0.83
1:A:1618:LEU:HD22	1:A:1648:PHE:CG	2.13	0.83
2:B:3042:GLN:OE1	2:B:3049:SER:HB3	1.78	0.83
1:C:810:LEU:HD21	1:C:814:LEU:HD21	1.61	0.83
1:C:1328:GLU:OE1	1:C:1521:TYR:HD2	1.57	0.83
1:C:1363:ASN:HB2	1:C:1365:ARG:CZ	2.07	0.83
1:C:839:ARG:HD2	1:C:1116:TYR:CE1	2.13	0.83
1:C:482:HIS:HD2	1:C:487:PHE:CE2	1.96	0.83
2:B:1865:LEU:HD22	2:B:2013:GLU:CG	2.07	0.83
1:A:647:GLN:HB3	1:A:652:LYS:HB3	1.61	0.83
2:D:2228:THR:HG23	2:D:2231:GLY:N	1.92	0.83
1:C:931:THR:HA	1:C:991:ILE:HG21	1.59	0.83
2:D:2604:THR:HA	2:D:2607:THR:HG22	1.61	0.83
1:A:1363:ASN:HB2	1:A:1365:ARG:CZ	2.07	0.83
1:A:1515:TYR:HE2	1:A:1521:TYR:HB2	1.41	0.83
1:A:626:ASP:OD1	1:A:628:LEU:N	2.10	0.83
1:A:583:LEU:HD12	1:A:718:MET:HE1	1.60	0.83
2:B:1874:PHE:CD2	2:B:1878:HIS:HE1	1.97	0.83
1:C:895:VAL:CG2	1:C:898:MET:HB2	2.08	0.83
2:B:2776:MET:HG2	2:B:2780:LYS:HE3	1.60	0.83
2:B:3076:ASN:HB3	2:B:3234:VAL:HG13	1.61	0.83
2:B:3211:THR:HA	2:B:3238:GLY:HA2	1.60	0.83
1:A:1099:HIS:CE1	1:A:1111:ASN:HB3	2.14	0.83
1:A:853:LEU:HB3	1:A:959:TRP:HZ2	1.40	0.83
1:C:1022:VAL:HG21	1:C:1041:LEU:CD2	2.08	0.83
1:A:1501:GLU:O	1:A:1504:LYS:HG2	1.78	0.83
2:D:2596:THR:HG22	2:D:2774:HIS:HE1	1.41	0.83
2:B:2179:ILE:HD11	2:B:2182:ILE:HA	1.60	0.83
1:C:1591:GLY:O	1:C:1594:GLU:HG2	1.78	0.83
1:A:1249:GLN:NE2	1:A:1476:TYR:CD1	2.46	0.83
1:A:1515:TYR:CE1	1:A:1519:PHE:HB2	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1874:PHE:CD2	2:D:1878:HIS:HE1	1.97	0.83
1:A:402:VAL:HG23	1:A:657:HIS:O	1.78	0.83
2:B:2087:ASP:O	2:B:2090:THR:HG22	1.78	0.83
1:C:1133:LEU:O	1:C:1136:ILE:HG22	1.78	0.83
2:D:3211:THR:HA	2:D:3238:GLY:HA2	1.61	0.83
2:B:2571:ARG:NH2	2:B:2761:TYR:HB3	1.94	0.83
1:A:493:LEU:HD22	1:A:670:PHE:CE1	2.14	0.83
1:A:1249:GLN:HG3	1:A:1476:TYR:CG	2.13	0.83
2:D:1757:TRP:CE3	2:D:1873:LEU:CD1	2.60	0.83
2:B:3265:ASP:HB2	2:B:3292:ILE:CD1	2.09	0.83
1:A:1022:VAL:HG21	1:A:1041:LEU:CD2	2.08	0.83
1:A:383:LEU:HD23	1:A:391:LEU:HD22	1.59	0.83
2:B:2101:TYR:CZ	2:D:1694:SER:HA	2.14	0.83
2:B:2149:TRP:HA	2:B:2326:MET:SD	2.19	0.83
1:A:1275:ALA:O	1:A:1278:LEU:HG	1.78	0.83
2:D:3341:ASN:HB3	2:D:3361:PHE:HB3	1.59	0.83
1:C:907:LEU:HD21	1:C:1105:VAL:HG12	1.58	0.83
1:A:1611:LEU:HA	1:A:1614:ASN:HD21	1.41	0.83
1:A:1214:TYR:CD2	1:A:1226:LYS:HD3	2.13	0.83
1:C:383:LEU:HD23	1:C:391:LEU:HD22	1.59	0.83
1:C:493:LEU:HD22	1:C:670:PHE:CE1	2.14	0.83
1:C:749:THR:HG21	1:C:751:ASP:HB2	1.58	0.83
2:D:2206:ARG:HH21	2:D:2218:ARG:HG2	1.42	0.83
2:D:2929:LYS:HA	2:D:2932:ASN:HD21	1.43	0.83
2:B:2124:LEU:CB	2:B:2279:HIS:HB2	2.09	0.82
1:C:1273:LEU:HB3	1:C:1374:PHE:HZ	1.43	0.82
1:C:649:ARG:NH1	1:C:716:GLU:HG2	1.93	0.82
1:A:1515:TYR:HA	1:A:1519:PHE:HD2	1.42	0.82
2:B:1770:LEU:HD21	2:B:1876:ILE:HG13	1.61	0.82
2:B:3205:VAL:CG2	2:B:3288:PRO:HG2	2.08	0.82
2:B:3366:MET:HG2	2:B:3367:TYR:H	1.40	0.82
1:C:604:THR:HG23	1:C:605:ILE:HD13	1.60	0.82
1:C:402:VAL:HG23	1:C:657:HIS:O	1.78	0.82
1:C:411:ASP:HB3	1:C:655:ARG:CB	2.07	0.82
2:D:3076:ASN:CG	2:D:3236:LEU:HD13	1.99	0.82
1:A:57:CYS:SG	1:A:247:PRO:HD3	2.18	0.82
2:D:2099:LEU:HB3	2:D:2204:PHE:HZ	1.44	0.82
2:B:2155:LEU:CD2	2:B:2354:LEU:HD13	2.10	0.82
1:C:1325:VAL:HG11	1:C:1519:PHE:CD1	2.13	0.82
1:C:1249:GLN:HG3	1:C:1476:TYR:CG	2.13	0.82
2:D:3269:LYS:HE3	2:D:3270:PHE:N	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2970:PHE:HD2	2:B:2971:PRO:HD3	1.44	0.82
2:D:1811:LEU:HG	2:D:1853:TRP:CZ3	2.13	0.82
2:B:3218:TYR:O	2:B:3271:ARG:HB2	1.79	0.82
1:C:1618:LEU:HD22	1:C:1648:PHE:CG	2.13	0.82
1:C:973:ARG:HA	1:C:1026:GLN:NE2	1.94	0.82
2:D:1815:SER:HB3	2:D:1820:HIS:CE1	2.13	0.82
2:D:1709:PRO:O	2:D:1719:ARG:HD3	1.80	0.82
1:C:1249:GLN:NE2	1:C:1476:TYR:CD1	2.46	0.82
1:C:1515:TYR:CE1	1:C:1519:PHE:HB2	2.12	0.82
1:C:77:GLU:HA	1:C:80:LEU:HD23	1.60	0.82
2:D:3318:VAL:CG1	2:D:3320:VAL:HG22	2.07	0.82
1:C:1214:TYR:CD2	1:C:1226:LYS:HD3	2.13	0.82
1:A:595:GLU:OE2	1:A:599:GLU:HB2	1.79	0.82
1:A:632:HIS:O	1:A:636:VAL:HG23	1.79	0.82
1:C:408:GLY:O	1:C:653:PRO:HG3	1.79	0.82
1:C:165:GLN:NE2	1:C:171:PHE:HA	1.94	0.82
1:A:493:LEU:HD21	1:A:682:THR:HB	1.58	0.82
1:C:1248:TYR:HA	1:C:1470:ARG:HD2	1.30	0.82
1:C:1365:ARG:HD3	1:C:1365:ARG:H	1.44	0.82
2:B:1985:SER:CB	2:B:2050:TYR:CZ	2.61	0.82
1:A:1273:LEU:HB3	1:A:1374:PHE:HZ	1.43	0.82
1:A:426:LYS:HB3	1:A:430:ASP:OD2	1.78	0.82
1:C:1233:SER:HA	2:D:2320:SER:CB	2.08	0.82
2:B:3341:ASN:HB3	2:B:3361:PHE:HB3	1.59	0.82
2:B:2401:PHE:HD2	2:B:2413:GLY:HA3	1.41	0.82
1:A:486:ILE:HB	1:A:662:LEU:CD2	2.08	0.82
1:C:486:ILE:HB	1:C:662:LEU:CD2	2.08	0.82
1:C:745:ILE:HD11	1:C:798:VAL:CG1	2.08	0.82
2:D:1805:ASP:HB2	2:D:1858:GLU:HG2	1.60	0.82
1:A:1280:ILE:HA	1:A:1283:ASP:OD2	1.79	0.82
2:B:2494:HIS:CE1	2:B:3125:LYS:HE2	2.14	0.82
1:C:1233:SER:CA	2:D:2320:SER:CB	2.57	0.82
1:A:1153:LYS:HB3	1:A:1178:GLY:HA3	1.60	0.82
1:C:765:GLY:O	1:C:768:GLU:HG2	1.79	0.82
2:B:2202:ASN:OD1	2:B:2204:PHE:HB2	1.79	0.82
2:B:2195:TRP:CB	2:D:1922:TYR:CD1	2.05	0.82
1:C:479:CYS:SG	1:C:669:PRO:HD3	2.20	0.82
1:C:11:LEU:HD11	1:C:90:PRO:HG2	1.59	0.82
1:C:344:LEU:HD13	1:C:345:GLY:N	1.93	0.82
2:D:2479:ALA:HB1	2:D:2480:PRO:HD2	1.62	0.82
2:B:2506:LYS:HG2	2:B:2769:ASP:CB	2.05	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1811:LEU:HG	2:B:1853:TRP:CZ3	2.13	0.82
2:D:2970:PHE:HD2	2:D:2971:PRO:HD3	1.44	0.82
2:D:2622:LEU:HG	2:D:2683:TYR:CE1	2.15	0.82
2:D:2571:ARG:NH2	2:D:2761:TYR:HB3	1.94	0.82
2:B:2099:LEU:HB3	2:B:2204:PHE:HZ	1.44	0.82
2:D:1770:LEU:HD21	2:D:1876:ILE:HG13	1.61	0.82
2:D:2776:MET:HG2	2:D:2780:LYS:HE3	1.60	0.82
2:B:2086:HIS:HB3	2:B:2090:THR:CG2	2.09	0.82
1:A:1416:PHE:CE2	1:A:1420:LEU:HD22	2.15	0.82
2:D:2155:LEU:CD2	2:D:2354:LEU:HD13	2.10	0.82
2:D:2399:VAL:O	2:D:2415:GLN:HG3	1.80	0.82
1:C:1515:TYR:CZ	1:C:1519:PHE:CB	2.59	0.82
1:A:802:ILE:HD11	1:A:815:ILE:HG12	1.62	0.82
2:B:2942:ILE:HD11	2:B:2980:GLN:HG2	1.59	0.82
2:B:2464:VAL:O	2:B:2471:VAL:HG13	1.80	0.82
1:C:481:VAL:CG2	1:C:486:ILE:HG23	2.10	0.82
2:D:2086:HIS:HB3	2:D:2090:THR:CG2	2.09	0.82
2:B:2088:LEU:HD12	2:B:2089:SER:N	1.94	0.82
1:C:1501:GLU:O	1:C:1504:LYS:HG2	1.78	0.82
2:B:1697:GLY:O	2:B:1701:ILE:HG12	1.79	0.82
1:C:638:ARG:HG2	1:C:702:TYR:CE1	2.15	0.82
1:A:469:PRO:HG2	1:A:476:ARG:HA	1.62	0.82
1:A:479:CYS:SG	1:A:669:PRO:HD3	2.20	0.82
1:C:1153:LYS:HB3	1:C:1178:GLY:HA3	1.60	0.82
2:B:2437:ILE:CD1	2:B:2441:LEU:HD21	2.09	0.82
1:A:516:TRP:CD2	1:A:605:ILE:HD12	2.14	0.82
2:D:2464:VAL:O	2:D:2471:VAL:HG13	1.79	0.82
2:D:2472:LEU:HD13	2:D:2473:PRO:N	1.94	0.82
2:D:2155:LEU:CG	2:D:2354:LEU:HD13	2.10	0.82
2:B:1709:PRO:O	2:B:1719:ARG:HD3	1.80	0.82
1:C:1091:ASN:O	1:C:1097:LYS:CE	2.28	0.82
1:C:1477:ARG:HG3	1:C:1513:PHE:CB	2.10	0.82
1:A:94:TRP:HZ2	1:A:185:LEU:HD22	1.45	0.82
1:A:5:ARG:HD3	1:A:89:LEU:HD21	1.61	0.82
1:A:1468:LEU:HD23	1:A:1533:ILE:CG2	2.08	0.82
1:C:1157:VAL:HG22	1:C:1216:VAL:CG1	2.08	0.82
1:A:482:HIS:HD2	1:A:487:PHE:CE2	1.96	0.82
1:A:729:TYR:HB2	1:A:821:ILE:HD11	1.62	0.82
2:B:2124:LEU:CD2	2:B:2125:PRO:HA	2.04	0.81
2:B:2100:LYS:HE2	2:B:2203:PRO:HD3	1.62	0.81
1:C:1087:SER:C	1:C:1097:LYS:HZ2	1.82	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1515:TYR:OH	1:C:1521:TYR:HD2	1.57	0.81
2:D:1985:SER:HB3	2:D:2050:TYR:HE2	0.91	0.81
1:C:583:LEU:HD12	1:C:718:MET:HE1	1.62	0.81
1:A:182:ILE:HD12	1:A:209:HIS:CE1	2.15	0.81
1:C:182:ILE:HD12	1:C:209:HIS:CE1	2.15	0.81
2:D:3341:ASN:CB	2:D:3361:PHE:HB3	2.10	0.81
1:A:1161:ILE:HB	1:A:1198:LYS:NZ	1.93	0.81
2:D:2446:ILE:HG23	2:D:2450:ASP:OD1	1.79	0.81
1:A:810:LEU:HD21	1:A:814:LEU:HD21	1.61	0.81
1:A:165:GLN:NE2	1:A:171:PHE:HA	1.94	0.81
1:A:1422:ILE:HG13	1:A:1603:TYR:CE1	2.15	0.81
1:A:1205:HIS:HD2	1:A:1207:GLU:H	1.24	0.81
2:B:2221:GLN:O	2:B:2224:LEU:HD22	1.80	0.81
2:B:1866:HIS:NE2	2:B:2012:LYS:HG2	1.95	0.81
2:D:1697:GLY:O	2:D:1701:ILE:HG12	1.79	0.81
1:C:1082:GLN:HB3	1:C:1083:PRO:HA	1.62	0.81
1:C:426:LYS:HB3	1:C:430:ASP:OD2	1.78	0.81
1:C:560:ARG:CD	1:C:609:THR:O	2.25	0.81
1:A:638:ARG:HG2	1:A:702:TYR:CE1	2.15	0.81
1:A:1657:THR:OG1	2:B:1900:SER:CB	2.28	0.81
1:C:1099:HIS:CE1	1:C:1111:ASN:HB3	2.14	0.81
1:A:1075:THR:HB	2:B:2482:ILE:HG22	1.62	0.81
2:B:2096:ILE:HG12	2:B:2185:LEU:CD1	2.08	0.81
1:C:256:PRO:HA	1:C:259:ASN:HD22	1.45	0.81
1:C:1205:HIS:HD2	1:C:1207:GLU:H	1.24	0.81
2:B:2479:ALA:HB1	2:B:2480:PRO:HD2	1.62	0.81
2:D:2221:GLN:O	2:D:2224:LEU:HD22	1.80	0.81
2:D:2124:LEU:CB	2:D:2279:HIS:HB2	2.09	0.81
2:B:2399:VAL:O	2:B:2415:GLN:HG3	1.80	0.81
1:A:1091:ASN:O	1:A:1097:LYS:CE	2.28	0.81
1:C:1244:GLU:HG2	1:C:1245:GLY:N	1.95	0.81
1:C:1280:ILE:HA	1:C:1283:ASP:OD2	1.79	0.81
1:C:1468:LEU:HD23	1:C:1533:ILE:CG2	2.08	0.81
1:C:5:ARG:NH1	1:C:89:LEU:HD11	1.96	0.81
1:C:89:LEU:HG	1:C:89:LEU:O	1.77	0.81
2:D:3310:LYS:HA	2:D:3387:ASN:OD1	1.81	0.81
1:C:1079:GLU:H	2:D:2456:GLU:HG3	1.41	0.81
2:B:2446:ILE:HG23	2:B:2450:ASP:OD1	1.79	0.81
2:D:3187:LEU:O	2:D:3190:VAL:HG12	1.80	0.81
1:A:582:ILE:HG21	1:A:639:LEU:HD23	1.62	0.81
2:B:2472:LEU:HD13	2:B:2473:PRO:N	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:582:ILE:HG21	1:C:639:LEU:HD23	1.61	0.81
1:A:839:ARG:HD2	1:A:1116:TYR:CE1	2.13	0.81
2:D:3218:TYR:O	2:D:3271:ARG:HB2	1.80	0.81
1:A:765:GLY:O	1:A:768:GLU:HG2	1.79	0.81
2:D:3322:ARG:HG3	2:D:3371:SER:HB3	1.62	0.81
2:B:2387:GLY:HA3	2:B:2481:THR:CG2	2.11	0.81
1:A:1365:ARG:HG2	1:A:1366:GLN:N	1.91	0.81
1:A:1657:THR:CB	2:B:1901:GLU:OE1	2.29	0.81
2:D:2437:ILE:CD1	2:D:2441:LEU:HD21	2.09	0.81
2:D:2983:ARG:HD3	2:D:3152:ASP:OD2	1.80	0.81
1:C:1647:LEU:HD12	1:C:1648:PHE:H	1.45	0.81
2:B:2101:TYR:CG	2:D:1693:HIS:CB	2.37	0.81
2:D:2566:PHE:HD1	2:D:2567:PRO:HD3	1.46	0.81
1:A:217:PHE:HE2	1:A:221:GLN:HE21	1.26	0.81
2:D:3205:VAL:CG2	2:D:3288:PRO:HG2	2.08	0.81
2:B:3217:VAL:HG13	2:B:3230:ALA:HB3	1.62	0.81
1:C:632:HIS:O	1:C:636:VAL:HG23	1.79	0.81
1:C:1416:PHE:CE2	1:C:1420:LEU:HD22	2.15	0.81
1:A:256:PRO:HA	1:A:259:ASN:HD22	1.45	0.81
2:D:2088:LEU:HD12	2:D:2089:SER:N	1.94	0.81
2:B:2578:GLU:OE2	2:B:2589:GLY:HA2	1.81	0.81
2:B:1922:TYR:HD1	2:D:2195:TRP:CB	1.92	0.81
1:A:1082:GLN:HB3	1:A:1083:PRO:HA	1.62	0.81
1:C:1242:HIS:CB	1:C:1476:TYR:CE1	2.63	0.81
1:C:469:PRO:HG2	1:C:476:ARG:HA	1.62	0.81
1:A:464:LEU:HD13	1:A:465:PRO:N	1.96	0.81
2:D:3340:LEU:HG	2:D:3341:ASN:HD22	1.44	0.81
2:B:2494:HIS:HE1	2:B:3125:LYS:HZ1	1.27	0.81
2:B:1773:SER:HA	2:B:1789:ILE:HD12	1.62	0.81
2:D:2974:HIS:O	2:D:2978:THR:HG23	1.80	0.81
2:D:2942:ILE:HD11	2:D:2980:GLN:HG2	1.59	0.81
2:B:2622:LEU:HG	2:B:2683:TYR:CE1	2.15	0.81
2:B:3076:ASN:CG	2:B:3236:LEU:HD13	1.99	0.81
1:A:906:ARG:NH1	1:A:1108:TYR:HB3	1.96	0.81
2:B:1778:PRO:HB2	2:D:1817:LYS:HD3	1.62	0.81
2:B:2604:THR:HA	2:B:2607:THR:HG22	1.61	0.81
2:D:2186:PHE:CE1	2:D:2289:ILE:HG12	2.16	0.81
2:D:2387:GLY:HA3	2:D:2481:THR:CG2	2.10	0.81
1:A:1442:LEU:HD23	1:A:1589:LEU:HD12	1.61	0.81
1:A:1477:ARG:HG3	1:A:1513:PHE:CB	2.10	0.81
1:C:910:VAL:HG11	1:C:1112:PHE:HD2	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2494:HIS:HB3	2:B:3124:VAL:HG13	1.61	0.81
2:B:3340:LEU:HG	2:B:3341:ASN:HD22	1.44	0.81
1:A:481:VAL:CG2	1:A:486:ILE:HG23	2.10	0.81
2:B:3275:LYS:HE3	2:B:3282:LEU:HD13	1.62	0.81
2:B:2094:ARG:HB3	2:D:1747:LYS:HZ2	1.46	0.81
2:D:1866:HIS:NE2	2:D:2012:LYS:HG2	1.96	0.81
1:C:548:VAL:HA	1:C:556:PRO:HD2	1.62	0.81
1:C:89:LEU:HD23	1:C:89:LEU:H	1.46	0.81
1:C:647:GLN:HB3	1:C:652:LYS:HB3	1.61	0.81
1:A:1010:GLN:HA	1:A:1191:PHE:CE1	2.16	0.81
1:C:1422:ILE:HG13	1:C:1603:TYR:CE1	2.15	0.81
2:D:2179:ILE:HD11	2:D:2182:ILE:HA	1.60	0.81
2:D:2100:LYS:HE2	2:D:2203:PRO:HD3	1.62	0.81
2:D:2248:ASP:OD2	2:D:2431:ARG:NH1	2.14	0.81
1:C:440:ARG:HA	1:C:544:PHE:CE2	2.16	0.81
2:B:2566:PHE:HD1	2:B:2567:PRO:HD3	1.46	0.81
1:C:80:LEU:HB3	1:C:85:ARG:CB	2.11	0.81
1:A:1647:LEU:HD12	1:A:1648:PHE:H	1.45	0.81
2:D:1854:VAL:HG23	2:D:1862:ILE:HB	1.63	0.81
2:B:1854:VAL:HG23	2:B:1862:ILE:HB	1.63	0.81
1:C:900:VAL:HG13	1:C:1081:LEU:HD11	1.62	0.81
1:A:412:PRO:CG	1:A:654:TYR:CB	2.59	0.81
2:D:3076:ASN:HB3	2:D:3234:VAL:HG13	1.61	0.81
2:D:2202:ASN:OD1	2:D:2204:PHE:HB2	1.79	0.81
1:C:1325:VAL:CG1	1:C:1515:TYR:HE1	1.94	0.81
1:C:1365:ARG:HG2	1:C:1366:GLN:N	1.91	0.81
1:A:1249:GLN:HG3	1:A:1476:TYR:CB	2.10	0.81
2:D:3387:ASN:HD21	2:D:3389:LEU:HG	1.45	0.81
1:C:906:ARG:NH1	1:C:1108:TYR:HB3	1.96	0.81
2:B:3310:LYS:HA	2:B:3387:ASN:OD1	1.80	0.81
2:B:1865:LEU:CD2	2:B:2013:GLU:HG2	2.09	0.81
2:B:2631:ARG:HE	2:B:2679:GLY:HA2	1.43	0.81
1:C:1436:LYS:HD2	1:C:1437:TYR:CE1	2.15	0.81
1:C:729:TYR:HB2	1:C:821:ILE:HD11	1.61	0.81
1:C:1353:PRO:HG2	1:C:1356:ILE:CG1	2.10	0.80
1:A:1365:ARG:HD3	1:A:1365:ARG:H	1.44	0.80
1:A:548:VAL:HA	1:A:556:PRO:HD2	1.62	0.80
1:A:694:TYR:HB2	1:A:700:TYR:HE1	1.45	0.80
1:C:89:LEU:HD12	1:C:211:SER:HG	1.44	0.80
2:B:2983:ARG:HD3	2:B:3152:ASP:OD2	1.80	0.80
1:C:841:ASN:ND2	1:C:844:ARG:HB2	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:666:HIS:HD2	1:C:686:ALA:HB3	1.43	0.80
2:B:2155:LEU:CG	2:B:2354:LEU:HD13	2.10	0.80
2:B:2186:PHE:CE1	2:B:2289:ILE:HG12	2.16	0.80
2:D:1714:PRO:HG2	2:D:1922:TYR:HE2	1.07	0.80
1:C:496:THR:HB	1:C:698:LEU:HD21	1.63	0.80
2:B:1757:TRP:CE3	2:B:1873:LEU:CD1	2.59	0.80
1:A:1161:ILE:HB	1:A:1198:LYS:HZ1	1.46	0.80
2:D:2029:THR:O	2:D:2033:MET:HG2	1.80	0.80
1:C:486:ILE:CB	1:C:662:LEU:HD21	2.12	0.80
2:B:2500:ALA:O	2:B:3126:PRO:O	2.00	0.80
2:D:3142:HIS:HD2	2:D:3145:ASN:HD21	1.30	0.80
1:A:1436:LYS:HD2	1:A:1437:TYR:CE1	2.15	0.80
1:C:1589:LEU:HD13	1:C:1590:GLY:N	1.96	0.80
1:A:440:ARG:HA	1:A:544:PHE:CE2	2.16	0.80
2:B:2974:HIS:O	2:B:2978:THR:HG23	1.80	0.80
1:C:1662:THR:HB	2:D:1893:ARG:HB2	1.62	0.80
2:B:3347:ALA:HB1	2:D:3315:PRO:CG	2.12	0.80
2:D:2096:ILE:HG12	2:D:2185:LEU:CD1	2.08	0.80
2:D:1865:LEU:CD2	2:D:2013:GLU:HG2	2.09	0.80
1:C:1426:ALA:O	1:C:1430:LEU:HD13	1.82	0.80
2:D:2136:VAL:HB	2:D:2425:MET:HB2	1.63	0.80
1:A:1244:GLU:HG2	1:A:1245:GLY:N	1.95	0.80
1:C:5:ARG:HD3	1:C:89:LEU:HD21	1.61	0.80
2:D:3328:PHE:HE1	2:D:3364:GLY:HA2	1.42	0.80
2:D:1773:SER:HA	2:D:1789:ILE:HD12	1.62	0.80
2:B:3341:ASN:CB	2:B:3361:PHE:HB3	2.10	0.80
2:D:2384:VAL:CG1	2:D:2437:ILE:HG23	2.07	0.80
1:C:1153:LYS:CB	1:C:1178:GLY:HA3	2.11	0.80
2:B:2980:GLN:OE1	2:B:3155:THR:HG21	1.81	0.80
1:A:305:ALA:CB	1:A:362:LEU:HD11	2.11	0.80
2:D:2627:THR:CG2	2:D:2683:TYR:HB2	2.11	0.80
2:B:1817:LYS:O	2:D:1676:LYS:CE	2.28	0.80
2:D:3217:VAL:HG13	2:D:3230:ALA:HB3	1.62	0.80
2:B:2136:VAL:HB	2:B:2425:MET:HB2	1.63	0.80
2:D:2550:MET:HG3	2:D:2556:TYR:CE2	2.16	0.80
2:B:2127:LYS:HD3	2:B:2333:ILE:HD13	1.62	0.80
1:C:1189:ARG:NE	2:D:2431:ARG:HG2	1.95	0.80
2:D:1714:PRO:CG	2:D:1922:TYR:CD2	2.65	0.80
2:B:2542:HIS:HE1	2:B:2688:LEU:HD12	1.46	0.80
1:A:508:THR:HG23	1:A:509:ILE:HG13	1.64	0.80
1:A:560:ARG:CD	1:A:609:THR:O	2.25	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2384:VAL:HG13	2:B:2437:ILE:CG2	2.09	0.80
2:B:1920:ALA:HB1	2:B:1921:PRO:HA	1.63	0.80
2:B:1747:LYS:HE3	2:D:2094:ARG:HD2	1.61	0.80
2:B:1695:SER:HA	2:D:2195:TRP:CD1	2.17	0.80
2:B:2195:TRP:HB3	2:D:1922:TYR:CA	2.10	0.80
1:C:1454:HIS:O	1:C:1457:THR:HG22	1.82	0.80
1:A:5:ARG:NH1	1:A:89:LEU:HD11	1.96	0.80
1:A:1515:TYR:OH	1:A:1521:TYR:HD2	1.62	0.80
1:C:595:GLU:OE2	1:C:599:GLU:HB2	1.79	0.80
2:D:2670:HIS:ND1	2:D:2704:THR:HG21	1.96	0.80
1:A:373:LEU:HD12	1:A:403:HIS:ND1	1.96	0.80
1:C:1257:ARG:CG	1:C:1521:TYR:HE1	1.88	0.80
1:C:694:TYR:HB2	1:C:700:TYR:HE1	1.45	0.80
1:A:1262:ILE:HA	1:A:1265:LEU:HD23	1.64	0.80
1:A:552:GLU:OE2	1:A:554:ASN:HB2	1.82	0.80
2:B:3245:ALA:HB2	2:D:3352:LYS:NZ	1.97	0.80
2:D:2794:THR:CG2	2:D:2847:ILE:HG13	2.06	0.80
1:C:305:ALA:CB	1:C:362:LEU:HD11	2.11	0.80
1:A:1409:GLU:HB2	1:A:1543:ARG:NH2	1.97	0.80
1:C:1010:GLN:HA	1:C:1191:PHE:CE1	2.16	0.80
1:A:256:PRO:HA	1:A:259:ASN:ND2	1.97	0.80
2:D:1925:ASN:ND2	2:D:1928:THR:HG23	1.97	0.80
2:D:2091:LEU:HD11	2:D:2171:PRO:CG	2.10	0.80
2:B:1711:CYS:HB2	2:B:1712:PRO:HD3	1.63	0.80
2:B:1714:PRO:CG	2:B:1922:TYR:CD2	2.65	0.80
2:B:2194:VAL:HG12	2:B:2196:ARG:N	1.96	0.80
1:C:560:ARG:CD	1:C:609:THR:CA	2.58	0.80
1:A:85:ARG:NH1	1:A:86:THR:HG22	1.97	0.80
2:B:1909:MET:CE	2:B:1938:PHE:HE2	1.79	0.80
1:A:1153:LYS:CB	1:A:1178:GLY:HA3	2.11	0.80
1:C:802:ILE:HD11	1:C:815:ILE:HG12	1.62	0.80
2:B:1961:ASP:O	2:B:1964:VAL:HG22	1.82	0.80
1:A:1141:ARG:HG3	1:A:1143:PHE:CE1	2.16	0.80
2:B:2550:MET:HG3	2:B:2556:TYR:CE2	2.16	0.80
2:D:1711:CYS:HB2	2:D:1712:PRO:HD3	1.63	0.80
1:C:1249:GLN:HG3	1:C:1476:TYR:CB	2.11	0.80
1:C:1442:LEU:HD23	1:C:1589:LEU:HD12	1.61	0.80
1:A:80:LEU:HB3	1:A:85:ARG:CB	2.11	0.80
2:D:3308:ILE:HG13	2:D:3329:MET:CB	2.11	0.80
1:A:601:THR:O	1:A:604:THR:HG22	1.82	0.80
2:B:3322:ARG:HG3	2:B:3371:SER:HB3	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1961:ASP:O	2:D:1964:VAL:HG22	1.82	0.80
1:C:1262:ILE:HA	1:C:1265:LEU:HD23	1.64	0.80
1:C:1233:SER:HA	2:D:2320:SER:HB2	1.64	0.80
2:B:1694:SER:N	2:D:2101:TYR:CE2	2.50	0.80
1:C:1566:VAL:CG2	1:C:1626:ILE:HG22	2.11	0.80
1:C:1141:ARG:HG3	1:C:1143:PHE:CE1	2.16	0.80
1:C:373:LEU:HD12	1:C:403:HIS:ND1	1.96	0.80
1:C:112:ASP:HB2	1:C:116:GLY:HA3	1.64	0.80
2:D:2542:HIS:HE1	2:D:2688:LEU:HD12	1.46	0.79
1:C:492:ARG:O	1:C:495:VAL:HG12	1.83	0.79
1:A:1353:PRO:HG2	1:A:1356:ILE:CG1	2.10	0.79
1:A:1589:LEU:HD13	1:A:1590:GLY:N	1.96	0.79
1:C:943:HIS:HE1	1:C:946:TYR:CZ	2.01	0.79
1:C:1233:SER:HB2	2:D:2320:SER:HB3	1.64	0.79
2:B:2029:THR:O	2:B:2033:MET:HG2	1.80	0.79
1:A:900:VAL:HG13	1:A:1081:LEU:HD11	1.62	0.79
1:C:484:MET:HB2	1:C:486:ILE:HG22	1.63	0.79
1:A:910:VAL:HG11	1:A:1112:PHE:HD2	1.45	0.79
1:A:1192:LYS:HZ2	1:A:1235:ILE:HD12	1.46	0.79
2:D:3275:LYS:HE3	2:D:3282:LEU:HD13	1.62	0.79
1:C:216:ILE:HA	1:C:219:ILE:HD12	1.64	0.79
2:B:2248:ASP:OD2	2:B:2431:ARG:NH1	2.14	0.79
2:B:1924:LEU:HB3	2:D:2094:ARG:HG2	1.64	0.79
1:A:1352:LEU:HB3	1:A:1353:PRO:HD2	1.63	0.79
1:A:1515:TYR:CD1	1:A:1519:PHE:HB2	2.17	0.79
1:A:492:ARG:O	1:A:495:VAL:HG12	1.83	0.79
1:A:514:TRP:CZ2	1:A:524:PRO:HD3	2.18	0.79
1:A:1567:PHE:HA	1:A:1583:ALA:HB2	1.64	0.79
2:B:3310:LYS:HD3	2:B:3332:ASP:OD2	1.82	0.79
1:C:412:PRO:CG	1:C:654:TYR:CB	2.59	0.79
1:A:1379:ILE:HG23	1:A:1382:GLU:O	1.83	0.79
2:D:2127:LYS:HD3	2:D:2333:ILE:HD13	1.62	0.79
1:C:464:LEU:HD13	1:C:465:PRO:N	1.96	0.79
1:A:1274:ARG:HH11	1:A:1365:ARG:HH21	1.28	0.79
1:A:1566:VAL:CG2	1:A:1626:ILE:HG22	2.12	0.79
2:B:2494:HIS:HE1	2:B:3125:LYS:CE	1.90	0.79
2:B:1909:MET:CE	2:B:1938:PHE:CZ	2.66	0.79
2:D:2578:GLU:OE2	2:D:2589:GLY:HA2	1.80	0.79
2:B:2419:LEU:HD23	2:B:2420:GLY:N	1.97	0.79
1:C:1363:ASN:CB	1:C:1365:ARG:CZ	2.61	0.79
1:A:443:PHE:HA	1:A:505:ARG:NH1	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3187:LEU:O	2:B:3190:VAL:HG12	1.80	0.79
2:D:1786:ASN:O	2:D:1789:ILE:HG22	1.83	0.79
2:B:3325:LYS:HG3	2:B:3367:TYR:HB2	1.64	0.79
1:C:1567:PHE:HA	1:C:1583:ALA:HB2	1.64	0.79
2:B:2732:MET:HE1	2:B:2759:PHE:CZ	2.17	0.79
2:D:2194:VAL:HG12	2:D:2196:ARG:N	1.96	0.79
2:B:2400:GLN:HG3	2:B:2412:HIS:CE1	2.18	0.79
2:D:2999:TRP:CH2	2:D:3074:LEU:HD11	2.18	0.79
2:D:2980:GLN:OE1	2:D:3155:THR:HG21	1.81	0.79
1:A:1426:ALA:O	1:A:1430:LEU:HD13	1.82	0.79
2:B:3142:HIS:HD2	2:B:3145:ASN:HD21	1.30	0.79
2:B:1925:ASN:ND2	2:B:1928:THR:HG23	1.97	0.79
2:D:2182:ILE:HD11	2:D:2224:LEU:HD11	1.65	0.79
2:B:1695:SER:CB	2:D:2195:TRP:HB3	2.12	0.79
2:D:1707:LEU:HD21	2:D:2012:LYS:HD2	1.64	0.79
2:D:1920:ALA:HB1	2:D:1921:PRO:HA	1.63	0.79
1:C:432:THR:HG23	1:C:435:GLU:H	1.47	0.79
1:A:1325:VAL:CG1	1:A:1515:TYR:HE1	1.94	0.79
1:C:94:TRP:HZ2	1:C:185:LEU:HD22	1.45	0.79
2:D:1909:MET:CE	2:D:1938:PHE:CZ	2.66	0.79
1:A:305:ALA:HB2	1:A:362:LEU:HD11	1.65	0.79
1:C:1205:HIS:CD2	1:C:1207:GLU:H	2.01	0.79
2:B:1747:LYS:NZ	2:D:2094:ARG:HE	1.80	0.79
2:B:1707:LEU:HD21	2:B:2012:LYS:HD2	1.64	0.79
1:A:693:ASP:O	1:A:697:VAL:HG22	1.83	0.79
1:C:601:THR:O	1:C:604:THR:HG22	1.82	0.79
1:A:821:ILE:O	1:A:821:ILE:HD12	1.83	0.79
1:A:841:ASN:ND2	1:A:844:ARG:HB2	1.96	0.79
2:B:2170:VAL:HB	2:B:2288:PHE:CE1	2.18	0.79
2:B:2149:TRP:HA	2:B:2326:MET:CE	2.13	0.79
2:B:3308:ILE:HG13	2:B:3329:MET:CB	2.11	0.79
2:B:3328:PHE:CE1	2:B:3364:GLY:HA2	2.18	0.79
2:D:2437:ILE:HG12	2:D:2441:LEU:CG	2.12	0.79
1:A:810:LEU:HD11	1:A:814:LEU:CD2	2.13	0.79
1:C:325:PRO:CD	1:C:377:TYR:HA	2.12	0.79
2:B:2670:HIS:ND1	2:B:2704:THR:HG21	1.96	0.79
2:D:2170:VAL:HB	2:D:2288:PHE:CE1	2.18	0.79
1:C:1361:TYR:HE2	1:C:1365:ARG:HH12	1.30	0.79
1:C:210:HIS:HA	1:C:213:VAL:HG22	1.63	0.79
2:D:3216:LYS:HD2	2:D:3232:SER:OG	1.83	0.79
2:B:2503:GLY:HA3	2:B:2588:VAL:HB	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1379:ILE:HG23	1:C:1382:GLU:O	1.83	0.79
2:D:1689:MET:HA	2:D:1748:HIS:NE2	1.97	0.79
2:D:2419:LEU:HD23	2:D:2420:GLY:N	1.97	0.79
1:C:552:GLU:OE2	1:C:554:ASN:HB2	1.82	0.79
1:A:23:LEU:HD23	1:A:122:TYR:CD2	2.17	0.79
2:D:3391:ILE:HD12	2:D:3391:ILE:H	1.48	0.79
2:B:2506:LYS:CG	2:B:2769:ASP:HB3	2.07	0.79
2:B:3178:ASN:ND2	2:B:3183:ASN:HA	1.98	0.79
1:A:489:HIS:CG	1:A:688:PRO:HB3	2.18	0.79
1:C:489:HIS:CG	1:C:688:PRO:HB3	2.18	0.79
1:C:1219:LEU:HD12	1:C:1220:LYS:N	1.98	0.79
1:A:12:THR:O	1:A:16:THR:HG23	1.83	0.79
1:C:1319:TRP:CD1	1:C:1490:LEU:HD11	2.18	0.78
1:C:443:PHE:HA	1:C:505:ARG:NH1	1.98	0.78
1:A:244:LYS:NZ	1:A:263:THR:HB	1.98	0.78
2:B:1985:SER:OG	2:B:2050:TYR:CZ	2.36	0.78
1:A:1363:ASN:CB	1:A:1365:ARG:CZ	2.61	0.78
1:A:1454:HIS:O	1:A:1457:THR:HG22	1.82	0.78
1:C:42:HIS:HB3	1:C:201:ALA:HB2	1.65	0.78
1:C:85:ARG:NH1	1:C:86:THR:HG22	1.97	0.78
1:A:484:MET:HB2	1:A:486:ILE:HG22	1.63	0.78
1:C:412:PRO:HG3	1:C:654:TYR:HB2	1.65	0.78
2:B:2106:LEU:HD23	2:B:2164:HIS:CG	2.17	0.78
2:D:1708:PRO:HD3	2:D:1795:PHE:CE1	2.18	0.78
1:C:1352:LEU:HB3	1:C:1353:PRO:HD2	1.63	0.78
1:C:1274:ARG:HH11	1:C:1365:ARG:HH21	1.28	0.78
1:C:549:ILE:HG13	1:C:556:PRO:CG	2.14	0.78
1:A:432:THR:HG23	1:A:435:GLU:H	1.47	0.78
1:A:464:LEU:HD13	1:A:465:PRO:CD	2.13	0.78
2:D:3325:LYS:HG3	2:D:3367:TYR:HB2	1.64	0.78
2:B:3075:HIS:HB2	2:B:3109:LEU:CD1	2.13	0.78
1:A:1161:ILE:HD12	1:A:1171:ALA:HB2	1.66	0.78
2:B:3391:ILE:HD12	2:B:3391:ILE:H	1.48	0.78
2:D:2400:GLN:HG3	2:D:2412:HIS:CE1	2.18	0.78
1:C:810:LEU:HD11	1:C:814:LEU:CD2	2.13	0.78
1:C:1409:GLU:HB2	1:C:1543:ARG:NH2	1.97	0.78
2:D:1819:HIS:O	2:D:1824:ILE:HD12	1.83	0.78
2:B:1689:MET:HA	2:B:1748:HIS:NE2	1.97	0.78
2:D:2149:TRP:HA	2:D:2326:MET:CE	2.13	0.78
1:A:1083:PRO:CA	1:A:1086:LEU:HD13	2.13	0.78
1:C:1239:ARG:NH2	1:C:1242:HIS:NE2	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1476:TYR:CD2	1:C:1477:ARG:HB2	2.18	0.78
1:A:42:HIS:HB3	1:A:201:ALA:HB2	1.65	0.78
1:A:496:THR:HB	1:A:698:LEU:HD21	1.63	0.78
1:A:560:ARG:HA	1:A:613:GLU:OE1	1.83	0.78
2:D:3328:PHE:CE1	2:D:3364:GLY:HA2	2.18	0.78
2:D:3316:PRO:HB3	2:D:3392:HIS:CB	2.10	0.78
1:C:810:LEU:CD1	1:C:814:LEU:HD22	2.14	0.78
1:C:973:ARG:HD2	1:C:1022:VAL:CG1	2.14	0.78
1:C:12:THR:O	1:C:16:THR:HG23	1.83	0.78
2:B:2091:LEU:HD11	2:B:2171:PRO:CG	2.10	0.78
2:B:2106:LEU:HA	2:B:2164:HIS:NE2	1.99	0.78
1:A:1319:TRP:CD1	1:A:1490:LEU:HD21	2.19	0.78
2:B:2494:HIS:HD2	2:B:3124:VAL:O	1.64	0.78
1:A:482:HIS:CD2	1:A:487:PHE:CE2	2.72	0.78
2:B:2345:PRO:O	2:B:2348:VAL:HG22	1.83	0.78
1:A:973:ARG:HD2	1:A:1022:VAL:CG1	2.14	0.78
1:A:1219:LEU:HD12	1:A:1220:LYS:N	1.98	0.78
2:B:2209:VAL:HG13	2:B:2212:HIS:HB2	1.65	0.78
1:C:464:LEU:HD13	1:C:465:PRO:CD	2.13	0.78
1:C:514:TRP:CZ2	1:C:524:PRO:HD3	2.18	0.78
1:A:560:ARG:CD	1:A:609:THR:CA	2.58	0.78
2:B:3316:PRO:CD	2:D:3350:LYS:HZ1	1.79	0.78
2:D:2794:THR:HG23	2:D:2847:ILE:CG1	2.08	0.78
2:B:2931:GLN:NE2	2:B:3018:PRO:HB3	1.99	0.78
2:D:2687:THR:HG21	2:D:2690:TYR:CD2	2.17	0.78
1:A:943:HIS:HE1	1:A:946:TYR:CZ	2.01	0.78
1:C:783:HIS:CE1	1:C:784:VAL:HG23	2.19	0.78
2:B:2385:PHE:HE1	2:B:2485:GLU:HB2	1.46	0.78
1:C:508:THR:HG23	1:C:509:ILE:HG13	1.63	0.78
1:A:210:HIS:HA	1:A:213:VAL:HG22	1.63	0.78
1:A:1249:GLN:CG	1:A:1476:TYR:CD1	2.67	0.78
1:A:1515:TYR:CD2	1:A:1521:TYR:O	2.36	0.78
1:A:464:LEU:CD2	1:A:465:PRO:HA	2.12	0.78
1:C:204:PRO:O	1:C:207:PHE:HB3	1.83	0.78
1:C:244:LYS:NZ	1:C:263:THR:HB	1.98	0.78
1:A:1618:LEU:HG	2:B:1906:VAL:HG11	1.66	0.78
2:B:2999:TRP:CH2	2:B:3074:LEU:HD11	2.18	0.78
2:D:3178:ASN:ND2	2:D:3183:ASN:HA	1.98	0.78
1:A:486:ILE:CB	1:A:662:LEU:HD21	2.11	0.78
2:D:2942:ILE:HD11	2:D:2980:GLN:HG3	1.65	0.78
1:C:305:ALA:HB2	1:C:362:LEU:HD11	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1066:PRO:HB2	1:C:1069:VAL:CG2	2.13	0.78
1:A:1205:HIS:CD2	1:A:1207:GLU:H	2.01	0.78
1:C:660:ILE:O	1:C:663:GLU:HG2	1.83	0.78
1:A:744:ASP:OD1	1:A:801:ASP:HB2	1.83	0.78
2:B:2101:TYR:HD1	2:D:1693:HIS:CB	1.62	0.78
2:B:2195:TRP:HB2	2:D:1922:TYR:CG	2.12	0.78
1:C:1277:PHE:O	1:C:1280:ILE:HG22	1.84	0.78
1:C:1491:GLN:OE1	1:C:1494:ASP:HB2	1.84	0.78
1:A:204:PRO:O	1:A:207:PHE:HB3	1.83	0.78
1:A:1274:ARG:NH1	1:A:1365:ARG:HH21	1.81	0.78
2:D:3346:THR:HA	2:D:3349:PHE:HD2	1.48	0.78
1:C:845:LEU:HD11	1:C:926:PRO:CG	2.13	0.78
1:C:362:LEU:O	1:C:365:THR:HG22	1.83	0.78
1:C:1515:TYR:CD1	1:C:1519:PHE:HB2	2.18	0.78
1:A:1242:HIS:CB	1:A:1476:TYR:CE1	2.63	0.78
1:A:1248:TYR:HA	1:A:1470:ARG:HD2	1.30	0.78
1:A:1249:GLN:HB2	1:A:1470:ARG:HH21	1.47	0.78
1:C:146:LYS:NZ	1:C:148:LYS:HE3	1.99	0.78
2:D:3310:LYS:HD3	2:D:3332:ASP:OD2	1.82	0.78
2:B:3387:ASN:HD21	2:B:3389:LEU:HG	1.45	0.78
2:D:3075:HIS:HB2	2:D:3109:LEU:CD1	2.13	0.78
2:B:2685:MET:SD	2:B:2696:LEU:HD23	2.24	0.78
1:A:1066:PRO:HB2	1:A:1069:VAL:CG2	2.13	0.78
1:A:500:ASP:O	1:A:503:VAL:HG22	1.84	0.78
2:D:2267:VAL:HG23	2:D:2275:LEU:HB2	1.66	0.78
1:C:464:LEU:CD2	1:C:465:PRO:HA	2.12	0.78
1:C:23:LEU:HD23	1:C:122:TYR:CD2	2.17	0.78
2:B:3340:LEU:CB	2:B:3377:THR:HG22	2.14	0.78
1:C:901:PHE:HB3	1:C:902:PRO:HD3	1.66	0.78
2:B:2384:VAL:CG1	2:B:2437:ILE:HG23	2.07	0.78
1:C:1611:LEU:HA	1:C:1614:ASN:ND2	1.99	0.78
2:D:2685:MET:SD	2:D:2696:LEU:HD23	2.24	0.78
1:C:318:VAL:HG11	1:C:341:PHE:CZ	2.19	0.78
1:C:928:TRP:HE1	1:C:934:LEU:HD11	1.49	0.78
1:A:216:ILE:HA	1:A:219:ILE:HD12	1.64	0.78
1:A:660:ILE:O	1:A:663:GLU:HG2	1.83	0.78
2:D:2106:LEU:HD23	2:D:2164:HIS:CG	2.17	0.78
1:C:698:LEU:HD13	1:C:698:LEU:O	1.84	0.78
1:A:89:LEU:HD23	1:A:89:LEU:H	1.46	0.78
2:B:3269:LYS:HE3	2:B:3270:PHE:H	1.49	0.78
2:B:2687:THR:HG21	2:B:2690:TYR:CD2	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:482:HIS:CD2	1:C:487:PHE:CE2	2.72	0.78
2:B:2794:THR:HG23	2:B:2847:ILE:CG1	2.08	0.78
2:B:1819:HIS:O	2:B:1824:ILE:HD12	1.83	0.78
1:A:318:VAL:HG11	1:A:341:PHE:CZ	2.19	0.78
2:D:2732:MET:HE1	2:D:2759:PHE:CZ	2.19	0.78
1:C:821:ILE:O	1:C:821:ILE:HD12	1.83	0.78
2:B:2892:GLY:O	2:B:2893:LYS:HG3	1.84	0.78
1:C:1257:ARG:CB	1:C:1521:TYR:CD1	2.66	0.77
1:C:693:ASP:O	1:C:697:VAL:HG22	1.83	0.77
1:A:1239:ARG:NH2	1:A:1242:HIS:NE2	2.32	0.77
1:A:1277:PHE:O	1:A:1280:ILE:HG22	1.84	0.77
2:B:1994:ARG:HD3	2:B:2035:LEU:HD21	1.66	0.77
1:A:810:LEU:CD1	1:A:814:LEU:HD22	2.14	0.77
2:B:2622:LEU:HD12	2:B:2624:VAL:HG12	1.66	0.77
1:A:412:PRO:HG3	1:A:654:TYR:HB2	1.65	0.77
2:D:3378:ALA:HB1	2:D:3383:LEU:CD1	2.14	0.77
1:C:321:TYR:CD2	1:C:337:LYS:HA	2.19	0.77
1:A:1659:ASP:OD2	2:B:1939:ASP:HB2	1.83	0.77
1:C:256:PRO:HA	1:C:259:ASN:ND2	1.97	0.77
2:B:2182:ILE:HD11	2:B:2224:LEU:HD11	1.65	0.77
2:B:2267:VAL:HG23	2:B:2275:LEU:HB2	1.66	0.77
1:C:1515:TYR:CD2	1:C:1521:TYR:O	2.36	0.77
1:A:509:ILE:HG22	1:A:510:GLY:N	1.98	0.77
2:D:3339:MET:CE	2:D:3389:LEU:HD13	2.14	0.77
2:D:3340:LEU:CB	2:D:3377:THR:HG22	2.14	0.77
1:A:853:LEU:HG	1:A:921:TYR:CE1	2.20	0.77
1:C:500:ASP:O	1:C:503:VAL:HG22	1.84	0.77
2:D:2307:LYS:CE	2:D:2369:HIS:HA	2.14	0.77
2:B:1708:PRO:HD3	2:B:1795:PHE:CE1	2.18	0.77
1:C:1249:GLN:CG	1:C:1476:TYR:CD1	2.67	0.77
1:A:1491:GLN:OE1	1:A:1494:ASP:HB2	1.84	0.77
2:D:2931:GLN:NE2	2:D:3018:PRO:HB3	1.99	0.77
2:B:1982:PHE:HE2	2:B:2047:ILE:HD13	1.49	0.77
1:C:302:ARG:HD2	1:C:361:ASP:OD2	1.85	0.77
1:A:325:PRO:CD	1:A:377:TYR:HA	2.12	0.77
1:A:845:LEU:HD11	1:A:926:PRO:CG	2.13	0.77
2:B:3378:ALA:HB1	2:B:3383:LEU:CD1	2.14	0.77
1:C:1415:ASP:OD1	1:C:1601:ARG:NH1	2.17	0.77
2:D:2106:LEU:HA	2:D:2164:HIS:NE2	1.99	0.77
1:A:1533:ILE:HB	1:A:1534:PRO:HD3	1.65	0.77
1:A:1611:LEU:HA	1:A:1614:ASN:ND2	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3216:LYS:HD2	2:B:3232:SER:OG	1.83	0.77
2:B:2622:LEU:HD12	2:B:2624:VAL:CG1	2.15	0.77
1:A:1345:TRP:CZ2	1:A:1430:LEU:HD22	2.20	0.77
2:B:2572:LEU:HD23	2:B:2764:PHE:HE2	1.48	0.77
1:A:112:ASP:HB2	1:A:116:GLY:HA3	1.64	0.77
2:D:2208:TYR:HB3	2:D:2215:TYR:CD1	2.20	0.77
1:C:724:GLN:NE2	1:C:828:LYS:HE3	1.84	0.77
2:D:1985:SER:OG	2:D:2050:TYR:CZ	2.36	0.77
1:A:1476:TYR:CD2	1:A:1477:ARG:HB2	2.18	0.77
1:A:464:LEU:HD23	1:A:767:LYS:HE3	1.67	0.77
2:D:3292:ILE:HD13	2:D:3293:VAL:N	2.00	0.77
2:D:3248:ARG:CD	2:D:3320:VAL:HG21	2.15	0.77
1:C:1161:ILE:HD12	1:C:1171:ALA:HB2	1.66	0.77
2:B:1693:HIS:CD2	2:D:2101:TYR:CA	2.67	0.77
2:B:1909:MET:HE3	2:B:1934:PRO:C	2.05	0.77
1:A:302:ARG:HD2	1:A:361:ASP:OD2	1.85	0.77
1:C:1345:TRP:CZ2	1:C:1430:LEU:HD22	2.20	0.77
1:C:769:MET:HE2	1:C:770:LYS:H	1.49	0.77
2:D:2572:LEU:HD23	2:D:2764:PHE:HE2	1.48	0.77
2:D:2170:VAL:HG11	2:D:2288:PHE:CD1	2.20	0.77
1:C:1319:TRP:CD1	1:C:1490:LEU:HD21	2.19	0.77
1:C:1533:ILE:HB	1:C:1534:PRO:HD3	1.65	0.77
1:C:560:ARG:HA	1:C:613:GLU:OE1	1.83	0.77
1:A:179:HIS:CE1	1:A:209:HIS:HE2	2.03	0.77
2:B:3292:ILE:HD13	2:B:3293:VAL:N	2.00	0.77
2:B:2437:ILE:HG12	2:B:2441:LEU:CG	2.12	0.77
1:A:901:PHE:HB3	1:A:902:PRO:HD3	1.66	0.77
1:A:743:VAL:O	1:A:759:THR:HG23	1.85	0.77
1:C:482:HIS:CD2	1:C:487:PHE:HE2	2.01	0.77
1:C:1189:ARG:CZ	2:D:2430:ASN:O	2.32	0.77
2:D:2209:VAL:HG13	2:D:2212:HIS:HB2	1.65	0.77
1:C:1189:ARG:NE	2:D:2431:ARG:HA	1.98	0.77
2:B:2208:TYR:HB3	2:B:2215:TYR:CD1	2.19	0.77
1:C:1274:ARG:NH1	1:C:1365:ARG:HH21	1.81	0.77
1:A:89:LEU:HD12	1:A:211:SER:HG	1.47	0.77
1:A:1326:VAL:HG21	1:A:1493:PHE:HE1	1.49	0.77
1:C:179:HIS:CE1	1:C:209:HIS:HE2	2.03	0.77
2:D:2622:LEU:HD12	2:D:2624:VAL:CG1	2.15	0.77
2:B:2550:MET:HG3	2:B:2556:TYR:HE2	1.50	0.77
1:C:549:ILE:CG1	1:C:556:PRO:HG3	2.15	0.77
1:A:146:LYS:NZ	1:A:148:LYS:HE3	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1890:SER:O	2:B:1893:ARG:CG	2.25	0.77
1:C:1142:PHE:HB3	1:C:1195:ILE:CG2	2.15	0.77
2:B:1729:THR:HG22	2:B:1913:LEU:HD21	1.67	0.77
2:D:2622:LEU:HD12	2:D:2624:VAL:HG12	1.66	0.77
2:D:2622:LEU:HG	2:D:2683:TYR:HE1	1.49	0.77
1:A:1409:GLU:CD	1:A:1544:LYS:CE	2.54	0.77
1:C:749:THR:HG22	1:C:753:VAL:H	1.50	0.77
1:C:1083:PRO:CA	1:C:1086:LEU:HD13	2.13	0.77
1:C:1249:GLN:HB2	1:C:1470:ARG:HH21	1.48	0.77
1:C:1356:ILE:HD12	1:C:1388:ARG:HH12	1.49	0.77
1:C:509:ILE:HG22	1:C:510:GLY:N	1.98	0.77
2:D:1763:ARG:O	2:D:1812:PHE:HB3	1.85	0.77
1:A:1216:VAL:HG23	1:A:1224:LEU:HB2	1.66	0.77
2:D:1890:SER:O	2:D:1893:ARG:CG	2.25	0.77
2:B:3339:MET:CE	2:B:3389:LEU:HD13	2.14	0.77
2:D:2506:LYS:CG	2:D:2769:ASP:HB3	2.07	0.77
1:A:578:LEU:HD13	1:A:581:GLN:NE2	1.99	0.77
2:D:3079:HIS:HA	2:D:3090:MET:CE	2.14	0.77
2:D:1982:PHE:HE2	2:D:2047:ILE:HD13	1.50	0.77
1:A:928:TRP:HE1	1:A:934:LEU:HD11	1.49	0.77
1:A:783:HIS:CE1	1:A:784:VAL:HG23	2.19	0.77
2:B:2919:GLU:HA	2:B:2922:GLU:OE2	1.85	0.77
2:B:1714:PRO:HG3	2:B:1922:TYR:CD2	2.20	0.77
2:D:1759:TRP:HZ3	2:D:1877:HIS:HA	1.49	0.77
1:A:482:HIS:CD2	1:A:487:PHE:HE2	2.01	0.77
2:B:2942:ILE:HD11	2:B:2980:GLN:HG3	1.65	0.77
1:C:578:LEU:HD13	1:C:581:GLN:NE2	1.99	0.77
1:A:321:TYR:CD2	1:A:337:LYS:HA	2.19	0.77
1:A:749:THR:HG22	1:A:753:VAL:H	1.50	0.77
2:D:2975:ARG:NH1	2:D:3167:SER:HB3	2.00	0.77
2:D:2513:THR:O	2:D:2516:VAL:HG22	1.84	0.77
2:D:3037:GLU:O	2:D:3039:ILE:HG13	1.85	0.77
2:D:2202:ASN:ND2	2:D:2203:PRO:HD2	2.00	0.76
2:B:2307:LYS:CE	2:B:2369:HIS:HA	2.14	0.76
1:C:1249:GLN:C	1:C:1470:ARG:HH21	1.84	0.76
1:C:1506:HIS:HE1	1:C:1518:SER:HB3	1.49	0.76
1:C:1515:TYR:HE2	1:C:1521:TYR:C	1.89	0.76
1:A:1515:TYR:HE2	1:A:1521:TYR:C	1.88	0.76
1:C:94:TRP:CB	1:C:182:ILE:HD11	2.15	0.76
1:C:853:LEU:HG	1:C:921:TYR:CE1	2.19	0.76
2:B:1786:ASN:O	2:B:1789:ILE:HG22	1.83	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3375:PHE:HE2	2:B:3377:THR:HB	1.50	0.76
2:D:2096:ILE:CG1	2:D:2185:LEU:HD12	2.10	0.76
2:B:3079:HIS:HA	2:B:3090:MET:CE	2.14	0.76
1:A:408:GLY:H	1:A:653:PRO:CG	1.98	0.76
2:B:2256:PHE:CZ	2:B:2294:VAL:HG22	2.20	0.76
2:B:2170:VAL:HG11	2:B:2288:PHE:CD1	2.20	0.76
1:A:1261:ASN:OD1	1:A:1264:ASN:HB2	1.85	0.76
1:A:442:ALA:HB1	1:A:505:ARG:CB	2.15	0.76
2:D:2976:LEU:O	2:D:2979:ILE:HG13	1.85	0.76
1:C:1192:LYS:NZ	1:C:1235:ILE:CD1	2.48	0.76
2:D:3383:LEU:HD13	2:D:3383:LEU:O	1.85	0.76
2:B:2513:THR:O	2:B:2516:VAL:HG22	1.84	0.76
2:B:2151:ARG:NH1	2:B:2351:TYR:HB3	2.01	0.76
1:A:1506:HIS:HE1	1:A:1518:SER:HB3	1.49	0.76
1:A:551:PHE:HE1	1:A:625:PHE:HZ	1.31	0.76
1:A:549:ILE:HG13	1:A:556:PRO:CG	2.14	0.76
1:A:698:LEU:HD13	1:A:698:LEU:O	1.84	0.76
2:B:1759:TRP:HZ3	2:B:1877:HIS:HA	1.49	0.76
2:D:1729:THR:HG22	2:D:1913:LEU:HD21	1.67	0.76
2:B:2976:LEU:HD21	2:B:3155:THR:HG23	1.68	0.76
1:A:362:LEU:O	1:A:365:THR:HG22	1.83	0.76
1:C:408:GLY:H	1:C:653:PRO:CG	1.98	0.76
2:D:2760:GLU:HB3	2:D:2763:ARG:HD2	1.68	0.76
2:B:2178:PRO:HB3	2:B:2226:HIS:HB2	1.68	0.76
1:C:744:ASP:OD1	1:C:801:ASP:HB2	1.83	0.76
2:D:1909:MET:HE1	2:D:1938:PHE:CE2	2.18	0.76
2:B:2627:THR:HG23	2:B:2681:THR:CG2	2.16	0.76
1:A:910:VAL:HG21	1:A:1112:PHE:CD2	2.20	0.76
2:B:2502:HIS:CD2	2:B:2765:ASN:HA	2.21	0.76
2:B:2263:ILE:HD12	2:B:2290:HIS:ND1	2.00	0.76
2:B:1922:TYR:CE1	2:D:2195:TRP:O	2.37	0.76
1:A:70:ARG:O	1:A:73:VAL:HG22	1.85	0.76
2:D:1759:TRP:CZ3	2:D:1877:HIS:HA	2.21	0.76
2:B:1693:HIS:HD2	2:D:2101:TYR:CA	1.97	0.76
2:D:2384:VAL:HG13	2:D:2437:ILE:CG2	2.09	0.76
2:B:2931:GLN:HE22	2:B:3018:PRO:HB3	1.50	0.76
1:C:238:GLN:NE2	1:C:820:VAL:HG12	2.00	0.76
2:D:2345:PRO:O	2:D:2348:VAL:HG22	1.83	0.76
2:B:2975:ARG:NH1	2:B:3167:SER:HB3	2.00	0.76
2:D:2256:PHE:CZ	2:D:2294:VAL:HG22	2.20	0.76
2:B:2195:TRP:O	2:D:1922:TYR:HE1	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1714:PRO:HG3	2:D:1922:TYR:CD2	2.20	0.76
1:A:76:MET:O	1:A:80:LEU:HD22	1.86	0.76
1:C:910:VAL:HG21	1:C:1112:PHE:CD2	2.20	0.76
2:B:1759:TRP:CZ3	2:B:1877:HIS:HA	2.21	0.76
1:A:928:TRP:HE1	1:A:934:LEU:CD1	1.99	0.76
2:B:1778:PRO:CB	2:D:1817:LYS:HD3	2.16	0.76
2:B:2177:LYS:NZ	2:B:2364:GLY:HA2	2.00	0.76
2:B:3037:GLU:O	2:B:3039:ILE:HG13	1.86	0.76
2:D:2182:ILE:HG23	2:D:2183:PRO:HD2	1.67	0.76
1:A:1356:ILE:HD12	1:A:1388:ARG:HH12	1.49	0.76
1:A:464:LEU:HD12	1:A:551:PHE:CE2	2.21	0.76
2:B:3201:PHE:HB2	2:B:3293:VAL:HG23	1.68	0.76
2:D:2627:THR:HG23	2:D:2681:THR:CG2	2.16	0.76
1:A:1406:TYR:HA	1:A:1543:ARG:NH2	2.00	0.76
2:D:3275:LYS:HG3	2:D:3282:LEU:CD1	2.16	0.76
1:A:1022:VAL:HG21	1:A:1041:LEU:HD23	1.67	0.76
2:B:2502:HIS:CE1	2:B:3128:HIS:CE1	2.74	0.76
1:C:117:LYS:HD3	1:C:119:HIS:CE1	2.21	0.76
2:B:2760:GLU:HB3	2:B:2763:ARG:HD2	1.68	0.76
1:A:117:LYS:HD3	1:A:119:HIS:CE1	2.21	0.76
2:B:2182:ILE:HG23	2:B:2183:PRO:HD2	1.67	0.76
2:B:2202:ASN:ND2	2:B:2203:PRO:HD2	2.00	0.76
2:D:2542:HIS:HA	2:D:2559:CYS:SG	2.25	0.76
1:C:285:MET:HE3	1:C:290:LEU:CD2	2.15	0.76
2:B:3346:THR:HA	2:B:3349:PHE:HD2	1.48	0.76
1:A:1415:ASP:OD1	1:A:1601:ARG:NH1	2.17	0.76
2:D:2178:PRO:HB3	2:D:2226:HIS:HB2	1.68	0.76
1:C:301:ALA:HB1	1:C:404:HIS:HB3	1.68	0.76
1:C:1124:LEU:HD22	1:C:1128:GLN:HG2	1.67	0.76
1:C:1261:ASN:OD1	1:C:1264:ASN:HB2	1.85	0.76
1:C:551:PHE:HE1	1:C:625:PHE:HZ	1.31	0.76
2:D:3269:LYS:HE3	2:D:3270:PHE:H	1.49	0.76
2:D:3353:VAL:HG22	2:D:3381:THR:HG22	1.67	0.76
2:B:3044:LYS:HD2	2:B:3180:HIS:CE1	2.21	0.76
2:B:3353:VAL:HG22	2:B:3381:THR:HG22	1.67	0.76
2:D:1994:ARG:HD3	2:D:2035:LEU:HD21	1.66	0.76
2:D:2931:GLN:HE22	2:D:3018:PRO:HB3	1.50	0.76
1:A:301:ALA:HB1	1:A:404:HIS:HB3	1.68	0.76
2:D:2182:ILE:CG2	2:D:2183:PRO:HD2	2.16	0.76
2:D:2263:ILE:HD12	2:D:2290:HIS:ND1	2.00	0.76
2:B:2356:TYR:HE2	2:B:2358:TYR:CZ	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2542:HIS:HA	2:B:2559:CYS:SG	2.25	0.76
2:B:3056:LEU:HD11	2:B:3191:LEU:HD23	1.68	0.76
1:A:1157:VAL:CG2	1:A:1216:VAL:HG12	2.13	0.76
2:B:2976:LEU:O	2:B:2979:ILE:HG13	1.85	0.76
2:B:3144:PHE:O	2:B:3149:VAL:HG11	1.86	0.76
1:A:310:LYS:HZ3	1:A:351:LYS:HE2	1.51	0.76
1:A:1124:LEU:HD22	1:A:1128:GLN:HG2	1.67	0.76
2:D:3200:VAL:HG12	2:D:3255:THR:HA	1.67	0.76
1:C:464:LEU:HD23	1:C:767:LYS:HE3	1.67	0.75
1:A:1319:TRP:CD1	1:A:1490:LEU:HD11	2.18	0.75
1:A:1319:TRP:CG	1:A:1490:LEU:HD21	2.21	0.75
2:B:3219:ILE:HD13	2:B:3271:ARG:HD3	1.68	0.75
2:B:3248:ARG:CD	2:B:3320:VAL:HG21	2.15	0.75
2:D:3002:THR:HG21	2:D:3041:GLN:CD	2.06	0.75
2:D:3044:LYS:HD2	2:D:3180:HIS:CE1	2.21	0.75
2:D:3144:PHE:O	2:D:3149:VAL:HG11	1.86	0.75
2:B:2627:THR:CG2	2:B:2683:TYR:HB2	2.11	0.75
1:A:238:GLN:NE2	1:A:820:VAL:HG12	2.00	0.75
1:A:1192:LYS:NZ	1:A:1235:ILE:CD1	2.48	0.75
2:D:3039:ILE:HG22	2:D:3040:PHE:H	1.51	0.75
1:C:442:ALA:HB1	1:C:505:ARG:CB	2.15	0.75
1:A:11:LEU:HD11	1:A:90:PRO:CG	2.16	0.75
1:A:1361:TYR:HE2	1:A:1365:ARG:HH12	1.30	0.75
1:C:59:ILE:HG21	1:C:64:THR:HB	1.67	0.75
1:C:70:ARG:O	1:C:73:VAL:HG22	1.85	0.75
2:D:3201:PHE:HB2	2:D:3293:VAL:HG23	1.68	0.75
2:D:3375:PHE:HE2	2:D:3377:THR:HB	1.50	0.75
2:B:3002:THR:HG21	2:B:3041:GLN:CD	2.06	0.75
1:A:597:GLN:O	1:A:600:ILE:HG22	1.86	0.75
1:A:853:LEU:HG	1:A:921:TYR:CZ	2.21	0.75
1:C:781:ILE:CG2	1:C:785:LEU:HG	2.16	0.75
1:C:1022:VAL:HG21	1:C:1041:LEU:HD23	1.67	0.75
2:D:2604:THR:O	2:D:2607:THR:HG22	1.86	0.75
2:B:2950:ASN:HB3	2:B:2960:TYR:C	2.06	0.75
2:D:2356:TYR:HE2	2:D:2358:TYR:CZ	2.04	0.75
2:B:2101:TYR:HB3	2:D:1693:HIS:CB	2.14	0.75
2:B:2334:ASN:ND2	2:B:2339:THR:HG21	2.01	0.75
1:A:1638:SER:O	1:A:1641:ILE:HG22	1.85	0.75
2:B:1763:ARG:O	2:B:1812:PHE:HB3	1.85	0.75
1:A:1142:PHE:HB3	1:A:1195:ILE:CG2	2.15	0.75
1:C:1216:VAL:HG23	1:C:1224:LEU:HB2	1.65	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1566:VAL:HG13	1:C:1625:GLU:O	1.86	0.75
1:C:1409:GLU:CD	1:C:1544:LYS:CE	2.54	0.75
2:D:2645:PHE:HA	2:D:2648:ARG:HG2	1.69	0.75
2:B:1960:ILE:O	2:B:1963:ILE:HG22	1.86	0.75
2:B:2568:HIS:HA	2:B:2758:VAL:HG11	1.69	0.75
2:D:1960:ILE:O	2:D:1963:ILE:HG22	1.86	0.75
2:B:2604:THR:CA	2:B:2607:THR:HG22	2.16	0.75
2:D:2177:LYS:NZ	2:D:2364:GLY:HA2	2.01	0.75
2:D:2919:GLU:HA	2:D:2922:GLU:OE2	1.85	0.75
2:D:2151:ARG:NH1	2:D:2351:TYR:HB3	2.01	0.75
1:C:1326:VAL:HG21	1:C:1493:PHE:HE1	1.49	0.75
1:A:59:ILE:HG21	1:A:64:THR:HB	1.67	0.75
1:A:1278:LEU:HD12	1:A:1279:GLU:N	2.01	0.75
2:B:2494:HIS:CE1	2:B:3125:LYS:HG2	2.19	0.75
2:B:1843:PHE:CE1	2:B:1884:ILE:HG13	2.22	0.75
2:B:3265:ASP:HB2	2:B:3292:ILE:HD12	1.69	0.75
2:B:3308:ILE:CG2	2:B:3312:VAL:HB	2.16	0.75
2:B:3275:LYS:HG3	2:B:3282:LEU:CD1	2.16	0.75
1:A:852:GLU:HB2	1:A:921:TYR:CE1	2.21	0.75
1:C:1406:TYR:HA	1:C:1543:ARG:NH2	2.00	0.75
1:C:1319:TRP:CG	1:C:1490:LEU:HD21	2.21	0.75
1:A:94:TRP:CB	1:A:182:ILE:HD11	2.15	0.75
1:A:549:ILE:CG1	1:A:556:PRO:HG3	2.15	0.75
1:A:1607:ILE:HD12	1:A:1611:LEU:CD1	2.17	0.75
1:A:1161:ILE:CD1	1:A:1171:ALA:HB2	2.17	0.75
1:C:165:GLN:OE1	1:C:170:LYS:HG3	1.87	0.75
2:B:2950:ASN:HB3	2:B:2960:TYR:O	1.86	0.75
2:B:3200:VAL:HG12	2:B:3255:THR:HA	1.67	0.75
2:D:2321:LEU:HD22	2:D:2321:LEU:H	1.52	0.75
2:B:2243:ALA:HA	2:B:2246:GLN:HE21	1.50	0.75
1:C:1254:SER:HA	1:C:1516:GLN:HG3	1.69	0.75
1:C:1327:VAL:HG11	1:C:1452:PHE:HE1	1.49	0.75
1:A:1321:ARG:O	1:A:1324:VAL:HG12	1.86	0.75
1:C:11:LEU:HD11	1:C:90:PRO:CG	2.16	0.75
2:B:3383:LEU:HD13	2:B:3383:LEU:O	1.85	0.75
1:C:674:SER:HB3	1:C:675:PRO:HD3	1.69	0.75
2:B:2810:SER:HB3	2:B:2822:PHE:CE1	2.22	0.75
1:C:1002:ASP:OD2	1:C:1065:LYS:HE3	1.87	0.75
2:B:2182:ILE:CG2	2:B:2183:PRO:HD2	2.16	0.75
1:C:521:THR:HA	1:C:567:PHE:CD1	2.22	0.75
1:C:22:ALA:HB1	1:C:83:LYS:CB	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3316:PRO:HB3	2:B:3392:HIS:CB	2.10	0.75
2:D:3308:ILE:CG2	2:D:3312:VAL:HB	2.16	0.75
1:A:1566:VAL:HG13	1:A:1625:GLU:O	1.86	0.75
2:D:1757:TRP:HB2	2:D:1876:ILE:HG21	1.68	0.75
2:D:1843:PHE:CE1	2:D:1884:ILE:HG13	2.22	0.75
1:C:743:VAL:O	1:C:759:THR:HG23	1.85	0.75
2:D:2472:LEU:HD22	2:D:2473:PRO:CD	2.16	0.75
1:C:928:TRP:HE1	1:C:934:LEU:CD1	1.99	0.75
1:A:1124:LEU:HD22	1:A:1128:GLN:CG	2.17	0.75
1:C:231:PRO:HG2	1:C:232:LYS:HE3	1.69	0.75
1:A:674:SER:HB3	1:A:675:PRO:HD3	1.69	0.75
2:D:2106:LEU:HD11	2:D:2161:LEU:HD11	1.69	0.75
2:D:2243:ALA:HB2	2:D:2255:GLN:CG	2.16	0.75
2:D:2334:ASN:ND2	2:D:2339:THR:HG21	2.01	0.75
1:C:1285:THR:O	1:C:1289:ILE:HG23	1.87	0.75
1:C:1321:ARG:O	1:C:1324:VAL:HG12	1.86	0.75
1:A:1285:THR:O	1:A:1289:ILE:HG23	1.87	0.75
1:C:852:GLU:HB2	1:C:921:TYR:CE1	2.21	0.75
1:C:913:GLU:OE2	1:C:924:ALA:HB1	1.86	0.75
1:C:1157:VAL:CG2	1:C:1216:VAL:HG12	2.13	0.75
2:B:2622:LEU:O	2:B:2622:LEU:HD13	1.86	0.75
2:D:2622:LEU:HD13	2:D:2622:LEU:O	1.86	0.75
2:B:2604:THR:HA	2:B:2607:THR:CG2	2.17	0.75
2:B:2195:TRP:C	2:D:1922:TYR:HE1	1.88	0.75
1:C:464:LEU:HD12	1:C:551:PHE:CE2	2.21	0.75
1:A:544:PHE:CD1	1:A:631:PHE:HZ	2.05	0.75
1:C:94:TRP:CD1	1:C:155:LEU:HD22	2.18	0.75
1:C:1607:ILE:HD12	1:C:1611:LEU:CD1	2.17	0.75
1:A:913:GLU:OE2	1:A:924:ALA:HB1	1.86	0.75
1:A:989:THR:CG2	1:A:991:ILE:HG22	2.17	0.75
1:C:387:ASN:OD1	1:C:389:THR:HG22	1.87	0.75
2:D:2568:HIS:HA	2:D:2758:VAL:HG11	1.68	0.75
2:D:2550:MET:HG3	2:D:2556:TYR:HE2	1.50	0.75
2:D:2255:GLN:O	2:D:2258:VAL:HG12	1.87	0.74
1:C:1249:GLN:CG	1:C:1476:TYR:HB3	2.16	0.74
1:A:65:PHE:HB3	1:A:66:PRO:HD3	1.69	0.74
1:A:1476:TYR:CD2	1:A:1477:ARG:N	2.55	0.74
1:A:583:LEU:CD1	1:A:718:MET:HE1	2.17	0.74
1:C:76:MET:O	1:C:80:LEU:HD22	1.86	0.74
1:C:597:GLN:O	1:C:600:ILE:HG22	1.86	0.74
1:C:1638:SER:O	1:C:1641:ILE:HG22	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2605:PHE:HE2	2:B:2614:PHE:CE2	2.04	0.74
2:D:2508:ILE:O	2:D:2511:LEU:HG	1.87	0.74
1:A:231:PRO:HG2	1:A:232:LYS:HE3	1.69	0.74
2:D:3189:GLU:HA	2:D:3192:ARG:HD3	1.68	0.74
2:D:2810:SER:HB3	2:D:2822:PHE:CE1	2.22	0.74
2:D:2279:HIS:NE2	2:D:2280:TYR:CD2	2.35	0.74
2:B:2173:TRP:HE3	2:B:2286:ILE:HD11	1.53	0.74
1:C:442:ALA:O	1:C:505:ARG:HD3	1.87	0.74
1:A:1254:SER:HA	1:A:1516:GLN:HG3	1.69	0.74
1:A:466:ALA:CB	1:A:767:LYS:HD3	2.03	0.74
2:B:2401:PHE:CE1	2:B:2460:ILE:HG12	2.22	0.74
2:B:1909:MET:HE1	2:B:1938:PHE:CZ	2.20	0.74
2:D:2976:LEU:HD21	2:D:3155:THR:HG23	1.68	0.74
1:C:1487:HIS:CE1	2:D:2038:ASP:OD1	2.40	0.74
2:D:3204:PHE:HB3	2:D:3206:LEU:CD2	2.17	0.74
2:D:2604:THR:CA	2:D:2607:THR:HG22	2.17	0.74
2:D:2962:CYS:HB3	2:D:3143:PRO:HD3	1.68	0.74
2:D:2950:ASN:HB3	2:D:2960:TYR:C	2.06	0.74
2:D:2256:PHE:O	2:D:2259:MET:HG2	1.87	0.74
2:B:2115:PHE:HA	2:B:2118:ILE:HG22	1.69	0.74
2:B:2256:PHE:O	2:B:2259:MET:HG2	1.87	0.74
1:A:1091:ASN:O	1:A:1097:LYS:NZ	2.20	0.74
1:C:544:PHE:CD1	1:C:631:PHE:HZ	2.05	0.74
1:A:1257:ARG:CG	1:A:1521:TYR:CD1	2.71	0.74
1:A:1278:LEU:HB3	1:A:1373:PRO:HG2	1.69	0.74
1:A:442:ALA:O	1:A:505:ARG:HD3	1.87	0.74
1:C:853:LEU:HG	1:C:921:TYR:CZ	2.21	0.74
2:B:3102:PHE:CZ	2:B:3106:HIS:CE1	2.75	0.74
1:C:1161:ILE:CD1	1:C:1171:ALA:HB2	2.17	0.74
2:D:2130:ASP:HB3	2:D:2132:HIS:ND1	2.01	0.74
1:A:1554:LEU:HG	1:A:1602:LEU:CD2	2.18	0.74
2:D:2175:TRP:HD1	2:D:2236:LEU:HG	1.52	0.74
1:C:1278:LEU:HD12	1:C:1279:GLU:N	2.01	0.74
1:A:152:HIS:HA	1:A:156:MET:SD	2.27	0.74
1:A:22:ALA:HB1	1:A:83:LYS:CB	2.17	0.74
1:C:123:TRP:CZ3	1:C:208:LEU:HD21	2.22	0.74
2:B:3056:LEU:O	2:B:3056:LEU:HD13	1.87	0.74
2:D:1759:TRP:CH2	2:D:1877:HIS:HB2	2.22	0.74
2:D:1811:LEU:HG	2:D:1853:TRP:HZ3	1.49	0.74
2:B:2622:LEU:HG	2:B:2683:TYR:HE1	1.50	0.74
2:D:2628:ARG:NH2	2:D:2696:LEU:HB2	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:781:ILE:CG2	1:A:785:LEU:HG	2.16	0.74
2:B:3204:PHE:HB3	2:B:3206:LEU:CD2	2.17	0.74
2:D:2544:ASN:HB2	2:D:2689:GLU:OE1	1.88	0.74
1:A:32:SER:HA	1:A:37:LYS:HG3	1.70	0.74
2:B:2243:ALA:HB2	2:B:2255:GLN:CG	2.16	0.74
1:C:1476:TYR:CD2	1:C:1477:ARG:N	2.55	0.74
1:C:1322:LEU:HD11	1:C:1506:HIS:HB3	1.69	0.74
1:C:638:ARG:O	1:C:642:VAL:HG23	1.88	0.74
1:A:59:ILE:CG2	1:A:62:MET:HB2	2.17	0.74
1:C:906:ARG:O	1:C:909:THR:HG22	1.88	0.74
1:C:462:HIS:HD2	1:C:480:CYS:HB2	1.52	0.74
2:B:2645:PHE:HA	2:B:2648:ARG:HG2	1.69	0.74
2:B:1931:PHE:HE1	2:B:1942:LYS:HD3	1.53	0.74
1:C:620:LEU:CD1	1:C:768:GLU:HB3	2.18	0.74
2:B:2604:THR:O	2:B:2607:THR:HG22	1.86	0.74
1:C:1436:LYS:HD2	1:C:1437:TYR:HE1	1.52	0.74
1:C:32:SER:HA	1:C:37:LYS:HG3	1.69	0.74
2:D:2159:GLN:HG2	2:D:2336:ASN:ND2	2.03	0.74
2:B:2183:PRO:O	2:B:2187:THR:HG23	1.87	0.74
2:B:2538:ILE:HD12	2:B:2577:MET:CE	1.81	0.74
2:D:3056:LEU:HD13	2:D:3056:LEU:O	1.87	0.74
1:C:487:PHE:HB3	1:C:488:PRO:HD3	1.70	0.74
1:C:1614:ASN:HA	2:D:2779:LYS:HE3	1.69	0.74
1:C:1648:PHE:HB3	2:D:1903:ASN:O	1.87	0.74
1:A:1345:TRP:CZ2	1:A:1400:PHE:HE2	2.05	0.74
2:D:2646:PHE:CZ	2:D:2676:TRP:HZ3	2.05	0.74
1:C:1484:GLN:NE2	2:D:2065:ILE:CD1	2.50	0.74
2:B:2962:CYS:HB3	2:B:3143:PRO:HD3	1.68	0.74
2:B:2508:ILE:O	2:B:2511:LEU:HG	1.87	0.74
2:D:2950:ASN:HB3	2:D:2960:TYR:O	1.86	0.74
1:A:880:LYS:HB2	1:A:890:LYS:HB3	1.69	0.74
1:C:1525:ASN:OD1	1:C:1527:GLU:HG3	1.88	0.74
2:D:2243:ALA:HA	2:D:2246:GLN:HE21	1.50	0.74
1:A:1249:GLN:C	1:A:1470:ARG:HH21	1.86	0.74
1:A:1249:GLN:CG	1:A:1476:TYR:HB3	2.16	0.74
2:D:3347:ALA:O	2:D:3350:LYS:HD3	1.88	0.74
1:A:1618:LEU:HD11	2:B:1906:VAL:CG2	2.17	0.74
2:B:1759:TRP:CH2	2:B:1877:HIS:HB2	2.23	0.74
1:C:566:LEU:HD11	1:C:608:TRP:CD2	2.23	0.74
1:C:1549:VAL:H	1:C:1608:THR:CG2	1.98	0.74
2:B:2385:PHE:HB2	2:B:2483:ILE:HB	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3039:ILE:HG22	2:B:3040:PHE:H	1.51	0.74
2:D:2115:PHE:HA	2:D:2118:ILE:HG22	1.69	0.74
1:C:1356:ILE:HG13	1:C:1357:SER:N	2.02	0.74
1:C:668:LYS:HB3	1:C:669:PRO:HA	1.70	0.74
1:C:241:LEU:HD11	1:C:265:ALA:CB	2.18	0.74
1:A:1568:VAL:CG1	1:A:1622:PHE:HB2	2.17	0.74
2:B:1811:LEU:HG	2:B:1853:TRP:HZ3	1.49	0.74
2:D:1909:MET:HE2	2:D:1938:PHE:CZ	2.21	0.74
2:D:3056:LEU:HD11	2:D:3191:LEU:HD23	1.68	0.74
2:D:3102:PHE:CZ	2:D:3106:HIS:CE1	2.75	0.74
1:A:165:GLN:OE1	1:A:170:LYS:HG3	1.87	0.74
1:A:285:MET:HE3	1:A:290:LEU:CD2	2.18	0.74
1:A:464:LEU:CD2	1:A:767:LYS:HE3	2.18	0.74
1:A:469:PRO:HG3	1:A:477:TYR:CD2	2.22	0.74
1:C:59:ILE:CG2	1:C:62:MET:HB2	2.17	0.74
1:A:1142:PHE:HD1	1:A:1195:ILE:HG21	1.52	0.74
1:C:1568:VAL:CG1	1:C:1622:PHE:HB2	2.17	0.74
2:D:3216:LYS:HG2	2:D:3218:TYR:CZ	2.23	0.74
2:D:2604:THR:HA	2:D:2607:THR:CG2	2.17	0.74
2:D:2605:PHE:HE2	2:D:2614:PHE:CE2	2.05	0.74
2:B:2106:LEU:HD11	2:B:2161:LEU:HD11	1.69	0.74
2:B:2115:PHE:O	2:B:2118:ILE:HG22	1.88	0.74
2:B:2577:MET:CE	2:B:2698:TRP:CZ2	2.71	0.74
2:D:2539:ALA:O	2:D:2692:THR:HG21	1.88	0.74
1:C:464:LEU:CD2	1:C:767:LYS:HE3	2.18	0.74
1:A:241:LEU:HD11	1:A:265:ALA:HB2	1.69	0.74
2:B:1985:SER:CB	2:B:2050:TYR:OH	2.36	0.74
1:A:1322:LEU:HD11	1:A:1506:HIS:HB3	1.69	0.74
1:A:521:THR:HA	1:A:567:PHE:CD1	2.22	0.74
1:C:21:ALA:HA	1:C:24:ARG:HD3	1.70	0.74
2:D:3321:LYS:O	2:D:3324:THR:HG23	1.88	0.74
2:B:1729:THR:HG21	2:B:1913:LEU:HD21	1.70	0.74
2:B:2628:ARG:NH2	2:B:2696:LEU:HB2	2.01	0.74
1:C:999:LEU:HD13	1:C:1129:LEU:HD21	1.70	0.74
2:B:2646:PHE:CZ	2:B:2676:TRP:HZ3	2.05	0.74
1:A:387:ASN:OD1	1:A:389:THR:HG22	1.87	0.74
1:A:1436:LYS:HD2	1:A:1437:TYR:HE1	1.52	0.74
2:D:2810:SER:HB3	2:D:2822:PHE:HE1	1.53	0.74
2:B:2377:ASP:HA	2:B:2380:HIS:ND1	2.03	0.74
2:B:2175:TRP:HD1	2:B:2236:LEU:HG	1.53	0.73
2:B:2255:GLN:O	2:B:2258:VAL:HG12	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3216:LYS:HG2	2:B:3218:TYR:CZ	2.23	0.73
2:B:2472:LEU:HD22	2:B:2473:PRO:CD	2.16	0.73
1:A:1395:PHE:CZ	1:A:1430:LEU:HB3	2.23	0.73
1:C:1395:PHE:CZ	1:C:1430:LEU:HB3	2.23	0.73
1:C:1345:TRP:CZ2	1:C:1400:PHE:HE2	2.05	0.73
2:B:1953:ALA:HB3	2:B:1955:TRP:HZ3	1.52	0.73
2:B:2130:ASP:HB3	2:B:2132:HIS:ND1	2.01	0.73
1:A:1002:ASP:OD2	1:A:1065:LYS:HE3	1.87	0.73
1:C:1554:LEU:HG	1:C:1602:LEU:CD2	2.17	0.73
2:D:2385:PHE:HB2	2:D:2483:ILE:HB	1.67	0.73
2:D:2154:THR:HA	2:D:2288:PHE:CE2	2.23	0.73
2:B:2321:LEU:HD22	2:B:2321:LEU:H	1.52	0.73
2:B:1747:LYS:HZ1	2:D:2094:ARG:NE	1.84	0.73
1:C:1427:LEU:HD11	1:C:1431:LEU:CD1	2.18	0.73
1:A:487:PHE:HB3	1:A:488:PRO:HD3	1.70	0.73
2:D:3144:PHE:HD2	2:D:3155:THR:CG2	2.01	0.73
2:D:3160:LEU:HD22	2:D:3161:PRO:HD2	1.70	0.73
1:C:1124:LEU:HD22	1:C:1128:GLN:CG	2.17	0.73
2:B:3094:GLU:OE2	2:B:3239:ALA:HB3	1.88	0.73
1:A:441:GLU:O	1:A:445:LYS:HG2	1.88	0.73
2:D:2115:PHE:O	2:D:2118:ILE:HG22	1.88	0.73
1:C:1520:GLY:O	1:C:1521:TYR:CD1	2.42	0.73
2:B:1670:ASP:HB3	2:B:1673:GLN:HG3	1.71	0.73
2:B:1757:TRP:HB2	2:B:1876:ILE:HG21	1.68	0.73
2:B:3248:ARG:CZ	2:B:3320:VAL:HG21	2.18	0.73
2:B:1973:VAL:HG22	2:B:2027:THR:HA	1.70	0.73
1:A:1398:ASP:OD1	1:A:1401:TYR:HB3	1.88	0.73
2:B:3189:GLU:HA	2:B:3192:ARG:HD3	1.68	0.73
1:A:1525:ASN:OD1	1:A:1527:GLU:HG3	1.88	0.73
1:A:1011:TYR:OH	1:A:1049:THR:HG22	1.88	0.73
2:D:2214:THR:HG22	2:D:2215:TYR:H	1.53	0.73
2:B:2154:THR:HA	2:B:2288:PHE:CE2	2.23	0.73
2:D:2577:MET:CE	2:D:2698:TRP:CZ2	2.71	0.73
2:D:1985:SER:CB	2:D:2050:TYR:OH	2.36	0.73
1:C:469:PRO:HG3	1:C:477:TYR:CD2	2.22	0.73
1:A:1251:GLU:O	1:A:1516:GLN:HB2	1.87	0.73
1:C:152:HIS:HA	1:C:156:MET:SD	2.27	0.73
2:D:1847:HIS:ND1	2:D:1881:THR:HG21	1.99	0.73
2:B:3321:LYS:O	2:B:3324:THR:HG23	1.88	0.73
2:B:3347:ALA:HB2	2:D:3315:PRO:CG	2.19	0.73
1:A:566:LEU:HD11	1:A:608:TRP:CD2	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:906:ARG:O	1:A:909:THR:HG22	1.88	0.73
1:C:989:THR:CG2	1:C:991:ILE:HG22	2.17	0.73
1:A:318:VAL:HG11	1:A:341:PHE:CE1	2.24	0.73
1:C:1557:ASN:CG	1:C:1588:ILE:HG12	2.09	0.73
1:C:769:MET:CE	1:C:769:MET:HA	2.18	0.73
2:D:2893:LYS:HG2	2:D:2894:HIS:H	1.53	0.73
2:D:2183:PRO:O	2:D:2187:THR:HG23	1.87	0.73
2:B:1914:LYS:HD3	2:B:1918:PHE:HE1	1.53	0.73
2:D:1914:LYS:HD3	2:D:1918:PHE:HE1	1.54	0.73
1:C:1361:TYR:HE2	1:C:1365:ARG:NH1	1.87	0.73
1:C:19:LEU:HD13	1:C:85:ARG:NE	2.04	0.73
2:D:3183:ASN:ND2	2:D:3186:GLU:HB2	2.04	0.73
1:A:1153:LYS:CG	1:A:1176:LEU:HD21	2.12	0.73
1:A:1557:ASN:CG	1:A:1588:ILE:HG12	2.09	0.73
2:D:2962:CYS:SG	2:D:3143:PRO:HD3	2.29	0.73
2:D:1969:GLU:HA	2:D:2073:ASP:OD1	1.89	0.73
2:D:2327:ARG:HB3	2:D:2328:PRO:HA	1.69	0.73
2:B:2327:ARG:HB3	2:B:2328:PRO:HA	1.69	0.73
2:B:1707:LEU:HA	2:B:1709:PRO:HD3	1.69	0.73
1:A:724:GLN:NE2	1:A:828:LYS:HE3	1.84	0.73
1:C:1371:THR:O	1:C:1373:PRO:HD3	1.89	0.73
1:A:123:TRP:CZ3	1:A:208:LEU:HD21	2.22	0.73
1:A:1356:ILE:HG13	1:A:1357:SER:N	2.02	0.73
1:A:1515:TYR:CE2	1:A:1521:TYR:CA	2.72	0.73
1:C:234:MET:CE	1:C:241:LEU:HD23	2.18	0.73
2:D:3340:LEU:HD21	2:D:3343:GLY:HA2	1.71	0.73
1:C:1161:ILE:CD1	1:C:1198:LYS:HE2	2.17	0.73
2:D:1729:THR:HG21	2:D:1913:LEU:HD21	1.70	0.73
2:D:2401:PHE:CE1	2:D:2460:ILE:HG12	2.22	0.73
2:B:2500:ALA:HB2	2:B:3131:SER:HA	1.70	0.73
1:C:1484:GLN:HE22	2:D:2065:ILE:HB	1.51	0.73
2:D:2132:HIS:CD2	2:D:2134:ASN:HB2	2.23	0.73
1:A:912:SER:HB2	1:A:1043:TYR:CE1	2.23	0.73
1:A:1057:GLN:HB2	1:A:1067:TYR:HB2	1.69	0.73
1:C:912:SER:HB2	1:C:1043:TYR:CE1	2.23	0.73
2:B:3028:ASN:O	2:B:3029:GLN:HG3	1.89	0.73
2:D:2173:TRP:HE3	2:D:2286:ILE:HD11	1.53	0.73
1:C:1091:ASN:O	1:C:1097:LYS:NZ	2.20	0.73
1:A:241:LEU:HD11	1:A:265:ALA:CB	2.18	0.73
1:A:1515:TYR:HE2	1:A:1521:TYR:O	1.69	0.73
2:D:1670:ASP:HB3	2:D:1673:GLN:HG3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3048:PHE:CD2	2:D:3052:PHE:HB3	2.24	0.73
2:B:3144:PHE:HD2	2:B:3155:THR:CG2	2.01	0.73
1:C:1566:VAL:HG22	1:C:1626:ILE:HA	1.71	0.73
1:C:130:PHE:CD2	1:C:131:LEU:HG	2.23	0.73
2:D:1931:PHE:HE1	2:D:1942:LYS:HD3	1.53	0.73
1:C:1398:ASP:OD1	1:C:1401:TYR:HB3	1.88	0.73
2:D:1707:LEU:HD21	2:D:2012:LYS:HG3	1.70	0.73
1:C:1251:GLU:O	1:C:1516:GLN:HB2	1.87	0.73
1:A:1361:TYR:HE2	1:A:1365:ARG:NH1	1.87	0.73
1:A:668:LYS:HB3	1:A:669:PRO:HA	1.70	0.73
2:D:3265:ASP:HB2	2:D:3292:ILE:HD12	1.69	0.73
2:D:1988:VAL:HG21	2:D:2005:PHE:CZ	2.24	0.73
2:B:2962:CYS:SG	2:B:3143:PRO:HD3	2.29	0.73
2:D:2546:PRO:HB2	2:D:2555:ASN:ND2	2.03	0.73
1:C:441:GLU:O	1:C:445:LYS:HG2	1.88	0.73
2:D:2243:ALA:HA	2:D:2246:GLN:NE2	2.04	0.73
2:B:2159:GLN:HG2	2:B:2336:ASN:ND2	2.03	0.73
1:A:1566:VAL:HG22	1:A:1626:ILE:HA	1.71	0.73
2:B:1773:SER:HA	2:B:1789:ILE:CD1	2.17	0.73
2:B:3347:ALA:O	2:B:3350:LYS:HD3	1.88	0.73
1:C:1416:PHE:HE2	1:C:1420:LEU:HD22	1.53	0.73
1:A:1628:ILE:HG21	1:A:1636:LEU:HB2	1.71	0.73
1:C:171:PHE:CE2	1:C:175:PHE:HB2	2.24	0.73
2:D:3219:ILE:HD13	2:D:3271:ARG:HD3	1.68	0.73
2:B:2544:ASN:HB2	2:B:2689:GLU:OE1	1.87	0.73
2:B:2149:TRP:HA	2:B:2326:MET:HE1	1.70	0.73
1:A:1088:ALA:H	1:A:1097:LYS:HZ1	1.36	0.73
1:C:1278:LEU:HB3	1:C:1373:PRO:HG2	1.69	0.73
1:A:94:TRP:CD1	1:A:155:LEU:HD22	2.18	0.73
1:C:273:LEU:CD2	1:C:275:TYR:HE2	2.02	0.73
2:B:3048:PHE:CD2	2:B:3052:PHE:HB3	2.24	0.73
1:A:999:LEU:HD13	1:A:1129:LEU:HD21	1.69	0.73
1:A:620:LEU:CD1	1:A:768:GLU:HB3	2.18	0.73
2:B:2307:LYS:HE3	2:B:2369:HIS:CA	2.19	0.72
1:A:1083:PRO:HA	1:A:1086:LEU:CD1	2.18	0.72
1:A:1362:TYR:CE2	1:A:1364:SER:HA	2.24	0.72
1:A:1427:LEU:HD11	1:A:1431:LEU:CD1	2.18	0.72
1:C:241:LEU:HD11	1:C:265:ALA:HB2	1.69	0.72
1:A:956:HIS:O	1:A:958:PRO:HD3	1.89	0.72
2:D:2142:GLY:HA3	2:D:2427:TRP:CD2	2.24	0.72
1:A:171:PHE:CE2	1:A:175:PHE:HB2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:250:TRP:CZ3	1:C:252:ASP:HB2	2.23	0.72
1:C:1011:TYR:OH	1:C:1049:THR:HG22	1.88	0.72
2:D:2377:ASP:HA	2:D:2380:HIS:ND1	2.03	0.72
2:B:2539:ALA:O	2:B:2692:THR:HG21	1.88	0.72
1:A:1371:THR:O	1:A:1373:PRO:HD3	1.89	0.72
1:C:8:VAL:CG1	1:C:104:LEU:HD12	2.15	0.72
1:C:148:LYS:CD	1:C:150:GLY:O	2.36	0.72
2:D:1773:SER:HA	2:D:1789:ILE:CD1	2.17	0.72
2:B:1990:PHE:HB3	2:B:2045:VAL:HG22	1.69	0.72
2:B:3243:PRO:HG2	2:D:3354:PRO:CA	2.19	0.72
1:A:130:PHE:CD2	1:A:131:LEU:HG	2.23	0.72
2:D:2258:VAL:CG2	2:D:2416:ILE:HG23	2.20	0.72
1:C:1293:HIS:CE1	1:C:1451:PHE:HE2	2.07	0.72
1:A:1242:HIS:HB3	1:A:1476:TYR:CE1	2.22	0.72
2:D:3248:ARG:CZ	2:D:3320:VAL:HG21	2.18	0.72
1:A:1549:VAL:H	1:A:1608:THR:CG2	1.98	0.72
1:A:1549:VAL:HG22	1:A:1607:ILE:HD11	1.72	0.72
2:B:2974:HIS:HE1	3:B:9008:CUO:O2	1.68	0.72
2:B:1694:SER:CA	2:D:2101:TYR:CE2	2.71	0.72
1:C:1036:THR:HG22	1:C:1042:PHE:CD2	2.19	0.72
2:D:1990:PHE:HB3	2:D:2045:VAL:HG22	1.69	0.72
1:A:1416:PHE:HE2	1:A:1420:LEU:HD22	1.53	0.72
2:B:2735:PRO:HG3	2:B:2754:LYS:HE3	1.70	0.72
2:B:2132:HIS:CD2	2:B:2134:ASN:HB2	2.24	0.72
2:B:2546:PRO:HB2	2:B:2555:ASN:ND2	2.03	0.72
1:C:1057:GLN:HB2	1:C:1067:TYR:HB2	1.69	0.72
2:B:2387:GLY:CA	2:B:2432:LEU:HD21	2.14	0.72
2:B:1707:LEU:HD21	2:B:2012:LYS:HG3	1.70	0.72
2:B:2193:ASP:O	2:B:2194:VAL:HG23	1.89	0.72
1:C:1083:PRO:HA	1:C:1086:LEU:CD1	2.18	0.72
1:A:19:LEU:HD13	1:A:85:ARG:NE	2.03	0.72
1:C:956:HIS:O	1:C:958:PRO:HD3	1.89	0.72
1:C:1142:PHE:HD1	1:C:1195:ILE:HG21	1.52	0.72
1:C:1153:LYS:HA	1:C:1176:LEU:HD23	1.71	0.72
2:D:3044:LYS:HG3	2:D:3045:PHE:H	1.52	0.72
2:B:1953:ALA:HB3	2:B:1955:TRP:CZ3	2.25	0.72
2:D:3028:ASN:O	2:D:3029:GLN:HG3	1.89	0.72
2:D:2153:TYR:CZ	2:D:2157:PHE:HE1	2.08	0.72
1:A:234:MET:CE	1:A:241:LEU:HD23	2.18	0.72
1:A:273:LEU:CD2	1:A:275:TYR:HE2	2.02	0.72
1:A:1442:LEU:CA	1:A:1589:LEU:HD11	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1257:ARG:HG3	1:A:1521:TYR:HE1	0.87	0.72
1:A:698:LEU:HD12	1:A:700:TYR:CD1	2.23	0.72
2:D:3312:VAL:HG12	2:D:3389:LEU:HD23	1.71	0.72
1:A:1161:ILE:CD1	1:A:1198:LYS:HE2	2.17	0.72
2:B:3312:VAL:HG12	2:B:3389:LEU:HD23	1.71	0.72
1:A:462:HIS:HD2	1:A:480:CYS:HB2	1.52	0.72
1:C:810:LEU:HD21	1:C:814:LEU:CD2	2.19	0.72
1:A:1023:GLY:HA2	1:A:1026:GLN:NE2	2.05	0.72
2:D:2258:VAL:HG11	2:D:2433:PHE:CZ	2.25	0.72
2:D:2387:GLY:CA	2:D:2432:LEU:HD21	2.13	0.72
1:C:541:THR:O	1:C:543:PRO:HD3	1.90	0.72
1:A:576:THR:CG2	1:A:579:PHE:HB2	2.20	0.72
2:D:1973:VAL:HG22	2:D:2027:THR:HA	1.70	0.72
2:B:1988:VAL:HG21	2:B:2005:PHE:CZ	2.24	0.72
1:C:746:PHE:CZ	1:C:799:THR:HB	2.24	0.72
1:A:174:GLN:HA	1:A:358:TYR:HE1	1.54	0.72
2:D:1953:ALA:HB3	2:D:1955:TRP:HZ3	1.52	0.72
2:B:3240:LYS:HD2	2:B:3240:LYS:H	1.54	0.72
2:B:1969:GLU:HA	2:B:2073:ASP:OD1	1.89	0.72
2:D:3094:GLU:OE2	2:D:3239:ALA:HB3	1.89	0.72
1:C:880:LYS:HB2	1:C:890:LYS:HB3	1.69	0.72
2:B:3338:PRO:HB3	2:B:3358:PHE:HE1	1.54	0.72
2:D:2246:GLN:NE2	2:D:2252:PHE:HA	2.05	0.72
2:B:2105:SER:HB3	2:D:1693:HIS:NE2	2.05	0.72
1:C:1491:GLN:NE2	1:C:1495:LYS:HE2	2.05	0.72
1:C:698:LEU:HD12	1:C:700:TYR:CD1	2.23	0.72
1:A:1239:ARG:NH2	1:A:1242:HIS:CE1	2.58	0.72
1:C:174:GLN:HA	1:C:358:TYR:HE1	1.54	0.72
1:A:250:TRP:CZ3	1:A:252:ASP:HB2	2.23	0.72
2:B:3136:ILE:CD1	2:D:3345:TYR:OH	2.37	0.72
2:B:2279:HIS:HE2	2:B:2280:TYR:HE2	1.37	0.72
2:B:2195:TRP:HB2	2:D:1922:TYR:CA	2.18	0.72
2:D:1707:LEU:HA	2:D:1709:PRO:HD3	1.69	0.72
1:C:551:PHE:HE1	1:C:625:PHE:CZ	2.08	0.72
1:C:638:ARG:HG2	1:C:702:TYR:CD1	2.24	0.72
1:A:1327:VAL:HG11	1:A:1452:PHE:HE1	1.49	0.72
1:C:65:PHE:HB3	1:C:66:PRO:HD3	1.69	0.72
2:B:3044:LYS:HG3	2:B:3045:PHE:H	1.53	0.72
2:B:1854:VAL:HG21	2:B:1862:ILE:HG13	1.72	0.72
2:D:2976:LEU:HD22	2:D:3144:PHE:CE2	2.25	0.72
2:B:2976:LEU:HD22	2:B:3144:PHE:CE2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1622:PHE:HZ	1:C:1646:ILE:CD1	2.01	0.72
1:C:1395:PHE:CE1	1:C:1430:LEU:HD23	2.25	0.72
1:C:318:VAL:HG11	1:C:341:PHE:CE1	2.24	0.72
1:C:749:THR:CG2	1:C:753:VAL:H	2.02	0.72
1:A:497:GLN:HE22	1:A:679:ASN:HB2	1.54	0.72
1:C:1621:ASP:HB3	2:D:1910:LYS:HG2	1.72	0.72
1:C:1483:ILE:HD13	2:D:2037:HIS:HB2	1.71	0.72
2:D:2907:LEU:HD21	2:D:2986:LYS:HD3	1.70	0.72
2:B:2172:TYR:CD2	2:B:2293:PHE:HD1	2.08	0.72
2:B:2142:GLY:HA3	2:B:2427:TRP:CD2	2.24	0.72
2:B:2153:TYR:CZ	2:B:2157:PHE:HE1	2.08	0.72
2:D:1737:TYR:CZ	2:D:1741:PHE:HE1	2.08	0.72
1:C:1467:ASP:O	1:C:1470:ARG:HG2	1.90	0.72
1:A:1491:GLN:NE2	1:A:1495:LYS:HE2	2.04	0.72
2:B:2494:HIS:CE1	2:B:3125:LYS:CG	2.73	0.72
2:D:1769:LEU:O	2:D:1786:ASN:ND2	2.22	0.72
2:D:2320:SER:O	2:D:2323:THR:HG22	1.89	0.72
1:C:876:HIS:CE1	1:C:1042:PHE:HE2	2.08	0.72
2:D:3177:LEU:HD23	2:D:3184:ILE:HG23	1.71	0.72
2:D:2526:VAL:HG21	2:D:2581:LEU:CD2	2.17	0.72
1:A:1395:PHE:CE1	1:A:1430:LEU:HD23	2.25	0.72
1:C:1657:THR:CB	2:D:1898:SER:OG	2.38	0.72
1:A:1422:ILE:HG13	1:A:1603:TYR:CD1	2.25	0.72
2:D:2172:TYR:CD2	2:D:2293:PHE:HD1	2.08	0.72
1:C:1442:LEU:CA	1:C:1589:LEU:HD11	2.20	0.72
1:A:21:ALA:HA	1:A:24:ARG:HD3	1.70	0.72
1:A:70:ARG:CD	1:A:267:LEU:HD11	2.20	0.72
1:A:638:ARG:O	1:A:642:VAL:HG23	1.88	0.72
1:A:1618:LEU:CD2	2:B:1906:VAL:CG1	2.45	0.72
2:B:3123:ARG:O	2:B:3124:VAL:HG12	1.90	0.72
1:A:810:LEU:HD21	1:A:814:LEU:CD2	2.19	0.72
2:B:2096:ILE:CG1	2:B:2185:LEU:HD12	2.10	0.72
1:A:383:LEU:HD21	1:A:391:LEU:HD22	1.72	0.72
2:B:3160:LEU:HD22	2:B:3161:PRO:HD2	1.70	0.72
1:C:1538:HIS:ND1	2:D:2498:SER:HB3	2.03	0.72
2:B:2258:VAL:HG11	2:B:2433:PHE:CZ	2.25	0.71
1:C:1274:ARG:HA	1:C:1374:PHE:CE1	2.24	0.71
1:C:1532:SER:O	1:C:1536:LEU:HD22	1.90	0.71
1:A:1293:HIS:CE1	1:A:1451:PHE:HE2	2.07	0.71
2:B:3316:PRO:CB	2:B:3392:HIS:HB3	2.12	0.71
2:D:1730:PHE:HB3	2:D:1731:PRO:HD3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3123:ARG:O	2:D:3124:VAL:HG12	1.90	0.71
1:A:910:VAL:HG11	1:A:1112:PHE:CD2	2.25	0.71
1:A:860:LEU:HA	1:A:919:HIS:CE1	2.25	0.71
2:B:2500:ALA:HB1	2:B:3131:SER:CA	2.19	0.71
2:D:1931:PHE:CZ	2:D:1942:LYS:HB3	2.25	0.71
2:D:1953:ALA:HB3	2:D:1955:TRP:CZ3	2.25	0.71
1:A:7:SER:HB3	1:A:10:HIS:ND1	2.05	0.71
2:B:2173:TRP:CZ3	2:B:2286:ILE:HD11	2.25	0.71
1:C:712:LEU:O	1:C:715:ILE:HG22	1.91	0.71
1:A:541:THR:O	1:A:543:PRO:HD3	1.90	0.71
1:A:638:ARG:HG2	1:A:702:TYR:CD1	2.24	0.71
1:C:70:ARG:CD	1:C:267:LEU:HD11	2.20	0.71
1:C:83:LYS:HE2	1:C:83:LYS:HA	1.72	0.71
1:A:1153:LYS:HA	1:A:1176:LEU:HD23	1.71	0.71
1:A:876:HIS:CE1	1:A:1042:PHE:HE2	2.08	0.71
2:D:2735:PRO:HG3	2:D:2754:LYS:HE3	1.70	0.71
2:B:2664:VAL:O	2:B:2668:ILE:HD13	1.90	0.71
2:B:1737:TYR:CZ	2:B:1741:PHE:HE1	2.08	0.71
1:A:1316:PHE:HB3	1:A:1317:PRO:HD3	1.73	0.71
1:A:1656:HIS:HA	2:B:1898:SER:CB	2.14	0.71
2:B:1769:LEU:O	2:B:1786:ASN:ND2	2.22	0.71
2:B:3291:ILE:HG22	2:B:3305:GLU:OE2	1.90	0.71
2:B:1815:SER:HB3	2:B:1820:HIS:NE2	2.05	0.71
1:C:1628:ILE:HG21	1:C:1636:LEU:HB2	1.71	0.71
1:C:383:LEU:HD21	1:C:391:LEU:HD22	1.72	0.71
2:D:3160:LEU:CD1	2:D:3162:ASN:H	2.03	0.71
2:B:2214:THR:HG22	2:B:2215:TYR:H	1.53	0.71
2:B:2258:VAL:CG2	2:B:2416:ILE:HG23	2.20	0.71
1:C:583:LEU:CD1	1:C:718:MET:HE1	2.21	0.71
1:A:1334:LYS:CA	1:A:1334:LYS:HE2	2.20	0.71
1:A:409:PHE:CD2	2:B:3186:GLU:OE1	2.43	0.71
2:D:1852:THR:HG23	2:D:1853:TRP:HD1	1.56	0.71
2:B:1730:PHE:HB3	2:B:1731:PRO:HD3	1.72	0.71
2:D:2185:LEU:H	2:D:2185:LEU:HD22	1.56	0.71
2:D:1973:VAL:CG2	2:D:2027:THR:HA	2.20	0.71
1:A:366:VAL:HG12	1:A:371:MET:O	1.90	0.71
2:B:2526:VAL:HG21	2:B:2581:LEU:CD2	2.17	0.71
2:B:3160:LEU:CD1	2:B:3162:ASN:H	2.03	0.71
1:C:1575:HIS:HA	2:D:2783:HIS:HB2	1.73	0.71
2:B:2246:GLN:NE2	2:B:2252:PHE:HA	2.05	0.71
2:D:2193:ASP:O	2:D:2194:VAL:HG23	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1707:LEU:HD23	2:D:1709:PRO:CG	2.19	0.71
1:A:551:PHE:HE1	1:A:625:PHE:CZ	2.08	0.71
2:D:1757:TRP:HE1	2:D:1763:ARG:CD	2.04	0.71
2:B:1757:TRP:HE1	2:B:1763:ARG:CD	2.04	0.71
2:B:2497:SER:HB3	2:B:3397:ASP:OD2	1.90	0.71
1:A:317:ASN:O	1:A:383:LEU:HD12	1.90	0.71
2:D:1815:SER:HB3	2:D:1820:HIS:NE2	2.05	0.71
1:C:458:THR:HA	1:C:461:TYR:CE1	2.26	0.71
1:C:7:SER:HB3	1:C:10:HIS:ND1	2.05	0.71
2:B:2243:ALA:HA	2:B:2246:GLN:NE2	2.04	0.71
1:C:1325:VAL:HG21	1:C:1519:PHE:CE1	2.25	0.71
1:C:1334:LYS:HE2	1:C:1334:LYS:CA	2.20	0.71
1:C:1362:TYR:CE2	1:C:1364:SER:HA	2.25	0.71
1:A:1372:ASN:OD1	1:A:1374:PHE:HB2	1.91	0.71
2:D:3325:LYS:CG	2:D:3367:TYR:HB2	2.20	0.71
2:B:3075:HIS:HB2	2:B:3109:LEU:HD12	1.73	0.71
2:B:2493:ASP:OD2	2:B:3124:VAL:HG21	1.91	0.71
2:B:3183:ASN:ND2	2:B:3186:GLU:HB2	2.04	0.71
2:D:1757:TRP:HE1	2:D:1763:ARG:HD2	1.56	0.71
1:C:462:HIS:CE1	1:C:629:PHE:CZ	2.79	0.71
1:C:566:LEU:HD11	1:C:608:TRP:CE3	2.25	0.71
2:B:2606:VAL:HG11	2:B:2628:ARG:NH2	2.05	0.71
2:D:2606:VAL:HG11	2:D:2628:ARG:NH2	2.05	0.71
1:C:1013:ILE:HD12	1:C:1014:ALA:N	2.06	0.71
1:C:317:ASN:O	1:C:383:LEU:HD12	1.90	0.71
2:D:2571:ARG:HH21	2:D:2761:TYR:HB3	1.56	0.71
2:B:2577:MET:HG3	2:B:2698:TRP:HE1	0.75	0.71
1:C:1239:ARG:NH2	1:C:1242:HIS:CE1	2.58	0.71
1:A:179:HIS:CE1	1:A:209:HIS:NE2	2.59	0.71
1:A:59:ILE:HG22	1:A:62:MET:HB2	1.72	0.71
1:A:1467:ASP:O	1:A:1470:ARG:HG2	1.90	0.71
2:D:1757:TRP:HZ3	2:D:1873:LEU:CD1	2.02	0.71
2:D:1851:HIS:HA	2:D:1862:ILE:CG2	2.21	0.71
2:B:1670:ASP:H	2:B:1673:GLN:NE2	1.89	0.71
2:B:1973:VAL:CG2	2:B:2027:THR:HA	2.20	0.71
1:A:566:LEU:HD11	1:A:608:TRP:CE3	2.26	0.71
1:C:411:ASP:HB3	1:C:655:ARG:H	1.55	0.71
1:A:769:MET:HA	1:A:769:MET:CE	2.18	0.71
2:B:1931:PHE:CZ	2:B:1942:LYS:HB3	2.25	0.71
1:C:1405:LEU:HD11	1:C:1540:LEU:HD23	1.73	0.71
2:B:3136:ILE:HD12	2:B:3136:ILE:H	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1979:LEU:HB2	2:B:2018:PHE:CD2	2.25	0.71
2:B:2320:SER:O	2:B:2323:THR:HG22	1.89	0.71
2:D:2146:PHE:HB3	2:D:2147:PRO:HD3	1.72	0.71
2:B:2195:TRP:CE3	2:D:1922:TYR:HE1	1.99	0.71
1:A:60:HIS:CD2	1:A:65:PHE:CE2	2.79	0.71
1:A:466:ALA:HB1	1:A:477:TYR:O	1.91	0.71
1:A:712:LEU:O	1:A:715:ILE:HG22	1.91	0.71
2:B:3308:ILE:HA	2:B:3329:MET:CB	2.19	0.71
2:B:3274:LEU:HD11	2:B:3281:GLU:OE2	1.91	0.71
2:B:3338:PRO:HB3	2:B:3358:PHE:CE1	2.25	0.71
2:D:2149:TRP:HA	2:D:2326:MET:HE1	1.71	0.71
1:A:83:LYS:HA	1:A:83:LYS:HE2	1.72	0.71
2:B:3177:LEU:HD23	2:B:3184:ILE:HG23	1.71	0.71
1:C:1233:SER:CB	2:D:2320:SER:HB3	2.19	0.71
2:B:3340:LEU:HD21	2:B:3343:GLY:HA2	1.71	0.71
2:B:3325:LYS:CG	2:B:3367:TYR:HB2	2.20	0.71
2:D:2713:ALA:HB1	2:D:2778:ILE:HD13	1.73	0.71
1:C:366:VAL:HG12	1:C:371:MET:O	1.90	0.71
2:B:1931:PHE:CE1	2:B:1942:LYS:HB3	2.26	0.71
1:A:230:ASP:OD1	1:A:231:PRO:HD2	1.91	0.71
1:A:1405:LEU:HD11	1:A:1540:LEU:HD23	1.72	0.71
2:D:2307:LYS:HE3	2:D:2369:HIS:CA	2.19	0.71
1:A:1325:VAL:HG21	1:A:1519:PHE:CE1	2.24	0.71
1:C:860:LEU:HA	1:C:919:HIS:CE1	2.25	0.71
1:A:1646:ILE:HD13	2:B:1906:VAL:CG2	2.21	0.71
1:A:1618:LEU:HD12	2:B:1906:VAL:HG21	1.73	0.71
2:B:2713:ALA:HB1	2:B:2778:ILE:HD13	1.73	0.71
1:C:815:ILE:HG22	1:C:816:PRO:O	1.90	0.71
1:C:497:GLN:HE22	1:C:679:ASN:HB2	1.54	0.71
2:D:3338:PRO:HB3	2:D:3358:PHE:CE1	2.25	0.71
1:A:1093:ASP:OD2	1:A:1096:THR:HG23	1.91	0.70
1:C:1242:HIS:CG	1:C:1476:TYR:OH	2.44	0.70
1:C:910:VAL:HG11	1:C:1112:PHE:CD2	2.25	0.70
2:B:3071:TYR:CZ	2:B:3109:LEU:HD22	2.25	0.70
2:B:2185:LEU:HD22	2:B:2185:LEU:H	1.56	0.70
2:B:1956:SER:O	2:B:1960:ILE:HG12	1.91	0.70
1:A:749:THR:CG2	1:A:753:VAL:H	2.02	0.70
1:C:1422:ILE:HG13	1:C:1603:TYR:CD1	2.25	0.70
1:A:891:PHE:HB2	1:A:1183:MET:CE	2.21	0.70
1:C:891:PHE:HB2	1:C:1183:MET:CE	2.21	0.70
2:D:2180:HIS:HA	2:D:2225:PHE:HE2	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1189:ARG:NH2	2:D:2431:ARG:CB	2.53	0.70
2:B:2103:LEU:HD12	2:B:2204:PHE:CD1	2.26	0.70
1:A:1086:LEU:CD2	1:A:1090:ILE:HD13	2.16	0.70
1:C:1242:HIS:HB3	1:C:1476:TYR:CE1	2.22	0.70
1:C:1319:TRP:HA	1:C:1490:LEU:HD21	1.72	0.70
1:C:576:THR:CG2	1:C:579:PHE:HB2	2.20	0.70
1:A:1532:SER:O	1:A:1536:LEU:HD22	1.90	0.70
1:A:495:VAL:O	1:A:498:VAL:HG12	1.91	0.70
1:C:160:LEU:HD21	1:C:297:ARG:HD2	1.73	0.70
1:C:60:HIS:CD2	1:C:65:PHE:CE2	2.79	0.70
1:A:973:ARG:HA	1:A:1026:GLN:HE22	1.55	0.70
1:C:1023:GLY:HA2	1:C:1026:GLN:NE2	2.05	0.70
1:C:127:ASN:OD1	1:C:134:LYS:HD2	1.91	0.70
2:D:2279:HIS:HE2	2:D:2280:TYR:HE2	1.37	0.70
2:B:2195:TRP:CA	2:D:1922:TYR:CD1	2.74	0.70
1:C:1093:ASP:OD2	1:C:1096:THR:HG23	1.91	0.70
1:C:495:VAL:O	1:C:498:VAL:HG12	1.91	0.70
1:A:1464:ILE:HD13	1:A:1526:LEU:HB3	1.73	0.70
2:B:3297:ASN:H	2:B:3297:ASN:HD22	1.39	0.70
1:C:1148:LEU:HD12	1:C:1187:TYR:CE2	2.26	0.70
1:C:1153:LYS:CG	1:C:1176:LEU:HD21	2.12	0.70
1:C:973:ARG:HA	1:C:1026:GLN:HE22	1.55	0.70
2:D:1931:PHE:CE1	2:D:1942:LYS:HB3	2.26	0.70
1:C:230:ASP:OD1	1:C:231:PRO:HD2	1.91	0.70
2:D:3240:LYS:HD2	2:D:3240:LYS:H	1.54	0.70
2:B:3195:ARG:HH12	2:B:3295:ARG:HE	1.39	0.70
2:D:2664:VAL:O	2:D:2668:ILE:HD13	1.90	0.70
2:B:2224:LEU:HD23	2:B:2225:PHE:N	2.06	0.70
1:C:1515:TYR:HE2	1:C:1521:TYR:O	1.69	0.70
1:A:1662:THR:HG22	2:B:1899:GLY:H	1.57	0.70
1:A:462:HIS:CE1	1:A:629:PHE:CZ	2.79	0.70
1:A:746:PHE:CZ	1:A:799:THR:HB	2.25	0.70
1:A:815:ILE:HG22	1:A:816:PRO:O	1.90	0.70
1:C:1403:GLN:HE22	1:C:1605:LEU:CD2	2.04	0.70
1:C:411:ASP:HB2	1:C:655:ARG:H	1.55	0.70
2:B:2322:MET:HE1	2:B:2349:PHE:HE1	1.55	0.70
1:C:1026:GLN:HG3	1:C:1028:TYR:O	1.91	0.70
2:B:2810:SER:HB3	2:B:2822:PHE:HE1	1.53	0.70
2:B:1979:LEU:HB2	2:B:2018:PHE:HD2	1.56	0.70
2:D:2208:TYR:O	2:D:2210:PRO:HD3	1.91	0.70
1:C:1324:VAL:O	1:C:1327:VAL:HG22	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1274:ARG:HA	1:A:1374:PHE:CE1	2.24	0.70
1:A:1274:ARG:HH11	1:A:1365:ARG:NH2	1.90	0.70
2:D:3291:ILE:HG22	2:D:3305:GLU:OE2	1.91	0.70
1:A:516:TRP:CG	1:A:605:ILE:HD12	2.27	0.70
1:A:810:LEU:HD13	1:A:811:ALA:O	1.91	0.70
1:C:748:LYS:HA	1:C:754:GLN:HG2	1.72	0.70
1:C:810:LEU:HD13	1:C:811:ALA:O	1.91	0.70
1:C:1549:VAL:HG22	1:C:1607:ILE:HD11	1.71	0.70
1:A:975:VAL:HG23	1:A:1021:LEU:O	1.92	0.70
1:A:1026:GLN:HG3	1:A:1028:TYR:O	1.92	0.70
2:D:3200:VAL:HG11	2:D:3258:VAL:HG21	1.73	0.70
2:D:2385:PHE:CE1	2:D:2485:GLU:HG3	2.26	0.70
2:D:2032:LYS:O	2:D:2032:LYS:HD3	1.92	0.70
2:B:2208:TYR:O	2:B:2210:PRO:HD3	1.91	0.70
1:C:1372:ASN:OD1	1:C:1374:PHE:HB2	1.91	0.70
1:A:241:LEU:CD1	1:A:265:ALA:HB2	2.21	0.70
1:A:1242:HIS:CG	1:A:1476:TYR:OH	2.44	0.70
1:A:676:LEU:N	1:A:676:LEU:HD22	2.05	0.70
1:A:560:ARG:NE	1:A:609:THR:HB	2.07	0.70
2:D:3308:ILE:HA	2:D:3329:MET:CB	2.19	0.70
1:A:1403:GLN:HE22	1:A:1605:LEU:CD2	2.04	0.70
1:C:811:ALA:O	1:C:814:LEU:HD13	1.92	0.70
1:C:975:VAL:HG23	1:C:1021:LEU:O	1.92	0.70
1:C:226:LEU:HD23	1:C:291:LYS:CE	2.20	0.70
2:D:2667:GLU:O	2:D:2670:HIS:HB3	1.92	0.70
1:C:964:ILE:HD11	1:C:1035:TYR:HD1	1.57	0.70
1:C:841:ASN:HD21	1:C:844:ARG:HB2	1.56	0.70
2:D:3338:PRO:HB3	2:D:3358:PHE:HE1	1.54	0.70
2:D:3297:ASN:HD22	2:D:3297:ASN:H	1.40	0.70
2:D:2173:TRP:CZ3	2:D:2286:ILE:HD11	2.25	0.70
2:D:2367:ASN:O	2:D:2371:ILE:HG23	1.91	0.70
1:C:498:VAL:HG11	1:C:511:ILE:CD1	2.21	0.70
1:C:179:HIS:CE1	1:C:209:HIS:NE2	2.59	0.70
2:D:1670:ASP:H	2:D:1673:GLN:NE2	1.89	0.70
2:D:1854:VAL:HG21	2:D:1862:ILE:HG13	1.72	0.70
2:B:1852:THR:HG23	2:B:1853:TRP:HD1	1.56	0.70
1:A:1036:THR:HG22	1:A:1042:PHE:CD2	2.19	0.70
1:A:582:ILE:CG2	1:A:639:LEU:HD23	2.22	0.70
1:A:930:TRP:CE3	1:A:1018:ILE:HD11	2.27	0.70
2:D:2594:ASP:HA	2:D:2703:ASN:ND2	2.07	0.70
1:C:951:ASP:OD1	1:C:953:VAL:HG12	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1101:VAL:HG23	1:A:1104:ASN:H	1.57	0.70
2:D:2124:LEU:HD13	2:D:2125:PRO:N	2.07	0.70
1:C:466:ALA:HB1	1:C:477:TYR:O	1.91	0.70
1:C:546:SER:HA	1:C:558:THR:CG2	2.22	0.70
1:A:160:LEU:HD21	1:A:297:ARG:HD2	1.73	0.70
1:A:1293:HIS:HA	1:A:1309:CYS:SG	2.31	0.70
1:A:1324:VAL:O	1:A:1327:VAL:HG22	1.91	0.70
1:C:239:GLU:OE2	1:C:819:SER:CB	2.40	0.70
1:C:241:LEU:CD1	1:C:265:ALA:HB2	2.21	0.70
1:C:860:LEU:HA	1:C:919:HIS:NE2	2.07	0.70
2:D:1880:GLN:HE22	2:D:1884:ILE:CG2	2.05	0.70
2:B:1759:TRP:HD1	2:B:1811:LEU:HD11	1.57	0.70
1:C:900:VAL:CG1	1:C:1081:LEU:HD11	2.21	0.70
1:C:1179:ASP:O	1:C:1182:GLU:HG2	1.92	0.70
1:A:860:LEU:HA	1:A:919:HIS:NE2	2.07	0.70
2:D:3335:VAL:HG12	2:D:3383:LEU:HD21	1.74	0.70
1:C:1101:VAL:HG23	1:C:1104:ASN:H	1.57	0.70
2:D:1979:LEU:HB2	2:D:2018:PHE:CD2	2.25	0.70
2:B:2367:ASN:O	2:B:2371:ILE:HG23	1.91	0.70
1:C:698:LEU:HD12	1:C:700:TYR:CB	2.22	0.70
1:A:239:GLU:OE2	1:A:819:SER:CB	2.40	0.70
1:A:498:VAL:HG11	1:A:511:ILE:CD1	2.21	0.70
2:B:1880:GLN:HE22	2:B:1884:ILE:CG2	2.05	0.70
2:B:1693:HIS:C	2:D:2101:TYR:CZ	2.64	0.70
2:D:2970:PHE:CD2	2:D:2971:PRO:HD3	2.27	0.70
1:A:748:LYS:HA	1:A:754:GLN:HG2	1.72	0.70
1:C:582:ILE:CG2	1:C:639:LEU:HD23	2.22	0.70
2:D:2126:ALA:HB1	2:D:2136:VAL:O	1.92	0.70
2:B:2126:ALA:HB1	2:B:2136:VAL:O	1.92	0.70
2:D:3254:ILE:H	2:D:3254:ILE:HD13	1.55	0.70
2:B:2159:GLN:O	2:B:2163:ARG:HG3	1.92	0.70
2:B:2106:LEU:HD23	2:B:2164:HIS:CE1	2.27	0.70
1:A:70:ARG:HH22	1:A:270:TYR:HB3	1.57	0.70
1:A:498:VAL:O	1:A:501:ALA:HB3	1.92	0.70
1:C:21:ALA:O	1:C:25:GLU:HG3	1.92	0.70
1:C:1078:ARG:HB3	2:D:2457:PRO:CD	2.21	0.70
1:A:1161:ILE:HG12	1:A:1195:ILE:HD11	1.74	0.70
2:D:3071:TYR:CZ	2:D:3109:LEU:HD22	2.25	0.70
1:A:411:ASP:HB3	1:A:655:ARG:H	1.55	0.70
2:D:2322:MET:CE	2:D:2349:PHE:HE1	2.05	0.70
1:C:930:TRP:CE3	1:C:1018:ILE:HD11	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:ILE:HD12	1:A:1014:ALA:N	2.06	0.70
2:D:3274:LEU:HD11	2:D:3281:GLU:OE2	1.91	0.70
2:B:2497:SER:HB3	2:B:3322:ARG:CZ	2.21	0.70
2:B:3335:VAL:HG12	2:B:3383:LEU:HD21	1.74	0.70
1:A:173:ILE:HG13	1:A:174:GLN:N	2.07	0.70
1:A:21:ALA:O	1:A:25:GLU:HG3	1.92	0.69
1:A:432:THR:HG22	1:A:435:GLU:HG3	1.74	0.69
1:A:440:ARG:HA	1:A:544:PHE:HE2	1.57	0.69
1:A:646:LEU:HD21	1:A:716:GLU:OE1	1.92	0.69
1:A:811:ALA:O	1:A:814:LEU:HD13	1.92	0.69
1:A:1101:VAL:CG2	1:A:1104:ASN:HB2	2.22	0.69
1:C:1101:VAL:CG2	1:C:1104:ASN:HB2	2.22	0.69
2:D:3136:ILE:HD12	2:D:3136:ILE:H	1.56	0.69
1:A:458:THR:HA	1:A:461:TYR:CE1	2.26	0.69
2:D:2103:LEU:HD12	2:D:2204:PHE:CD1	2.26	0.69
2:B:2124:LEU:HD13	2:B:2125:PRO:N	2.07	0.69
1:A:1319:TRP:HA	1:A:1490:LEU:HD21	1.72	0.69
2:D:3263:LEU:HD22	2:D:3269:LYS:HD2	1.73	0.69
2:B:1757:TRP:HE1	2:B:1763:ARG:HD2	1.56	0.69
2:B:1847:HIS:ND1	2:B:1881:THR:HG21	1.99	0.69
2:B:1694:SER:HA	2:D:2101:TYR:HE2	1.57	0.69
2:B:2594:ASP:HA	2:B:2703:ASN:ND2	2.07	0.69
2:B:2032:LYS:O	2:B:2032:LYS:HD3	1.92	0.69
1:C:439:LEU:HB3	1:C:544:PHE:HZ	1.57	0.69
1:A:1476:TYR:CG	1:A:1477:ARG:N	2.61	0.69
1:A:431:LEU:HA	1:A:435:GLU:OE1	1.92	0.69
1:A:439:LEU:HB3	1:A:544:PHE:HZ	1.57	0.69
1:C:59:ILE:HG22	1:C:62:MET:HB2	1.72	0.69
1:A:1622:PHE:HZ	1:A:1646:ILE:CD1	2.02	0.69
2:B:1851:HIS:HA	2:B:1862:ILE:CG2	2.21	0.69
2:B:3263:LEU:HD22	2:B:3269:LYS:HD2	1.73	0.69
2:B:2400:GLN:HG3	2:B:2412:HIS:HE1	1.57	0.69
1:A:226:LEU:HD23	1:A:291:LYS:CE	2.20	0.69
2:B:3200:VAL:HG11	2:B:3258:VAL:HG21	1.73	0.69
1:A:951:ASP:OD1	1:A:953:VAL:HG12	1.92	0.69
1:A:1202:LEU:HB3	1:A:1204:LEU:HG	1.75	0.69
2:D:2224:LEU:HD23	2:D:2225:PHE:N	2.06	0.69
2:B:1707:LEU:HD23	2:B:1709:PRO:CG	2.19	0.69
1:C:1293:HIS:HA	1:C:1309:CYS:SG	2.31	0.69
1:C:1515:TYR:HA	1:C:1519:PHE:CD2	2.26	0.69
1:C:431:LEU:HA	1:C:435:GLU:OE1	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:440:ARG:HA	1:C:544:PHE:HE2	1.57	0.69
1:C:436:VAL:HG23	1:C:526:LEU:HD11	1.75	0.69
1:C:1079:GLU:CA	2:D:2456:GLU:HG3	2.22	0.69
2:B:1757:TRP:HZ3	2:B:1873:LEU:CD1	2.02	0.69
2:B:3340:LEU:HG	2:B:3341:ASN:ND2	2.08	0.69
2:B:3314:LEU:HD21	2:B:3391:ILE:CG1	2.22	0.69
1:A:900:VAL:CG1	1:A:1081:LEU:HD11	2.21	0.69
2:D:1845:ILE:HD12	2:D:2022:TYR:CE1	2.26	0.69
1:A:964:ILE:HG12	1:A:1038:PHE:CD1	2.27	0.69
2:B:2571:ARG:HH21	2:B:2761:TYR:HB3	1.56	0.69
2:D:2862:PHE:HE1	2:D:2864:PHE:CE1	2.10	0.69
2:D:2823:ALA:HA	2:D:2850:VAL:HG21	1.75	0.69
2:B:2146:PHE:HB3	2:B:2147:PRO:HD3	1.73	0.69
2:B:2175:TRP:CH2	2:B:2266:LEU:HD22	2.27	0.69
1:C:1316:PHE:HB3	1:C:1317:PRO:HD3	1.72	0.69
1:C:552:GLU:HG3	1:C:554:ASN:N	2.07	0.69
1:A:1325:VAL:HG11	1:A:1515:TYR:CE1	2.24	0.69
1:A:1662:THR:O	2:B:1893:ARG:CG	2.40	0.69
2:B:2970:PHE:CD2	2:B:2971:PRO:HD3	2.27	0.69
1:A:1142:PHE:O	1:A:1195:ILE:HG22	1.92	0.69
1:C:1142:PHE:O	1:C:1195:ILE:HG22	1.92	0.69
1:A:1148:LEU:HD12	1:A:1187:TYR:CE2	2.26	0.69
2:B:1845:ILE:HD12	2:B:2022:TYR:CE1	2.26	0.69
1:A:964:ILE:HD11	1:A:1035:TYR:HD1	1.57	0.69
1:A:841:ASN:HD21	1:A:844:ARG:HB2	1.56	0.69
2:B:3254:ILE:H	2:B:3254:ILE:HD13	1.55	0.69
2:B:2870:ASP:OD2	2:B:2874:LYS:HB3	1.92	0.69
2:D:2175:TRP:CH2	2:D:2266:LEU:HD22	2.27	0.69
2:B:2695:PRO:HA	2:B:2698:TRP:CZ3	2.28	0.69
1:C:676:LEU:N	1:C:676:LEU:HD22	2.05	0.69
1:C:498:VAL:HB	1:C:630:TYR:CE1	2.28	0.69
1:A:1363:ASN:HA	1:A:1365:ARG:NH1	2.07	0.69
2:D:2634:LEU:HD12	2:D:2676:TRP:CE3	2.26	0.69
2:B:2497:SER:OG	2:B:3322:ARG:CZ	2.40	0.69
2:B:1689:MET:CE	2:B:1698:PHE:HD1	2.06	0.69
1:C:1363:ASN:HA	1:C:1365:ARG:NH1	2.07	0.69
1:C:1515:TYR:CE2	1:C:1521:TYR:CA	2.73	0.69
1:C:5:ARG:HD3	1:C:89:LEU:CD2	2.17	0.69
2:D:1759:TRP:HD1	2:D:1811:LEU:HD11	1.57	0.69
2:D:3119:LEU:O	2:D:3119:LEU:HD23	1.93	0.69
1:A:1036:THR:CG2	1:A:1042:PHE:HD2	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1567:PHE:HD1	1:C:1583:ALA:N	1.91	0.69
1:A:1469:GLN:OE1	1:A:1474:ARG:HD3	1.92	0.69
2:B:1780:THR:HG23	2:B:1782:ARG:N	2.05	0.69
1:A:1034:ARG:HD2	1:A:1035:TYR:CZ	2.27	0.69
2:B:2127:LYS:CE	2:B:2333:ILE:HD11	2.23	0.69
1:A:127:ASN:OD1	1:A:134:LYS:HD2	1.92	0.69
1:A:8:VAL:CG1	1:A:104:LEU:HD12	2.15	0.69
1:A:1515:TYR:HA	1:A:1519:PHE:CD2	2.27	0.69
1:A:546:SER:HA	1:A:558:THR:CG2	2.22	0.69
1:A:498:VAL:HB	1:A:630:TYR:CE1	2.28	0.69
1:C:70:ARG:HH22	1:C:270:TYR:HB3	1.57	0.69
1:C:160:LEU:HD21	1:C:293:TYR:CE2	2.28	0.69
2:B:3310:LYS:H	2:B:3389:LEU:HD21	1.57	0.69
2:B:3353:VAL:HG12	2:B:3377:THR:HG21	1.75	0.69
1:A:1179:ASP:O	1:A:1182:GLU:HG2	1.92	0.69
1:A:895:VAL:HG11	1:A:900:VAL:HG12	1.74	0.69
1:A:895:VAL:HG23	1:A:898:MET:HE3	1.74	0.69
2:D:2684:GLY:O	2:D:2687:THR:HG22	1.93	0.69
1:A:411:ASP:HB2	1:A:655:ARG:H	1.55	0.69
1:A:723:GLN:HG3	1:A:826:ARG:HH21	1.57	0.69
2:D:2237:LEU:O	2:D:2241:LEU:HG	1.92	0.69
1:A:730:ALA:HB2	1:A:781:ILE:HD11	1.75	0.69
1:C:1192:LYS:HZ2	1:C:1235:ILE:HD12	1.56	0.69
2:B:2498:SER:HB2	2:B:3397:ASP:HB3	1.74	0.69
1:C:791:THR:HG23	1:C:794:GLY:N	2.05	0.69
1:A:791:THR:HG23	1:A:794:GLY:N	2.05	0.69
1:C:173:ILE:HG13	1:C:174:GLN:N	2.07	0.69
2:D:1956:SER:O	2:D:1960:ILE:HG12	1.91	0.69
2:D:1689:MET:CE	2:D:1698:PHE:HD1	2.06	0.69
2:D:1979:LEU:HB2	2:D:2018:PHE:HD2	1.56	0.69
2:B:2862:PHE:HE1	2:B:2864:PHE:CE1	2.10	0.69
2:D:2660:CYS:SG	2:D:2728:GLU:HG2	2.33	0.69
2:D:2175:TRP:CG	2:D:2263:ILE:HD11	2.27	0.69
2:B:1914:LYS:CD	2:B:1918:PHE:HE1	2.06	0.69
1:C:1087:SER:OG	1:C:1097:LYS:CD	2.39	0.69
1:A:160:LEU:HD21	1:A:293:TYR:CE2	2.28	0.69
1:A:1273:LEU:HB3	1:A:1374:PHE:CZ	2.27	0.69
1:A:1520:GLY:O	1:A:1521:TYR:CD1	2.46	0.69
1:C:23:LEU:CD2	1:C:122:TYR:HD2	2.05	0.69
2:D:3314:LEU:HD21	2:D:3391:ILE:HG12	1.75	0.69
2:B:3314:LEU:HD21	2:B:3391:ILE:HG12	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:516:TRP:CG	1:C:605:ILE:HD12	2.27	0.69
1:C:1567:PHE:HD1	1:C:1583:ALA:CA	2.06	0.69
1:A:973:ARG:HD3	1:A:1039:ASP:OD2	1.93	0.69
1:C:964:ILE:HG12	1:C:1038:PHE:CD1	2.27	0.69
1:A:1219:LEU:CD1	1:A:1220:LYS:HG3	2.23	0.69
1:C:32:SER:O	1:C:37:LYS:HB3	1.93	0.69
2:B:1714:PRO:HG2	2:B:1922:TYR:HE2	1.06	0.69
2:B:1924:LEU:HB3	2:D:2094:ARG:CG	2.23	0.69
2:D:2577:MET:HE2	2:D:2698:TRP:CZ2	2.28	0.69
2:D:2695:PRO:HA	2:D:2698:TRP:CZ3	2.28	0.69
1:C:1249:GLN:HG3	1:C:1476:TYR:HD1	1.57	0.69
2:D:3340:LEU:HG	2:D:3341:ASN:ND2	2.08	0.69
2:D:2912:ILE:CG2	2:D:2995:PRO:HB2	2.06	0.69
2:B:3090:MET:SD	2:B:3101:TYR:HD2	2.16	0.69
2:B:1705:HIS:HE1	2:B:1865:LEU:HD12	1.58	0.69
1:C:723:GLN:HG3	1:C:826:ARG:HH21	1.57	0.69
2:B:3121:LYS:HD3	2:B:3126:PRO:HB3	1.74	0.69
1:A:497:GLN:OE1	1:A:682:THR:HG21	1.93	0.69
2:B:2608:ASP:HB3	2:B:2612:ASN:HD22	1.58	0.69
1:A:32:SER:O	1:A:37:LYS:HB3	1.93	0.69
1:C:1202:LEU:HB3	1:C:1204:LEU:HG	1.75	0.69
1:C:1476:TYR:CG	1:C:1477:ARG:N	2.60	0.68
1:C:498:VAL:HG11	1:C:630:TYR:CD1	2.28	0.68
1:C:502:LEU:HA	1:C:505:ARG:CD	2.23	0.68
1:A:694:TYR:CZ	1:A:695:GLU:HG3	2.28	0.68
2:D:3075:HIS:HB2	2:D:3109:LEU:HD12	1.73	0.68
2:D:2930:LEU:HG	2:D:2939:TYR:HB2	1.75	0.68
2:B:2237:LEU:O	2:B:2241:LEU:HG	1.92	0.68
1:A:1395:PHE:CZ	1:A:1430:LEU:HD23	2.28	0.68
2:B:2667:GLU:O	2:B:2670:HIS:HB3	1.92	0.68
1:C:1034:ARG:HD2	1:C:1035:TYR:CZ	2.27	0.68
1:C:1219:LEU:CD1	1:C:1220:LYS:HG3	2.23	0.68
2:D:3358:PHE:CE2	2:D:3360:ALA:HA	2.28	0.68
1:A:169:CYS:HB3	1:A:356:ARG:CZ	2.24	0.68
2:B:2300:VAL:HG13	2:B:2368:LEU:HD22	1.75	0.68
1:C:1257:ARG:CG	1:C:1521:TYR:CD1	2.75	0.68
1:C:1274:ARG:HH11	1:C:1365:ARG:NH2	1.90	0.68
1:C:694:TYR:CZ	1:C:695:GLU:HG3	2.29	0.68
1:A:464:LEU:HD13	1:A:465:PRO:CA	2.24	0.68
1:A:513:TYR:CD1	1:A:638:ARG:HD2	2.28	0.68
1:C:1233:SER:HA	2:D:2320:SER:OG	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1815:SER:CB	2:B:1820:HIS:NE2	2.57	0.68
1:C:1134:GLU:O	1:C:1137:LYS:HG2	1.94	0.68
2:D:2964:VAL:HG11	2:D:2969:ILE:HG13	1.75	0.68
1:C:169:CYS:HB3	1:C:356:ARG:CZ	2.24	0.68
2:B:2792:ASP:HB3	2:B:2888:HIS:CE1	2.29	0.68
2:D:2106:LEU:HD23	2:D:2164:HIS:CE1	2.27	0.68
2:B:2100:LYS:CA	2:B:2204:PHE:HE1	2.03	0.68
2:B:2366:MET:HB2	2:B:2371:ILE:HG22	1.75	0.68
1:C:1464:ILE:HD13	1:C:1526:LEU:HB3	1.73	0.68
1:A:498:VAL:HG11	1:A:630:TYR:CD1	2.28	0.68
1:C:289:GLU:O	1:C:292:THR:HG22	1.93	0.68
1:A:1567:PHE:HD1	1:A:1583:ALA:CA	2.06	0.68
2:B:3177:LEU:H	2:B:3177:LEU:HD13	1.59	0.68
2:B:3327:MET:HG2	2:B:3328:PHE:H	1.59	0.68
2:B:2322:MET:CE	2:B:2349:PHE:HE1	2.05	0.68
2:B:2036:ARG:HH21	2:B:2038:ASP:CB	2.05	0.68
1:A:1143:PHE:CD2	1:A:1194:ASP:HA	2.28	0.68
2:D:1815:SER:CB	2:D:1820:HIS:NE2	2.57	0.68
1:C:666:HIS:CD2	1:C:686:ALA:HB3	2.29	0.68
2:D:2209:VAL:HG23	2:D:2283:TYR:CZ	2.29	0.68
2:D:2366:MET:HB2	2:D:2371:ILE:HG22	1.75	0.68
2:B:2209:VAL:HG11	2:B:2212:HIS:HB2	1.74	0.68
2:B:2175:TRP:CG	2:B:2263:ILE:HD11	2.28	0.68
2:D:1914:LYS:CD	2:D:1918:PHE:HE1	2.06	0.68
1:A:70:ARG:HH11	1:A:217:PHE:HD2	1.39	0.68
1:A:676:LEU:HD11	1:A:1365:ARG:HD2	1.75	0.68
1:A:1611:LEU:HD22	1:A:1616:VAL:HG21	1.74	0.68
2:D:3090:MET:SD	2:D:3101:TYR:HD2	2.16	0.68
1:C:366:VAL:HA	1:C:369:MET:CE	2.22	0.68
1:C:516:TRP:HE1	1:C:566:LEU:HD12	1.59	0.68
2:B:2628:ARG:HH12	2:B:2696:LEU:HD22	1.58	0.68
1:C:497:GLN:OE1	1:C:682:THR:HG21	1.93	0.68
2:D:2127:LYS:CE	2:D:2333:ILE:HD11	2.23	0.68
1:C:498:VAL:O	1:C:501:ALA:HB3	1.92	0.68
1:C:621:HIS:NE2	1:C:767:LYS:HB2	2.09	0.68
1:C:641:ALA:O	1:C:644:GLN:HG2	1.94	0.68
1:C:646:LEU:HD21	1:C:716:GLU:OE1	1.92	0.68
1:A:621:HIS:NE2	1:A:767:LYS:HB2	2.09	0.68
1:C:285:MET:HB2	1:C:290:LEU:HD21	1.75	0.68
1:A:1657:THR:HA	2:B:1901:GLU:CD	2.12	0.68
1:A:1567:PHE:HD1	1:A:1583:ALA:N	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1757:TRP:HZ3	2:D:1873:LEU:CD2	2.06	0.68
1:C:1161:ILE:HG12	1:C:1195:ILE:HD11	1.74	0.68
2:D:1909:MET:HE3	2:D:1934:PRO:C	2.13	0.68
2:B:1817:LYS:HD3	2:D:1778:PRO:HB2	1.76	0.68
1:C:1143:PHE:CD2	1:C:1194:ASP:HA	2.28	0.68
2:B:2962:CYS:CB	2:B:3143:PRO:HD3	2.23	0.68
2:B:3279:HIS:CD2	2:B:3280:THR:HG23	2.29	0.68
2:B:2660:CYS:SG	2:B:2728:GLU:HG2	2.33	0.68
2:D:2103:LEU:HD12	2:D:2204:PHE:CE1	2.29	0.68
2:D:2159:GLN:O	2:D:2163:ARG:HG3	1.93	0.68
2:D:2100:LYS:CA	2:D:2204:PHE:HE1	2.03	0.68
2:B:2180:HIS:HA	2:B:2225:PHE:HE2	1.55	0.68
2:B:2327:ARG:HG2	2:B:2331:TYR:HE1	1.58	0.68
1:C:676:LEU:HD11	1:C:1365:ARG:HD2	1.75	0.68
1:A:289:GLU:O	1:A:292:THR:HG22	1.94	0.68
1:A:436:VAL:HG23	1:A:526:LEU:HD11	1.75	0.68
2:D:3310:LYS:H	2:D:3389:LEU:HD21	1.57	0.68
2:B:3119:LEU:O	2:B:3119:LEU:HD23	1.93	0.68
2:D:1852:THR:HG23	2:D:1853:TRP:CD1	2.28	0.68
2:D:1982:PHE:CD1	2:D:2007:VAL:HG11	2.29	0.68
1:C:1236:HIS:CD2	1:C:1238:PRO:HD3	2.29	0.68
2:D:2255:GLN:HA	2:D:2433:PHE:CE1	2.23	0.68
2:B:2195:TRP:CG	2:D:1922:TYR:CD1	2.81	0.68
1:C:1265:LEU:HB2	1:C:1270:LEU:HD21	1.76	0.68
1:A:560:ARG:HD3	1:A:610:GLY:N	2.07	0.68
1:A:641:ALA:O	1:A:644:GLN:HG2	1.94	0.68
2:D:3314:LEU:HD21	2:D:3391:ILE:CG1	2.22	0.68
2:B:3316:PRO:HD2	2:D:3350:LYS:HZ2	0.59	0.68
2:D:1758:ASP:HA	2:D:1880:GLN:HG3	1.76	0.68
1:C:895:VAL:HG11	1:C:900:VAL:HG12	1.75	0.68
1:A:598:PHE:CZ	1:A:636:VAL:HG13	2.29	0.68
1:C:598:PHE:CZ	1:C:636:VAL:HG13	2.29	0.68
2:B:3243:PRO:HD2	2:D:3354:PRO:HB3	1.76	0.68
1:C:1306:ILE:CG2	1:C:1595:MET:HB3	2.22	0.68
2:D:2628:ARG:HH12	2:D:2696:LEU:HD22	1.58	0.68
2:B:2767:GLN:OE1	2:B:3121:LYS:NZ	2.24	0.68
1:C:1404:VAL:CG2	1:C:1423:LEU:HD22	2.23	0.68
2:B:2503:GLY:HA2	2:B:2588:VAL:HB	1.76	0.68
2:B:2660:CYS:HB3	2:B:2841:ARG:HH12	1.59	0.68
2:B:2173:TRP:HZ2	2:B:2179:ILE:HD12	1.59	0.68
2:B:1707:LEU:CD2	2:B:1709:PRO:CG	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:452:VAL:O	1:A:457:ALA:HB3	1.93	0.68
1:C:164:GLU:HB3	1:C:294:LEU:HD13	1.75	0.68
2:B:2493:ASP:O	2:B:2495:HIS:HD2	1.74	0.68
2:B:1758:ASP:HA	2:B:1880:GLN:HG3	1.76	0.68
2:B:1823:PHE:HD1	2:B:1846:MET:SD	2.17	0.68
2:D:2400:GLN:HG3	2:D:2412:HIS:HE1	1.57	0.68
2:B:1982:PHE:CD1	2:B:2007:VAL:HG11	2.29	0.68
2:B:2684:GLY:O	2:B:2687:THR:HG22	1.93	0.68
1:C:1547:ASP:HB3	1:C:1648:PHE:CZ	2.29	0.68
2:D:1705:HIS:HE1	2:D:1865:LEU:HD12	1.58	0.68
1:C:1469:GLN:OE1	1:C:1474:ARG:HD3	1.92	0.68
1:A:769:MET:HE2	1:A:770:LYS:H	1.58	0.68
1:C:318:VAL:O	1:C:340:ASP:HB2	1.93	0.68
1:A:318:VAL:O	1:A:340:ASP:HB2	1.93	0.68
2:D:3279:HIS:CD2	2:D:3280:THR:HG23	2.29	0.68
2:D:1808:ARG:HE	2:D:1810:ARG:HB2	1.59	0.68
2:B:2103:LEU:HD12	2:B:2204:PHE:CE1	2.29	0.68
1:C:1273:LEU:HB3	1:C:1374:PHE:CZ	2.26	0.68
1:A:146:LYS:HZ2	1:A:148:LYS:HE3	1.59	0.68
1:A:1319:TRP:HD1	1:A:1490:LEU:CD1	2.06	0.68
1:C:1188:ASP:OD1	2:D:2389:LEU:CD1	2.42	0.68
2:B:1852:THR:HG23	2:B:1853:TRP:CD1	2.28	0.68
2:D:2441:LEU:O	2:D:2444:ALA:HB3	1.94	0.68
2:B:2930:LEU:HG	2:B:2939:TYR:HB2	1.75	0.68
1:C:1611:LEU:HD22	1:C:1616:VAL:HG21	1.74	0.68
1:A:931:THR:HG21	1:A:1121:PHE:CE1	2.29	0.68
1:C:1395:PHE:CZ	1:C:1430:LEU:HD23	2.28	0.68
2:D:2546:PRO:HB2	2:D:2555:ASN:CG	2.14	0.68
1:A:37:LYS:HD3	1:A:37:LYS:O	1.94	0.68
2:B:2823:ALA:HA	2:B:2850:VAL:HG21	1.75	0.68
2:D:2870:ASP:OD2	2:D:2874:LYS:HB3	1.93	0.68
2:D:3121:LYS:HD3	2:D:3126:PRO:HB3	1.74	0.68
2:D:2121:PHE:O	2:D:2138:CYS:HB2	1.94	0.68
2:D:2173:TRP:HZ2	2:D:2179:ILE:HD12	1.59	0.68
2:D:2173:TRP:HZ2	2:D:2179:ILE:CD1	2.07	0.68
2:B:2222:GLU:O	2:B:2224:LEU:HD23	1.93	0.68
1:C:452:VAL:O	1:C:457:ALA:HB3	1.93	0.68
1:C:432:THR:CG2	1:C:435:GLU:H	2.07	0.68
1:C:432:THR:HG22	1:C:435:GLU:HG3	1.74	0.68
1:A:1265:LEU:HB2	1:A:1270:LEU:HD21	1.76	0.68
2:D:1823:PHE:HD1	2:D:1846:MET:SD	2.17	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1647:LEU:HD12	1:C:1648:PHE:N	2.09	0.68
2:B:1815:SER:CB	2:B:1820:HIS:CE1	2.77	0.68
1:C:1192:LYS:HZ1	1:C:1235:ILE:CD1	2.06	0.68
2:D:2945:PHE:CD2	2:D:3143:PRO:HG2	2.29	0.68
1:A:788:LEU:HB3	1:A:790:LEU:HG	1.76	0.68
2:D:3195:ARG:HH12	2:D:3295:ARG:HE	1.39	0.68
2:D:2341:LYS:O	2:D:2341:LYS:HD3	1.94	0.68
2:D:2387:GLY:C	2:D:2432:LEU:HD11	2.14	0.67
2:B:2387:GLY:C	2:B:2432:LEU:HD11	2.14	0.67
2:B:2195:TRP:HA	2:D:1921:PRO:CA	2.23	0.67
1:C:70:ARG:HH11	1:C:217:PHE:HD2	1.39	0.67
1:A:1134:GLU:O	1:A:1137:LYS:HG2	1.94	0.67
1:C:973:ARG:HD3	1:C:1039:ASP:OD2	1.93	0.67
2:B:2503:GLY:HA3	2:B:2588:VAL:CG1	2.23	0.67
2:D:2962:CYS:CB	2:D:3143:PRO:HD3	2.23	0.67
2:D:2660:CYS:HB3	2:D:2841:ARG:HH12	1.59	0.67
2:D:2222:GLU:O	2:D:2224:LEU:HD23	1.93	0.67
2:B:2209:VAL:HG23	2:B:2283:TYR:CZ	2.29	0.67
1:A:502:LEU:HA	1:A:505:ARG:CD	2.23	0.67
1:A:560:ARG:CZ	1:A:617:MET:HG3	2.24	0.67
1:C:155:LEU:O	1:C:159:VAL:HG13	1.94	0.67
2:D:1809:ASP:HB3	2:D:1812:PHE:CE2	2.30	0.67
2:D:2999:TRP:CE3	2:D:3051:ILE:HG21	2.29	0.67
1:A:516:TRP:HE1	1:A:566:LEU:HD12	1.59	0.67
1:C:1549:VAL:HG21	1:C:1646:ILE:HD11	1.76	0.67
1:C:931:THR:HG21	1:C:1121:PHE:CE1	2.29	0.67
2:D:1780:THR:HG23	2:D:1782:ARG:N	2.05	0.67
2:D:2608:ASP:HB3	2:D:2612:ASN:HD22	1.58	0.67
2:B:2546:PRO:HB2	2:B:2555:ASN:CG	2.13	0.67
2:D:1674:LEU:HD11	2:D:1755:PRO:HG3	1.75	0.67
2:D:2209:VAL:HG11	2:D:2212:HIS:HB2	1.75	0.67
2:D:2327:ARG:HG2	2:D:2331:TYR:HE1	1.58	0.67
1:C:1331:LEU:O	1:C:1334:LYS:HB2	1.95	0.67
1:C:513:TYR:CD1	1:C:638:ARG:HD2	2.28	0.67
2:D:3353:VAL:HG12	2:D:3377:THR:HG21	1.75	0.67
2:B:1851:HIS:HA	2:B:1862:ILE:HG22	1.75	0.67
2:B:2441:LEU:O	2:B:2444:ALA:HB3	1.94	0.67
2:B:2923:LEU:HD13	2:B:2995:PRO:HG3	1.76	0.67
2:B:1798:GLU:HG3	2:B:1800:VAL:CG1	2.25	0.67
1:C:565:ARG:O	1:C:565:ARG:HG3	1.93	0.67
1:A:442:ALA:HB1	1:A:505:ARG:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2502:HIS:HD2	2:B:2765:ASN:CA	2.08	0.67
2:B:3378:ALA:HB2	2:B:3384:CYS:HA	1.76	0.67
2:B:2177:LYS:HZ1	2:B:2364:GLY:HA2	1.60	0.67
2:B:2822:PHE:CE2	2:B:2825:THR:HG23	2.29	0.67
1:C:1405:LEU:HD11	1:C:1540:LEU:CD2	2.25	0.67
2:B:1674:LEU:HD11	2:B:1755:PRO:HG3	1.75	0.67
2:D:1707:LEU:CD2	2:D:1709:PRO:CG	2.71	0.67
1:C:466:ALA:CB	1:C:767:LYS:HD3	2.03	0.67
1:A:164:GLU:HB3	1:A:294:LEU:HD13	1.75	0.67
1:A:285:MET:HB2	1:A:290:LEU:HD21	1.75	0.67
1:A:432:THR:CG2	1:A:435:GLU:H	2.07	0.67
2:B:3294:ARG:O	2:B:3304:ILE:HG22	1.95	0.67
1:A:1392:ASP:HB2	1:A:1395:PHE:CE1	2.30	0.67
1:A:1404:VAL:CG2	1:A:1423:LEU:HD22	2.23	0.67
2:D:1798:GLU:HG3	2:D:1800:VAL:CG1	2.25	0.67
1:A:493:LEU:HD23	1:A:493:LEU:O	1.95	0.67
1:C:37:LYS:O	1:C:37:LYS:HD3	1.94	0.67
2:B:2172:TYR:HB2	2:B:2293:PHE:CA	2.25	0.67
2:B:2124:LEU:HD12	2:B:2212:HIS:HE1	1.59	0.67
1:A:565:ARG:HG3	1:A:565:ARG:O	1.93	0.67
1:C:241:LEU:HD11	1:C:265:ALA:HA	1.77	0.67
2:D:1670:ASP:H	2:D:1673:GLN:HE21	1.41	0.67
1:C:895:VAL:HG21	1:C:900:VAL:CB	2.23	0.67
1:C:1618:LEU:CD2	2:D:1906:VAL:HG11	2.24	0.67
2:D:2322:MET:HE1	2:D:2349:PHE:HE1	1.59	0.67
1:C:1236:HIS:HD2	1:C:1238:PRO:HD3	1.60	0.67
2:D:2761:TYR:HA	2:D:2764:PHE:HD1	1.60	0.67
2:D:2822:PHE:CE2	2:D:2825:THR:HG23	2.29	0.67
1:A:1405:LEU:HD11	1:A:1540:LEU:CD2	2.24	0.67
2:B:3358:PHE:CE2	2:B:3360:ALA:HA	2.28	0.67
1:A:1236:HIS:CD2	1:A:1238:PRO:HD3	2.29	0.67
2:B:2121:PHE:O	2:B:2138:CYS:HB2	1.94	0.67
1:C:1257:ARG:HG3	1:C:1521:TYR:CD1	2.26	0.67
1:C:1274:ARG:NH1	1:C:1365:ARG:NH2	2.42	0.67
1:A:160:LEU:CD1	1:A:294:LEU:HD21	2.24	0.67
1:A:5:ARG:HD3	1:A:89:LEU:CD2	2.17	0.67
2:B:1670:ASP:H	2:B:1673:GLN:HE21	1.42	0.67
1:C:730:ALA:HB2	1:C:781:ILE:HD11	1.75	0.67
1:C:964:ILE:HG12	1:C:1038:PHE:CG	2.30	0.67
2:B:2945:PHE:CD2	2:B:3143:PRO:HG2	2.29	0.67
1:C:101:LEU:HD23	1:C:137:ARG:HH22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:788:LEU:HB3	1:C:790:LEU:HG	1.76	0.67
1:A:101:LEU:HD23	1:A:137:ARG:HH22	1.60	0.67
1:A:155:LEU:O	1:A:159:VAL:HG13	1.94	0.67
1:C:26:LEU:HB2	1:C:83:LYS:CD	2.24	0.67
2:D:3328:PHE:HE1	2:D:3364:GLY:CA	2.07	0.67
2:B:1768:GLU:CA	2:B:1771:THR:HG22	2.25	0.67
1:A:1226:LYS:CE	1:A:1226:LYS:HA	2.21	0.67
2:B:3328:PHE:HE1	2:B:3364:GLY:CA	2.07	0.67
2:B:2401:PHE:CE1	2:B:2460:ILE:HG21	2.30	0.67
1:C:1484:GLN:CD	2:D:2065:ILE:HD13	2.15	0.67
1:C:373:LEU:HD22	1:C:373:LEU:H	1.60	0.67
1:C:1575:HIS:HB3	2:D:2783:HIS:CG	2.30	0.67
2:D:2175:TRP:HB2	2:D:2263:ILE:CD1	2.23	0.67
2:D:2432:LEU:CD2	2:D:2481:THR:HG21	2.25	0.67
2:B:2173:TRP:HZ2	2:B:2179:ILE:CD1	2.07	0.67
1:C:442:ALA:HB1	1:C:505:ARG:HB2	1.77	0.67
1:C:183:HIS:ND1	1:C:194:MET:CG	2.52	0.67
1:C:26:LEU:HA	1:C:83:LYS:HD2	1.76	0.67
1:A:1547:ASP:HB3	1:A:1648:PHE:CZ	2.29	0.67
2:B:1809:ASP:HB3	2:B:1812:PHE:CE2	2.30	0.67
1:C:302:ARG:CZ	1:C:304:PHE:HZ	2.08	0.67
1:A:302:ARG:CZ	1:A:304:PHE:HZ	2.08	0.67
2:B:3081:LEU:H	2:B:3081:LEU:HD22	1.60	0.67
1:C:891:PHE:HB2	1:C:1183:MET:HE3	1.77	0.67
2:D:3208:GLY:HA2	2:D:3244:TRP:CE2	2.30	0.67
2:B:2432:LEU:CD2	2:B:2481:THR:HG21	2.25	0.67
1:C:1084:PHE:O	1:C:1097:LYS:HG2	1.95	0.67
1:C:560:ARG:CZ	1:C:617:MET:HG3	2.24	0.67
1:A:464:LEU:HD23	1:A:767:LYS:CE	2.25	0.67
1:A:698:LEU:HD12	1:A:700:TYR:CB	2.22	0.67
1:C:160:LEU:CD1	1:C:294:LEU:HD21	2.24	0.67
1:C:244:LYS:HZ2	1:C:263:THR:HB	1.59	0.67
2:D:1757:TRP:HB2	2:D:1876:ILE:CG2	2.25	0.67
2:B:1757:TRP:HZ3	2:B:1873:LEU:CD2	2.07	0.67
1:A:895:VAL:HG21	1:A:900:VAL:CB	2.23	0.67
1:A:1075:THR:HB	2:B:2482:ILE:CG2	2.25	0.67
2:D:1815:SER:CB	2:D:1820:HIS:CE1	2.77	0.67
1:C:224:GLN:O	1:C:227:ARG:HB3	1.95	0.67
2:D:2382:VAL:HG11	2:D:2484:TYR:CE1	2.31	0.67
1:C:1242:HIS:HB2	1:C:1476:TYR:HE1	1.58	0.66
1:A:153:THR:H	1:A:156:MET:HB3	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:153:THR:H	1:C:156:MET:HB3	1.60	0.66
1:C:19:LEU:HD13	1:C:85:ARG:HE	1.60	0.66
1:A:1156:LEU:HD21	1:A:1173:GLU:OE1	1.95	0.66
2:D:3177:LEU:H	2:D:3177:LEU:HD13	1.59	0.66
2:B:1689:MET:HG2	2:B:1698:PHE:HB2	1.77	0.66
2:D:2172:TYR:HB2	2:D:2293:PHE:CA	2.25	0.66
2:D:1829:LEU:HD13	2:D:1829:LEU:O	1.95	0.66
2:B:3208:GLY:HA2	2:B:3244:TRP:CE2	2.29	0.66
2:B:1808:ARG:HE	2:B:1810:ARG:HB2	1.59	0.66
2:B:2341:LYS:HD3	2:B:2341:LYS:O	1.94	0.66
2:B:2140:ILE:CG1	2:B:2143:MET:HG3	2.25	0.66
2:D:1793:ILE:HD13	2:D:1867:TYR:HD1	1.60	0.66
1:C:1319:TRP:HD1	1:C:1490:LEU:CD1	2.07	0.66
1:C:676:LEU:HD21	1:C:1365:ARG:N	2.11	0.66
1:A:676:LEU:HD21	1:A:1365:ARG:N	2.11	0.66
1:A:1249:GLN:HB2	1:A:1470:ARG:NH2	2.09	0.66
1:A:1647:LEU:HD12	1:A:1648:PHE:N	2.09	0.66
2:B:2999:TRP:CE3	2:B:3051:ILE:HG21	2.29	0.66
2:D:1851:HIS:HA	2:D:1862:ILE:HG22	1.75	0.66
1:A:845:LEU:HD11	1:A:926:PRO:HG3	1.76	0.66
1:C:408:GLY:N	1:C:653:PRO:HG2	2.06	0.66
1:C:1392:ASP:HB2	1:C:1395:PHE:CE1	2.30	0.66
1:A:373:LEU:HD22	1:A:373:LEU:H	1.60	0.66
1:A:224:GLN:OE1	1:A:229:LYS:HD3	1.96	0.66
2:D:2950:ASN:CB	2:D:2960:TYR:H	2.09	0.66
2:D:2291:HIS:O	2:D:2294:VAL:HG12	1.95	0.66
2:D:2156:GLN:NE2	2:D:2334:ASN:HD21	1.94	0.66
2:D:2300:VAL:HG13	2:D:2368:LEU:HD22	1.75	0.66
2:B:1793:ILE:HD13	2:B:1867:TYR:HD1	1.60	0.66
1:A:1331:LEU:O	1:A:1334:LYS:HB2	1.94	0.66
1:A:1363:ASN:HD21	1:A:1368:HIS:HB2	1.61	0.66
1:A:468:CYS:HB2	1:A:479:CYS:CA	2.25	0.66
1:C:273:LEU:HD22	1:C:275:TYR:CE2	2.27	0.66
2:D:3327:MET:HG2	2:D:3328:PHE:H	1.59	0.66
1:A:366:VAL:HA	1:A:369:MET:CE	2.22	0.66
1:A:643:TRP:O	1:A:647:GLN:HG2	1.96	0.66
2:D:2798:PHE:CE2	2:D:2884:PRO:HG3	2.30	0.66
2:D:3162:ASN:O	2:D:3165:VAL:HG22	1.95	0.66
2:B:3162:ASN:O	2:B:3165:VAL:HG22	1.95	0.66
2:B:3338:PRO:HB2	2:B:3379:SER:CB	2.26	0.66
2:B:2964:VAL:HG11	2:B:2969:ILE:HG13	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2336:ASN:O	2:B:2339:THR:HG22	1.95	0.66
1:C:1363:ASN:HD21	1:C:1368:HIS:HB2	1.61	0.66
1:C:1388:ARG:NH1	1:C:1450:VAL:HG21	2.11	0.66
1:A:148:LYS:CD	1:A:150:GLY:O	2.36	0.66
2:D:3318:VAL:HG22	2:D:3394:HIS:HB3	1.77	0.66
1:C:845:LEU:HD11	1:C:926:PRO:HG3	1.76	0.66
2:B:1811:LEU:HD12	2:B:1853:TRP:HE3	1.61	0.66
2:B:3308:ILE:CG1	2:B:3329:MET:HB2	2.25	0.66
2:D:2026:ILE:HD12	2:D:2030:LEU:HD11	1.77	0.66
2:D:3150:ASN:HD22	2:D:3152:ASP:HB2	1.61	0.66
1:C:481:VAL:CG2	1:C:487:PHE:HA	2.25	0.66
1:C:600:ILE:HG21	1:C:777:PHE:CZ	2.29	0.66
2:B:2912:ILE:CG2	2:B:2995:PRO:HB2	2.06	0.66
1:A:853:LEU:HD13	1:A:959:TRP:CZ2	2.30	0.66
1:A:943:HIS:CE1	1:A:946:TYR:CZ	2.84	0.66
1:A:931:THR:HG22	1:A:991:ILE:CG1	2.25	0.66
2:D:2036:ARG:HH21	2:D:2038:ASP:CB	2.05	0.66
1:C:931:THR:HG22	1:C:991:ILE:CG1	2.25	0.66
2:B:2761:TYR:HA	2:B:2764:PHE:HD1	1.59	0.66
1:A:224:GLN:O	1:A:227:ARG:HB3	1.95	0.66
2:D:2953:PRO:HD2	2:D:2960:TYR:HB3	1.76	0.66
2:B:1675:ASP:O	2:B:1679:GLN:HG3	1.95	0.66
1:A:286:THR:HG22	1:A:288:GLU:H	1.60	0.66
2:D:2102:ALA:O	2:D:2106:LEU:HG	1.96	0.66
2:B:2529:ASP:OD1	2:B:2534:GLY:HA2	1.95	0.66
1:C:1088:ALA:H	1:C:1097:LYS:HZ3	1.34	0.66
1:C:1325:VAL:HG11	1:C:1515:TYR:CE1	2.23	0.66
2:D:1880:GLN:NE2	2:D:1884:ILE:HG23	2.09	0.66
2:B:1844:GLU:O	2:B:1847:HIS:HB3	1.96	0.66
2:B:3216:LYS:HE2	2:B:3229:TYR:HD2	1.59	0.66
1:A:1151:PHE:C	1:A:1153:LYS:HD2	2.16	0.66
1:A:322:VAL:HA	1:A:379:VAL:HG12	1.77	0.66
1:C:1498:ASN:ND2	1:C:1503:THR:HG21	2.11	0.66
2:D:3338:PRO:HB2	2:D:3379:SER:CB	2.26	0.66
2:D:2124:LEU:HD12	2:D:2212:HIS:HE1	1.59	0.66
2:B:2102:ALA:O	2:B:2106:LEU:HG	1.96	0.66
2:B:1711:CYS:SG	2:B:1722:CYS:HA	2.36	0.66
2:D:2529:ASP:OD1	2:D:2534:GLY:HA2	1.95	0.66
1:C:446:PHE:CE2	1:C:455:TYR:HA	2.31	0.66
1:C:464:LEU:HD23	1:C:767:LYS:CE	2.25	0.66
1:C:1148:LEU:HB2	1:C:1187:TYR:CE2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1549:VAL:CG2	1:C:1607:ILE:HD11	2.26	0.66
1:A:408:GLY:N	1:A:653:PRO:HG2	2.06	0.66
2:D:3378:ALA:HB2	2:D:3384:CYS:HA	1.76	0.66
1:A:1034:ARG:HD2	1:A:1035:TYR:CE2	2.31	0.66
1:A:928:TRP:HZ3	1:A:1041:LEU:HD21	1.61	0.66
1:A:666:HIS:CD2	1:A:686:ALA:HB3	2.28	0.66
2:B:2953:PRO:HD2	2:B:2960:TYR:HB3	1.76	0.66
2:B:1829:LEU:O	2:B:1829:LEU:HD13	1.95	0.66
2:B:1695:SER:HB2	2:D:2195:TRP:HB3	1.76	0.66
2:B:1747:LYS:HZ3	2:D:2094:ARG:NE	1.91	0.66
1:A:26:LEU:HA	1:A:83:LYS:HD2	1.77	0.66
1:A:26:LEU:HB2	1:A:83:LYS:CD	2.24	0.66
1:A:1549:VAL:CG2	1:A:1607:ILE:HD11	2.26	0.66
2:D:1850:VAL:HG21	2:D:1877:HIS:CE1	2.31	0.66
1:C:1156:LEU:HD21	1:C:1173:GLU:OE1	1.95	0.66
2:B:3347:ALA:HB1	2:D:3315:PRO:HG3	1.76	0.66
2:B:1693:HIS:C	2:D:2101:TYR:CE2	2.69	0.66
2:D:2923:LEU:HD13	2:D:2995:PRO:HG3	1.76	0.66
1:C:322:VAL:HA	1:C:379:VAL:HG12	1.77	0.66
1:C:802:ILE:HB	1:C:810:LEU:HD12	1.78	0.66
1:A:1306:ILE:CG2	1:A:1595:MET:HB3	2.22	0.66
1:A:964:ILE:HG12	1:A:1038:PHE:CG	2.30	0.66
2:B:2498:SER:HB2	2:B:3397:ASP:CB	2.26	0.66
2:B:2596:THR:HG21	2:B:2773:PHE:CZ	2.30	0.66
2:D:1969:GLU:O	2:D:2070:ALA:HB2	1.96	0.66
2:B:2106:LEU:HD23	2:B:2164:HIS:CD2	2.30	0.66
1:C:1249:GLN:HB2	1:C:1470:ARG:NH2	2.10	0.66
1:C:1319:TRP:HA	1:C:1490:LEU:HD22	1.78	0.66
1:C:464:LEU:HD13	1:C:465:PRO:CA	2.24	0.66
2:D:3294:ARG:O	2:D:3304:ILE:HG22	1.95	0.66
2:B:3044:LYS:HG3	2:B:3045:PHE:N	2.10	0.66
2:D:1890:SER:HA	2:D:1893:ARG:NE	2.11	0.66
2:B:3340:LEU:HD21	2:B:3343:GLY:CA	2.26	0.66
1:A:600:ILE:HG21	1:A:777:PHE:CZ	2.29	0.66
2:D:2596:THR:HG21	2:D:2773:PHE:CZ	2.30	0.66
2:B:2127:LYS:HD3	2:B:2333:ILE:CD1	2.25	0.66
2:D:2140:ILE:CG1	2:D:2143:MET:HG3	2.25	0.66
2:D:2140:ILE:HG12	2:D:2143:MET:CB	2.24	0.66
2:D:2083:LYS:HD3	2:D:2169:ALA:HA	1.78	0.66
1:A:446:PHE:CE2	1:A:455:TYR:HA	2.31	0.66
1:A:552:GLU:HG3	1:A:554:ASN:N	2.07	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1662:THR:O	2:B:1893:ARG:CB	2.44	0.66
1:C:853:LEU:HD13	1:C:959:TRP:CZ2	2.31	0.66
1:A:1549:VAL:HG21	1:A:1646:ILE:HD11	1.76	0.66
2:D:1768:GLU:CA	2:D:1771:THR:HG22	2.25	0.66
2:D:3044:LYS:HG3	2:D:3045:PHE:N	2.10	0.66
1:C:493:LEU:O	1:C:493:LEU:HD23	1.95	0.66
2:B:2382:VAL:HG11	2:B:2484:TYR:CE1	2.31	0.66
1:C:454:GLY:O	1:C:458:THR:HG23	1.96	0.66
2:B:2083:LYS:HD3	2:B:2169:ALA:HA	1.78	0.66
2:B:2179:ILE:HD13	2:B:2182:ILE:HD13	1.77	0.66
2:B:2255:GLN:HA	2:B:2433:PHE:CE1	2.23	0.66
2:B:1707:LEU:HD21	2:B:2012:LYS:CD	2.26	0.66
2:B:2569:TRP:HB2	2:B:2736:LEU:HD13	1.78	0.66
1:A:1388:ARG:NH1	1:A:1450:VAL:HG21	2.11	0.66
2:B:1757:TRP:HB2	2:B:1876:ILE:CG2	2.25	0.66
2:D:2026:ILE:HB	2:D:2030:LEU:CD1	2.26	0.66
1:C:1484:GLN:NE2	2:D:2065:ILE:CB	2.57	0.66
2:D:2950:ASN:HB3	2:D:2960:TYR:H	1.61	0.66
2:D:3193:SER:O	2:D:3196:LEU:HB3	1.96	0.66
1:C:395:LEU:HD23	1:C:395:LEU:O	1.95	0.66
2:D:1707:LEU:HD21	2:D:2012:LYS:CD	2.26	0.65
1:C:1318:HIS:CG	1:C:1509:PRO:HB3	2.31	0.65
1:A:89:LEU:HD23	1:A:89:LEU:N	2.11	0.65
1:A:1325:VAL:CG1	1:A:1515:TYR:CE1	2.80	0.65
1:A:549:ILE:HG21	1:A:552:GLU:HG2	1.76	0.65
1:A:1657:THR:CB	2:B:1900:SER:CB	2.72	0.65
2:D:3292:ILE:HG23	2:D:3306:ILE:HB	1.77	0.65
2:B:1880:GLN:NE2	2:B:1884:ILE:HG23	2.09	0.65
2:D:2979:ILE:HD12	2:D:2980:GLN:N	2.11	0.65
1:C:1614:ASN:OD1	1:C:1616:VAL:HG13	1.96	0.65
2:B:2526:VAL:CG2	2:B:2581:LEU:HD23	2.20	0.65
2:B:2497:SER:CB	2:B:3322:ARG:NH1	2.59	0.65
2:B:3136:ILE:HD11	2:D:3345:TYR:OH	1.95	0.65
1:C:286:THR:HG22	1:C:288:GLU:H	1.60	0.65
2:B:1708:PRO:HD3	2:B:1795:PHE:CD1	2.31	0.65
2:B:2195:TRP:HA	2:D:1921:PRO:C	2.17	0.65
1:A:1084:PHE:O	1:A:1097:LYS:HG2	1.95	0.65
1:A:549:ILE:HB	1:A:552:GLU:HG2	1.77	0.65
1:A:576:THR:HG23	1:A:579:PHE:HB2	1.78	0.65
2:B:2979:ILE:HD12	2:B:2980:GLN:N	2.11	0.65
1:C:928:TRP:HZ3	1:C:1041:LEU:HD21	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1675:ASP:O	2:D:1679:GLN:HG3	1.95	0.65
2:B:2291:HIS:O	2:B:2294:VAL:HG12	1.95	0.65
2:B:2155:LEU:HG	2:B:2354:LEU:HD13	1.78	0.65
1:A:1087:SER:OG	1:A:1097:LYS:CD	2.39	0.65
1:A:95:THR:HG22	1:A:283:ASN:HD21	1.61	0.65
1:C:860:LEU:HB2	1:C:919:HIS:CD2	2.32	0.65
1:C:1079:GLU:CB	2:D:2456:GLU:CG	2.72	0.65
2:B:1907:ASN:ND2	2:B:1908:LEU:HD12	2.12	0.65
2:D:1811:LEU:HD12	2:D:1853:TRP:HE3	1.61	0.65
2:D:1844:GLU:O	2:D:1847:HIS:HB3	1.96	0.65
2:B:3318:VAL:HG22	2:B:3394:HIS:HB3	1.78	0.65
1:C:1151:PHE:C	1:C:1153:LYS:HD2	2.16	0.65
2:D:3102:PHE:CZ	2:D:3106:HIS:HE1	2.15	0.65
2:B:1991:GLN:CG	2:B:2001:ASP:HA	2.07	0.65
1:A:1148:LEU:HB2	1:A:1187:TYR:CE2	2.31	0.65
1:C:1034:ARG:HD2	1:C:1035:TYR:CE2	2.31	0.65
1:A:1498:ASN:ND2	1:A:1503:THR:HG21	2.11	0.65
2:D:1689:MET:HE3	2:D:1698:PHE:HD1	1.61	0.65
2:B:2950:ASN:HB3	2:B:2960:TYR:H	1.61	0.65
1:A:454:GLY:O	1:A:458:THR:HG23	1.96	0.65
1:A:98:ILE:O	1:A:145:GLU:HB3	1.97	0.65
1:A:46:ALA:HB1	1:A:55:ILE:O	1.97	0.65
2:B:2633:LYS:HZ2	2:B:2633:LYS:HA	1.61	0.65
2:D:2083:LYS:NZ	2:D:2158:GLU:HB3	2.12	0.65
2:D:2103:LEU:HD11	2:D:2204:PHE:CE2	2.31	0.65
2:D:2106:LEU:HD23	2:D:2164:HIS:CD2	2.30	0.65
2:D:2214:THR:HG22	2:D:2215:TYR:N	2.11	0.65
2:B:2100:LYS:HE2	2:B:2203:PRO:CD	2.26	0.65
2:B:2214:THR:HG22	2:B:2215:TYR:N	2.11	0.65
1:A:1318:HIS:CG	1:A:1509:PRO:HB3	2.31	0.65
1:A:587:GLU:HG2	1:A:719:ILE:CG2	2.25	0.65
1:C:241:LEU:HD13	1:C:241:LEU:O	1.97	0.65
2:D:1724:VAL:HG11	2:D:1729:THR:HB	1.79	0.65
2:D:2401:PHE:CE1	2:D:2460:ILE:HG21	2.30	0.65
1:C:1036:THR:CG2	1:C:1042:PHE:HD2	2.04	0.65
1:C:895:VAL:HG12	1:C:904:TRP:CB	2.26	0.65
2:D:3144:PHE:HA	2:D:3149:VAL:HG11	1.79	0.65
1:A:995:VAL:O	1:A:999:LEU:HG	1.96	0.65
2:D:1689:MET:HG2	2:D:1698:PHE:HB2	1.77	0.65
2:D:2887:GLU:HG2	2:D:2888:HIS:N	2.10	0.65
1:A:63:PRO:HA	1:A:172:GLU:HG3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2175:TRP:HB2	2:B:2263:ILE:CD1	2.23	0.65
2:B:2220:VAL:HG22	2:B:2267:VAL:HA	1.77	0.65
2:B:2220:VAL:HG13	2:B:2266:LEU:HD11	1.77	0.65
2:B:2156:GLN:NE2	2:B:2334:ASN:HD21	1.94	0.65
1:C:1086:LEU:CD2	1:C:1090:ILE:HD13	2.16	0.65
1:A:241:LEU:CD2	1:A:264:PRO:HB2	2.24	0.65
1:A:1271:GLU:O	1:A:1274:ARG:HG2	1.96	0.65
1:A:698:LEU:HB3	1:A:700:TYR:HD1	1.62	0.65
2:B:2998:ASP:O	2:B:3001:GLN:HG2	1.96	0.65
2:D:2893:LYS:HG2	2:D:2894:HIS:N	2.11	0.65
1:A:1202:LEU:CB	1:A:1204:LEU:HG	2.27	0.65
1:A:1236:HIS:HD2	1:A:1238:PRO:HD3	1.60	0.65
1:C:63:PRO:HA	1:C:172:GLU:HG3	1.78	0.65
2:D:2155:LEU:HG	2:D:2354:LEU:HD13	1.78	0.65
2:B:1890:SER:HA	2:B:1893:ARG:NE	2.11	0.65
2:D:1671:ILE:HD11	2:D:1769:LEU:CD1	2.27	0.65
2:B:1850:VAL:HG21	2:B:1877:HIS:CE1	2.31	0.65
2:B:3307:PRO:HG2	2:B:3328:PHE:HA	1.79	0.65
2:D:3316:PRO:CB	2:D:3392:HIS:HB3	2.12	0.65
2:B:2403:ILE:HD11	2:B:2452:PHE:CD1	2.32	0.65
1:A:860:LEU:HB2	1:A:919:HIS:CD2	2.32	0.65
1:A:1012:GLU:O	1:A:1015:HIS:HB3	1.97	0.65
2:D:3204:PHE:HB3	2:D:3206:LEU:HD22	1.79	0.65
1:C:1202:LEU:CB	1:C:1204:LEU:HG	2.27	0.65
2:D:2387:GLY:HA3	2:D:2481:THR:HG23	1.79	0.65
2:B:2083:LYS:NZ	2:B:2158:GLU:HB3	2.12	0.65
2:D:1706:ALA:CB	2:D:1866:HIS:HA	2.27	0.65
1:C:428:ILE:HD13	1:C:514:TRP:HA	1.78	0.65
1:A:452:VAL:HG12	1:A:1365:ARG:HG3	1.78	0.65
2:D:3307:PRO:HG2	2:D:3328:PHE:HA	1.79	0.65
2:D:3340:LEU:HD21	2:D:3343:GLY:CA	2.26	0.65
2:B:3042:GLN:HG2	2:B:3049:SER:OG	1.96	0.65
2:B:3112:ILE:O	2:B:3115:ILE:HG12	1.97	0.65
2:D:1769:LEU:HB3	2:D:1770:LEU:HD12	1.79	0.65
2:D:1804:ARG:NH1	2:D:1873:LEU:HB2	2.12	0.65
2:D:3042:GLN:HG2	2:D:3049:SER:OG	1.96	0.65
2:B:2026:ILE:HB	2:B:2030:LEU:CD1	2.26	0.65
2:B:2026:ILE:HD12	2:B:2030:LEU:HD11	1.77	0.65
1:A:895:VAL:HG12	1:A:904:TRP:CB	2.26	0.65
1:A:802:ILE:HB	1:A:810:LEU:HD12	1.78	0.65
2:D:2526:VAL:CG2	2:D:2581:LEU:HD23	2.20	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:408:GLY:N	1:C:653:PRO:CG	2.60	0.65
1:A:991:ILE:O	1:A:995:VAL:HG22	1.97	0.65
2:B:2929:LYS:HA	2:B:2932:ASN:ND2	2.12	0.65
2:D:3039:ILE:HG22	2:D:3040:PHE:N	2.12	0.65
2:D:3081:LEU:H	2:D:3081:LEU:HD22	1.60	0.65
2:B:2195:TRP:HB2	2:D:1922:TYR:HA	1.58	0.65
1:C:1271:GLU:O	1:C:1274:ARG:HG2	1.96	0.65
1:A:1310:VAL:CG2	1:A:1316:PHE:HA	2.25	0.65
1:A:1242:HIS:HB2	1:A:1476:TYR:HE1	1.57	0.65
1:A:509:ILE:CG2	1:A:510:GLY:N	2.60	0.65
1:C:163:LEU:O	1:C:163:LEU:HD13	1.97	0.65
2:B:3292:ILE:HG23	2:B:3306:ILE:HB	1.77	0.65
2:D:3112:ILE:O	2:D:3115:ILE:HG12	1.97	0.65
1:A:1422:ILE:HA	1:A:1425:ASN:ND2	2.12	0.65
1:A:216:ILE:HD13	1:A:219:ILE:HD12	1.78	0.65
2:B:2950:ASN:CB	2:B:2960:TYR:H	2.09	0.65
2:B:1969:GLU:O	2:B:2070:ALA:HB2	1.96	0.65
2:D:2811:PHE:O	2:D:2823:ALA:HB3	1.97	0.65
1:A:395:LEU:O	1:A:395:LEU:HD23	1.95	0.65
2:D:2182:ILE:HD11	2:D:2224:LEU:CD1	2.27	0.65
2:D:2688:LEU:HD13	2:D:2829:LEU:CD1	2.27	0.65
1:A:163:LEU:HD13	1:A:163:LEU:O	1.97	0.65
1:A:1319:TRP:HA	1:A:1490:LEU:HD22	1.78	0.65
1:A:1274:ARG:NH1	1:A:1365:ARG:NH2	2.42	0.65
1:A:428:ILE:HD13	1:A:514:TRP:HA	1.78	0.65
1:C:88:GLY:O	1:C:90:PRO:HD3	1.97	0.65
2:B:3150:ASN:HD22	2:B:3152:ASP:HB2	1.61	0.65
1:C:1618:LEU:CD1	2:D:1906:VAL:HG11	2.25	0.65
1:C:1235:ILE:HG23	2:D:2319:VAL:HG23	1.78	0.65
2:B:2634:LEU:HD12	2:B:2676:TRP:CE3	2.26	0.65
2:D:1965:ARG:HD2	2:D:2074:ILE:H	1.62	0.65
2:D:2207:GLY:O	2:D:2216:THR:HG23	1.97	0.65
2:B:2811:PHE:O	2:B:2823:ALA:HB3	1.97	0.65
1:C:46:ALA:HB1	1:C:55:ILE:O	1.97	0.65
2:D:2244:LEU:HD11	2:D:2304:LEU:CD2	2.27	0.65
2:D:2336:ASN:O	2:D:2339:THR:HG22	1.95	0.65
2:D:1711:CYS:SG	2:D:1722:CYS:HA	2.36	0.65
1:C:560:ARG:HD3	1:C:610:GLY:N	2.07	0.65
2:B:1907:ASN:CG	2:B:1908:LEU:HD12	2.17	0.65
2:B:1769:LEU:HB3	2:B:1770:LEU:HD12	1.79	0.65
2:B:2446:ILE:HG21	2:B:2452:PHE:CE1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2998:ASP:O	2:D:3001:GLN:HG2	1.97	0.65
2:B:2000:GLU:HG3	2:B:2033:MET:SD	2.37	0.65
1:C:602:HIS:CE1	1:C:636:VAL:HG21	2.31	0.65
2:B:3243:PRO:CG	2:D:3354:PRO:CB	2.66	0.65
1:A:853:LEU:HD21	1:A:921:TYR:CE2	2.32	0.65
2:B:1965:ARG:HD2	2:B:2074:ILE:H	1.62	0.65
2:B:3020:PHE:CE2	2:B:3021:LYS:HE3	2.32	0.65
1:C:216:ILE:HD13	1:C:219:ILE:HD12	1.78	0.65
1:C:1280:ILE:HA	1:C:1334:LYS:HD2	1.79	0.64
2:D:2566:PHE:CD1	2:D:2567:PRO:HD3	2.31	0.64
1:C:468:CYS:HB2	1:C:479:CYS:CA	2.25	0.64
1:C:549:ILE:HB	1:C:552:GLU:HG2	1.78	0.64
1:C:576:THR:HG23	1:C:579:PHE:HB2	1.78	0.64
1:A:20:GLN:HA	1:A:122:TYR:CZ	2.32	0.64
1:C:95:THR:HG22	1:C:283:ASN:HD21	1.61	0.64
2:D:3308:ILE:CG1	2:D:3329:MET:HB2	2.25	0.64
1:A:1614:ASN:OD1	1:A:1616:VAL:HG13	1.97	0.64
2:B:3291:ILE:CD1	2:B:3314:LEU:HD13	2.25	0.64
2:D:2971:PRO:HG2	2:D:3064:TYR:OH	1.98	0.64
1:C:1409:GLU:CG	1:C:1544:LYS:HE2	2.27	0.64
1:C:1012:GLU:O	1:C:1015:HIS:HB3	1.97	0.64
1:C:928:TRP:NE1	1:C:934:LEU:HD11	2.12	0.64
1:C:224:GLN:OE1	1:C:229:LYS:HD3	1.96	0.64
2:D:2822:PHE:HE2	2:D:2825:THR:HG23	1.62	0.64
2:B:1687:GLU:HG3	2:B:1690:LYS:HZ1	1.61	0.64
1:C:98:ILE:O	1:C:145:GLU:HB3	1.96	0.64
2:D:3194:LEU:H	2:D:3194:LEU:HD12	1.62	0.64
2:B:1828:LEU:HD23	2:B:1828:LEU:O	1.96	0.64
2:B:2103:LEU:HD11	2:B:2204:PHE:CE2	2.31	0.64
2:B:2387:GLY:HA3	2:B:2481:THR:HG23	1.79	0.64
2:B:1695:SER:CA	2:D:2195:TRP:HD1	2.10	0.64
2:B:2688:LEU:HD13	2:B:2829:LEU:CD1	2.27	0.64
2:B:2971:PRO:HG2	2:B:3064:TYR:OH	1.97	0.64
1:A:602:HIS:CE1	1:A:636:VAL:HG21	2.31	0.64
2:B:3213:ALA:O	2:B:3234:VAL:HG23	1.97	0.64
2:D:2622:LEU:HD12	2:D:2624:VAL:CB	2.27	0.64
2:B:3204:PHE:HB3	2:B:3206:LEU:HD22	1.79	0.64
2:D:2127:LYS:HD3	2:D:2333:ILE:CD1	2.25	0.64
2:D:1689:MET:HA	2:D:1748:HIS:CE1	2.32	0.64
2:D:2856:LEU:HD13	2:D:2862:PHE:HB3	1.80	0.64
2:D:2220:VAL:HG13	2:D:2266:LEU:HD11	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2220:VAL:HG22	2:D:2267:VAL:HA	1.77	0.64
2:D:2569:TRP:HB2	2:D:2736:LEU:HD13	1.78	0.64
1:C:146:LYS:HZ2	1:C:148:LYS:HE3	1.62	0.64
1:A:1618:LEU:CD2	1:A:1648:PHE:HB2	2.28	0.64
2:B:1693:HIS:O	2:D:2101:TYR:CZ	2.51	0.64
2:D:2403:ILE:HD11	2:D:2452:PHE:CD1	2.32	0.64
1:C:895:VAL:HG23	1:C:898:MET:HE3	1.79	0.64
2:D:2794:THR:OG1	2:D:2847:ILE:HD11	1.97	0.64
2:B:3076:ASN:CB	2:B:3236:LEU:HD13	2.28	0.64
2:D:2152:LEU:HD23	2:D:2329:PHE:CD2	2.33	0.64
2:B:2155:LEU:HG	2:B:2354:LEU:HD22	1.79	0.64
2:B:2173:TRP:CZ2	2:B:2179:ILE:HD12	2.33	0.64
2:B:2388:PHE:HB2	2:B:2433:PHE:HB3	1.80	0.64
2:D:1708:PRO:HD3	2:D:1795:PHE:CD1	2.31	0.64
1:C:1427:LEU:CD1	1:C:1431:LEU:HD12	2.27	0.64
1:C:80:LEU:O	1:C:83:LYS:HB2	1.97	0.64
1:C:89:LEU:N	1:C:89:LEU:HD23	2.11	0.64
1:C:1107:ASP:CG	1:C:1110:THR:HG22	2.18	0.64
2:D:2401:PHE:CE2	2:D:2413:GLY:HA3	2.33	0.64
2:B:2401:PHE:CE2	2:B:2413:GLY:HA3	2.33	0.64
2:D:3071:TYR:CE1	2:D:3109:LEU:HD22	2.33	0.64
2:B:2627:THR:HG23	2:B:2681:THR:HG23	1.79	0.64
2:D:1907:ASN:ND2	2:D:1908:LEU:HD12	2.12	0.64
2:D:3213:ALA:O	2:D:3234:VAL:HG23	1.98	0.64
1:C:1422:ILE:HA	1:C:1425:ASN:ND2	2.11	0.64
2:B:3193:SER:O	2:B:3196:LEU:HB3	1.96	0.64
2:B:2651:LEU:HD13	2:B:2651:LEU:O	1.98	0.64
2:D:2651:LEU:O	2:D:2651:LEU:HD13	1.98	0.64
2:D:2100:LYS:HE2	2:D:2203:PRO:CD	2.26	0.64
2:D:2179:ILE:HD13	2:D:2182:ILE:HD13	1.77	0.64
1:C:1318:HIS:O	1:C:1322:LEU:HD23	1.98	0.64
1:C:1491:GLN:CD	1:C:1494:ASP:HB2	2.18	0.64
1:C:549:ILE:HG21	1:C:552:GLU:HG2	1.76	0.64
1:C:587:GLU:HG2	1:C:719:ILE:CG2	2.25	0.64
1:A:241:LEU:HD13	1:A:241:LEU:O	1.97	0.64
2:B:2566:PHE:CD1	2:B:2567:PRO:HD3	2.31	0.64
1:C:1078:ARG:HB2	2:D:2457:PRO:CD	2.16	0.64
1:C:1079:GLU:CB	2:D:2456:GLU:HG3	2.26	0.64
2:B:2965:HIS:HA	2:B:2970:PHE:HD1	1.63	0.64
2:D:1770:LEU:N	2:D:1770:LEU:HD12	2.12	0.64
2:B:1671:ILE:HD11	2:B:1769:LEU:CD1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3247:GLU:HG3	2:B:3248:ARG:HG2	1.79	0.64
2:B:3344:SER:HB3	2:B:3348:MET:CB	2.27	0.64
2:B:1724:VAL:HG11	2:B:1729:THR:HB	1.79	0.64
2:D:1973:VAL:HG23	2:D:2026:ILE:CG1	2.19	0.64
1:A:748:LYS:HB2	1:A:754:GLN:HE21	1.63	0.64
2:B:3104:ILE:HG13	2:B:3105:HIS:N	2.12	0.64
1:C:582:ILE:HG12	1:C:601:THR:HG21	1.80	0.64
2:B:2794:THR:OG1	2:B:2847:ILE:HD11	1.97	0.64
1:A:1409:GLU:CG	1:A:1544:LYS:HE2	2.27	0.64
1:A:1345:TRP:HZ2	1:A:1430:LEU:HD22	1.63	0.64
2:B:3195:ARG:HH12	2:B:3295:ARG:NE	1.95	0.64
2:B:3163:ALA:O	2:B:3169:ARG:HD3	1.98	0.64
2:B:2040:ILE:O	2:B:2040:ILE:HG13	1.98	0.64
1:C:1242:HIS:CE1	1:C:1477:ARG:HH21	2.15	0.64
1:C:1491:GLN:HE22	1:C:1495:LYS:HE2	1.62	0.64
1:C:452:VAL:HG12	1:C:1365:ARG:HG3	1.78	0.64
1:C:509:ILE:CG2	1:C:510:GLY:N	2.59	0.64
1:A:80:LEU:O	1:A:83:LYS:HB2	1.97	0.64
2:D:3247:GLU:HG3	2:D:3248:ARG:HG2	1.79	0.64
1:A:1604:LYS:NZ	1:A:1647:LEU:HD23	2.12	0.64
2:B:3102:PHE:CZ	2:B:3106:HIS:HE1	2.15	0.64
2:B:1804:ARG:NH1	2:B:1873:LEU:HB2	2.13	0.64
2:D:3115:ILE:HG13	2:D:3116:TRP:N	2.13	0.64
2:D:2000:GLU:HG3	2:D:2033:MET:SD	2.37	0.64
2:D:2979:ILE:O	2:D:2983:ARG:HG3	1.98	0.64
2:B:3016:ASN:O	2:B:3018:PRO:HD3	1.98	0.64
1:C:643:TRP:O	1:C:647:GLN:HG2	1.96	0.64
1:C:995:VAL:O	1:C:999:LEU:HG	1.96	0.64
1:A:928:TRP:NE1	1:A:934:LEU:HD11	2.12	0.64
2:B:2497:SER:HB2	2:B:3322:ARG:NH1	2.13	0.64
2:D:3020:PHE:CE2	2:D:3021:LYS:HE3	2.33	0.64
1:C:1287:GLU:OE1	1:C:1380:THR:HG22	1.98	0.64
2:D:1977:PHE:HE1	2:D:2063:PRO:HG3	1.62	0.64
2:D:2275:LEU:HD22	2:D:2275:LEU:H	1.63	0.64
2:B:2151:ARG:O	2:B:2155:LEU:HD23	1.98	0.64
2:B:1706:ALA:CB	2:B:1866:HIS:HA	2.27	0.64
2:D:1696:ASP:O	2:D:1701:ILE:HD11	1.98	0.64
2:B:2527:MET:HA	2:B:2535:TYR:HB2	1.80	0.64
2:D:2527:MET:HA	2:D:2535:TYR:HB2	1.80	0.64
1:C:446:PHE:HB2	1:C:505:ARG:CD	2.28	0.64
1:C:549:ILE:CB	1:C:552:GLU:HG2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:579:PHE:CE1	1:C:718:MET:HE1	2.32	0.64
1:A:23:LEU:CD2	1:A:122:TYR:HD2	2.05	0.64
1:A:446:PHE:CE1	1:A:501:ALA:HB1	2.33	0.64
1:A:646:LEU:HD23	1:A:646:LEU:O	1.98	0.64
2:D:3291:ILE:CD1	2:D:3314:LEU:HD13	2.25	0.64
2:D:3344:SER:HB3	2:D:3348:MET:CB	2.27	0.64
1:C:853:LEU:HD21	1:C:921:TYR:CE2	2.32	0.64
1:C:1212:ILE:O	1:C:1212:ILE:HG13	1.97	0.64
2:D:2971:PRO:HB3	2:D:3071:TYR:CE2	2.33	0.64
1:A:582:ILE:HG12	1:A:601:THR:HG21	1.80	0.64
1:C:991:ILE:O	1:C:995:VAL:HG22	1.97	0.64
1:A:1145:GLY:HA3	1:A:1190:VAL:HG11	1.80	0.64
2:B:2568:HIS:HD2	2:B:2708:TRP:CH2	2.16	0.64
2:B:3039:ILE:HG22	2:B:3040:PHE:N	2.12	0.64
1:A:1059:LEU:HD11	1:A:1063:ARG:NH2	2.13	0.64
2:D:3195:ARG:HH12	2:D:3295:ARG:NE	1.95	0.64
2:D:1828:LEU:HD23	2:D:1828:LEU:O	1.96	0.64
2:D:2155:LEU:HG	2:D:2354:LEU:HD22	1.79	0.64
2:B:2140:ILE:HG12	2:B:2143:MET:CB	2.24	0.64
1:A:244:LYS:HZ3	1:A:263:THR:HB	1.62	0.64
1:A:241:LEU:HD11	1:A:265:ALA:N	2.13	0.64
1:A:19:LEU:HD13	1:A:85:ARG:HE	1.60	0.64
1:A:1242:HIS:CE1	1:A:1477:ARG:HH21	2.15	0.64
1:A:1491:GLN:CD	1:A:1494:ASP:HB2	2.18	0.64
2:B:3071:TYR:CE1	2:B:3109:LEU:HD22	2.33	0.64
1:A:1212:ILE:HG13	1:A:1212:ILE:O	1.97	0.64
2:D:2777:THR:CG2	2:D:2780:LYS:H	2.11	0.64
2:B:2979:ILE:O	2:B:2983:ARG:HG3	1.98	0.64
1:A:943:HIS:HE1	1:A:946:TYR:CE1	2.16	0.64
1:C:319:PHE:HD2	1:C:337:LYS:CE	2.10	0.64
2:B:3322:ARG:HH21	2:B:3397:ASP:HB2	1.63	0.64
1:A:319:PHE:HD2	1:A:337:LYS:CE	2.10	0.64
2:D:2761:TYR:O	2:D:2764:PHE:HB2	1.98	0.64
2:D:2929:LYS:HA	2:D:2932:ASN:ND2	2.11	0.64
2:D:3322:ARG:HH21	2:D:3397:ASP:HB2	1.63	0.64
1:A:1287:GLU:OE1	1:A:1380:THR:HG22	1.98	0.64
2:B:2760:GLU:HB3	2:B:2763:ARG:CD	2.28	0.64
2:D:2151:ARG:O	2:D:2155:LEU:HD23	1.97	0.64
2:B:2209:VAL:HG23	2:B:2283:TYR:CE2	2.33	0.64
1:A:1086:LEU:HD22	1:A:1090:ILE:CD1	2.17	0.64
2:B:2538:ILE:CD1	2:B:2577:MET:HE3	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1365:ARG:HG3	1:C:1366:GLN:OE1	1.96	0.64
1:C:698:LEU:HD12	1:C:700:TYR:HD1	1.61	0.64
1:A:1280:ILE:HA	1:A:1334:LYS:HD2	1.80	0.64
1:C:270:TYR:HA	1:C:273:LEU:HD13	1.80	0.64
1:C:943:HIS:HE1	1:C:946:TYR:CE1	2.16	0.64
2:B:3187:LEU:HD12	2:B:3190:VAL:HG11	1.80	0.64
1:C:1566:VAL:HG22	1:C:1626:ILE:HG22	1.80	0.64
1:C:1604:LYS:NZ	1:C:1647:LEU:HD23	2.12	0.64
2:B:1800:VAL:CG2	2:B:1803:LYS:HE2	2.26	0.64
1:A:1379:ILE:HD11	1:A:1381:HIS:CE1	2.33	0.64
1:C:1059:LEU:HD11	1:C:1063:ARG:NH2	2.13	0.64
2:B:2856:LEU:HD13	2:B:2862:PHE:HB3	1.80	0.64
2:B:1684:LYS:HE3	2:D:2162:ARG:HH22	1.62	0.64
2:B:3194:LEU:HD12	2:B:3194:LEU:H	1.62	0.64
2:B:2182:ILE:HD11	2:B:2224:LEU:CD1	2.27	0.64
1:C:1310:VAL:CG2	1:C:1316:PHE:HA	2.25	0.64
1:C:698:LEU:HB3	1:C:700:TYR:HD1	1.62	0.64
1:A:676:LEU:CD1	1:A:1365:ARG:HD2	2.28	0.64
1:C:123:TRP:CH2	1:C:208:LEU:HD21	2.33	0.64
1:C:241:LEU:CD2	1:C:264:PRO:HB2	2.24	0.64
1:C:853:LEU:HD23	1:C:921:TYR:CG	2.33	0.64
1:A:582:ILE:HG22	1:A:586:PHE:CE1	2.33	0.64
1:A:486:ILE:CD1	1:A:688:PRO:HG2	2.17	0.64
1:C:1345:TRP:HZ2	1:C:1430:LEU:HD22	1.63	0.64
2:B:2665:GLN:NE2	2:B:2844:ARG:H	1.92	0.64
2:D:2350:LYS:HG3	2:D:2352:GLU:OE1	1.98	0.64
2:B:2542:HIS:CB	2:B:2692:THR:HB	2.28	0.63
1:C:646:LEU:O	1:C:646:LEU:HD23	1.98	0.63
1:A:1239:ARG:HG3	1:A:1241:GLY:O	1.98	0.63
1:A:710:ILE:HG22	1:A:711:SER:O	1.99	0.63
1:C:943:HIS:CE1	1:C:946:TYR:CZ	2.84	0.63
2:D:3082:ILE:HB	2:D:3090:MET:CE	2.28	0.63
2:B:2654:LEU:HD13	2:B:2781:LEU:HD21	1.80	0.63
1:C:1404:VAL:HA	1:C:1423:LEU:CD2	2.29	0.63
2:D:1800:VAL:CG2	2:D:1803:LYS:HE2	2.26	0.63
1:A:1141:ARG:HD2	1:A:1143:PHE:HZ	1.63	0.63
1:A:170:LYS:O	1:A:173:ILE:HG12	1.98	0.63
2:B:1689:MET:HA	2:B:1748:HIS:CE1	2.32	0.63
2:D:3200:VAL:O	2:D:3254:ILE:HD13	1.98	0.63
2:D:2812:ASP:OD1	2:D:2865:HIS:HB3	1.98	0.63
2:B:2812:ASP:OD1	2:B:2865:HIS:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:676:LEU:CD1	1:C:1365:ARG:HD2	2.28	0.63
1:A:88:GLY:O	1:A:90:PRO:HD3	1.97	0.63
1:A:1427:LEU:CD1	1:A:1431:LEU:HD12	2.27	0.63
1:A:1472:ARG:O	1:A:1473:LYS:HG2	1.98	0.63
1:C:234:MET:HB2	1:C:268:PHE:CZ	2.34	0.63
1:A:1662:THR:CB	2:B:1893:ARG:HB2	2.27	0.63
2:D:2965:HIS:HA	2:D:2970:PHE:HD1	1.63	0.63
2:B:2622:LEU:HD12	2:B:2624:VAL:CB	2.27	0.63
2:D:2345:PRO:HA	2:D:2348:VAL:CG1	2.26	0.63
2:B:1977:PHE:HE1	2:B:2063:PRO:HG3	1.62	0.63
2:D:3163:ALA:O	2:D:3169:ARG:HD3	1.98	0.63
2:D:2741:ASP:HB3	2:D:2743:ILE:HG22	1.81	0.63
1:A:1539:MET:O	1:A:1539:MET:HE2	1.99	0.63
1:A:1091:ASN:HB3	1:A:1097:LYS:HE3	1.79	0.63
1:C:446:PHE:CE1	1:C:501:ALA:HB1	2.33	0.63
1:C:710:ILE:HG22	1:C:711:SER:O	1.99	0.63
1:A:1318:HIS:O	1:A:1322:LEU:HD23	1.98	0.63
1:A:549:ILE:HD13	1:A:622:TYR:CD1	2.34	0.63
1:A:549:ILE:CB	1:A:552:GLU:HG2	2.27	0.63
1:C:197:LEU:HD23	1:C:344:LEU:CD1	2.29	0.63
1:C:1156:LEU:HD13	1:C:1175:TYR:CD2	2.32	0.63
2:D:2772:ARG:HG2	2:D:2777:THR:HA	1.79	0.63
2:B:3082:ILE:HB	2:B:3090:MET:CE	2.28	0.63
1:A:931:THR:HA	1:A:991:ILE:CG2	2.28	0.63
1:C:1013:ILE:HG12	1:C:1191:PHE:CE1	2.33	0.63
1:C:1235:ILE:HG23	2:D:2319:VAL:CG2	2.29	0.63
1:A:1539:MET:HA	1:A:1539:MET:HE3	1.80	0.63
1:C:2:ASN:ND2	1:C:276:ASP:HB2	2.13	0.63
2:D:2099:LEU:HB3	2:D:2204:PHE:CZ	2.32	0.63
2:B:2140:ILE:HG23	2:B:2146:PHE:CA	2.28	0.63
2:B:2275:LEU:HD22	2:B:2275:LEU:H	1.63	0.63
2:B:2278:LEU:HD22	2:B:2421:GLY:H	1.63	0.63
2:B:1714:PRO:CB	2:B:1922:TYR:CZ	2.80	0.63
1:C:499:GLU:HA	1:C:502:LEU:HD13	1.81	0.63
1:C:576:THR:HG23	1:C:579:PHE:H	1.64	0.63
1:A:270:TYR:HA	1:A:273:LEU:HD13	1.80	0.63
1:A:468:CYS:HB3	1:A:477:TYR:CE1	2.34	0.63
1:A:424:VAL:O	1:A:509:ILE:HG23	1.98	0.63
1:A:1606:ASP:OD1	1:A:1608:THR:HG23	1.98	0.63
2:B:3115:ILE:HG13	2:B:3116:TRP:N	2.13	0.63
2:D:1849:GLY:O	2:D:1852:THR:HG22	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1156:LEU:HD13	1:A:1175:TYR:CD2	2.32	0.63
2:D:2974:HIS:NE2	3:D:9008:CUO:O2	2.31	0.63
2:D:1991:GLN:HG2	2:D:2001:ASP:CA	2.07	0.63
2:D:3016:ASN:O	2:D:3018:PRO:HD3	1.98	0.63
1:A:1107:ASP:CG	1:A:1110:THR:HG22	2.18	0.63
2:D:2568:HIS:HD2	2:D:2708:TRP:CH2	2.16	0.63
2:D:2206:ARG:NH1	2:D:2217:VAL:HA	2.14	0.63
1:A:2:ASN:ND2	1:A:276:ASP:HB2	2.13	0.63
1:C:1240:ILE:O	1:C:1240:ILE:HG13	1.98	0.63
2:D:2305:GLN:OE1	2:D:2308:ARG:HD2	1.99	0.63
2:B:2152:LEU:HD23	2:B:2329:PHE:CD2	2.33	0.63
2:B:2244:LEU:CD1	2:B:2304:LEU:HD22	2.29	0.63
2:D:2542:HIS:CB	2:D:2692:THR:HB	2.28	0.63
1:C:1472:ARG:O	1:C:1473:LYS:HG2	1.98	0.63
1:C:468:CYS:HB3	1:C:477:TYR:CE1	2.34	0.63
1:A:19:LEU:HB2	1:A:85:ARG:CZ	2.28	0.63
1:A:273:LEU:HD22	1:A:275:TYR:CE2	2.27	0.63
2:D:3291:ILE:HD11	2:D:3314:LEU:CD1	2.28	0.63
2:B:3144:PHE:HA	2:B:3149:VAL:HG11	1.79	0.63
2:D:1907:ASN:CG	2:D:1908:LEU:HD12	2.18	0.63
1:A:408:GLY:N	1:A:653:PRO:CG	2.60	0.63
1:A:930:TRP:CZ2	1:A:991:ILE:HD13	2.34	0.63
2:D:2112:ALA:O	2:D:2117:ALA:HB3	1.99	0.63
2:B:2207:GLY:O	2:B:2216:THR:HG23	1.97	0.63
2:B:2224:LEU:HD13	2:B:2266:LEU:HD21	1.80	0.63
2:B:1695:SER:CB	2:D:2195:TRP:CD1	2.81	0.63
1:C:1091:ASN:HB3	1:C:1097:LYS:HE3	1.79	0.63
1:C:1316:PHE:HD2	1:C:1317:PRO:HD3	1.64	0.63
1:C:433:ARG:O	1:C:436:VAL:HG12	1.98	0.63
1:A:1491:GLN:HE22	1:A:1495:LYS:HE2	1.62	0.63
1:C:151:GLN:HE21	1:C:283:ASN:HB3	1.63	0.63
2:B:1770:LEU:HD12	2:B:1770:LEU:N	2.12	0.63
2:B:1849:GLY:O	2:B:1852:THR:HG22	1.97	0.63
2:D:2446:ILE:HG21	2:D:2452:PHE:CE1	2.32	0.63
2:D:3104:ILE:HG13	2:D:3105:HIS:N	2.12	0.63
1:C:748:LYS:HB2	1:C:754:GLN:HE21	1.63	0.63
2:B:2670:HIS:HD1	2:B:2704:THR:CG2	2.09	0.63
1:C:1379:ILE:HD11	1:C:1381:HIS:CE1	2.33	0.63
1:C:1539:MET:HE3	1:C:1539:MET:HA	1.81	0.63
2:D:1793:ILE:HD13	2:D:1867:TYR:CD1	2.33	0.63
1:A:446:PHE:HB2	1:A:505:ARG:CD	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:267:LEU:O	1:C:267:LEU:HD13	1.98	0.63
2:D:3362:GLU:HG3	2:D:3376:MET:HG2	1.81	0.63
2:B:2971:PRO:HB3	2:B:3071:TYR:CE2	2.33	0.63
1:A:1158:LYS:HD3	1:A:1173:GLU:OE2	1.98	0.63
2:D:1991:GLN:CG	2:D:2001:ASP:HA	2.07	0.63
2:B:2714:LEU:HD23	2:B:2778:ILE:CG2	2.16	0.63
2:B:2777:THR:CG2	2:B:2780:LYS:H	2.11	0.63
1:A:1404:VAL:HA	1:A:1423:LEU:CD2	2.29	0.63
2:B:2178:PRO:CB	2:B:2226:HIS:HB2	2.29	0.63
1:A:257:LEU:HD11	1:A:261:HIS:HE1	1.64	0.63
1:C:804:GLU:HG2	1:C:806:ASP:H	1.64	0.63
2:D:2278:LEU:HD22	2:D:2421:GLY:H	1.63	0.63
2:B:2206:ARG:NH1	2:B:2217:VAL:HA	2.14	0.63
1:C:1293:HIS:CE1	1:C:1451:PHE:CE2	2.87	0.63
1:C:424:VAL:O	1:C:509:ILE:HG23	1.98	0.63
1:A:560:ARG:CG	1:A:609:THR:O	2.47	0.63
1:C:1158:LYS:HD3	1:C:1173:GLU:OE2	1.98	0.63
2:B:3264:THR:H	2:B:3267:HIS:CE1	2.17	0.63
2:B:1990:PHE:CD2	2:B:2002:ALA:HB3	2.34	0.63
1:A:582:ILE:CG2	1:A:586:PHE:HE1	2.12	0.63
1:C:578:LEU:HD13	1:C:581:GLN:HE22	1.64	0.63
1:C:1618:LEU:CD2	1:C:1648:PHE:HB2	2.28	0.63
1:A:853:LEU:HD23	1:A:921:TYR:CG	2.33	0.63
1:C:408:GLY:O	1:C:653:PRO:CG	2.47	0.63
2:B:2345:PRO:HA	2:B:2348:VAL:CG1	2.26	0.63
2:D:3076:ASN:CB	2:D:3236:LEU:HD13	2.28	0.63
1:C:1141:ARG:HD2	1:C:1143:PHE:HZ	1.62	0.63
2:D:2568:HIS:HD2	2:D:2708:TRP:HH2	1.46	0.63
1:A:1205:HIS:CD2	1:A:1207:GLU:HG2	2.34	0.63
2:B:1696:ASP:O	2:B:1701:ILE:HD11	1.98	0.63
1:C:1239:ARG:HG3	1:C:1241:GLY:O	1.98	0.63
1:C:1274:ARG:HG3	1:C:1275:ALA:N	2.14	0.63
1:C:615:PHE:HD1	1:C:622:TYR:CE1	2.17	0.63
1:C:549:ILE:HD13	1:C:622:TYR:CD1	2.34	0.63
1:A:123:TRP:CH2	1:A:208:LEU:HD21	2.33	0.63
1:A:267:LEU:HD13	1:A:267:LEU:O	1.98	0.63
1:A:549:ILE:HD12	1:A:552:GLU:OE2	1.99	0.63
1:A:697:VAL:HG23	1:A:698:LEU:N	2.14	0.63
2:D:3264:THR:H	2:D:3267:HIS:CE1	2.17	0.63
2:B:3308:ILE:CA	2:B:3329:MET:HB2	2.23	0.63
1:C:895:VAL:HG12	1:C:904:TRP:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:582:ILE:CG2	1:C:586:PHE:HE1	2.12	0.63
2:D:2627:THR:HG23	2:D:2681:THR:HG23	1.78	0.63
1:A:1100:SER:O	1:A:1102:PRO:HD3	1.99	0.63
1:A:412:PRO:HG3	1:A:654:TYR:CB	2.26	0.63
2:B:2797:ALA:HB1	2:B:2842:LEU:HB3	1.80	0.63
2:B:2503:GLY:HA3	2:B:2588:VAL:CB	2.29	0.63
2:B:2893:LYS:HD3	2:B:2896:GLU:OE1	1.99	0.63
2:D:2760:GLU:HB3	2:D:2763:ARG:CD	2.28	0.63
2:B:3036:ASN:HB3	2:B:3081:LEU:HD12	1.80	0.63
2:D:2300:VAL:HG13	2:D:2368:LEU:HD21	1.81	0.62
2:B:1793:ILE:HD13	2:B:1867:TYR:CD1	2.33	0.62
1:A:164:GLU:HA	1:A:294:LEU:HD13	1.81	0.62
1:A:197:LEU:HD23	1:A:344:LEU:CD1	2.29	0.62
1:A:241:LEU:HD11	1:A:265:ALA:HA	1.77	0.62
2:B:3054:LEU:HB2	2:B:3074:LEU:CD2	2.15	0.62
2:D:1759:TRP:CD1	2:D:1850:VAL:HG12	2.34	0.62
2:D:3187:LEU:HD12	2:D:3190:VAL:HG11	1.80	0.62
2:B:1973:VAL:HG23	2:B:2026:ILE:CG1	2.19	0.62
1:A:481:VAL:CG2	1:A:487:PHE:HA	2.25	0.62
1:A:311:GLY:HA3	1:A:352:TRP:CH2	2.34	0.62
2:D:2959:LYS:O	2:D:2960:TYR:HB2	1.99	0.62
2:D:1987:THR:HG22	2:D:2048:THR:CG2	2.29	0.62
2:D:2140:ILE:HG23	2:D:2146:PHE:CA	2.28	0.62
2:D:2173:TRP:CZ2	2:D:2179:ILE:HD12	2.33	0.62
2:B:2099:LEU:HB3	2:B:2204:PHE:CZ	2.32	0.62
2:B:1914:LYS:CG	2:B:1918:PHE:HE1	2.13	0.62
1:C:1262:ILE:HG22	1:C:1341:PRO:HB2	1.80	0.62
1:C:1325:VAL:CG1	1:C:1515:TYR:CE1	2.79	0.62
1:A:156:MET:O	1:A:159:VAL:HG22	1.99	0.62
1:A:446:PHE:CE2	1:A:455:TYR:HD1	2.17	0.62
2:B:3001:GLN:HA	2:B:3180:HIS:CE1	2.34	0.62
2:D:1757:TRP:HZ3	2:D:1873:LEU:HD21	1.62	0.62
2:B:2772:ARG:HG2	2:B:2777:THR:HA	1.79	0.62
1:C:412:PRO:HG3	1:C:654:TYR:CB	2.26	0.62
1:C:311:GLY:HA3	1:C:352:TRP:CH2	2.34	0.62
2:B:2318:ALA:O	2:B:2322:MET:HG2	1.99	0.62
2:B:2822:PHE:HE2	2:B:2825:THR:HG23	1.62	0.62
1:C:1401:TYR:CE2	1:C:1405:LEU:HD22	2.33	0.62
1:C:257:LEU:HD11	1:C:261:HIS:HE1	1.63	0.62
2:D:2209:VAL:HG23	2:D:2283:TYR:CE2	2.33	0.62
2:D:2388:PHE:HB2	2:D:2433:PHE:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2103:LEU:HD23	2:B:2106:LEU:HD12	1.80	0.62
2:B:2321:LEU:HD22	2:B:2321:LEU:N	2.13	0.62
2:D:1714:PRO:CB	2:D:1922:TYR:CZ	2.81	0.62
1:C:20:GLN:HA	1:C:122:TYR:CZ	2.32	0.62
1:C:19:LEU:HB2	1:C:85:ARG:CZ	2.28	0.62
1:C:241:LEU:HD11	1:C:265:ALA:N	2.13	0.62
2:D:2093:GLU:HA	2:D:2096:ILE:HG22	1.81	0.62
2:D:2461:LYS:HG3	2:D:2461:LYS:O	1.98	0.62
1:A:895:VAL:HG12	1:A:904:TRP:HB3	1.80	0.62
2:D:2714:LEU:HD23	2:D:2778:ILE:CG2	2.16	0.62
1:A:407:LYS:HA	1:A:653:PRO:HD2	1.81	0.62
1:C:407:LYS:HA	1:C:653:PRO:HD2	1.81	0.62
2:B:1955:TRP:HB2	2:B:1960:ILE:HD11	1.81	0.62
1:C:1484:GLN:HE21	2:D:2065:ILE:HD13	1.60	0.62
1:A:1013:ILE:HG12	1:A:1191:PHE:CE1	2.33	0.62
2:B:2761:TYR:O	2:B:2764:PHE:HB2	1.98	0.62
1:C:170:LYS:O	1:C:173:ILE:HG12	1.98	0.62
1:A:493:LEU:HD13	1:A:670:PHE:CD2	2.34	0.62
1:C:1205:HIS:CD2	1:C:1207:GLU:HG2	2.34	0.62
2:B:1683:VAL:HG23	2:B:1787:PRO:CD	2.29	0.62
2:B:2350:LYS:HG3	2:B:2352:GLU:OE1	1.98	0.62
1:A:315:SER:O	1:A:386:VAL:HG23	2.00	0.62
1:A:596:VAL:HG22	1:A:773:PHE:CD1	2.34	0.62
2:D:2040:ILE:O	2:D:2040:ILE:HG13	1.98	0.62
2:D:2100:LYS:CE	2:D:2203:PRO:HD3	2.30	0.62
2:D:2103:LEU:CD2	2:D:2106:LEU:HD12	2.30	0.62
2:D:2124:LEU:HD12	2:D:2212:HIS:CE1	2.35	0.62
2:D:2321:LEU:N	2:D:2321:LEU:HD22	2.13	0.62
2:B:1722:CYS:SG	2:B:1915:PRO:HD3	2.40	0.62
1:C:697:VAL:HG23	1:C:698:LEU:N	2.14	0.62
1:A:164:GLU:CA	1:A:294:LEU:HD13	2.29	0.62
1:A:1262:ILE:HG22	1:A:1341:PRO:HB2	1.80	0.62
1:A:1293:HIS:CE1	1:A:1451:PHE:CE2	2.87	0.62
1:C:156:MET:O	1:C:159:VAL:HG22	1.99	0.62
1:C:903:HIS:HD2	1:C:1053:TRP:CH2	2.17	0.62
1:C:582:ILE:HG22	1:C:586:PHE:CE1	2.33	0.62
2:B:2794:THR:HG21	2:B:2851:LEU:HD22	1.81	0.62
1:C:930:TRP:CZ2	1:C:991:ILE:HD13	2.34	0.62
2:D:2665:GLN:NE2	2:D:2844:ARG:H	1.93	0.62
2:B:2568:HIS:HD2	2:B:2708:TRP:HH2	1.45	0.62
1:A:891:PHE:HB2	1:A:1183:MET:HE2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1240:ILE:O	1:A:1240:ILE:HG13	1.98	0.62
2:B:2168:VAL:HG22	2:B:2169:ALA:N	2.14	0.62
2:B:2236:LEU:O	2:B:2236:LEU:HD13	2.00	0.62
2:B:2157:PHE:HB2	2:B:2288:PHE:HE2	1.63	0.62
2:B:2101:TYR:HB3	2:D:1693:HIS:CD2	2.35	0.62
2:B:2197:ASN:OD1	2:D:1921:PRO:HG2	1.99	0.62
1:C:549:ILE:HD12	1:C:552:GLU:OE2	1.99	0.62
1:A:151:GLN:HE21	1:A:283:ASN:HB3	1.63	0.62
1:A:1662:THR:C	2:B:1893:ARG:HB2	2.20	0.62
2:B:3326:ILE:O	2:B:3367:TYR:HA	1.99	0.62
2:D:2714:LEU:HD11	2:D:2781:LEU:HD23	1.82	0.62
1:C:1606:ASP:OD1	1:C:1608:THR:HG23	1.98	0.62
2:B:3274:LEU:CD1	2:B:3276:LYS:HE3	2.29	0.62
1:C:1659:ASP:OD2	2:D:1939:ASP:HB2	1.99	0.62
1:C:1379:ILE:HD12	1:C:1447:PHE:CE2	2.35	0.62
1:C:1539:MET:HE2	1:C:1539:MET:O	1.97	0.62
2:D:2795:PHE:CD1	2:D:2846:ASP:HA	2.35	0.62
2:D:2091:LEU:HD22	2:D:2095:ASP:OD1	1.99	0.62
2:D:2103:LEU:HD23	2:D:2106:LEU:HD12	1.80	0.62
2:D:2209:VAL:HG21	2:D:2212:HIS:ND1	2.14	0.62
2:D:2224:LEU:HD13	2:D:2266:LEU:HD21	1.80	0.62
2:B:2244:LEU:HD11	2:B:2304:LEU:CD2	2.27	0.62
2:D:1722:CYS:SG	2:D:1915:PRO:HD3	2.40	0.62
1:A:724:GLN:NE2	1:A:828:LYS:CG	2.63	0.62
1:C:446:PHE:CE2	1:C:455:TYR:HD1	2.17	0.62
1:A:1365:ARG:HG3	1:A:1366:GLN:OE1	1.96	0.62
2:B:1759:TRP:CD1	2:B:1850:VAL:HG12	2.34	0.62
2:D:1735:ARG:HH12	2:D:1889:GLN:HE22	1.45	0.62
2:B:3370:GLU:HB3	2:B:3374:TYR:OH	2.00	0.62
2:D:1990:PHE:CD2	2:D:2002:ALA:HB3	2.34	0.62
1:A:1078:ARG:HB3	2:B:2457:PRO:CD	2.18	0.62
1:A:748:LYS:HD3	1:A:754:GLN:HE21	1.65	0.62
1:A:903:HIS:HD2	1:A:1053:TRP:CH2	2.17	0.62
2:D:3216:LYS:HE2	2:D:3229:TYR:HD2	1.59	0.62
2:D:3322:ARG:CG	2:D:3371:SER:HB3	2.30	0.62
2:D:2178:PRO:CB	2:D:2226:HIS:HB2	2.29	0.62
2:B:3200:VAL:O	2:B:3254:ILE:HD13	1.98	0.62
1:A:1401:TYR:CE2	1:A:1405:LEU:HD22	2.33	0.62
1:A:717:LYS:NZ	1:A:831:LYS:HE3	2.15	0.62
2:B:2795:PHE:CD1	2:B:2846:ASP:HA	2.35	0.62
2:D:2236:LEU:HD13	2:D:2236:LEU:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1467:ASP:CB	1:A:1470:ARG:NH1	2.63	0.62
1:A:452:VAL:CG1	1:A:1365:ARG:HD2	2.30	0.62
1:A:452:VAL:HG12	1:A:1365:ARG:CG	2.30	0.62
1:A:433:ARG:O	1:A:436:VAL:HG12	1.98	0.62
1:A:698:LEU:HD12	1:A:700:TYR:HD1	1.61	0.62
1:A:1614:ASN:OD1	1:A:1616:VAL:HG22	2.00	0.62
1:C:1158:LYS:HA	1:C:1173:GLU:HG2	1.82	0.62
2:D:1874:PHE:CZ	2:D:1878:HIS:NE2	2.68	0.62
2:D:3115:ILE:O	2:D:3119:LEU:HB2	2.00	0.62
2:B:1735:ARG:HH12	2:B:1889:GLN:HE22	1.45	0.62
2:B:1991:GLN:HG2	2:B:2001:ASP:CA	2.07	0.62
1:C:322:VAL:HG23	1:C:379:VAL:HG12	1.82	0.62
1:C:1303:GLY:O	1:C:1305:PRO:HD3	1.99	0.62
2:D:2318:ALA:O	2:D:2322:MET:HG2	1.99	0.62
1:A:1303:GLY:O	1:A:1305:PRO:HD3	1.99	0.62
2:D:3274:LEU:CD1	2:D:3276:LYS:HE3	2.29	0.62
1:C:620:LEU:HD23	1:C:620:LEU:O	2.00	0.62
2:B:2508:ILE:CD1	2:B:2699:LEU:HD13	2.30	0.62
1:A:312:PHE:CD1	1:A:351:LYS:HD3	2.35	0.62
2:B:2959:LYS:O	2:B:2960:TYR:HB2	1.99	0.62
1:C:891:PHE:HB3	1:C:1183:MET:CG	2.30	0.62
2:D:2168:VAL:HG22	2:D:2169:ALA:N	2.14	0.62
1:C:724:GLN:NE2	1:C:828:LYS:CG	2.63	0.62
2:B:2300:VAL:HG13	2:B:2368:LEU:HD21	1.81	0.62
2:B:1695:SER:HA	2:D:2195:TRP:HD1	1.65	0.62
2:B:2195:TRP:HB3	2:D:1921:PRO:C	2.20	0.62
2:B:2538:ILE:HG13	2:B:2539:ALA:N	2.15	0.62
1:C:468:CYS:CB	1:C:479:CYS:HA	2.29	0.62
1:A:234:MET:HB2	1:A:268:PHE:CZ	2.34	0.62
1:A:1274:ARG:HG3	1:A:1275:ALA:N	2.14	0.62
1:A:499:GLU:HA	1:A:502:LEU:HD13	1.81	0.62
1:A:615:PHE:HD1	1:A:622:TYR:CE1	2.17	0.62
1:A:1161:ILE:CD1	1:A:1198:LYS:CE	2.57	0.62
2:D:1736:LEU:O	2:D:1739:VAL:HG22	1.99	0.62
2:B:2500:ALA:CB	2:B:3131:SER:CA	2.72	0.62
1:C:1141:ARG:HD2	1:C:1143:PHE:CZ	2.35	0.62
2:D:2508:ILE:CD1	2:D:2699:LEU:HD13	2.30	0.62
2:D:3036:ASN:HB3	2:D:3081:LEU:HD12	1.80	0.62
1:C:596:VAL:HG22	1:C:773:PHE:CD1	2.34	0.62
1:A:78:ARG:HA	1:A:81:GLN:OE1	1.99	0.62
2:B:2091:LEU:HD22	2:B:2095:ASP:OD1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:560:ARG:CG	1:C:609:THR:O	2.47	0.62
1:A:1515:TYR:CE2	1:A:1521:TYR:N	2.67	0.62
1:A:469:PRO:O	1:A:470:ARG:HG2	2.00	0.62
1:C:853:LEU:HD23	1:C:921:TYR:CD1	2.35	0.62
1:C:1075:THR:O	2:D:2456:GLU:HG2	1.99	0.62
2:B:3002:THR:HG21	2:B:3041:GLN:OE1	2.00	0.62
1:A:1158:LYS:HA	1:A:1173:GLU:HG2	1.82	0.62
2:D:3056:LEU:CD1	2:D:3191:LEU:HD23	2.30	0.62
2:D:2654:LEU:HD13	2:D:2781:LEU:HD21	1.80	0.62
1:C:1560:THR:HG22	1:C:1561:SER:N	2.14	0.62
2:D:1955:TRP:HB2	2:D:1960:ILE:HD11	1.81	0.62
1:A:891:PHE:HB3	1:A:1183:MET:CG	2.30	0.62
2:B:2862:PHE:HE1	2:B:2864:PHE:CZ	2.18	0.62
2:D:1683:VAL:HG23	2:D:1787:PRO:CD	2.29	0.62
2:B:2653:ALA:O	2:B:2662:PHE:HD1	1.83	0.62
2:B:2112:ALA:O	2:B:2117:ALA:HB3	1.99	0.62
2:D:2653:ALA:O	2:D:2662:PHE:HD1	1.83	0.62
2:B:2103:LEU:CD2	2:B:2106:LEU:HD12	2.30	0.62
2:B:2124:LEU:HD12	2:B:2212:HIS:CE1	2.35	0.62
2:B:2209:VAL:HG21	2:B:2212:HIS:ND1	2.14	0.62
2:B:2305:GLN:OE1	2:B:2308:ARG:HD2	1.98	0.62
2:D:2538:ILE:HG13	2:D:2539:ALA:N	2.15	0.62
1:C:1467:ASP:CB	1:C:1470:ARG:NH1	2.63	0.62
1:C:452:VAL:HG12	1:C:1365:ARG:CG	2.30	0.62
1:A:431:LEU:HD11	1:A:512:PRO:HG3	1.82	0.62
2:B:2461:LYS:HG3	2:B:2461:LYS:O	1.98	0.62
2:B:1736:LEU:O	2:B:1739:VAL:HG22	1.99	0.62
2:B:2622:LEU:HD12	2:B:2624:VAL:HB	1.82	0.62
1:A:322:VAL:HG23	1:A:379:VAL:HG12	1.82	0.62
1:A:1192:LYS:CE	1:A:1235:ILE:HD12	2.29	0.62
1:A:1141:ARG:HD2	1:A:1143:PHE:CZ	2.35	0.62
2:B:3204:PHE:HB3	2:B:3206:LEU:HD21	1.82	0.62
2:D:1955:TRP:HB2	2:D:1960:ILE:CD1	2.30	0.62
1:A:620:LEU:O	1:A:620:LEU:HD23	2.00	0.62
1:C:12:THR:HG22	1:C:13:GLN:N	2.15	0.62
2:B:2511:LEU:HD22	2:B:2516:VAL:HG12	1.82	0.62
2:D:1910:LYS:HE2	2:D:1933:LYS:HE2	1.82	0.62
2:D:2797:ALA:HB1	2:D:2842:LEU:HB3	1.80	0.62
2:B:1695:SER:CA	2:D:2195:TRP:CD1	2.82	0.61
1:A:468:CYS:CB	1:A:479:CYS:HA	2.28	0.61
2:D:3370:GLU:HB3	2:D:3374:TYR:OH	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1100:SER:O	1:C:1102:PRO:HD3	1.99	0.61
1:C:462:HIS:CE1	1:C:629:PHE:CE1	2.88	0.61
2:D:3120:GLN:O	2:D:3123:ARG:HB2	2.00	0.61
2:B:2714:LEU:HD11	2:B:2781:LEU:HD23	1.82	0.61
1:C:1618:LEU:HD21	2:D:1906:VAL:HG11	1.82	0.61
2:D:2622:LEU:HD12	2:D:2624:VAL:HB	1.82	0.61
1:C:407:LYS:HE3	1:C:652:LYS:CD	2.30	0.61
1:C:989:THR:HG22	1:C:991:ILE:HG22	1.81	0.61
1:C:310:LYS:NZ	1:C:351:LYS:HE2	2.16	0.61
1:A:1379:ILE:HD12	1:A:1447:PHE:CE2	2.35	0.61
2:D:2862:PHE:HE1	2:D:2864:PHE:CZ	2.18	0.61
2:B:1910:LYS:HE2	2:B:1933:LYS:HE2	1.82	0.61
1:A:1585:MET:C	1:A:1585:MET:SD	2.78	0.61
2:D:2246:GLN:OE1	2:D:2251:ASP:HB3	2.01	0.61
1:A:872:LEU:HA	1:A:875:PHE:CE1	2.35	0.61
1:C:164:GLU:CA	1:C:294:LEU:HD13	2.29	0.61
2:B:2493:ASP:CG	2:B:3124:VAL:HG21	2.20	0.61
2:B:3056:LEU:CD1	2:B:3191:LEU:HD23	2.30	0.61
2:B:1850:VAL:HG21	2:B:1877:HIS:CD2	2.35	0.61
1:A:1171:ALA:HA	1:A:1198:LYS:HD3	1.82	0.61
1:C:1226:LYS:HA	1:C:1226:LYS:CE	2.21	0.61
2:B:3362:GLU:HG3	2:B:3376:MET:HG2	1.81	0.61
2:B:1693:HIS:HD2	2:D:2101:TYR:C	2.03	0.61
2:D:2794:THR:HG21	2:D:2851:LEU:HD22	1.81	0.61
2:B:3078:VAL:O	2:B:3082:ILE:HD13	2.00	0.61
1:C:748:LYS:HD3	1:C:754:GLN:HE21	1.65	0.61
1:A:408:GLY:O	1:A:653:PRO:CG	2.47	0.61
2:B:1955:TRP:HB2	2:B:1960:ILE:CD1	2.30	0.61
2:D:3204:PHE:HB3	2:D:3206:LEU:HD21	1.82	0.61
1:C:749:THR:HG22	1:C:753:VAL:N	2.14	0.61
1:C:729:TYR:HB2	1:C:821:ILE:CD1	2.30	0.61
1:A:1380:THR:HG23	1:A:1381:HIS:N	2.15	0.61
1:A:219:ILE:HG22	1:A:223:LEU:CD2	2.30	0.61
2:B:2792:ASP:HB3	2:B:2888:HIS:HE1	1.64	0.61
1:C:78:ARG:HA	1:C:81:GLN:OE1	1.99	0.61
2:B:2122:HIS:HB3	2:B:2282:SER:HB3	1.81	0.61
2:B:2246:GLN:OE1	2:B:2251:ASP:HB3	2.01	0.61
2:D:1914:LYS:HG2	2:D:1918:PHE:CE1	2.35	0.61
2:D:1914:LYS:CG	2:D:1918:PHE:HE1	2.13	0.61
1:C:1254:SER:HB3	1:C:1521:TYR:C	2.21	0.61
1:A:1244:GLU:HG3	1:A:1473:LYS:C	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1460:ARG:O	1:A:1464:ILE:HG12	2.01	0.61
1:A:1567:PHE:CD2	1:A:1580:SER:HB3	2.35	0.61
1:A:1566:VAL:HG21	1:A:1626:ILE:HG22	1.82	0.61
2:B:3115:ILE:O	2:B:3119:LEU:HB2	1.99	0.61
2:B:3291:ILE:HD11	2:B:3314:LEU:CD1	2.28	0.61
2:B:3291:ILE:HG23	2:B:3307:PRO:HA	1.83	0.61
2:B:2404:CYS:HA	2:B:2410:CYS:HA	1.82	0.61
2:D:3078:VAL:HG12	2:D:3082:ILE:HD13	1.82	0.61
2:B:2228:THR:HG23	2:B:2231:GLY:CA	2.31	0.61
1:A:1560:THR:HG22	1:A:1561:SER:N	2.14	0.61
2:D:1668:ARG:HD2	2:D:1754:LEU:O	2.00	0.61
1:C:493:LEU:HD13	1:C:670:PHE:CD2	2.34	0.61
1:C:219:ILE:HG22	1:C:223:LEU:CD2	2.30	0.61
2:B:1689:MET:HE3	2:B:1698:PHE:HD1	1.65	0.61
1:A:804:GLU:HG2	1:A:806:ASP:H	1.64	0.61
2:B:2741:ASP:HB3	2:B:2743:ILE:HG22	1.81	0.61
2:D:2307:LYS:HE2	2:D:2369:HIS:ND1	2.16	0.61
2:D:2254:VAL:CG1	2:D:2433:PHE:HD1	2.03	0.61
2:B:2100:LYS:CE	2:B:2203:PRO:HD3	2.30	0.61
2:B:2106:LEU:HD23	2:B:2164:HIS:ND1	2.15	0.61
2:B:2149:TRP:HD1	2:B:2326:MET:HG3	1.65	0.61
2:B:2388:PHE:O	2:B:2432:LEU:HD12	2.00	0.61
1:C:1244:GLU:HG3	1:C:1473:LYS:C	2.19	0.61
1:A:468:CYS:HB2	1:A:479:CYS:HA	1.82	0.61
2:B:1862:ILE:HD11	2:B:1871:ASP:HB3	1.81	0.61
2:B:2093:GLU:HA	2:B:2096:ILE:HG22	1.81	0.61
1:C:605:ILE:HG13	1:C:632:HIS:CE1	2.35	0.61
1:A:647:GLN:OE1	1:A:652:LYS:HD3	2.01	0.61
1:A:647:GLN:HE22	1:A:650:ARG:NH2	1.98	0.61
1:A:720:HIS:CD2	1:A:829:PHE:HB2	2.36	0.61
1:C:1006:ASP:O	1:C:1009:ILE:HG22	2.00	0.61
2:D:1798:GLU:HG3	2:D:1800:VAL:HG12	1.82	0.61
1:A:964:ILE:HG12	1:A:1038:PHE:CE1	2.35	0.61
2:B:1668:ARG:HD2	2:B:1754:LEU:O	2.00	0.61
2:B:1778:PRO:HB2	2:D:1817:LYS:CD	2.29	0.61
2:B:1987:THR:HG22	2:B:2048:THR:CG2	2.29	0.61
2:B:2254:VAL:CG1	2:B:2433:PHE:HD1	2.03	0.61
2:B:2577:MET:HE2	2:B:2698:TRP:CZ2	2.35	0.61
2:D:2538:ILE:HD12	2:D:2577:MET:CE	1.81	0.61
2:D:2538:ILE:CD1	2:D:2577:MET:HE1	1.81	0.61
1:C:452:VAL:CG1	1:C:1365:ARG:HD2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1078:ARG:CG	2:D:2457:PRO:HD3	2.30	0.61
1:A:1566:VAL:HG22	1:A:1626:ILE:HG22	1.80	0.61
1:A:1171:ALA:HA	1:A:1198:LYS:CE	2.30	0.61
2:D:2404:CYS:HA	2:D:2410:CYS:HA	1.82	0.61
2:D:3078:VAL:O	2:D:3082:ILE:HD13	2.00	0.61
1:C:1566:VAL:HG21	1:C:1626:ILE:HG22	1.82	0.61
1:C:1567:PHE:CD2	1:C:1580:SER:HB3	2.35	0.61
1:C:1614:ASN:OD1	1:C:1616:VAL:HG22	2.00	0.61
1:C:1145:GLY:HA3	1:C:1190:VAL:HG11	1.80	0.61
2:D:3223:THR:HG23	2:D:3224:ASP:N	2.12	0.61
1:C:312:PHE:CD1	1:C:351:LYS:HD3	2.35	0.61
2:D:1718:LYS:HD3	2:D:1720:PHE:CE2	2.36	0.61
1:C:469:PRO:O	1:C:470:ARG:HG2	2.00	0.61
1:C:579:PHE:CD2	1:C:707:PHE:HE2	2.19	0.61
1:C:164:GLU:HA	1:C:294:LEU:HD13	1.81	0.61
1:C:85:ARG:HH12	1:C:86:THR:HG22	1.63	0.61
1:A:484:MET:CB	1:A:486:ILE:HG22	2.30	0.61
1:A:605:ILE:HG13	1:A:632:HIS:CE1	2.35	0.61
1:C:810:LEU:CD1	1:C:814:LEU:HD13	2.30	0.61
1:C:720:HIS:CD2	1:C:829:PHE:HB2	2.36	0.61
1:C:647:GLN:HE22	1:C:650:ARG:NH2	1.98	0.61
1:C:647:GLN:OE1	1:C:652:LYS:HD3	2.01	0.61
2:B:3255:THR:O	2:B:3258:VAL:HG22	2.00	0.61
1:C:1585:MET:SD	1:C:1585:MET:C	2.78	0.61
1:A:872:LEU:O	1:A:875:PHE:HD1	1.83	0.61
1:C:1460:ARG:O	1:C:1464:ILE:HG12	2.01	0.61
2:B:3120:GLN:O	2:B:3123:ARG:HB2	2.01	0.61
2:B:2494:HIS:CD2	2:B:3124:VAL:HG13	2.34	0.61
2:D:1767:PRO:O	2:D:1771:THR:HG22	2.00	0.61
1:C:1161:ILE:CD1	1:C:1198:LYS:CE	2.57	0.61
1:C:1228:LEU:HD23	1:C:1229:PHE:N	2.13	0.61
2:B:2384:VAL:CG1	2:B:2438:THR:HA	2.31	0.61
2:B:2026:ILE:HB	2:B:2030:LEU:HD11	1.82	0.61
2:D:3144:PHE:C	2:D:3149:VAL:HG11	2.21	0.61
1:C:1192:LYS:CE	1:C:1235:ILE:HD12	2.29	0.61
1:A:1006:ASP:O	1:A:1009:ILE:HG22	2.00	0.61
1:C:964:ILE:HG12	1:C:1038:PHE:CE1	2.35	0.61
2:B:2099:LEU:CB	2:B:2204:PHE:HZ	2.13	0.61
2:B:1718:LYS:HD3	2:B:1720:PHE:CE2	2.36	0.61
1:C:1239:ARG:HH12	1:C:1242:HIS:HE1	1.48	0.61
1:C:1259:ARG:HH22	1:C:1324:VAL:HG11	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1293:HIS:HB3	1:C:1446:ALA:HB2	1.83	0.61
1:C:552:GLU:CD	1:C:554:ASN:HB2	2.21	0.61
1:A:5:ARG:HH12	1:A:73:VAL:HG21	1.65	0.61
2:B:1767:PRO:O	2:B:1771:THR:HG22	2.00	0.61
1:C:1171:ALA:HA	1:C:1198:LYS:CE	2.30	0.61
2:D:1874:PHE:CD2	2:D:1878:HIS:CE1	2.82	0.61
1:A:720:HIS:HD2	1:A:829:PHE:HB2	1.65	0.61
2:B:2500:ALA:HB1	2:B:3131:SER:OG	2.00	0.61
2:D:3275:LYS:HE3	2:D:3282:LEU:HD11	1.82	0.61
1:A:316:ALA:HB1	1:A:383:LEU:HD11	1.83	0.61
1:A:729:TYR:HB2	1:A:821:ILE:CD1	2.30	0.61
2:D:3142:HIS:CD2	2:D:3145:ASN:HD21	2.16	0.61
2:D:2964:VAL:HG11	2:D:2969:ILE:CG1	2.30	0.61
2:B:2242:LEU:O	2:B:2242:LEU:HD13	2.00	0.61
2:B:2195:TRP:HE3	2:D:1922:TYR:CZ	2.09	0.61
2:B:2195:TRP:CB	2:D:1922:TYR:N	2.64	0.61
1:C:273:LEU:HD12	1:C:273:LEU:N	2.16	0.61
1:C:60:HIS:HA	1:C:65:PHE:HD2	1.66	0.61
2:D:3291:ILE:HG23	2:D:3307:PRO:HA	1.83	0.61
2:D:3326:ILE:O	2:D:3367:TYR:HA	1.99	0.61
2:D:1854:VAL:HG23	2:D:1862:ILE:CB	2.31	0.61
2:B:3391:ILE:HD12	2:B:3391:ILE:N	2.16	0.61
2:D:3001:GLN:HA	2:D:3180:HIS:CE1	2.34	0.61
1:C:484:MET:CB	1:C:486:ILE:HG22	2.30	0.61
1:C:582:ILE:CG1	1:C:601:THR:HG21	2.31	0.61
2:B:3274:LEU:HD11	2:B:3276:LYS:HE3	1.83	0.61
1:A:853:LEU:HD23	1:A:921:TYR:CD1	2.35	0.61
2:D:2602:LEU:HD13	2:D:2628:ARG:NH1	2.16	0.61
2:D:3274:LEU:HD11	2:D:3276:LYS:HE3	1.83	0.61
1:C:928:TRP:HE3	1:C:1041:LEU:HD11	1.64	0.61
1:C:1436:LYS:HG3	1:C:1437:TYR:CD1	2.36	0.61
1:A:310:LYS:NZ	1:A:351:LYS:HE2	2.15	0.61
1:C:717:LYS:NZ	1:C:831:LYS:HE3	2.15	0.61
2:D:2122:HIS:HB3	2:D:2282:SER:HB3	1.81	0.61
2:B:2161:LEU:HB3	2:B:2166:SER:HB2	1.83	0.61
2:B:1695:SER:HB2	2:D:2195:TRP:CD1	2.35	0.61
2:D:1707:LEU:HD21	2:D:2012:LYS:CG	2.30	0.61
1:C:710:ILE:HD13	1:C:718:MET:SD	2.40	0.61
1:A:1249:GLN:HG3	1:A:1476:TYR:HD1	1.57	0.61
1:A:1464:ILE:HA	1:A:1467:ASP:OD1	2.01	0.61
1:A:710:ILE:HD13	1:A:718:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:84:ARG:HG2	1:C:84:ARG:O	2.01	0.61
2:D:3308:ILE:CA	2:D:3329:MET:HB2	2.23	0.61
1:C:1159:PHE:HB3	1:C:1214:TYR:HB3	1.82	0.61
1:C:743:VAL:HG22	1:C:802:ILE:HG12	1.83	0.61
2:B:3275:LYS:HE3	2:B:3282:LEU:HD11	1.82	0.61
2:B:2602:LEU:HD13	2:B:2628:ARG:NH1	2.16	0.61
2:D:2602:LEU:HD13	2:D:2628:ARG:HH11	1.66	0.61
1:A:1032:SER:HB3	1:A:1035:TYR:HD2	1.66	0.61
2:B:3322:ARG:CG	2:B:3371:SER:HB3	2.30	0.61
1:C:315:SER:O	1:C:386:VAL:HG23	2.00	0.61
2:D:2242:LEU:HD13	2:D:2242:LEU:O	2.00	0.61
1:A:359:LEU:HD22	1:A:359:LEU:N	2.15	0.61
2:B:2195:TRP:CD1	2:D:1695:SER:CA	2.84	0.60
2:D:1695:SER:HB3	2:D:1924:LEU:HD21	1.83	0.60
1:A:1083:PRO:O	1:A:1086:LEU:HD13	2.01	0.60
2:D:2688:LEU:HD13	2:D:2829:LEU:HD12	1.83	0.60
1:A:1293:HIS:HB3	1:A:1446:ALA:HB2	1.83	0.60
1:A:1254:SER:HB3	1:A:1521:TYR:C	2.20	0.60
1:A:552:GLU:CD	1:A:554:ASN:HB2	2.21	0.60
2:D:3066:ASP:OD1	2:D:3248:ARG:HD2	2.00	0.60
2:D:3391:ILE:HD12	2:D:3391:ILE:N	2.16	0.60
1:C:1142:PHE:C	1:C:1195:ILE:HG22	2.21	0.60
2:D:1932:SER:O	2:D:1934:PRO:HD3	2.01	0.60
2:B:3078:VAL:HG12	2:B:3082:ILE:HD13	1.82	0.60
1:A:903:HIS:ND1	1:A:1102:PRO:HB3	2.16	0.60
2:B:1974:PHE:CD2	2:B:2025:ASP:HA	2.36	0.60
2:D:2124:LEU:HD13	2:D:2125:PRO:HD3	1.80	0.60
2:D:2275:LEU:CD1	2:D:2284:ASP:HB3	2.27	0.60
2:B:1707:LEU:HD21	2:B:2012:LYS:CG	2.30	0.60
2:B:2688:LEU:HD13	2:B:2829:LEU:HD12	1.83	0.60
1:A:285:MET:HB2	1:A:290:LEU:CD2	2.31	0.60
1:A:1316:PHE:HD2	1:A:1317:PRO:HD3	1.64	0.60
2:B:1757:TRP:HZ3	2:B:1873:LEU:HD21	1.65	0.60
2:B:3340:LEU:CD2	2:B:3377:THR:HG22	2.32	0.60
2:B:3366:MET:HG2	2:B:3367:TYR:N	2.14	0.60
2:B:2148:HIS:CB	2:B:2345:PRO:HB3	2.31	0.60
1:A:931:THR:HG21	1:A:1121:PHE:HE1	1.67	0.60
1:C:316:ALA:HB1	1:C:383:LEU:HD11	1.83	0.60
1:C:385:SER:HB3	1:C:387:ASN:OD1	2.01	0.60
2:D:3219:ILE:CD1	2:D:3271:ARG:HD3	2.31	0.60
1:A:13:GLN:O	1:A:17:LEU:HD13	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2511:LEU:HD22	2:D:2516:VAL:HG12	1.82	0.60
2:B:1675:ASP:HB2	2:B:1678:GLN:HG3	1.83	0.60
2:D:2908:VAL:HG23	2:D:3173:LYS:O	2.02	0.60
2:B:2091:LEU:HD21	2:B:2171:PRO:HG3	1.84	0.60
2:B:2307:LYS:HE2	2:B:2369:HIS:ND1	2.16	0.60
2:D:1707:LEU:HA	2:D:1708:PRO:C	2.20	0.60
1:C:1464:ILE:HA	1:C:1467:ASP:OD1	2.02	0.60
1:C:1325:VAL:HG21	1:C:1519:PHE:HE1	1.66	0.60
1:A:1280:ILE:CD1	1:A:1330:ALA:HB1	2.31	0.60
1:A:576:THR:HG23	1:A:579:PHE:H	1.64	0.60
1:C:906:ARG:HH11	1:C:1108:TYR:HB3	1.67	0.60
2:D:1862:ILE:HD11	2:D:1871:ASP:HB3	1.81	0.60
1:C:1171:ALA:HA	1:C:1198:LYS:HD3	1.82	0.60
1:A:462:HIS:CE1	1:A:629:PHE:CE1	2.88	0.60
1:A:810:LEU:CD1	1:A:814:LEU:HD13	2.30	0.60
1:C:1567:PHE:CE2	1:C:1580:SER:HB3	2.36	0.60
1:A:1406:TYR:CA	1:A:1543:ARG:HH12	2.14	0.60
2:D:2228:THR:HG23	2:D:2231:GLY:CA	2.31	0.60
2:D:2799:LEU:C	2:D:2800:LEU:HD23	2.22	0.60
2:B:2799:LEU:C	2:B:2800:LEU:HD23	2.22	0.60
1:A:12:THR:HG22	1:A:13:GLN:N	2.15	0.60
2:B:3136:ILE:HD12	2:D:3345:TYR:OH	2.01	0.60
2:B:2964:VAL:HG11	2:B:2969:ILE:CG1	2.30	0.60
2:D:1974:PHE:CD2	2:D:2025:ASP:HA	2.36	0.60
2:D:2189:LYS:HG3	2:D:2190:GLU:HG3	1.82	0.60
2:B:2399:VAL:HG22	2:B:2416:ILE:O	2.02	0.60
1:C:872:LEU:HA	1:C:875:PHE:CE1	2.35	0.60
1:C:1464:ILE:CD1	1:C:1526:LEU:HB3	2.31	0.60
1:A:628:LEU:HA	1:A:631:PHE:HD2	1.64	0.60
1:A:698:LEU:HB3	1:A:700:TYR:CD1	2.37	0.60
2:D:3340:LEU:CD2	2:D:3377:THR:HG22	2.31	0.60
1:C:1079:GLU:HB2	2:D:2456:GLU:HG3	1.77	0.60
1:A:1142:PHE:C	1:A:1195:ILE:HG22	2.21	0.60
1:C:462:HIS:ND1	1:C:629:PHE:CZ	2.69	0.60
1:A:1052:ILE:O	1:A:1055:ILE:HG12	2.02	0.60
1:A:989:THR:HG22	1:A:991:ILE:HG22	1.81	0.60
1:C:931:THR:HA	1:C:991:ILE:CG2	2.28	0.60
2:D:2732:MET:HE3	2:D:2755:PRO:HB2	1.83	0.60
1:C:13:GLN:O	1:C:17:LEU:HD13	2.01	0.60
1:A:219:ILE:HG22	1:A:223:LEU:HD23	1.82	0.60
2:D:1687:GLU:HG3	2:D:1690:LYS:HZ1	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:359:LEU:HD22	1:C:359:LEU:N	2.15	0.60
2:B:2124:LEU:HD13	2:B:2125:PRO:HD3	1.80	0.60
2:B:2267:VAL:CG2	2:B:2275:LEU:HB2	2.32	0.60
2:B:1914:LYS:HG2	2:B:1918:PHE:CE1	2.35	0.60
1:A:273:LEU:HD12	1:A:273:LEU:N	2.16	0.60
1:C:198:GLU:HG2	1:C:199:TYR:CD2	2.36	0.60
1:C:1052:ILE:O	1:C:1055:ILE:HG12	2.02	0.60
2:D:1850:VAL:HG21	2:D:1877:HIS:CD2	2.35	0.60
1:A:1159:PHE:HB3	1:A:1214:TYR:HB3	1.82	0.60
2:D:2026:ILE:HB	2:D:2030:LEU:HD11	1.81	0.60
2:B:2943:ALA:HA	2:B:3103:MET:HE1	1.83	0.60
1:C:720:HIS:HD2	1:C:829:PHE:HB2	1.65	0.60
1:A:407:LYS:HE3	1:A:652:LYS:CD	2.30	0.60
1:A:128:ILE:HG23	1:A:130:PHE:CE1	2.37	0.60
1:A:972:THR:HG22	1:A:973:ARG:N	2.16	0.60
1:A:1228:LEU:HD23	1:A:1229:PHE:N	2.13	0.60
1:C:1380:THR:HG23	1:C:1381:HIS:N	2.15	0.60
2:B:2127:LYS:HE3	2:B:2333:ILE:HD11	1.83	0.60
2:B:2189:LYS:HG3	2:B:2190:GLU:HG3	1.82	0.60
2:B:1707:LEU:HA	2:B:1708:PRO:C	2.20	0.60
2:B:1747:LYS:HZ1	2:D:2094:ARG:CB	2.13	0.60
1:C:872:LEU:O	1:C:875:PHE:HD1	1.83	0.60
1:C:1280:ILE:CD1	1:C:1330:ALA:HB1	2.31	0.60
1:C:1327:VAL:HG11	1:C:1452:PHE:CD1	2.37	0.60
1:C:1442:LEU:HD23	1:C:1589:LEU:CD1	2.32	0.60
1:C:426:LYS:HB3	1:C:430:ASP:CG	2.22	0.60
1:C:698:LEU:HB3	1:C:700:TYR:CD1	2.37	0.60
1:A:1239:ARG:HH12	1:A:1242:HIS:HE1	1.48	0.60
1:A:443:PHE:HD1	1:A:543:PRO:HB3	1.66	0.60
1:A:579:PHE:CD2	1:A:707:PHE:HE2	2.19	0.60
1:C:5:ARG:HH12	1:C:73:VAL:HG21	1.65	0.60
2:D:1759:TRP:CD1	2:D:1811:LEU:HD11	2.37	0.60
2:D:1862:ILE:CD1	2:D:1871:ASP:HB3	2.31	0.60
2:B:1862:ILE:CD1	2:B:1871:ASP:HB3	2.31	0.60
2:D:2384:VAL:CG1	2:D:2438:THR:HA	2.31	0.60
1:C:996:LEU:HD13	1:C:996:LEU:O	2.01	0.60
2:D:3209:ILE:H	2:D:3209:ILE:CD1	2.11	0.60
2:B:2732:MET:HE3	2:B:2755:PRO:HB2	1.84	0.60
2:B:2732:MET:HE1	2:B:2759:PHE:HZ	1.65	0.60
1:A:385:SER:HB3	1:A:387:ASN:OD1	2.01	0.60
2:B:1927:HIS:O	2:B:1931:PHE:HD2	1.85	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1436:LYS:HG3	1:A:1437:TYR:CD1	2.36	0.60
2:B:2397:ALA:HB1	2:B:2465:THR:O	2.01	0.60
1:A:1139:GLN:HA	1:A:1139:GLN:OE1	2.02	0.60
1:C:1301:LEU:O	1:C:1301:LEU:HD23	2.02	0.60
1:C:1139:GLN:HA	1:C:1139:GLN:OE1	2.02	0.60
2:D:2149:TRP:HD1	2:D:2326:MET:HG3	1.65	0.60
1:A:198:GLU:HG2	1:A:199:TYR:CD2	2.36	0.60
1:A:85:ARG:HH12	1:A:86:THR:HG22	1.63	0.60
1:A:1259:ARG:NH2	1:A:1324:VAL:HG21	2.17	0.60
1:A:1325:VAL:HG21	1:A:1519:PHE:HE1	1.66	0.60
1:A:1515:TYR:CZ	1:A:1519:PHE:HB2	2.34	0.60
2:D:2185:LEU:N	2:D:2185:LEU:HD22	2.17	0.60
1:A:462:HIS:ND1	1:A:629:PHE:CZ	2.69	0.60
1:A:629:PHE:CD1	1:A:633:HIS:CE1	2.83	0.60
1:A:743:VAL:HG22	1:A:802:ILE:HG12	1.83	0.60
1:C:1646:ILE:CG2	2:D:1906:VAL:HG22	2.31	0.60
1:C:1392:ASP:HA	1:C:1394:LEU:HD23	1.84	0.60
1:C:1192:LYS:HZ1	1:C:1235:ILE:HD11	1.65	0.60
2:B:1798:GLU:HG3	2:B:1800:VAL:HG12	1.82	0.60
1:A:1010:GLN:HE22	1:A:1192:LYS:H	1.50	0.60
2:D:2148:HIS:CB	2:D:2345:PRO:HB3	2.31	0.60
1:C:749:THR:HG23	1:C:751:ASP:N	2.17	0.60
2:B:2877:PRO:HB2	2:B:2879:ASP:OD1	2.02	0.60
1:A:1301:LEU:HD23	1:A:1301:LEU:O	2.02	0.60
2:D:2388:PHE:O	2:D:2432:LEU:HD12	2.00	0.60
2:D:2432:LEU:HD21	2:D:2481:THR:CG2	2.32	0.60
1:C:1083:PRO:O	1:C:1086:LEU:HD13	2.01	0.60
1:C:1515:TYR:CE2	1:C:1521:TYR:N	2.69	0.60
1:C:628:LEU:HA	1:C:631:PHE:HD2	1.64	0.60
1:A:104:LEU:HB3	1:A:123:TRP:CE3	2.37	0.60
1:A:60:HIS:HA	1:A:65:PHE:HD2	1.66	0.60
1:A:74:VAL:HG21	1:A:273:LEU:CD2	2.18	0.60
1:C:940:LEU:HD12	1:C:946:TYR:OH	2.02	0.60
1:A:1549:VAL:N	1:A:1608:THR:HG22	2.02	0.60
1:C:1224:LEU:HD22	1:C:1224:LEU:N	2.17	0.60
2:B:3066:ASP:OD1	2:B:3248:ARG:HD2	2.01	0.60
2:B:2624:VAL:HG11	2:B:2683:TYR:CE1	2.36	0.60
1:C:688:PRO:HA	1:C:691:ILE:HG13	1.84	0.60
2:B:3209:ILE:CD1	2:B:3209:ILE:H	2.11	0.60
1:C:1406:TYR:CA	1:C:1543:ARG:HH12	2.14	0.60
2:B:2343:ALA:O	2:B:2345:PRO:HD3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:972:THR:HG22	1:C:973:ARG:N	2.17	0.60
2:D:2596:THR:CG2	2:D:2774:HIS:HE1	2.13	0.60
1:C:219:ILE:HG22	1:C:223:LEU:HD23	1.82	0.60
1:A:215:ARG:O	1:A:219:ILE:HG13	2.02	0.60
1:A:1542:GLU:HA	1:A:1545:ARG:HD3	1.84	0.60
1:C:1542:GLU:OE2	2:D:2501:GLY:CA	2.49	0.60
1:C:1189:ARG:NH2	2:D:2431:ARG:C	2.54	0.60
2:D:2154:THR:HB	2:D:2288:PHE:CZ	2.37	0.60
2:B:2432:LEU:HD21	2:B:2481:THR:CG2	2.32	0.60
2:B:1718:LYS:HD3	2:B:1720:PHE:CZ	2.36	0.60
2:B:1695:SER:HB3	2:B:1924:LEU:HD21	1.82	0.60
2:D:1793:ILE:CG2	2:D:1796:GLU:HB3	2.32	0.60
2:D:1914:LYS:HD3	2:D:1918:PHE:CE1	2.36	0.60
2:B:2539:ALA:HB1	2:B:2692:THR:HG23	1.83	0.60
1:C:698:LEU:CD1	1:C:700:TYR:HB3	2.29	0.60
1:A:1464:ILE:CD1	1:A:1526:LEU:HB3	2.31	0.60
1:C:285:MET:HB2	1:C:290:LEU:CD2	2.31	0.60
1:A:1567:PHE:CE2	1:A:1580:SER:HB3	2.36	0.60
2:B:1730:PHE:HD1	2:B:1731:PRO:HD3	1.67	0.60
2:B:3306:ILE:N	2:B:3306:ILE:HD12	2.17	0.60
2:D:2974:HIS:HE1	3:D:9008:CUO:O2	1.79	0.60
1:C:1345:TRP:CH2	1:C:1430:LEU:HD22	2.37	0.60
1:C:989:THR:HG21	1:C:991:ILE:HG22	1.83	0.60
2:D:2065:ILE:HD12	2:D:2065:ILE:N	2.17	0.60
2:B:3223:THR:HG23	2:B:3224:ASP:N	2.12	0.60
2:D:1927:HIS:O	2:D:1931:PHE:HD2	1.85	0.60
2:B:2596:THR:CG2	2:B:2774:HIS:HE1	2.13	0.60
2:D:2127:LYS:HE3	2:D:2333:ILE:HD11	1.83	0.60
2:D:3255:THR:O	2:D:3258:VAL:HG22	2.00	0.60
2:D:2397:ALA:HB1	2:D:2465:THR:O	2.00	0.60
2:D:2106:LEU:HD23	2:D:2164:HIS:ND1	2.16	0.60
2:D:2275:LEU:N	2:D:2275:LEU:HD22	2.16	0.60
2:D:1718:LYS:HD3	2:D:1720:PHE:CZ	2.36	0.60
2:D:2539:ALA:HB1	2:D:2692:THR:HG23	1.83	0.60
1:C:1316:PHE:CD2	1:C:1317:PRO:HD3	2.37	0.60
1:C:468:CYS:HB2	1:C:479:CYS:HA	1.83	0.60
1:C:431:LEU:HD11	1:C:512:PRO:HG3	1.82	0.60
1:A:1327:VAL:HG11	1:A:1452:PHE:CD1	2.37	0.60
1:A:464:LEU:HD13	1:A:465:PRO:CG	2.31	0.60
1:C:1142:PHE:HB3	1:C:1195:ILE:HG23	1.84	0.60
1:A:1147:LEU:HD23	1:A:1148:LEU:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:876:HIS:CE1	1:A:1042:PHE:CE2	2.90	0.60
1:C:1618:LEU:HD21	1:C:1648:PHE:HB2	1.84	0.60
2:D:2624:VAL:HG11	2:D:2683:TYR:CE1	2.36	0.60
1:A:940:LEU:HD12	1:A:946:TYR:OH	2.02	0.60
1:C:238:GLN:HE21	1:C:820:VAL:HG12	1.67	0.60
2:B:1817:LYS:HZ2	2:D:1779:GLU:HA	1.67	0.60
1:C:1010:GLN:HE22	1:C:1192:LYS:H	1.50	0.60
1:C:1032:SER:HB3	1:C:1035:TYR:HD2	1.66	0.60
1:C:177:LEU:HD12	1:C:358:TYR:CZ	2.37	0.60
1:A:1659:ASP:OD2	2:B:1942:LYS:CE	2.48	0.60
2:D:2716:GLU:HG2	2:D:2722:TYR:CD1	2.37	0.60
1:A:749:THR:HG22	1:A:753:VAL:N	2.14	0.60
1:C:1061:LYS:HE2	1:C:1067:TYR:CE1	2.37	0.60
2:B:2172:TYR:HB2	2:B:2293:PHE:HB2	1.84	0.60
2:B:2065:ILE:HD12	2:B:2065:ILE:N	2.17	0.60
2:D:2091:LEU:HD21	2:D:2171:PRO:HG3	1.84	0.59
2:B:2154:THR:HB	2:B:2288:PHE:CZ	2.37	0.59
1:C:1259:ARG:NH2	1:C:1324:VAL:HG21	2.17	0.59
1:A:270:TYR:O	1:A:273:LEU:HB2	2.02	0.59
1:A:84:ARG:HG2	1:A:84:ARG:O	2.01	0.59
1:A:1442:LEU:HD23	1:A:1589:LEU:CD1	2.32	0.59
1:A:579:PHE:CE1	1:A:718:MET:HE1	2.36	0.59
1:C:1110:THR:HG23	1:C:1111:ASN:N	2.17	0.59
1:C:1188:ASP:OD1	2:D:2389:LEU:HD11	2.01	0.59
2:B:3302:ASP:O	2:B:3324:THR:HA	2.02	0.59
2:B:3327:MET:CG	2:B:3328:PHE:H	2.15	0.59
1:C:1153:LYS:HG2	1:C:1182:GLU:OE2	2.01	0.59
1:A:734:LEU:HD12	1:A:734:LEU:N	2.17	0.59
2:B:3144:PHE:C	2:B:3149:VAL:HG11	2.21	0.59
1:C:734:LEU:N	1:C:734:LEU:HD12	2.17	0.59
1:C:1618:LEU:HD11	2:D:1906:VAL:HG11	1.84	0.59
1:A:1406:TYR:CA	1:A:1543:ARG:HH22	2.14	0.59
2:D:2670:HIS:HD1	2:D:2704:THR:CG2	2.09	0.59
1:A:128:ILE:HD12	1:A:128:ILE:N	2.17	0.59
2:D:3378:ALA:CB	2:D:3384:CYS:HA	2.32	0.59
2:D:2945:PHE:HD2	2:D:3143:PRO:HG2	1.67	0.59
2:B:2945:PHE:HD2	2:B:3143:PRO:HG2	1.67	0.59
1:C:286:THR:HG22	1:C:287:PRO:N	2.17	0.59
2:D:1784:ILE:HG22	2:D:1785:PRO:N	2.17	0.59
2:B:2014:MET:SD	2:B:2015:PRO:HD2	2.42	0.59
2:B:2908:VAL:HG23	2:B:3173:LYS:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2155:LEU:HD21	2:B:2354:LEU:CD1	2.31	0.59
2:B:2368:LEU:O	2:B:2371:ILE:HG12	2.02	0.59
1:C:513:TYR:CG	1:C:638:ARG:HD3	2.37	0.59
1:C:203:ASP:HB3	1:C:205:ILE:HG12	1.83	0.59
2:D:3306:ILE:HD12	2:D:3306:ILE:N	2.17	0.59
2:D:3308:ILE:HG12	2:D:3331:VAL:CG1	2.32	0.59
2:D:3054:LEU:HB2	2:D:3074:LEU:CD2	2.15	0.59
2:D:1994:ARG:CD	2:D:2035:LEU:HD21	2.32	0.59
1:A:411:ASP:HB2	1:A:412:PRO:HD3	1.84	0.59
2:B:2346:ASN:O	2:B:2349:PHE:HD1	1.85	0.59
1:A:989:THR:HG22	1:A:990:SER:N	2.17	0.59
2:D:2343:ALA:O	2:D:2345:PRO:HD3	2.02	0.59
1:A:1219:LEU:HD12	1:A:1220:LYS:HG3	1.83	0.59
1:C:977:ASN:O	1:C:980:PHE:HD1	1.85	0.59
2:D:2014:MET:SD	2:D:2015:PRO:HD2	2.42	0.59
2:B:2881:ILE:HG22	2:B:2882:LYS:O	2.02	0.59
2:D:2368:LEU:O	2:D:2371:ILE:HG12	2.02	0.59
2:B:2146:PHE:HD1	2:B:2147:PRO:HD3	1.67	0.59
1:C:583:LEU:O	1:C:583:LEU:HD23	2.03	0.59
1:A:1316:PHE:CD2	1:A:1317:PRO:HD3	2.37	0.59
1:C:104:LEU:HB3	1:C:123:TRP:CE3	2.37	0.59
1:C:903:HIS:ND1	1:C:1102:PRO:HB3	2.16	0.59
2:D:1730:PHE:HD1	2:D:1731:PRO:HD3	1.67	0.59
1:A:462:HIS:HB3	1:A:624:ALA:HB2	1.85	0.59
1:C:876:HIS:CE1	1:C:1042:PHE:CE2	2.90	0.59
2:D:3187:LEU:HD12	2:D:3190:VAL:CG1	2.32	0.59
1:C:486:ILE:CD1	1:C:688:PRO:HG2	2.17	0.59
1:A:1013:ILE:HA	1:A:1016:ASN:OD1	2.03	0.59
1:A:1312:GLY:HA3	1:A:1597:PHE:CD2	2.38	0.59
1:C:493:LEU:HD21	1:C:682:THR:CB	2.31	0.59
1:A:32:SER:CA	1:A:37:LYS:HG3	2.32	0.59
2:D:3338:PRO:HB2	2:D:3379:SER:OG	2.03	0.59
1:A:933:PRO:HB3	1:A:981:GLU:HA	1.85	0.59
2:D:3006:LEU:HD21	2:D:3035:VAL:HG11	1.84	0.59
2:D:2161:LEU:HB3	2:D:2166:SER:HB2	1.83	0.59
2:B:1793:ILE:CG2	2:B:1796:GLU:HB3	2.32	0.59
2:B:1707:LEU:CD2	2:B:2012:LYS:HG3	2.32	0.59
1:C:1363:ASN:HB3	1:C:1365:ARG:NH2	2.18	0.59
1:A:203:ASP:HB3	1:A:205:ILE:HG12	1.83	0.59
1:C:270:TYR:O	1:C:273:LEU:HB2	2.03	0.59
2:D:3263:LEU:HD22	2:D:3269:LYS:NZ	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3317:LYS:HZ3	2:D:3391:ILE:HG21	1.68	0.59
2:B:3187:LEU:HD12	2:B:3190:VAL:CG1	2.32	0.59
2:B:1830:ALA:O	2:B:1839:PHE:HD1	1.85	0.59
2:B:3308:ILE:HG12	2:B:3331:VAL:CG1	2.32	0.59
1:C:896:HIS:CE1	1:C:1033:LEU:CD2	2.66	0.59
2:D:3002:THR:HG21	2:D:3041:GLN:OE1	2.00	0.59
1:A:1153:LYS:HG2	1:A:1182:GLU:OE2	2.01	0.59
1:A:582:ILE:HG22	1:A:586:PHE:HE1	1.67	0.59
1:C:411:ASP:HB2	1:C:412:PRO:HD3	1.84	0.59
1:A:996:LEU:HD13	1:A:996:LEU:O	2.01	0.59
1:C:989:THR:HG22	1:C:990:SER:N	2.17	0.59
1:C:1421:GLU:O	1:C:1424:HIS:HB3	2.02	0.59
2:B:2568:HIS:ND1	2:B:2755:PRO:HB3	2.18	0.59
1:A:749:THR:HG23	1:A:751:ASP:N	2.17	0.59
1:C:32:SER:CA	1:C:37:LYS:HG3	2.32	0.59
2:D:2986:LYS:HA	2:D:2990:SER:HB3	1.83	0.59
2:D:1675:ASP:HB2	2:D:1678:GLN:HG3	1.83	0.59
1:A:315:SER:HB3	1:A:386:VAL:HG21	1.84	0.59
2:B:2716:GLU:HG2	2:B:2722:TYR:CD1	2.37	0.59
2:D:2609:GLU:HA	2:D:2615:HIS:CD2	2.37	0.59
2:B:2657:THR:HG23	2:B:2658:ASP:N	2.18	0.59
2:D:1949:THR:HG22	2:D:1950:LEU:N	2.18	0.59
2:D:2083:LYS:CG	2:D:2169:ALA:HB2	2.27	0.59
2:B:2275:LEU:HD22	2:B:2275:LEU:N	2.16	0.59
2:B:1707:LEU:HA	2:B:1709:PRO:CD	2.33	0.59
1:C:443:PHE:HD1	1:C:543:PRO:HB3	1.66	0.59
1:A:513:TYR:CG	1:A:638:ARG:HD3	2.37	0.59
2:D:3340:LEU:HD22	2:D:3377:THR:CG2	2.32	0.59
1:A:1618:LEU:HD21	1:A:1648:PHE:HB2	1.84	0.59
2:B:1773:SER:CA	2:B:1789:ILE:HD12	2.31	0.59
1:A:1224:LEU:HD22	1:A:1224:LEU:N	2.17	0.59
2:B:2401:PHE:HE1	2:B:2460:ILE:HG12	1.68	0.59
1:A:1033:LEU:HD13	1:A:1033:LEU:O	2.02	0.59
1:A:516:TRP:CE2	1:A:605:ILE:HD12	2.37	0.59
1:C:566:LEU:N	1:C:566:LEU:HD22	2.18	0.59
1:C:1646:ILE:HD13	2:D:1906:VAL:HG22	1.84	0.59
2:B:3211:THR:HG22	2:B:3212:THR:N	2.18	0.59
1:C:411:ASP:HB3	1:C:655:ARG:N	2.17	0.59
1:C:128:ILE:HG23	1:C:130:PHE:CE1	2.37	0.59
1:A:286:THR:HG22	1:A:287:PRO:N	2.17	0.59
2:B:2520:LYS:O	2:B:2613:PRO:HG2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2986:LYS:HA	2:B:2990:SER:HB3	1.83	0.59
2:D:2520:LYS:O	2:D:2613:PRO:HG2	2.02	0.59
2:D:2327:ARG:HG2	2:D:2331:TYR:CE1	2.36	0.59
2:B:2083:LYS:HZ3	2:B:2158:GLU:HB3	1.67	0.59
2:B:1747:LYS:HZ1	2:D:2094:ARG:CG	2.11	0.59
2:D:1707:LEU:HA	2:D:1709:PRO:CD	2.33	0.59
1:A:164:GLU:CB	1:A:294:LEU:HD13	2.32	0.59
1:A:583:LEU:HD23	1:A:583:LEU:O	2.03	0.59
1:C:1079:GLU:CB	2:D:2456:GLU:CD	2.42	0.59
2:B:2495:HIS:CD2	2:B:2515:GLU:OE2	2.55	0.59
2:B:3340:LEU:HD22	2:B:3377:THR:CG2	2.33	0.59
2:B:1932:SER:O	2:B:1934:PRO:HD3	2.01	0.59
2:D:2976:LEU:HD23	2:D:2976:LEU:O	2.03	0.59
1:C:582:ILE:HG22	1:C:586:PHE:HE1	1.67	0.59
1:A:989:THR:HG21	1:A:991:ILE:HG22	1.83	0.59
1:C:1009:ILE:HG23	1:C:1010:GLN:N	2.18	0.59
2:D:3211:THR:HG22	2:D:3212:THR:N	2.18	0.59
1:C:177:LEU:HD12	1:C:358:TYR:CD1	2.38	0.59
2:D:2893:LYS:HE3	2:D:2894:HIS:O	2.03	0.59
1:A:1061:LYS:HE2	1:A:1067:TYR:CE1	2.37	0.59
2:B:3338:PRO:HB2	2:B:3379:SER:OG	2.03	0.59
2:B:2062:THR:HG22	2:B:2063:PRO:N	2.18	0.59
2:D:2815:ASN:OD1	2:D:2817:ASP:HB2	2.03	0.59
1:C:532:TYR:CE2	1:C:534:ASP:HA	2.38	0.59
2:D:2146:PHE:HD1	2:D:2147:PRO:HD3	1.67	0.59
2:D:2267:VAL:CG2	2:D:2275:LEU:HB2	2.31	0.59
2:D:1707:LEU:CD2	2:D:2012:LYS:HG3	2.32	0.59
2:D:2829:LEU:HD13	2:D:2830:GLY:N	2.17	0.59
1:A:183:HIS:ND1	1:A:194:MET:CG	2.52	0.59
1:A:1276:ALA:HB1	1:A:1334:LYS:HB2	1.85	0.59
1:A:426:LYS:HB3	1:A:430:ASP:CG	2.22	0.59
1:C:164:GLU:CB	1:C:294:LEU:HD13	2.32	0.59
2:B:2494:HIS:CG	2:B:3124:VAL:CG1	2.72	0.59
2:D:1874:PHE:CE1	2:D:1878:HIS:ND1	2.71	0.59
2:D:1909:MET:HE1	2:D:1938:PHE:CZ	2.36	0.59
2:B:3219:ILE:CD1	2:B:3271:ARG:HD3	2.31	0.59
2:D:1990:PHE:CB	2:D:2045:VAL:HG22	2.33	0.59
2:B:1990:PHE:CB	2:B:2045:VAL:HG22	2.33	0.59
2:D:1705:HIS:HB3	2:D:1869:SER:HB3	1.85	0.59
2:D:2346:ASN:O	2:D:2349:PHE:HD1	1.85	0.59
1:C:620:LEU:HD13	1:C:768:GLU:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1542:GLU:HA	1:C:1545:ARG:HD3	1.83	0.59
2:D:2399:VAL:HG22	2:D:2416:ILE:O	2.02	0.59
1:A:1090:ILE:HG23	1:A:1091:ASN:N	2.17	0.59
1:C:1090:ILE:HG23	1:C:1091:ASN:N	2.17	0.59
1:C:464:LEU:HD13	1:C:465:PRO:CG	2.31	0.59
1:A:1259:ARG:HH22	1:A:1324:VAL:HG11	1.66	0.59
2:B:1874:PHE:CE1	2:B:1878:HIS:ND1	2.71	0.59
2:D:2323:THR:HG23	2:D:2324:GLN:N	2.18	0.59
1:C:895:VAL:HG22	1:C:898:MET:HB2	1.83	0.59
1:A:582:ILE:CG1	1:A:601:THR:HG21	2.31	0.59
2:B:2185:LEU:HD22	2:B:2185:LEU:N	2.17	0.59
2:D:1761:LEU:CD1	2:D:1762:PRO:HD2	2.30	0.59
1:A:1659:ASP:OD2	2:B:1939:ASP:CB	2.50	0.59
1:C:215:ARG:O	1:C:219:ILE:HG13	2.02	0.59
1:C:1219:LEU:HD12	1:C:1220:LYS:HG3	1.83	0.59
2:B:1686:LEU:HD12	2:B:1689:MET:CE	2.33	0.59
2:D:2172:TYR:HB2	2:D:2293:PHE:HB2	1.84	0.59
1:C:133:LYS:HG3	1:C:134:LYS:N	2.18	0.59
2:B:2815:ASN:OD1	2:B:2817:ASP:HB2	2.03	0.59
1:A:532:TYR:CE2	1:A:534:ASP:HA	2.38	0.59
2:B:3006:LEU:HD21	2:B:3035:VAL:HG11	1.83	0.59
2:B:1949:THR:HG22	2:B:1950:LEU:N	2.18	0.59
1:C:1249:GLN:CB	1:C:1470:ARG:NH2	2.61	0.59
1:A:160:LEU:HD21	1:A:293:TYR:HE2	1.67	0.59
1:A:234:MET:HE1	1:A:241:LEU:HD23	1.83	0.59
1:A:502:LEU:HA	1:A:505:ARG:CG	2.33	0.59
2:D:3317:LYS:NZ	2:D:3391:ILE:HG21	2.18	0.59
1:A:1392:ASP:HA	1:A:1394:LEU:HD23	1.84	0.59
1:A:1421:GLU:O	1:A:1424:HIS:HB3	2.02	0.59
1:A:1009:ILE:HG23	1:A:1010:GLN:N	2.17	0.59
1:A:928:TRP:HE3	1:A:1041:LEU:HD11	1.64	0.59
1:A:493:LEU:HD21	1:A:682:THR:CB	2.31	0.59
1:A:841:ASN:OD1	1:A:843:ASP:HB2	2.02	0.59
2:B:2660:CYS:CB	2:B:2841:ARG:HH12	2.16	0.59
2:D:2466:ALA:HB3	2:D:2468:ASN:O	2.03	0.59
2:D:2099:LEU:CB	2:D:2204:PHE:HZ	2.13	0.59
2:D:2244:LEU:CD1	2:D:2304:LEU:HD22	2.29	0.59
1:C:1086:LEU:HD22	1:C:1090:ILE:CD1	2.17	0.59
1:C:1319:TRP:CZ3	1:C:1323:TYR:HB2	2.38	0.59
1:A:23:LEU:CD1	1:A:26:LEU:HD23	2.33	0.59
1:A:1363:ASN:HB3	1:A:1365:ARG:NH2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:ASP:HA	1:A:678:ASN:ND2	2.18	0.59
1:C:285:MET:HE3	1:C:290:LEU:HD21	1.83	0.59
2:B:3263:LEU:HD22	2:B:3269:LYS:NZ	2.17	0.59
1:C:1033:LEU:O	1:C:1033:LEU:HD13	2.02	0.59
1:A:876:HIS:HB3	1:A:1037:ALA:HB2	1.85	0.59
1:A:482:HIS:HA	1:A:487:PHE:CD2	2.32	0.59
2:D:2994:ILE:HG23	2:D:3104:ILE:HG22	1.84	0.59
1:C:597:GLN:HA	1:C:777:PHE:HE1	1.68	0.59
2:D:2687:THR:HG21	2:D:2690:TYR:HB2	1.84	0.59
1:A:850:MET:HG2	1:A:940:LEU:HD13	1.85	0.59
1:C:1484:GLN:HE21	2:D:2065:ILE:HB	1.63	0.59
2:B:1845:ILE:HD12	2:B:2022:TYR:CG	2.37	0.59
2:B:2972:HIS:NE2	2:B:3165:VAL:HG12	2.18	0.59
1:A:34:GLY:O	1:A:38:ILE:HG13	2.03	0.59
2:D:3003:ILE:O	2:D:3039:ILE:HG23	2.03	0.59
2:B:3003:ILE:O	2:B:3039:ILE:HG23	2.03	0.59
1:C:1202:LEU:O	1:C:1203:LYS:HB2	2.03	0.59
2:B:2609:GLU:HA	2:B:2615:HIS:CD2	2.37	0.59
2:D:2881:ILE:HG22	2:D:2882:LYS:O	2.02	0.59
2:B:2296:LYS:O	2:B:2300:VAL:HG23	2.03	0.58
2:B:2327:ARG:HG2	2:B:2331:TYR:CE1	2.37	0.58
2:B:2829:LEU:HD13	2:B:2830:GLY:N	2.17	0.58
2:B:3316:PRO:CD	2:D:3350:LYS:CE	2.81	0.58
2:B:3297:ASN:O	2:B:3300:VAL:HG13	2.03	0.58
2:D:1773:SER:CA	2:D:1789:ILE:HD12	2.31	0.58
2:B:3317:LYS:NZ	2:B:3391:ILE:HG21	2.18	0.58
1:C:1147:LEU:HD23	1:C:1148:LEU:N	2.16	0.58
1:A:566:LEU:HD22	1:A:566:LEU:N	2.18	0.58
2:D:2144:PRO:HG2	2:D:2318:ALA:CB	2.27	0.58
1:C:128:ILE:HD12	1:C:128:ILE:N	2.17	0.58
1:A:891:PHE:HB3	1:A:1183:MET:HG3	1.85	0.58
2:D:2729:ILE:HG22	2:D:2733:LYS:NZ	2.18	0.58
1:A:533:VAL:HG13	1:A:533:VAL:O	2.03	0.58
2:B:1924:LEU:HD22	2:B:1924:LEU:N	2.18	0.58
1:A:1363:ASN:HB2	1:A:1365:ARG:NE	2.17	0.58
2:D:3366:MET:HG2	2:D:3367:TYR:N	2.14	0.58
1:C:1109:LYS:HG3	1:C:1110:THR:N	2.18	0.58
1:C:1119:LEU:O	1:C:1126:ILE:HD11	2.03	0.58
2:D:1890:SER:HA	2:D:1893:ARG:HE	1.67	0.58
1:A:895:VAL:HG22	1:A:898:MET:HB2	1.83	0.58
1:C:516:TRP:CE2	1:C:605:ILE:HD12	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1345:TRP:CH2	1:A:1430:LEU:HD22	2.37	0.58
1:A:964:ILE:HG12	1:A:1038:PHE:CD2	2.38	0.58
1:C:964:ILE:HG12	1:C:1038:PHE:CD2	2.38	0.58
2:B:1784:ILE:HG22	2:B:1785:PRO:N	2.17	0.58
2:D:2657:THR:HG23	2:D:2658:ASP:N	2.18	0.58
1:A:649:ARG:HH11	1:A:716:GLU:HG2	1.66	0.58
1:A:1662:THR:O	2:B:1893:ARG:HB2	2.03	0.58
2:D:3302:ASP:O	2:D:3324:THR:HA	2.03	0.58
2:D:1830:ALA:O	2:D:1839:PHE:HD1	1.85	0.58
2:B:1994:ARG:CD	2:B:2035:LEU:HD21	2.32	0.58
2:D:2930:LEU:HD13	2:D:2988:HIS:CD2	2.38	0.58
1:A:1110:THR:HG23	1:A:1111:ASN:N	2.17	0.58
2:B:2602:LEU:HD13	2:B:2628:ARG:HH11	1.66	0.58
1:C:316:ALA:CB	1:C:383:LEU:HD11	2.33	0.58
1:A:177:LEU:HD12	1:A:358:TYR:CZ	2.37	0.58
2:D:2972:HIS:NE2	2:D:3165:VAL:HG12	2.18	0.58
2:D:2568:HIS:ND1	2:D:2755:PRO:HB3	2.18	0.58
1:C:841:ASN:OD1	1:C:843:ASP:HB2	2.02	0.58
2:D:2132:HIS:NE2	2:D:2134:ASN:HB2	2.18	0.58
1:C:458:THR:O	1:C:461:TYR:HD1	1.85	0.58
2:D:3297:ASN:O	2:D:3300:VAL:HG13	2.03	0.58
1:A:458:THR:O	1:A:461:TYR:HD1	1.85	0.58
1:A:257:LEU:HD11	1:A:261:HIS:CE1	2.38	0.58
2:B:3006:LEU:H	2:B:3006:LEU:HD12	1.68	0.58
2:B:2729:ILE:HG22	2:B:2733:LYS:NZ	2.18	0.58
2:D:2640:ARG:HB3	2:D:2643:GLU:CB	2.33	0.58
1:C:1277:PHE:HD2	1:C:1373:PRO:HB3	1.69	0.58
1:A:1319:TRP:CZ3	1:A:1323:TYR:HB2	2.38	0.58
1:A:1646:ILE:HG21	2:B:1907:ASN:HB3	1.84	0.58
2:B:1811:LEU:O	2:B:1811:LEU:HD23	2.04	0.58
1:A:1171:ALA:HA	1:A:1198:LYS:HE2	1.86	0.58
1:C:462:HIS:HB3	1:C:624:ALA:HB2	1.85	0.58
1:A:405:PRO:CG	1:A:657:HIS:CB	2.63	0.58
1:C:305:ALA:N	1:C:362:LEU:HD13	2.18	0.58
1:A:305:ALA:N	1:A:362:LEU:HD13	2.18	0.58
1:A:1109:LYS:HG3	1:A:1110:THR:N	2.18	0.58
1:C:931:THR:HG21	1:C:1121:PHE:HE1	1.66	0.58
1:A:384:PHE:CE2	1:A:388:GLY:HA2	2.38	0.58
2:D:1686:LEU:HD12	2:D:1689:MET:CE	2.33	0.58
1:A:1124:LEU:HD11	1:A:1132:LYS:HD2	1.86	0.58
2:B:2323:THR:HG23	2:B:2324:GLN:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3006:LEU:H	2:D:3006:LEU:HD12	1.68	0.58
1:A:1609:LYS:HD3	1:A:1609:LYS:C	2.23	0.58
2:D:2155:LEU:HD21	2:D:2354:LEU:CD1	2.31	0.58
2:D:2296:LYS:O	2:D:2300:VAL:HG23	2.03	0.58
2:B:2157:PHE:O	2:B:2161:LEU:HD23	2.04	0.58
2:B:2267:VAL:HG23	2:B:2268:GLY:N	2.19	0.58
1:C:1363:ASN:HB2	1:C:1365:ARG:NE	2.17	0.58
1:A:21:ALA:O	1:A:24:ARG:HG2	2.04	0.58
1:A:1322:LEU:O	1:A:1326:VAL:HG23	2.03	0.58
2:D:3320:VAL:HG12	2:D:3321:LYS:N	2.16	0.58
2:B:1854:VAL:HG23	2:B:1862:ILE:CB	2.31	0.58
2:B:3205:VAL:HG13	2:B:3291:ILE:CD1	2.33	0.58
2:B:3314:LEU:HD23	2:B:3314:LEU:N	2.19	0.58
1:A:1153:LYS:HB2	1:A:1178:GLY:HA3	1.86	0.58
1:A:489:HIS:CB	1:A:688:PRO:HB3	2.33	0.58
2:B:1705:HIS:HB3	2:B:1869:SER:HB3	1.85	0.58
2:B:3209:ILE:HD11	2:B:3235:ILE:HG22	1.85	0.58
2:D:2533:ASN:OD1	2:D:2580:ALA:HB2	2.03	0.58
1:A:411:ASP:HB3	1:A:655:ARG:N	2.18	0.58
1:A:1395:PHE:CE2	1:A:1430:LEU:HB3	2.39	0.58
2:D:3209:ILE:HD11	2:D:3235:ILE:HG22	1.85	0.58
2:B:2975:ARG:HH12	2:B:3167:SER:HB3	1.68	0.58
2:D:2877:PRO:HB2	2:D:2879:ASP:OD1	2.02	0.58
1:A:157:GLU:OE1	1:A:157:GLU:HA	2.04	0.58
2:D:2141:HIS:HA	2:D:2146:PHE:HD2	1.68	0.58
2:D:2267:VAL:HG23	2:D:2268:GLY:N	2.19	0.58
2:B:1741:PHE:CE1	2:B:1875:TYR:HE1	2.22	0.58
1:A:23:LEU:HD12	1:A:26:LEU:HB3	1.86	0.58
2:D:3353:VAL:CG2	2:D:3381:THR:HG22	2.33	0.58
2:D:3042:GLN:CD	2:D:3049:SER:HB3	2.24	0.58
2:D:3059:LEU:CD2	2:D:3116:TRP:HB2	2.34	0.58
1:A:896:HIS:CE1	1:A:1033:LEU:CD2	2.66	0.58
2:D:2504:VAL:HG11	2:D:2506:LYS:HE2	1.85	0.58
1:C:1648:PHE:CB	2:D:1903:ASN:O	2.51	0.58
1:A:1119:LEU:O	1:A:1126:ILE:HD11	2.03	0.58
1:A:1392:ASP:HB2	1:A:1395:PHE:CZ	2.39	0.58
1:A:316:ALA:CB	1:A:383:LEU:HD11	2.33	0.58
1:C:1312:GLY:HA3	1:C:1597:PHE:CD2	2.37	0.58
1:C:1124:LEU:HD11	1:C:1132:LYS:CD	2.34	0.58
1:C:1538:HIS:ND1	2:D:2498:SER:CB	2.67	0.58
1:C:315:SER:HB3	1:C:386:VAL:HG21	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:PHE:CE2	1:A:320:VAL:HG21	2.38	0.58
2:B:2466:ALA:HB3	2:B:2468:ASN:O	2.03	0.58
2:D:2737:ARG:HB3	2:D:2738:PRO:HA	1.85	0.58
1:C:533:VAL:O	1:C:533:VAL:HG13	2.03	0.58
2:D:2140:ILE:CG2	2:D:2146:PHE:HA	2.31	0.58
2:B:2100:LYS:HD3	2:B:2100:LYS:O	2.04	0.58
2:D:1924:LEU:N	2:D:1924:LEU:HD22	2.18	0.58
1:A:179:HIS:HD1	1:A:213:VAL:CG1	2.04	0.58
1:A:285:MET:HE3	1:A:290:LEU:HD21	1.84	0.58
1:A:477:TYR:HD1	1:A:478:ALA:O	1.87	0.58
1:C:850:MET:HG2	1:C:940:LEU:HD13	1.85	0.58
2:D:1811:LEU:HD23	2:D:1811:LEU:O	2.04	0.58
2:B:1806:ILE:HD11	2:B:1854:VAL:HG12	1.85	0.58
2:B:3339:MET:SD	2:B:3389:LEU:HD13	2.44	0.58
1:A:578:LEU:HD13	1:A:581:GLN:HE22	1.64	0.58
1:C:486:ILE:HG12	1:C:667:LEU:HD21	1.86	0.58
1:A:924:ALA:O	1:A:926:PRO:HD3	2.04	0.58
1:C:1406:TYR:CA	1:C:1543:ARG:HH22	2.14	0.58
1:C:254:ASP:O	1:C:256:PRO:HD3	2.04	0.58
2:D:2596:THR:HG23	2:D:2647:TYR:HA	1.85	0.58
1:C:1609:LYS:C	1:C:1609:LYS:HD3	2.23	0.58
2:D:2100:LYS:O	2:D:2100:LYS:HD3	2.04	0.58
2:D:2115:PHE:CA	2:D:2118:ILE:HG22	2.33	0.58
2:D:2157:PHE:O	2:D:2161:LEU:HD23	2.04	0.58
2:B:1737:TYR:CE2	2:B:1741:PHE:HE1	2.22	0.58
1:C:1276:ALA:HB1	1:C:1334:LYS:HB2	1.85	0.58
1:C:1338:VAL:HG12	1:C:1339:ALA:N	2.19	0.58
1:A:22:ALA:CB	1:A:83:LYS:HB3	2.33	0.58
1:A:1338:VAL:HG12	1:A:1339:ALA:N	2.19	0.58
1:C:21:ALA:O	1:C:24:ARG:HG2	2.04	0.58
1:C:23:LEU:HD12	1:C:26:LEU:HB3	1.86	0.58
2:B:1890:SER:HA	2:B:1893:ARG:HE	1.67	0.58
2:D:3205:VAL:HG13	2:D:3291:ILE:CD1	2.33	0.58
2:B:2493:ASP:OD1	2:B:3124:VAL:HG21	2.03	0.58
1:A:1142:PHE:HB3	1:A:1195:ILE:HG23	1.84	0.58
2:B:1874:PHE:CZ	2:B:1878:HIS:NE2	2.68	0.58
1:A:1030:MET:SD	1:A:1036:THR:HG23	2.44	0.58
1:A:688:PRO:HA	1:A:691:ILE:HG13	1.84	0.58
1:A:802:ILE:CD1	1:A:810:LEU:HD12	2.34	0.58
2:B:2976:LEU:O	2:B:2976:LEU:HD23	2.03	0.58
2:B:2930:LEU:HD13	2:B:2988:HIS:CD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2994:ILE:HG23	2:B:3104:ILE:HG22	1.84	0.58
1:C:748:LYS:CA	1:C:754:GLN:HG2	2.33	0.58
1:A:931:THR:HG22	1:A:991:ILE:HG12	1.85	0.58
2:B:1817:LYS:NZ	2:D:1779:GLU:HA	2.18	0.58
2:B:2596:THR:HG23	2:B:2647:TYR:HA	1.85	0.58
2:B:2604:THR:C	2:B:2607:THR:HG22	2.24	0.58
1:A:1189:ARG:NH1	2:B:2431:ARG:HA	2.19	0.58
1:C:1124:LEU:HD11	1:C:1132:LYS:HD2	1.86	0.58
1:A:1124:LEU:HD11	1:A:1132:LYS:CD	2.34	0.58
2:B:2948:TYR:OH	2:B:3240:LYS:HD3	2.04	0.58
2:D:2062:THR:HG22	2:D:2063:PRO:N	2.18	0.58
2:D:2115:PHE:HA	2:D:2118:ILE:CG2	2.33	0.58
2:B:2115:PHE:CA	2:B:2118:ILE:HG22	2.33	0.58
2:B:2275:LEU:CD1	2:B:2284:ASP:HB3	2.27	0.58
2:B:2195:TRP:N	2:D:1921:PRO:HB3	2.05	0.58
1:C:453:ASP:HA	1:C:678:ASN:ND2	2.18	0.58
1:C:649:ARG:HH11	1:C:716:GLU:HG2	1.66	0.58
1:A:698:LEU:CD1	1:A:700:TYR:HB3	2.29	0.58
2:D:1854:VAL:CG2	2:D:1862:ILE:HG13	2.34	0.58
1:C:1030:MET:SD	1:C:1036:THR:HG23	2.44	0.58
1:C:876:HIS:HB3	1:C:1037:ALA:HB2	1.85	0.58
1:C:802:ILE:CD1	1:C:810:LEU:HD12	2.34	0.58
2:D:2627:THR:HG23	2:D:2681:THR:HG21	1.85	0.58
1:C:1392:ASP:HB2	1:C:1395:PHE:CZ	2.39	0.58
2:B:3378:ALA:CB	2:B:3384:CYS:HA	2.32	0.58
1:A:177:LEU:HD12	1:A:358:TYR:CD1	2.38	0.58
1:C:384:PHE:CE2	1:C:388:GLY:HA2	2.38	0.58
2:B:3142:HIS:CD2	2:B:3145:ASN:HD21	2.16	0.58
1:A:301:ALA:HB1	1:A:404:HIS:CB	2.34	0.58
1:A:977:ASN:O	1:A:980:PHE:HD1	1.86	0.58
2:B:3286:VAL:HG23	2:B:3286:VAL:O	2.04	0.58
2:B:2243:ALA:HB2	2:B:2255:GLN:HG2	1.85	0.58
2:B:2142:GLY:HA3	2:B:2427:TRP:CE3	2.38	0.58
2:B:2195:TRP:CA	2:D:1921:PRO:C	2.71	0.58
1:C:1322:LEU:O	1:C:1326:VAL:HG23	2.03	0.58
2:D:2697:PHE:CZ	2:D:2701:HIS:NE2	2.72	0.58
1:C:502:LEU:HA	1:C:505:ARG:CG	2.33	0.58
2:D:3339:MET:SD	2:D:3389:LEU:HD13	2.44	0.58
1:A:1640:VAL:HG23	1:A:1641:ILE:N	2.19	0.58
2:D:1854:VAL:HG11	2:D:1873:LEU:CD2	2.34	0.58
2:B:3268:VAL:O	2:B:3268:VAL:HG13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1019:HIS:HA	1:A:1030:MET:HG3	1.85	0.58
1:C:489:HIS:CB	1:C:688:PRO:HB3	2.33	0.58
1:C:931:THR:HG22	1:C:991:ILE:HG12	1.85	0.58
1:A:162:ALA:HB2	1:A:174:GLN:HB3	1.86	0.58
1:C:33:ILE:HD11	1:C:254:ASP:OD2	2.04	0.58
2:B:3024:ILE:HD12	2:B:3098:PHE:CG	2.39	0.58
2:B:2940:GLU:OE2	2:B:3025:ARG:HB3	2.04	0.58
2:D:2660:CYS:CB	2:D:2841:ARG:HH12	2.16	0.58
1:C:106:ALA:O	1:C:108:PRO:HD3	2.04	0.58
1:C:307:PHE:CE2	1:C:320:VAL:HG21	2.38	0.58
2:B:2737:ARG:HB3	2:B:2738:PRO:HA	1.85	0.58
1:C:157:GLU:HA	1:C:157:GLU:OE1	2.04	0.58
2:B:2141:HIS:HA	2:B:2146:PHE:HD2	1.68	0.57
1:A:1086:LEU:CB	1:A:1090:ILE:HG21	2.34	0.57
2:D:3318:VAL:O	2:D:3320:VAL:HG23	2.04	0.57
1:C:1108:TYR:HB2	1:C:1114:TYR:CZ	2.39	0.57
2:D:1757:TRP:CZ3	2:D:1873:LEU:HD21	2.39	0.57
1:A:486:ILE:HG12	1:A:667:LEU:HD21	1.86	0.57
2:B:2533:ASN:OD1	2:B:2580:ALA:HB2	2.03	0.57
1:A:1108:TYR:HB2	1:A:1114:TYR:CZ	2.39	0.57
1:C:1013:ILE:HA	1:C:1016:ASN:OD1	2.03	0.57
2:D:1845:ILE:HD12	2:D:2022:TYR:CG	2.37	0.57
2:D:3215:VAL:HG21	2:D:3233:PHE:CE1	2.39	0.57
2:D:2604:THR:C	2:D:2607:THR:HG22	2.24	0.57
1:A:620:LEU:HD13	1:A:768:GLU:HB3	1.85	0.57
1:A:106:ALA:O	1:A:108:PRO:HD3	2.03	0.57
1:C:933:PRO:HB3	1:C:981:GLU:HA	1.85	0.57
2:D:1737:TYR:CE2	2:D:1741:PHE:HE1	2.22	0.57
1:C:1286:TYR:O	1:C:1289:ILE:HG12	2.05	0.57
1:C:1515:TYR:CZ	1:C:1519:PHE:HB2	2.35	0.57
1:C:477:TYR:HD1	1:C:478:ALA:O	1.87	0.57
1:A:496:THR:CB	1:A:698:LEU:HD21	2.33	0.57
2:D:3305:GLU:OE1	2:D:3317:LYS:HE3	2.04	0.57
2:B:3074:LEU:C	2:B:3074:LEU:HD13	2.24	0.57
2:B:1854:VAL:CG2	2:B:1862:ILE:HG13	2.34	0.57
2:D:3045:PHE:HD1	2:D:3182:HIS:HE2	1.51	0.57
1:A:1019:HIS:HA	1:A:1030:MET:CG	2.35	0.57
1:C:516:TRP:CZ3	1:C:605:ILE:HG23	2.40	0.57
1:C:1640:VAL:HG23	1:C:1641:ILE:N	2.19	0.57
1:A:1557:ASN:HB3	1:A:1597:PHE:CE2	2.38	0.57
2:D:2760:GLU:CB	2:D:2763:ARG:HD2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2953:PRO:CD	2:B:2960:TYR:HB3	2.34	0.57
2:D:2940:GLU:OE2	2:D:3025:ARG:HB3	2.04	0.57
2:B:3194:LEU:N	2:B:3194:LEU:HD12	2.19	0.57
2:B:2640:ARG:HB3	2:B:2643:GLU:CB	2.34	0.57
2:D:2118:ILE:O	2:D:2121:PHE:HD1	1.87	0.57
2:B:2103:LEU:HD23	2:B:2106:LEU:CD1	2.34	0.57
2:B:2115:PHE:HA	2:B:2118:ILE:CG2	2.33	0.57
2:B:2289:ILE:N	2:B:2289:ILE:HD12	2.19	0.57
1:C:23:LEU:CD1	1:C:26:LEU:HD23	2.33	0.57
2:B:1759:TRP:CD1	2:B:1811:LEU:HD11	2.37	0.57
2:B:1850:VAL:HG21	2:B:1877:HIS:CG	2.39	0.57
2:B:3308:ILE:HG22	2:B:3312:VAL:HB	1.86	0.57
2:B:3391:ILE:CD1	2:B:3391:ILE:H	2.15	0.57
1:A:489:HIS:HB3	1:A:691:ILE:HG13	1.85	0.57
1:A:597:GLN:HA	1:A:777:PHE:HE1	1.68	0.57
1:C:594:PHE:CE2	1:C:598:PHE:HB2	2.39	0.57
2:D:2622:LEU:HD23	2:D:2690:TYR:OH	2.05	0.57
2:D:2142:GLY:HA3	2:D:2427:TRP:CE3	2.38	0.57
1:C:1420:LEU:O	1:C:1423:LEU:HG	2.05	0.57
1:A:33:ILE:HD12	1:A:33:ILE:H	1.69	0.57
1:C:33:ILE:H	1:C:33:ILE:HD12	1.69	0.57
1:C:891:PHE:HB3	1:C:1183:MET:HG3	1.85	0.57
2:D:3286:VAL:O	2:D:3286:VAL:HG23	2.04	0.57
1:C:1189:ARG:NH2	2:D:2431:ARG:HB3	2.18	0.57
2:B:2329:PHE:HD1	2:B:2339:THR:HG1	1.50	0.57
2:B:2159:GLN:HG2	2:B:2336:ASN:HD21	1.69	0.57
1:A:872:LEU:HD12	1:A:875:PHE:CD1	2.40	0.57
1:A:724:GLN:CD	1:A:828:LYS:HE2	2.22	0.57
1:C:1087:SER:N	1:C:1097:LYS:HE2	2.20	0.57
1:C:146:LYS:HZ1	1:C:148:LYS:HE3	1.70	0.57
1:C:95:THR:CG2	1:C:283:ASN:HD21	2.17	0.57
1:C:924:ALA:O	1:C:926:PRO:HD3	2.04	0.57
2:B:3042:GLN:CD	2:B:3049:SER:HB3	2.24	0.57
2:B:3059:LEU:CD2	2:B:3116:TRP:HB2	2.34	0.57
2:B:3184:ILE:HG13	2:B:3185:GLU:N	2.19	0.57
2:B:1854:VAL:HG11	2:B:1873:LEU:CD2	2.35	0.57
2:B:3353:VAL:CG2	2:B:3381:THR:HG22	2.33	0.57
2:B:3215:VAL:HG21	2:B:3233:PHE:CE1	2.39	0.57
1:C:1345:TRP:CZ3	1:C:1400:PHE:HD2	2.22	0.57
2:B:2500:ALA:CB	2:B:3131:SER:CB	2.82	0.57
1:C:1557:ASN:HB3	1:C:1597:PHE:CE2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:ASP:O	1:A:256:PRO:HD3	2.04	0.57
1:A:749:THR:HG23	1:A:751:ASP:HB2	1.86	0.57
2:D:3322:ARG:HG3	2:D:3371:SER:CB	2.34	0.57
2:B:2170:VAL:HG11	2:B:2288:PHE:HD1	1.69	0.57
1:A:866:ALA:O	1:A:871:GLN:HB3	2.05	0.57
2:B:2577:MET:HE1	2:B:2698:TRP:CZ2	2.38	0.57
1:A:89:LEU:CD2	1:A:89:LEU:H	2.17	0.57
1:C:160:LEU:HD21	1:C:293:TYR:HE2	1.67	0.57
2:D:3288:PRO:HB2	2:D:3313:ASN:O	2.04	0.57
2:B:3288:PRO:HB2	2:B:3313:ASN:O	2.04	0.57
1:A:1345:TRP:CZ3	1:A:1400:PHE:HD2	2.22	0.57
1:C:1395:PHE:CE2	1:C:1430:LEU:HB3	2.39	0.57
2:B:3160:LEU:HD12	2:B:3162:ASN:HB2	1.86	0.57
2:B:2132:HIS:NE2	2:B:2134:ASN:HB2	2.18	0.57
2:D:2975:ARG:HH12	2:D:3114:ILE:HD11	1.69	0.57
2:B:1987:THR:HG22	2:B:2048:THR:HG22	1.86	0.57
2:B:1987:THR:CG2	2:B:2048:THR:HG22	2.34	0.57
1:C:592:CYS:CB	1:C:775:ARG:HH12	2.17	0.57
1:A:44:ALA:HA	1:A:45:PRO:C	2.24	0.57
1:C:255:ILE:O	1:C:255:ILE:HG23	2.04	0.57
2:D:2159:GLN:HG2	2:D:2336:ASN:HD21	1.69	0.57
2:D:2569:TRP:CZ3	2:D:2573:TYR:HB2	2.40	0.57
1:C:676:LEU:CD2	1:C:1365:ARG:CA	2.83	0.57
1:C:234:MET:HE1	1:C:241:LEU:HB2	1.86	0.57
1:C:943:HIS:CE1	1:C:946:TYR:CE1	2.93	0.57
2:D:1806:ILE:HD11	2:D:1854:VAL:HG12	1.85	0.57
1:C:1171:ALA:HA	1:C:1198:LYS:HE2	1.86	0.57
1:C:1019:HIS:HA	1:C:1030:MET:CG	2.35	0.57
1:C:1153:LYS:HB2	1:C:1178:GLY:HA3	1.86	0.57
2:D:2999:TRP:HH2	2:D:3074:LEU:HD11	1.69	0.57
1:A:516:TRP:CZ3	1:A:605:ILE:HG23	2.39	0.57
1:A:748:LYS:CA	1:A:754:GLN:HG2	2.33	0.57
1:C:602:HIS:ND1	1:C:636:VAL:HG21	2.19	0.57
1:C:1300:GLN:HE21	1:C:1305:PRO:HA	1.70	0.57
1:A:1420:LEU:O	1:A:1423:LEU:HG	2.05	0.57
1:C:991:ILE:HG23	1:C:992:ALA:N	2.19	0.57
2:D:3160:LEU:HD12	2:D:3162:ASN:HB2	1.86	0.57
2:B:3160:LEU:HD13	2:B:3162:ASN:N	2.17	0.57
1:A:33:ILE:HD11	1:A:254:ASP:OD2	2.04	0.57
1:A:169:CYS:HB3	1:A:356:ARG:NH2	2.20	0.57
1:C:169:CYS:HB3	1:C:356:ARG:NH2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1987:THR:CG2	2:D:2048:THR:HG22	2.34	0.57
1:C:1545:ARG:HB2	1:C:1545:ARG:NH1	2.20	0.57
2:B:2562:GLY:HA3	2:B:2837:TRP:CD2	2.40	0.57
2:B:1914:LYS:HD3	2:B:1918:PHE:CE1	2.36	0.57
2:B:2569:TRP:CZ3	2:B:2573:TYR:HB2	2.40	0.57
1:C:872:LEU:HD12	1:C:875:PHE:CD1	2.40	0.57
1:A:205:ILE:HG13	1:A:206:PHE:N	2.19	0.57
1:A:67:HIS:CG	1:A:264:PRO:HB3	2.40	0.57
1:A:95:THR:CG2	1:A:283:ASN:HD21	2.17	0.57
1:A:1277:PHE:HD2	1:A:1373:PRO:HB3	1.69	0.57
1:C:89:LEU:HB2	1:C:207:PHE:CZ	2.40	0.57
1:C:1070:ALA:HB3	1:C:1077:MET:SD	2.45	0.57
1:A:1567:PHE:HD1	1:A:1583:ALA:HA	1.69	0.57
2:B:3287:LEU:HB2	2:B:3288:PRO:CA	2.35	0.57
2:B:2687:THR:HG21	2:B:2690:TYR:HB2	1.84	0.57
1:C:585:ALA:O	1:C:594:PHE:HD1	1.88	0.57
1:A:1129:LEU:O	1:A:1133:LEU:HG	2.05	0.57
1:C:1134:GLU:HA	1:C:1134:GLU:OE1	2.05	0.57
1:C:34:GLY:O	1:C:38:ILE:HG13	2.03	0.57
2:D:2953:PRO:CD	2:D:2960:TYR:HB3	2.34	0.57
1:A:854:ARG:HE	1:A:955:LYS:HD2	1.70	0.57
1:A:55:ILE:HD12	1:A:350:MET:HB2	1.86	0.57
1:C:257:LEU:HD11	1:C:261:HIS:CE1	2.38	0.57
1:C:861:LYS:HZ3	1:C:962:GLY:HA3	1.69	0.57
1:C:1485:LEU:HD12	1:C:1485:LEU:N	2.19	0.57
2:D:2103:LEU:HD23	2:D:2106:LEU:CD1	2.34	0.57
2:B:2103:LEU:CD2	2:B:2161:LEU:HD11	2.31	0.57
2:B:2206:ARG:NH2	2:B:2218:ARG:HG2	2.16	0.57
2:B:2267:VAL:HG21	2:B:2275:LEU:CG	2.31	0.57
2:B:1711:CYS:CB	2:B:1712:PRO:HD3	2.34	0.57
2:D:1741:PHE:CE1	2:D:1875:TYR:HE1	2.22	0.57
1:A:89:LEU:HB2	1:A:207:PHE:CZ	2.40	0.57
1:A:234:MET:HE1	1:A:241:LEU:HB2	1.85	0.57
1:A:502:LEU:O	1:A:505:ARG:HB2	2.04	0.57
2:D:3391:ILE:H	2:D:3391:ILE:CD1	2.15	0.57
2:B:2622:LEU:HD23	2:B:2690:TYR:OH	2.05	0.57
1:C:405:PRO:CG	1:C:657:HIS:CB	2.63	0.57
2:B:2634:LEU:CD1	2:B:2676:TRP:HE3	2.14	0.57
2:D:3211:THR:HA	2:D:3238:GLY:CA	2.34	0.57
1:C:44:ALA:HA	1:C:45:PRO:C	2.24	0.57
2:B:2867:ARG:HG3	2:B:2867:ARG:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2289:ILE:HD12	2:D:2289:ILE:N	2.19	0.57
1:C:1086:LEU:CB	1:C:1090:ILE:HG21	2.34	0.57
1:C:436:VAL:HG21	1:C:526:LEU:HG	1.85	0.57
1:A:1286:TYR:O	1:A:1289:ILE:HG12	2.05	0.57
1:A:436:VAL:HG21	1:A:526:LEU:HG	1.85	0.57
2:D:3265:ASP:HB2	2:D:3292:ILE:HD11	1.85	0.57
2:D:3353:VAL:CG1	2:D:3377:THR:HG21	2.35	0.57
2:B:3052:PHE:CZ	2:B:3056:LEU:HD23	2.40	0.57
1:A:1073:ALA:HB1	1:A:1076:SER:OG	2.05	0.57
1:A:585:ALA:O	1:A:594:PHE:HD1	1.88	0.57
2:B:2647:TYR:HD1	2:B:2774:HIS:CE1	2.23	0.57
1:C:1295:SER:HA	1:C:1296:PRO:C	2.24	0.57
2:B:1686:LEU:HD12	2:B:1689:MET:HE1	1.87	0.57
2:D:2948:TYR:OH	2:D:3240:LYS:HD3	2.04	0.57
1:A:854:ARG:NH1	1:A:854:ARG:HB3	2.19	0.57
2:D:2811:PHE:CE2	2:D:2823:ALA:HB1	2.40	0.57
1:A:133:LYS:HG3	1:A:134:LYS:N	2.18	0.57
1:C:100:GLN:HG2	1:C:101:LEU:N	2.20	0.57
1:C:55:ILE:HD12	1:C:350:MET:HB2	1.86	0.57
2:B:2741:ASP:CG	2:B:2743:ILE:HG22	2.25	0.57
1:C:1542:GLU:OE2	2:D:2501:GLY:HA3	2.05	0.57
1:A:592:CYS:HB3	1:A:775:ARG:HH12	1.70	0.57
1:A:592:CYS:CB	1:A:775:ARG:HH12	2.17	0.57
2:D:2562:GLY:HA3	2:D:2837:TRP:CD2	2.40	0.57
2:B:2280:TYR:O	2:B:2283:TYR:HD1	1.88	0.57
2:D:2194:VAL:HG12	2:D:2195:TRP:N	2.20	0.57
1:C:1289:ILE:HD12	1:C:1327:VAL:HG12	1.85	0.57
1:C:496:THR:CB	1:C:698:LEU:HD21	2.33	0.57
1:C:576:THR:HG23	1:C:579:PHE:CB	2.34	0.57
1:A:498:VAL:HG11	1:A:511:ILE:HD11	1.76	0.57
1:C:1055:ILE:HG22	1:C:1119:LEU:HB3	1.86	0.57
2:D:1733:TRP:HB2	2:D:1913:LEU:HD23	1.87	0.57
2:B:3318:VAL:O	2:B:3320:VAL:HG23	2.04	0.57
2:B:2624:VAL:HG22	2:B:2625:ASP:N	2.20	0.57
1:A:1055:ILE:HG22	1:A:1119:LEU:HB3	1.86	0.57
1:A:906:ARG:HH11	1:A:1108:TYR:HB3	1.67	0.57
1:A:991:ILE:CD1	1:A:995:VAL:HG13	2.35	0.57
2:B:2519:LEU:HD12	2:B:2605:PHE:CZ	2.40	0.57
1:A:1485:LEU:N	1:A:1485:LEU:HD12	2.19	0.57
2:D:2146:PHE:CD1	2:D:2147:PRO:HD3	2.40	0.56
2:B:2146:PHE:CD1	2:B:2147:PRO:HD3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2179:ILE:O	2:B:2179:ILE:HG23	2.04	0.56
2:B:2291:HIS:HA	2:B:2294:VAL:HG12	1.87	0.56
2:B:2535:TYR:CZ	2:B:2698:TRP:HH2	2.22	0.56
1:A:97:PRO:HG2	1:A:148:LYS:HD3	1.87	0.56
1:A:576:THR:HG23	1:A:579:PHE:CB	2.34	0.56
2:D:3342:LEU:HA	2:D:3375:PHE:HB3	1.87	0.56
1:C:489:HIS:HB3	1:C:691:ILE:HG13	1.85	0.56
1:C:486:ILE:H	1:C:662:LEU:HD21	1.70	0.56
1:C:402:VAL:CG2	1:C:657:HIS:O	2.53	0.56
1:A:943:HIS:CE1	1:A:946:TYR:CE1	2.93	0.56
1:A:1134:GLU:HA	1:A:1134:GLU:OE1	2.05	0.56
1:A:991:ILE:HG23	1:A:992:ALA:N	2.19	0.56
1:A:880:LYS:N	1:A:880:LYS:HD3	2.19	0.56
1:C:854:ARG:HB3	1:C:854:ARG:NH1	2.19	0.56
2:B:2885:THR:HG22	2:B:2886:VAL:N	2.19	0.56
1:A:100:GLN:HG2	1:A:101:LEU:N	2.20	0.56
1:A:861:LYS:HZ3	1:A:962:GLY:HA3	1.69	0.56
2:D:2085:ARG:HD2	2:D:2358:TYR:HE1	1.63	0.56
2:D:1711:CYS:CB	2:D:1712:PRO:HD3	2.34	0.56
1:A:1087:SER:N	1:A:1097:LYS:HE2	2.20	0.56
1:C:1476:TYR:CE2	1:C:1477:ARG:HB3	2.41	0.56
1:A:94:TRP:HB2	1:A:182:ILE:HD11	1.87	0.56
1:A:572:PHE:CZ	1:A:848:GLU:HG3	2.41	0.56
2:D:3287:LEU:HB2	2:D:3288:PRO:CA	2.35	0.56
2:D:3314:LEU:N	2:D:3314:LEU:HD23	2.19	0.56
2:D:3318:VAL:HG13	2:D:3394:HIS:O	2.04	0.56
2:D:1850:VAL:HG21	2:D:1877:HIS:CG	2.39	0.56
2:D:1730:PHE:CD1	2:D:1731:PRO:HD3	2.40	0.56
1:C:1646:ILE:HG23	1:C:1646:ILE:O	2.05	0.56
2:B:3215:VAL:HA	2:B:3275:LYS:HA	1.88	0.56
1:A:1070:ALA:HB3	1:A:1077:MET:SD	2.45	0.56
1:A:1407:ALA:O	1:A:1416:PHE:HD1	1.87	0.56
2:D:1761:LEU:HD12	2:D:1762:PRO:CD	2.31	0.56
2:B:3322:ARG:HG3	2:B:3371:SER:CB	2.34	0.56
1:A:35:PHE:HA	1:A:38:ILE:HD12	1.87	0.56
2:B:2556:TYR:HD1	2:B:2557:SER:O	1.87	0.56
2:B:2975:ARG:HH12	2:B:3114:ILE:HD11	1.69	0.56
2:B:2948:TYR:CD2	2:B:2949:PRO:HA	2.40	0.56
1:A:1202:LEU:O	1:A:1203:LYS:HB2	2.03	0.56
2:D:1784:ILE:HG23	2:D:1785:PRO:HD2	1.87	0.56
1:C:866:ALA:O	1:C:871:GLN:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:864:LYS:HA	1:C:864:LYS:HE2	1.87	0.56
2:D:2179:ILE:O	2:D:2179:ILE:HG23	2.04	0.56
2:D:2356:TYR:HE2	2:D:2358:TYR:CE2	2.23	0.56
2:D:2244:LEU:O	2:D:2244:LEU:HD13	2.05	0.56
2:D:2280:TYR:O	2:D:2283:TYR:HD1	1.88	0.56
2:D:2291:HIS:HA	2:D:2294:VAL:HG12	1.87	0.56
2:B:2118:ILE:O	2:B:2121:PHE:HD1	1.87	0.56
2:B:2356:TYR:HE2	2:B:2358:TYR:CE2	2.23	0.56
2:D:1708:PRO:HD3	2:D:1795:PHE:CZ	2.40	0.56
2:B:2195:TRP:HB3	2:D:1921:PRO:O	2.05	0.56
1:C:1262:ILE:HA	1:C:1265:LEU:CD2	2.34	0.56
1:C:1330:ALA:O	1:C:1334:LYS:HG2	2.06	0.56
1:A:1316:PHE:CB	1:A:1317:PRO:HD3	2.36	0.56
1:A:1289:ILE:HD12	1:A:1327:VAL:HG12	1.85	0.56
1:A:676:LEU:CD2	1:A:1365:ARG:CA	2.83	0.56
1:C:97:PRO:HG2	1:C:148:LYS:HD3	1.87	0.56
1:C:94:TRP:HB2	1:C:182:ILE:HD11	1.87	0.56
2:D:3308:ILE:HG22	2:D:3312:VAL:HB	1.86	0.56
1:C:1073:ALA:HB1	1:C:1076:SER:OG	2.05	0.56
1:C:849:GLU:O	1:C:921:TYR:HE1	1.89	0.56
1:A:1646:ILE:O	1:A:1646:ILE:HG23	2.05	0.56
2:B:2974:HIS:NE2	3:B:9008:CUO:O2	2.38	0.56
2:B:3305:GLU:OE1	2:B:3317:LYS:HE3	2.04	0.56
2:B:3265:ASP:HB2	2:B:3292:ILE:HD11	1.85	0.56
2:D:2401:PHE:HE1	2:D:2460:ILE:HG21	1.70	0.56
2:D:2401:PHE:HE1	2:D:2460:ILE:HG12	1.68	0.56
2:D:3074:LEU:HD13	2:D:3074:LEU:C	2.24	0.56
2:D:3184:ILE:HG13	2:D:3185:GLU:N	2.19	0.56
2:B:1733:TRP:HB2	2:B:1913:LEU:HD23	1.87	0.56
1:A:895:VAL:O	1:A:895:VAL:HG13	2.05	0.56
1:A:582:ILE:HG21	1:A:639:LEU:CD2	2.35	0.56
2:D:3007:PRO:HB2	2:D:3010:PHE:CE2	2.40	0.56
2:D:2943:ALA:HA	2:D:3103:MET:HE1	1.87	0.56
1:A:324:ILE:HG22	1:A:326:ASP:H	1.70	0.56
1:A:839:ARG:HG2	1:A:924:ALA:HB1	1.87	0.56
1:A:647:GLN:HE22	1:A:650:ARG:HH21	1.53	0.56
2:B:1760:THR:CG2	2:B:1824:ILE:HG12	2.36	0.56
1:C:1407:ALA:O	1:C:1416:PHE:HD1	1.87	0.56
2:B:1800:VAL:HG22	2:B:1801:HIS:N	2.21	0.56
1:A:1557:ASN:HD22	1:A:1597:PHE:HZ	1.53	0.56
1:C:162:ALA:HB2	1:C:174:GLN:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:250:TRP:HE3	1:A:252:ASP:HB2	1.66	0.56
1:A:373:LEU:HD22	1:A:373:LEU:N	2.20	0.56
2:D:2556:TYR:HD1	2:D:2557:SER:O	1.87	0.56
1:A:998:ALA:O	1:A:1007:PHE:HD1	1.88	0.56
1:C:880:LYS:N	1:C:880:LYS:HD3	2.19	0.56
2:B:2811:PHE:CE2	2:B:2823:ALA:HB1	2.40	0.56
1:A:255:ILE:HG23	1:A:255:ILE:O	2.04	0.56
2:B:1784:ILE:HG23	2:B:1785:PRO:HD2	1.87	0.56
2:B:2390:LEU:N	2:B:2390:LEU:HD22	2.20	0.56
1:C:502:LEU:O	1:C:505:ARG:HB2	2.04	0.56
1:A:234:MET:CE	1:A:241:LEU:HB2	2.35	0.56
1:A:83:LYS:O	1:A:84:ARG:HB3	2.05	0.56
2:B:1874:PHE:CD2	2:B:1878:HIS:CE1	2.82	0.56
2:B:3342:LEU:HA	2:B:3375:PHE:HB3	1.87	0.56
2:B:3318:VAL:HG13	2:B:3394:HIS:O	2.05	0.56
2:D:1988:VAL:HG12	2:D:2047:ILE:CG1	2.18	0.56
2:D:1988:VAL:HG21	2:D:2005:PHE:CE1	2.40	0.56
1:C:486:ILE:HD11	1:C:688:PRO:CG	2.18	0.56
1:A:162:ALA:O	1:A:171:PHE:HD1	1.89	0.56
2:D:1760:THR:CG2	2:D:1824:ILE:HG12	2.36	0.56
2:D:2948:TYR:CD2	2:D:2949:PRO:HA	2.40	0.56
2:D:3024:ILE:HD12	2:D:3098:PHE:CG	2.39	0.56
1:C:1575:HIS:HB3	2:D:2783:HIS:CB	2.36	0.56
1:C:307:PHE:CZ	1:C:320:VAL:HG21	2.40	0.56
2:D:2535:TYR:CZ	2:D:2698:TRP:HH2	2.22	0.56
1:C:1262:ILE:HD12	1:C:1353:PRO:CB	2.36	0.56
1:C:1453:LEU:HD12	1:C:1453:LEU:N	2.20	0.56
1:C:1242:HIS:CE1	1:C:1476:TYR:OH	2.59	0.56
1:A:73:VAL:HG23	1:A:74:VAL:N	2.21	0.56
1:A:1363:ASN:CB	1:A:1365:ARG:NH2	2.69	0.56
1:C:77:GLU:HA	1:C:80:LEU:CD2	2.35	0.56
1:C:629:PHE:CZ	1:C:633:HIS:NE2	2.72	0.56
1:A:462:HIS:HD2	1:A:480:CYS:CB	2.19	0.56
1:C:895:VAL:O	1:C:895:VAL:HG13	2.05	0.56
1:A:896:HIS:HA	1:A:901:PHE:HD2	1.71	0.56
2:D:2624:VAL:HG22	2:D:2625:ASP:N	2.20	0.56
1:A:1112:PHE:HB2	1:A:1114:TYR:CE2	2.41	0.56
2:D:2390:LEU:N	2:D:2390:LEU:HD22	2.20	0.56
1:A:1300:GLN:HE21	1:A:1305:PRO:HA	1.70	0.56
1:A:1192:LYS:HZ1	1:A:1235:ILE:CD1	2.17	0.56
2:D:2544:ASN:HA	2:D:2546:PRO:HD3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3194:LEU:HD12	2:D:3194:LEU:N	2.20	0.56
1:A:307:PHE:CZ	1:A:320:VAL:HG21	2.40	0.56
1:C:572:PHE:CZ	1:C:848:GLU:HG3	2.41	0.56
2:B:2182:ILE:HG22	2:B:2187:THR:HG23	1.88	0.56
2:B:1708:PRO:HD3	2:B:1795:PHE:CZ	2.40	0.56
1:C:579:PHE:CD2	1:C:707:PHE:CE2	2.94	0.56
1:A:77:GLU:HA	1:A:80:LEU:CD2	2.35	0.56
1:A:1242:HIS:CE1	1:A:1476:TYR:OH	2.59	0.56
1:A:1262:ILE:HD12	1:A:1353:PRO:CB	2.36	0.56
1:A:1277:PHE:HD2	1:A:1373:PRO:CB	2.18	0.56
1:C:205:ILE:HG13	1:C:206:PHE:N	2.19	0.56
1:C:67:HIS:CG	1:C:264:PRO:HB3	2.40	0.56
1:C:73:VAL:HG23	1:C:74:VAL:N	2.21	0.56
1:C:1188:ASP:OD1	2:D:2389:LEU:HD12	2.03	0.56
2:B:1730:PHE:CD1	2:B:1731:PRO:HD3	2.40	0.56
1:C:629:PHE:CD1	1:C:633:HIS:CE1	2.83	0.56
1:C:901:PHE:CB	1:C:902:PRO:HD3	2.35	0.56
1:A:901:PHE:CB	1:A:902:PRO:HD3	2.35	0.56
2:D:3082:ILE:HB	2:D:3090:MET:HE1	1.87	0.56
2:D:3144:PHE:CA	2:D:3149:VAL:HG11	2.35	0.56
2:B:3007:PRO:HB2	2:B:3010:PHE:CE2	2.40	0.56
2:B:3144:PHE:CA	2:B:3149:VAL:HG11	2.35	0.56
1:C:1129:LEU:O	1:C:1133:LEU:HG	2.05	0.56
1:C:991:ILE:CD1	1:C:995:VAL:HG13	2.35	0.56
1:C:1557:ASN:HD22	1:C:1597:PHE:HZ	1.53	0.56
2:D:2217:VAL:HG12	2:D:2218:ARG:N	2.21	0.56
2:D:3081:LEU:HD22	2:D:3081:LEU:N	2.20	0.56
2:D:2741:ASP:CG	2:D:2743:ILE:HG22	2.25	0.56
2:D:1987:THR:HG22	2:D:2048:THR:HG22	1.86	0.56
2:D:2173:TRP:HB2	2:D:2289:ILE:CG2	2.36	0.56
2:B:2366:MET:CB	2:B:2371:ILE:HG22	2.35	0.56
1:C:1084:PHE:HA	1:C:1091:ASN:HD22	1.71	0.56
1:A:1330:ALA:O	1:A:1334:LYS:HG2	2.06	0.56
1:C:896:HIS:HA	1:C:901:PHE:HD2	1.71	0.56
1:A:486:ILE:H	1:A:662:LEU:HD21	1.70	0.56
1:C:322:VAL:HG11	1:C:369:MET:CE	2.36	0.56
2:B:3213:ALA:HB1	2:B:3276:LYS:O	2.06	0.56
2:B:3243:PRO:CG	2:D:3354:PRO:HA	2.36	0.56
2:B:3081:LEU:HD22	2:B:3081:LEU:N	2.20	0.56
2:B:3195:ARG:HH22	2:B:3295:ARG:HH21	1.54	0.56
2:D:2146:PHE:CB	2:D:2147:PRO:HD3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2182:ILE:HG22	2:D:2187:THR:HG23	1.87	0.56
2:D:2170:VAL:HG11	2:D:2288:PHE:HD1	1.69	0.56
2:B:2194:VAL:HG12	2:B:2195:TRP:N	2.20	0.56
1:C:436:VAL:HG23	1:C:526:LEU:CD1	2.36	0.56
1:A:65:PHE:CB	1:A:66:PRO:HD3	2.35	0.56
1:A:1328:GLU:OE2	1:A:1339:ALA:HB1	2.06	0.56
1:A:1453:LEU:N	1:A:1453:LEU:HD12	2.20	0.56
1:C:273:LEU:H	1:C:273:LEU:HD12	1.71	0.56
2:B:3349:PHE:CD1	2:B:3375:PHE:CD1	2.94	0.56
2:D:3052:PHE:CZ	2:D:3056:LEU:HD23	2.40	0.56
1:A:577:ASP:O	1:A:581:GLN:HG3	2.06	0.56
1:C:577:ASP:O	1:C:581:GLN:HG3	2.06	0.56
2:B:3275:LYS:HG3	2:B:3282:LEU:HD11	1.87	0.56
2:B:2322:MET:HE1	2:B:2349:PHE:CE1	2.40	0.56
2:D:2799:LEU:O	2:D:2800:LEU:HD23	2.06	0.56
1:C:391:LEU:HD12	1:C:391:LEU:N	2.20	0.56
2:D:3215:VAL:HA	2:D:3275:LYS:HA	1.88	0.56
2:B:2975:ARG:HD2	2:B:3164:VAL:HG12	1.87	0.56
1:C:301:ALA:HB1	1:C:404:HIS:CB	2.34	0.56
1:C:1124:LEU:CD2	1:C:1128:GLN:HG2	2.35	0.56
1:C:854:ARG:HE	1:C:955:LYS:HD2	1.70	0.56
2:D:3195:ARG:HH22	2:D:3295:ARG:HH21	1.54	0.56
1:A:100:GLN:HG2	1:A:101:LEU:H	1.71	0.56
2:D:2182:ILE:HG22	2:D:2187:THR:CG2	2.36	0.56
2:D:2366:MET:CB	2:D:2371:ILE:HG22	2.36	0.56
2:B:1704:PHE:CE2	2:B:1915:PRO:HB2	2.41	0.56
2:D:1704:PHE:CE2	2:D:1915:PRO:HB2	2.41	0.56
1:C:1277:PHE:HD2	1:C:1373:PRO:CB	2.18	0.56
1:A:526:LEU:HD21	1:A:544:PHE:CD2	2.41	0.56
1:A:700:TYR:HE2	1:A:702:TYR:CZ	2.24	0.56
1:C:210:HIS:O	1:C:213:VAL:HG22	2.06	0.56
2:D:3268:VAL:HG13	2:D:3268:VAL:O	2.04	0.56
1:C:1078:ARG:HB3	2:D:2456:GLU:HA	1.88	0.56
2:B:2493:ASP:HB3	2:B:2506:LYS:CD	2.35	0.56
1:C:1019:HIS:CE1	1:C:1036:THR:HG21	2.41	0.56
2:B:3214:VAL:HG12	2:B:3215:VAL:N	2.21	0.56
1:A:770:LYS:HE2	1:A:770:LYS:HA	1.88	0.56
1:C:35:PHE:HA	1:C:38:ILE:HD12	1.87	0.56
2:B:2822:PHE:HZ	2:B:2825:THR:HG22	1.70	0.56
2:B:2544:ASN:HA	2:B:2546:PRO:HD3	1.87	0.56
1:C:998:ALA:O	1:C:1007:PHE:HD1	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2804:LYS:HG2	2:D:2804:LYS:O	2.06	0.56
2:D:2121:PHE:CE2	2:D:2328:PRO:HB2	2.41	0.56
2:D:2273:TYR:CD2	2:D:2280:TYR:CE1	2.94	0.56
1:C:1262:ILE:CD1	1:C:1353:PRO:HB3	2.36	0.56
1:A:147:VAL:HG13	1:A:147:VAL:O	2.07	0.56
1:A:21:ALA:HA	1:A:24:ARG:CD	2.35	0.56
2:B:2697:PHE:CZ	2:B:2701:HIS:NE2	2.72	0.56
1:A:424:VAL:O	1:A:509:ILE:CG2	2.54	0.56
2:B:1693:HIS:HD2	2:D:2101:TYR:HB3	0.86	0.56
2:D:2946:HIS:HB3	2:D:3097:ALA:HB2	1.88	0.56
2:B:2627:THR:HG23	2:B:2681:THR:HG21	1.85	0.56
2:B:3033:ARG:HB2	2:B:3082:ILE:O	2.06	0.56
1:C:1604:LYS:HZ1	1:C:1647:LEU:HD23	1.68	0.56
1:A:322:VAL:HG11	1:A:369:MET:CE	2.36	0.56
1:A:391:LEU:N	1:A:391:LEU:HD12	2.20	0.56
1:C:162:ALA:O	1:C:171:PHE:HD1	1.89	0.56
2:D:2822:PHE:HZ	2:D:2825:THR:HG22	1.70	0.56
2:D:3006:LEU:N	2:D:3006:LEU:HD12	2.21	0.56
2:D:2640:ARG:HB3	2:D:2643:GLU:HB2	1.88	0.56
1:C:592:CYS:HB3	1:C:775:ARG:HH12	1.70	0.56
2:D:2867:ARG:HG3	2:D:2867:ARG:O	2.04	0.56
2:D:2168:VAL:HG22	2:D:2169:ALA:H	1.71	0.55
2:B:2083:LYS:CG	2:B:2169:ALA:HB2	2.27	0.55
1:C:1280:ILE:CA	1:C:1334:LYS:HD2	2.36	0.55
1:A:19:LEU:CD1	1:A:85:ARG:HD3	2.36	0.55
1:C:122:TYR:CE2	1:C:123:TRP:CD1	2.95	0.55
1:C:183:HIS:CE1	1:C:194:MET:CE	2.90	0.55
1:C:234:MET:HE1	1:C:241:LEU:HD23	1.86	0.55
1:C:19:LEU:CD1	1:C:85:ARG:HD3	2.36	0.55
1:C:1075:THR:HG23	1:C:1076:SER:N	2.21	0.55
2:B:3045:PHE:HD1	2:B:3182:HIS:HE2	1.51	0.55
2:B:1757:TRP:CE3	2:B:1759:TRP:CZ2	2.95	0.55
2:B:1770:LEU:HD21	2:B:1876:ILE:CG1	2.34	0.55
1:A:1019:HIS:CE1	1:A:1036:THR:HG21	2.41	0.55
1:A:594:PHE:CE2	1:A:598:PHE:HB2	2.39	0.55
2:D:3010:PHE:CZ	2:D:3101:TYR:HD1	2.24	0.55
1:C:1567:PHE:HD1	1:C:1583:ALA:HA	1.69	0.55
1:A:238:GLN:HE21	1:A:820:VAL:HG12	1.67	0.55
2:B:2605:PHE:HE2	2:B:2614:PHE:CD2	2.24	0.55
1:C:1059:LEU:HD13	1:C:1059:LEU:O	2.06	0.55
2:D:2519:LEU:HD12	2:D:2605:PHE:CZ	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1054:ALA:O	1:C:1057:GLN:HG2	2.06	0.55
1:C:458:THR:HA	1:C:461:TYR:CD1	2.41	0.55
1:A:891:PHE:CB	1:A:1183:MET:HG2	2.36	0.55
1:A:1545:ARG:HB2	1:A:1545:ARG:NH1	2.20	0.55
1:C:1103:PHE:O	1:C:1106:PHE:HD1	1.89	0.55
2:D:2243:ALA:CA	2:D:2246:GLN:HE21	2.17	0.55
2:D:2245:GLU:HG3	2:D:2245:GLU:O	2.06	0.55
2:D:2143:MET:HE3	2:D:2321:LEU:CD1	2.35	0.55
1:C:724:GLN:CD	1:C:828:LYS:HE2	2.22	0.55
2:B:2140:ILE:CG2	2:B:2146:PHE:HA	2.31	0.55
2:B:2277:SER:O	2:B:2281:ALA:HB2	2.07	0.55
2:B:2173:TRP:HB2	2:B:2289:ILE:CG2	2.36	0.55
1:A:881:TRP:CE3	1:A:1090:ILE:HD12	2.42	0.55
1:C:881:TRP:CE3	1:C:1090:ILE:HD12	2.42	0.55
1:C:1278:LEU:C	1:C:1278:LEU:HD12	2.26	0.55
1:C:1316:PHE:CB	1:C:1317:PRO:HD3	2.35	0.55
1:C:1321:ARG:HH22	1:C:1466:GLN:NE2	2.04	0.55
1:A:273:LEU:HD12	1:A:273:LEU:H	1.71	0.55
1:A:572:PHE:HZ	1:A:848:GLU:HG3	1.71	0.55
1:C:147:VAL:O	1:C:147:VAL:HG13	2.07	0.55
1:C:74:VAL:HG21	1:C:273:LEU:CD2	2.18	0.55
2:D:1671:ILE:CD1	2:D:1770:LEU:HD11	2.36	0.55
2:B:1671:ILE:CD1	2:B:1770:LEU:HD11	2.36	0.55
1:C:1160:ASN:HD22	1:C:1168:CYS:CB	2.15	0.55
2:B:3353:VAL:CG1	2:B:3377:THR:HG21	2.35	0.55
1:C:1019:HIS:HA	1:C:1030:MET:HG3	1.85	0.55
1:A:602:HIS:ND1	1:A:636:VAL:HG21	2.19	0.55
1:C:324:ILE:HG22	1:C:326:ASP:H	1.70	0.55
2:B:1953:ALA:CB	2:B:1955:TRP:HZ3	2.17	0.55
1:A:1192:LYS:HZ2	1:A:1235:ILE:CD1	2.14	0.55
1:A:964:ILE:CD1	1:A:1035:TYR:HD1	2.18	0.55
2:B:1742:GLN:HE22	2:B:1945:TYR:HB3	1.71	0.55
1:C:33:ILE:N	1:C:33:ILE:HD12	2.22	0.55
2:D:2647:TYR:HD1	2:D:2774:HIS:CE1	2.23	0.55
1:A:1437:TYR:CD2	1:A:1444:TYR:CE1	2.94	0.55
2:D:2975:ARG:HH12	2:D:3167:SER:HB3	1.68	0.55
2:B:2760:GLU:CB	2:B:2763:ARG:HD2	2.34	0.55
2:D:3338:PRO:HB2	2:D:3379:SER:HB3	1.87	0.55
1:C:891:PHE:CB	1:C:1183:MET:HG2	2.36	0.55
1:A:458:THR:HA	1:A:461:TYR:CD1	2.41	0.55
2:B:2804:LYS:HG2	2:B:2804:LYS:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:572:PHE:HZ	1:C:848:GLU:HG3	1.71	0.55
1:A:703:GLU:HG3	1:A:704:ASP:N	2.22	0.55
2:B:2206:ARG:HD3	2:B:2216:THR:OG1	2.06	0.55
1:C:1328:GLU:OE2	1:C:1339:ALA:HB1	2.06	0.55
1:C:676:LEU:HD23	1:C:1365:ARG:HA	1.89	0.55
1:C:1462:TRP:O	1:C:1466:GLN:HG3	2.06	0.55
1:A:182:ILE:HD12	1:A:209:HIS:HE1	1.71	0.55
1:A:267:LEU:C	1:A:267:LEU:HD13	2.26	0.55
1:A:1462:TRP:O	1:A:1466:GLN:HG3	2.06	0.55
1:A:440:ARG:CA	1:A:544:PHE:HE2	2.18	0.55
1:A:579:PHE:CD2	1:A:707:PHE:CE2	2.94	0.55
1:C:65:PHE:CB	1:C:66:PRO:HD3	2.35	0.55
2:D:3349:PHE:CD1	2:D:3375:PHE:CD1	2.94	0.55
1:C:1161:ILE:HD12	1:C:1161:ILE:N	2.21	0.55
2:D:2930:LEU:HD23	2:D:2939:TYR:HD1	1.71	0.55
1:C:322:VAL:HG23	1:C:379:VAL:CG1	2.36	0.55
1:C:487:PHE:CB	1:C:488:PRO:HD3	2.36	0.55
2:B:2996:TYR:HB2	2:B:3108:SER:HA	1.89	0.55
1:A:352:TRP:CZ3	1:A:354:PHE:CE2	2.95	0.55
2:B:2036:ARG:H	2:B:2039:GLU:HG3	1.71	0.55
1:C:1345:TRP:HH2	1:C:1426:ALA:HB1	1.71	0.55
1:C:373:LEU:HD22	1:C:373:LEU:N	2.20	0.55
1:A:1295:SER:HA	1:A:1296:PRO:C	2.24	0.55
1:A:99:THR:HG23	1:A:100:GLN:N	2.21	0.55
2:D:2657:THR:OG1	2:D:2720:LEU:HD13	2.06	0.55
2:D:2277:SER:O	2:D:2281:ALA:HB2	2.06	0.55
2:D:1860:TYR:CD2	2:D:1867:TYR:CE1	2.95	0.55
1:C:424:VAL:O	1:C:509:ILE:CG2	2.54	0.55
1:A:1262:ILE:CD1	1:A:1353:PRO:HB3	2.36	0.55
1:A:1280:ILE:CA	1:A:1334:LYS:HD2	2.36	0.55
1:A:1431:LEU:CD1	1:A:1450:VAL:HG11	2.36	0.55
1:A:436:VAL:HG23	1:A:526:LEU:CD1	2.36	0.55
1:C:182:ILE:HD12	1:C:209:HIS:HE1	1.71	0.55
1:C:210:HIS:CA	1:C:213:VAL:HG22	2.33	0.55
1:C:83:LYS:O	1:C:84:ARG:HB3	2.05	0.55
1:C:5:ARG:HG2	1:C:89:LEU:HD23	1.89	0.55
2:D:1757:TRP:CE3	2:D:1759:TRP:CZ2	2.95	0.55
2:D:1823:PHE:CZ	2:D:1853:TRP:CZ3	2.95	0.55
2:B:1757:TRP:CZ3	2:B:1873:LEU:HD21	2.41	0.55
2:B:1730:PHE:CB	2:B:1731:PRO:HD3	2.36	0.55
2:B:3205:VAL:HG13	2:B:3291:ILE:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:759:THR:HG22	1:A:760:PHE:N	2.22	0.55
2:B:1988:VAL:HG21	2:B:2005:PHE:CE1	2.40	0.55
1:C:759:THR:HG22	1:C:760:PHE:N	2.22	0.55
1:C:1568:VAL:HG12	1:C:1622:PHE:HB2	1.88	0.55
1:A:849:GLU:O	1:A:921:TYR:HE1	1.89	0.55
1:A:1406:TYR:HA	1:A:1543:ARG:HH12	1.71	0.55
1:A:782:THR:O	1:A:786:LYS:HG3	2.07	0.55
2:D:3275:LYS:HG3	2:D:3282:LEU:HD11	1.87	0.55
2:D:1819:HIS:CG	2:D:1820:HIS:N	2.74	0.55
2:B:2596:THR:HG21	2:B:2773:PHE:HZ	1.69	0.55
1:C:1437:TYR:CD2	1:C:1444:TYR:CE1	2.94	0.55
2:D:2975:ARG:HD2	2:D:3164:VAL:HG12	1.87	0.55
2:D:2605:PHE:HE2	2:D:2614:PHE:CD2	2.24	0.55
2:B:3024:ILE:HG12	2:B:3029:GLN:O	2.07	0.55
2:B:1946:ILE:HG12	2:B:1947:TYR:H	1.71	0.55
2:D:2176:THR:CG2	2:D:2236:LEU:HD12	2.17	0.55
2:D:2173:TRP:HB2	2:D:2289:ILE:HG21	1.88	0.55
2:B:2106:LEU:HD11	2:B:2161:LEU:HD13	1.88	0.55
2:B:2244:LEU:HD13	2:B:2244:LEU:O	2.06	0.55
2:B:2258:VAL:HG21	2:B:2416:ILE:HG23	1.87	0.55
2:D:1741:PHE:CZ	2:D:1875:TYR:CE1	2.94	0.55
1:C:1427:LEU:C	1:C:1427:LEU:HD13	2.27	0.55
1:C:440:ARG:CA	1:C:544:PHE:HE2	2.18	0.55
1:A:210:HIS:CA	1:A:213:VAL:HG22	2.33	0.55
2:B:1857:LYS:HD3	2:B:2050:TYR:O	2.06	0.55
1:A:1262:ILE:HA	1:A:1265:LEU:CD2	2.34	0.55
1:A:1277:PHE:CZ	1:A:1286:TYR:CE1	2.95	0.55
1:A:1353:PRO:HD2	1:A:1356:ILE:HD11	1.88	0.55
1:C:70:ARG:NH2	1:C:270:TYR:HB3	2.21	0.55
1:C:839:ARG:HG2	1:C:924:ALA:HB1	1.87	0.55
2:D:1850:VAL:O	2:D:1854:VAL:HG22	2.06	0.55
1:A:1160:ASN:HD22	1:A:1168:CYS:CB	2.15	0.55
2:B:1732:GLN:HG2	2:B:1934:PRO:HB3	1.89	0.55
2:B:3010:PHE:CZ	2:B:3101:TYR:HD1	2.24	0.55
1:C:782:THR:O	1:C:786:LYS:HG3	2.07	0.55
2:D:2322:MET:CE	2:D:2349:PHE:CE1	2.89	0.55
2:D:3213:ALA:HB1	2:D:3276:LYS:O	2.06	0.55
1:A:1028:TYR:CD2	1:A:1035:TYR:CE1	2.95	0.55
1:A:248:PHE:HB3	1:A:258:THR:CG2	2.34	0.55
1:C:1500:ASP:O	1:C:1503:THR:HG22	2.07	0.55
2:B:3200:VAL:CG1	2:B:3255:THR:HA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2209:VAL:HG13	2:B:2209:VAL:O	2.06	0.55
2:B:2170:VAL:HB	2:B:2288:PHE:HE1	1.70	0.55
2:B:2369:HIS:CD2	2:B:2373:LYS:HD2	2.42	0.55
2:B:1860:TYR:CD2	2:B:1867:TYR:CE1	2.95	0.55
2:D:1704:PHE:HB2	2:D:1737:TYR:HE1	1.71	0.55
1:C:881:TRP:CE3	1:C:885:PRO:HB3	2.41	0.55
1:C:1363:ASN:CB	1:C:1365:ARG:NH2	2.69	0.55
1:C:509:ILE:CG2	1:C:510:GLY:H	2.20	0.55
1:C:526:LEU:HD21	1:C:544:PHE:CD2	2.41	0.55
1:A:210:HIS:O	1:A:213:VAL:HG22	2.05	0.55
1:A:1476:TYR:CD2	1:A:1477:ARG:CB	2.88	0.55
1:C:208:LEU:HD12	1:C:208:LEU:N	2.22	0.55
1:C:21:ALA:HA	1:C:24:ARG:CD	2.35	0.55
1:C:94:TRP:CD2	1:C:182:ILE:HG12	2.42	0.55
1:A:746:PHE:HB3	1:A:756:LYS:HA	1.89	0.55
2:D:2909:ARG:HB3	2:D:2994:ILE:O	2.07	0.55
1:C:582:ILE:HG21	1:C:639:LEU:CD2	2.35	0.55
1:C:1547:ASP:HB3	1:C:1648:PHE:HZ	1.72	0.55
1:C:1646:ILE:HG21	2:D:1906:VAL:HG22	1.88	0.55
1:C:1406:TYR:HA	1:C:1543:ARG:NH1	2.22	0.55
1:C:647:GLN:HE22	1:C:650:ARG:HH21	1.53	0.55
1:C:749:THR:HG23	1:C:751:ASP:HB2	1.86	0.55
2:D:2596:THR:HG21	2:D:2773:PHE:HZ	1.69	0.55
2:B:3142:HIS:CG	2:B:3146:TYR:HE2	2.25	0.55
1:A:1059:LEU:O	1:A:1059:LEU:HD13	2.07	0.55
2:B:1677:ARG:O	2:B:1680:LEU:HB3	2.07	0.55
2:D:2106:LEU:HD11	2:D:2161:LEU:HD13	1.88	0.55
2:D:2157:PHE:HB2	2:D:2288:PHE:HE2	1.63	0.55
2:D:2362:GLU:OE2	2:D:2365:GLY:HA2	2.07	0.55
2:B:2273:TYR:CD2	2:B:2280:TYR:CE1	2.94	0.55
2:B:1695:SER:CB	2:D:2195:TRP:HD1	2.19	0.55
1:A:122:TYR:CE2	1:A:123:TRP:CD1	2.95	0.55
1:A:5:ARG:HG2	1:A:89:LEU:HD23	1.89	0.55
1:C:267:LEU:C	1:C:267:LEU:HD13	2.26	0.55
2:B:2946:HIS:HB3	2:B:3097:ALA:HB2	1.88	0.55
2:B:1823:PHE:CZ	2:B:1853:TRP:CZ3	2.95	0.55
2:D:1730:PHE:CB	2:D:1731:PRO:HD3	2.36	0.55
1:C:302:ARG:HB2	1:C:304:PHE:CE1	2.42	0.55
2:D:2427:TRP:CZ3	2:D:2429:TYR:CE2	2.95	0.55
1:C:1306:ILE:HG22	1:C:1307:SER:N	2.22	0.55
1:A:33:ILE:HD12	1:A:33:ILE:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2136:VAL:HG11	2:D:2425:MET:SD	2.46	0.55
2:B:3338:PRO:HB2	2:B:3379:SER:HB3	1.87	0.55
1:C:1202:LEU:HD12	1:C:1204:LEU:HD12	1.88	0.55
1:C:100:GLN:HG2	1:C:101:LEU:H	1.71	0.55
2:D:2540:ALA:HB1	2:D:2547:MET:SD	2.47	0.55
1:C:705:LEU:N	1:C:705:LEU:HD22	2.22	0.55
2:D:2179:ILE:CD1	2:D:2182:ILE:HD13	2.37	0.55
2:D:2307:LYS:CD	2:D:2369:HIS:HA	2.37	0.55
2:D:2369:HIS:CD2	2:D:2373:LYS:HD2	2.42	0.55
2:B:2101:TYR:HB3	2:D:1693:HIS:CG	2.42	0.55
2:B:2156:GLN:HA	2:B:2156:GLN:HE21	1.72	0.55
2:B:2244:LEU:HD12	2:B:2375:ILE:HG21	1.88	0.55
2:B:2258:VAL:HG13	2:B:2259:MET:N	2.22	0.55
2:B:1737:TYR:CE2	2:B:1741:PHE:CE1	2.95	0.55
1:A:881:TRP:CE3	1:A:885:PRO:HB3	2.42	0.55
1:C:1242:HIS:ND1	1:C:1476:TYR:OH	2.40	0.55
1:A:1321:ARG:HH22	1:A:1466:GLN:NE2	2.04	0.55
1:A:1473:LYS:O	1:A:1473:LYS:HG3	2.06	0.55
1:C:234:MET:CE	1:C:241:LEU:HB2	2.35	0.55
1:C:70:ARG:HB2	1:C:267:LEU:HD21	1.89	0.55
2:D:1732:GLN:HG2	2:D:1934:PRO:HB3	1.89	0.55
1:A:1075:THR:HG23	1:A:1076:SER:N	2.21	0.55
1:C:802:ILE:HD11	1:C:815:ILE:CG1	2.35	0.55
2:D:2646:PHE:CE1	2:D:2676:TRP:CZ3	2.95	0.55
1:C:930:TRP:CZ3	1:C:991:ILE:HD13	2.41	0.55
2:B:2799:LEU:O	2:B:2800:LEU:HD23	2.06	0.55
2:B:2127:LYS:NZ	2:B:2131:SER:HB2	2.22	0.55
1:A:227:ARG:O	1:A:228:ASN:HB2	2.07	0.55
1:A:1054:ALA:O	1:A:1057:GLN:HG2	2.06	0.55
2:B:2653:ALA:HB1	2:B:2662:PHE:CE1	2.41	0.55
2:B:3009:PHE:CE1	2:B:3019:PHE:CG	2.95	0.55
1:A:49:VAL:HB	1:A:52:ASP:OD1	2.07	0.55
1:A:864:LYS:HA	1:A:864:LYS:HE2	1.87	0.55
2:D:2156:GLN:HE21	2:D:2156:GLN:HA	1.72	0.55
2:B:2182:ILE:HG22	2:B:2187:THR:CG2	2.36	0.55
2:B:2245:GLU:O	2:B:2245:GLU:HG3	2.06	0.55
2:D:1737:TYR:CE2	2:D:1741:PHE:CE1	2.95	0.55
2:B:2538:ILE:CB	2:B:2577:MET:SD	2.95	0.55
1:C:1431:LEU:CD1	1:C:1450:VAL:HG11	2.36	0.55
1:C:700:TYR:HE2	1:C:702:TYR:CZ	2.24	0.55
1:A:70:ARG:HB2	1:A:267:LEU:HD21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1278:LEU:HD12	1:A:1278:LEU:C	2.26	0.55
2:D:3287:LEU:HB2	2:D:3288:PRO:C	2.28	0.55
2:D:3327:MET:CG	2:D:3328:PHE:H	2.15	0.55
1:A:1648:PHE:CB	2:B:1903:ASN:O	2.48	0.55
2:B:2401:PHE:HE1	2:B:2460:ILE:HG21	1.71	0.55
2:B:1913:LEU:HD13	2:B:1934:PRO:HD3	1.88	0.55
2:B:2930:LEU:HD23	2:B:2939:TYR:HD1	1.72	0.55
2:B:2909:ARG:HB3	2:B:2994:ILE:O	2.07	0.55
1:C:352:TRP:CZ3	1:C:354:PHE:CE2	2.95	0.55
2:B:2500:ALA:HB1	2:B:3131:SER:CB	2.36	0.55
2:D:3142:HIS:CG	2:D:3146:TYR:HE2	2.25	0.55
2:D:3024:ILE:HG12	2:D:3029:GLN:O	2.07	0.55
1:A:1163:THR:HG22	1:A:1164:ASP:N	2.22	0.55
1:C:1163:THR:HG22	1:C:1164:ASP:N	2.22	0.55
2:D:2243:ALA:HB2	2:D:2255:GLN:HG2	1.85	0.55
2:D:2252:PHE:CE2	2:D:2256:PHE:CD1	2.95	0.55
2:D:2258:VAL:HG21	2:D:2416:ILE:HG23	1.87	0.55
2:B:2153:TYR:CE2	2:B:2157:PHE:CE1	2.95	0.55
2:B:1704:PHE:HB2	2:B:1737:TYR:HE1	1.71	0.55
2:B:1718:LYS:O	2:B:1718:LYS:HG3	2.06	0.55
1:C:1083:PRO:C	1:C:1086:LEU:HD13	2.28	0.55
1:C:874:ALA:HB1	1:C:881:TRP:HE1	1.71	0.55
1:C:1310:VAL:HG22	1:C:1319:TRP:HB2	1.89	0.55
1:C:1473:LYS:HG3	1:C:1473:LYS:O	2.06	0.55
1:A:427:ASN:HB3	1:A:513:TYR:CE2	2.42	0.55
1:C:1112:PHE:HB2	1:C:1114:TYR:CE2	2.41	0.55
2:D:2402:GLN:NE2	2:D:2412:HIS:HA	2.22	0.55
2:B:2402:GLN:NE2	2:B:2412:HIS:HA	2.22	0.55
1:A:802:ILE:HD11	1:A:815:ILE:CG1	2.35	0.55
1:A:402:VAL:CG2	1:A:657:HIS:O	2.52	0.55
1:C:1345:TRP:CZ3	1:C:1426:ALA:HB3	2.42	0.55
2:B:1760:THR:HG21	2:B:1952:PHE:CZ	2.42	0.55
2:B:2646:PHE:CE1	2:B:2676:TRP:CZ3	2.95	0.55
1:C:385:SER:HB2	1:C:391:LEU:HD11	1.89	0.55
1:C:964:ILE:CD1	1:C:1035:TYR:HD1	2.18	0.55
1:C:162:ALA:HB2	1:C:174:GLN:CB	2.37	0.55
2:D:3161:PRO:O	2:D:3165:VAL:HG13	2.07	0.55
2:D:2206:ARG:NH2	2:D:2218:ARG:HG2	2.16	0.55
1:C:515:ASP:O	1:C:518:GLU:HG2	2.07	0.55
2:D:3009:PHE:CE1	2:D:3019:PHE:CG	2.95	0.55
2:D:2209:VAL:O	2:D:2209:VAL:HG13	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2121:PHE:CE2	2:B:2328:PRO:HB2	2.41	0.54
2:B:2362:GLU:OE2	2:B:2365:GLY:HA2	2.07	0.54
2:B:1741:PHE:CZ	2:B:1875:TYR:CE1	2.94	0.54
2:D:1914:LYS:HG2	2:D:1918:PHE:HE1	1.71	0.54
1:C:1361:TYR:CD2	1:C:1363:ASN:HB3	2.42	0.54
2:D:1857:LYS:HD3	2:D:2050:TYR:O	2.06	0.54
1:C:446:PHE:HB2	1:C:505:ARG:NE	2.22	0.54
1:A:183:HIS:CE1	1:A:194:MET:CE	2.90	0.54
1:A:1242:HIS:ND1	1:A:1476:TYR:OH	2.40	0.54
1:A:442:ALA:HB1	1:A:505:ARG:HB3	1.90	0.54
1:A:509:ILE:CG2	1:A:510:GLY:H	2.20	0.54
2:D:1672:THR:HG23	2:D:1673:GLN:N	2.23	0.54
2:D:1852:THR:HG23	2:D:1853:TRP:N	2.22	0.54
1:A:1161:ILE:N	1:A:1161:ILE:HD12	2.21	0.54
1:C:462:HIS:HD2	1:C:480:CYS:CB	2.19	0.54
1:C:895:VAL:HG23	1:C:898:MET:HB2	1.88	0.54
2:D:2996:TYR:HB2	2:D:3108:SER:HA	1.89	0.54
2:B:2680:LEU:HD12	2:B:2681:THR:CA	2.38	0.54
1:C:746:PHE:HB3	1:C:756:LYS:HA	1.89	0.54
1:C:1549:VAL:O	1:C:1607:ILE:HG12	2.07	0.54
2:B:2322:MET:CE	2:B:2349:PHE:CE1	2.89	0.54
1:A:1345:TRP:HH2	1:A:1426:ALA:HB1	1.71	0.54
2:B:2646:PHE:CE1	2:B:2676:TRP:HZ3	2.25	0.54
1:A:128:ILE:HG22	1:A:131:LEU:H	1.72	0.54
2:D:3214:VAL:HG12	2:D:3215:VAL:N	2.21	0.54
2:B:3020:PHE:O	2:B:3021:LYS:HG3	2.07	0.54
2:B:3083:GLY:HA3	2:B:3091:SER:H	1.72	0.54
2:D:1742:GLN:HE22	2:D:1945:TYR:HB3	1.71	0.54
2:D:1953:ALA:CB	2:D:1955:TRP:HZ3	2.17	0.54
1:C:493:LEU:HD22	1:C:670:PHE:CZ	2.41	0.54
2:D:2206:ARG:HD3	2:D:2216:THR:OG1	2.06	0.54
1:A:1124:LEU:CD2	1:A:1128:GLN:HG2	2.35	0.54
1:C:99:THR:HG23	1:C:100:GLN:N	2.22	0.54
2:D:2653:ALA:HB1	2:D:2662:PHE:CE1	2.41	0.54
2:D:2467:VAL:HG13	2:D:2468:ASN:N	2.22	0.54
2:B:2386:ALA:O	2:B:2434:LYS:HA	2.07	0.54
2:D:2220:VAL:HG13	2:D:2266:LEU:CD1	2.37	0.54
2:D:2321:LEU:CD2	2:D:2321:LEU:H	2.20	0.54
2:B:2252:PHE:CZ	2:B:2256:PHE:CD1	2.96	0.54
2:B:2224:LEU:CD1	2:B:2266:LEU:HD21	2.38	0.54
1:A:194:MET:HB2	1:A:205:ILE:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1427:LEU:C	1:A:1427:LEU:HD13	2.27	0.54
1:A:1467:ASP:OD2	1:A:1533:ILE:HG13	2.07	0.54
1:A:498:VAL:O	1:A:502:LEU:HD12	2.07	0.54
1:C:210:HIS:HA	1:C:213:VAL:CG2	2.37	0.54
2:D:3287:LEU:HB2	2:D:3288:PRO:HA	1.89	0.54
1:C:839:ARG:HG2	1:C:924:ALA:CB	2.37	0.54
2:D:1809:ASP:HB3	2:D:1812:PHE:HE2	1.72	0.54
1:C:1214:TYR:HE1	1:C:1231:GLN:NE2	2.05	0.54
1:A:745:ILE:HG13	1:A:800:VAL:HG22	1.88	0.54
2:D:2923:LEU:CD1	2:D:2995:PRO:HG3	2.38	0.54
2:B:3010:PHE:HZ	2:B:3104:ILE:HD11	1.71	0.54
1:C:578:LEU:CD1	1:C:604:THR:HG21	2.27	0.54
1:A:1406:TYR:HA	1:A:1543:ARG:NH1	2.22	0.54
1:A:1306:ILE:HG22	1:A:1307:SER:N	2.22	0.54
2:D:2646:PHE:CE1	2:D:2676:TRP:HZ3	2.25	0.54
2:D:1800:VAL:HG22	2:D:1801:HIS:N	2.21	0.54
2:D:1801:HIS:O	2:D:1803:LYS:HG2	2.07	0.54
1:C:770:LYS:HA	1:C:770:LYS:HE2	1.88	0.54
2:B:1676:LYS:CD	2:D:1817:LYS:O	2.51	0.54
1:A:1059:LEU:HD13	1:A:1059:LEU:C	2.28	0.54
2:B:2540:ALA:HB1	2:B:2547:MET:SD	2.47	0.54
2:B:2640:ARG:HB3	2:B:2643:GLU:HB2	1.88	0.54
1:A:515:ASP:O	1:A:518:GLU:HG2	2.07	0.54
1:A:1531:TYR:HD1	1:A:1535:GLN:CD	2.10	0.54
1:A:1528:LEU:O	1:A:1531:TYR:HD2	1.90	0.54
2:D:1677:ARG:O	2:D:1680:LEU:HB3	2.07	0.54
2:D:2153:TYR:CE2	2:D:2157:PHE:CE1	2.95	0.54
2:D:2252:PHE:CZ	2:D:2256:PHE:CD1	2.96	0.54
1:C:1189:ARG:NE	2:D:2430:ASN:O	2.39	0.54
2:B:2179:ILE:CD1	2:B:2182:ILE:HD13	2.37	0.54
2:B:2206:ARG:NH2	2:B:2218:ARG:H	2.06	0.54
2:B:2252:PHE:CE2	2:B:2256:PHE:CD1	2.95	0.54
2:B:1706:ALA:HB3	2:B:1866:HIS:O	2.08	0.54
1:A:1087:SER:CA	1:A:1097:LYS:HZ3	2.03	0.54
1:A:874:ALA:HB1	1:A:881:TRP:HE1	1.71	0.54
1:C:1324:VAL:HG13	1:C:1325:VAL:N	2.22	0.54
1:A:94:TRP:CD2	1:A:182:ILE:HG12	2.42	0.54
1:A:1361:TYR:CD2	1:A:1363:ASN:HB3	2.42	0.54
2:B:1809:ASP:HB3	2:B:1812:PHE:HE2	1.72	0.54
2:B:1850:VAL:HG23	2:B:1851:HIS:N	2.23	0.54
2:B:1850:VAL:O	2:B:1854:VAL:HG22	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1214:TYR:HE1	1:A:1231:GLN:NE2	2.05	0.54
2:D:1913:LEU:HD13	2:D:1934:PRO:HD3	1.88	0.54
2:B:2847:ILE:HD12	2:B:2851:LEU:HD11	1.89	0.54
2:B:2010:GLY:H	2:B:2013:GLU:HG3	1.72	0.54
2:B:3211:THR:HA	2:B:3238:GLY:CA	2.34	0.54
1:C:1028:TYR:CD2	1:C:1035:TYR:CE1	2.95	0.54
2:B:3161:PRO:O	2:B:3165:VAL:HG13	2.07	0.54
1:A:493:LEU:HD22	1:A:670:PHE:CZ	2.41	0.54
1:A:1007:PHE:CZ	1:A:1011:TYR:CD1	2.96	0.54
1:C:49:VAL:HB	1:C:52:ASP:OD1	2.07	0.54
1:A:705:LEU:HD22	1:A:705:LEU:N	2.22	0.54
2:D:2244:LEU:HD12	2:D:2375:ILE:HG21	1.88	0.54
2:B:2146:PHE:CB	2:B:2147:PRO:HD3	2.36	0.54
2:B:2217:VAL:HG12	2:B:2218:ARG:N	2.21	0.54
2:B:2432:LEU:HD22	2:B:2481:THR:HG21	1.90	0.54
2:D:1712:PRO:HG2	2:D:1719:ARG:HA	1.89	0.54
2:D:2577:MET:HG3	2:D:2698:TRP:HE1	0.75	0.54
2:D:2695:PRO:HA	2:D:2698:TRP:CE3	2.43	0.54
1:C:498:VAL:O	1:C:502:LEU:HD12	2.07	0.54
1:C:635:ASN:O	1:C:638:ARG:HB2	2.08	0.54
1:A:164:GLU:HB3	1:A:294:LEU:HD22	1.88	0.54
1:A:192:TYR:CD2	1:A:199:TYR:CE1	2.95	0.54
1:A:501:ALA:O	1:A:505:ARG:HG3	2.08	0.54
1:A:521:THR:HA	1:A:567:PHE:HD1	1.69	0.54
1:A:486:ILE:HD11	1:A:688:PRO:CG	2.18	0.54
1:C:599:GLU:O	1:C:602:HIS:HB3	2.08	0.54
2:D:1906:VAL:HG23	2:D:1907:ASN:N	2.23	0.54
2:D:2634:LEU:O	2:D:2646:PHE:HZ	1.90	0.54
2:B:1819:HIS:CG	2:B:1820:HIS:N	2.74	0.54
1:C:1560:THR:HG22	1:C:1561:SER:H	1.72	0.54
2:D:3038:ALA:HB2	2:D:3081:LEU:HG	1.89	0.54
1:C:232:LYS:HE2	1:C:232:LYS:HA	1.89	0.54
1:A:232:LYS:HE2	1:A:232:LYS:HA	1.89	0.54
2:B:2811:PHE:CD2	2:B:2823:ALA:HB3	2.43	0.54
2:B:2651:LEU:HD21	2:B:2785:LEU:CD2	2.38	0.54
2:B:3006:LEU:HD12	2:B:3006:LEU:N	2.21	0.54
1:C:1556:HIS:CD2	1:C:1598:VAL:HG22	2.43	0.54
2:D:1946:ILE:HG12	2:D:1947:TYR:H	1.71	0.54
1:C:929:ASP:HA	1:C:1048:ASN:ND2	2.22	0.54
2:D:2244:LEU:C	2:D:2244:LEU:HD13	2.28	0.54
2:D:2224:LEU:CD1	2:D:2266:LEU:HD21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2327:ARG:CG	2:D:2331:TYR:HE1	2.21	0.54
2:D:1701:ILE:O	2:D:1704:PHE:HD1	1.90	0.54
1:C:1265:LEU:HD12	1:C:1269:GLU:HB3	1.90	0.54
1:C:1277:PHE:CZ	1:C:1286:TYR:CE1	2.95	0.54
1:C:1353:PRO:HD2	1:C:1356:ILE:HD11	1.88	0.54
1:C:1448:ASP:OD1	1:C:1450:VAL:HG23	2.07	0.54
1:C:1520:GLY:O	1:C:1521:TYR:HD1	1.85	0.54
1:C:542:ASN:HB3	1:C:545:HIS:HB2	1.90	0.54
1:A:676:LEU:HD23	1:A:1365:ARG:HA	1.88	0.54
1:C:192:TYR:CD2	1:C:199:TYR:CE1	2.95	0.54
2:D:3201:PHE:HB2	2:D:3293:VAL:CG2	2.37	0.54
2:B:2971:PRO:HB2	2:B:3113:TRP:CZ3	2.43	0.54
2:B:3287:LEU:HB2	2:B:3288:PRO:C	2.28	0.54
2:D:2971:PRO:HB2	2:D:3113:TRP:CZ3	2.43	0.54
1:A:487:PHE:CB	1:A:488:PRO:HD3	2.36	0.54
1:A:802:ILE:CB	1:A:810:LEU:HD12	2.38	0.54
2:D:2777:THR:HG22	2:D:2780:LYS:HB2	1.89	0.54
2:B:2777:THR:HG22	2:B:2780:LYS:HB2	1.90	0.54
2:B:2619:ILE:HD13	2:B:2690:TYR:HD1	1.73	0.54
1:C:1406:TYR:HA	1:C:1543:ARG:HH12	1.71	0.54
1:A:930:TRP:CD2	1:A:1018:ILE:HD11	2.43	0.54
2:D:1780:THR:HG23	2:D:1781:GLY:N	2.22	0.54
1:A:1560:THR:HG22	1:A:1561:SER:H	1.72	0.54
2:D:1817:LYS:HB2	2:D:1820:HIS:ND1	2.23	0.54
2:B:2136:VAL:HG11	2:B:2425:MET:SD	2.46	0.54
2:D:3338:PRO:CB	2:D:3358:PHE:HE1	2.21	0.54
2:D:2811:PHE:CD2	2:D:2823:ALA:HB3	2.43	0.54
2:D:2503:GLY:HA2	2:D:2588:VAL:HB	1.89	0.54
1:C:703:GLU:HG3	1:C:704:ASP:N	2.22	0.54
1:A:1103:PHE:O	1:A:1106:PHE:HD1	1.89	0.54
2:B:2244:LEU:HD13	2:B:2244:LEU:C	2.28	0.54
2:B:2173:TRP:HB2	2:B:2289:ILE:HG21	1.88	0.54
2:B:2366:MET:HB2	2:B:2371:ILE:CG2	2.37	0.54
2:B:1922:TYR:CD1	2:D:2195:TRP:CB	2.72	0.54
1:A:1083:PRO:C	1:A:1086:LEU:HD13	2.28	0.54
1:A:1092:THR:HG23	1:A:1093:ASP:N	2.23	0.54
1:C:501:ALA:O	1:C:505:ARG:HG3	2.08	0.54
1:A:452:VAL:HG23	1:A:453:ASP:N	2.23	0.54
1:A:517:THR:HG21	1:A:707:PHE:CZ	2.43	0.54
2:D:3326:ILE:HD11	2:D:3393:VAL:HG21	1.89	0.54
2:B:1843:PHE:HE1	2:B:1884:ILE:CG1	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1852:THR:HG23	2:B:1853:TRP:N	2.22	0.54
2:B:3326:ILE:HD11	2:B:3393:VAL:HG21	1.89	0.54
1:C:895:VAL:HG23	1:C:898:MET:HE1	1.86	0.54
1:A:1185:TRP:CZ3	1:A:1187:TYR:CE2	2.95	0.54
1:A:810:LEU:HD11	1:A:814:LEU:CG	2.38	0.54
2:D:2979:ILE:C	2:D:2979:ILE:HD12	2.28	0.54
2:D:3033:ARG:HB2	2:D:3082:ILE:O	2.06	0.54
1:A:906:ARG:HG3	1:A:1050:ASP:OD2	2.08	0.54
1:A:749:THR:HG23	1:A:752:SER:N	2.23	0.54
1:A:1500:ASP:O	1:A:1503:THR:HG22	2.07	0.54
2:B:3038:ALA:HB2	2:B:3081:LEU:HG	1.90	0.54
1:A:1202:LEU:HD12	1:A:1204:LEU:HD12	1.88	0.54
1:A:1155:SER:HB2	1:A:1217:PHE:O	2.07	0.54
1:C:1242:HIS:HB3	1:C:1249:GLN:NE2	2.23	0.54
1:C:1467:ASP:OD2	1:C:1533:ILE:HG13	2.07	0.54
1:A:498:VAL:HG11	1:A:630:TYR:HD1	1.71	0.54
1:C:234:MET:HE2	1:C:241:LEU:HD23	1.88	0.54
2:B:3388:ASN:OD1	2:B:3390:ARG:HG3	2.08	0.54
1:A:302:ARG:HB2	1:A:304:PHE:CE1	2.42	0.54
2:D:2680:LEU:HD12	2:D:2681:THR:CA	2.38	0.54
1:C:930:TRP:CD2	1:C:1018:ILE:HD11	2.43	0.54
2:B:1674:LEU:HD11	2:B:1755:PRO:CG	2.37	0.54
1:C:771:TRP:CZ3	1:C:773:PHE:CE2	2.95	0.54
1:C:1531:TYR:HD1	1:C:1535:GLN:CD	2.10	0.54
1:C:982:GLN:HG3	1:C:982:GLN:O	2.08	0.54
2:B:2220:VAL:HG13	2:B:2266:LEU:CD1	2.37	0.54
2:B:2256:PHE:HZ	2:B:2294:VAL:HG22	1.69	0.54
2:B:2145:THR:OG1	2:B:2321:LEU:HB3	2.08	0.54
2:D:1718:LYS:O	2:D:1718:LYS:HG3	2.06	0.54
2:D:2538:ILE:CB	2:D:2577:MET:SD	2.95	0.54
1:C:881:TRP:CZ3	1:C:885:PRO:HB3	2.43	0.54
1:C:446:PHE:HB2	1:C:505:ARG:HD3	1.89	0.54
1:A:70:ARG:NH2	1:A:270:TYR:HB3	2.21	0.54
1:A:1265:LEU:HD12	1:A:1269:GLU:HB3	1.90	0.54
1:A:542:ASN:HB3	1:A:545:HIS:HB2	1.90	0.54
1:A:560:ARG:HD3	1:A:609:THR:CB	2.23	0.54
1:C:164:GLU:HB3	1:C:294:LEU:HD22	1.88	0.54
2:B:3315:PRO:HB3	2:B:3316:PRO:HD2	1.90	0.54
2:D:3205:VAL:HG13	2:D:3291:ILE:HD12	1.89	0.54
1:A:1549:VAL:O	1:A:1607:ILE:HG12	2.07	0.54
2:D:3315:PRO:HB3	2:D:3316:PRO:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2403:ILE:HG23	2:D:2403:ILE:O	2.08	0.54
2:D:3075:HIS:HB2	2:D:3109:LEU:HD11	1.89	0.54
2:B:1724:VAL:CG1	2:B:1729:THR:HB	2.37	0.54
2:D:1994:ARG:HG3	2:D:1995:THR:N	2.23	0.54
1:A:748:LYS:HD3	1:A:754:GLN:NE2	2.23	0.54
2:B:2923:LEU:CD1	2:B:2995:PRO:HG3	2.38	0.54
2:D:2619:ILE:HD13	2:D:2690:TYR:HD1	1.73	0.54
1:A:839:ARG:HG2	1:A:924:ALA:CB	2.37	0.54
2:B:1780:THR:HG23	2:B:1781:GLY:N	2.22	0.54
2:B:1801:HIS:O	2:B:1803:LYS:HG2	2.07	0.54
1:C:250:TRP:HE3	1:C:252:ASP:HB2	1.66	0.54
2:D:1674:LEU:HD11	2:D:1755:PRO:CG	2.37	0.54
2:D:2651:LEU:HD21	2:D:2785:LEU:CD2	2.38	0.54
1:C:2:ASN:HD22	1:C:276:ASP:HB2	1.72	0.54
2:B:2657:THR:OG1	2:B:2720:LEU:HD13	2.06	0.54
2:D:2792:ASP:OD1	2:D:2891:GLY:O	2.24	0.54
1:A:1084:PHE:HA	1:A:1091:ASN:HD22	1.71	0.54
1:C:698:LEU:CG	1:C:700:TYR:HD1	2.21	0.54
1:A:208:LEU:HD12	1:A:208:LEU:N	2.22	0.54
1:A:439:LEU:HB3	1:A:544:PHE:CZ	2.42	0.54
2:B:3315:PRO:HB3	2:D:3350:LYS:NZ	2.22	0.54
2:D:3124:VAL:HG13	2:D:3124:VAL:O	2.08	0.54
1:A:599:GLU:O	1:A:602:HIS:HB3	2.08	0.54
1:C:745:ILE:HG13	1:C:800:VAL:HG22	1.88	0.54
2:B:3209:ILE:HG12	2:B:3211:THR:O	2.08	0.54
1:A:1394:LEU:HD22	1:A:1394:LEU:H	1.73	0.54
2:B:2634:LEU:O	2:B:2646:PHE:HZ	1.90	0.54
1:A:319:PHE:CD2	1:A:337:LYS:HE3	2.32	0.54
2:D:3200:VAL:CG1	2:D:3255:THR:HA	2.36	0.54
1:C:101:LEU:N	1:C:101:LEU:HD12	2.23	0.54
1:A:101:LEU:HD12	1:A:101:LEU:N	2.23	0.54
1:A:1484:GLN:CD	1:A:1484:GLN:H	2.12	0.54
2:B:2176:THR:CG2	2:B:2236:LEU:HD12	2.17	0.54
2:B:2307:LYS:CD	2:B:2369:HIS:HA	2.37	0.54
2:D:1706:ALA:HB3	2:D:1866:HIS:O	2.08	0.54
2:B:2695:PRO:HA	2:B:2698:TRP:HZ3	1.72	0.54
1:A:724:GLN:HE21	1:A:828:LYS:CG	2.20	0.54
1:C:498:VAL:HG11	1:C:511:ILE:HD11	1.76	0.54
1:C:517:THR:HG21	1:C:707:PHE:CZ	2.43	0.54
1:A:1289:ILE:HA	1:A:1292:PHE:CE2	2.43	0.54
1:A:1476:TYR:CE2	1:A:1477:ARG:HB3	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:676:LEU:N	1:A:676:LEU:CD2	2.71	0.54
1:A:446:PHE:HB2	1:A:505:ARG:NE	2.22	0.54
1:C:194:MET:HB2	1:C:205:ILE:HD11	1.89	0.54
2:D:3388:ASN:OD1	2:D:3390:ARG:HG3	2.08	0.54
1:C:906:ARG:HG3	1:C:1050:ASP:OD2	2.08	0.54
1:A:1618:LEU:HG	2:B:1906:VAL:CG1	2.37	0.54
2:B:1906:VAL:HG23	2:B:1907:ASN:N	2.23	0.54
1:A:1159:PHE:O	1:A:1171:ALA:HB3	2.08	0.54
2:D:1724:VAL:CG1	2:D:1729:THR:HB	2.37	0.54
2:B:3344:SER:HB3	2:B:3348:MET:HB2	1.89	0.54
2:B:1994:ARG:HG3	2:B:1995:THR:N	2.23	0.54
1:C:322:VAL:O	1:C:322:VAL:HG13	2.08	0.54
2:D:2036:ARG:H	2:D:2039:GLU:HG3	1.71	0.54
1:C:128:ILE:HG22	1:C:131:LEU:H	1.72	0.54
2:D:3209:ILE:HG12	2:D:3211:THR:O	2.08	0.54
1:A:385:SER:HB2	1:A:391:LEU:HD11	1.89	0.54
2:D:1760:THR:HG21	2:D:1952:PHE:CZ	2.42	0.54
2:D:2206:ARG:NH2	2:D:2218:ARG:H	2.06	0.54
1:C:1379:ILE:HD13	1:C:1444:TYR:CE1	2.43	0.54
1:C:729:TYR:CD1	1:C:821:ILE:HD11	2.43	0.54
2:B:3027:ILE:O	2:B:3028:ASN:HB2	2.08	0.54
1:C:1528:LEU:O	1:C:1531:TYR:HD2	1.90	0.54
1:A:984:GLU:HG3	1:A:985:PHE:N	2.23	0.54
2:D:2633:LYS:HZ2	2:D:2633:LYS:HA	1.73	0.54
2:B:1701:ILE:O	2:B:1704:PHE:HD1	1.90	0.53
1:C:1289:ILE:O	1:C:1292:PHE:HD2	1.92	0.53
1:C:1318:HIS:CB	1:C:1509:PRO:HB3	2.38	0.53
1:C:452:VAL:HG23	1:C:453:ASP:N	2.23	0.53
1:C:439:LEU:HB3	1:C:544:PHE:CZ	2.42	0.53
1:C:498:VAL:HG11	1:C:630:TYR:HD1	1.72	0.53
1:A:194:MET:HA	1:A:200:THR:OG1	2.08	0.53
1:A:1292:PHE:O	1:A:1308:CYS:HB2	2.08	0.53
1:A:1453:LEU:H	1:A:1453:LEU:HD12	1.73	0.53
1:A:1319:TRP:CA	1:A:1490:LEU:HD21	2.38	0.53
2:B:3082:ILE:HB	2:B:3090:MET:HE1	1.89	0.53
1:C:810:LEU:HD11	1:C:814:LEU:CG	2.38	0.53
1:C:1646:ILE:HG21	2:D:1906:VAL:CG2	2.38	0.53
1:A:322:VAL:HG23	1:A:379:VAL:CG1	2.37	0.53
2:D:2472:LEU:HD13	2:D:2472:LEU:C	2.28	0.53
1:C:747:ILE:HG23	1:C:796:PHE:HD2	1.73	0.53
2:D:2634:LEU:CD1	2:D:2676:TRP:HE3	2.14	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1404:VAL:HA	1:C:1423:LEU:HD22	1.90	0.53
2:D:2127:LYS:NZ	2:D:2131:SER:HB2	2.22	0.53
2:D:1686:LEU:HD12	2:D:1689:MET:HE1	1.90	0.53
2:D:2508:ILE:HD12	2:D:2699:LEU:HD13	1.90	0.53
2:B:3338:PRO:CB	2:B:3358:PHE:HE1	2.21	0.53
1:C:1575:HIS:CB	2:D:2783:HIS:CB	2.87	0.53
2:D:2964:VAL:HG11	2:D:2969:ILE:CD1	2.38	0.53
2:B:2964:VAL:HG11	2:B:2969:ILE:CD1	2.38	0.53
1:C:1542:GLU:HA	1:C:1545:ARG:CD	2.38	0.53
2:B:2467:VAL:HG13	2:B:2468:ASN:N	2.22	0.53
2:D:1946:ILE:HG12	2:D:1947:TYR:N	2.23	0.53
1:A:1556:HIS:CD2	1:A:1598:VAL:HG22	2.43	0.53
2:D:2220:VAL:CG1	2:D:2266:LEU:HD11	2.37	0.53
2:D:2221:GLN:H	2:D:2266:LEU:CD1	2.22	0.53
1:C:724:GLN:HE21	1:C:828:LYS:CG	2.20	0.53
2:B:2427:TRP:CZ3	2:B:2429:TYR:CE2	2.95	0.53
1:C:576:THR:HG22	1:C:579:PHE:HB2	1.90	0.53
1:A:89:LEU:O	1:A:89:LEU:CG	2.55	0.53
1:A:1289:ILE:O	1:A:1292:PHE:HD2	1.91	0.53
1:A:635:ASN:O	1:A:638:ARG:HB2	2.08	0.53
2:D:2389:LEU:HD13	2:D:2478:HIS:HB2	1.90	0.53
2:D:1850:VAL:HG23	2:D:1851:HIS:N	2.23	0.53
1:A:1158:LYS:CB	1:A:1173:GLU:HG2	2.38	0.53
1:A:629:PHE:CD2	1:A:633:HIS:CE1	2.96	0.53
2:B:2624:VAL:HG11	2:B:2683:TYR:CD1	2.44	0.53
2:B:2144:PRO:HG2	2:B:2318:ALA:CB	2.27	0.53
1:C:1394:LEU:H	1:C:1394:LEU:HD22	1.73	0.53
2:D:3083:GLY:HA3	2:D:3091:SER:H	1.72	0.53
1:A:162:ALA:HB2	1:A:174:GLN:CB	2.37	0.53
1:C:1007:PHE:CZ	1:C:1011:TYR:CD1	2.96	0.53
1:A:929:ASP:HA	1:A:1048:ASN:ND2	2.23	0.53
2:B:2200:MET:HG2	2:B:2201:PRO:N	2.23	0.53
2:D:2140:ILE:HG13	2:D:2143:MET:HG3	1.90	0.53
2:D:2258:VAL:HG13	2:D:2259:MET:N	2.22	0.53
2:B:2221:GLN:H	2:B:2266:LEU:CD1	2.22	0.53
2:B:2246:GLN:C	2:B:2308:ARG:HH12	2.12	0.53
2:B:1712:PRO:HG2	2:B:1719:ARG:HA	1.89	0.53
1:C:1280:ILE:HD11	1:C:1330:ALA:HB1	1.88	0.53
1:C:442:ALA:HB1	1:C:505:ARG:HB3	1.90	0.53
1:C:508:THR:HG23	1:C:509:ILE:N	2.23	0.53
1:C:496:THR:HG21	1:C:698:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:213:VAL:HG23	1:A:214:ASP:N	2.24	0.53
1:A:64:THR:OG1	1:A:240:LEU:HB3	2.09	0.53
1:A:1242:HIS:HB3	1:A:1249:GLN:NE2	2.23	0.53
1:C:64:THR:OG1	1:C:240:LEU:HB3	2.09	0.53
2:D:3292:ILE:C	2:D:3292:ILE:HD13	2.29	0.53
2:D:1770:LEU:HD21	2:D:1876:ILE:CG1	2.34	0.53
2:B:3287:LEU:HB2	2:B:3288:PRO:HA	1.89	0.53
2:B:3201:PHE:HB2	2:B:3293:VAL:CG2	2.37	0.53
2:D:2847:ILE:HD12	2:D:2851:LEU:HD11	1.89	0.53
1:A:486:ILE:CD1	1:A:662:LEU:HG	2.30	0.53
1:C:481:VAL:HG23	1:C:481:VAL:O	2.08	0.53
2:D:2010:GLY:H	2:D:2013:GLU:HG3	1.72	0.53
1:A:1345:TRP:CZ3	1:A:1426:ALA:HB3	2.42	0.53
1:C:1345:TRP:CZ2	1:C:1400:PHE:CE2	2.94	0.53
2:B:1761:LEU:HD12	2:B:1762:PRO:CD	2.31	0.53
1:C:964:ILE:HG22	1:C:966:THR:N	2.23	0.53
2:B:3206:LEU:CD2	2:B:3206:LEU:H	2.17	0.53
1:C:1059:LEU:HD13	1:C:1059:LEU:C	2.28	0.53
1:A:2:ASN:HD22	1:A:276:ASP:HB2	1.72	0.53
1:C:804:GLU:HG2	1:C:805:VAL:N	2.23	0.53
1:A:771:TRP:CZ3	1:A:773:PHE:CE2	2.95	0.53
2:B:2140:ILE:HG13	2:B:2143:MET:HG3	1.90	0.53
2:B:2542:HIS:CE1	2:B:2688:LEU:HD12	2.35	0.53
2:D:2695:PRO:HA	2:D:2698:TRP:HZ3	1.72	0.53
1:C:440:ARG:HH22	1:C:540:HIS:HD2	1.57	0.53
1:A:1265:LEU:HD21	1:A:1341:PRO:HB3	1.91	0.53
1:A:1448:ASP:OD1	1:A:1450:VAL:HG23	2.07	0.53
1:C:194:MET:HA	1:C:200:THR:OG1	2.08	0.53
1:C:853:LEU:HB3	1:C:959:TRP:CE2	2.44	0.53
2:B:1770:LEU:CD2	2:B:1873:LEU:HA	2.38	0.53
1:C:1185:TRP:CZ3	1:C:1187:TYR:CE2	2.95	0.53
2:B:2026:ILE:HD12	2:B:2030:LEU:CD1	2.38	0.53
1:A:481:VAL:O	1:A:481:VAL:HG23	2.08	0.53
2:D:3078:VAL:HG11	2:D:3105:HIS:CE1	2.44	0.53
2:B:2979:ILE:C	2:B:2979:ILE:HD12	2.28	0.53
2:D:3020:PHE:O	2:D:3021:LYS:HG3	2.07	0.53
1:A:1379:ILE:HD13	1:A:1444:TYR:CE1	2.43	0.53
1:A:1189:ARG:NE	2:B:2431:ARG:HG2	2.24	0.53
2:D:2172:TYR:HD2	2:D:2293:PHE:HD1	1.53	0.53
2:B:2344:VAL:HG13	2:B:2347:ASP:H	1.74	0.53
1:A:1542:GLU:HA	1:A:1545:ARG:CD	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2200:MET:HG2	2:D:2201:PRO:N	2.23	0.53
2:D:2351:TYR:O	2:D:2354:LEU:HB2	2.09	0.53
2:B:2168:VAL:HG22	2:B:2169:ALA:H	1.71	0.53
2:D:2569:TRP:CB	2:D:2736:LEU:HD13	2.38	0.53
1:C:872:LEU:HA	1:C:875:PHE:CD1	2.44	0.53
1:C:1477:ARG:HD3	1:C:1514:GLU:HB3	1.90	0.53
1:A:1365:ARG:HD3	1:A:1365:ARG:N	2.21	0.53
1:A:1495:LYS:HD2	1:A:1495:LYS:N	2.24	0.53
1:A:1507:ALA:O	1:A:1509:PRO:HD3	2.09	0.53
1:A:1655:ALA:O	2:B:1898:SER:HB2	2.09	0.53
2:B:2472:LEU:HD13	2:B:2472:LEU:C	2.28	0.53
1:C:482:HIS:HA	1:C:487:PHE:CD2	2.32	0.53
2:D:2624:VAL:HG11	2:D:2683:TYR:CD1	2.44	0.53
1:C:352:TRP:HZ3	1:C:354:PHE:CE2	2.27	0.53
2:B:1817:LYS:HB2	2:B:1820:HIS:ND1	2.23	0.53
2:B:2172:TYR:HD2	2:B:2293:PHE:HD1	1.53	0.53
2:D:2172:TYR:HB2	2:D:2293:PHE:CB	2.39	0.53
2:B:2156:GLN:HA	2:B:2156:GLN:NE2	2.23	0.53
2:B:2542:HIS:HB3	2:B:2692:THR:HB	1.90	0.53
2:B:2695:PRO:HA	2:B:2698:TRP:CE3	2.42	0.53
1:C:1265:LEU:HD21	1:C:1341:PRO:HB3	1.91	0.53
1:C:1467:ASP:HB3	1:C:1470:ARG:HH12	1.73	0.53
1:C:676:LEU:N	1:C:676:LEU:CD2	2.71	0.53
1:C:544:PHE:HD1	1:C:631:PHE:HZ	1.56	0.53
1:A:160:LEU:HD11	1:A:294:LEU:CD2	2.39	0.53
1:A:1442:LEU:HD13	1:A:1442:LEU:C	2.29	0.53
2:D:3312:VAL:CG1	2:D:3389:LEU:HD23	2.37	0.53
2:D:3311:ASP:H	2:D:3387:ASN:CB	2.22	0.53
1:C:909:THR:HG23	1:C:910:VAL:N	2.24	0.53
1:A:602:HIS:HD1	1:A:636:VAL:HG21	1.74	0.53
1:C:748:LYS:HD3	1:C:754:GLN:NE2	2.23	0.53
2:D:2622:LEU:CG	2:D:2683:TYR:HE1	2.20	0.53
1:A:1406:TYR:HA	1:A:1543:ARG:CZ	2.39	0.53
2:B:1761:LEU:CD1	2:B:1762:PRO:HD2	2.30	0.53
2:B:2508:ILE:HD12	2:B:2699:LEU:HD13	1.90	0.53
2:B:2858:TYR:HE1	2:B:2886:VAL:HG12	1.73	0.53
2:D:1883:ARG:O	2:D:1887:ILE:HG12	2.08	0.53
2:B:1946:ILE:HG12	2:B:1947:TYR:N	2.23	0.53
1:A:1349:ILE:O	1:A:1349:ILE:HG13	2.08	0.53
1:C:1349:ILE:HG13	1:C:1349:ILE:O	2.08	0.53
2:D:2103:LEU:CD2	2:D:2161:LEU:HD11	2.31	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2362:GLU:HG3	2:D:2366:MET:O	2.09	0.53
2:B:2243:ALA:CA	2:B:2246:GLN:HE21	2.18	0.53
1:C:1507:ALA:O	1:C:1509:PRO:HD3	2.09	0.53
1:A:1310:VAL:HG22	1:A:1319:TRP:HB2	1.89	0.53
1:A:1280:ILE:HD11	1:A:1330:ALA:HB1	1.88	0.53
1:A:1262:ILE:HD12	1:A:1353:PRO:HB3	1.91	0.53
1:A:1457:THR:O	1:A:1460:ARG:HG2	2.09	0.53
1:A:1491:GLN:NE2	1:A:1494:ASP:HB2	2.24	0.53
1:A:549:ILE:HG23	1:A:551:PHE:CE1	2.44	0.53
1:A:583:LEU:HD21	1:A:719:ILE:HG12	1.91	0.53
2:D:3308:ILE:HG12	2:D:3331:VAL:HG11	1.90	0.53
2:B:2946:HIS:CE1	2:B:3093:LEU:HD12	2.44	0.53
2:B:3075:HIS:HB2	2:B:3109:LEU:HD11	1.89	0.53
2:B:3124:VAL:O	2:B:3124:VAL:HG13	2.08	0.53
2:B:1672:THR:HG23	2:B:1673:GLN:N	2.23	0.53
2:D:2026:ILE:HD12	2:D:2030:LEU:CD1	2.38	0.53
2:B:2680:LEU:HD12	2:B:2680:LEU:C	2.29	0.53
1:A:322:VAL:O	1:A:322:VAL:HG13	2.08	0.53
2:B:2848:THR:HG22	2:B:2852:LYS:HE3	1.91	0.53
2:D:2471:VAL:HG12	2:D:2472:LEU:N	2.24	0.53
1:C:226:LEU:HD23	1:C:291:LYS:HB2	1.90	0.53
2:D:1801:HIS:HB2	2:D:1803:LYS:NZ	2.24	0.53
1:A:1437:TYR:HD2	1:A:1444:TYR:CE1	2.27	0.53
1:A:1554:LEU:HG	1:A:1602:LEU:HD21	1.91	0.53
2:B:3136:ILE:HD12	2:B:3136:ILE:N	2.23	0.53
2:B:2741:ASP:CB	2:B:2743:ILE:HG22	2.38	0.53
1:C:984:GLU:HG3	1:C:985:PHE:N	2.23	0.53
1:A:982:GLN:HG3	1:A:982:GLN:O	2.08	0.53
2:D:2118:ILE:CD1	2:D:2156:GLN:HG3	2.39	0.53
2:D:2156:GLN:NE2	2:D:2156:GLN:HA	2.23	0.53
2:D:2106:LEU:HD11	2:D:2161:LEU:CD2	2.39	0.53
2:D:2308:ARG:HH21	2:D:2375:ILE:CD1	2.22	0.53
2:B:2175:TRP:HH2	2:B:2266:LEU:HD22	1.73	0.53
2:B:2220:VAL:CG1	2:B:2266:LEU:HD11	2.37	0.53
2:B:2538:ILE:CD1	2:B:2577:MET:HE1	1.84	0.53
1:C:1310:VAL:O	1:C:1310:VAL:HG23	2.08	0.53
1:C:1453:LEU:HD12	1:C:1453:LEU:H	1.73	0.53
1:C:549:ILE:HG23	1:C:551:PHE:CE1	2.44	0.53
1:A:615:PHE:CD1	1:A:622:TYR:CZ	2.97	0.53
2:D:3344:SER:HB3	2:D:3348:MET:HB2	1.89	0.53
1:A:1171:ALA:HA	1:A:1198:LYS:CD	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2403:ILE:HG23	2:B:2403:ILE:O	2.08	0.53
2:D:2946:HIS:CE1	2:D:3093:LEU:HD12	2.44	0.53
2:D:2981:PHE:CG	2:D:3103:MET:HB3	2.44	0.53
2:D:3010:PHE:HZ	2:D:3104:ILE:HD11	1.71	0.53
2:B:2981:PHE:CG	2:B:3103:MET:HB3	2.44	0.53
1:C:802:ILE:CB	1:C:810:LEU:HD12	2.38	0.53
1:C:1567:PHE:CD1	1:C:1583:ALA:HA	2.44	0.53
1:C:1406:TYR:HA	1:C:1543:ARG:CZ	2.39	0.53
1:C:1484:GLN:CD	1:C:1484:GLN:H	2.11	0.53
1:A:130:PHE:HD1	1:A:202:TYR:HH	1.57	0.53
1:C:319:PHE:CD2	1:C:337:LYS:HE3	2.32	0.53
1:C:973:ARG:HD2	1:C:1022:VAL:HG13	1.90	0.53
1:A:162:ALA:HA	1:A:165:GLN:NE2	2.24	0.53
1:C:1437:TYR:HD2	1:C:1444:TYR:CE1	2.27	0.53
2:D:3028:ASN:CG	2:D:3029:GLN:H	2.12	0.53
1:C:3:LEU:HD11	1:C:81:GLN:CD	2.29	0.53
1:C:1542:GLU:HG3	1:C:1545:ARG:HD3	1.90	0.53
2:B:2786:GLU:HA	2:B:2786:GLU:OE1	2.09	0.53
2:D:2386:ALA:O	2:D:2434:LYS:HA	2.07	0.53
1:C:1155:SER:HB2	1:C:1217:PHE:O	2.07	0.53
2:D:2267:VAL:HG21	2:D:2275:LEU:CG	2.31	0.53
2:D:2246:GLN:C	2:D:2308:ARG:HH12	2.12	0.53
2:D:2432:LEU:HD22	2:D:2481:THR:HG21	1.90	0.53
2:B:2106:LEU:HD11	2:B:2161:LEU:CD2	2.39	0.53
2:B:2118:ILE:CD1	2:B:2156:GLN:HG3	2.39	0.53
2:B:2362:GLU:HG3	2:B:2366:MET:O	2.09	0.53
2:D:2561:HIS:CE1	2:D:2688:LEU:HD11	2.44	0.53
1:A:552:GLU:HG3	1:A:554:ASN:HB2	1.91	0.53
1:A:698:LEU:CG	1:A:700:TYR:HD1	2.21	0.53
1:C:86:THR:HG23	1:C:87:SER:N	2.24	0.53
2:D:3349:PHE:CE1	2:D:3375:PHE:CG	2.97	0.53
2:D:1804:ARG:HH11	2:D:1873:LEU:HD22	1.73	0.53
1:A:1214:TYR:O	1:A:1226:LYS:HG3	2.09	0.53
1:C:1156:LEU:HG	1:C:1157:VAL:N	2.23	0.53
1:C:1158:LYS:CB	1:C:1173:GLU:HG2	2.38	0.53
1:C:1214:TYR:O	1:C:1226:LYS:HG3	2.09	0.53
2:B:3132:CYS:HB2	2:B:3396:ASP:OD2	2.09	0.53
1:A:895:VAL:HG23	1:A:898:MET:HB2	1.89	0.53
1:A:602:HIS:ND1	1:A:632:HIS:NE2	2.57	0.53
2:B:3078:VAL:HG11	2:B:3105:HIS:CE1	2.44	0.53
1:C:748:LYS:CB	1:C:754:GLN:HG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2619:ILE:HD13	2:D:2690:TYR:CD1	2.44	0.53
1:A:930:TRP:CZ3	1:A:991:ILE:HD13	2.41	0.53
2:D:2800:LEU:CD1	2:D:2828:ILE:HD11	2.33	0.53
1:A:729:TYR:CD1	1:A:821:ILE:HD11	2.43	0.53
1:C:227:ARG:O	1:C:228:ASN:HB2	2.07	0.53
2:D:2124:LEU:HD13	2:D:2124:LEU:C	2.29	0.53
2:D:2157:PHE:HB2	2:D:2288:PHE:CD2	2.44	0.53
2:B:2239:GLN:HG3	2:B:2255:GLN:NE2	2.24	0.53
2:B:1695:SER:HB2	2:D:2195:TRP:HD1	1.74	0.53
1:C:1319:TRP:CA	1:C:1490:LEU:HD21	2.38	0.53
1:C:1257:ARG:NE	1:C:1332:LEU:HD21	2.23	0.53
1:C:521:THR:HA	1:C:567:PHE:HD1	1.68	0.53
1:A:146:LYS:HZ1	1:A:148:LYS:HE3	1.72	0.53
1:A:70:ARG:NH1	1:A:217:PHE:HD2	2.07	0.53
1:A:1257:ARG:NE	1:A:1332:LEU:HD21	2.23	0.53
1:A:1277:PHE:CE1	1:A:1286:TYR:CE1	2.97	0.53
1:A:1515:TYR:HH	1:A:1521:TYR:CB	2.14	0.53
1:A:443:PHE:HD1	1:A:543:PRO:CB	2.22	0.53
1:A:496:THR:HG21	1:A:698:LEU:HD23	1.91	0.53
1:A:446:PHE:HB2	1:A:505:ARG:HD3	1.89	0.53
1:A:576:THR:HG22	1:A:579:PHE:HB2	1.90	0.53
1:C:164:GLU:O	1:C:164:GLU:HG3	2.09	0.53
1:C:183:HIS:CE1	1:C:194:MET:HE2	2.44	0.53
2:B:3051:ILE:HG23	2:B:3074:LEU:HD21	1.91	0.53
2:D:1843:PHE:HE1	2:D:1884:ILE:CG1	2.16	0.53
2:B:1786:ASN:OD1	2:B:1788:PHE:N	2.39	0.53
2:B:3312:VAL:CG1	2:B:3389:LEU:HD23	2.37	0.53
2:B:3308:ILE:HG12	2:B:3331:VAL:HG11	1.90	0.53
2:D:2848:THR:HG22	2:D:2852:LYS:HE3	1.91	0.53
2:B:2619:ILE:HD13	2:B:2690:TYR:CD1	2.44	0.53
1:C:600:ILE:HG23	1:C:601:THR:N	2.24	0.53
1:A:845:LEU:HD11	1:A:926:PRO:HG2	1.89	0.53
1:C:1345:TRP:CE3	1:C:1400:PHE:HD2	2.28	0.53
1:C:1395:PHE:CZ	1:C:1430:LEU:CG	2.92	0.53
2:D:2652:LEU:HD23	2:D:2665:GLN:OE1	2.09	0.53
1:A:964:ILE:HG22	1:A:966:THR:N	2.23	0.53
2:B:2673:ILE:HG13	2:B:2700:HIS:CE1	2.44	0.53
2:B:2389:LEU:HD13	2:B:2478:HIS:HB2	1.90	0.53
1:C:1027:PRO:HG3	1:C:1220:LYS:NZ	2.24	0.53
2:B:2172:TYR:HB2	2:B:2293:PHE:CB	2.39	0.53
2:D:2786:GLU:OE1	2:D:2786:GLU:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3333:GLU:HA	2:D:3333:GLU:OE1	2.09	0.53
1:A:881:TRP:CZ3	1:A:885:PRO:HB3	2.43	0.52
2:D:2542:HIS:HB3	2:D:2692:THR:HB	1.91	0.52
1:C:1249:GLN:CG	1:C:1476:TYR:CG	2.91	0.52
1:C:1289:ILE:HA	1:C:1292:PHE:CE2	2.43	0.52
1:C:427:ASN:HB3	1:C:513:TYR:CE2	2.42	0.52
1:A:1491:GLN:HB3	1:A:1492:PRO:HA	1.92	0.52
2:D:3305:GLU:HG3	2:D:3319:VAL:HG11	1.90	0.52
1:A:1567:PHE:HE1	1:A:1610:ALA:HB1	1.74	0.52
1:A:1618:LEU:CG	2:B:1906:VAL:CG1	2.74	0.52
1:A:1156:LEU:HD21	1:A:1173:GLU:CD	2.29	0.52
1:A:1156:LEU:HG	1:A:1157:VAL:N	2.23	0.52
1:C:1156:LEU:HD21	1:C:1173:GLU:CD	2.29	0.52
2:B:3292:ILE:C	2:B:3292:ILE:HD13	2.29	0.52
1:A:747:ILE:HG23	1:A:796:PHE:HD2	1.73	0.52
2:B:1801:HIS:HB2	2:B:1803:LYS:NZ	2.24	0.52
1:A:1192:LYS:HZ1	1:A:1235:ILE:HD11	1.74	0.52
2:B:2670:HIS:CE1	2:B:2704:THR:HG21	2.44	0.52
1:C:964:ILE:HG12	1:C:1038:PHE:CZ	2.44	0.52
2:D:3020:PHE:CE2	2:D:3021:LYS:HD2	2.44	0.52
1:A:842:VAL:HG13	1:A:843:ASP:N	2.24	0.52
1:A:3:LEU:HD11	1:A:81:GLN:CD	2.29	0.52
2:B:1883:ARG:O	2:B:1887:ILE:HG12	2.08	0.52
2:B:2561:HIS:CE1	2:B:2688:LEU:HD11	2.44	0.52
1:A:1310:VAL:O	1:A:1310:VAL:HG23	2.08	0.52
1:A:1324:VAL:HG13	1:A:1325:VAL:N	2.22	0.52
1:C:160:LEU:HD11	1:C:294:LEU:CD2	2.39	0.52
1:C:213:VAL:HG23	1:C:214:ASP:N	2.24	0.52
2:D:3340:LEU:HD22	2:D:3377:THR:HG21	1.92	0.52
1:C:1075:THR:O	2:D:2456:GLU:HB3	2.09	0.52
1:A:1566:VAL:HG22	1:A:1626:ILE:CA	2.39	0.52
2:B:2999:TRP:CZ3	2:B:3051:ILE:HG21	2.44	0.52
2:D:1770:LEU:CD2	2:D:1873:LEU:HA	2.39	0.52
1:C:1159:PHE:O	1:C:1171:ALA:HB3	2.08	0.52
2:B:3362:GLU:HA	2:B:3362:GLU:OE1	2.09	0.52
2:B:1909:MET:HE2	2:B:1938:PHE:CZ	2.36	0.52
2:D:2045:VAL:HG12	2:D:2046:THR:N	2.24	0.52
2:D:2680:LEU:C	2:D:2680:LEU:HD12	2.29	0.52
1:A:1136:ILE:HG23	1:A:1137:LYS:N	2.24	0.52
1:C:248:PHE:HB3	1:C:258:THR:CG2	2.34	0.52
2:B:2605:PHE:CE2	2:B:2614:PHE:CD2	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2605:PHE:CE2	2:D:2614:PHE:CD2	2.97	0.52
1:A:891:PHE:CB	1:A:1183:MET:CG	2.87	0.52
2:D:1808:ARG:HE	2:D:1810:ARG:CB	2.21	0.52
2:B:1808:ARG:HE	2:B:1810:ARG:CB	2.21	0.52
2:D:2257:GLU:O	2:D:2260:HIS:HB3	2.09	0.52
2:B:2232:GLU:OE1	2:B:2232:GLU:HA	2.09	0.52
2:D:2232:GLU:HA	2:D:2232:GLU:OE1	2.09	0.52
2:D:2145:THR:OG1	2:D:2321:LEU:HB3	2.08	0.52
2:D:2239:GLN:HG3	2:D:2255:GLN:NE2	2.24	0.52
2:B:2247:HIS:HA	2:B:2308:ARG:NH1	2.24	0.52
2:D:2577:MET:HE2	2:D:2698:TRP:CE2	2.45	0.52
1:C:1277:PHE:CE1	1:C:1286:TYR:CE1	2.97	0.52
1:C:1292:PHE:O	1:C:1308:CYS:HB2	2.08	0.52
1:C:1442:LEU:HD13	1:C:1442:LEU:C	2.29	0.52
1:C:433:ARG:HA	1:C:436:VAL:HG12	1.91	0.52
1:C:583:LEU:HD21	1:C:719:ILE:HG12	1.91	0.52
1:C:615:PHE:CD1	1:C:622:TYR:CZ	2.97	0.52
1:C:698:LEU:CD1	1:C:700:TYR:HD1	2.22	0.52
1:A:168:PHE:HE1	1:A:217:PHE:CZ	2.28	0.52
1:A:1318:HIS:CB	1:A:1509:PRO:HB3	2.39	0.52
1:A:508:THR:HG23	1:A:509:ILE:N	2.23	0.52
1:C:70:ARG:NH1	1:C:217:PHE:HD2	2.07	0.52
1:C:845:LEU:HD11	1:C:926:PRO:HG2	1.89	0.52
1:A:1567:PHE:CD1	1:A:1583:ALA:HA	2.44	0.52
1:C:482:HIS:HD2	1:C:487:PHE:CD2	2.28	0.52
1:C:1618:LEU:HD21	2:D:1906:VAL:CG1	2.40	0.52
1:A:362:LEU:O	1:A:366:VAL:HG23	2.09	0.52
1:A:940:LEU:HA	1:A:946:TYR:OH	2.09	0.52
1:A:1404:VAL:HA	1:A:1423:LEU:HD22	1.90	0.52
1:A:1146:PHE:N	1:A:1190:VAL:HG13	2.25	0.52
2:B:3020:PHE:CE2	2:B:3021:LYS:HD2	2.44	0.52
1:C:749:THR:HG23	1:C:752:SER:N	2.23	0.52
2:B:2462:VAL:HG22	2:B:2463:SER:N	2.24	0.52
2:D:2477:LEU:HD22	2:D:2477:LEU:N	2.24	0.52
1:C:731:GLY:O	1:C:818:ALA:HB1	2.10	0.52
2:D:2366:MET:HB2	2:D:2371:ILE:CG2	2.37	0.52
2:B:1921:PRO:HB2	2:D:2195:TRP:CA	2.35	0.52
2:B:1924:LEU:CB	2:D:2094:ARG:HG2	2.38	0.52
2:B:2195:TRP:CB	2:D:1921:PRO:C	2.77	0.52
1:C:1322:LEU:HD11	1:C:1506:HIS:CB	2.38	0.52
1:C:1457:THR:O	1:C:1460:ARG:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1491:GLN:HB3	1:C:1492:PRO:HA	1.91	0.52
1:C:502:LEU:HA	1:C:505:ARG:HG3	1.90	0.52
1:A:146:LYS:NZ	1:A:148:LYS:CE	2.72	0.52
1:A:42:HIS:CB	1:A:201:ALA:HB2	2.39	0.52
1:A:514:TRP:CE3	1:A:628:LEU:CD1	2.86	0.52
1:C:940:LEU:HA	1:C:946:TYR:OH	2.09	0.52
2:B:3001:GLN:HA	2:B:3180:HIS:ND1	2.24	0.52
2:B:1874:PHE:CD1	2:B:1878:HIS:CE1	2.96	0.52
2:B:3220:LYS:O	2:B:3261:LEU:HD13	2.10	0.52
2:B:1693:HIS:CD2	2:D:2101:TYR:C	2.83	0.52
2:D:3051:ILE:HG23	2:D:3074:LEU:HD21	1.91	0.52
1:A:1018:ILE:HG13	1:A:1045:HIS:CE1	2.45	0.52
1:C:1345:TRP:HZ2	1:C:1430:LEU:CD2	2.23	0.52
2:B:1960:ILE:O	2:B:1964:VAL:HG13	2.10	0.52
1:C:930:TRP:HB2	1:C:1018:ILE:HD11	1.91	0.52
1:C:1657:THR:HB	2:D:1901:GLU:OE1	2.09	0.52
2:D:2732:MET:HE1	2:D:2759:PHE:HZ	1.67	0.52
1:C:674:SER:CB	1:C:675:PRO:HD3	2.38	0.52
2:D:3024:ILE:CG1	2:D:3029:GLN:HE21	2.23	0.52
2:D:2854:MET:CB	2:D:2856:LEU:HG	2.39	0.52
2:B:2964:VAL:HG11	2:B:2969:ILE:HD11	1.92	0.52
2:D:2741:ASP:CB	2:D:2743:ILE:HG22	2.38	0.52
2:B:2405:LYS:HG2	2:B:2406:THR:N	2.25	0.52
2:D:2170:VAL:HB	2:D:2288:PHE:HE1	1.69	0.52
2:B:1914:LYS:HG2	2:B:1918:PHE:HE1	1.71	0.52
1:C:875:PHE:O	1:C:893:CYS:HB2	2.09	0.52
1:C:676:LEU:CD2	1:C:1365:ARG:HA	2.40	0.52
1:C:443:PHE:HD1	1:C:543:PRO:CB	2.22	0.52
1:A:1276:ALA:HB1	1:A:1334:LYS:CB	2.40	0.52
1:A:1467:ASP:HB3	1:A:1470:ARG:HH12	1.73	0.52
1:A:446:PHE:CE2	1:A:455:TYR:CD1	2.98	0.52
1:C:853:LEU:CB	1:C:959:TRP:HZ2	2.17	0.52
2:D:2999:TRP:CZ3	2:D:3051:ILE:HG21	2.44	0.52
1:C:602:HIS:CE1	1:C:632:HIS:CD2	2.98	0.52
1:C:1018:ILE:HG13	1:C:1045:HIS:CE1	2.45	0.52
1:C:1136:ILE:HG23	1:C:1137:LYS:N	2.24	0.52
1:C:1146:PHE:N	1:C:1190:VAL:HG13	2.25	0.52
2:B:2652:LEU:HD23	2:B:2665:GLN:OE1	2.09	0.52
1:A:226:LEU:HD23	1:A:291:LYS:HB2	1.90	0.52
1:A:964:ILE:HG12	1:A:1038:PHE:CZ	2.44	0.52
2:B:1674:LEU:HD11	2:B:1755:PRO:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:804:GLU:HG2	1:A:805:VAL:N	2.23	0.52
1:A:1542:GLU:HG3	1:A:1545:ARG:HD3	1.90	0.52
2:D:2837:TRP:CZ3	2:D:2839:PHE:CE2	2.98	0.52
2:B:2085:ARG:HD2	2:B:2358:TYR:HE1	1.63	0.52
2:B:2124:LEU:HD13	2:B:2124:LEU:C	2.29	0.52
2:B:2351:TYR:O	2:B:2354:LEU:HB2	2.09	0.52
1:A:866:ALA:HA	1:A:871:GLN:HG2	1.91	0.52
1:A:875:PHE:O	1:A:893:CYS:HB2	2.09	0.52
1:C:446:PHE:CE2	1:C:455:TYR:CD1	2.97	0.52
2:D:3132:CYS:HB2	2:D:3396:ASP:OD2	2.09	0.52
1:A:1567:PHE:CE1	1:A:1610:ALA:HB1	2.45	0.52
1:C:1231:GLN:NE2	1:C:1231:GLN:HA	2.25	0.52
2:D:1730:PHE:HD1	2:D:1731:PRO:CD	2.23	0.52
2:B:3320:VAL:HG12	2:B:3321:LYS:N	2.16	0.52
2:B:3317:LYS:HZ3	2:B:3391:ILE:HG21	1.73	0.52
2:D:3001:GLN:HA	2:D:3180:HIS:ND1	2.24	0.52
1:C:602:HIS:HD1	1:C:636:VAL:HG21	1.74	0.52
1:A:930:TRP:HB2	1:A:1018:ILE:HD11	1.91	0.52
1:A:1014:ALA:HA	1:A:1017:TYR:CD1	2.45	0.52
2:B:2479:ALA:CB	2:B:2480:PRO:HD2	2.31	0.52
2:D:3296:PRO:O	2:D:3300:VAL:HG12	2.09	0.52
2:B:2560:THR:HB	2:B:2563:MET:HE3	1.92	0.52
1:A:994:GLN:HA	1:A:994:GLN:NE2	2.25	0.52
2:B:2308:ARG:HH21	2:B:2375:ILE:CD1	2.22	0.52
1:A:1249:GLN:CG	1:A:1476:TYR:CG	2.91	0.52
1:A:444:HIS:HB2	1:A:543:PRO:HG2	1.91	0.52
1:A:502:LEU:HA	1:A:505:ARG:HG3	1.90	0.52
1:A:509:ILE:HG22	1:A:510:GLY:H	1.73	0.52
1:C:97:PRO:HD3	1:C:153:THR:HG21	1.91	0.52
1:A:1568:VAL:HG12	1:A:1622:PHE:HB2	1.88	0.52
2:D:1786:ASN:OD1	2:D:1788:PHE:N	2.39	0.52
2:B:3293:VAL:O	2:B:3293:VAL:HG23	2.09	0.52
1:A:904:TRP:HB2	1:A:1081:LEU:HD13	1.91	0.52
1:A:745:ILE:CG1	1:A:800:VAL:HG22	2.39	0.52
1:A:810:LEU:HD11	1:A:814:LEU:HD13	1.92	0.52
1:A:802:ILE:HD12	1:A:810:LEU:HD12	1.92	0.52
1:C:745:ILE:CG1	1:C:800:VAL:HG22	2.39	0.52
2:D:2717:TYR:CE1	2:D:2779:LYS:HD2	2.45	0.52
1:A:907:LEU:CD2	1:A:1112:PHE:HZ	2.23	0.52
1:A:909:THR:HG23	1:A:910:VAL:N	2.24	0.52
1:C:1469:GLN:CG	1:C:1474:ARG:HB2	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1345:TRP:CE3	1:A:1400:PHE:HD2	2.28	0.52
1:C:1484:GLN:CG	2:D:2065:ILE:HD13	2.40	0.52
2:D:2673:ILE:HG13	2:D:2700:HIS:CE1	2.44	0.52
2:B:2732:MET:HE1	2:B:2759:PHE:CE2	2.43	0.52
1:C:162:ALA:HA	1:C:165:GLN:NE2	2.24	0.52
2:D:3206:LEU:CD2	2:D:3206:LEU:H	2.17	0.52
1:C:493:LEU:HD22	1:C:670:PHE:CD1	2.44	0.52
1:A:493:LEU:HD22	1:A:670:PHE:CD1	2.44	0.52
1:C:1124:LEU:HD22	1:C:1128:GLN:HG3	1.91	0.52
1:C:1483:ILE:CD1	2:D:2037:HIS:HB2	2.39	0.52
2:D:2293:PHE:CE2	2:D:2297:VAL:HG21	2.44	0.52
2:B:2805:LYS:HG2	2:B:2806:SER:N	2.24	0.52
1:A:717:LYS:HZ3	1:A:831:LYS:HE3	1.74	0.52
2:D:1743:ASP:HB3	2:D:1746:ARG:NH2	2.25	0.52
2:B:2717:TYR:CE1	2:B:2779:LYS:HD2	2.45	0.52
2:B:2143:MET:HE3	2:B:2321:LEU:CD1	2.39	0.52
2:B:2321:LEU:CD2	2:B:2321:LEU:H	2.20	0.52
1:A:872:LEU:HA	1:A:875:PHE:CD1	2.44	0.52
1:C:1092:THR:HG23	1:C:1093:ASP:N	2.23	0.52
1:C:1488:THR:HG22	1:C:1489:PRO:O	2.10	0.52
1:C:444:HIS:HB2	1:C:543:PRO:HG2	1.91	0.52
1:C:545:HIS:O	1:C:558:THR:HB	2.09	0.52
1:C:698:LEU:CB	1:C:700:TYR:HD1	2.23	0.52
1:A:234:MET:HE2	1:A:241:LEU:HD23	1.92	0.52
1:A:1533:ILE:CB	1:A:1534:PRO:HD3	2.39	0.52
1:A:446:PHE:CD2	1:A:455:TYR:HB2	2.44	0.52
1:C:42:HIS:CB	1:C:201:ALA:HB2	2.39	0.52
1:C:89:LEU:CD2	1:C:89:LEU:H	2.17	0.52
2:B:3296:PRO:O	2:B:3300:VAL:HG12	2.09	0.52
1:C:1234:VAL:N	2:D:2320:SER:HB2	2.25	0.52
2:D:1874:PHE:CD1	2:D:1878:HIS:CE1	2.96	0.52
1:C:810:LEU:HD11	1:C:814:LEU:HD13	1.92	0.52
1:A:1395:PHE:CZ	1:A:1430:LEU:CG	2.92	0.52
2:D:2663:GLU:OE2	2:D:2667:GLU:HB2	2.10	0.52
1:A:1022:VAL:HG21	1:A:1041:LEU:HD21	1.92	0.52
1:A:1628:ILE:HG23	1:A:1628:ILE:O	2.10	0.52
1:A:1295:SER:OG	1:A:1296:PRO:HA	2.10	0.52
2:B:2136:VAL:CB	2:B:2425:MET:HB2	2.36	0.52
2:D:2958:GLU:O	2:D:2959:LYS:HB2	2.09	0.52
2:D:2805:LYS:HG2	2:D:2806:SER:N	2.24	0.52
1:C:253:ASN:HD22	1:C:255:ILE:CG2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1775:ILE:O	2:B:1775:ILE:HG23	2.09	0.52
2:D:2273:TYR:HD2	2:D:2280:TYR:CE1	2.28	0.52
2:B:2157:PHE:HB2	2:B:2288:PHE:CD2	2.44	0.52
2:B:2257:GLU:O	2:B:2260:HIS:HB3	2.09	0.52
2:B:2273:TYR:HD2	2:B:2280:TYR:CE1	2.28	0.52
1:C:1489:PRO:HB2	1:C:1494:ASP:OD2	2.10	0.52
1:A:207:PHE:HD2	1:A:208:LEU:HD12	1.75	0.52
1:A:1249:GLN:HB3	1:A:1251:GLU:OE1	2.10	0.52
1:C:19:LEU:HD21	1:C:123:TRP:CE2	2.45	0.52
1:C:207:PHE:HD2	1:C:208:LEU:HD12	1.75	0.52
1:C:1171:ALA:HA	1:C:1198:LYS:CD	2.39	0.52
2:B:3349:PHE:CE1	2:B:3375:PHE:CG	2.97	0.52
2:D:3054:LEU:HD22	2:D:3054:LEU:N	2.25	0.52
1:A:602:HIS:CE1	1:A:632:HIS:CD2	2.98	0.52
2:D:2996:TYR:HE1	2:D:3175:ASP:OD1	1.93	0.52
1:C:481:VAL:HB	1:C:486:ILE:CG2	2.40	0.52
2:B:2628:ARG:NH1	2:B:2696:LEU:HD22	2.25	0.52
2:B:2148:HIS:HD2	2:B:2348:VAL:HG22	1.75	0.52
1:A:931:THR:HG22	1:A:991:ILE:HG13	1.92	0.52
1:C:1014:ALA:HA	1:C:1017:TYR:CD1	2.45	0.52
2:D:2798:PHE:HB3	2:D:2800:LEU:HD21	1.91	0.52
2:D:3335:VAL:CG1	2:D:3383:LEU:HD21	2.39	0.52
2:B:2016:TRP:CZ3	2:B:2018:PHE:CE2	2.98	0.52
1:C:891:PHE:CB	1:C:1183:MET:CG	2.87	0.52
2:B:2854:MET:CB	2:B:2856:LEU:HG	2.40	0.52
2:B:2200:MET:HG3	2:B:2201:PRO:HD2	1.92	0.52
2:B:2477:LEU:HD22	2:B:2477:LEU:N	2.24	0.52
2:D:2247:HIS:HA	2:D:2308:ARG:NH1	2.24	0.52
2:B:2569:TRP:CB	2:B:2736:LEU:HD13	2.38	0.52
1:C:446:PHE:CD2	1:C:455:TYR:HB2	2.44	0.52
1:A:164:GLU:HG3	1:A:164:GLU:O	2.09	0.52
1:A:428:ILE:HD12	1:A:428:ILE:H	1.75	0.52
1:A:545:HIS:O	1:A:558:THR:HB	2.09	0.52
2:B:3315:PRO:HB3	2:D:3350:LYS:HZ2	1.75	0.52
1:C:1075:THR:HG21	2:D:2480:PRO:O	2.09	0.52
1:A:1159:PHE:CD2	1:A:1171:ALA:HB3	2.45	0.52
1:C:1156:LEU:HD11	1:C:1173:GLU:HB3	1.92	0.52
1:C:1159:PHE:CD2	1:C:1171:ALA:HB3	2.45	0.52
1:C:629:PHE:CD2	1:C:633:HIS:CE1	2.96	0.52
1:C:904:TRP:HB2	1:C:1081:LEU:HD13	1.90	0.52
1:C:1567:PHE:CE1	1:C:1610:ALA:HB1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1345:TRP:HZ2	1:A:1430:LEU:CD2	2.23	0.52
2:D:3215:VAL:HG21	2:D:3233:PHE:CE2	2.45	0.52
2:D:2732:MET:HE1	2:D:2759:PHE:CE2	2.45	0.52
1:A:1503:THR:HG23	1:A:1504:LYS:N	2.24	0.52
1:A:1381:HIS:HE2	1:A:1447:PHE:HZ	1.58	0.52
1:C:1554:LEU:HG	1:C:1602:LEU:HD21	1.91	0.52
2:B:3028:ASN:CG	2:B:3029:GLN:H	2.12	0.52
2:B:2293:PHE:CE2	2:B:2297:VAL:HG21	2.45	0.52
1:A:891:PHE:HB2	1:A:1183:MET:HE3	1.91	0.52
1:A:788:LEU:O	1:A:789:ASP:HB2	2.09	0.52
2:B:3208:GLY:HA2	2:B:3244:TRP:CZ2	2.45	0.52
1:C:1609:LYS:O	1:C:1609:LYS:HD3	2.10	0.52
1:A:1531:TYR:HD1	1:A:1535:GLN:NE2	2.08	0.52
2:B:2060:ILE:HG13	2:B:2060:ILE:O	2.10	0.52
2:D:2214:THR:HG21	2:D:2273:TYR:CD2	2.45	0.51
2:D:2387:GLY:HA3	2:D:2432:LEU:CD2	2.23	0.51
2:B:2278:LEU:CA	2:B:2419:LEU:HD21	2.41	0.51
1:C:1311:HIS:CE1	1:C:1442:LEU:HD21	2.45	0.51
1:C:1491:GLN:NE2	1:C:1494:ASP:HB2	2.24	0.51
1:C:579:PHE:CZ	1:C:718:MET:HE1	2.45	0.51
1:A:262:SER:O	1:A:264:PRO:HD3	2.10	0.51
1:A:1262:ILE:CA	1:A:1265:LEU:HD23	2.38	0.51
1:A:1477:ARG:HD3	1:A:1514:GLU:HB3	1.90	0.51
1:A:442:ALA:HB1	1:A:505:ARG:HD2	1.92	0.51
1:C:19:LEU:HG	1:C:122:TYR:OH	2.10	0.51
1:C:181:ALA:O	1:C:185:LEU:HD13	2.10	0.51
2:D:3293:VAL:O	2:D:3293:VAL:HG23	2.09	0.51
2:D:3362:GLU:HA	2:D:3362:GLU:OE1	2.09	0.51
1:C:1108:TYR:HB2	1:C:1114:TYR:OH	2.10	0.51
1:C:1126:ILE:HD12	1:C:1126:ILE:N	2.25	0.51
1:A:1604:LYS:HZ1	1:A:1647:LEU:HD23	1.73	0.51
2:B:2999:TRP:HH2	2:B:3074:LEU:HD11	1.69	0.51
2:B:1823:PHE:HD1	2:B:1846:MET:CE	2.23	0.51
2:D:2344:VAL:HG13	2:D:2347:ASP:H	1.73	0.51
2:D:1724:VAL:HG12	2:D:1724:VAL:O	2.10	0.51
1:C:623:THR:HG23	1:C:624:ALA:N	2.25	0.51
1:A:629:PHE:CZ	1:A:633:HIS:NE2	2.72	0.51
1:A:1033:LEU:HD13	1:A:1033:LEU:C	2.31	0.51
1:C:362:LEU:O	1:C:366:VAL:HG23	2.09	0.51
1:C:325:PRO:HG2	1:C:376:HIS:ND1	2.25	0.51
1:C:1549:VAL:N	1:C:1608:THR:HG22	2.02	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1108:TYR:HB2	1:A:1114:TYR:OH	2.10	0.51
1:C:309:LEU:HD22	1:C:354:PHE:CE2	2.46	0.51
1:A:352:TRP:HZ3	1:A:354:PHE:CE2	2.27	0.51
1:A:973:ARG:HD2	1:A:1022:VAL:HG13	1.89	0.51
2:D:2134:ASN:O	2:D:2135:GLU:HG3	2.10	0.51
2:B:3024:ILE:CG1	2:B:3029:GLN:HE21	2.23	0.51
1:C:805:VAL:HG13	1:C:806:ASP:N	2.25	0.51
1:C:717:LYS:HZ3	1:C:831:LYS:HE3	1.75	0.51
1:A:993:LYS:HE3	1:A:1197:GLU:OE2	2.10	0.51
1:A:1573:GLY:O	1:A:1574:GLU:HB2	2.10	0.51
2:D:2339:THR:HG23	2:D:2340:LYS:N	2.25	0.51
2:B:2161:LEU:HB3	2:B:2166:SER:CB	2.41	0.51
2:B:2124:LEU:HB2	2:B:2279:HIS:HB2	1.91	0.51
2:B:2327:ARG:CG	2:B:2331:TYR:HE1	2.21	0.51
2:B:2339:THR:HG23	2:B:2340:LYS:N	2.25	0.51
1:A:911:GLN:OE1	1:A:1096:THR:HG21	2.10	0.51
2:D:2538:ILE:CD1	2:D:2577:MET:HE3	2.20	0.51
1:C:1495:LYS:HD2	1:C:1495:LYS:N	2.24	0.51
1:C:615:PHE:CD1	1:C:622:TYR:CE1	2.98	0.51
1:A:19:LEU:HG	1:A:122:TYR:OH	2.10	0.51
1:A:1242:HIS:CG	1:A:1476:TYR:CE1	2.98	0.51
1:A:551:PHE:CE1	1:A:625:PHE:CZ	2.95	0.51
1:A:698:LEU:CB	1:A:700:TYR:HD1	2.23	0.51
1:C:197:LEU:C	1:C:197:LEU:HD13	2.31	0.51
2:D:3308:ILE:HG23	2:D:3309:GLY:N	2.24	0.51
1:C:1078:ARG:CG	2:D:2456:GLU:HA	2.40	0.51
2:D:1851:HIS:CA	2:D:1862:ILE:HG22	2.39	0.51
2:D:1909:MET:HE3	2:D:1935:GLU:N	2.25	0.51
2:B:1694:SER:N	2:D:2101:TYR:CD2	2.78	0.51
2:B:2444:ALA:HB3	2:B:2446:ILE:HB	1.92	0.51
2:D:2963:CYS:SG	2:D:3093:LEU:HD11	2.51	0.51
2:D:2976:LEU:HD22	2:D:3144:PHE:CD2	2.45	0.51
1:C:743:VAL:HG13	1:C:800:VAL:CG1	2.41	0.51
2:D:2670:HIS:CE1	2:D:2704:THR:HG21	2.44	0.51
1:C:934:LEU:HD22	1:C:934:LEU:N	2.26	0.51
1:C:1295:SER:OG	1:C:1296:PRO:HA	2.10	0.51
1:C:842:VAL:HG13	1:C:843:ASP:N	2.24	0.51
1:A:1027:PRO:HG3	1:A:1220:LYS:NZ	2.24	0.51
2:D:1910:LYS:HE2	2:D:1933:LYS:CE	2.40	0.51
2:B:2864:PHE:CE1	2:B:2886:VAL:HG22	2.44	0.51
2:D:3208:GLY:HA2	2:D:3244:TRP:CZ2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2189:LYS:HG3	2:B:2190:GLU:N	2.25	0.51
1:C:866:ALA:HA	1:C:871:GLN:HG2	1.91	0.51
2:D:1775:ILE:O	2:D:1775:ILE:HG23	2.09	0.51
1:A:731:GLY:O	1:A:818:ALA:HB1	2.10	0.51
2:D:2638:PRO:HB2	2:D:2641:GLY:HA2	1.92	0.51
2:D:2462:VAL:HG22	2:D:2463:SER:N	2.24	0.51
2:B:1743:ASP:HB3	2:B:1746:ARG:NH2	2.25	0.51
2:D:2118:ILE:HD11	2:D:2156:GLN:HG3	1.93	0.51
2:D:2354:LEU:HB2	2:D:2356:TYR:HD1	1.75	0.51
2:B:2195:TRP:HB3	2:D:1922:TYR:N	2.25	0.51
2:B:2094:ARG:CG	2:D:1924:LEU:HB3	2.27	0.51
1:C:1276:ALA:HB1	1:C:1334:LYS:CB	2.40	0.51
1:C:560:ARG:HD2	1:C:609:THR:CA	2.34	0.51
1:C:551:PHE:CE1	1:C:625:PHE:HZ	2.21	0.51
1:A:181:ALA:O	1:A:185:LEU:HD13	2.10	0.51
1:A:1427:LEU:O	1:A:1427:LEU:HD13	2.10	0.51
1:A:552:GLU:CG	1:A:554:ASN:HB2	2.41	0.51
2:D:1823:PHE:HD1	2:D:1846:MET:CE	2.23	0.51
1:A:1216:VAL:HG23	1:A:1224:LEU:HD23	1.91	0.51
1:A:1231:GLN:HA	1:A:1231:GLN:NE2	2.25	0.51
1:C:1216:VAL:HG23	1:C:1224:LEU:HD23	1.91	0.51
1:C:1033:LEU:C	1:C:1033:LEU:HD13	2.30	0.51
1:A:578:LEU:O	1:A:582:ILE:HG13	2.11	0.51
1:A:600:ILE:HG23	1:A:601:THR:N	2.24	0.51
2:B:2777:THR:HG22	2:B:2780:LYS:CB	2.41	0.51
2:B:2627:THR:HG21	2:B:2681:THR:OG1	2.10	0.51
2:B:2471:VAL:HG12	2:B:2472:LEU:N	2.24	0.51
1:A:1010:GLN:O	1:A:1013:ILE:HG13	2.11	0.51
2:B:2798:PHE:HB3	2:B:2800:LEU:HD21	1.91	0.51
2:B:2572:LEU:CD2	2:B:2764:PHE:HE2	2.20	0.51
1:C:928:TRP:CZ3	1:C:1041:LEU:HD11	2.45	0.51
1:C:964:ILE:HG12	1:C:1038:PHE:CE2	2.45	0.51
2:D:2148:HIS:HD2	2:D:2348:VAL:HG22	1.75	0.51
2:D:3160:LEU:HD13	2:D:3162:ASN:N	2.17	0.51
2:D:3027:ILE:O	2:D:3028:ASN:HB2	2.09	0.51
1:C:1575:HIS:CA	2:D:2783:HIS:HB2	2.41	0.51
1:C:253:ASN:HD22	1:C:255:ILE:HG22	1.75	0.51
2:B:3333:GLU:OE1	2:B:3333:GLU:HA	2.09	0.51
2:D:2236:LEU:HD13	2:D:2236:LEU:C	2.31	0.51
2:D:2278:LEU:CA	2:D:2419:LEU:HD21	2.40	0.51
1:C:428:ILE:H	1:C:428:ILE:HD12	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:551:PHE:CE1	1:C:625:PHE:CZ	2.95	0.51
1:C:715:ILE:HG23	1:C:716:GLU:N	2.25	0.51
1:A:161:ASP:HA	1:A:297:ARG:HH12	1.76	0.51
1:A:1488:THR:HG22	1:A:1489:PRO:O	2.10	0.51
1:A:1489:PRO:HB2	1:A:1494:ASP:OD2	2.10	0.51
1:C:89:LEU:CB	1:C:207:PHE:CZ	2.93	0.51
1:A:1662:THR:CG2	2:B:1899:GLY:H	2.23	0.51
2:B:3048:PHE:HD2	2:B:3052:PHE:HB3	1.74	0.51
2:B:3305:GLU:HG3	2:B:3319:VAL:HG11	1.90	0.51
2:D:2444:ALA:HB3	2:D:2446:ILE:HB	1.92	0.51
2:D:3056:LEU:CD2	2:D:3187:LEU:HD11	2.40	0.51
2:B:2976:LEU:HD22	2:B:3144:PHE:CD2	2.45	0.51
1:A:365:THR:HG23	1:A:366:VAL:N	2.26	0.51
2:B:1815:SER:OG	2:B:1820:HIS:CD2	2.63	0.51
1:C:1010:GLN:O	1:C:1013:ILE:HG13	2.10	0.51
1:A:878:GLU:HA	1:A:879:PRO:C	2.30	0.51
1:C:878:GLU:HA	1:C:879:PRO:C	2.30	0.51
2:D:1816:THR:HG23	2:D:1817:LYS:N	2.25	0.51
1:C:751:ASP:O	1:C:752:SER:HB2	2.10	0.51
1:C:666:HIS:CD2	1:C:687:MET:HG3	2.46	0.51
2:B:2958:GLU:O	2:B:2959:LYS:HB2	2.09	0.51
1:A:1609:LYS:HD3	1:A:1609:LYS:O	2.10	0.51
2:D:3009:PHE:CE1	2:D:3019:PHE:CD1	2.99	0.51
2:B:2219:ASP:HB3	2:B:2269:GLY:HA3	1.93	0.51
2:D:2256:PHE:HZ	2:D:2294:VAL:HG22	1.69	0.51
2:B:2220:VAL:HG12	2:B:2221:GLN:N	2.25	0.51
1:C:911:GLN:OE1	1:C:1096:THR:HG21	2.10	0.51
1:A:89:LEU:CB	1:A:207:PHE:CZ	2.93	0.51
1:A:234:MET:HE2	1:A:241:LEU:HG	1.93	0.51
1:A:86:THR:HG23	1:A:87:SER:N	2.24	0.51
1:C:241:LEU:C	1:C:241:LEU:HD13	2.31	0.51
1:A:1662:THR:HG21	2:B:1898:SER:HA	1.91	0.51
1:C:1077:MET:O	1:C:1102:PRO:HD2	2.11	0.51
2:B:2963:CYS:SG	2:B:3093:LEU:HD11	2.51	0.51
2:B:1811:LEU:HD23	2:B:1811:LEU:C	2.31	0.51
1:A:1161:ILE:HD13	1:A:1198:LYS:NZ	2.24	0.51
2:D:2093:GLU:CA	2:D:2096:ILE:HG22	2.41	0.51
1:A:578:LEU:CD1	1:A:604:THR:HG21	2.27	0.51
2:D:2984:ALA:O	2:D:2988:HIS:HD2	1.94	0.51
1:C:1567:PHE:HE1	1:C:1610:ALA:HB1	1.74	0.51
1:C:1605:LEU:C	1:C:1605:LEU:HD13	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3220:LYS:O	2:D:3261:LEU:HD13	2.10	0.51
2:D:1960:ILE:O	2:D:1964:VAL:HG13	2.10	0.51
1:A:751:ASP:O	1:A:752:SER:HB2	2.10	0.51
1:C:1503:THR:HG23	1:C:1504:LYS:N	2.24	0.51
1:C:1296:PRO:HD3	1:C:1381:HIS:CD2	2.46	0.51
1:C:1401:TYR:HE2	1:C:1405:LEU:HD22	1.75	0.51
1:C:889:LYS:HE2	1:C:891:PHE:CZ	2.46	0.51
1:C:788:LEU:O	1:C:789:ASP:HB2	2.09	0.51
2:B:1910:LYS:HE2	2:B:1933:LYS:CE	2.41	0.51
2:D:2200:MET:HG3	2:D:2201:PRO:HD2	1.92	0.51
1:C:1573:GLY:O	1:C:1574:GLU:HB2	2.10	0.51
2:D:2405:LYS:HG2	2:D:2406:THR:N	2.25	0.51
2:B:3034:ASP:HB3	2:B:3084:GLY:HA3	1.93	0.51
2:D:2118:ILE:HG23	2:D:2157:PHE:CZ	2.46	0.51
2:D:2273:TYR:CD2	2:D:2280:TYR:CZ	2.99	0.51
2:B:2236:LEU:C	2:B:2236:LEU:HD13	2.31	0.51
2:B:2214:THR:HG21	2:B:2273:TYR:CD2	2.45	0.51
2:D:1793:ILE:HG21	2:D:1796:GLU:HB3	1.93	0.51
1:C:1244:GLU:HG2	1:C:1245:GLY:H	1.76	0.51
1:C:1262:ILE:HD12	1:C:1353:PRO:HB3	1.91	0.51
1:C:495:VAL:HG13	1:C:496:THR:N	2.26	0.51
1:C:552:GLU:HG3	1:C:554:ASN:HB2	1.91	0.51
1:A:197:LEU:C	1:A:197:LEU:HD13	2.31	0.51
1:A:23:LEU:HD12	1:A:26:LEU:HD23	1.93	0.51
1:A:1460:ARG:HB3	1:A:1523:TYR:CE1	2.46	0.51
1:A:694:TYR:CE2	1:A:695:GLU:HG3	2.46	0.51
1:C:262:SER:O	1:C:264:PRO:HD3	2.11	0.51
1:C:94:TRP:NE1	1:C:144:PHE:CE2	2.79	0.51
1:C:907:LEU:CD2	1:C:1112:PHE:HZ	2.23	0.51
2:B:3311:ASP:H	2:B:3387:ASN:CB	2.22	0.51
2:B:2384:VAL:HG12	2:B:2438:THR:HA	1.93	0.51
2:D:1991:GLN:HB3	2:D:2000:GLU:O	2.11	0.51
1:A:905:HIS:NE2	3:A:9003:CUO:O2	2.43	0.51
1:A:748:LYS:CB	1:A:754:GLN:HG2	2.39	0.51
2:D:2713:ALA:HB1	2:D:2778:ILE:CD1	2.40	0.51
2:B:2622:LEU:CG	2:B:2683:TYR:HE1	2.20	0.51
1:A:853:LEU:HB3	1:A:959:TRP:CE2	2.44	0.51
2:B:2645:PHE:O	2:B:2649:GLN:HG2	2.11	0.51
1:A:674:SER:CB	1:A:675:PRO:HD3	2.38	0.51
2:D:2016:TRP:CZ3	2:D:2018:PHE:CE2	2.98	0.51
2:B:1977:PHE:CE1	2:B:2063:PRO:HG3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3166:ASP:O	2:D:3169:ARG:HG2	2.10	0.51
1:A:1:GLU:HG3	1:A:2:ASN:N	2.26	0.51
1:A:805:VAL:HG13	1:A:806:ASP:N	2.25	0.51
2:B:2743:ILE:HG23	2:B:2744:ASN:N	2.25	0.51
1:C:994:GLN:NE2	1:C:994:GLN:HA	2.25	0.51
2:D:2161:LEU:HB3	2:D:2166:SER:CB	2.41	0.51
2:D:2264:HIS:HB3	2:D:2419:LEU:HD12	1.93	0.51
2:B:2118:ILE:HD11	2:B:2156:GLN:HG3	1.93	0.51
2:B:2264:HIS:HB3	2:B:2419:LEU:HD12	1.93	0.51
2:B:2326:MET:O	2:B:2329:PHE:HB2	2.11	0.51
1:C:1262:ILE:CA	1:C:1265:LEU:HD23	2.38	0.51
1:C:1242:HIS:CG	1:C:1476:TYR:CE1	2.98	0.51
1:C:1515:TYR:CG	1:C:1519:PHE:HB2	2.46	0.51
1:A:94:TRP:NE1	1:A:144:PHE:CE2	2.79	0.51
1:A:144:PHE:O	1:A:147:VAL:HG12	2.10	0.51
1:A:676:LEU:CD2	1:A:1365:ARG:HA	2.40	0.51
1:A:1311:HIS:CE1	1:A:1442:LEU:HD21	2.46	0.51
1:A:1320:HIS:HD2	1:A:1455:HIS:CD2	2.29	0.51
1:C:168:PHE:HE1	1:C:217:PHE:CE1	2.29	0.51
1:C:234:MET:HE2	1:C:241:LEU:HG	1.92	0.51
1:C:160:LEU:HD11	1:C:294:LEU:HD21	1.91	0.51
1:A:1657:THR:CB	2:B:1898:SER:OG	2.59	0.51
2:B:3054:LEU:N	2:B:3054:LEU:HD22	2.25	0.51
1:C:1212:ILE:HD11	1:C:1232:PRO:HB2	1.93	0.51
2:B:3308:ILE:HG23	2:B:3309:GLY:N	2.24	0.51
2:B:3325:LYS:HD3	2:B:3367:TYR:CB	2.41	0.51
2:D:3187:LEU:CD1	2:D:3190:VAL:HG11	2.41	0.51
1:A:743:VAL:HG13	1:A:800:VAL:CG1	2.41	0.51
1:C:1568:VAL:CG1	1:C:1622:PHE:CD1	2.94	0.51
2:B:3209:ILE:HD12	2:B:3235:ILE:HG21	1.93	0.51
1:A:1126:ILE:N	1:A:1126:ILE:HD12	2.25	0.51
1:C:1394:LEU:N	1:C:1394:LEU:HD22	2.26	0.51
2:B:2636:ASN:HB2	2:B:2644:SER:OG	2.11	0.51
2:D:3209:ILE:O	2:D:3210:ARG:HB2	2.11	0.51
2:D:3209:ILE:HD12	2:D:3235:ILE:HG21	1.93	0.51
1:A:666:HIS:CD2	1:A:687:MET:HG3	2.46	0.51
1:A:1063:ARG:HD2	1:A:1065:LYS:HD3	1.93	0.51
1:C:1202:LEU:HD13	1:C:1204:LEU:HD11	1.92	0.51
1:A:253:ASN:HD22	1:A:255:ILE:CG2	2.23	0.51
2:B:2141:HIS:CD2	2:B:2146:PHE:CE2	2.99	0.51
2:B:2432:LEU:HD21	2:B:2481:THR:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2195:TRP:CD2	2:D:1922:TYR:CD1	2.99	0.51
1:C:1320:HIS:HD2	1:C:1455:HIS:CD2	2.29	0.51
1:C:442:ALA:C	1:C:505:ARG:HD3	2.31	0.51
1:A:160:LEU:HD11	1:A:294:LEU:HD21	1.92	0.51
1:A:1322:LEU:HD11	1:A:1506:HIS:CB	2.38	0.51
1:A:442:ALA:C	1:A:505:ARG:HD3	2.31	0.51
1:A:440:ARG:NH2	1:A:540:HIS:HD2	2.09	0.51
1:C:179:HIS:ND1	1:C:209:HIS:NE2	2.59	0.51
1:C:168:PHE:HE1	1:C:217:PHE:CZ	2.28	0.51
1:C:42:HIS:HA	1:C:68:TRP:CH2	2.46	0.51
2:B:1907:ASN:OD1	2:B:1908:LEU:HD12	2.11	0.51
2:B:3056:LEU:CD2	2:B:3187:LEU:HD11	2.40	0.51
2:B:1851:HIS:CA	2:B:1862:ILE:HG22	2.39	0.51
1:A:1156:LEU:HD11	1:A:1173:GLU:HB3	1.92	0.51
1:C:1161:ILE:HD13	1:C:1198:LYS:NZ	2.24	0.51
2:B:3340:LEU:HD22	2:B:3377:THR:HG21	1.92	0.51
1:C:1228:LEU:N	1:C:1228:LEU:HD23	2.26	0.51
2:B:2045:VAL:HG12	2:B:2046:THR:N	2.24	0.51
1:C:598:PHE:CZ	1:C:636:VAL:CG1	2.94	0.51
1:C:486:ILE:CD1	1:C:662:LEU:HG	2.30	0.51
1:C:1567:PHE:CE2	1:C:1580:SER:CB	2.94	0.51
2:B:2996:TYR:HE1	2:B:3175:ASP:OD1	1.93	0.51
2:B:3209:ILE:O	2:B:3210:ARG:HB2	2.11	0.51
1:A:1345:TRP:CZ3	1:A:1400:PHE:CD2	2.99	0.51
2:D:2636:ASN:HB2	2:D:2644:SER:OG	2.11	0.51
2:B:2761:TYR:CA	2:B:2764:PHE:HD1	2.24	0.51
1:C:729:TYR:CD1	1:C:821:ILE:CD1	2.94	0.51
2:B:2134:ASN:O	2:B:2135:GLU:HG3	2.10	0.51
2:D:2964:VAL:HG11	2:D:2969:ILE:HD11	1.92	0.51
1:A:101:LEU:CD2	1:A:137:ARG:HH22	2.24	0.51
2:D:2743:ILE:HG23	2:D:2744:ASN:N	2.25	0.51
2:B:2837:TRP:CZ3	2:B:2839:PHE:CE2	2.98	0.51
1:C:914:ASN:HA	1:C:917:ARG:HG2	1.93	0.51
1:C:993:LYS:HE3	1:C:1197:GLU:OE2	2.10	0.51
2:D:2175:TRP:CH2	2:D:2266:LEU:CD2	2.94	0.51
2:B:2275:LEU:H	2:B:2275:LEU:CD2	2.23	0.51
2:D:1741:PHE:CE1	2:D:1875:TYR:CE1	2.99	0.51
1:C:1249:GLN:HB3	1:C:1251:GLU:OE1	2.10	0.51
1:C:1463:ALA:O	1:C:1466:GLN:HB2	2.11	0.51
1:C:552:GLU:CG	1:C:554:ASN:HB2	2.41	0.51
1:A:42:HIS:HA	1:A:68:TRP:CH2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:19:LEU:HD13	1:A:85:ARG:CD	2.41	0.51
1:A:1254:SER:H	1:A:1522:ALA:HB2	1.76	0.51
1:A:544:PHE:HD1	1:A:631:PHE:HZ	1.56	0.51
1:A:698:LEU:CD1	1:A:700:TYR:HD1	2.22	0.51
1:A:715:ILE:HG23	1:A:716:GLU:N	2.25	0.51
1:C:144:PHE:O	1:C:147:VAL:HG12	2.10	0.51
1:C:161:ASP:HA	1:C:297:ARG:HH12	1.76	0.51
2:D:3325:LYS:HD3	2:D:3367:TYR:CB	2.41	0.51
2:B:1724:VAL:O	2:B:1724:VAL:HG12	2.10	0.51
1:C:602:HIS:ND1	1:C:632:HIS:NE2	2.57	0.51
1:C:802:ILE:HD12	1:C:810:LEU:HD12	1.92	0.51
1:C:1626:ILE:HG13	1:C:1626:ILE:O	2.11	0.51
2:B:3274:LEU:C	2:B:3274:LEU:HD13	2.32	0.51
2:B:2526:VAL:HA	2:B:2584:HIS:NE2	2.26	0.51
2:D:2627:THR:HG21	2:D:2681:THR:OG1	2.10	0.51
2:B:2148:HIS:HD2	2:B:2345:PRO:O	1.94	0.51
1:A:1394:LEU:HD22	1:A:1394:LEU:N	2.26	0.51
1:C:1345:TRP:CZ3	1:C:1400:PHE:CD2	2.99	0.51
2:D:2148:HIS:HD2	2:D:2345:PRO:O	1.94	0.51
2:D:2568:HIS:CE1	2:D:2732:MET:HE1	2.46	0.51
2:D:2571:ARG:HD2	2:D:2708:TRP:CZ3	2.46	0.51
2:D:2572:LEU:CD2	2:D:2764:PHE:HE2	2.20	0.51
1:A:729:TYR:CB	1:A:821:ILE:HD11	2.38	0.51
2:B:3110:ASP:O	2:B:3114:ILE:HD13	2.11	0.51
1:C:117:LYS:HG2	1:C:118:ALA:N	2.26	0.51
1:A:117:LYS:HG2	1:A:118:ALA:N	2.26	0.51
2:B:1977:PHE:CD1	2:B:2063:PRO:HB3	2.46	0.51
2:B:1974:PHE:CE2	2:B:2025:ASP:HB2	2.46	0.51
2:B:3009:PHE:CE1	2:B:3019:PHE:CD1	2.99	0.51
2:D:3019:PHE:O	2:D:3100:PRO:HB2	2.11	0.51
2:B:1920:ALA:CB	2:B:1921:PRO:HA	2.30	0.51
1:C:1476:TYR:CD2	1:C:1477:ARG:CB	2.88	0.51
1:C:1460:ARG:HB3	1:C:1523:TYR:CE1	2.46	0.51
1:C:442:ALA:HB1	1:C:505:ARG:HD2	1.92	0.51
1:A:97:PRO:HD3	1:A:153:THR:HG21	1.92	0.51
1:A:183:HIS:CE1	1:A:194:MET:HE3	2.46	0.51
1:A:433:ARG:HA	1:A:436:VAL:HG12	1.91	0.51
1:A:549:ILE:HG22	1:A:552:GLU:H	1.76	0.51
1:C:19:LEU:HD13	1:C:85:ARG:CD	2.41	0.51
2:D:2384:VAL:HG12	2:D:2438:THR:HA	1.93	0.51
2:B:2402:GLN:HA	2:B:2411:HIS:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1729:THR:HG22	2:B:1729:THR:O	2.10	0.51
2:B:1991:GLN:HB3	2:B:2000:GLU:O	2.11	0.51
1:A:481:VAL:HB	1:A:486:ILE:CG2	2.40	0.51
2:D:2777:THR:HG22	2:D:2780:LYS:CB	2.41	0.51
2:B:2624:VAL:HG22	2:B:2625:ASP:H	1.76	0.51
2:B:2981:PHE:CD2	2:B:3103:MET:HB3	2.46	0.51
1:C:322:VAL:CB	1:C:379:VAL:HG12	2.41	0.51
1:C:365:THR:HG23	1:C:366:VAL:N	2.26	0.51
1:C:578:LEU:O	1:C:582:ILE:HG13	2.10	0.51
1:C:1566:VAL:HG22	1:C:1626:ILE:CA	2.39	0.51
1:A:325:PRO:HG2	1:A:376:HIS:ND1	2.25	0.51
1:A:964:ILE:HG12	1:A:1038:PHE:CE2	2.45	0.51
1:C:1022:VAL:HG21	1:C:1041:LEU:HD21	1.92	0.51
2:D:1931:PHE:CE1	2:D:1942:LYS:CB	2.94	0.51
1:A:1228:LEU:HD23	1:A:1228:LEU:N	2.26	0.51
1:A:1379:ILE:CD1	1:A:1444:TYR:CD1	2.94	0.51
2:B:2377:ASP:HA	2:B:2380:HIS:CE1	2.46	0.51
2:D:1674:LEU:HD11	2:D:1755:PRO:CB	2.40	0.51
2:B:1838:ASP:HA	2:B:2020:ARG:HD2	1.92	0.51
2:D:1977:PHE:CD1	2:D:2063:PRO:HB3	2.46	0.51
2:D:1974:PHE:CE2	2:D:2025:ASP:HB2	2.46	0.51
2:D:2189:LYS:HG3	2:D:2190:GLU:N	2.26	0.51
1:A:914:ASN:HA	1:A:917:ARG:HG2	1.93	0.51
2:D:2219:ASP:HB3	2:D:2269:GLY:HA3	1.93	0.51
2:D:1665:VAL:HG12	2:D:1665:VAL:O	2.10	0.51
2:B:2118:ILE:HG23	2:B:2157:PHE:CZ	2.46	0.50
2:B:2175:TRP:CH2	2:B:2266:LEU:CD2	2.94	0.50
2:B:2354:LEU:HB2	2:B:2356:TYR:HD1	1.75	0.50
2:B:1701:ILE:CG2	2:B:1741:PHE:CZ	2.94	0.50
2:D:1737:TYR:CZ	2:D:1741:PHE:CE1	2.96	0.50
2:D:2542:HIS:CE1	2:D:2688:LEU:HD12	2.35	0.50
1:C:874:ALA:CB	1:C:881:TRP:HE1	2.24	0.50
1:C:1427:LEU:O	1:C:1427:LEU:HD13	2.10	0.50
1:C:498:VAL:HG13	1:C:499:GLU:N	2.26	0.50
1:A:194:MET:HG3	1:A:200:THR:OG1	2.11	0.50
1:A:210:HIS:HA	1:A:213:VAL:CG2	2.37	0.50
1:A:275:TYR:HE1	1:A:277:TYR:CE2	2.29	0.50
1:A:440:ARG:HH22	1:A:540:HIS:HD2	1.57	0.50
1:A:698:LEU:CG	1:A:700:TYR:CD1	2.95	0.50
1:C:104:LEU:CB	1:C:123:TRP:CZ3	2.95	0.50
1:C:146:LYS:NZ	1:C:148:LYS:CE	2.71	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1547:ASP:HB3	1:A:1648:PHE:HZ	1.72	0.50
2:B:3071:TYR:CE1	2:B:3109:LEU:CD2	2.94	0.50
2:D:1763:ARG:NH1	2:D:1763:ARG:HB2	2.25	0.50
2:D:2185:LEU:H	2:D:2185:LEU:CD2	2.23	0.50
2:B:2713:ALA:HB1	2:B:2778:ILE:CD1	2.40	0.50
1:C:659:ALA:HB1	1:C:662:LEU:HB3	1.93	0.50
1:A:1420:LEU:HD12	1:A:1423:LEU:HD21	1.93	0.50
1:C:995:VAL:HG21	1:C:1121:PHE:CE1	2.46	0.50
2:D:3062:ASP:OD2	2:D:3125:LYS:HD3	2.11	0.50
2:B:2663:GLU:OE2	2:B:2667:GLU:HB2	2.10	0.50
2:D:1815:SER:OG	2:D:1820:HIS:CD2	2.63	0.50
1:C:729:TYR:CB	1:C:821:ILE:HD11	2.38	0.50
1:A:1124:LEU:HD22	1:A:1128:GLN:HG3	1.91	0.50
1:C:232:LYS:HE2	1:C:232:LYS:CA	2.41	0.50
1:A:889:LYS:HE2	1:A:891:PHE:CZ	2.46	0.50
1:C:891:PHE:HB3	1:C:1183:MET:HG2	1.93	0.50
1:A:253:ASN:HD22	1:A:255:ILE:HG22	1.75	0.50
1:C:1531:TYR:HD1	1:C:1535:GLN:NE2	2.08	0.50
2:D:2275:LEU:H	2:D:2275:LEU:CD2	2.23	0.50
2:D:2326:MET:O	2:D:2329:PHE:HB2	2.11	0.50
2:B:2243:ALA:O	2:B:2252:PHE:HD1	1.94	0.50
2:B:2258:VAL:HA	2:B:2261:ASN:OD1	2.11	0.50
2:B:1716:ALA:H	2:B:1719:ARG:HE	1.60	0.50
1:C:694:TYR:CE2	1:C:695:GLU:CG	2.95	0.50
1:A:122:TYR:CG	1:A:123:TRP:N	2.79	0.50
1:A:1655:ALA:O	2:B:1898:SER:CB	2.59	0.50
2:D:3341:ASN:N	2:D:3341:ASN:HD22	2.08	0.50
1:A:1568:VAL:CG1	1:A:1622:PHE:CD1	2.94	0.50
1:A:1159:PHE:CE2	1:A:1171:ALA:CB	2.95	0.50
2:D:1734:HIS:HD2	2:D:1878:HIS:CD2	2.29	0.50
2:B:3308:ILE:HG22	2:B:3312:VAL:CG2	2.41	0.50
2:D:2402:GLN:HA	2:D:2411:HIS:O	2.11	0.50
1:C:905:HIS:NE2	3:C:9003:CUO:O2	2.43	0.50
2:D:1990:PHE:CE2	2:D:2002:ALA:CB	2.94	0.50
1:A:598:PHE:CE2	1:A:636:VAL:HG13	2.46	0.50
1:A:732:PHE:HB2	1:A:734:LEU:HD11	1.93	0.50
1:A:860:LEU:HD21	1:A:869:PHE:HD1	1.76	0.50
1:A:1469:GLN:CG	1:A:1474:ARG:HB2	2.30	0.50
1:A:930:TRP:CE3	1:A:1018:ILE:CD1	2.94	0.50
1:C:1014:ALA:HA	1:C:1017:TYR:CE1	2.47	0.50
1:A:973:ARG:HD2	1:A:1022:VAL:HG11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2382:VAL:CG1	2:B:2484:TYR:CE1	2.95	0.50
1:A:232:LYS:HE2	1:A:232:LYS:CA	2.41	0.50
1:A:1202:LEU:HD13	1:A:1204:LEU:HD11	1.92	0.50
2:D:2858:TYR:HE1	2:D:2886:VAL:HG12	1.75	0.50
1:C:532:TYR:CE2	1:C:534:ASP:CA	2.94	0.50
1:A:532:TYR:CE2	1:A:534:ASP:CA	2.94	0.50
2:B:1680:LEU:HD13	2:B:1680:LEU:C	2.31	0.50
2:D:2083:LYS:HZ2	2:D:2158:GLU:HB3	1.75	0.50
2:B:2273:TYR:CD2	2:B:2280:TYR:CZ	2.99	0.50
2:B:1793:ILE:HG21	2:B:1796:GLU:HB3	1.93	0.50
1:A:874:ALA:CB	1:A:881:TRP:HE1	2.24	0.50
1:C:1310:VAL:HG22	1:C:1319:TRP:CB	2.41	0.50
1:C:549:ILE:CD1	1:C:622:TYR:CD1	2.94	0.50
1:C:549:ILE:HG22	1:C:552:GLU:H	1.76	0.50
1:A:1343:TRP:HZ3	1:A:1431:LEU:HD11	1.76	0.50
1:A:1463:ALA:O	1:A:1466:GLN:HB2	2.11	0.50
1:A:1467:ASP:CB	1:A:1470:ARG:HH12	2.24	0.50
1:A:446:PHE:CE2	1:A:455:TYR:CA	2.94	0.50
1:A:513:TYR:CD1	1:A:638:ARG:CD	2.95	0.50
1:A:513:TYR:CG	1:A:638:ARG:CD	2.95	0.50
2:D:3205:VAL:HG11	2:D:3314:LEU:HD12	1.93	0.50
2:D:3308:ILE:HG22	2:D:3312:VAL:CG2	2.41	0.50
2:B:2493:ASP:HB3	2:B:2506:LYS:HD3	1.93	0.50
2:B:3002:THR:HG22	2:B:3048:PHE:HE1	1.76	0.50
2:D:1769:LEU:O	2:D:1769:LEU:HD23	2.11	0.50
2:D:1843:PHE:CE1	2:D:1884:ILE:CD1	2.95	0.50
2:B:1763:ARG:HB2	2:B:1763:ARG:NH1	2.26	0.50
1:C:1159:PHE:CE2	1:C:1171:ALA:CB	2.95	0.50
2:B:3263:LEU:HB3	2:B:3267:HIS:HE1	1.76	0.50
2:B:3304:ILE:HA	2:B:3325:LYS:HB3	1.93	0.50
2:B:2026:ILE:HD12	2:B:2030:LEU:HD21	1.94	0.50
1:A:482:HIS:HD2	1:A:487:PHE:CD2	2.28	0.50
2:D:3082:ILE:HD12	2:D:3082:ILE:N	2.27	0.50
2:B:2093:GLU:CA	2:B:2096:ILE:HG22	2.41	0.50
1:C:732:PHE:HB2	1:C:734:LEU:HD11	1.93	0.50
1:A:1070:ALA:HB3	1:A:1077:MET:CE	2.42	0.50
1:C:931:THR:HG22	1:C:991:ILE:HG13	1.92	0.50
2:D:3274:LEU:C	2:D:3274:LEU:HD13	2.32	0.50
2:B:3021:LYS:HG2	2:B:3031:THR:O	2.11	0.50
2:B:1931:PHE:CE1	2:B:1942:LYS:CB	2.94	0.50
1:C:1379:ILE:CD1	1:C:1444:TYR:CD1	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2962:CYS:HB3	2:D:3143:PRO:CD	2.41	0.50
2:D:2136:VAL:CB	2:D:2425:MET:HB2	2.36	0.50
2:D:2382:VAL:CG1	2:D:2484:TYR:CE1	2.95	0.50
2:D:2377:ASP:HA	2:D:2380:HIS:CE1	2.46	0.50
2:D:3136:ILE:O	2:D:3139:VAL:HG12	2.12	0.50
2:D:1838:ASP:HA	2:D:2020:ARG:HD2	1.92	0.50
2:B:3166:ASP:O	2:B:3169:ARG:HG2	2.10	0.50
2:B:3019:PHE:O	2:B:3100:PRO:HB2	2.11	0.50
1:A:396:LEU:HD12	1:A:396:LEU:N	2.26	0.50
2:D:2085:ARG:HG2	2:D:2169:ALA:CB	2.42	0.50
2:B:2305:GLN:OE1	2:B:2305:GLN:HA	2.12	0.50
1:C:468:CYS:SG	1:C:668:LYS:HE2	2.52	0.50
1:A:94:TRP:NE1	1:A:144:PHE:CZ	2.80	0.50
1:A:1515:TYR:CG	1:A:1519:PHE:HB2	2.45	0.50
1:A:615:PHE:CD1	1:A:622:TYR:CE1	2.98	0.50
1:C:275:TYR:HE1	1:C:277:TYR:CE2	2.29	0.50
2:D:3304:ILE:HA	2:D:3325:LYS:HB3	1.93	0.50
1:A:1605:LEU:HD13	1:A:1605:LEU:C	2.31	0.50
2:D:1759:TRP:CH2	2:D:1877:HIS:CB	2.94	0.50
2:B:1730:PHE:HD1	2:B:1731:PRO:CD	2.23	0.50
2:B:3205:VAL:HG11	2:B:3314:LEU:HD12	1.93	0.50
2:D:3043:THR:HG22	2:D:3044:LYS:N	2.27	0.50
2:D:3002:THR:HG22	2:D:3048:PHE:HE1	1.76	0.50
2:D:2026:ILE:HD12	2:D:2030:LEU:HD21	1.94	0.50
1:A:582:ILE:O	1:A:586:PHE:HD1	1.94	0.50
1:A:405:PRO:HG3	1:A:657:HIS:HB2	1.88	0.50
1:C:516:TRP:CG	1:C:605:ILE:CD1	2.94	0.50
1:C:1550:PHE:CD2	1:C:1606:ASP:HA	2.47	0.50
2:D:1907:ASN:OD1	2:D:1908:LEU:HD12	2.11	0.50
1:A:853:LEU:CB	1:A:959:TRP:HZ2	2.17	0.50
2:B:1816:THR:HG23	2:B:1817:LYS:N	2.25	0.50
2:B:2605:PHE:HE2	2:B:2614:PHE:CZ	2.30	0.50
2:B:1689:MET:HE2	2:B:1698:PHE:HD1	1.75	0.50
2:B:2811:PHE:CE2	2:B:2823:ALA:CB	2.95	0.50
1:A:592:CYS:HB3	1:A:775:ARG:NH1	2.26	0.50
2:D:2220:VAL:HG12	2:D:2221:GLN:N	2.25	0.50
2:D:2305:GLN:HA	2:D:2305:GLN:OE1	2.12	0.50
2:B:2152:LEU:CD2	2:B:2329:PHE:CG	2.95	0.50
2:B:1741:PHE:CE1	2:B:1875:TYR:CE1	2.99	0.50
2:D:1701:ILE:CG2	2:D:1741:PHE:CZ	2.94	0.50
2:D:2577:MET:HE1	2:D:2698:TRP:CZ2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:911:GLN:HE22	1:C:1091:ASN:HD21	1.58	0.50
1:C:1248:TYR:HB3	1:C:1470:ARG:HH11	1.75	0.50
1:C:1254:SER:H	1:C:1522:ALA:HB2	1.76	0.50
1:C:710:ILE:HG23	1:C:714:ASN:HB3	1.94	0.50
1:A:168:PHE:HE1	1:A:217:PHE:CE1	2.29	0.50
1:A:156:MET:CE	1:A:285:MET:HE2	2.41	0.50
1:A:1259:ARG:HG3	1:A:1339:ALA:CB	2.42	0.50
1:A:1467:ASP:HB2	1:A:1470:ARG:NH1	2.27	0.50
1:A:1442:LEU:CD2	1:A:1589:LEU:HD12	2.38	0.50
1:A:694:TYR:CE2	1:A:695:GLU:CG	2.94	0.50
1:C:94:TRP:NE1	1:C:144:PHE:CZ	2.80	0.50
1:C:860:LEU:HD21	1:C:869:PHE:HD1	1.76	0.50
1:A:1626:ILE:O	1:A:1626:ILE:HG13	2.11	0.50
2:B:3187:LEU:CD1	2:B:3190:VAL:HG11	2.41	0.50
2:B:1804:ARG:HH11	2:B:1873:LEU:HD22	1.76	0.50
1:C:1156:LEU:HD13	1:C:1175:TYR:CE1	2.45	0.50
2:D:2403:ILE:HD12	2:D:2460:ILE:CD1	2.30	0.50
1:A:895:VAL:HG23	1:A:898:MET:HE1	1.91	0.50
1:A:905:HIS:HD2	1:A:1046:HIS:CD2	2.29	0.50
2:D:2981:PHE:CD2	2:D:3103:MET:HB3	2.46	0.50
2:B:2093:GLU:HA	2:B:2096:ILE:CG2	2.42	0.50
2:B:2602:LEU:HB3	2:B:2603:PRO:CD	2.42	0.50
1:C:309:LEU:N	1:C:309:LEU:HD12	2.27	0.50
1:A:1395:PHE:CZ	1:A:1430:LEU:CB	2.95	0.50
1:A:930:TRP:CD2	1:A:1018:ILE:CG1	2.95	0.50
1:C:930:TRP:CE3	1:C:1018:ILE:CD1	2.94	0.50
1:A:128:ILE:CG2	1:A:130:PHE:CE1	2.95	0.50
1:A:1190:VAL:HG12	1:A:1191:PHE:N	2.27	0.50
1:C:1628:ILE:HG23	1:C:1628:ILE:O	2.10	0.50
1:A:934:LEU:N	1:A:934:LEU:HD22	2.26	0.50
2:D:3020:PHE:CE2	2:D:3021:LYS:CE	2.95	0.50
1:C:165:GLN:HE21	1:C:171:PHE:HA	1.74	0.50
1:A:177:LEU:CD1	1:A:358:TYR:CD1	2.95	0.50
2:D:2217:VAL:CG1	2:D:2271:GLN:HG3	2.42	0.50
2:B:1887:ILE:HD13	2:B:1950:LEU:HB3	1.93	0.50
2:D:3034:ASP:HB3	2:D:3084:GLY:HA3	1.93	0.50
2:D:2140:ILE:HG21	2:D:2145:THR:HB	1.94	0.50
2:D:2258:VAL:HA	2:D:2261:ASN:OD1	2.11	0.50
2:D:2432:LEU:HD21	2:D:2481:THR:HG21	1.91	0.50
1:C:1365:ARG:HD3	1:C:1365:ARG:N	2.21	0.50
1:C:440:ARG:NH2	1:C:540:HIS:HD2	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:LEU:HD13	1:A:241:LEU:C	2.31	0.50
1:A:1310:VAL:HG22	1:A:1319:TRP:CB	2.41	0.50
1:C:122:TYR:CG	1:C:123:TRP:N	2.79	0.50
1:C:1070:ALA:HB3	1:C:1077:MET:CE	2.42	0.50
2:B:3062:ASP:OD2	2:B:3125:LYS:HD3	2.11	0.50
2:B:3339:MET:HE2	2:B:3389:LEU:HD13	1.93	0.50
1:A:623:THR:HG23	1:A:624:ALA:N	2.25	0.50
1:C:905:HIS:HD2	1:C:1046:HIS:CD2	2.29	0.50
2:B:1733:TRP:CD1	2:B:1913:LEU:HD23	2.47	0.50
2:B:3082:ILE:HD12	2:B:3082:ILE:N	2.26	0.50
2:D:2624:VAL:HG22	2:D:2625:ASP:H	1.76	0.50
2:D:2687:THR:HG23	2:D:2690:TYR:H	1.76	0.50
2:D:2526:VAL:HA	2:D:2584:HIS:NE2	2.26	0.50
1:A:996:LEU:C	1:A:996:LEU:HD13	2.32	0.50
1:A:928:TRP:CZ3	1:A:1041:LEU:HD11	2.45	0.50
2:B:2571:ARG:HD2	2:B:2708:TRP:CZ3	2.46	0.50
1:C:964:ILE:CD1	1:C:1035:TYR:CD1	2.94	0.50
2:D:2148:HIS:CB	2:D:2348:VAL:HG21	2.42	0.50
1:A:1296:PRO:HD3	1:A:1381:HIS:CD2	2.46	0.50
2:B:2127:LYS:HZ1	2:B:2131:SER:HB2	1.74	0.50
2:D:3110:ASP:O	2:D:3114:ILE:HD13	2.12	0.50
2:D:3039:ILE:CG2	2:D:3040:PHE:H	2.19	0.50
1:C:1554:LEU:HD12	1:C:1554:LEU:N	2.26	0.50
2:D:2382:VAL:HG12	2:D:2383:ARG:N	2.27	0.50
2:D:1977:PHE:CE1	2:D:2063:PRO:HG3	2.44	0.50
2:D:2351:TYR:HB2	2:D:2356:TYR:CE1	2.47	0.50
2:D:2388:PHE:C	2:D:2432:LEU:HD12	2.32	0.50
2:B:2208:TYR:HB3	2:B:2215:TYR:CE1	2.47	0.50
2:B:2151:ARG:CZ	2:B:2298:TRP:CZ3	2.95	0.50
2:D:1716:ALA:H	2:D:1719:ARG:HE	1.60	0.50
2:D:1866:HIS:CE1	2:D:2012:LYS:HG2	2.47	0.50
1:C:1259:ARG:HG3	1:C:1339:ALA:CB	2.42	0.50
1:A:548:VAL:HA	1:A:556:PRO:CD	2.39	0.50
1:C:5:ARG:NH1	1:C:89:LEU:HD21	2.22	0.50
2:D:3327:MET:HG2	2:D:3328:PHE:N	2.27	0.50
1:C:940:LEU:HD11	1:C:959:TRP:CD1	2.47	0.50
2:B:1725:HIS:CD2	2:B:1734:HIS:HE1	2.29	0.50
2:D:2848:THR:CG2	2:D:2852:LYS:HE3	2.42	0.50
2:D:1994:ARG:HG3	2:D:1995:THR:H	1.77	0.50
1:A:746:PHE:HB2	1:A:755:HIS:O	2.12	0.50
2:D:2939:TYR:HE1	2:D:2981:PHE:HE1	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3007:PRO:HB2	2:D:3010:PHE:CD2	2.47	0.50
1:C:405:PRO:HG3	1:C:657:HIS:HB2	1.88	0.50
2:B:3243:PRO:CG	2:D:3354:PRO:CA	2.87	0.50
1:A:852:GLU:HB2	1:A:921:TYR:HE1	1.73	0.50
1:A:309:LEU:HD22	1:A:354:PHE:CE2	2.46	0.50
1:C:996:LEU:HD13	1:C:996:LEU:C	2.32	0.50
2:B:3204:PHE:CB	2:B:3206:LEU:HD21	2.42	0.50
2:D:1666:MET:HE3	2:D:1944:GLY:O	2.12	0.50
1:A:729:TYR:CD1	1:A:821:ILE:CD1	2.94	0.50
2:B:2822:PHE:CZ	2:B:2825:THR:CG2	2.95	0.50
2:D:2822:PHE:CZ	2:D:2825:THR:CG2	2.95	0.50
1:A:1554:LEU:N	1:A:1554:LEU:HD12	2.26	0.50
2:B:1829:LEU:HD13	2:B:1829:LEU:C	2.32	0.50
2:B:1687:GLU:HG3	2:B:1690:LYS:NZ	2.26	0.50
1:C:1:GLU:HG3	1:C:2:ASN:N	2.26	0.50
2:B:2294:VAL:HG13	2:B:2295:ASP:N	2.27	0.50
1:C:1310:VAL:O	1:C:1316:PHE:HD1	1.94	0.50
1:A:292:THR:HG23	1:A:293:TYR:N	2.27	0.50
1:A:552:GLU:HG3	1:A:554:ASN:CB	2.42	0.50
1:A:1567:PHE:CE2	1:A:1580:SER:CB	2.94	0.50
2:B:2493:ASP:OD2	2:B:3124:VAL:CG2	2.59	0.50
2:B:3043:THR:HG22	2:B:3044:LYS:N	2.27	0.50
2:B:3182:HIS:CD2	2:B:3186:GLU:OE2	2.65	0.50
2:D:1811:LEU:HD23	2:D:1811:LEU:C	2.31	0.50
2:B:1843:PHE:CE1	2:B:1884:ILE:CD1	2.95	0.50
1:A:1212:ILE:CD1	1:A:1232:PRO:HB2	2.41	0.50
1:C:1160:ASN:HA	1:C:1171:ALA:H	1.77	0.50
2:B:3341:ASN:N	2:B:3341:ASN:HD22	2.08	0.50
1:C:746:PHE:HB2	1:C:755:HIS:O	2.12	0.50
2:D:2628:ARG:NH1	2:D:2696:LEU:HD22	2.25	0.50
1:C:728:ILE:CG2	1:C:820:VAL:HG13	2.42	0.50
1:A:995:VAL:HG21	1:A:1121:PHE:CE1	2.46	0.50
2:B:2568:HIS:CD2	2:B:2708:TRP:CH2	2.99	0.50
2:B:3335:VAL:CG1	2:B:3383:LEU:HD21	2.39	0.50
2:D:2217:VAL:HG12	2:D:2271:GLN:HG3	1.93	0.50
1:C:1379:ILE:CD1	1:C:1447:PHE:CE2	2.95	0.50
2:D:2959:LYS:NZ	2:D:3240:LYS:HE2	2.27	0.50
2:D:2950:ASN:OD1	2:D:2961:PRO:HG3	2.12	0.50
2:D:2293:PHE:CE2	2:D:2297:VAL:CG2	2.95	0.50
2:D:1674:LEU:CD1	2:D:1755:PRO:HG3	2.40	0.50
2:D:1829:LEU:CD1	2:D:1833:GLN:HE22	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1887:ILE:HD13	2:D:1950:LEU:HB3	1.93	0.50
2:D:2060:ILE:HG13	2:D:2060:ILE:O	2.09	0.50
2:D:2560:THR:HB	2:D:2563:MET:HE3	1.94	0.50
2:B:1665:VAL:O	2:B:1665:VAL:HG12	2.10	0.50
2:D:2153:TYR:CZ	2:D:2157:PHE:CE1	2.95	0.50
2:D:2258:VAL:HG11	2:D:2433:PHE:HZ	1.75	0.50
2:B:2140:ILE:HG21	2:B:2145:THR:HB	1.94	0.50
2:B:2152:LEU:HD23	2:B:2329:PHE:CG	2.47	0.50
2:B:2289:ILE:HD12	2:B:2289:ILE:H	1.77	0.50
2:B:1714:PRO:HB2	2:B:1922:TYR:OH	2.12	0.50
2:B:1795:PHE:CG	2:B:1796:GLU:N	2.80	0.50
1:C:1248:TYR:HB3	1:C:1470:ARG:NH1	2.27	0.50
1:C:513:TYR:CD1	1:C:638:ARG:CD	2.95	0.50
1:C:549:ILE:HD13	1:C:622:TYR:HD1	1.76	0.50
1:C:565:ARG:HH11	1:C:567:PHE:HB3	1.76	0.50
1:A:159:VAL:HG23	1:A:160:LEU:N	2.27	0.50
2:B:1769:LEU:O	2:B:1769:LEU:HD23	2.11	0.50
2:D:1729:THR:HG22	2:D:1729:THR:O	2.10	0.50
2:D:3071:TYR:CE1	2:D:3109:LEU:CD2	2.94	0.50
2:B:1990:PHE:CE2	2:B:2002:ALA:CB	2.94	0.50
1:A:566:LEU:CD1	1:A:608:TRP:CE3	2.94	0.50
2:B:2687:THR:HG23	2:B:2690:TYR:H	1.76	0.50
1:A:1077:MET:O	1:A:1102:PRO:HD2	2.11	0.50
1:A:853:LEU:CD2	1:A:921:TYR:CE2	2.95	0.50
1:C:1541:GLN:O	1:C:1544:LYS:HB2	2.12	0.50
2:D:2645:PHE:O	2:D:2649:GLN:HG2	2.11	0.50
1:A:1143:PHE:CE2	1:A:1194:ASP:HB2	2.47	0.50
2:D:3021:LYS:HG2	2:D:3031:THR:O	2.11	0.50
2:D:1963:ILE:HG23	2:D:1964:VAL:N	2.27	0.50
2:D:1964:VAL:HG23	2:D:1965:ARG:N	2.26	0.50
1:A:373:LEU:HB3	1:A:403:HIS:CE1	2.46	0.50
1:C:373:LEU:HB3	1:C:403:HIS:CE1	2.46	0.50
2:D:2761:TYR:CA	2:D:2764:PHE:HD1	2.24	0.50
1:C:1207:GLU:HA	1:C:1207:GLU:OE1	2.12	0.50
2:B:1674:LEU:CD1	2:B:1755:PRO:HG3	2.40	0.50
2:D:1687:GLU:HG3	2:D:1690:LYS:NZ	2.26	0.50
2:B:2908:VAL:O	2:B:2908:VAL:HG13	2.12	0.50
2:D:2141:HIS:CD2	2:D:2146:PHE:CE2	2.99	0.49
2:D:2243:ALA:O	2:D:2252:PHE:HD1	1.94	0.49
2:B:2085:ARG:HG2	2:B:2169:ALA:CB	2.42	0.49
2:B:2180:HIS:HA	2:B:2225:PHE:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:911:GLN:HE22	1:A:1091:ASN:HD21	1.58	0.49
2:B:2535:TYR:O	2:B:2538:ILE:HG12	2.12	0.49
2:B:2538:ILE:HD13	2:B:2577:MET:CE	2.00	0.49
1:C:1467:ASP:HB2	1:C:1470:ARG:NH1	2.27	0.49
1:C:1589:LEU:C	1:C:1589:LEU:HD13	2.32	0.49
1:C:446:PHE:HE2	1:C:455:TYR:CD1	2.30	0.49
1:C:513:TYR:CG	1:C:638:ARG:CD	2.95	0.49
1:A:94:TRP:HB2	1:A:182:ILE:CD1	2.42	0.49
1:A:1248:TYR:HB3	1:A:1470:ARG:HH11	1.76	0.49
1:A:565:ARG:HH11	1:A:567:PHE:HB3	1.76	0.49
1:A:710:ILE:HG23	1:A:714:ASN:HB3	1.94	0.49
1:C:11:LEU:HD12	1:C:104:LEU:CD1	2.42	0.49
1:C:179:HIS:HD1	1:C:213:VAL:CG1	2.04	0.49
1:C:23:LEU:HD12	1:C:26:LEU:HD23	1.93	0.49
1:C:19:LEU:HD12	1:C:85:ARG:HD3	1.94	0.49
2:D:3263:LEU:HB3	2:D:3267:HIS:HE1	1.76	0.49
1:C:853:LEU:CD2	1:C:921:TYR:CE2	2.95	0.49
2:B:2973:TRP:CE3	2:B:2974:HIS:HD2	2.30	0.49
2:D:1839:PHE:CZ	2:D:1843:PHE:CD1	3.00	0.49
1:C:1212:ILE:CD1	1:C:1232:PRO:HB2	2.41	0.49
2:B:2403:ILE:O	2:B:2410:CYS:HA	2.12	0.49
2:B:2981:PHE:HE2	2:B:2994:ILE:HD12	1.77	0.49
2:D:1723:CYS:SG	2:D:2013:GLU:OE2	2.70	0.49
2:D:2622:LEU:CD1	2:D:2624:VAL:HG12	2.40	0.49
1:A:940:LEU:HD11	1:A:959:TRP:CD1	2.47	0.49
1:A:1392:ASP:CB	1:A:1395:PHE:CE1	2.95	0.49
1:C:1395:PHE:CE1	1:C:1430:LEU:CD2	2.95	0.49
2:D:3277:TYR:CG	2:D:3278:ASP:N	2.80	0.49
2:D:2811:PHE:CE2	2:D:2823:ALA:CB	2.95	0.49
2:D:3194:LEU:CD1	2:D:3194:LEU:H	2.25	0.49
2:D:2062:THR:HG23	2:D:2063:PRO:HD2	1.94	0.49
2:D:2242:LEU:C	2:D:2242:LEU:HD13	2.32	0.49
2:D:1680:LEU:C	2:D:1680:LEU:HD13	2.31	0.49
1:C:396:LEU:N	1:C:396:LEU:HD12	2.26	0.49
2:D:2118:ILE:CG2	2:D:2157:PHE:CZ	2.95	0.49
2:D:2180:HIS:HA	2:D:2225:PHE:CD2	2.47	0.49
2:D:2264:HIS:CB	2:D:2419:LEU:HD12	2.42	0.49
2:B:2388:PHE:N	2:B:2432:LEU:HD11	2.27	0.49
2:B:1860:TYR:HD2	2:B:1867:TYR:CE1	2.30	0.49
2:D:1714:PRO:HB2	2:D:1922:TYR:OH	2.12	0.49
1:C:1268:GLY:HA2	1:C:1271:GLU:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:LEU:CB	1:A:123:TRP:CZ3	2.94	0.49
1:A:19:LEU:HD21	1:A:123:TRP:CE2	2.45	0.49
1:A:549:ILE:CD1	1:A:622:TYR:CD1	2.94	0.49
1:C:182:ILE:HD12	1:C:209:HIS:ND1	2.28	0.49
1:C:292:THR:HG23	1:C:293:TYR:N	2.27	0.49
2:B:1839:PHE:CZ	2:B:1843:PHE:CD1	3.00	0.49
2:B:1759:TRP:HH2	2:B:1877:HIS:HB2	1.75	0.49
1:A:1212:ILE:HD11	1:A:1232:PRO:HB2	1.93	0.49
2:B:1734:HIS:HD2	2:B:1878:HIS:CD2	2.29	0.49
2:D:2093:GLU:HA	2:D:2096:ILE:CG2	2.42	0.49
2:D:2794:THR:O	2:D:2847:ILE:HG12	2.12	0.49
2:D:2973:TRP:CE3	2:D:2974:HIS:HD2	2.30	0.49
1:A:659:ALA:HB1	1:A:662:LEU:HB3	1.93	0.49
1:A:748:LYS:NZ	1:A:797:GLU:OE1	2.45	0.49
1:A:322:VAL:CB	1:A:379:VAL:HG12	2.41	0.49
1:A:309:LEU:HD12	1:A:309:LEU:N	2.27	0.49
1:A:1345:TRP:CZ2	1:A:1400:PHE:CE2	2.94	0.49
1:A:728:ILE:CG2	1:A:820:VAL:HG13	2.42	0.49
1:C:931:THR:CA	1:C:991:ILE:HG21	2.38	0.49
1:C:1128:GLN:HA	1:C:1131:LYS:HE2	1.94	0.49
1:A:674:SER:HB3	1:A:675:PRO:CD	2.41	0.49
1:A:232:LYS:HD3	1:A:269:ASP:OD1	2.12	0.49
1:C:1485:LEU:HD12	1:C:1485:LEU:H	1.77	0.49
2:D:2140:ILE:O	2:D:2140:ILE:HG23	2.13	0.49
2:D:2103:LEU:CD1	2:D:2204:PHE:CE2	2.95	0.49
2:B:2140:ILE:O	2:B:2140:ILE:HG23	2.12	0.49
2:B:2141:HIS:HA	2:B:2146:PHE:CD2	2.47	0.49
2:B:2118:ILE:CG2	2:B:2157:PHE:CZ	2.95	0.49
2:B:2217:VAL:HG12	2:B:2271:GLN:HG3	1.93	0.49
2:B:2149:TRP:CD1	2:B:2326:MET:CG	2.95	0.49
2:B:1714:PRO:HB3	2:B:1922:TYR:CZ	2.44	0.49
2:B:2523:MET:O	2:B:2527:MET:HG3	2.13	0.49
1:C:1365:ARG:CD	1:C:1365:ARG:H	2.22	0.49
1:C:698:LEU:CG	1:C:700:TYR:CD1	2.95	0.49
1:A:156:MET:HE3	1:A:285:MET:CE	2.42	0.49
1:C:194:MET:HG3	1:C:200:THR:OG1	2.11	0.49
1:C:852:GLU:CB	1:C:921:TYR:CD1	2.95	0.49
2:B:2999:TRP:CH2	2:B:3074:LEU:CD1	2.93	0.49
2:B:1682:LEU:HB3	2:B:1788:PHE:CZ	2.47	0.49
2:D:1912:PRO:C	2:D:1913:LEU:HD12	2.33	0.49
2:B:3363:LEU:HD22	2:B:3363:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2965:HIS:CD2	2:D:2970:PHE:CE1	3.00	0.49
1:A:516:TRP:HD1	1:A:578:LEU:HG	1.77	0.49
1:A:746:PHE:CZ	1:A:799:THR:CG2	2.95	0.49
2:B:2185:LEU:CD2	2:B:2185:LEU:H	2.23	0.49
2:B:3007:PRO:HB2	2:B:3010:PHE:CD2	2.47	0.49
1:C:598:PHE:CE2	1:C:636:VAL:HG13	2.46	0.49
1:C:810:LEU:CG	1:C:814:LEU:HD22	2.42	0.49
2:B:2847:ILE:HB	2:B:2851:LEU:HD11	1.94	0.49
2:B:2148:HIS:CG	2:B:2345:PRO:HB3	2.48	0.49
2:B:2148:HIS:CB	2:B:2348:VAL:HG21	2.42	0.49
1:C:930:TRP:CD2	1:C:1018:ILE:CG1	2.95	0.49
2:B:2797:ALA:CB	2:B:2842:LEU:HD13	2.43	0.49
2:D:3076:ASN:HB3	2:D:3236:LEU:CD1	2.42	0.49
2:D:2732:MET:CE	2:D:2759:PHE:CE2	2.95	0.49
1:C:679:ASN:OD1	1:C:681:LYS:HB2	2.12	0.49
2:B:2959:LYS:NZ	2:B:3240:LYS:HE2	2.27	0.49
2:D:2177:LYS:HZ3	2:D:2364:GLY:HA2	1.77	0.49
2:B:2293:PHE:CE2	2:B:2297:VAL:CG2	2.95	0.49
2:D:3136:ILE:HD12	2:D:3136:ILE:N	2.23	0.49
2:D:2887:GLU:HG2	2:D:2888:HIS:H	1.77	0.49
2:B:2717:TYR:CE1	2:B:2779:LYS:CD	2.96	0.49
2:B:2905:ASP:O	2:B:3171:ASN:HB3	2.11	0.49
2:D:2152:LEU:CD2	2:D:2329:PHE:CG	2.95	0.49
2:D:2327:ARG:CG	2:D:2331:TYR:CE1	2.95	0.49
2:B:2217:VAL:CG1	2:B:2271:GLN:HG3	2.42	0.49
1:C:560:ARG:HH22	1:C:628:LEU:HB3	1.77	0.49
1:C:694:TYR:CE2	1:C:695:GLU:HG3	2.46	0.49
1:A:1589:LEU:C	1:A:1589:LEU:HD13	2.32	0.49
1:A:495:VAL:HG13	1:A:496:THR:N	2.26	0.49
1:A:560:ARG:NH2	1:A:626:ASP:CG	2.66	0.49
1:C:5:ARG:HH22	1:C:73:VAL:HG23	1.77	0.49
1:C:89:LEU:CG	1:C:89:LEU:O	2.55	0.49
2:D:3319:VAL:C	2:D:3320:VAL:HG23	2.32	0.49
1:A:1607:ILE:CD1	1:A:1611:LEU:HD11	2.31	0.49
2:D:1682:LEU:HB3	2:D:1788:PHE:CZ	2.47	0.49
2:D:1806:ILE:CD1	2:D:1854:VAL:HG12	2.43	0.49
2:D:1733:TRP:CD1	2:D:1913:LEU:HD23	2.47	0.49
2:B:3216:LYS:CE	2:B:3229:TYR:HD2	2.24	0.49
2:B:1909:MET:HE3	2:B:1935:GLU:N	2.26	0.49
1:A:1075:THR:O	2:B:2457:PRO:HD2	2.12	0.49
1:A:957:ASN:N	1:A:957:ASN:HD22	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1121:PHE:O	1:C:1122:ASN:HB2	2.12	0.49
1:C:996:LEU:CD2	1:C:1129:LEU:HD11	2.43	0.49
2:D:3212:THR:HG22	2:D:3213:ALA:N	2.27	0.49
1:A:964:ILE:CD1	1:A:1035:TYR:CD1	2.94	0.49
1:C:1219:LEU:HD12	1:C:1219:LEU:C	2.32	0.49
1:C:1063:ARG:HD2	1:C:1065:LYS:HD3	1.93	0.49
2:B:2242:LEU:HD13	2:B:2242:LEU:C	2.32	0.49
1:C:592:CYS:HB3	1:C:775:ARG:NH1	2.26	0.49
2:D:2633:LYS:N	2:D:2633:LYS:HZ3	2.10	0.49
1:C:837:LEU:HD21	1:C:917:ARG:CZ	2.43	0.49
2:D:1992:VAL:HG13	2:D:2041:PHE:CD1	2.48	0.49
2:D:2659:PHE:HA	2:D:2711:TRP:CH2	2.47	0.49
2:D:2084:VAL:O	2:D:2169:ALA:HB3	2.12	0.49
2:D:2169:ALA:O	2:D:2171:PRO:HD3	2.12	0.49
2:D:2278:LEU:HA	2:D:2419:LEU:HD21	1.94	0.49
2:B:2103:LEU:CD1	2:B:2204:PHE:CE2	2.95	0.49
2:D:1795:PHE:CG	2:D:1796:GLU:N	2.80	0.49
1:C:1257:ARG:NH2	1:C:1332:LEU:HD23	2.28	0.49
1:C:1274:ARG:CA	1:C:1374:PHE:HE1	2.17	0.49
1:C:676:LEU:H	1:C:676:LEU:CD2	2.25	0.49
1:C:446:PHE:HE2	1:C:455:TYR:HD1	1.60	0.49
1:A:68:TRP:HA	1:A:245:MET:SD	2.53	0.49
1:A:1550:PHE:CD2	1:A:1606:ASP:HA	2.47	0.49
1:A:1566:VAL:HG22	1:A:1626:ILE:CB	2.43	0.49
1:A:1156:LEU:HD13	1:A:1175:TYR:CE1	2.45	0.49
2:D:1725:HIS:CD2	2:D:1734:HIS:HE1	2.29	0.49
2:D:2965:HIS:CD2	2:D:2970:PHE:HE1	2.31	0.49
1:A:516:TRP:CG	1:A:605:ILE:CD1	2.94	0.49
1:A:600:ILE:HD11	1:A:760:PHE:HB2	1.94	0.49
1:C:598:PHE:CE2	1:C:636:VAL:CG1	2.95	0.49
2:D:2717:TYR:CE1	2:D:2779:LYS:CD	2.96	0.49
2:B:3277:TYR:CG	2:B:3278:ASP:N	2.80	0.49
2:B:1964:VAL:HG23	2:B:1965:ARG:N	2.26	0.49
2:B:1963:ILE:HG23	2:B:1964:VAL:N	2.27	0.49
2:D:3204:PHE:CB	2:D:3206:LEU:HD21	2.42	0.49
2:D:2945:PHE:O	2:D:2962:CYS:HB2	2.13	0.49
2:B:2854:MET:HB3	2:B:2856:LEU:HG	1.94	0.49
2:B:1992:VAL:HG13	2:B:2041:PHE:CD1	2.48	0.49
2:D:2140:ILE:HG12	2:D:2143:MET:CG	2.43	0.49
2:D:2152:LEU:HD23	2:D:2329:PHE:CG	2.47	0.49
2:D:2208:TYR:HB3	2:D:2215:TYR:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1737:TYR:CZ	2:B:1741:PHE:CE1	2.96	0.49
1:C:1086:LEU:HB2	1:C:1090:ILE:HG21	1.94	0.49
1:C:1343:TRP:HZ3	1:C:1431:LEU:HD11	1.76	0.49
1:C:549:ILE:CD1	1:C:622:TYR:HD1	2.25	0.49
1:A:192:TYR:CE2	1:A:199:TYR:CE1	3.01	0.49
1:A:1310:VAL:O	1:A:1316:PHE:HD1	1.94	0.49
1:A:1242:HIS:HB2	1:A:1476:TYR:CE1	2.41	0.49
1:A:446:PHE:HE2	1:A:455:TYR:CD1	2.30	0.49
1:A:502:LEU:HB3	1:A:507:ALA:HB3	1.95	0.49
1:C:94:TRP:HB2	1:C:182:ILE:CD1	2.42	0.49
1:A:1567:PHE:CG	1:A:1568:VAL:N	2.81	0.49
2:B:2965:HIS:CD2	2:B:2970:PHE:CE1	3.00	0.49
2:D:1789:ILE:HG23	2:D:1790:GLY:N	2.28	0.49
1:A:1160:ASN:HA	1:A:1171:ALA:H	1.77	0.49
1:C:876:HIS:ND1	1:C:1042:PHE:CE2	2.81	0.49
2:B:1994:ARG:HG3	2:B:1995:THR:H	1.77	0.49
1:A:598:PHE:CZ	1:A:636:VAL:CG1	2.94	0.49
1:A:810:LEU:CG	1:A:814:LEU:HD22	2.42	0.49
2:B:2984:ALA:O	2:B:2988:HIS:HD2	1.94	0.49
2:B:2976:LEU:CD2	2:B:3155:THR:HG23	2.41	0.49
1:C:516:TRP:HD1	1:C:578:LEU:HG	1.77	0.49
1:C:582:ILE:O	1:C:586:PHE:HD1	1.94	0.49
1:C:566:LEU:CD1	1:C:608:TRP:CE3	2.94	0.49
1:C:746:PHE:CZ	1:C:799:THR:CG2	2.95	0.49
1:A:903:HIS:CG	1:A:1102:PRO:HB3	2.48	0.49
1:A:852:GLU:CB	1:A:921:TYR:CD1	2.95	0.49
1:A:839:ARG:HA	1:A:924:ALA:HB3	1.94	0.49
1:A:1541:GLN:O	1:A:1544:LYS:HB2	2.12	0.49
1:A:727:ARG:HA	1:A:782:THR:OG1	2.12	0.49
1:C:407:LYS:CA	1:C:653:PRO:HD2	2.43	0.49
1:A:130:PHE:HE1	1:A:202:TYR:CE2	2.31	0.49
1:C:128:ILE:CG2	1:C:130:PHE:CE1	2.95	0.49
2:D:3216:LYS:CE	2:D:3229:TYR:HD2	2.24	0.49
2:B:2647:TYR:CE1	2:B:2773:PHE:HE2	2.31	0.49
2:D:2732:MET:HA	2:D:2755:PRO:HB2	1.95	0.49
1:A:251:GLU:HG2	1:A:259:ASN:OD1	2.13	0.49
2:D:2647:TYR:CE1	2:D:2773:PHE:HE2	2.31	0.49
1:A:1379:ILE:CD1	1:A:1447:PHE:CE2	2.95	0.49
2:B:2945:PHE:O	2:B:2962:CYS:HB2	2.13	0.49
1:C:1059:LEU:HD11	1:C:1063:ARG:HH21	1.76	0.49
2:B:2947:GLY:HA3	2:B:3094:GLU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:891:PHE:HB3	1:A:1183:MET:HG2	1.93	0.49
2:B:2062:THR:HG23	2:B:2063:PRO:HD2	1.94	0.49
1:A:421:ASN:OD1	1:A:701:THR:HG21	2.12	0.49
2:B:3147:GLU:O	2:B:3148:SER:HB3	2.12	0.49
1:C:1475:PRO:HG2	1:C:1478:GLU:OE1	2.13	0.49
2:D:2141:HIS:CD2	2:D:2146:PHE:CD2	3.01	0.49
2:D:2175:TRP:HH2	2:D:2266:LEU:HD22	1.72	0.49
2:D:2103:LEU:CD1	2:D:2204:PHE:CZ	2.96	0.49
2:D:2388:PHE:N	2:D:2432:LEU:HD11	2.27	0.49
2:B:2140:ILE:CG1	2:B:2143:MET:HB2	2.33	0.49
2:B:2169:ALA:O	2:B:2171:PRO:HD3	2.12	0.49
2:B:2208:TYR:HB3	2:B:2215:TYR:HD1	1.76	0.49
2:B:2327:ARG:CG	2:B:2331:TYR:CE1	2.95	0.49
2:B:2264:HIS:CB	2:B:2419:LEU:HD12	2.42	0.49
2:D:2691:THR:HG23	2:D:2692:THR:N	2.27	0.49
1:C:544:PHE:CD1	1:C:631:PHE:CZ	2.95	0.49
1:A:5:ARG:HH22	1:A:73:VAL:HG23	1.77	0.49
1:A:1268:GLY:HA2	1:A:1271:GLU:OE1	2.13	0.49
2:D:3182:HIS:CD2	2:D:3186:GLU:OE2	2.65	0.49
1:A:604:THR:HG23	1:A:605:ILE:N	2.27	0.49
2:D:3144:PHE:HD2	2:D:3155:THR:HG23	1.76	0.49
1:A:322:VAL:HG11	1:A:369:MET:HE2	1.94	0.49
1:C:730:ALA:CB	1:C:781:ILE:HD11	2.43	0.49
1:C:1190:VAL:HG12	1:C:1191:PHE:N	2.27	0.49
1:A:1014:ALA:HA	1:A:1017:TYR:CE1	2.47	0.49
1:A:165:GLN:HE21	1:A:171:PHE:HA	1.75	0.49
1:A:246:GLU:HB3	1:A:247:PRO:CA	2.36	0.49
2:D:2754:LYS:O	2:D:2758:VAL:HG23	2.13	0.49
1:A:1207:GLU:HA	1:A:1207:GLU:OE1	2.12	0.49
2:B:1686:LEU:CD1	2:B:1689:MET:HE1	2.43	0.49
1:C:232:LYS:HD3	1:C:269:ASP:OD1	2.12	0.49
2:B:3336:THR:OG1	2:B:3338:PRO:HD2	2.13	0.49
2:D:3336:THR:OG1	2:D:3338:PRO:HD2	2.13	0.49
2:B:1829:LEU:CD1	2:B:1833:GLN:HE22	2.24	0.49
2:D:3009:PHE:HE1	2:D:3019:PHE:CD1	2.31	0.49
2:B:2103:LEU:HA	2:B:2106:LEU:HD12	1.95	0.49
2:B:2249:TYR:HD2	2:B:2301:TRP:CH2	2.31	0.49
2:B:2143:MET:HE1	2:B:2321:LEU:HD11	1.95	0.49
2:D:1721:ALA:HB2	2:D:2012:LYS:CB	2.43	0.49
2:D:2535:TYR:CZ	2:D:2698:TRP:CH2	3.01	0.49
1:A:182:ILE:HD12	1:A:209:HIS:ND1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:LEU:HD13	1:A:439:LEU:HD12	1.95	0.49
1:A:468:CYS:SG	1:A:668:LYS:HE2	2.52	0.49
1:A:1618:LEU:HD22	1:A:1648:PHE:CB	2.43	0.49
2:B:2965:HIS:CD2	2:B:2970:PHE:HE1	2.31	0.49
2:B:2999:TRP:CZ3	2:B:3074:LEU:HD11	2.48	0.49
2:D:2403:ILE:O	2:D:2410:CYS:HA	2.12	0.49
2:B:2794:THR:O	2:B:2847:ILE:HG12	2.12	0.49
2:B:2848:THR:CG2	2:B:2852:LYS:HE3	2.42	0.49
2:B:1723:CYS:SG	2:B:2013:GLU:OE2	2.71	0.49
1:C:727:ARG:HA	1:C:782:THR:OG1	2.12	0.49
1:A:1121:PHE:O	1:A:1122:ASN:HB2	2.12	0.49
1:A:996:LEU:CD2	1:A:1129:LEU:HD11	2.42	0.49
2:B:2645:PHE:CA	2:B:2648:ARG:HG2	2.42	0.49
1:A:1143:PHE:HD2	1:A:1193:TYR:C	2.16	0.49
1:C:246:GLU:HB3	1:C:247:PRO:CA	2.35	0.49
2:D:1952:PHE:O	2:D:1955:TRP:HE3	1.95	0.49
1:C:373:LEU:CD1	1:C:403:HIS:CE1	2.92	0.49
1:A:251:GLU:HG2	1:A:259:ASN:CB	2.42	0.49
2:D:2177:LYS:HZ1	2:D:2364:GLY:HA2	1.75	0.49
2:B:3136:ILE:O	2:B:3139:VAL:HG12	2.11	0.49
2:D:2014:MET:HG3	2:D:2015:PRO:N	2.28	0.49
1:A:864:LYS:CA	1:A:864:LYS:HE2	2.43	0.49
2:D:2786:GLU:O	2:D:2789:LYS:HB2	2.13	0.49
1:A:414:VAL:HG22	1:A:415:LYS:N	2.28	0.49
2:D:3047:GLU:HG3	2:D:3047:GLU:O	2.13	0.49
2:D:2103:LEU:HA	2:D:2106:LEU:HD12	1.95	0.49
2:D:2141:HIS:O	2:D:2143:MET:HG2	2.12	0.49
2:D:2153:TYR:CE2	2:D:2157:PHE:HE1	2.30	0.49
2:D:2151:ARG:CZ	2:D:2298:TRP:CZ3	2.95	0.49
2:B:2101:TYR:CD2	2:D:1694:SER:N	2.81	0.49
2:B:2141:HIS:CD2	2:B:2146:PHE:CD2	3.01	0.49
2:B:2351:TYR:HB2	2:B:2356:TYR:CE1	2.47	0.49
2:B:1866:HIS:CE1	2:B:2012:LYS:HG2	2.47	0.49
2:D:1695:SER:O	2:D:1700:ALA:HB3	2.13	0.49
1:C:431:LEU:HD13	1:C:439:LEU:HD12	1.95	0.49
1:C:560:ARG:NH2	1:C:626:ASP:CG	2.66	0.49
1:A:1334:LYS:HA	1:A:1334:LYS:CE	2.26	0.49
1:A:1274:ARG:CA	1:A:1374:PHE:HE1	2.17	0.49
1:A:1249:GLN:HG2	1:A:1470:ARG:HB3	1.95	0.49
1:A:446:PHE:HE2	1:A:455:TYR:HD1	1.60	0.49
1:A:644:GLN:O	1:A:648:MET:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:234:MET:HE2	1:C:241:LEU:CG	2.42	0.49
1:C:5:ARG:HD3	1:C:89:LEU:CG	2.43	0.49
1:A:1657:THR:HB	2:B:1900:SER:CB	2.35	0.49
1:A:1656:HIS:C	2:B:1898:SER:HB2	2.33	0.49
1:C:1160:ASN:ND2	1:C:1168:CYS:HB3	2.17	0.49
2:B:2033:MET:HB3	2:B:2035:LEU:HG	1.94	0.49
2:B:2994:ILE:HG21	2:B:3104:ILE:HA	1.95	0.49
1:A:366:VAL:CA	1:A:369:MET:HE3	2.35	0.49
2:B:3212:THR:HG22	2:B:3213:ALA:N	2.27	0.49
2:B:2732:MET:CE	2:B:2759:PHE:CE2	2.95	0.49
1:C:171:PHE:CE2	1:C:175:PHE:CB	2.95	0.49
2:D:2568:HIS:CD2	2:D:2708:TRP:CH2	2.99	0.49
1:A:1437:TYR:CE2	1:A:1444:TYR:CZ	3.01	0.49
1:A:1128:GLN:HA	1:A:1131:LYS:HE2	1.94	0.49
2:D:2605:PHE:HE2	2:D:2614:PHE:CZ	2.30	0.49
1:A:1059:LEU:HD11	1:A:1063:ARG:HH21	1.76	0.49
1:A:1621:ASP:HB3	2:B:1910:LYS:HG2	1.93	0.49
2:B:2638:PRO:HB2	2:B:2641:GLY:HA2	1.93	0.49
2:B:1897:LEU:N	2:B:1897:LEU:HD12	2.28	0.49
2:D:2149:TRP:CD1	2:D:2326:MET:CG	2.95	0.49
2:D:2249:TYR:HD2	2:D:2301:TRP:CH2	2.31	0.49
2:B:2258:VAL:HG11	2:B:2433:PHE:HZ	1.75	0.49
2:B:2535:TYR:CZ	2:B:2698:TRP:CH2	3.01	0.49
1:C:502:LEU:HB3	1:C:507:ALA:HB3	1.94	0.49
1:C:513:TYR:HB2	1:C:635:ASN:CA	2.43	0.49
1:A:11:LEU:HD12	1:A:104:LEU:CD1	2.42	0.49
1:A:676:LEU:CD2	1:A:676:LEU:H	2.25	0.49
1:A:1567:PHE:CD2	1:A:1568:VAL:N	2.81	0.49
1:A:1646:ILE:HD13	2:B:1906:VAL:HG21	1.93	0.49
1:A:1161:ILE:HB	1:A:1198:LYS:HZ3	1.72	0.49
2:D:2033:MET:HB3	2:D:2035:LEU:HG	1.94	0.49
2:B:2619:ILE:HG22	2:B:2622:LEU:H	1.78	0.49
2:B:3010:PHE:CZ	2:B:3104:ILE:HD11	2.48	0.49
1:C:604:THR:HG23	1:C:605:ILE:N	2.27	0.49
1:C:1566:VAL:HG22	1:C:1626:ILE:CB	2.43	0.49
2:B:3076:ASN:HB3	2:B:3236:LEU:CD1	2.42	0.49
2:D:2322:MET:HE2	2:D:2349:PHE:CE1	2.48	0.49
1:A:1345:TRP:CZ2	1:A:1430:LEU:CD2	2.96	0.49
1:C:1628:ILE:CD1	1:C:1636:LEU:HD12	2.42	0.49
1:C:177:LEU:CD1	1:C:358:TYR:CD1	2.95	0.49
1:C:312:PHE:HD1	1:C:351:LYS:CD	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:679:ASN:OD1	1:A:681:LYS:HB2	2.13	0.49
2:D:2136:VAL:CG1	2:D:2425:MET:HB2	2.43	0.49
1:C:783:HIS:ND1	1:C:784:VAL:HG23	2.28	0.49
2:B:3164:VAL:HG12	2:B:3164:VAL:O	2.13	0.49
2:D:2385:PHE:CE1	2:D:2485:GLU:CG	2.95	0.49
2:D:2854:MET:HB3	2:D:2856:LEU:HG	1.94	0.49
2:D:1829:LEU:C	2:D:1829:LEU:HD13	2.32	0.49
2:B:1974:PHE:HB2	2:B:2066:ILE:HD11	1.95	0.49
2:D:2908:VAL:HG13	2:D:2908:VAL:O	2.12	0.49
2:B:2393:ILE:CD1	2:B:2397:ALA:HB3	2.43	0.49
2:D:3147:GLU:O	2:D:3148:SER:HB3	2.12	0.49
1:A:136:ASN:O	1:A:193:SER:HB3	2.13	0.49
1:C:414:VAL:HG22	1:C:415:LYS:N	2.28	0.49
2:D:2115:PHE:C	2:D:2118:ILE:HG22	2.33	0.48
2:D:2243:ALA:HB2	2:D:2255:GLN:HG3	1.95	0.48
2:B:2146:PHE:HD1	2:B:2147:PRO:CD	2.26	0.48
2:B:2153:TYR:CE2	2:B:2157:PHE:HE1	2.30	0.48
2:B:2388:PHE:C	2:B:2432:LEU:HD12	2.32	0.48
2:D:1860:TYR:HD2	2:D:1867:TYR:CE1	2.30	0.48
1:C:514:TRP:CE3	1:C:628:LEU:CD1	2.86	0.48
1:A:498:VAL:HG13	1:A:499:GLU:N	2.26	0.48
1:A:544:PHE:CD1	1:A:631:PHE:CZ	2.95	0.48
1:A:514:TRP:CZ3	1:A:628:LEU:HD11	2.47	0.48
1:C:159:VAL:HG23	1:C:160:LEU:N	2.27	0.48
2:D:3363:LEU:HD22	2:D:3363:LEU:N	2.27	0.48
2:B:1757:TRP:CE3	2:B:1759:TRP:CH2	3.02	0.48
1:C:1156:LEU:HD12	1:C:1174:PHE:O	2.13	0.48
2:B:3219:ILE:HG12	2:B:3230:ALA:HB2	1.95	0.48
2:D:2847:ILE:HB	2:D:2851:LEU:HD11	1.94	0.48
2:B:1973:VAL:HG12	2:B:2067:TYR:HD1	1.78	0.48
2:D:2622:LEU:HD13	2:D:2622:LEU:C	2.34	0.48
1:C:1143:PHE:CE2	1:C:1194:ASP:HB2	2.48	0.48
1:A:248:PHE:HD1	1:A:258:THR:HG21	1.73	0.48
1:C:248:PHE:HD1	1:C:258:THR:HG21	1.73	0.48
1:A:373:LEU:CD1	1:A:403:HIS:CE1	2.92	0.48
2:D:2732:MET:HE3	2:D:2755:PRO:CB	2.43	0.48
2:D:2172:TYR:HB2	2:D:2293:PHE:N	2.28	0.48
2:D:2812:ASP:HA	2:D:2823:ALA:H	1.78	0.48
1:A:286:THR:HG23	1:A:287:PRO:HD2	1.95	0.48
2:B:2393:ILE:HD12	2:B:2397:ALA:HB3	1.95	0.48
2:D:2393:ILE:CD1	2:D:2397:ALA:HB3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3009:PHE:HE1	2:B:3019:PHE:CD1	2.31	0.48
1:C:421:ASN:OD1	1:C:701:THR:HG21	2.12	0.48
2:B:2659:PHE:HA	2:B:2711:TRP:CH2	2.48	0.48
2:D:1897:LEU:N	2:D:1897:LEU:HD12	2.27	0.48
2:D:2252:PHE:CZ	2:D:2256:PHE:HD1	2.32	0.48
2:D:2416:ILE:HG22	2:D:2417:PHE:N	2.28	0.48
2:B:2155:LEU:HD22	2:B:2155:LEU:N	2.28	0.48
2:B:2153:TYR:CZ	2:B:2157:PHE:CE1	2.95	0.48
2:B:2243:ALA:HB2	2:B:2255:GLN:HG3	1.95	0.48
2:B:2416:ILE:HG22	2:B:2417:PHE:N	2.27	0.48
2:D:2196:ARG:O	2:D:2197:ASN:HB2	2.13	0.48
2:D:2535:TYR:O	2:D:2538:ILE:HG12	2.12	0.48
1:C:1319:TRP:CE3	1:C:1320:HIS:HA	2.49	0.48
1:C:560:ARG:NE	1:C:609:THR:CB	2.75	0.48
1:C:698:LEU:CD1	1:C:700:TYR:CD1	2.95	0.48
1:A:104:LEU:HB2	1:A:123:TRP:HZ3	1.78	0.48
1:A:183:HIS:HD1	1:A:194:MET:HG3	1.69	0.48
1:A:431:LEU:HD13	1:A:439:LEU:CD1	2.43	0.48
1:A:468:CYS:SG	1:A:477:TYR:CE1	3.06	0.48
1:A:549:ILE:CD1	1:A:622:TYR:HD1	2.25	0.48
1:A:551:PHE:CD2	1:A:552:GLU:N	2.81	0.48
1:C:97:PRO:HB3	1:C:146:LYS:H	1.78	0.48
1:C:192:TYR:CE2	1:C:199:TYR:CE1	3.01	0.48
1:A:1656:HIS:CA	2:B:1898:SER:CB	2.77	0.48
1:C:957:ASN:HD22	1:C:957:ASN:N	2.10	0.48
1:A:1646:ILE:HG22	2:B:1907:ASN:CG	2.34	0.48
1:C:1157:VAL:HB	1:C:1174:PHE:CZ	2.48	0.48
2:B:3319:VAL:C	2:B:3320:VAL:HG23	2.32	0.48
2:D:2999:TRP:CZ3	2:D:3074:LEU:HD11	2.48	0.48
1:A:486:ILE:N	1:A:662:LEU:HD21	2.28	0.48
1:A:746:PHE:HE2	1:A:754:GLN:NE2	2.11	0.48
2:D:2942:ILE:HG23	2:D:3103:MET:CE	2.43	0.48
1:C:486:ILE:N	1:C:662:LEU:HD21	2.28	0.48
1:C:748:LYS:NZ	1:C:797:GLU:OE1	2.45	0.48
1:A:1345:TRP:CH2	1:A:1400:PHE:HE2	2.31	0.48
1:A:931:THR:CA	1:A:991:ILE:HG21	2.38	0.48
2:B:1952:PHE:O	2:B:1955:TRP:HE3	1.95	0.48
1:C:1420:LEU:HD12	1:C:1423:LEU:HD21	1.93	0.48
2:D:3215:VAL:HG12	2:D:3275:LYS:HB3	1.94	0.48
1:A:1628:ILE:CD1	1:A:1636:LEU:HD12	2.42	0.48
2:D:2148:HIS:CG	2:D:2345:PRO:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1939:ASP:HB3	2:D:1942:LYS:HE3	1.95	0.48
1:C:215:ARG:HB3	1:C:215:ARG:HH11	1.78	0.48
2:B:2950:ASN:OD1	2:B:2961:PRO:HG3	2.12	0.48
2:D:2904:GLU:CD	2:D:2986:LYS:HZ1	2.16	0.48
2:B:2172:TYR:HB2	2:B:2293:PHE:N	2.28	0.48
2:D:2797:ALA:CB	2:D:2842:LEU:HD13	2.43	0.48
2:B:2656:GLN:HA	2:B:2656:GLN:OE1	2.14	0.48
2:D:2149:TRP:CE3	2:D:2150:HIS:HA	2.48	0.48
2:D:2289:ILE:HD12	2:D:2289:ILE:H	1.77	0.48
2:B:2140:ILE:HG12	2:B:2143:MET:CG	2.43	0.48
2:D:1924:LEU:H	2:D:1924:LEU:HD22	1.77	0.48
1:C:1242:HIS:CD2	1:C:1476:TYR:OH	2.66	0.48
1:C:446:PHE:CE2	1:C:455:TYR:CA	2.94	0.48
1:A:97:PRO:HB3	1:A:146:LYS:H	1.77	0.48
1:A:5:ARG:HD3	1:A:89:LEU:CG	2.43	0.48
1:A:1289:ILE:HA	1:A:1292:PHE:CD2	2.48	0.48
1:C:122:TYR:CD1	1:C:122:TYR:N	2.82	0.48
2:D:2389:LEU:HD13	2:D:2478:HIS:CB	2.43	0.48
1:A:1548:ARG:HA	1:A:1608:THR:HG21	1.94	0.48
1:A:1568:VAL:HG11	1:A:1622:PHE:CG	2.48	0.48
2:D:1759:TRP:HH2	2:D:1877:HIS:HB2	1.75	0.48
2:D:1913:LEU:N	2:D:1913:LEU:HD12	2.28	0.48
1:A:1151:PHE:O	1:A:1153:LYS:HD2	2.13	0.48
1:A:598:PHE:CE2	1:A:636:VAL:CG1	2.95	0.48
2:B:3144:PHE:HA	2:B:3149:VAL:CG1	2.44	0.48
1:A:305:ALA:HB2	1:A:362:LEU:CD1	2.39	0.48
2:B:3215:VAL:HG21	2:B:3233:PHE:CE2	2.45	0.48
2:B:3215:VAL:HG12	2:B:3275:LYS:HB3	1.94	0.48
2:B:1842:GLN:HA	2:B:2022:TYR:HE1	1.78	0.48
2:B:2797:ALA:HB1	2:B:2842:LEU:CB	2.44	0.48
1:C:973:ARG:HD2	1:C:1022:VAL:HG11	1.91	0.48
1:C:1143:PHE:HD2	1:C:1193:TYR:C	2.16	0.48
1:C:174:GLN:HA	1:C:358:TYR:CE1	2.42	0.48
2:D:3219:ILE:HG12	2:D:3230:ALA:HB2	1.95	0.48
2:B:2382:VAL:HG12	2:B:2383:ARG:N	2.27	0.48
2:D:2947:GLY:HA3	2:D:3094:GLU:O	2.12	0.48
1:C:101:LEU:CD2	1:C:137:ARG:HH22	2.24	0.48
2:B:1974:PHE:HB2	2:B:2066:ILE:CG1	2.43	0.48
2:B:2014:MET:HG3	2:B:2015:PRO:N	2.28	0.48
2:D:2124:LEU:HB2	2:D:2279:HIS:HB2	1.91	0.48
2:D:2294:VAL:HG13	2:D:2295:ASP:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2278:LEU:HA	2:B:2419:LEU:HD21	1.94	0.48
2:B:1711:CYS:SG	2:B:1722:CYS:CA	3.01	0.48
1:C:1261:ASN:O	1:C:1265:LEU:HD22	2.13	0.48
1:C:1476:TYR:HE2	1:C:1477:ARG:HB2	1.66	0.48
1:C:468:CYS:SG	1:C:477:TYR:CE1	3.06	0.48
1:C:428:ILE:HD12	1:C:513:TYR:O	2.14	0.48
1:A:234:MET:HE2	1:A:241:LEU:CG	2.44	0.48
1:A:1261:ASN:O	1:A:1265:LEU:HD22	2.13	0.48
1:A:1362:TYR:CE2	1:A:1364:SER:CA	2.95	0.48
1:A:1242:HIS:CD2	1:A:1476:TYR:OH	2.66	0.48
1:A:1292:PHE:CE1	1:A:1492:PRO:HB2	2.49	0.48
1:A:676:LEU:HD22	1:A:676:LEU:H	1.76	0.48
1:A:432:THR:HG23	1:A:434:GLU:N	2.29	0.48
1:A:513:TYR:HB2	1:A:635:ASN:CA	2.43	0.48
1:C:147:VAL:O	1:C:148:LYS:HB3	2.13	0.48
1:C:903:HIS:CG	1:C:1102:PRO:HB3	2.48	0.48
2:B:3176:ASN:ND2	2:B:3178:ASN:HB2	2.28	0.48
2:B:1789:ILE:HG23	2:B:1790:GLY:N	2.28	0.48
2:B:3317:LYS:HZ3	2:B:3393:VAL:HG22	1.78	0.48
2:B:2446:ILE:HA	2:B:2450:ASP:OD2	2.13	0.48
2:D:3048:PHE:HD2	2:D:3052:PHE:HB3	1.74	0.48
2:B:1912:PRO:C	2:B:1913:LEU:HD12	2.33	0.48
2:D:2981:PHE:HE2	2:D:2994:ILE:HD12	1.77	0.48
2:B:1988:VAL:HG12	2:B:2047:ILE:CG1	2.18	0.48
1:C:1568:VAL:HG11	1:C:1622:PHE:CG	2.48	0.48
2:D:2602:LEU:HB3	2:D:2603:PRO:CD	2.42	0.48
1:C:1395:PHE:CZ	1:C:1430:LEU:CB	2.95	0.48
2:B:2646:PHE:HZ	2:B:2676:TRP:HZ3	1.60	0.48
1:C:318:VAL:HG23	1:C:382:GLU:O	2.13	0.48
2:B:2732:MET:HA	2:B:2755:PRO:HB2	1.95	0.48
1:C:251:GLU:HG2	1:C:259:ASN:CB	2.42	0.48
2:B:2389:LEU:HD13	2:B:2478:HIS:CB	2.43	0.48
1:C:1381:HIS:HE2	1:C:1447:PHE:HZ	1.58	0.48
1:C:1437:TYR:CE2	1:C:1444:TYR:CZ	3.01	0.48
1:C:503:VAL:HG23	1:C:504:GLY:N	2.27	0.48
1:A:1399:TYR:HA	1:A:1402:GLU:OE2	2.13	0.48
2:D:2862:PHE:CE1	2:D:2864:PHE:CE1	2.98	0.48
1:C:286:THR:HG23	1:C:287:PRO:HD2	1.95	0.48
2:D:2141:HIS:HD2	2:D:2146:PHE:CD2	2.32	0.48
2:B:2141:HIS:O	2:B:2143:MET:HG2	2.12	0.48
2:B:2084:VAL:O	2:B:2169:ALA:HB3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2387:GLY:HA3	2:B:2432:LEU:CD2	2.23	0.48
2:D:1741:PHE:CE2	2:D:1875:TYR:CZ	3.02	0.48
2:D:2523:MET:O	2:D:2527:MET:HG3	2.13	0.48
1:C:1244:GLU:H	1:C:1244:GLU:CD	2.17	0.48
1:C:1289:ILE:HA	1:C:1292:PHE:CD2	2.48	0.48
1:C:552:GLU:HG3	1:C:554:ASN:CB	2.42	0.48
1:A:94:TRP:HB3	1:A:182:ILE:HD11	1.95	0.48
1:A:19:LEU:HD12	1:A:85:ARG:HD3	1.94	0.48
1:A:1520:GLY:O	1:A:1521:TYR:HD1	1.92	0.48
1:A:526:LEU:O	1:A:526:LEU:HD23	2.13	0.48
1:C:104:LEU:HB2	1:C:123:TRP:CZ3	2.48	0.48
1:C:94:TRP:HB3	1:C:182:ILE:HD11	1.95	0.48
1:C:68:TRP:HA	1:C:245:MET:SD	2.53	0.48
1:C:94:TRP:CG	1:C:182:ILE:HD11	2.48	0.48
2:D:3362:GLU:C	2:D:3363:LEU:HD22	2.34	0.48
1:C:852:GLU:HB2	1:C:921:TYR:HE1	1.73	0.48
1:A:1550:PHE:CE2	1:A:1606:ASP:HB2	2.48	0.48
1:A:1570:LEU:HD21	1:A:1616:VAL:HG13	1.95	0.48
2:D:1823:PHE:CE2	2:D:1853:TRP:CZ3	3.02	0.48
1:A:1156:LEU:HD12	1:A:1174:PHE:O	2.13	0.48
1:A:1157:VAL:HB	1:A:1174:PHE:CZ	2.48	0.48
1:C:1662:THR:O	2:D:1893:ARG:CD	2.39	0.48
2:B:3132:CYS:SG	2:B:3133:ALA:N	2.87	0.48
2:B:3306:ILE:HG21	2:B:3329:MET:SD	2.54	0.48
1:C:1185:TRP:CH2	1:C:1187:TYR:CE2	3.01	0.48
1:A:746:PHE:CZ	1:A:799:THR:CB	2.95	0.48
2:B:2622:LEU:C	2:B:2622:LEU:HD13	2.34	0.48
2:B:2464:VAL:O	2:B:2464:VAL:HG13	2.14	0.48
1:C:1618:LEU:HD22	1:C:1648:PHE:CB	2.43	0.48
1:C:1018:ILE:HG13	1:C:1045:HIS:ND1	2.29	0.48
1:A:975:VAL:HG22	1:A:976:GLN:N	2.29	0.48
2:B:3335:VAL:HG23	2:B:3335:VAL:O	2.13	0.48
2:B:3020:PHE:CE2	2:B:3021:LYS:CE	2.95	0.48
2:B:3020:PHE:C	2:B:3021:LYS:HG3	2.34	0.48
1:A:246:GLU:CB	1:A:247:PRO:HA	2.32	0.48
1:A:503:VAL:HG23	1:A:504:GLY:N	2.27	0.48
1:C:880:LYS:HD3	1:C:880:LYS:H	1.78	0.48
2:D:1808:ARG:CZ	2:D:1808:ARG:HA	2.44	0.48
2:D:1974:PHE:HB2	2:D:2066:ILE:CG1	2.43	0.48
2:D:2200:MET:CG	2:D:2201:PRO:HD2	2.44	0.48
1:A:837:LEU:HD21	1:A:917:ARG:CZ	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1475:PRO:HG2	1:A:1478:GLU:OE1	2.13	0.48
2:D:2155:LEU:CD1	2:D:2354:LEU:HB3	2.44	0.48
2:D:2155:LEU:N	2:D:2155:LEU:HD22	2.28	0.48
2:D:2354:LEU:HB2	2:D:2356:TYR:CD1	2.48	0.48
2:D:2371:ILE:HG13	2:D:2372:GLU:N	2.28	0.48
2:B:2118:ILE:HA	2:B:2121:PHE:CE1	2.48	0.48
2:B:2124:LEU:HA	2:B:2125:PRO:C	2.34	0.48
2:B:2354:LEU:HB2	2:B:2356:TYR:CD1	2.48	0.48
2:B:1695:SER:O	2:B:1700:ALA:HB3	2.13	0.48
2:B:1721:ALA:HB2	2:B:2012:LYS:CB	2.43	0.48
1:C:911:GLN:HE22	1:C:1091:ASN:ND2	2.12	0.48
1:C:502:LEU:HA	1:C:505:ARG:HD2	1.95	0.48
1:A:147:VAL:O	1:A:148:LYS:HB3	2.13	0.48
1:A:1248:TYR:HB3	1:A:1470:ARG:NH1	2.28	0.48
1:A:478:ALA:N	1:A:767:LYS:HG2	2.29	0.48
1:A:1657:THR:HA	2:B:1901:GLU:OE2	2.14	0.48
2:D:1765:GLU:HG2	2:D:1766:LEU:O	2.14	0.48
2:B:3264:THR:HB	2:B:3267:HIS:HB3	1.96	0.48
2:B:3362:GLU:C	2:B:3363:LEU:HD22	2.34	0.48
1:A:623:THR:HG1	1:A:629:PHE:HD1	1.58	0.48
2:D:3010:PHE:CZ	2:D:3104:ILE:HD11	2.47	0.48
2:B:2981:PHE:CE2	2:B:2994:ILE:HD12	2.48	0.48
1:C:486:ILE:HB	1:C:662:LEU:CG	2.44	0.48
1:A:373:LEU:CD2	1:A:373:LEU:H	2.26	0.48
2:B:2136:VAL:CG1	2:B:2425:MET:HB2	2.44	0.48
1:A:215:ARG:HH11	1:A:215:ARG:HB3	1.78	0.48
2:D:3164:VAL:HG12	2:D:3164:VAL:O	2.13	0.48
1:C:101:LEU:HB2	1:C:106:ALA:HB2	1.96	0.48
2:D:1974:PHE:HB2	2:D:2066:ILE:HD11	1.95	0.48
2:D:2118:ILE:HA	2:D:2121:PHE:CE1	2.48	0.48
2:D:2143:MET:HE3	2:D:2321:LEU:HD12	1.94	0.48
2:B:2103:LEU:CD1	2:B:2204:PHE:CZ	2.96	0.48
2:B:2128:CYS:HB3	2:B:2138:CYS:HA	1.96	0.48
2:B:2143:MET:HE3	2:B:2321:LEU:HD12	1.95	0.48
1:A:724:GLN:NE2	1:A:828:LYS:HG2	2.28	0.48
1:C:676:LEU:H	1:C:676:LEU:HD22	1.77	0.48
1:A:179:HIS:ND1	1:A:209:HIS:NE2	2.59	0.48
1:A:1310:VAL:O	1:A:1311:HIS:HD2	1.97	0.48
1:A:1319:TRP:CE3	1:A:1320:HIS:HA	2.48	0.48
1:A:428:ILE:HD12	1:A:513:TYR:O	2.13	0.48
1:C:66:PRO:O	1:C:70:ARG:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3132:CYS:SG	2:D:3133:ALA:N	2.87	0.48
2:D:1757:TRP:CE3	2:D:1759:TRP:CH2	3.02	0.48
2:B:1759:TRP:CH2	2:B:1877:HIS:CB	2.94	0.48
1:A:876:HIS:ND1	1:A:1042:PHE:CE2	2.81	0.48
1:A:745:ILE:HD12	1:A:800:VAL:HG22	1.96	0.48
2:D:2994:ILE:HG21	2:D:3104:ILE:HA	1.94	0.48
1:C:600:ILE:HD11	1:C:760:PHE:HB2	1.94	0.48
1:C:1567:PHE:CG	1:C:1568:VAL:N	2.81	0.48
1:A:1345:TRP:CH2	1:A:1426:ALA:CB	2.96	0.48
1:C:1392:ASP:CB	1:C:1395:PHE:CE1	2.95	0.48
1:C:1656:HIS:O	2:D:1901:GLU:OE2	2.31	0.48
1:A:1555:LEU:HB2	1:A:1599:PHE:CE2	2.48	0.48
2:B:2568:HIS:CE1	2:B:2732:MET:HE1	2.49	0.48
1:C:251:GLU:HG2	1:C:259:ASN:OD1	2.13	0.48
1:A:1219:LEU:HD12	1:A:1219:LEU:C	2.32	0.48
1:C:1621:ASP:O	1:C:1621:ASP:OD1	2.32	0.48
2:B:2812:ASP:HA	2:B:2823:ALA:H	1.78	0.48
2:B:2651:LEU:HD13	2:B:2651:LEU:C	2.33	0.48
2:B:2786:GLU:O	2:B:2789:LYS:HB2	2.13	0.48
2:D:2901:ASP:CG	2:D:2902:HIS:H	2.17	0.48
1:C:1340:VAL:HG13	1:C:1340:VAL:O	2.14	0.48
2:D:2656:GLN:OE1	2:D:2656:GLN:HA	2.14	0.48
2:D:2170:VAL:CG1	2:D:2288:PHE:CD1	2.95	0.48
2:D:2149:TRP:CA	2:D:2326:MET:HE1	2.43	0.48
1:C:724:GLN:NE2	1:C:828:LYS:HG2	2.28	0.48
2:B:2356:TYR:CE2	2:B:2358:TYR:CE2	3.02	0.48
2:D:1711:CYS:SG	2:D:1722:CYS:CA	3.01	0.48
1:C:1310:VAL:O	1:C:1311:HIS:HD2	1.97	0.48
1:C:1249:GLN:HG2	1:C:1470:ARG:HB3	1.94	0.48
1:C:431:LEU:HD13	1:C:439:LEU:CD1	2.43	0.48
1:C:464:LEU:CD1	1:C:551:PHE:CE2	2.95	0.48
1:C:557:HIS:HB3	1:C:613:GLU:OE1	2.14	0.48
1:C:644:GLN:O	1:C:648:MET:HG3	2.13	0.48
1:A:8:VAL:HG21	1:A:208:LEU:HD23	1.96	0.48
1:A:1319:TRP:CD1	1:A:1490:LEU:CD2	2.95	0.48
1:C:5:ARG:CZ	1:C:89:LEU:HD22	2.40	0.48
1:C:60:HIS:CE1	1:C:197:LEU:HD21	2.49	0.48
2:B:1806:ILE:CD1	2:B:1854:VAL:HG12	2.43	0.48
2:B:3327:MET:HG2	2:B:3328:PHE:N	2.27	0.48
2:B:3387:ASN:HD22	2:B:3387:ASN:C	2.16	0.48
2:D:3176:ASN:ND2	2:D:3178:ASN:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1185:TRP:CH2	1:A:1187:TYR:CE2	3.02	0.48
2:D:2984:ALA:O	2:D:2987:LYS:HG2	2.14	0.48
1:C:746:PHE:HE2	1:C:754:GLN:NE2	2.11	0.48
1:C:746:PHE:CZ	1:C:799:THR:CB	2.95	0.48
1:C:1567:PHE:CD2	1:C:1568:VAL:N	2.81	0.48
2:B:3243:PRO:HG2	2:D:3354:PRO:HA	1.94	0.48
1:A:1079:GLU:O	1:A:1102:PRO:HD2	2.13	0.48
2:D:2645:PHE:CA	2:D:2648:ARG:HG2	2.42	0.48
1:C:1345:TRP:CH2	1:C:1426:ALA:CB	2.96	0.48
1:C:130:PHE:HD1	1:C:202:TYR:HH	1.57	0.48
2:B:1966:ASN:HA	2:B:1969:GLU:HG2	1.95	0.48
1:A:458:THR:HA	1:A:461:TYR:HE1	1.76	0.48
2:B:2868:ILE:HB	2:B:2876:LEU:HB2	1.95	0.48
1:A:101:LEU:HB2	1:A:106:ALA:HB2	1.96	0.48
2:B:1808:ARG:HA	2:B:1808:ARG:CZ	2.44	0.48
1:C:288:GLU:HA	1:C:288:GLU:OE1	2.13	0.48
1:A:1621:ASP:OD1	1:A:1621:ASP:O	2.32	0.48
2:D:2393:ILE:HD12	2:D:2397:ALA:HB3	1.95	0.48
1:A:1243:HIS:HD2	1:A:1246:GLU:HB2	1.79	0.48
1:C:1189:ARG:NH1	2:D:2431:ARG:CA	2.62	0.48
2:D:2140:ILE:CG1	2:D:2143:MET:HB2	2.34	0.48
2:B:2252:PHE:CZ	2:B:2256:PHE:HD1	2.32	0.48
2:B:2195:TRP:CD1	2:D:1695:SER:HA	2.48	0.48
1:A:911:GLN:HE22	1:A:1091:ASN:ND2	2.12	0.48
1:C:1249:GLN:CG	1:C:1476:TYR:CB	2.85	0.48
1:C:464:LEU:HD13	1:C:464:LEU:C	2.34	0.48
1:C:478:ALA:N	1:C:767:LYS:HG2	2.29	0.48
1:A:104:LEU:HB2	1:A:123:TRP:CZ3	2.48	0.48
1:A:1244:GLU:CD	1:A:1244:GLU:H	2.16	0.48
1:A:464:LEU:HA	1:A:465:PRO:C	2.34	0.48
1:A:560:ARG:HH22	1:A:628:LEU:HB3	1.77	0.48
1:C:234:MET:HE2	1:C:241:LEU:CD2	2.44	0.48
1:C:22:ALA:CB	1:C:83:LYS:HB3	2.33	0.48
1:A:1549:VAL:CG1	1:A:1607:ILE:HG13	2.25	0.48
2:B:1763:ARG:HB2	2:B:1763:ARG:CZ	2.44	0.48
2:B:3320:VAL:CG1	2:B:3321:LYS:H	2.14	0.48
2:D:2981:PHE:CE2	2:D:2994:ILE:HD12	2.48	0.48
2:B:3082:ILE:HB	2:B:3090:MET:HE2	1.95	0.48
1:C:405:PRO:CB	1:C:657:HIS:HB3	2.44	0.48
1:A:407:LYS:CA	1:A:653:PRO:HD2	2.43	0.48
2:D:2636:ASN:HB2	2:D:2646:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1555:LEU:HB2	1:C:1599:PHE:CE2	2.48	0.48
2:D:3335:VAL:O	2:D:3335:VAL:HG23	2.13	0.48
2:D:3274:LEU:HD13	2:D:3275:LYS:N	2.29	0.48
1:A:1034:ARG:HG3	1:A:1035:TYR:N	2.29	0.48
1:A:318:VAL:HG23	1:A:382:GLU:O	2.13	0.48
1:A:791:THR:CG2	1:A:794:GLY:H	2.18	0.48
2:B:1939:ASP:HB3	2:B:1942:LYS:HE3	1.95	0.48
2:B:1778:PRO:HB3	2:D:1817:LYS:HD3	1.93	0.48
2:D:2764:PHE:CB	2:D:2766:PHE:CE2	2.97	0.48
1:A:821:ILE:HD12	1:A:821:ILE:C	2.34	0.48
2:B:3024:ILE:O	2:B:3025:ARG:HB3	2.14	0.48
1:A:288:GLU:HA	1:A:288:GLU:OE1	2.13	0.48
2:B:2200:MET:CG	2:B:2201:PRO:HD2	2.44	0.48
1:A:685:ASN:HB3	1:A:690:LYS:HD3	1.96	0.48
1:C:1243:HIS:HD2	1:C:1246:GLU:HB2	1.79	0.48
1:C:1189:ARG:HH21	2:D:2431:ARG:HB3	1.77	0.48
2:D:2124:LEU:HA	2:D:2125:PRO:C	2.34	0.48
2:B:2149:TRP:CE3	2:B:2150:HIS:HA	2.48	0.48
2:B:2212:HIS:HB3	2:B:2214:THR:OG1	2.14	0.48
2:B:2691:THR:HG23	2:B:2692:THR:N	2.27	0.48
1:C:1262:ILE:HG13	1:C:1263:GLU:N	2.29	0.48
1:C:560:ARG:NH1	1:C:628:LEU:HD22	2.29	0.48
1:A:1366:GLN:HB3	1:A:1368:HIS:CD2	2.49	0.48
1:A:560:ARG:HD2	1:A:609:THR:CA	2.34	0.48
1:C:903:HIS:CD2	1:C:1053:TRP:CH2	3.01	0.48
1:C:1075:THR:O	2:D:2456:GLU:CG	2.62	0.48
2:D:1763:ARG:CZ	2:D:1763:ARG:HB2	2.44	0.48
2:B:1854:VAL:HG23	2:B:1855:GLY:N	2.29	0.48
2:D:2452:PHE:CD2	2:D:2458:PHE:HD1	2.32	0.48
2:B:2402:GLN:HA	2:B:2413:GLY:H	1.77	0.48
2:D:3082:ILE:HB	2:D:3090:MET:HE2	1.96	0.48
2:B:2687:THR:HG23	2:B:2690:TYR:HB2	1.95	0.48
1:C:366:VAL:CA	1:C:369:MET:HE3	2.32	0.48
1:C:369:MET:SD	1:C:371:MET:HE2	2.54	0.48
1:C:602:HIS:HD1	1:C:636:VAL:CG2	2.26	0.48
1:C:1550:PHE:CE2	1:C:1606:ASP:HB2	2.48	0.48
1:C:1566:VAL:HG12	1:C:1567:PHE:N	2.29	0.48
1:C:1570:LEU:HD21	1:C:1616:VAL:HG13	1.95	0.48
1:A:305:ALA:HB3	1:A:362:LEU:HD11	1.95	0.48
1:A:362:LEU:N	1:A:362:LEU:HD12	2.29	0.48
1:A:730:ALA:CB	1:A:781:ILE:HD11	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2732:MET:HE3	2:B:2755:PRO:CB	2.43	0.48
2:B:1936:ASP:O	2:B:1942:LYS:HD2	2.14	0.48
1:A:312:PHE:HD1	1:A:351:LYS:CD	2.26	0.48
2:D:1966:ASN:HA	2:D:1969:GLU:HG2	1.95	0.48
2:B:2821:HIS:HB3	2:B:2850:VAL:HG13	1.96	0.48
2:D:2868:ILE:HB	2:D:2876:LEU:HB2	1.95	0.48
1:C:685:ASN:HB3	1:C:690:LYS:HD3	1.96	0.48
1:C:423:LEU:HD22	1:C:423:LEU:N	2.29	0.48
2:D:2149:TRP:HD1	2:D:2326:MET:CG	2.27	0.47
2:D:2154:THR:CA	2:D:2288:PHE:CE2	2.95	0.47
2:D:2356:TYR:CE2	2:D:2358:TYR:CE2	3.02	0.47
2:B:2105:SER:OG	2:B:2164:HIS:HD2	1.97	0.47
2:B:1704:PHE:O	2:B:1722:CYS:HB2	2.14	0.47
2:D:1714:PRO:HB3	2:D:1922:TYR:CZ	2.44	0.47
2:B:2195:TRP:C	2:D:1922:TYR:CD1	2.84	0.47
1:A:97:PRO:CB	1:A:146:LYS:HA	2.44	0.47
1:A:638:ARG:CG	1:A:702:TYR:CE1	2.95	0.47
1:C:8:VAL:HG21	1:C:208:LEU:HD23	1.96	0.47
1:C:97:PRO:CB	1:C:146:LYS:HA	2.44	0.47
2:D:3347:ALA:HA	2:D:3350:LYS:HD3	1.96	0.47
2:B:3043:THR:O	2:B:3048:PHE:HA	2.14	0.47
2:D:1786:ASN:OD1	2:D:1788:PHE:HB2	2.14	0.47
2:B:1823:PHE:CE2	2:B:1853:TRP:CZ3	3.02	0.47
2:B:1913:LEU:HD12	2:B:1913:LEU:N	2.28	0.47
2:D:2619:ILE:HG22	2:D:2622:LEU:H	1.78	0.47
2:D:2621:TYR:HE2	2:D:2693:TYR:HH	1.58	0.47
2:D:2036:ARG:H	2:D:2039:GLU:CG	2.27	0.47
1:C:130:PHE:HE1	1:C:202:TYR:CE2	2.31	0.47
1:A:928:TRP:HE1	1:A:934:LEU:HD12	1.79	0.47
2:D:3083:GLY:CA	2:D:3089:SER:HB2	2.43	0.47
2:B:3083:GLY:CA	2:B:3089:SER:HB2	2.43	0.47
2:D:3160:LEU:HD13	2:D:3161:PRO:N	2.29	0.47
1:A:312:PHE:CD2	1:A:313:GLY:N	2.82	0.47
1:C:674:SER:HB3	1:C:675:PRO:CD	2.40	0.47
1:A:1349:ILE:HD12	1:A:1351:HIS:O	2.14	0.47
1:C:136:ASN:O	1:C:193:SER:HB3	2.13	0.47
1:A:187:GLY:HA3	1:A:195:ALA:HB2	1.96	0.47
2:D:2083:LYS:HZ3	2:D:2158:GLU:HB3	1.77	0.47
2:D:2338:PHE:CD1	2:D:2339:THR:N	2.83	0.47
2:D:2399:VAL:HG23	2:D:2399:VAL:O	2.14	0.47
2:B:2085:ARG:HA	2:B:2169:ALA:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2115:PHE:C	2:B:2118:ILE:HG22	2.33	0.47
2:B:2208:TYR:CE2	2:B:2210:PRO:HG3	2.49	0.47
2:D:1704:PHE:O	2:D:1722:CYS:HB2	2.14	0.47
1:A:866:ALA:CA	1:A:871:GLN:HG2	2.45	0.47
1:C:432:THR:HG23	1:C:434:GLU:N	2.29	0.47
1:A:1257:ARG:NH2	1:A:1332:LEU:HD23	2.28	0.47
1:C:67:HIS:HA	1:C:267:LEU:HG	1.96	0.47
1:C:852:GLU:HB2	1:C:921:TYR:CD1	2.50	0.47
1:A:1550:PHE:HE1	1:A:1649:GLU:HG2	1.79	0.47
2:B:1851:HIS:HA	2:B:1862:ILE:HG21	1.95	0.47
1:A:1214:TYR:HE1	1:A:1231:GLN:HE22	1.62	0.47
1:A:602:HIS:HD1	1:A:636:VAL:CG2	2.26	0.47
1:C:590:ASP:HB3	1:C:593:ASP:HB2	1.96	0.47
1:C:1550:PHE:HE1	1:C:1649:GLU:HG2	1.79	0.47
2:B:2580:ALA:O	2:B:2584:HIS:HD2	1.97	0.47
2:B:2036:ARG:H	2:B:2039:GLU:CG	2.27	0.47
1:C:1236:HIS:H	2:D:2319:VAL:HG21	1.79	0.47
1:A:318:VAL:CG1	1:A:341:PHE:CE1	2.95	0.47
2:D:1936:ASP:O	2:D:1942:LYS:HD2	2.14	0.47
1:A:925:LEU:HD13	1:A:1043:TYR:HB3	1.96	0.47
1:C:1399:TYR:HA	1:C:1402:GLU:OE2	2.13	0.47
2:D:3136:ILE:CD1	2:D:3136:ILE:H	2.26	0.47
1:C:572:PHE:HB3	1:C:575:HIS:CD2	2.49	0.47
2:D:2503:GLY:CA	2:D:2588:VAL:HB	2.43	0.47
2:D:1774:THR:HG22	2:D:1775:ILE:N	2.29	0.47
1:A:423:LEU:N	1:A:423:LEU:HD22	2.29	0.47
2:B:2141:HIS:HD2	2:B:2146:PHE:CD2	2.32	0.47
2:B:2154:THR:CA	2:B:2288:PHE:CE2	2.95	0.47
2:B:2149:TRP:CA	2:B:2326:MET:HE1	2.42	0.47
2:B:2278:LEU:N	2:B:2419:LEU:HD21	2.29	0.47
2:B:1741:PHE:CE2	2:B:1875:TYR:CZ	3.02	0.47
1:A:874:ALA:HB1	1:A:881:TRP:NE1	2.29	0.47
2:B:2538:ILE:O	2:B:2573:TYR:HE1	1.96	0.47
1:C:874:ALA:HB1	1:C:881:TRP:NE1	2.29	0.47
1:A:273:LEU:CD1	1:A:273:LEU:H	2.27	0.47
1:A:1244:GLU:HG2	1:A:1245:GLY:H	1.76	0.47
1:A:1275:ALA:HA	1:A:1278:LEU:CD2	2.45	0.47
1:C:1079:GLU:O	1:C:1102:PRO:HD2	2.13	0.47
1:C:853:LEU:N	1:C:921:TYR:CE1	2.82	0.47
1:C:1042:PHE:CE2	1:C:1046:HIS:CE1	3.02	0.47
2:D:3043:THR:O	2:D:3048:PHE:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1909:MET:HB3	2:B:1935:GLU:HG2	1.97	0.47
2:D:1973:VAL:HG12	2:D:2067:TYR:HD1	1.78	0.47
1:A:746:PHE:HA	1:A:757:ALA:H	1.79	0.47
1:A:590:ASP:HB3	1:A:593:ASP:HB2	1.96	0.47
2:B:2939:TYR:HE1	2:B:2981:PHE:HE1	1.60	0.47
1:C:745:ILE:HD12	1:C:800:VAL:HG22	1.96	0.47
1:A:853:LEU:CG	1:A:921:TYR:CE1	2.95	0.47
2:B:2036:ARG:HB2	2:B:2039:GLU:HG2	1.96	0.47
2:D:3020:PHE:C	2:D:3021:LYS:HG3	2.34	0.47
2:D:2607:THR:HG23	2:D:2608:ASP:N	2.28	0.47
1:A:1379:ILE:HG13	1:A:1447:PHE:CZ	2.49	0.47
1:A:783:HIS:ND1	1:A:784:VAL:HG23	2.28	0.47
2:D:2385:PHE:HE1	2:D:2485:GLU:HB2	1.78	0.47
2:D:2703:ASN:O	2:D:2706:ARG:HB3	2.14	0.47
2:B:2805:LYS:HG2	2:B:2806:SER:H	1.79	0.47
2:B:3194:LEU:H	2:B:3194:LEU:CD1	2.25	0.47
1:C:1508:THR:HG22	1:C:1511:ASP:OD2	2.14	0.47
2:D:2128:CYS:HB3	2:D:2138:CYS:HA	1.96	0.47
2:D:2212:HIS:HB3	2:D:2214:THR:OG1	2.14	0.47
2:D:2286:ILE:HG23	2:D:2287:PHE:N	2.28	0.47
2:B:2150:HIS:CD2	2:B:2291:HIS:CD2	3.03	0.47
2:B:2196:ARG:O	2:B:2197:ASN:HB2	2.14	0.47
2:B:2829:LEU:HD13	2:B:2829:LEU:C	2.34	0.47
2:D:2538:ILE:O	2:D:2573:TYR:HE1	1.97	0.47
1:C:1275:ALA:HA	1:C:1278:LEU:CD2	2.45	0.47
1:C:551:PHE:CD2	1:C:552:GLU:N	2.81	0.47
1:C:496:THR:HG21	1:C:698:LEU:CD2	2.44	0.47
1:A:1249:GLN:CB	1:A:1470:ARG:NH2	2.61	0.47
1:A:572:PHE:HB3	1:A:575:HIS:CD2	2.49	0.47
1:C:183:HIS:HD1	1:C:194:MET:HG3	1.68	0.47
1:C:208:LEU:HD12	1:C:208:LEU:H	1.79	0.47
2:D:3270:PHE:CE1	2:D:3290:PRO:HD2	2.50	0.47
1:C:921:TYR:CE2	1:C:923:GLY:N	2.82	0.47
2:B:3297:ASN:N	2:B:3297:ASN:HD22	2.10	0.47
2:B:1765:GLU:HG2	2:B:1766:LEU:O	2.14	0.47
2:B:1730:PHE:CE2	2:B:1734:HIS:CE1	3.03	0.47
1:C:1233:SER:C	2:D:2320:SER:HB2	2.33	0.47
1:C:462:HIS:CE1	1:C:623:THR:HG21	2.50	0.47
2:D:2402:GLN:HA	2:D:2413:GLY:H	1.78	0.47
2:D:2401:PHE:CD1	2:D:2460:ILE:HG21	2.50	0.47
2:D:3059:LEU:HA	2:D:3116:TRP:HD1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1991:GLN:HA	2:B:2002:ALA:H	1.78	0.47
1:C:324:ILE:HG23	1:C:325:PRO:HD2	1.97	0.47
1:C:362:LEU:N	1:C:362:LEU:HD12	2.29	0.47
1:C:1548:ARG:HA	1:C:1608:THR:HG21	1.94	0.47
2:B:3234:VAL:HG22	2:B:3235:ILE:N	2.30	0.47
1:A:921:TYR:CE2	1:A:923:GLY:N	2.82	0.47
1:A:1018:ILE:HG13	1:A:1045:HIS:ND1	2.29	0.47
1:C:1017:TYR:O	1:C:1021:LEU:HD23	2.14	0.47
2:D:1842:GLN:HA	2:D:2022:TYR:HE1	1.78	0.47
2:B:2800:LEU:CD1	2:B:2828:ILE:HD11	2.33	0.47
2:B:2764:PHE:CB	2:B:2766:PHE:CE2	2.97	0.47
1:A:216:ILE:HD13	1:A:219:ILE:CD1	2.44	0.47
1:A:1401:TYR:HE2	1:A:1405:LEU:HD22	1.75	0.47
2:D:3139:VAL:O	2:D:3139:VAL:HG13	2.14	0.47
2:B:2703:ASN:O	2:B:2706:ARG:HB3	2.15	0.47
1:A:1201:ASP:O	1:A:1203:LYS:HD2	2.15	0.47
2:D:2651:LEU:C	2:D:2651:LEU:HD13	2.33	0.47
1:C:1539:MET:CE	1:C:1539:MET:HA	2.45	0.47
2:D:2558:CYS:SG	2:D:2738:PRO:HD3	2.55	0.47
2:B:2558:CYS:SG	2:B:2738:PRO:HD3	2.55	0.47
2:B:3047:GLU:O	2:B:3047:GLU:HG3	2.13	0.47
1:C:562:ILE:HG22	1:C:564:GLN:O	2.14	0.47
2:D:2103:LEU:HD12	2:D:2204:PHE:CG	2.49	0.47
2:B:2101:TYR:CD2	2:D:1694:SER:CA	2.95	0.47
2:B:2103:LEU:HD12	2:B:2204:PHE:CG	2.49	0.47
2:B:2338:PHE:CD1	2:B:2339:THR:N	2.83	0.47
1:C:1292:PHE:CE1	1:C:1492:PRO:HB2	2.49	0.47
1:C:676:LEU:HG	1:C:1365:ARG:CA	2.34	0.47
1:C:427:ASN:N	1:C:513:TYR:CE1	2.82	0.47
1:C:526:LEU:O	1:C:526:LEU:HD23	2.13	0.47
1:A:160:LEU:CD2	1:A:297:ARG:HD2	2.43	0.47
1:A:65:PHE:HD1	1:A:66:PRO:HD3	1.80	0.47
1:A:94:TRP:CG	1:A:182:ILE:HD11	2.48	0.47
1:A:1457:THR:HA	1:A:1460:ARG:HG2	1.96	0.47
1:A:464:LEU:CD1	1:A:551:PHE:CE2	2.95	0.47
1:A:560:ARG:HB2	1:A:610:GLY:HA2	1.97	0.47
1:A:574:HIS:HE1	1:A:575:HIS:CE1	2.32	0.47
1:A:549:ILE:HD13	1:A:622:TYR:HD1	1.76	0.47
1:A:551:PHE:CE1	1:A:625:PHE:HZ	2.21	0.47
1:C:160:LEU:CD2	1:C:297:ARG:HD2	2.43	0.47
1:C:839:ARG:HA	1:C:924:ALA:HB3	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2946:HIS:HE1	2:B:3093:LEU:HD12	1.80	0.47
2:B:3374:TYR:O	2:B:3375:PHE:HB2	2.15	0.47
2:D:2446:ILE:HA	2:D:2450:ASP:OD2	2.13	0.47
2:D:3078:VAL:CG1	2:D:3082:ILE:HD13	2.43	0.47
1:C:745:ILE:CD1	1:C:800:VAL:HG22	2.45	0.47
1:A:1409:GLU:OE1	1:A:1544:LYS:HE2	2.13	0.47
1:A:723:GLN:HA	1:A:727:ARG:NH2	2.30	0.47
1:C:1395:PHE:CZ	1:C:1430:LEU:CD2	2.97	0.47
2:B:1817:LYS:HG2	2:B:1820:HIS:HE1	1.80	0.47
2:B:2500:ALA:HB2	2:B:3131:SER:CA	2.41	0.47
2:B:2636:ASN:HB2	2:B:2646:PHE:CE2	2.48	0.47
1:A:226:LEU:CD2	1:A:291:LYS:HE2	2.34	0.47
2:B:2876:LEU:HD22	2:B:2876:LEU:N	2.29	0.47
1:A:1485:LEU:H	1:A:1485:LEU:HD12	1.77	0.47
1:C:866:ALA:CA	1:C:871:GLN:HG2	2.44	0.47
1:A:562:ILE:HG22	1:A:564:GLN:O	2.14	0.47
2:B:2124:LEU:HD13	2:B:2125:PRO:CG	2.44	0.47
2:B:2256:PHE:HA	2:B:2259:MET:HE3	1.95	0.47
2:D:2829:LEU:C	2:D:2829:LEU:HD13	2.34	0.47
1:C:1366:GLN:HB3	1:C:1368:HIS:CD2	2.49	0.47
1:C:1457:THR:HA	1:C:1460:ARG:HG2	1.96	0.47
1:A:197:LEU:HD13	1:A:197:LEU:O	2.15	0.47
1:A:66:PRO:O	1:A:70:ARG:HG3	2.13	0.47
1:A:1278:LEU:HB3	1:A:1373:PRO:CG	2.42	0.47
1:A:1486:MET:O	1:A:1509:PRO:HD2	2.14	0.47
1:A:464:LEU:C	1:A:464:LEU:HD13	2.34	0.47
1:C:104:LEU:HB2	1:C:123:TRP:HZ3	1.78	0.47
1:C:197:LEU:O	1:C:197:LEU:HD13	2.15	0.47
1:C:206:PHE:CE2	1:C:210:HIS:CE1	3.03	0.47
1:A:1618:LEU:CD1	2:B:1906:VAL:CG2	2.77	0.47
1:A:1548:ARG:HB2	1:A:1649:GLU:HG2	1.96	0.47
2:B:3049:SER:O	2:B:3050:SER:HB2	2.15	0.47
2:B:3059:LEU:HA	2:B:3116:TRP:HD1	1.80	0.47
1:A:1218:ASP:N	1:A:1224:LEU:HD21	2.30	0.47
2:B:3347:ALA:HA	2:B:3350:LYS:HD3	1.96	0.47
1:A:901:PHE:CE2	1:A:905:HIS:CE1	3.03	0.47
2:D:2942:ILE:HG23	2:D:3103:MET:HE1	1.97	0.47
2:B:2942:ILE:HG23	2:B:3103:MET:CE	2.44	0.47
2:D:2464:VAL:O	2:D:2464:VAL:HG13	2.14	0.47
1:A:411:ASP:CB	1:A:655:ARG:N	2.65	0.47
1:A:171:PHE:CE2	1:A:175:PHE:CB	2.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:246:GLU:CB	1:C:247:PRO:HA	2.32	0.47
2:B:3160:LEU:HD13	2:B:3161:PRO:N	2.29	0.47
1:C:312:PHE:CD2	1:C:313:GLY:N	2.82	0.47
2:B:2607:THR:HG23	2:B:2608:ASP:N	2.28	0.47
1:A:1379:ILE:HD13	1:A:1444:TYR:CD1	2.49	0.47
1:A:880:LYS:H	1:A:880:LYS:HD3	1.78	0.47
1:C:981:GLU:O	1:C:981:GLU:HG3	2.14	0.47
1:C:574:HIS:HE1	1:C:575:HIS:CE1	2.32	0.47
1:C:1349:ILE:HD12	1:C:1351:HIS:O	2.14	0.47
1:A:685:ASN:HA	1:A:690:LYS:HD2	1.97	0.47
2:D:2105:SER:OG	2:D:2164:HIS:HD2	1.97	0.47
2:D:2275:LEU:HA	2:D:2281:ALA:CB	2.45	0.47
2:D:2124:LEU:HD13	2:D:2125:PRO:CG	2.44	0.47
2:B:2286:ILE:HG23	2:B:2287:PHE:N	2.28	0.47
2:B:2170:VAL:CG1	2:B:2288:PHE:CD1	2.95	0.47
2:B:2287:PHE:CZ	2:B:2291:HIS:CE1	3.03	0.47
2:B:1924:LEU:HD22	2:B:1924:LEU:H	1.77	0.47
1:A:1086:LEU:HB2	1:A:1090:ILE:HG21	1.94	0.47
2:D:2527:MET:HA	2:D:2535:TYR:CB	2.44	0.47
2:D:2539:ALA:HA	2:D:2573:TYR:OH	2.15	0.47
1:C:1242:HIS:HB2	1:C:1476:TYR:CE1	2.41	0.47
1:C:1457:THR:HG23	1:C:1458:THR:N	2.30	0.47
1:C:1515:TYR:HD2	1:C:1521:TYR:O	1.94	0.47
1:C:698:LEU:HD13	1:C:698:LEU:C	2.35	0.47
1:A:179:HIS:CE1	1:A:209:HIS:CD2	3.03	0.47
1:A:67:HIS:HA	1:A:267:LEU:HG	1.96	0.47
1:A:65:PHE:CD1	1:A:66:PRO:HD3	2.50	0.47
1:A:196:ASN:HB3	1:A:198:GLU:OE2	2.14	0.47
1:A:1257:ARG:CB	1:A:1521:TYR:HD1	2.09	0.47
1:A:1280:ILE:HD12	1:A:1330:ALA:HB1	1.97	0.47
1:C:206:PHE:CZ	1:C:210:HIS:CE1	3.03	0.47
1:C:65:PHE:CE2	1:C:69:HIS:CE1	3.03	0.47
1:C:65:PHE:HD1	1:C:66:PRO:HD3	1.80	0.47
2:D:3349:PHE:CD1	2:D:3375:PHE:CE1	3.03	0.47
2:B:3059:LEU:HD12	2:B:3187:LEU:HD21	1.97	0.47
1:C:1218:ASP:N	1:C:1224:LEU:HD21	2.30	0.47
1:C:1214:TYR:HE1	1:C:1231:GLN:HE22	1.62	0.47
2:D:1893:ARG:HG3	2:D:1894:PHE:N	2.29	0.47
1:C:901:PHE:CE2	1:C:905:HIS:CE1	3.03	0.47
2:B:2452:PHE:CD2	2:B:2458:PHE:HD1	2.32	0.47
2:D:2970:PHE:CE1	2:D:2974:HIS:CE1	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2946:HIS:HE1	2:D:3093:LEU:HD12	1.80	0.47
1:A:486:ILE:HB	1:A:662:LEU:CG	2.44	0.47
2:D:2910:LYS:HE3	2:D:2992:LEU:HD13	1.97	0.47
2:B:3078:VAL:CG1	2:B:3082:ILE:HD13	2.43	0.47
2:B:3144:PHE:HD2	2:B:3155:THR:HG23	1.75	0.47
1:C:305:ALA:HB2	1:C:362:LEU:CD1	2.39	0.47
1:C:487:PHE:CE2	1:C:491:HIS:CE1	3.03	0.47
1:C:746:PHE:HA	1:C:757:ALA:H	1.79	0.47
1:A:302:ARG:CZ	1:A:304:PHE:CZ	2.95	0.47
2:B:3274:LEU:HD13	2:B:3275:LYS:N	2.29	0.47
2:B:2602:LEU:HB3	2:B:2603:PRO:HD2	1.97	0.47
2:B:2148:HIS:CD2	2:B:2348:VAL:CG2	2.98	0.47
1:A:991:ILE:HD12	1:A:995:VAL:HG13	1.97	0.47
2:D:1798:GLU:HG3	2:D:1800:VAL:HB	1.97	0.47
1:C:318:VAL:CG1	1:C:341:PHE:CE1	2.95	0.47
1:A:1023:GLY:HA2	1:A:1026:GLN:HE22	1.77	0.47
1:C:1379:ILE:HD13	1:C:1444:TYR:CD1	2.49	0.47
1:C:1379:ILE:HG13	1:C:1447:PHE:CZ	2.49	0.47
2:B:2132:HIS:O	2:B:2135:GLU:HG3	2.15	0.47
2:D:2127:LYS:HZ2	2:D:2131:SER:HB2	1.80	0.47
1:C:925:LEU:HD13	1:C:1043:TYR:HB3	1.96	0.47
1:C:1398:ASP:O	1:C:1402:GLU:HG3	2.14	0.47
2:B:3136:ILE:H	2:B:3136:ILE:CD1	2.26	0.47
2:B:2862:PHE:CE1	2:B:2864:PHE:CE1	2.98	0.47
2:D:2876:LEU:HD22	2:D:2876:LEU:N	2.29	0.47
2:B:2640:ARG:H	2:B:2643:GLU:HB3	1.80	0.47
1:C:685:ASN:HA	1:C:690:LYS:HD2	1.97	0.47
1:A:91:TYR:HB2	1:A:212:ASN:CA	2.45	0.47
2:D:2128:CYS:SG	2:D:2138:CYS:N	2.87	0.47
2:D:2141:HIS:HA	2:D:2146:PHE:CD2	2.47	0.47
2:D:2155:LEU:HD13	2:D:2158:GLU:OE1	2.14	0.47
2:B:2091:LEU:HD13	2:B:2099:LEU:HD12	1.97	0.47
2:B:2149:TRP:HD1	2:B:2326:MET:CG	2.27	0.47
1:C:514:TRP:CZ3	1:C:628:LEU:HD11	2.47	0.47
1:A:206:PHE:CZ	1:A:210:HIS:CE1	3.03	0.47
1:A:1261:ASN:ND2	1:A:1264:ASN:H	2.13	0.47
1:A:427:ASN:N	1:A:513:TYR:CE1	2.82	0.47
1:A:502:LEU:HA	1:A:505:ARG:HD2	1.95	0.47
1:A:615:PHE:CE1	1:A:622:TYR:CZ	3.03	0.47
1:A:560:ARG:NH1	1:A:628:LEU:HD22	2.29	0.47
1:C:196:ASN:HB3	1:C:198:GLU:OE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3306:ILE:HG21	2:D:3329:MET:SD	2.54	0.47
2:D:1806:ILE:HG22	2:D:1806:ILE:O	2.15	0.47
2:D:1909:MET:HB3	2:D:1935:GLU:HG2	1.96	0.47
1:C:897:GLY:HA3	1:C:1185:TRP:CD2	2.50	0.47
2:D:1991:GLN:HA	2:D:2002:ALA:H	1.78	0.47
2:B:1988:VAL:CG2	2:B:2005:PHE:CE1	2.98	0.47
2:B:2621:TYR:CD1	2:B:2622:LEU:N	2.83	0.47
1:A:853:LEU:N	1:A:921:TYR:CE1	2.82	0.47
2:D:2036:ARG:HB2	2:D:2039:GLU:HG2	1.96	0.47
1:A:383:LEU:HD23	1:A:391:LEU:CD2	2.39	0.47
1:C:928:TRP:HE1	1:C:934:LEU:HD12	1.79	0.47
2:D:1955:TRP:CB	2:D:1960:ILE:HD13	2.45	0.47
1:A:1398:ASP:O	1:A:1402:GLU:HG3	2.14	0.47
2:D:3024:ILE:HB	2:D:3028:ASN:O	2.15	0.47
2:D:3027:ILE:HG23	2:D:3028:ASN:N	2.30	0.47
1:C:1201:ASP:O	1:C:1203:LYS:HD2	2.15	0.47
2:D:2640:ARG:H	2:D:2643:GLU:HB3	1.80	0.47
2:B:2717:TYR:HD1	2:B:2779:LYS:HZ2	1.57	0.47
2:D:2388:PHE:HD1	2:D:2433:PHE:O	1.98	0.47
2:B:2128:CYS:SG	2:B:2138:CYS:N	2.87	0.47
2:B:2212:HIS:CE1	2:B:2280:TYR:CE1	3.03	0.47
2:B:2256:PHE:CZ	2:B:2294:VAL:CG2	2.95	0.47
2:B:2371:ILE:HG13	2:B:2372:GLU:N	2.29	0.47
1:C:1086:LEU:CD2	1:C:1090:ILE:HG21	2.45	0.47
1:C:1259:ARG:HG3	1:C:1339:ALA:HB3	1.97	0.47
1:C:676:LEU:HD21	1:C:1364:SER:OG	2.15	0.47
1:C:1320:HIS:CD2	1:C:1455:HIS:CD2	3.03	0.47
1:C:1467:ASP:CB	1:C:1470:ARG:HH12	2.25	0.47
1:C:547:SER:O	1:C:556:PRO:HD2	2.15	0.47
1:A:263:THR:HG23	1:A:266:ASP:H	1.80	0.47
1:A:60:HIS:CE1	1:A:197:LEU:HD21	2.49	0.47
1:A:1262:ILE:HG13	1:A:1263:GLU:N	2.29	0.47
1:A:1427:LEU:HG	1:A:1454:HIS:ND1	2.30	0.47
1:A:1451:PHE:CE2	1:A:1455:HIS:CE1	3.03	0.47
1:A:549:ILE:HG22	1:A:552:GLU:HG2	1.94	0.47
1:C:65:PHE:CD1	1:C:66:PRO:HD3	2.50	0.47
2:D:3264:THR:HB	2:D:3267:HIS:HB3	1.96	0.47
1:C:1108:TYR:CD2	1:C:1109:LYS:N	2.83	0.47
2:B:2970:PHE:CZ	2:B:3072:GLU:HG3	2.50	0.47
2:D:1763:ARG:NH2	2:D:1811:LEU:HD13	2.30	0.47
2:B:1847:HIS:CE1	2:B:1877:HIS:CD2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3349:PHE:HB3	2:B:3375:PHE:CE1	2.50	0.47
2:D:2999:TRP:HE3	2:D:3051:ILE:HG21	1.77	0.47
2:D:3123:ARG:NH2	2:D:3191:LEU:HD13	2.30	0.47
2:D:3059:LEU:HD12	2:D:3187:LEU:HD21	1.97	0.47
1:A:897:GLY:HA3	1:A:1185:TRP:CD2	2.50	0.47
2:B:2621:TYR:HE2	2:B:2693:TYR:HH	1.61	0.47
2:B:3209:ILE:HD13	2:B:3209:ILE:N	2.19	0.47
2:B:3274:LEU:CD1	2:B:3276:LYS:HG3	2.45	0.47
2:D:2322:MET:HE1	2:D:2349:PHE:CE1	2.44	0.47
1:C:975:VAL:HG22	1:C:976:GLN:N	2.29	0.47
2:B:1798:GLU:HG3	2:B:1800:VAL:HB	1.97	0.47
1:A:971:THR:HG22	1:A:972:THR:N	2.30	0.47
1:C:971:THR:HG22	1:C:972:THR:N	2.30	0.47
1:C:373:LEU:H	1:C:373:LEU:CD2	2.26	0.47
1:C:312:PHE:CG	1:C:313:GLY:N	2.83	0.47
1:C:216:ILE:HD13	1:C:219:ILE:CD1	2.44	0.47
1:A:312:PHE:CG	1:A:313:GLY:N	2.83	0.47
2:D:3200:VAL:HG13	2:D:3254:ILE:HG12	1.97	0.47
1:C:91:TYR:HB2	1:C:212:ASN:CA	2.45	0.47
1:A:36:GLN:HG3	1:A:129:ASP:OD2	2.15	0.47
2:D:2146:PHE:HD1	2:D:2147:PRO:CD	2.26	0.47
2:D:2208:TYR:CE2	2:D:2210:PRO:HG3	2.49	0.47
2:B:2182:ILE:CG2	2:B:2187:THR:CG2	2.93	0.47
2:B:2155:LEU:CD1	2:B:2354:LEU:HB3	2.44	0.47
1:A:198:GLU:HG2	1:A:199:TYR:N	2.30	0.47
1:A:197:LEU:CD2	1:A:344:LEU:HD12	2.40	0.47
1:A:1259:ARG:HG3	1:A:1339:ALA:HB3	1.97	0.47
1:A:1451:PHE:CZ	1:A:1455:HIS:CE1	3.03	0.47
1:A:676:LEU:HD21	1:A:1364:SER:OG	2.15	0.47
1:A:557:HIS:HB3	1:A:613:GLU:OE1	2.14	0.47
1:A:549:ILE:HD13	1:A:622:TYR:CE1	2.50	0.47
1:C:273:LEU:CD1	1:C:273:LEU:H	2.27	0.47
1:A:1657:THR:N	2:B:1898:SER:CB	2.77	0.47
2:D:3374:TYR:O	2:D:3375:PHE:HB2	2.15	0.47
2:D:3387:ASN:HD22	2:D:3387:ASN:C	2.16	0.47
2:B:2970:PHE:CE1	2:B:2974:HIS:CE1	3.03	0.47
2:D:1854:VAL:CG2	2:D:1862:ILE:HG21	2.45	0.47
2:B:1757:TRP:H	2:B:1876:ILE:HG22	1.80	0.47
2:B:1763:ARG:NH2	2:B:1811:LEU:HD13	2.30	0.47
1:C:1662:THR:CB	2:D:1893:ARG:HB2	2.38	0.47
2:D:2384:VAL:O	2:D:2437:ILE:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1150:GLY:HA2	1:C:1176:LEU:CD2	2.45	0.47
1:C:1151:PHE:O	1:C:1153:LYS:HD2	2.13	0.47
2:B:2401:PHE:CD1	2:B:2460:ILE:HG21	2.50	0.47
2:D:3049:SER:O	2:D:3050:SER:HB2	2.14	0.47
1:A:897:GLY:HA3	1:A:1185:TRP:CE3	2.50	0.47
1:A:487:PHE:CE2	1:A:491:HIS:CE1	3.03	0.47
1:A:516:TRP:NE1	1:A:608:TRP:CZ3	2.83	0.47
2:D:3016:ASN:HD22	2:D:3016:ASN:N	2.12	0.47
2:B:3016:ASN:N	2:B:3016:ASN:HD22	2.12	0.47
1:C:490:TRP:HA	1:C:667:LEU:HD13	1.97	0.47
1:C:720:HIS:O	1:C:723:GLN:HB3	2.15	0.47
2:D:2687:THR:HG23	2:D:2690:TYR:HB2	1.95	0.47
1:A:852:GLU:HB2	1:A:921:TYR:CD1	2.50	0.47
2:B:2593:TRP:CH2	2:B:2602:LEU:HD22	2.50	0.47
1:A:1395:PHE:CE1	1:A:1430:LEU:CD2	2.95	0.47
1:A:995:VAL:HG23	1:A:996:LEU:N	2.30	0.47
1:C:1345:TRP:CE3	1:C:1400:PHE:CD2	3.03	0.47
2:B:2754:LYS:O	2:B:2758:VAL:HG23	2.13	0.47
1:C:1034:ARG:HG3	1:C:1035:TYR:N	2.29	0.47
1:C:1557:ASN:ND2	1:C:1588:ILE:HG12	2.30	0.47
1:C:1219:LEU:HD11	1:C:1220:LYS:HG3	1.95	0.47
2:B:1689:MET:HE2	2:B:1698:PHE:CD1	2.50	0.47
2:B:3027:ILE:HG23	2:B:3028:ASN:N	2.30	0.47
2:B:3139:VAL:O	2:B:3139:VAL:HG13	2.14	0.47
1:C:1542:GLU:OE2	2:D:2502:HIS:N	2.47	0.47
2:D:2640:ARG:HB3	2:D:2643:GLU:H	1.80	0.47
1:C:864:LYS:HE2	1:C:864:LYS:CA	2.43	0.47
2:D:2182:ILE:CG2	2:D:2187:THR:CG2	2.93	0.46
2:B:2275:LEU:HA	2:B:2281:ALA:CB	2.45	0.46
2:B:2539:ALA:HA	2:B:2573:TYR:OH	2.15	0.46
1:C:579:PHE:HE1	1:C:718:MET:HE1	1.75	0.46
1:A:156:MET:HA	1:A:159:VAL:HG22	1.97	0.46
1:A:208:LEU:HD12	1:A:208:LEU:H	1.79	0.46
1:A:65:PHE:CE2	1:A:69:HIS:CE1	3.03	0.46
2:B:2566:PHE:CE2	2:B:2570:HIS:CE1	3.03	0.46
1:A:1254:SER:CB	1:A:1522:ALA:CB	2.88	0.46
1:A:1261:ASN:ND2	1:A:1263:GLU:HB2	2.30	0.46
1:A:1316:PHE:CE1	1:A:1320:HIS:CE1	3.03	0.46
1:A:1316:PHE:HD2	1:A:1317:PRO:CD	2.28	0.46
1:A:1476:TYR:HE2	1:A:1477:ARG:HB2	1.66	0.46
1:A:560:ARG:CZ	1:A:617:MET:CG	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3318:VAL:CG2	2:D:3394:HIS:HB3	2.45	0.46
1:C:860:LEU:CD1	1:C:916:LEU:HD12	2.45	0.46
1:A:1566:VAL:HG12	1:A:1567:PHE:N	2.29	0.46
2:B:1770:LEU:HD12	2:B:1770:LEU:H	1.79	0.46
2:D:1730:PHE:CE2	2:D:1734:HIS:CE1	3.03	0.46
2:B:3270:PHE:CE1	2:B:3290:PRO:HD2	2.50	0.46
1:A:462:HIS:CE1	1:A:623:THR:HG21	2.50	0.46
1:C:1042:PHE:CZ	1:C:1046:HIS:CE1	3.03	0.46
1:A:1042:PHE:CE2	1:A:1046:HIS:CE1	3.02	0.46
2:D:2976:LEU:CD2	2:D:3155:THR:HG23	2.41	0.46
2:B:2984:ALA:O	2:B:2987:LYS:HG2	2.14	0.46
2:D:1988:VAL:CG2	2:D:2005:PHE:CE1	2.98	0.46
1:C:490:TRP:CB	1:C:667:LEU:HD13	2.45	0.46
1:A:723:GLN:CG	1:A:826:ARG:HE	2.29	0.46
1:A:1395:PHE:CZ	1:A:1430:LEU:CD2	2.97	0.46
1:A:991:ILE:HG23	1:A:992:ALA:H	1.80	0.46
2:D:1931:PHE:HB3	2:D:1943:PHE:HZ	1.80	0.46
2:D:1817:LYS:HG2	2:D:1820:HIS:HE1	1.80	0.46
2:D:2754:LYS:HD2	2:D:2754:LYS:N	2.30	0.46
1:C:779:PHE:CD2	1:C:780:ASP:N	2.83	0.46
2:D:2132:HIS:O	2:D:2135:GLU:HG3	2.15	0.46
2:D:2548:CYS:HB3	2:D:2556:TYR:CZ	2.50	0.46
1:C:232:LYS:HE2	1:C:232:LYS:N	2.30	0.46
1:A:1101:VAL:HG23	1:A:1101:VAL:O	2.15	0.46
1:C:532:TYR:HE2	1:C:534:ASP:HB2	1.80	0.46
2:D:2256:PHE:CZ	2:D:2294:VAL:CG2	2.95	0.46
2:B:1914:LYS:HB3	2:B:1915:PRO:HA	1.97	0.46
2:D:1920:ALA:CB	2:D:1921:PRO:HA	2.30	0.46
2:B:2534:GLY:O	2:B:2538:ILE:HG23	2.16	0.46
2:B:2539:ALA:HB1	2:B:2692:THR:CG2	2.45	0.46
2:D:2534:GLY:O	2:D:2538:ILE:HG23	2.16	0.46
2:D:2538:ILE:HD13	2:D:2577:MET:CE	2.01	0.46
1:C:1261:ASN:ND2	1:C:1264:ASN:H	2.13	0.46
1:C:1486:MET:O	1:C:1509:PRO:HD2	2.14	0.46
1:A:206:PHE:CE2	1:A:210:HIS:CE1	3.03	0.46
1:A:1244:GLU:HA	1:A:1249:GLN:OE1	2.15	0.46
1:A:428:ILE:HD13	1:A:514:TRP:CA	2.44	0.46
1:A:547:SER:O	1:A:556:PRO:HD2	2.15	0.46
2:B:1893:ARG:HG3	2:B:1894:PHE:N	2.29	0.46
2:D:3325:LYS:CD	2:D:3367:TYR:HB2	2.45	0.46
1:C:853:LEU:CD2	1:C:921:TYR:CZ	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3123:ARG:NH2	2:B:3191:LEU:HD13	2.30	0.46
2:B:1786:ASN:OD1	2:B:1788:PHE:HB2	2.15	0.46
2:B:3340:LEU:HD22	2:B:3377:THR:HG22	1.95	0.46
2:D:3183:ASN:HD21	2:D:3186:GLU:HB2	1.78	0.46
1:A:490:TRP:HB2	1:A:667:LEU:HD13	1.98	0.46
1:A:743:VAL:CG1	1:A:800:VAL:HG13	2.45	0.46
2:B:3277:TYR:HB2	2:B:3282:LEU:HD23	1.98	0.46
1:C:650:ARG:O	1:C:651:HIS:HB2	2.15	0.46
1:C:931:THR:HA	1:C:991:ILE:HG12	1.96	0.46
1:C:991:ILE:HG23	1:C:992:ALA:H	1.80	0.46
1:A:1017:TYR:O	1:A:1021:LEU:HD23	2.14	0.46
1:C:383:LEU:HD23	1:C:391:LEU:CD2	2.39	0.46
1:A:749:THR:HG23	1:A:752:SER:H	1.80	0.46
1:A:1498:ASN:HD21	1:A:1503:THR:HG21	1.80	0.46
2:B:2962:CYS:HB3	2:B:3143:PRO:CD	2.41	0.46
1:C:117:LYS:HB3	1:C:119:HIS:NE2	2.30	0.46
2:B:2950:ASN:HB3	2:B:2960:TYR:N	2.30	0.46
2:D:2919:GLU:O	2:D:2922:GLU:HG2	2.15	0.46
1:A:1405:LEU:CD1	1:A:1540:LEU:HD21	2.45	0.46
2:D:3029:GLN:HG2	2:D:3088:TYR:CE2	2.51	0.46
2:D:2821:HIS:HB3	2:D:2850:VAL:HG13	1.96	0.46
2:B:2870:ASP:N	2:B:2876:LEU:HD21	2.30	0.46
2:B:2986:LYS:HD2	2:B:2990:SER:O	2.15	0.46
2:D:2395:THR:HG22	2:D:2396:SER:N	2.31	0.46
2:D:2287:PHE:CE2	2:D:2291:HIS:CE1	3.03	0.46
2:B:2155:LEU:HD13	2:B:2158:GLU:OE1	2.14	0.46
2:B:2399:VAL:HG23	2:B:2399:VAL:O	2.14	0.46
2:B:1714:PRO:HG2	2:B:1922:TYR:CD2	2.36	0.46
1:A:875:PHE:CE2	1:A:1083:PRO:HB2	2.51	0.46
2:B:2577:MET:HE2	2:B:2698:TRP:CE2	2.50	0.46
1:C:875:PHE:CE2	1:C:1083:PRO:HB2	2.51	0.46
1:C:1086:LEU:HD12	1:C:1086:LEU:N	2.30	0.46
1:C:1280:ILE:HD12	1:C:1330:ALA:HB1	1.97	0.46
1:C:464:LEU:HA	1:C:465:PRO:C	2.35	0.46
1:C:520:MET:O	1:C:567:PHE:HB2	2.15	0.46
1:C:549:ILE:HD13	1:C:622:TYR:CE1	2.50	0.46
1:A:163:LEU:HD13	1:A:163:LEU:C	2.35	0.46
1:A:1320:HIS:CD2	1:A:1455:HIS:CD2	3.03	0.46
1:A:424:VAL:HG12	1:A:425:ARG:N	2.30	0.46
2:D:3263:LEU:CD2	2:D:3269:LYS:HD2	2.44	0.46
1:A:1580:SER:O	1:A:1581:HIS:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1847:HIS:CE1	2:D:1877:HIS:CD2	3.03	0.46
1:A:1158:LYS:CA	1:A:1173:GLU:HG2	2.46	0.46
2:B:3349:PHE:CD1	2:B:3375:PHE:CE1	3.03	0.46
1:C:897:GLY:HA3	1:C:1185:TRP:CE3	2.50	0.46
2:D:2999:TRP:CH2	2:D:3074:LEU:CD1	2.93	0.46
1:A:1150:GLY:HA2	1:A:1176:LEU:CD2	2.45	0.46
1:C:304:PHE:HA	1:C:360:PHE:O	2.14	0.46
1:C:1549:VAL:CG1	1:C:1611:LEU:HD12	2.37	0.46
2:B:1865:LEU:HD22	2:B:2013:GLU:OE2	2.15	0.46
1:A:839:ARG:HH22	1:A:909:THR:HG23	1.79	0.46
1:A:1409:GLU:OE2	1:A:1544:LYS:CE	2.63	0.46
1:C:591:TYR:HD1	1:C:643:TRP:CH2	2.34	0.46
1:C:1345:TRP:CH2	1:C:1400:PHE:HE2	2.31	0.46
1:C:1400:PHE:CD1	1:C:1400:PHE:N	2.83	0.46
1:C:991:ILE:HD12	1:C:995:VAL:HG13	1.97	0.46
1:C:321:TYR:HD2	1:C:337:LYS:HA	1.78	0.46
2:D:3274:LEU:CD1	2:D:3276:LYS:HG3	2.45	0.46
1:C:749:THR:HG23	1:C:752:SER:H	1.80	0.46
1:A:779:PHE:CD2	1:A:780:ASP:N	2.83	0.46
2:D:1686:LEU:CD1	2:D:1689:MET:HE1	2.45	0.46
2:D:2805:LYS:HG2	2:D:2806:SER:H	1.79	0.46
1:A:101:LEU:CB	1:A:106:ALA:HB2	2.46	0.46
2:D:2666:PHE:CE1	2:D:2707:ILE:HB	2.50	0.46
2:B:2640:ARG:HB3	2:B:2643:GLU:H	1.80	0.46
1:C:187:GLY:HA3	1:C:195:ALA:HB2	1.96	0.46
2:D:2718:ARG:HG3	2:D:2782:GLU:OE2	2.15	0.46
2:D:2115:PHE:CD1	2:D:2157:PHE:HE2	2.34	0.46
2:D:2146:PHE:CE2	2:D:2150:HIS:CE1	3.03	0.46
2:D:2085:ARG:HA	2:D:2169:ALA:HB3	1.97	0.46
2:D:2170:VAL:CB	2:D:2288:PHE:CE1	2.95	0.46
2:B:2118:ILE:HA	2:B:2121:PHE:CD1	2.51	0.46
2:B:2287:PHE:CE2	2:B:2291:HIS:CE1	3.03	0.46
2:B:2388:PHE:HD1	2:B:2433:PHE:O	1.98	0.46
2:B:1695:SER:HB2	2:D:2195:TRP:CB	2.42	0.46
2:D:2195:TRP:CG	2:D:2196:ARG:N	2.84	0.46
1:A:1086:LEU:CD2	1:A:1090:ILE:HG21	2.45	0.46
2:B:2559:CYS:HB3	2:B:2561:HIS:CE1	2.51	0.46
2:D:2539:ALA:HB1	2:D:2692:THR:CG2	2.45	0.46
2:D:2559:CYS:HB3	2:D:2561:HIS:CE1	2.51	0.46
1:C:1244:GLU:HA	1:C:1249:GLN:OE1	2.15	0.46
1:C:1316:PHE:CE1	1:C:1320:HIS:CE1	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1362:TYR:CE2	1:C:1364:SER:CA	2.95	0.46
1:C:1451:PHE:CZ	1:C:1455:HIS:CE1	3.03	0.46
1:C:438:ASN:ND2	1:C:508:THR:HG22	2.30	0.46
1:C:615:PHE:CE1	1:C:622:TYR:CZ	3.03	0.46
1:A:1293:HIS:CB	1:A:1446:ALA:HB2	2.46	0.46
1:C:156:MET:CE	1:C:285:MET:HE2	2.46	0.46
1:C:344:LEU:HD13	1:C:344:LEU:C	2.36	0.46
1:C:1079:GLU:H	2:D:2456:GLU:CG	2.20	0.46
1:A:1618:LEU:CD2	1:A:1648:PHE:CB	2.94	0.46
2:B:3051:ILE:HG22	2:B:3052:PHE:N	2.27	0.46
2:D:1843:PHE:CE1	2:D:1884:ILE:CG1	2.95	0.46
2:D:1851:HIS:HA	2:D:1862:ILE:HG21	1.94	0.46
1:C:1171:ALA:CA	1:C:1198:LYS:HE2	2.46	0.46
2:B:3325:LYS:CD	2:B:3367:TYR:HB2	2.45	0.46
2:B:2384:VAL:O	2:B:2437:ILE:HG22	2.15	0.46
2:B:2403:ILE:HD12	2:B:2460:ILE:CD1	2.30	0.46
1:A:490:TRP:CB	1:A:667:LEU:HD13	2.45	0.46
1:A:304:PHE:HA	1:A:360:PHE:O	2.14	0.46
2:D:2593:TRP:CH2	2:D:2602:LEU:HD22	2.50	0.46
2:B:1955:TRP:CB	2:B:1960:ILE:HD13	2.45	0.46
1:C:493:LEU:CD2	1:C:670:PHE:CE1	2.95	0.46
1:A:666:HIS:HB3	1:A:686:ALA:HB1	1.97	0.46
1:C:821:ILE:HD12	1:C:821:ILE:C	2.34	0.46
2:B:2548:CYS:HB3	2:B:2556:TYR:CZ	2.50	0.46
2:B:2975:ARG:NH1	2:B:3114:ILE:HD11	2.30	0.46
2:B:2950:ASN:HB2	2:B:2960:TYR:H	1.81	0.46
2:D:2605:PHE:CE2	2:D:2614:PHE:CE2	2.96	0.46
1:C:1405:LEU:CD1	1:C:1540:LEU:HD21	2.46	0.46
2:D:2986:LYS:HD2	2:D:2990:SER:O	2.15	0.46
2:B:2651:LEU:HD21	2:B:2785:LEU:HD23	1.98	0.46
2:D:2797:ALA:HB1	2:D:2842:LEU:CB	2.44	0.46
1:A:1508:THR:HG22	1:A:1511:ASP:OD2	2.14	0.46
2:D:2150:HIS:CD2	2:D:2291:HIS:CD2	3.03	0.46
2:D:2278:LEU:N	2:D:2419:LEU:HD21	2.29	0.46
2:B:2146:PHE:CE2	2:B:2150:HIS:CE1	3.03	0.46
2:B:2115:PHE:CD1	2:B:2157:PHE:HE2	2.34	0.46
2:B:2149:TRP:CD1	2:B:2326:MET:SD	3.08	0.46
2:D:2535:TYR:HH	2:D:2698:TRP:HZ3	1.60	0.46
1:C:1293:HIS:CB	1:C:1446:ALA:HB2	2.46	0.46
1:C:1427:LEU:HG	1:C:1454:HIS:ND1	2.30	0.46
1:C:1442:LEU:CD2	1:C:1589:LEU:HD12	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:438:ASN:CG	1:C:508:THR:HG22	2.36	0.46
1:C:694:TYR:HB2	1:C:700:TYR:CZ	2.48	0.46
1:A:263:THR:HG23	1:A:263:THR:O	2.16	0.46
1:A:344:LEU:HD13	1:A:344:LEU:C	2.36	0.46
1:A:438:ASN:ND2	1:A:508:THR:HG22	2.30	0.46
1:C:197:LEU:HA	1:C:344:LEU:HD11	1.97	0.46
2:D:3308:ILE:HG12	2:D:3331:VAL:HG12	1.97	0.46
1:C:839:ARG:HH22	1:C:909:THR:HG23	1.79	0.46
2:D:2479:ALA:CB	2:D:2480:PRO:HD2	2.31	0.46
2:D:1854:VAL:HG23	2:D:1855:GLY:N	2.29	0.46
1:A:1171:ALA:CA	1:A:1198:LYS:HE2	2.46	0.46
1:C:1161:ILE:HB	1:C:1198:LYS:HZ3	1.76	0.46
2:B:3347:ALA:HB1	2:D:3315:PRO:HG2	1.96	0.46
2:D:2402:GLN:CD	2:D:2412:HIS:HA	2.36	0.46
2:D:3051:ILE:HG22	2:D:3052:PHE:N	2.27	0.46
1:A:810:LEU:HD13	1:A:814:LEU:HD13	1.98	0.46
1:C:1568:VAL:HG13	1:C:1622:PHE:CD1	2.51	0.46
1:C:723:GLN:HG3	1:C:826:ARG:HE	1.81	0.46
2:D:2621:TYR:CD1	2:D:2622:LEU:N	2.83	0.46
2:D:2580:ALA:O	2:D:2584:HIS:HD2	1.97	0.46
1:A:1145:GLY:CA	1:A:1190:VAL:HG11	2.44	0.46
1:C:1032:SER:CB	1:C:1035:TYR:HD2	2.29	0.46
1:C:964:ILE:HG21	1:C:967:VAL:HG22	1.98	0.46
1:C:1193:TYR:CD1	1:C:1194:ASP:N	2.84	0.46
1:A:171:PHE:CZ	1:A:175:PHE:HB2	2.50	0.46
2:B:1931:PHE:HB3	2:B:1943:PHE:HZ	1.80	0.46
1:A:33:ILE:CD1	1:A:33:ILE:H	2.29	0.46
2:B:3200:VAL:HG13	2:B:3254:ILE:HG12	1.97	0.46
2:D:2651:LEU:HD21	2:D:2785:LEU:HD23	1.97	0.46
1:C:1542:GLU:CG	1:C:1545:ARG:HD3	2.46	0.46
1:A:532:TYR:HE2	1:A:534:ASP:HB2	1.80	0.46
2:D:2118:ILE:HA	2:D:2121:PHE:CD1	2.51	0.46
2:B:1747:LYS:O	2:D:2167:SER:HB2	2.16	0.46
2:B:1920:ALA:HA	2:B:1921:PRO:C	2.36	0.46
2:D:1914:LYS:HB3	2:D:1915:PRO:HA	1.97	0.46
1:C:1261:ASN:ND2	1:C:1263:GLU:HB2	2.30	0.46
1:C:560:ARG:HB2	1:C:610:GLY:HA2	1.97	0.46
1:A:1319:TRP:CB	1:A:1490:LEU:HD21	2.46	0.46
1:A:1510:HIS:O	1:A:1513:PHE:HD2	1.99	0.46
1:A:438:ASN:CG	1:A:508:THR:HG22	2.36	0.46
1:A:698:LEU:CD1	1:A:700:TYR:CD1	2.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:496:THR:HG21	1:A:698:LEU:CD2	2.44	0.46
2:D:3393:VAL:HG12	2:D:3394:HIS:N	2.30	0.46
1:C:921:TYR:CE2	1:C:923:GLY:CA	2.99	0.46
1:C:940:LEU:HD21	1:C:959:TRP:CE2	2.51	0.46
2:B:1854:VAL:CG2	2:B:1862:ILE:HG21	2.45	0.46
2:B:3219:ILE:CG2	2:B:3261:LEU:CD1	2.94	0.46
2:B:3340:LEU:HG	2:B:3341:ASN:N	2.30	0.46
2:D:2067:TYR:CE2	2:D:2069:PRO:HB3	2.51	0.46
2:B:2067:TYR:HE2	2:B:2069:PRO:HB3	1.81	0.46
2:D:3104:ILE:O	2:D:3107:ALA:HB3	2.16	0.46
1:A:405:PRO:CB	1:A:657:HIS:HB3	2.44	0.46
2:B:2910:LYS:HE3	2:B:2992:LEU:HD13	1.97	0.46
2:B:3076:ASN:CB	2:B:3234:VAL:HG13	2.40	0.46
1:A:853:LEU:CD2	1:A:921:TYR:CZ	2.99	0.46
1:C:1409:GLU:OE1	1:C:1544:LYS:HE2	2.13	0.46
1:C:730:ALA:CA	1:C:781:ILE:HD11	2.46	0.46
2:D:2148:HIS:CD2	2:D:2348:VAL:CG2	2.98	0.46
2:B:3038:ALA:C	2:B:3039:ILE:HG13	2.36	0.46
1:C:891:PHE:HB2	1:C:1183:MET:HE2	1.95	0.46
2:D:2870:ASP:N	2:D:2876:LEU:HD21	2.30	0.46
2:D:2756:THR:HG23	2:D:2757:ASP:OD1	2.16	0.46
2:D:2287:PHE:CZ	2:D:2291:HIS:CE1	3.03	0.46
2:D:2149:TRP:CD1	2:D:2326:MET:SD	3.08	0.46
2:B:2240:ALA:HA	2:B:2259:MET:HE1	1.90	0.46
2:B:2285:PRO:O	2:B:2289:ILE:HD13	2.16	0.46
1:A:244:LYS:HZ2	1:A:263:THR:HB	1.75	0.46
1:C:168:PHE:CE1	1:C:217:PHE:CE1	3.04	0.46
1:C:21:ALA:HA	1:C:24:ARG:CG	2.46	0.46
1:C:853:LEU:HD11	1:C:926:PRO:HG2	1.98	0.46
1:A:1626:ILE:HD11	1:A:1638:SER:OG	2.16	0.46
2:B:3071:TYR:CZ	2:B:3109:LEU:CD2	2.96	0.46
2:D:1757:TRP:H	2:D:1876:ILE:HG22	1.80	0.46
2:D:2067:TYR:HE2	2:D:2069:PRO:HB3	1.81	0.46
1:A:688:PRO:O	1:A:691:ILE:HB	2.16	0.46
1:C:516:TRP:NE1	1:C:608:TRP:CZ3	2.83	0.46
1:C:1618:LEU:HD12	1:C:1646:ILE:HD11	1.98	0.46
1:A:860:LEU:CD1	1:A:916:LEU:HD12	2.45	0.46
1:A:412:PRO:HG2	1:A:654:TYR:CB	2.45	0.46
1:A:930:TRP:CB	1:A:1018:ILE:HD11	2.46	0.46
1:A:931:THR:HA	1:A:991:ILE:HG12	1.96	0.46
1:C:1345:TRP:CH2	1:C:1400:PHE:CE2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1953:ALA:CB	2:B:1955:TRP:CZ3	2.95	0.46
1:A:729:TYR:HD1	1:A:821:ILE:CD1	2.28	0.46
1:C:1205:HIS:CD2	1:C:1207:GLU:CG	2.99	0.46
2:B:2975:ARG:HD2	2:B:3164:VAL:CG1	2.46	0.46
1:C:37:LYS:HD3	1:C:37:LYS:C	2.36	0.46
2:B:3088:TYR:N	2:B:3088:TYR:CD1	2.83	0.46
2:D:3088:TYR:CD1	2:D:3088:TYR:N	2.83	0.46
1:C:1483:ILE:HG21	2:D:2037:HIS:O	2.15	0.46
2:D:2805:LYS:HE2	2:D:2870:ASP:HB2	1.98	0.46
1:C:101:LEU:CB	1:C:106:ALA:HB2	2.46	0.46
2:B:2666:PHE:CE1	2:B:2707:ILE:HB	2.50	0.46
1:A:1542:GLU:CG	1:A:1545:ARG:HD3	2.46	0.46
2:D:1783:ASP:O	2:D:1784:ILE:HD13	2.15	0.46
2:B:1784:ILE:CG2	2:B:1785:PRO:N	2.79	0.46
2:B:1958:ARG:HG2	2:B:1962:HIS:CD2	2.51	0.46
2:B:2599:PHE:O	2:B:2635:PHE:HD1	1.99	0.46
2:B:2756:THR:HG23	2:B:2757:ASP:N	2.30	0.46
2:B:2395:THR:HG22	2:B:2396:SER:N	2.31	0.46
2:B:2489:ASP:HB3	2:B:2491:HIS:NE2	2.31	0.46
2:D:2245:GLU:HB3	2:D:2375:ILE:HB	1.98	0.46
2:D:2285:PRO:O	2:D:2289:ILE:HD13	2.16	0.46
2:B:2195:TRP:CG	2:B:2196:ARG:N	2.84	0.46
2:D:1712:PRO:HG3	2:D:1720:PHE:HD2	1.81	0.46
1:C:1451:PHE:CE2	1:C:1455:HIS:CE1	3.03	0.46
1:C:549:ILE:HG22	1:C:552:GLU:HG2	1.94	0.46
1:A:183:HIS:CE1	1:A:194:MET:HE2	2.50	0.46
1:A:1340:VAL:HG13	1:A:1340:VAL:O	2.14	0.46
1:A:1352:LEU:HD12	1:A:1352:LEU:N	2.30	0.46
1:A:520:MET:O	1:A:567:PHE:HB2	2.15	0.46
1:C:198:GLU:HG2	1:C:199:TYR:N	2.30	0.46
1:A:1566:VAL:O	1:A:1583:ALA:HB3	2.16	0.46
2:D:2965:HIS:HE2	2:D:2974:HIS:CE1	2.33	0.46
1:A:1042:PHE:CZ	1:A:1046:HIS:CE1	3.03	0.46
1:A:745:ILE:CD1	1:A:800:VAL:HG22	2.45	0.46
2:D:3144:PHE:HA	2:D:3149:VAL:CG1	2.44	0.46
2:B:2714:LEU:HD11	2:B:2781:LEU:CD2	2.45	0.46
1:C:743:VAL:CG1	1:C:800:VAL:CG1	2.94	0.46
1:C:1566:VAL:HG22	1:C:1626:ILE:CG2	2.45	0.46
1:A:324:ILE:HG23	1:A:325:PRO:HD2	1.97	0.46
1:C:723:GLN:HA	1:C:727:ARG:NH2	2.30	0.46
2:B:3243:PRO:HG3	2:D:3354:PRO:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1400:PHE:CD1	1:A:1400:PHE:N	2.83	0.46
1:A:730:ALA:CA	1:A:781:ILE:HD11	2.46	0.46
1:C:1345:TRP:CZ2	1:C:1430:LEU:CD2	2.96	0.46
1:A:1032:SER:CB	1:A:1035:TYR:HD2	2.28	0.46
2:B:2754:LYS:HD2	2:B:2754:LYS:N	2.30	0.46
2:B:2764:PHE:O	2:B:2765:ASN:HB2	2.16	0.46
1:C:1141:ARG:CG	1:C:1143:PHE:CE1	2.94	0.46
2:D:3217:VAL:HA	2:D:3273:ASP:CG	2.36	0.46
2:B:2919:GLU:O	2:B:2922:GLU:HG2	2.15	0.46
2:D:2975:ARG:HD2	2:D:3164:VAL:CG1	2.46	0.46
2:D:3038:ALA:C	2:D:3039:ILE:HG13	2.36	0.46
1:A:117:LYS:HB3	1:A:119:HIS:NE2	2.30	0.46
1:C:1405:LEU:CD1	1:C:1540:LEU:CD2	2.94	0.46
2:D:3024:ILE:O	2:D:3025:ARG:HB3	2.14	0.46
1:A:788:LEU:CB	1:A:790:LEU:HG	2.45	0.46
2:B:1683:VAL:HG23	2:B:1787:PRO:HD2	1.98	0.46
2:B:2729:ILE:HG22	2:B:2733:LYS:HZ2	1.80	0.46
1:C:861:LYS:NZ	1:C:963:HIS:H	2.14	0.46
2:D:2277:SER:HB3	2:D:2280:TYR:HB2	1.98	0.46
2:B:2577:MET:CB	2:B:2698:TRP:NE1	2.79	0.46
1:C:1316:PHE:HD2	1:C:1317:PRO:CD	2.28	0.46
1:C:424:VAL:HG12	1:C:425:ARG:N	2.30	0.46
1:A:197:LEU:HA	1:A:344:LEU:HD11	1.97	0.46
1:A:163:LEU:CD1	1:A:294:LEU:HD11	2.20	0.46
1:A:5:ARG:NH1	1:A:89:LEU:HD21	2.22	0.46
1:A:1251:GLU:CD	1:A:1476:TYR:CZ	2.89	0.46
1:A:1457:THR:HG23	1:A:1458:THR:N	2.30	0.46
1:A:469:PRO:HG3	1:A:477:TYR:CE2	2.50	0.46
1:A:694:TYR:HB2	1:A:700:TYR:CZ	2.48	0.46
1:A:694:TYR:CG	1:A:695:GLU:N	2.84	0.46
2:D:3340:LEU:HG	2:D:3341:ASN:N	2.30	0.46
2:D:3387:ASN:HD22	2:D:3388:ASN:N	2.14	0.46
1:A:409:PHE:CE2	2:B:3186:GLU:CD	2.89	0.46
1:A:1159:PHE:CE2	1:A:1171:ALA:HB1	2.51	0.46
2:B:1725:HIS:HA	2:B:1730:PHE:HD2	1.80	0.46
1:C:1159:PHE:CE2	1:C:1171:ALA:HB1	2.51	0.46
2:B:3269:LYS:CA	2:B:3269:LYS:HE3	2.46	0.46
2:B:3217:VAL:HA	2:B:3273:ASP:CG	2.36	0.46
2:D:1990:PHE:CE2	2:D:2002:ALA:HB1	2.51	0.46
1:C:490:TRP:HB2	1:C:667:LEU:HD13	1.97	0.46
1:C:1580:SER:O	1:C:1581:HIS:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1566:VAL:O	1:C:1583:ALA:HB3	2.16	0.46
1:A:903:HIS:CD2	1:A:1053:TRP:CH2	3.01	0.46
1:A:591:TYR:HD1	1:A:643:TRP:CH2	2.34	0.46
1:A:650:ARG:O	1:A:651:HIS:HB2	2.15	0.46
2:D:3234:VAL:HG22	2:D:3235:ILE:N	2.30	0.46
1:A:1205:HIS:CD2	1:A:1207:GLU:CG	2.99	0.46
1:C:729:TYR:HD1	1:C:821:ILE:CD1	2.28	0.46
2:D:1689:MET:HG3	2:D:1748:HIS:CE1	2.51	0.46
2:D:2605:PHE:CE2	2:D:2614:PHE:CZ	3.04	0.46
1:A:1405:LEU:CD1	1:A:1540:LEU:CD2	2.94	0.46
1:C:1101:VAL:HG23	1:C:1101:VAL:O	2.15	0.46
2:D:1978:LEU:HD23	2:D:1978:LEU:C	2.36	0.46
1:A:286:THR:CG2	1:A:287:PRO:HD2	2.46	0.46
2:D:1784:ILE:CG2	2:D:1785:PRO:N	2.78	0.46
1:C:933:PRO:HB2	1:C:981:GLU:HB3	1.98	0.46
2:D:2599:PHE:N	2:D:2599:PHE:CD1	2.84	0.46
2:D:1958:ARG:HG2	2:D:1962:HIS:CD2	2.51	0.46
2:D:2212:HIS:CE1	2:D:2280:TYR:CE1	3.03	0.46
2:B:1712:PRO:HG3	2:B:1720:PHE:HD2	1.81	0.46
2:B:1922:TYR:CE1	2:D:2195:TRP:HE3	2.34	0.46
1:C:882:CYS:N	1:C:893:CYS:SG	2.89	0.46
1:C:1352:LEU:N	1:C:1352:LEU:HD12	2.30	0.46
1:C:1251:GLU:CD	1:C:1476:TYR:CZ	2.89	0.46
2:D:2566:PHE:CE2	2:D:2570:HIS:CE1	3.03	0.46
1:C:446:PHE:CD2	1:C:455:TYR:HD1	2.33	0.46
1:A:21:ALA:HA	1:A:24:ARG:CG	2.46	0.46
1:A:446:PHE:CD2	1:A:455:TYR:HD1	2.33	0.46
1:A:698:LEU:C	1:A:698:LEU:HD13	2.35	0.46
1:A:579:PHE:CZ	1:A:718:MET:HE1	2.51	0.46
1:C:163:LEU:HD13	1:C:163:LEU:C	2.36	0.46
1:C:200:THR:HG23	1:C:201:ALA:N	2.32	0.46
1:C:244:LYS:HB3	1:C:249:SER:HB2	1.96	0.46
2:D:3349:PHE:HB3	2:D:3375:PHE:CE1	2.50	0.46
2:B:1847:HIS:O	2:B:1850:VAL:HG22	2.16	0.46
2:B:3317:LYS:HG3	2:B:3317:LYS:O	2.15	0.46
2:D:3315:PRO:CB	2:D:3316:PRO:HD2	2.46	0.46
1:A:462:HIS:CE1	1:A:629:PHE:HZ	2.31	0.46
2:B:2067:TYR:CE2	2:B:2069:PRO:HB3	2.51	0.46
1:C:1548:ARG:HB2	1:C:1649:GLU:HG2	1.96	0.46
1:C:723:GLN:CG	1:C:826:ARG:HE	2.28	0.46
1:A:1108:TYR:CD2	1:A:1109:LYS:N	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:930:TRP:CB	1:C:1018:ILE:HD11	2.46	0.46
1:C:995:VAL:HG23	1:C:996:LEU:N	2.30	0.46
1:C:1657:THR:N	2:D:1898:SER:OG	2.49	0.46
2:B:2498:SER:O	2:B:3397:ASP:CG	2.52	0.46
2:D:1760:THR:CG2	2:D:1824:ILE:CG1	2.94	0.46
1:A:493:LEU:CD2	1:A:670:PHE:CD1	2.99	0.46
1:A:1067:TYR:CG	1:A:1068:ASN:N	2.84	0.46
2:B:3029:GLN:HG2	2:B:3088:TYR:CE2	2.51	0.46
2:D:2811:PHE:HA	2:D:2865:HIS:O	2.16	0.46
2:B:3279:HIS:HD2	2:B:3280:THR:HG23	1.80	0.46
2:D:1683:VAL:HG23	2:D:1787:PRO:HD2	1.98	0.46
2:D:2091:LEU:HD13	2:D:2099:LEU:HD12	1.97	0.45
2:B:2277:SER:HB3	2:B:2280:TYR:HB2	1.98	0.45
2:B:2538:ILE:O	2:B:2541:PHE:HD1	1.99	0.45
1:C:436:VAL:CG2	1:C:526:LEU:HG	2.46	0.45
1:C:179:HIS:CE1	1:C:209:HIS:CD2	3.03	0.45
2:D:3314:LEU:CD2	2:D:3391:ILE:CG1	2.94	0.45
1:A:1549:VAL:HG13	1:A:1607:ILE:CD1	2.46	0.45
2:B:1757:TRP:HE1	2:B:1763:ARG:NE	2.13	0.45
2:B:3393:VAL:HG12	2:B:3394:HIS:N	2.30	0.45
1:C:895:VAL:CG1	1:C:904:TRP:CB	2.94	0.45
2:B:2402:GLN:CD	2:B:2412:HIS:HA	2.36	0.45
1:A:490:TRP:HA	1:A:667:LEU:HD13	1.97	0.45
1:A:743:VAL:CG1	1:A:800:VAL:CG1	2.94	0.45
1:C:743:VAL:CG1	1:C:800:VAL:HG13	2.45	0.45
1:C:1549:VAL:CG1	1:C:1607:ILE:HG13	2.25	0.45
1:A:322:VAL:CG2	1:A:379:VAL:HG12	2.46	0.45
1:A:921:TYR:CE2	1:A:923:GLY:CA	2.99	0.45
1:A:853:LEU:HD11	1:A:926:PRO:HG2	1.98	0.45
1:A:940:LEU:HD21	1:A:959:TRP:CE2	2.51	0.45
1:A:1345:TRP:CH2	1:A:1400:PHE:CE2	3.03	0.45
2:B:3031:THR:HG21	2:B:3099:ASP:HA	1.97	0.45
1:A:1557:ASN:ND2	1:A:1588:ILE:HG12	2.30	0.45
1:C:48:CYS:HB2	1:C:57:CYS:HB2	1.71	0.45
2:B:1778:PRO:O	2:D:1817:LYS:NZ	2.49	0.45
2:D:2568:HIS:CA	2:D:2758:VAL:HG11	2.42	0.45
1:C:493:LEU:CD2	1:C:670:PHE:CD1	2.99	0.45
2:D:1969:GLU:OE2	2:D:2073:ASP:HB3	2.16	0.45
2:B:3024:ILE:HB	2:B:3028:ASN:O	2.15	0.45
2:B:1978:LEU:C	2:B:1978:LEU:HD23	2.36	0.45
2:B:2864:PHE:CE1	2:B:2886:VAL:CG2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:981:GLU:O	1:A:981:GLU:HG3	2.14	0.45
2:B:1783:ASP:O	2:B:1784:ILE:HD13	2.16	0.45
1:A:861:LYS:NZ	1:A:963:HIS:H	2.14	0.45
2:B:1774:THR:HG22	2:B:1775:ILE:N	2.30	0.45
2:D:2599:PHE:O	2:D:2635:PHE:HD1	1.99	0.45
1:C:1552:GLY:O	1:C:1644:PRO:HB3	2.16	0.45
1:C:36:GLN:HG3	1:C:129:ASP:OD2	2.15	0.45
2:D:2507:GLU:HG3	2:D:2592:TYR:OH	2.16	0.45
1:A:1086:LEU:N	1:A:1086:LEU:HD12	2.30	0.45
1:C:1510:HIS:O	1:C:1513:PHE:HD2	1.99	0.45
1:C:548:VAL:HA	1:C:556:PRO:CD	2.39	0.45
1:A:200:THR:HG23	1:A:201:ALA:N	2.31	0.45
1:A:244:LYS:HB3	1:A:249:SER:HB2	1.97	0.45
1:A:1244:GLU:CG	1:A:1245:GLY:N	2.74	0.45
1:A:1342:TYR:HB2	1:A:1457:THR:CA	2.46	0.45
1:A:1515:TYR:HD2	1:A:1521:TYR:O	1.93	0.45
1:A:1568:VAL:HG11	1:A:1622:PHE:CD1	2.51	0.45
1:A:1618:LEU:HD12	1:A:1646:ILE:HD11	1.98	0.45
2:D:1773:SER:HA	2:D:1789:ILE:HD13	1.98	0.45
2:D:1874:PHE:CD1	2:D:1878:HIS:ND1	2.84	0.45
2:D:2970:PHE:CZ	2:D:3072:GLU:HG3	2.50	0.45
2:B:2482:ILE:HG23	2:B:2482:ILE:O	2.17	0.45
1:C:487:PHE:CD1	1:C:488:PRO:HD3	2.51	0.45
2:B:3076:ASN:HB3	2:B:3236:LEU:HD13	1.97	0.45
2:B:2228:THR:CG2	2:B:2231:GLY:CA	2.94	0.45
1:A:1345:TRP:CE3	1:A:1400:PHE:CD2	3.04	0.45
1:C:1345:TRP:HH2	1:C:1426:ALA:CB	2.29	0.45
1:A:130:PHE:CG	1:A:131:LEU:N	2.84	0.45
2:D:2148:HIS:HB3	2:D:2348:VAL:HG21	1.98	0.45
1:C:250:TRP:CZ3	1:C:252:ASP:CB	2.98	0.45
2:B:1689:MET:HG3	2:B:1748:HIS:CE1	2.51	0.45
2:D:2516:VAL:HG23	2:D:2517:ASP:N	2.31	0.45
2:B:2811:PHE:HA	2:B:2865:HIS:O	2.16	0.45
2:B:2062:THR:CG2	2:B:2063:PRO:N	2.79	0.45
1:A:1475:PRO:HB2	1:A:1478:GLU:HB3	1.98	0.45
2:B:3087:LYS:N	2:B:3087:LYS:HD3	2.31	0.45
2:D:2267:VAL:CG2	2:D:2275:LEU:CB	2.94	0.45
2:D:2204:PHE:O	2:D:2285:PRO:HG2	2.17	0.45
2:D:2366:MET:CB	2:D:2371:ILE:CG2	2.94	0.45
2:B:2245:GLU:HB3	2:B:2375:ILE:HB	1.98	0.45
1:C:1490:LEU:O	1:C:1493:PHE:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:710:ILE:HG21	1:C:715:ILE:HA	1.97	0.45
1:A:452:VAL:CG1	1:A:1365:ARG:CD	2.94	0.45
1:A:436:VAL:CG2	1:A:526:LEU:HG	2.46	0.45
1:C:156:MET:HA	1:C:159:VAL:HG22	1.97	0.45
1:C:20:GLN:O	1:C:24:ARG:HG2	2.17	0.45
1:A:1646:ILE:CG2	2:B:1907:ASN:HB3	2.47	0.45
2:D:1862:ILE:HD11	2:D:1871:ASP:CB	2.47	0.45
1:A:1214:TYR:CD2	1:A:1226:LYS:CD	2.94	0.45
2:B:3318:VAL:CG2	2:B:3394:HIS:HB3	2.45	0.45
1:C:1153:LYS:CG	1:C:1182:GLU:OE2	2.65	0.45
1:A:487:PHE:CD1	1:A:488:PRO:HD3	2.51	0.45
1:C:1626:ILE:HD11	1:C:1638:SER:OG	2.16	0.45
1:C:238:GLN:NE2	1:C:820:VAL:CG1	2.77	0.45
1:A:878:GLU:CG	1:A:1034:ARG:HB2	2.37	0.45
2:D:3219:ILE:CG2	2:D:3261:LEU:CD1	2.94	0.45
2:D:3160:LEU:CD1	2:D:3162:ASN:HB2	2.46	0.45
2:B:1858:GLU:HA	2:B:1858:GLU:OE1	2.16	0.45
2:D:2647:TYR:CD1	2:D:2774:HIS:CE1	3.04	0.45
1:C:841:ASN:HB3	1:C:927:TYR:CZ	2.51	0.45
1:C:666:HIS:HB3	1:C:686:ALA:HB1	1.97	0.45
1:C:689:ASN:O	1:C:692:TYR:HD2	1.99	0.45
1:C:1067:TYR:CG	1:C:1068:ASN:N	2.84	0.45
2:B:2170:VAL:CB	2:B:2288:PHE:CE1	2.95	0.45
2:B:2279:HIS:CA	2:B:2423:LYS:HE2	2.46	0.45
2:B:2194:VAL:CG1	2:B:2195:TRP:N	2.79	0.45
2:B:2094:ARG:HD3	2:D:1924:LEU:O	2.17	0.45
1:A:882:CYS:N	1:A:893:CYS:SG	2.89	0.45
2:D:2697:PHE:CE2	2:D:2701:HIS:CE1	2.98	0.45
1:A:83:LYS:HE2	1:A:83:LYS:CA	2.44	0.45
1:A:560:ARG:HH22	1:A:626:ASP:CG	2.19	0.45
1:C:183:HIS:CE1	1:C:194:MET:HE3	2.52	0.45
1:C:163:LEU:CD1	1:C:294:LEU:HD11	2.20	0.45
1:A:1657:THR:CA	2:B:1898:SER:OG	2.63	0.45
2:D:3317:LYS:HG3	2:D:3317:LYS:O	2.16	0.45
2:D:3363:LEU:HB3	2:D:3364:GLY:H	1.58	0.45
2:D:3339:MET:HE1	2:D:3389:LEU:HD13	1.97	0.45
1:A:1568:VAL:HG13	1:A:1622:PHE:CD1	2.51	0.45
2:D:1757:TRP:CZ3	2:D:1759:TRP:CZ2	3.04	0.45
2:D:1766:LEU:CD2	2:D:1806:ILE:CD1	2.95	0.45
2:B:1757:TRP:CZ3	2:B:1759:TRP:CZ2	3.04	0.45
2:B:1757:TRP:NE1	2:B:1763:ARG:CD	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1757:TRP:CB	2:B:1876:ILE:HG22	2.47	0.45
2:B:1874:PHE:CD1	2:B:1878:HIS:ND1	2.84	0.45
2:D:1725:HIS:HA	2:D:1730:PHE:HD2	1.80	0.45
2:B:3308:ILE:HG12	2:B:3331:VAL:HG12	1.97	0.45
2:B:3349:PHE:CD1	2:B:3375:PHE:CG	3.05	0.45
2:B:3314:LEU:CD2	2:B:3391:ILE:CG1	2.94	0.45
1:A:905:HIS:CD2	1:A:1046:HIS:CD2	3.04	0.45
1:A:632:HIS:CE1	1:A:636:VAL:HG22	2.52	0.45
2:B:2678:GLY:O	2:B:2681:THR:HG22	2.17	0.45
2:B:3104:ILE:O	2:B:3107:ALA:HB3	2.16	0.45
1:C:302:ARG:CZ	1:C:304:PHE:CZ	2.95	0.45
1:C:300:ARG:CZ	1:C:302:ARG:HG2	2.46	0.45
1:C:1606:ASP:CG	1:C:1608:THR:HG23	2.36	0.45
1:A:302:ARG:NE	1:A:304:PHE:HZ	2.15	0.45
2:B:1705:HIS:CE1	2:B:1865:LEU:HD12	2.45	0.45
1:A:723:GLN:HG3	1:A:826:ARG:HE	1.81	0.45
2:B:1815:SER:HG	2:B:1820:HIS:CD2	2.34	0.45
2:D:3277:TYR:HB2	2:D:3282:LEU:HD23	1.97	0.45
1:A:1193:TYR:CD1	1:A:1194:ASP:N	2.84	0.45
1:C:171:PHE:CZ	1:C:175:PHE:HB2	2.50	0.45
1:A:174:GLN:HA	1:A:358:TYR:CE1	2.42	0.45
2:D:2764:PHE:O	2:D:2765:ASN:HB2	2.16	0.45
2:B:2605:PHE:CE2	2:B:2614:PHE:CZ	3.04	0.45
2:D:1686:LEU:HD12	2:D:1689:MET:HE2	1.98	0.45
2:B:1685:ALA:HB1	2:B:1748:HIS:HB2	1.98	0.45
1:A:232:LYS:HE2	1:A:232:LYS:N	2.30	0.45
2:D:3024:ILE:HG22	2:D:3026:SER:H	1.82	0.45
2:D:2885:THR:HG22	2:D:2886:VAL:N	2.32	0.45
2:B:2651:LEU:CD2	2:B:2785:LEU:CD2	2.95	0.45
2:D:2729:ILE:HG22	2:D:2733:LYS:HZ1	1.80	0.45
2:D:2560:THR:HB	2:D:2563:MET:CE	2.46	0.45
2:B:1892:GLN:NE2	2:B:1895:ARG:HD2	2.32	0.45
2:B:2718:ARG:HG3	2:B:2782:GLU:OE2	2.16	0.45
2:D:3087:LYS:N	2:D:3087:LYS:HD3	2.31	0.45
2:B:2272:VAL:O	2:B:2277:SER:HB2	2.17	0.45
2:D:1920:ALA:HA	2:D:1921:PRO:C	2.36	0.45
2:D:2569:TRP:CD1	2:D:2736:LEU:HB3	2.51	0.45
1:C:1278:LEU:HB3	1:C:1373:PRO:CG	2.42	0.45
1:C:498:VAL:HB	1:C:630:TYR:HE1	1.76	0.45
1:C:498:VAL:CB	1:C:630:TYR:CE1	2.99	0.45
1:A:148:LYS:HB2	1:A:150:GLY:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2697:PHE:CE2	2:B:2701:HIS:CE1	2.98	0.45
1:A:546:SER:HB3	1:A:558:THR:OG1	2.17	0.45
1:C:156:MET:CE	1:C:285:MET:CE	2.95	0.45
2:D:3349:PHE:CD1	2:D:3375:PHE:CG	3.05	0.45
1:C:1078:ARG:CB	2:D:2456:GLU:HA	2.47	0.45
2:B:2494:HIS:CD2	2:B:3125:LYS:CG	2.98	0.45
2:B:3176:ASN:HD22	2:B:3178:ASN:HB2	1.81	0.45
2:B:3183:ASN:HD21	2:B:3186:GLU:HB2	1.78	0.45
2:D:1757:TRP:CB	2:D:1876:ILE:CG2	2.95	0.45
2:B:1806:ILE:O	2:B:1806:ILE:HG22	2.15	0.45
1:C:1158:LYS:CA	1:C:1173:GLU:HG2	2.46	0.45
2:B:3353:VAL:HG22	2:B:3381:THR:CG2	2.42	0.45
2:D:2384:VAL:HG22	2:D:2437:ILE:HG21	1.98	0.45
2:B:2446:ILE:HG21	2:B:2452:PHE:HE1	1.80	0.45
2:D:3068:GLU:O	2:D:3071:TYR:HB3	2.17	0.45
2:D:3031:THR:HG21	2:D:3099:ASP:HA	1.97	0.45
2:B:1778:PRO:HG2	2:D:1817:LYS:HA	1.98	0.45
2:D:2975:ARG:NH1	2:D:3114:ILE:HD11	2.30	0.45
2:B:2513:THR:HG23	2:B:2514:ALA:N	2.31	0.45
1:A:1554:LEU:HD12	1:A:1602:LEU:HD22	1.97	0.45
1:A:37:LYS:HD3	1:A:37:LYS:C	2.36	0.45
1:A:1539:MET:HA	1:A:1539:MET:CE	2.45	0.45
1:C:914:ASN:O	1:C:917:ARG:HG2	2.16	0.45
2:D:1892:GLN:NE2	2:D:1895:ARG:HD2	2.32	0.45
1:C:1288:SER:HA	1:C:1291:LYS:HD2	1.99	0.45
1:A:1288:SER:HA	1:A:1291:LYS:HD2	1.99	0.45
2:B:2507:GLU:HG3	2:B:2592:TYR:OH	2.16	0.45
2:D:2143:MET:CE	2:D:2321:LEU:CD1	2.95	0.45
2:D:2279:HIS:CA	2:D:2423:LYS:HE2	2.46	0.45
2:B:2012:LYS:HA	2:B:2012:LYS:HE2	1.99	0.45
2:D:2194:VAL:CG1	2:D:2195:TRP:N	2.79	0.45
2:D:2012:LYS:HE2	2:D:2012:LYS:HA	1.99	0.45
2:B:2527:MET:HA	2:B:2535:TYR:CB	2.44	0.45
2:D:2538:ILE:O	2:D:2541:PHE:HD1	1.99	0.45
1:C:1082:GLN:HB3	1:C:1083:PRO:CA	2.41	0.45
1:C:1259:ARG:CG	1:C:1339:ALA:CB	2.95	0.45
1:C:1342:TYR:HB2	1:C:1457:THR:CA	2.46	0.45
1:C:544:PHE:HD1	1:C:631:PHE:CZ	2.33	0.45
1:A:5:ARG:HD2	1:A:277:TYR:CE1	2.52	0.45
1:A:544:PHE:HD1	1:A:631:PHE:CZ	2.33	0.45
1:A:710:ILE:HG21	1:A:715:ILE:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:148:LYS:HB2	1:C:150:GLY:O	2.16	0.45
1:C:5:ARG:HD2	1:C:277:TYR:CE1	2.52	0.45
2:D:3353:VAL:CG2	2:D:3381:THR:CG2	2.95	0.45
2:D:1757:TRP:HE1	2:D:1763:ARG:NE	2.13	0.45
2:D:1671:ILE:CD1	2:D:1770:LEU:CD1	2.95	0.45
2:B:1671:ILE:CD1	2:B:1770:LEU:CD1	2.95	0.45
2:B:1854:VAL:CG2	2:B:1862:ILE:CB	2.94	0.45
1:C:1214:TYR:CD2	1:C:1226:LYS:CD	2.94	0.45
2:D:1736:LEU:HD11	2:D:1937:THR:OG1	2.16	0.45
2:B:3387:ASN:HD22	2:B:3388:ASN:N	2.14	0.45
1:A:802:ILE:HD12	1:A:810:LEU:CD1	2.47	0.45
2:B:2622:LEU:CD1	2:B:2624:VAL:HG12	2.40	0.45
1:C:302:ARG:NE	1:C:304:PHE:HZ	2.15	0.45
1:A:304:PHE:C	1:A:362:LEU:HD13	2.37	0.45
1:A:369:MET:SD	1:A:371:MET:HE2	2.57	0.45
2:D:1865:LEU:HD22	2:D:2013:GLU:OE2	2.15	0.45
1:A:1070:ALA:CB	1:A:1077:MET:CE	2.95	0.45
1:A:720:HIS:O	1:A:723:GLN:HB3	2.15	0.45
2:B:2797:ALA:HB3	2:B:2842:LEU:HD13	1.98	0.45
2:D:3076:ASN:CB	2:D:3234:VAL:HG13	2.40	0.45
1:A:689:ASN:O	1:A:692:TYR:HD2	1.99	0.45
1:C:842:VAL:HG13	1:C:843:ASP:OD1	2.16	0.45
2:D:1689:MET:HE2	2:D:1698:PHE:HD1	1.79	0.45
2:D:2513:THR:HG23	2:D:2514:ALA:N	2.31	0.45
2:D:3029:GLN:HG2	2:D:3088:TYR:CD2	2.51	0.45
1:C:75:HIS:CD2	1:C:255:ILE:HG21	2.52	0.45
1:C:75:HIS:CD2	1:C:255:ILE:CG2	2.99	0.45
2:D:3073:ILE:HG13	2:D:3250:TYR:CE1	2.52	0.45
1:A:1552:GLY:O	1:A:1644:PRO:HB3	2.16	0.45
2:B:3256:GLU:HG3	2:B:3257:THR:N	2.32	0.45
1:C:428:ILE:HD13	1:C:514:TRP:CA	2.44	0.45
1:C:514:TRP:HZ2	1:C:520:MET:SD	2.39	0.45
1:C:565:ARG:NH1	1:C:567:PHE:HB3	2.32	0.45
1:C:560:ARG:HH22	1:C:626:ASP:CG	2.20	0.45
1:A:20:GLN:O	1:A:24:ARG:HG2	2.17	0.45
1:A:69:HIS:CD2	1:A:210:HIS:CD2	3.05	0.45
1:A:168:PHE:CE1	1:A:217:PHE:CE1	3.04	0.45
1:A:579:PHE:HE1	1:A:718:MET:HE1	1.78	0.45
1:C:263:THR:HG23	1:C:266:ASP:H	1.80	0.45
2:D:1854:VAL:CG2	2:D:1862:ILE:CB	2.94	0.45
2:B:1766:LEU:CD2	2:B:1806:ILE:CD1	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1170:PRO:O	1:A:1198:LYS:HD3	2.17	0.45
2:D:2851:LEU:N	2:D:2851:LEU:HD12	2.32	0.45
2:D:2946:HIS:CD2	2:D:2963:CYS:HG	2.35	0.45
1:A:895:VAL:CG1	1:A:904:TRP:CB	2.94	0.45
1:C:304:PHE:C	1:C:362:LEU:HD13	2.37	0.45
1:C:802:ILE:HD12	1:C:810:LEU:CD1	2.47	0.45
1:C:810:LEU:HD13	1:C:814:LEU:HD13	1.98	0.45
1:A:1345:TRP:HH2	1:A:1426:ALA:CB	2.29	0.45
1:C:389:THR:HG23	1:C:389:THR:O	2.17	0.45
1:A:48:CYS:HB2	1:A:57:CYS:HB2	1.71	0.45
1:C:33:ILE:CD1	1:C:33:ILE:H	2.29	0.45
2:D:1685:ALA:HB1	2:D:1748:HIS:HB2	1.99	0.45
1:C:1538:HIS:CE1	2:D:2498:SER:CB	3.00	0.45
1:C:286:THR:CG2	1:C:287:PRO:HD2	2.46	0.45
2:D:2062:THR:CG2	2:D:2063:PRO:N	2.79	0.45
2:D:2122:HIS:CB	2:D:2282:SER:HB3	2.47	0.45
2:B:2599:PHE:CD1	2:B:2599:PHE:N	2.84	0.45
1:C:1056:TRP:CH2	1:C:1060:GLN:HG3	2.52	0.45
1:C:531:THR:HG23	1:C:531:THR:O	2.17	0.45
1:C:1189:ARG:NE	2:D:2431:ARG:CG	2.75	0.45
2:D:2084:VAL:HG12	2:D:2085:ARG:N	2.32	0.45
2:B:2204:PHE:O	2:B:2285:PRO:HG2	2.17	0.45
2:B:1793:ILE:HG22	2:B:1796:GLU:HB3	1.99	0.45
2:D:2697:PHE:CE1	2:D:2701:HIS:NE2	2.72	0.45
1:C:694:TYR:CG	1:C:695:GLU:N	2.84	0.45
1:A:234:MET:HE2	1:A:241:LEU:CD2	2.47	0.45
2:B:1863:GLY:O	2:B:2050:TYR:CZ	2.70	0.45
1:A:1265:LEU:HB2	1:A:1270:LEU:CD2	2.46	0.45
1:A:468:CYS:SG	1:A:477:TYR:HE1	2.40	0.45
1:C:156:MET:HE1	1:C:285:MET:HE2	1.99	0.45
1:C:263:THR:O	1:C:263:THR:HG23	2.16	0.45
2:D:3353:VAL:CG1	2:D:3377:THR:CG2	2.95	0.45
1:A:1566:VAL:HG22	1:A:1626:ILE:CG2	2.45	0.45
2:B:3068:GLU:O	2:B:3071:TYR:HB3	2.17	0.45
2:B:1736:LEU:HD11	2:B:1937:THR:OG1	2.16	0.45
2:D:2910:LYS:HE3	2:D:2992:LEU:HD22	1.99	0.45
1:C:322:VAL:CG2	1:C:379:VAL:HG12	2.45	0.45
1:C:1549:VAL:HG13	1:C:1607:ILE:CD1	2.46	0.45
1:A:860:LEU:CD1	1:A:916:LEU:CD1	2.95	0.45
1:A:1192:LYS:HE3	1:A:1235:ILE:HD12	1.98	0.45
1:A:173:ILE:HG13	1:A:174:GLN:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1953:ALA:CB	2:D:1955:TRP:CZ3	2.95	0.45
1:A:841:ASN:HB3	1:A:927:TYR:CZ	2.51	0.45
1:C:222:ARG:O	1:C:225:GLU:HB2	2.17	0.45
1:A:75:HIS:CD2	1:A:255:ILE:CG2	2.99	0.45
1:C:534:ASP:C	1:C:536:HIS:H	2.20	0.45
1:A:51:LYS:HG3	1:A:52:ASP:N	2.32	0.45
2:B:2560:THR:HB	2:B:2563:MET:CE	2.46	0.45
2:B:2756:THR:HG23	2:B:2757:ASP:OD1	2.16	0.45
1:A:884:SER:O	1:A:887:ALA:HB3	2.17	0.45
2:D:2208:TYR:HB3	2:D:2215:TYR:HD1	1.76	0.45
2:B:2267:VAL:CG2	2:B:2275:LEU:CB	2.94	0.45
1:C:881:TRP:HZ3	1:C:885:PRO:HG3	1.81	0.45
1:C:1299:CYS:N	1:C:1308:CYS:SG	2.90	0.45
1:C:452:VAL:CG1	1:C:1365:ARG:CD	2.94	0.45
1:C:698:LEU:HD12	1:C:700:TYR:CG	2.52	0.45
1:A:76:MET:SD	1:A:207:PHE:HD1	2.40	0.45
1:A:156:MET:CE	1:A:285:MET:CE	2.95	0.45
2:B:2697:PHE:CE1	2:B:2701:HIS:NE2	2.72	0.45
1:A:1490:LEU:O	1:A:1493:PHE:HB2	2.16	0.45
2:B:3315:PRO:CB	2:B:3316:PRO:HD2	2.46	0.45
2:D:3269:LYS:HE3	2:D:3269:LYS:CA	2.46	0.45
1:C:1070:ALA:CB	1:C:1077:MET:CE	2.95	0.45
2:B:3269:LYS:HE3	2:B:3269:LYS:HA	1.99	0.45
2:B:3327:MET:HG3	2:B:3366:MET:H	1.82	0.45
1:C:1033:LEU:HB3	1:C:1179:ASP:CB	2.38	0.45
1:C:1176:LEU:HD11	1:C:1185:TRP:HZ2	1.82	0.45
2:B:1990:PHE:CE2	2:B:2002:ALA:HB1	2.51	0.45
2:D:2982:GLU:HB2	2:D:2994:ILE:HG12	1.99	0.45
2:B:2472:LEU:HD13	2:B:2473:PRO:O	2.16	0.45
2:D:2472:LEU:HD13	2:D:2473:PRO:O	2.16	0.45
1:A:782:THR:HG22	1:A:786:LYS:CE	2.24	0.45
1:C:1409:GLU:CD	1:C:1544:LYS:NZ	2.69	0.45
1:C:747:ILE:HG23	1:C:796:PHE:CD2	2.52	0.45
2:B:2500:ALA:CB	2:B:3131:SER:OG	2.64	0.45
2:D:2734:ARG:HA	2:D:2735:PRO:HD3	1.81	0.45
1:A:222:ARG:O	1:A:225:GLU:HB2	2.17	0.45
2:B:3024:ILE:HG22	2:B:3026:SER:H	1.82	0.45
2:B:3136:ILE:HD11	2:D:3345:TYR:CE2	2.52	0.45
1:C:771:TRP:HZ3	1:C:773:PHE:CD2	2.35	0.45
2:B:2662:PHE:CZ	2:B:2666:PHE:HB2	2.52	0.45
2:B:1784:ILE:CG2	2:B:1785:PRO:HD2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1556:HIS:CD2	1:C:1598:VAL:CG2	2.99	0.45
1:A:1556:HIS:CD2	1:A:1598:VAL:CG2	2.99	0.45
1:C:308:ARG:HH11	1:C:353:GLN:CD	2.20	0.45
2:B:3073:ILE:HG13	2:B:3250:TYR:CE1	2.52	0.45
2:B:3061:GLU:OE2	2:B:3251:ARG:HD3	2.17	0.45
2:D:2267:VAL:CG2	2:D:2275:LEU:CG	2.95	0.45
2:B:2267:VAL:CG2	2:B:2275:LEU:CG	2.95	0.45
2:B:1795:PHE:HE1	2:B:1870:TYR:HH	1.59	0.45
2:D:1707:LEU:CD2	2:D:1709:PRO:HG3	2.47	0.45
2:B:2094:ARG:HD2	2:D:1747:LYS:NZ	2.32	0.45
1:A:881:TRP:HZ3	1:A:885:PRO:HG3	1.81	0.45
1:C:1319:TRP:CB	1:C:1490:LEU:HD21	2.46	0.45
1:C:496:THR:CG2	1:C:698:LEU:CD2	2.95	0.45
1:A:1280:ILE:CD1	1:A:1330:ALA:CB	2.95	0.45
1:A:1361:TYR:HD2	1:A:1363:ASN:HB3	1.81	0.45
1:A:549:ILE:HB	1:A:552:GLU:CG	2.47	0.45
1:A:700:TYR:HE2	1:A:702:TYR:CE2	2.35	0.45
1:C:122:TYR:HD1	1:C:122:TYR:H	1.62	0.45
1:C:76:MET:SD	1:C:207:PHE:HD1	2.40	0.45
1:C:69:HIS:CD2	1:C:210:HIS:CD2	3.05	0.45
1:A:1662:THR:O	2:B:1893:ARG:NE	2.40	0.45
2:B:3177:LEU:CD2	2:B:3184:ILE:HG23	2.44	0.45
2:D:1757:TRP:CZ2	2:D:1767:PRO:HD3	2.52	0.45
1:A:1158:LYS:HG3	1:A:1173:GLU:HG2	1.99	0.45
2:B:3263:LEU:CD2	2:B:3269:LYS:HD2	2.44	0.45
2:D:3010:PHE:CZ	2:D:3101:TYR:CD1	3.05	0.45
2:D:2994:ILE:CG2	2:D:3104:ILE:HG22	2.47	0.45
2:B:2994:ILE:CG2	2:B:3104:ILE:HG22	2.47	0.45
1:C:1568:VAL:HG11	1:C:1622:PHE:CD1	2.51	0.45
2:D:2228:THR:CG2	2:D:2231:GLY:CA	2.94	0.45
2:B:2148:HIS:HB3	2:B:2348:VAL:HG21	1.98	0.45
2:B:1760:THR:CG2	2:B:1824:ILE:CG1	2.94	0.45
1:C:130:PHE:CG	1:C:131:LEU:N	2.84	0.45
2:D:3209:ILE:N	2:D:3209:ILE:HD13	2.19	0.45
1:A:964:ILE:HG21	1:A:967:VAL:HG22	1.98	0.45
2:D:1955:TRP:CB	2:D:1960:ILE:CD1	2.95	0.45
2:D:1858:GLU:OE1	2:D:1858:GLU:HA	2.16	0.45
1:C:1379:ILE:HD12	1:C:1447:PHE:CD2	2.52	0.45
2:D:2950:ASN:HB3	2:D:2960:TYR:N	2.30	0.45
1:C:1554:LEU:HD12	1:C:1602:LEU:HD22	1.97	0.45
2:B:3029:GLN:HG2	2:B:3088:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3297:ASN:HD22	2:D:3297:ASN:N	2.10	0.45
2:D:2662:PHE:CZ	2:D:2666:PHE:HB2	2.52	0.45
1:A:1529:ASN:HB3	1:A:1531:TYR:CE2	2.52	0.45
2:B:2406:THR:HG23	2:B:2407:SER:N	2.32	0.45
2:D:2406:THR:HG23	2:D:2407:SER:N	2.32	0.45
2:D:2756:THR:HG23	2:D:2757:ASP:N	2.30	0.45
2:B:2771:LEU:HD22	2:B:2771:LEU:N	2.32	0.45
2:B:2569:TRP:CD1	2:B:2736:LEU:HB3	2.51	0.44
2:D:2577:MET:CB	2:D:2698:TRP:NE1	2.79	0.44
1:C:469:PRO:HG3	1:C:477:TYR:CE2	2.50	0.44
1:A:1259:ARG:CG	1:A:1339:ALA:CB	2.95	0.44
1:A:514:TRP:HZ2	1:A:520:MET:SD	2.40	0.44
1:A:565:ARG:NH1	1:A:567:PHE:HB3	2.31	0.44
1:A:698:LEU:HD12	1:A:700:TYR:CG	2.52	0.44
1:C:853:LEU:CG	1:C:921:TYR:CE1	2.94	0.44
1:A:1618:LEU:HD22	1:A:1648:PHE:HB2	2.00	0.44
2:D:1757:TRP:CB	2:D:1876:ILE:HG22	2.47	0.44
2:B:1773:SER:HA	2:B:1789:ILE:HD13	1.98	0.44
2:B:3312:VAL:HG22	2:B:3314:LEU:CD2	2.48	0.44
2:B:3306:ILE:CG2	2:B:3329:MET:HG2	2.39	0.44
2:B:3353:VAL:CG1	2:B:3377:THR:CG2	2.95	0.44
2:B:2384:VAL:HG22	2:B:2437:ILE:HG21	1.98	0.44
2:B:2460:ILE:HG23	2:B:2461:LYS:N	2.32	0.44
2:D:3002:THR:CG2	2:D:3048:PHE:HE1	2.29	0.44
2:D:3176:ASN:HD22	2:D:3178:ASN:HB2	1.81	0.44
2:D:1990:PHE:CE2	2:D:2002:ALA:HB3	2.52	0.44
2:B:2982:GLU:HB2	2:B:2994:ILE:HG12	1.99	0.44
1:C:377:TYR:OH	1:C:401:VAL:HG11	2.16	0.44
1:C:688:PRO:O	1:C:691:ILE:HB	2.16	0.44
1:A:727:ARG:O	1:A:823:GLU:HB3	2.17	0.44
2:D:2602:LEU:HB3	2:D:2603:PRO:HD2	1.97	0.44
1:C:1487:HIS:CE1	2:D:2038:ASP:CG	2.90	0.44
1:A:50:HIS:CE1	1:A:250:TRP:HD1	2.35	0.44
2:D:2088:LEU:HD12	2:D:2088:LEU:C	2.38	0.44
1:C:12:THR:HG22	1:C:13:GLN:H	1.81	0.44
2:B:2516:VAL:HG23	2:B:2517:ASP:N	2.32	0.44
2:D:2822:PHE:CZ	2:D:2825:THR:HG22	2.52	0.44
2:B:2805:LYS:HE2	2:B:2870:ASP:HB2	1.98	0.44
1:C:101:LEU:HD23	1:C:137:ARG:NH2	2.30	0.44
2:B:2633:LYS:NZ	2:B:2633:LYS:HA	2.32	0.44
2:D:2797:ALA:HB3	2:D:2842:LEU:HD13	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2122:HIS:CB	2:B:2282:SER:HB3	2.47	0.44
1:A:933:PRO:HB2	1:A:981:GLU:HB3	1.98	0.44
2:D:2792:ASP:HB3	2:D:2889:SER:O	2.16	0.44
1:A:914:ASN:O	1:A:917:ARG:HG2	2.16	0.44
2:D:3221:SER:HB3	2:D:3226:ASP:OD1	2.16	0.44
2:B:3221:SER:HB3	2:B:3226:ASP:OD1	2.16	0.44
2:D:2354:LEU:CD1	2:D:2356:TYR:CE1	2.95	0.44
2:B:2140:ILE:CG1	2:B:2143:MET:CG	2.94	0.44
2:B:2273:TYR:N	2:B:2273:TYR:CD1	2.85	0.44
2:B:2308:ARG:HH21	2:B:2375:ILE:HD12	1.83	0.44
2:B:1695:SER:OG	2:D:2195:TRP:CB	2.58	0.44
1:C:1442:LEU:HD13	1:C:1442:LEU:O	2.18	0.44
2:D:1863:GLY:O	2:D:2050:TYR:CZ	2.70	0.44
1:C:546:SER:HB3	1:C:558:THR:OG1	2.17	0.44
1:C:638:ARG:CZ	1:C:638:ARG:HB3	2.47	0.44
1:A:1338:VAL:CG1	1:A:1339:ALA:N	2.81	0.44
1:A:452:VAL:HG11	1:A:1365:ARG:HD2	1.99	0.44
1:C:83:LYS:CA	1:C:83:LYS:HE2	2.44	0.44
2:B:2515:GLU:HA	2:B:2587:ARG:HD3	1.99	0.44
2:B:3002:THR:CG2	2:B:3048:PHE:HE1	2.30	0.44
2:D:1847:HIS:O	2:D:1850:VAL:HG22	2.16	0.44
1:C:1033:LEU:N	1:C:1177:LEU:HD11	2.32	0.44
1:A:1153:LYS:CG	1:A:1182:GLU:OE2	2.65	0.44
1:A:597:GLN:HA	1:A:777:PHE:CE1	2.51	0.44
2:B:2772:ARG:HB2	2:B:2772:ARG:NH1	2.32	0.44
1:C:322:VAL:CG2	1:C:377:TYR:CD1	3.00	0.44
1:C:1618:LEU:CD2	1:C:1648:PHE:CB	2.94	0.44
1:C:727:ARG:O	1:C:823:GLU:HB3	2.17	0.44
1:A:1394:LEU:CD2	1:A:1394:LEU:H	2.30	0.44
1:A:101:LEU:HD23	1:A:137:ARG:NH2	2.30	0.44
2:D:2651:LEU:CD2	2:D:2785:LEU:CD2	2.95	0.44
1:A:531:THR:HG23	1:A:531:THR:O	2.17	0.44
2:D:2118:ILE:HD11	2:D:2156:GLN:CG	2.48	0.44
2:B:2366:MET:CB	2:B:2371:ILE:CG2	2.94	0.44
2:B:1707:LEU:CD2	2:B:1709:PRO:HG3	2.47	0.44
2:B:1747:LYS:NZ	2:D:2094:ARG:CB	2.80	0.44
1:C:1319:TRP:CD1	1:C:1490:LEU:CD2	2.95	0.44
1:C:425:ARG:HD2	1:C:702:TYR:HE1	1.76	0.44
1:A:1249:GLN:CG	1:A:1476:TYR:CB	2.85	0.44
1:A:1299:CYS:N	1:A:1308:CYS:SG	2.90	0.44
1:C:5:ARG:NH1	1:C:89:LEU:CD1	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2478:HIS:CG	2:D:2479:ALA:N	2.85	0.44
1:A:1606:ASP:CG	1:A:1608:THR:HG23	2.37	0.44
2:D:1733:TRP:HD1	2:D:1913:LEU:HD23	1.82	0.44
2:B:3353:VAL:CG2	2:B:3381:THR:CG2	2.95	0.44
2:D:3177:LEU:HD22	2:D:3178:ASN:ND2	2.32	0.44
2:B:1735:ARG:HD2	2:B:1937:THR:HG22	1.99	0.44
1:A:667:LEU:HG	1:A:688:PRO:HG3	2.00	0.44
2:D:2714:LEU:HD11	2:D:2781:LEU:CD2	2.46	0.44
1:A:300:ARG:CZ	1:A:302:ARG:HG2	2.46	0.44
2:B:3076:ASN:CB	2:B:3236:LEU:CD1	2.95	0.44
2:B:2322:MET:HE2	2:B:2349:PHE:CE1	2.52	0.44
1:C:1345:TRP:CH2	1:C:1426:ALA:HB3	2.53	0.44
1:C:1484:GLN:HE22	2:D:2065:ILE:CB	2.25	0.44
2:D:3076:ASN:CB	2:D:3236:LEU:CD1	2.95	0.44
1:C:312:PHE:CD1	1:C:351:LYS:CD	2.99	0.44
1:C:1437:TYR:HD2	1:C:1444:TYR:CD1	2.35	0.44
2:B:3039:ILE:CG2	2:B:3040:PHE:H	2.19	0.44
1:C:1202:LEU:CD1	1:C:1204:LEU:CD1	2.95	0.44
1:C:51:LYS:HG3	1:C:52:ASP:N	2.32	0.44
2:D:1892:GLN:OE1	2:D:1897:LEU:HD22	2.17	0.44
2:D:2071:HIS:HB2	2:D:2072:HIS:H	1.44	0.44
2:B:2109:ASP:CG	2:B:2111:SER:HG	2.20	0.44
2:D:2482:ILE:HG23	2:D:2482:ILE:O	2.17	0.44
2:D:2258:VAL:CG2	2:D:2416:ILE:CG2	2.94	0.44
2:B:2084:VAL:HG12	2:B:2085:ARG:N	2.32	0.44
1:A:724:GLN:HE21	1:A:828:LYS:HG2	1.81	0.44
1:C:1087:SER:HB2	1:C:1097:LYS:CD	2.27	0.44
1:C:1265:LEU:CB	1:C:1270:LEU:HD21	2.46	0.44
1:C:547:SER:H	1:C:558:THR:HG21	1.83	0.44
1:C:700:TYR:HE2	1:C:702:TYR:CE2	2.35	0.44
1:C:1170:PRO:O	1:C:1198:LYS:HD3	2.17	0.44
1:C:1216:VAL:HG13	1:C:1226:LYS:HD2	1.99	0.44
2:B:3343:GLY:O	2:B:3344:SER:HB2	2.17	0.44
1:C:1151:PHE:O	1:C:1153:LYS:CD	2.66	0.44
1:C:895:VAL:CG1	1:C:904:TRP:HB3	2.47	0.44
1:C:905:HIS:CD2	1:C:1046:HIS:CD2	3.04	0.44
2:D:1973:VAL:O	2:D:1973:VAL:HG23	2.18	0.44
1:A:578:LEU:N	1:A:578:LEU:HD22	2.33	0.44
1:A:582:ILE:HD13	1:A:639:LEU:HD21	2.00	0.44
1:C:305:ALA:HB3	1:C:362:LEU:HD11	1.95	0.44
1:C:582:ILE:HD13	1:C:639:LEU:HD21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1567:PHE:CD1	1:C:1583:ALA:N	2.80	0.44
1:C:1618:LEU:HD11	2:D:1906:VAL:CG1	2.46	0.44
1:A:377:TYR:OH	1:A:401:VAL:HG11	2.17	0.44
1:C:1145:GLY:CA	1:C:1190:VAL:HG11	2.44	0.44
2:D:3378:ALA:CB	2:D:3383:LEU:HD12	2.36	0.44
2:B:1931:PHE:HE1	2:B:1942:LYS:CD	2.26	0.44
2:D:1666:MET:CE	2:D:1742:GLN:HE21	2.31	0.44
1:C:1498:ASN:HD21	1:C:1503:THR:HG21	1.80	0.44
1:C:1379:ILE:HD11	1:C:1381:HIS:NE2	2.33	0.44
1:A:842:VAL:HG13	1:A:843:ASP:OD1	2.16	0.44
2:D:1686:LEU:CD1	2:D:1689:MET:CE	2.95	0.44
2:B:2822:PHE:CZ	2:B:2825:THR:HG22	2.52	0.44
2:B:1683:VAL:HG23	2:B:1787:PRO:CG	2.48	0.44
1:A:771:TRP:HZ3	1:A:773:PHE:CD2	2.35	0.44
2:D:2882:LYS:HG3	2:D:2883:MET:N	2.33	0.44
2:D:2633:LYS:HA	2:D:2633:LYS:NZ	2.32	0.44
2:D:3058:ALA:HB1	2:D:3067:PHE:CE1	2.53	0.44
1:C:335:CYS:SG	1:C:336:GLU:N	2.91	0.44
2:B:3058:ALA:HB1	2:B:3067:PHE:CE1	2.52	0.44
2:D:2272:VAL:O	2:D:2277:SER:HB2	2.17	0.44
2:D:2423:LYS:HB2	2:D:2423:LYS:NZ	2.31	0.44
2:B:1709:PRO:HB2	2:B:1719:ARG:HB3	2.00	0.44
2:B:1914:LYS:CG	2:B:1918:PHE:CE1	2.95	0.44
1:C:468:CYS:SG	1:C:477:TYR:HE1	2.40	0.44
1:C:549:ILE:CG2	1:C:551:PHE:CE1	3.01	0.44
1:C:549:ILE:HB	1:C:552:GLU:CG	2.47	0.44
1:C:576:THR:CG2	1:C:579:PHE:CB	2.94	0.44
1:A:241:LEU:O	1:A:264:PRO:HD2	2.18	0.44
2:B:2566:PHE:HB3	2:B:2567:PRO:CD	2.48	0.44
1:A:442:ALA:CB	1:A:505:ARG:HB3	2.48	0.44
1:A:698:LEU:HG	1:A:700:TYR:CD1	2.53	0.44
1:C:94:TRP:CH2	1:C:185:LEU:HD22	2.51	0.44
1:A:1657:THR:HB	2:B:1898:SER:OG	2.17	0.44
2:B:1893:ARG:CG	2:B:1894:PHE:N	2.81	0.44
2:B:3122:ARG:HH12	2:B:3185:GLU:HA	1.82	0.44
2:B:3177:LEU:HD22	2:B:3178:ASN:ND2	2.32	0.44
1:A:409:PHE:CE2	2:B:3186:GLU:OE2	2.71	0.44
2:D:1769:LEU:HD23	2:D:1786:ASN:HD21	1.83	0.44
1:A:1195:ILE:HG12	1:A:1199:LEU:HG	2.00	0.44
1:C:1226:LYS:HE2	1:C:1226:LYS:CA	2.27	0.44
1:C:1151:PHE:HA	1:C:1153:LYS:HE3	1.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:900:VAL:CG1	1:C:1081:LEU:CD1	2.95	0.44
2:B:2976:LEU:HD23	2:B:2979:ILE:HD11	2.00	0.44
1:C:490:TRP:HA	1:C:667:LEU:CD1	2.48	0.44
1:C:597:GLN:HA	1:C:777:PHE:CE1	2.51	0.44
1:A:322:VAL:CG2	1:A:377:TYR:CD1	3.00	0.44
2:D:2678:GLY:O	2:D:2681:THR:HG22	2.17	0.44
1:A:1345:TRP:CH2	1:A:1426:ALA:HB3	2.53	0.44
1:C:999:LEU:HD13	1:C:1129:LEU:CD2	2.45	0.44
1:C:1023:GLY:HA2	1:C:1026:GLN:HE22	1.77	0.44
1:C:1588:ILE:HG23	1:C:1588:ILE:O	2.17	0.44
2:D:3219:ILE:HG21	2:D:3261:LEU:HD12	1.99	0.44
2:B:2647:TYR:CD1	2:B:2774:HIS:CE1	3.04	0.44
1:A:493:LEU:CD2	1:A:670:PHE:CE1	2.95	0.44
1:A:1422:ILE:CG1	1:A:1603:TYR:CE1	2.97	0.44
2:D:2132:HIS:HE2	2:D:2134:ASN:HB2	1.82	0.44
1:C:1059:LEU:CD1	1:C:1063:ARG:HH21	2.31	0.44
2:B:1969:GLU:OE2	2:B:2073:ASP:HB3	2.17	0.44
2:B:3195:ARG:NH1	2:B:3295:ARG:HE	2.13	0.44
1:C:1202:LEU:HD13	1:C:1204:LEU:CD1	2.48	0.44
2:B:2811:PHE:CD2	2:B:2823:ALA:CB	3.00	0.44
2:D:2547:MET:HB2	2:D:2558:CYS:SG	2.58	0.44
2:D:3256:GLU:HG3	2:D:3257:THR:N	2.32	0.44
2:B:2824:GLY:HA3	2:B:2845:TYR:CZ	2.53	0.44
1:A:735:ALA:O	1:A:737:ILE:HG13	2.18	0.44
2:B:2118:ILE:HD11	2:B:2156:GLN:CG	2.48	0.44
1:A:872:LEU:HA	1:A:875:PHE:HE1	1.82	0.44
1:A:1278:LEU:HD12	1:A:1279:GLU:CA	2.48	0.44
1:A:547:SER:H	1:A:558:THR:HG21	1.83	0.44
1:A:496:THR:CG2	1:A:698:LEU:CD2	2.95	0.44
1:C:244:LYS:HZ3	1:C:263:THR:HB	1.77	0.44
1:A:1656:HIS:C	2:B:1898:SER:CB	2.85	0.44
2:D:3343:GLY:O	2:D:3344:SER:HB2	2.17	0.44
2:B:2973:TRP:HE3	2:B:2974:HIS:HD2	1.66	0.44
2:B:1843:PHE:CE1	2:B:1884:ILE:CG1	2.95	0.44
1:A:1161:ILE:CG1	1:A:1195:ILE:HD11	2.44	0.44
1:C:1142:PHE:HZ	1:C:1234:VAL:CG2	2.31	0.44
2:B:3293:VAL:HG12	2:B:3305:GLU:HA	1.99	0.44
2:B:3343:GLY:C	2:B:3348:MET:HG2	2.38	0.44
1:A:1033:LEU:N	1:A:1177:LEU:HD11	2.33	0.44
2:D:2976:LEU:HD23	2:D:2979:ILE:HD11	2.00	0.44
1:C:588:GLN:NE2	1:C:597:GLN:HG3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2464:VAL:HG13	2:D:2472:LEU:H	1.83	0.44
2:B:1955:TRP:CB	2:B:1960:ILE:CD1	2.95	0.44
1:C:1561:SER:HB2	1:C:1588:ILE:O	2.18	0.44
1:A:1561:SER:HB2	1:A:1588:ILE:O	2.18	0.44
2:B:1666:MET:HE3	2:B:1944:GLY:O	2.18	0.44
2:D:1817:LYS:HG2	2:D:1820:HIS:CE1	2.53	0.44
1:A:12:THR:HG22	1:A:13:GLN:H	1.81	0.44
1:C:1128:GLN:HA	1:C:1131:LYS:CE	2.47	0.44
1:A:1202:LEU:CD1	1:A:1204:LEU:CD1	2.95	0.44
2:D:2811:PHE:CD2	2:D:2823:ALA:CB	3.00	0.44
1:C:98:ILE:O	1:C:98:ILE:HG23	2.17	0.44
2:D:1784:ILE:CG2	2:D:1785:PRO:HD2	2.47	0.44
1:A:1056:TRP:CH2	1:A:1060:GLN:HG3	2.52	0.44
2:D:2849:GLN:HG2	2:D:2853:GLN:HE21	1.82	0.44
1:A:1419:GLN:HB2	1:A:1419:GLN:HE21	1.58	0.44
2:D:2771:LEU:HD22	2:D:2771:LEU:N	2.32	0.44
2:B:2182:ILE:CG2	2:B:2187:THR:HG22	2.48	0.44
2:B:2423:LYS:NZ	2:B:2423:LYS:HB2	2.31	0.44
1:C:1361:TYR:HD2	1:C:1363:ASN:HB3	1.81	0.44
1:C:1372:ASN:HD22	1:C:1373:PRO:HD2	1.82	0.44
1:C:511:ILE:HG22	1:C:512:PRO:O	2.18	0.44
1:A:1265:LEU:CB	1:A:1270:LEU:CD2	2.95	0.44
1:A:1363:ASN:HB3	1:A:1365:ARG:CZ	2.48	0.44
1:A:428:ILE:N	1:A:428:ILE:HD12	2.32	0.44
1:A:511:ILE:HG22	1:A:512:PRO:O	2.18	0.44
1:C:244:LYS:HD2	1:C:262:SER:OG	2.18	0.44
1:C:67:HIS:CA	1:C:267:LEU:HG	2.48	0.44
1:A:1216:VAL:O	1:A:1224:LEU:HD23	2.18	0.44
1:C:1214:TYR:HE2	1:C:1226:LYS:HD3	1.73	0.44
2:B:1990:PHE:CE2	2:B:2002:ALA:HB3	2.52	0.44
2:D:2939:TYR:HE1	2:D:2981:PHE:CE1	2.36	0.44
2:B:2776:MET:CE	2:B:2781:LEU:HD13	2.48	0.44
2:B:2619:ILE:HG12	2:B:2693:TYR:CG	2.53	0.44
2:B:2910:LYS:HE3	2:B:2992:LEU:HD22	1.99	0.44
1:A:1409:GLU:CD	1:A:1544:LYS:NZ	2.69	0.44
1:A:650:ARG:HH11	1:A:650:ARG:HD3	1.69	0.44
1:A:1015:HIS:CE1	1:A:1045:HIS:CD2	3.05	0.44
2:B:1817:LYS:HG2	2:B:1820:HIS:CE1	2.53	0.44
1:C:1015:HIS:CE1	1:C:1045:HIS:CD2	3.05	0.44
1:C:1137:LYS:HG3	1:C:1138:SER:N	2.33	0.44
1:A:967:VAL:HG23	1:A:967:VAL:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1143:PHE:HE2	1:A:1194:ASP:HB2	1.83	0.44
2:B:3083:GLY:HA2	2:B:3089:SER:HB2	1.99	0.44
2:D:1745:LEU:HD12	2:D:1754:LEU:HD22	1.95	0.44
1:A:493:LEU:HD13	1:A:670:PHE:CG	2.53	0.44
2:B:2478:HIS:CG	2:B:2479:ALA:N	2.85	0.44
1:C:1436:LYS:CD	1:C:1437:TYR:CE1	2.95	0.44
2:B:3143:PRO:HA	2:B:3146:TYR:HD2	1.83	0.44
1:A:1219:LEU:HD11	1:A:1220:LYS:HG3	1.96	0.44
2:D:1683:VAL:HG23	2:D:1787:PRO:CG	2.48	0.44
2:D:1776:HIS:HB3	2:D:1783:ASP:OD1	2.18	0.44
1:C:1529:ASN:HB3	1:C:1531:TYR:CE2	2.52	0.44
2:D:2477:LEU:H	2:D:2477:LEU:CD2	2.31	0.44
1:C:1475:PRO:HB2	1:C:1478:GLU:HB3	1.98	0.44
1:C:735:ALA:O	1:C:737:ILE:HG13	2.18	0.44
2:D:3061:GLU:OE2	2:D:3251:ARG:HD3	2.17	0.44
1:C:884:SER:O	1:C:887:ALA:HB3	2.17	0.44
2:B:2849:GLN:HG2	2:B:2853:GLN:HE21	1.82	0.44
2:D:2824:GLY:HA3	2:D:2845:TYR:CZ	2.53	0.44
2:B:2072:HIS:H	2:B:2072:HIS:CD2	2.35	0.44
2:D:2221:GLN:H	2:D:2266:LEU:HD11	1.83	0.44
2:D:2155:LEU:HD11	2:D:2354:LEU:HB3	2.00	0.44
2:B:2143:MET:CE	2:B:2321:LEU:CD1	2.95	0.44
2:D:1701:ILE:HG22	2:D:1741:PHE:CZ	2.53	0.44
2:D:1793:ILE:HG22	2:D:1796:GLU:HB3	1.99	0.44
1:C:452:VAL:HG11	1:C:1365:ARG:HD2	1.99	0.44
1:A:89:LEU:CG	1:A:211:SER:OG	2.64	0.44
1:A:1242:HIS:CG	1:A:1476:TYR:HH	2.35	0.44
1:A:1280:ILE:HG23	1:A:1281:GLU:N	2.33	0.44
1:A:638:ARG:HB3	1:A:638:ARG:CZ	2.47	0.44
1:A:694:TYR:CZ	1:A:695:GLU:CG	3.01	0.44
2:D:3269:LYS:HE3	2:D:3269:LYS:HA	1.99	0.44
2:D:3293:VAL:HG12	2:D:3305:GLU:HA	1.99	0.44
1:C:853:LEU:CD2	1:C:921:TYR:CD2	3.01	0.44
1:C:860:LEU:CD1	1:C:916:LEU:CD1	2.95	0.44
2:B:2963:CYS:SG	2:B:2965:HIS:CD2	3.11	0.44
2:B:1733:TRP:HD1	2:B:1913:LEU:HD23	1.82	0.44
1:A:895:VAL:CG1	1:A:904:TRP:HB3	2.47	0.44
1:A:486:ILE:CG1	1:A:667:LEU:HD21	2.47	0.44
1:A:490:TRP:HA	1:A:667:LEU:CD1	2.48	0.44
1:C:688:PRO:CA	1:C:691:ILE:HG12	2.35	0.44
1:C:600:ILE:CG2	1:C:777:PHE:CE1	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:VAL:CA	1:A:379:VAL:HG12	2.47	0.44
2:D:2680:LEU:HA	2:D:2871:THR:HG22	2.00	0.44
1:A:796:PHE:CD1	1:A:796:PHE:N	2.85	0.44
2:B:2568:HIS:CA	2:B:2758:VAL:HG11	2.42	0.44
1:A:1143:PHE:HD2	1:A:1193:TYR:O	2.01	0.44
1:A:1128:GLN:HA	1:A:1131:LYS:CE	2.47	0.44
1:C:286:THR:CG2	1:C:287:PRO:N	2.81	0.44
2:B:2882:LYS:HG3	2:B:2883:MET:N	2.33	0.44
2:D:2175:TRP:HD1	2:D:2236:LEU:CG	2.27	0.44
2:B:2221:GLN:H	2:B:2266:LEU:HD11	1.83	0.44
1:C:1265:LEU:CB	1:C:1270:LEU:CD2	2.95	0.44
1:C:1280:ILE:HG23	1:C:1281:GLU:N	2.33	0.44
1:C:1280:ILE:CD1	1:C:1330:ALA:CB	2.95	0.44
1:C:1442:LEU:CD2	1:C:1589:LEU:CD1	2.95	0.44
1:C:509:ILE:HG22	1:C:510:GLY:H	1.73	0.44
1:A:97:PRO:HB2	1:A:146:LYS:HD2	2.00	0.44
1:A:1442:LEU:CD2	1:A:1589:LEU:CD1	2.96	0.44
1:C:148:LYS:CG	1:C:150:GLY:O	2.66	0.44
1:C:239:GLU:OE1	1:C:240:LEU:HD23	2.18	0.44
1:C:160:LEU:CD2	1:C:293:TYR:CE2	3.00	0.44
1:C:65:PHE:HZ	1:C:179:HIS:CD2	2.36	0.44
1:A:1657:THR:HG22	2:B:1898:SER:HG	1.83	0.44
1:C:853:LEU:CG	1:C:921:TYR:CZ	2.96	0.44
2:B:3054:LEU:H	2:B:3054:LEU:HD22	1.82	0.44
2:B:3300:VAL:HB	2:B:3301:PHE:H	1.51	0.44
2:D:1770:LEU:HD12	2:D:1770:LEU:H	1.79	0.44
2:D:1770:LEU:HD22	2:D:1873:LEU:HD12	1.99	0.44
2:B:1757:TRP:CZ2	2:B:1767:PRO:HD3	2.52	0.44
2:B:1862:ILE:HD11	2:B:1871:ASP:CB	2.47	0.44
1:A:1159:PHE:CD2	1:A:1171:ALA:CB	3.01	0.44
2:B:3219:ILE:HG21	2:B:3261:LEU:HD12	1.99	0.44
2:D:2460:ILE:HG23	2:D:2461:LYS:N	2.32	0.44
2:B:2446:ILE:HD13	2:B:2450:ASP:OD2	2.18	0.44
2:D:3059:LEU:CD1	2:D:3187:LEU:HD21	2.47	0.44
2:D:3071:TYR:CZ	2:D:3109:LEU:CD2	2.96	0.44
1:A:1151:PHE:O	1:A:1153:LYS:CD	2.65	0.44
1:A:1176:LEU:HD11	1:A:1185:TRP:HZ2	1.82	0.44
1:C:486:ILE:CG1	1:C:667:LEU:HD21	2.47	0.44
1:C:723:GLN:HG3	1:C:826:ARG:NH2	2.30	0.44
1:A:853:LEU:CD2	1:A:921:TYR:CD2	3.01	0.44
1:A:411:ASP:HB3	1:A:655:ARG:CA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2322:MET:CE	2:D:2346:ASN:HA	2.48	0.44
2:B:2497:SER:CB	2:B:3322:ARG:NH2	2.72	0.44
1:C:878:GLU:CG	1:C:1034:ARG:HB2	2.37	0.44
2:D:1668:ARG:NH2	2:D:1945:TYR:CE1	2.86	0.44
2:D:2127:LYS:CE	2:D:2333:ILE:CD1	2.95	0.44
2:D:2605:PHE:CE2	2:D:2614:PHE:CG	3.06	0.44
1:A:1059:LEU:CD1	1:A:1063:ARG:HH21	2.31	0.44
1:C:1621:ASP:N	1:C:1621:ASP:OD1	2.51	0.44
1:A:98:ILE:HG23	1:A:98:ILE:O	2.17	0.44
1:A:75:HIS:CD2	1:A:255:ILE:HG21	2.52	0.44
1:A:1545:ARG:HH11	1:A:1545:ARG:HB2	1.83	0.44
2:D:2060:ILE:HA	2:D:2061:PRO:HD2	1.76	0.44
1:A:308:ARG:HH11	1:A:353:GLN:CD	2.20	0.44
2:D:2955:LYS:HE3	2:D:2955:LYS:O	2.18	0.44
2:D:2182:ILE:CG2	2:D:2187:THR:HG22	2.48	0.43
2:D:2256:PHE:HA	2:D:2259:MET:HE3	2.00	0.43
2:B:1860:TYR:CD1	2:B:1860:TYR:N	2.86	0.43
1:C:1278:LEU:HD12	1:C:1279:GLU:CA	2.48	0.43
1:C:1338:VAL:CG1	1:C:1339:ALA:N	2.81	0.43
1:A:183:HIS:ND1	1:A:194:MET:CE	2.81	0.43
1:A:239:GLU:OE1	1:A:240:LEU:HD23	2.18	0.43
1:A:1372:ASN:HD22	1:A:1373:PRO:HD2	1.82	0.43
1:C:1112:PHE:CB	1:C:1114:TYR:CE2	3.01	0.43
1:C:1158:LYS:HG3	1:C:1173:GLU:HG2	1.99	0.43
2:B:3310:LYS:HE3	2:B:3386:ASP:OD2	2.18	0.43
2:D:2772:ARG:NH1	2:D:2772:ARG:HB2	2.33	0.43
2:B:3010:PHE:CZ	2:B:3101:TYR:CD1	3.05	0.43
2:B:2464:VAL:HG13	2:B:2472:LEU:H	1.83	0.43
2:B:3214:VAL:CG1	2:B:3215:VAL:N	2.81	0.43
1:A:1112:PHE:CB	1:A:1114:TYR:CE2	3.01	0.43
1:C:796:PHE:CD1	1:C:796:PHE:N	2.85	0.43
1:C:1395:PHE:CZ	1:C:1430:LEU:HG	2.53	0.43
1:A:1009:ILE:HD11	1:A:1191:PHE:HB2	2.00	0.43
2:B:2752:ASN:ND2	2:B:2764:PHE:CE2	2.86	0.43
1:A:389:THR:O	1:A:389:THR:HG23	2.17	0.43
1:A:1141:ARG:CG	1:A:1143:PHE:CE1	2.94	0.43
1:A:1437:TYR:HD2	1:A:1444:TYR:CD1	2.35	0.43
2:D:2950:ASN:HB2	2:D:2960:TYR:H	1.81	0.43
1:A:1067:TYR:CD2	1:A:1068:ASN:N	2.86	0.43
1:C:1101:VAL:CG2	1:C:1104:ASN:CB	2.96	0.43
2:B:1987:THR:CG2	2:B:2048:THR:CG2	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:ASP:C	1:A:536:HIS:H	2.20	0.43
2:B:2547:MET:HB2	2:B:2558:CYS:SG	2.58	0.43
2:B:2477:LEU:H	2:B:2477:LEU:CD2	2.31	0.43
2:B:1892:GLN:OE1	2:B:1897:LEU:HD22	2.17	0.43
2:D:2186:PHE:CE1	2:D:2289:ILE:CG1	2.97	0.43
2:D:2273:TYR:CD1	2:D:2273:TYR:N	2.85	0.43
2:D:2143:MET:HE1	2:D:2321:LEU:HD11	2.00	0.43
2:B:2195:TRP:CG	2:D:1695:SER:OG	2.58	0.43
2:D:1924:LEU:CD2	2:D:1924:LEU:H	2.31	0.43
2:D:2542:HIS:CD2	2:D:2559:CYS:SG	3.12	0.43
1:C:513:TYR:HB2	1:C:635:ASN:HA	2.01	0.43
1:C:646:LEU:C	1:C:646:LEU:HD23	2.37	0.43
1:C:694:TYR:CZ	1:C:695:GLU:CG	3.01	0.43
1:C:697:VAL:HG23	1:C:698:LEU:H	1.83	0.43
1:A:21:ALA:C	1:A:24:ARG:HG2	2.39	0.43
1:C:160:LEU:HD21	1:C:293:TYR:CD2	2.53	0.43
1:C:183:HIS:ND1	1:C:194:MET:CE	2.81	0.43
1:C:197:LEU:O	1:C:200:THR:HG22	2.18	0.43
1:C:264:PRO:O	1:C:267:LEU:HB3	2.18	0.43
1:C:156:MET:HE3	1:C:285:MET:CE	2.48	0.43
2:D:3327:MET:HG3	2:D:3366:MET:H	1.82	0.43
2:D:1671:ILE:HD13	2:D:1770:LEU:CD1	2.48	0.43
2:B:1766:LEU:HB3	2:B:1767:PRO:CD	2.39	0.43
1:C:1159:PHE:CD2	1:C:1171:ALA:CB	3.01	0.43
1:C:1233:SER:HA	2:D:2320:SER:HG	1.81	0.43
2:B:3346:THR:O	2:B:3350:LYS:HD2	2.18	0.43
2:D:2446:ILE:HD13	2:D:2450:ASP:OD2	2.18	0.43
2:D:2963:CYS:SG	2:D:2965:HIS:CD2	3.11	0.43
2:D:3054:LEU:HD22	2:D:3054:LEU:H	1.83	0.43
2:B:1913:LEU:HD13	2:B:1934:PRO:CD	2.49	0.43
1:C:578:LEU:N	1:C:578:LEU:HD22	2.33	0.43
1:C:810:LEU:HD11	1:C:814:LEU:CD1	2.49	0.43
2:B:2851:LEU:N	2:B:2851:LEU:HD12	2.32	0.43
1:C:782:THR:HG22	1:C:786:LYS:CE	2.24	0.43
2:D:2636:ASN:ND2	2:D:2646:PHE:CZ	2.86	0.43
1:C:1009:ILE:HD11	1:C:1191:PHE:HB2	2.00	0.43
1:C:1560:THR:CG2	1:C:1561:SER:N	2.81	0.43
1:A:749:THR:HG22	1:A:753:VAL:O	2.18	0.43
2:D:2550:MET:HG3	2:D:2556:TYR:CD2	2.53	0.43
1:A:1189:ARG:CZ	2:B:2431:ARG:HA	2.47	0.43
2:D:2483:ILE:HG22	2:D:2484:TYR:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1067:TYR:CD2	1:C:1068:ASN:N	2.86	0.43
2:D:1674:LEU:HD11	2:D:1755:PRO:HB3	1.99	0.43
1:C:804:GLU:HB3	1:C:808:THR:HG22	2.00	0.43
1:A:396:LEU:CD1	1:A:396:LEU:N	2.81	0.43
2:D:3170:PHE:O	2:D:3171:ASN:HB2	2.18	0.43
1:C:14:GLU:HG3	1:C:15:GLU:N	2.33	0.43
2:D:2284:ASP:HA	2:D:2285:PRO:HD2	1.86	0.43
2:D:2336:ASN:ND2	2:D:2338:PHE:CE2	2.86	0.43
2:B:2143:MET:CE	2:B:2321:LEU:HD11	2.48	0.43
2:B:1704:PHE:HE2	2:B:1915:PRO:HB2	1.84	0.43
2:B:1924:LEU:CD2	2:B:1924:LEU:H	2.31	0.43
2:D:1709:PRO:HB2	2:D:1719:ARG:HB3	2.00	0.43
1:C:1265:LEU:HB2	1:C:1270:LEU:CD2	2.46	0.43
1:C:698:LEU:HG	1:C:700:TYR:CD1	2.53	0.43
1:A:5:ARG:CZ	1:A:89:LEU:HD22	2.40	0.43
1:A:1325:VAL:HG21	1:A:1519:PHE:CD1	2.53	0.43
1:A:560:ARG:NE	1:A:609:THR:CB	2.76	0.43
1:A:646:LEU:C	1:A:646:LEU:HD23	2.37	0.43
1:C:97:PRO:HB3	1:C:146:LYS:N	2.33	0.43
2:D:3312:VAL:HG22	2:D:3314:LEU:CD2	2.48	0.43
2:D:3305:GLU:HG3	2:D:3319:VAL:CG1	2.47	0.43
2:B:3059:LEU:CD1	2:B:3187:LEU:HD21	2.47	0.43
2:D:1850:VAL:HG21	2:D:1877:HIS:NE2	2.34	0.43
2:D:1770:LEU:HD22	2:D:1873:LEU:CD1	2.48	0.43
1:C:1216:VAL:O	1:C:1216:VAL:HG23	2.19	0.43
2:D:1893:ARG:CG	2:D:1894:PHE:N	2.81	0.43
2:B:3325:LYS:HD3	2:B:3367:TYR:HB3	2.00	0.43
1:A:516:TRP:CZ2	1:A:566:LEU:CG	2.95	0.43
1:C:802:ILE:O	1:C:810:LEU:HB3	2.18	0.43
1:A:238:GLN:NE2	1:A:820:VAL:CG1	2.77	0.43
2:B:2636:ASN:ND2	2:B:2646:PHE:CZ	2.86	0.43
2:D:1798:GLU:HG3	2:D:1800:VAL:CB	2.47	0.43
2:B:1798:GLU:HG3	2:B:1800:VAL:CB	2.47	0.43
2:B:2502:HIS:HB3	2:B:2766:PHE:HA	1.98	0.43
1:C:162:ALA:CB	1:C:174:GLN:HB2	2.48	0.43
2:D:1815:SER:HG	2:D:1820:HIS:CD2	2.37	0.43
2:B:2550:MET:HG3	2:B:2556:TYR:CD2	2.53	0.43
2:B:1684:LYS:HG2	2:D:2162:ARG:NH2	2.32	0.43
1:C:1542:GLU:CA	1:C:1545:ARG:HD3	2.47	0.43
2:D:2515:GLU:HA	2:D:2587:ARG:HD3	1.99	0.43
2:D:2155:LEU:CD1	2:D:2354:LEU:HD13	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2273:TYR:HA	2:B:2280:TYR:CD2	2.54	0.43
2:D:1707:LEU:HD23	2:D:1709:PRO:HD3	0.51	0.43
1:C:1244:GLU:CG	1:C:1245:GLY:N	2.74	0.43
1:C:1308:CYS:HB3	1:C:1492:PRO:HD3	2.01	0.43
1:C:442:ALA:CB	1:C:505:ARG:HB3	2.48	0.43
1:C:464:LEU:HD12	1:C:551:PHE:CE1	2.51	0.43
1:A:264:PRO:O	1:A:267:LEU:HB3	2.18	0.43
1:A:1464:ILE:HD13	1:A:1526:LEU:CB	2.47	0.43
1:A:694:TYR:CE2	1:A:695:GLU:HG2	2.53	0.43
1:C:104:LEU:CB	1:C:123:TRP:CE3	3.01	0.43
2:D:3350:LYS:O	2:D:3351:CYS:HB2	2.19	0.43
2:D:3375:PHE:CD2	2:D:3376:MET:N	2.86	0.43
2:D:3310:LYS:HE3	2:D:3386:ASP:OD2	2.19	0.43
1:C:1108:TYR:CG	1:C:1109:LYS:N	2.86	0.43
2:B:3059:LEU:HA	2:B:3116:TRP:CD1	2.53	0.43
2:B:1757:TRP:HZ2	2:B:1763:ARG:NH1	2.17	0.43
2:B:1766:LEU:CD2	2:B:1806:ILE:HD12	2.48	0.43
1:C:1216:VAL:O	1:C:1224:LEU:HD23	2.18	0.43
2:D:1913:LEU:HD13	2:D:1934:PRO:CD	2.49	0.43
1:C:895:VAL:HA	1:C:898:MET:HE1	2.00	0.43
2:D:3059:LEU:HA	2:D:3116:TRP:CD1	2.53	0.43
1:A:732:PHE:HE2	1:A:745:ILE:HD12	1.83	0.43
2:B:2092:SER:O	2:B:2096:ILE:HG22	2.19	0.43
2:B:2680:LEU:HA	2:B:2871:THR:HG22	2.00	0.43
1:C:632:HIS:CE1	1:C:636:VAL:HG22	2.52	0.43
1:A:921:TYR:HD2	1:A:923:GLY:O	2.01	0.43
1:A:411:ASP:H	1:A:653:PRO:HB3	1.83	0.43
1:C:411:ASP:HB3	1:C:655:ARG:CA	2.47	0.43
1:A:317:ASN:ND2	1:A:342:PHE:CE2	2.86	0.43
1:A:318:VAL:HG22	1:A:319:PHE:N	2.34	0.43
1:C:967:VAL:O	1:C:967:VAL:HG23	2.17	0.43
2:D:3032:VAL:HG23	2:D:3086:GLU:HG3	2.00	0.43
1:A:1379:ILE:HD12	1:A:1447:PHE:CD2	2.52	0.43
2:B:2127:LYS:CD	2:B:2333:ILE:CD1	2.95	0.43
2:B:1978:LEU:HD23	2:B:1979:LEU:N	2.33	0.43
1:A:1101:VAL:CG2	1:A:1104:ASN:CB	2.96	0.43
2:D:1978:LEU:HD23	2:D:1979:LEU:N	2.33	0.43
2:B:1674:LEU:HD11	2:B:1755:PRO:HB3	1.99	0.43
1:A:804:GLU:HB3	1:A:808:THR:HG22	2.00	0.43
1:A:933:PRO:CB	1:A:981:GLU:HB3	2.49	0.43
1:A:1056:TRP:CZ2	1:A:1060:GLN:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2100:LYS:C	2:D:2100:LYS:HD3	2.39	0.43
2:D:2301:TRP:CZ2	2:D:2305:GLN:NE2	2.87	0.43
2:B:1701:ILE:HG22	2:B:1741:PHE:CZ	2.53	0.43
1:A:1087:SER:HB2	1:A:1097:LYS:CD	2.27	0.43
2:B:2538:ILE:HA	2:B:2541:PHE:CD1	2.53	0.43
1:C:443:PHE:HD2	1:C:505:ARG:HH12	1.66	0.43
1:C:634:SER:O	1:C:638:ARG:HG3	2.18	0.43
1:A:634:SER:O	1:A:638:ARG:HG3	2.18	0.43
2:D:3343:GLY:C	2:D:3348:MET:HG2	2.38	0.43
1:A:1570:LEU:N	1:A:1570:LEU:HD12	2.34	0.43
2:B:2999:TRP:HE3	2:B:3051:ILE:HG21	1.77	0.43
1:A:409:PHE:CE2	2:B:3186:GLU:OE1	2.70	0.43
2:D:1757:TRP:N	2:D:1876:ILE:HG22	2.33	0.43
2:B:1769:LEU:HD23	2:B:1786:ASN:HD21	1.83	0.43
1:A:1160:ASN:ND2	1:A:1168:CYS:HB3	2.17	0.43
1:C:1195:ILE:HG12	1:C:1199:LEU:HG	2.00	0.43
1:A:629:PHE:CG	1:A:633:HIS:CE1	3.07	0.43
1:A:1033:LEU:HB3	1:A:1179:ASP:CB	2.38	0.43
1:A:810:LEU:HD11	1:A:814:LEU:CD1	2.49	0.43
2:D:2927:LEU:O	2:D:2931:GLN:HG3	2.18	0.43
1:A:589:GLU:O	1:A:652:LYS:HE3	2.19	0.43
1:A:1395:PHE:CZ	1:A:1430:LEU:HG	2.53	0.43
1:C:1394:LEU:H	1:C:1394:LEU:CD2	2.30	0.43
2:D:2752:ASN:ND2	2:D:2764:PHE:CE2	2.86	0.43
2:B:1686:LEU:CD1	2:B:1689:MET:CE	2.95	0.43
1:A:1554:LEU:CD1	1:A:1602:LEU:CD2	2.97	0.43
1:C:458:THR:HA	1:C:461:TYR:HE1	1.76	0.43
1:A:286:THR:CG2	1:A:287:PRO:N	2.81	0.43
1:C:396:LEU:N	1:C:396:LEU:CD1	2.81	0.43
1:C:1056:TRP:CZ2	1:C:1060:GLN:HG3	2.53	0.43
2:B:2342:HIS:NE2	2:B:2353:LEU:HB3	2.34	0.43
1:A:335:CYS:SG	1:A:336:GLU:N	2.91	0.43
2:B:1822:TRP:CZ2	2:B:1826:GLN:NE2	2.87	0.43
2:D:3242:MET:HG2	2:D:3242:MET:O	2.19	0.43
2:B:2955:LYS:O	2:B:2955:LYS:HE3	2.18	0.43
2:D:2329:PHE:HD1	2:D:2339:THR:HG1	1.66	0.43
2:B:2155:LEU:HG	2:B:2354:LEU:CD1	2.48	0.43
2:B:2221:GLN:HG2	2:B:2266:LEU:HD12	1.96	0.43
2:B:2155:LEU:HD11	2:B:2354:LEU:HB3	2.00	0.43
2:B:2155:LEU:CD1	2:B:2354:LEU:HD13	2.47	0.43
1:C:1514:GLU:O	1:C:1514:GLU:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1590:GLY:HA3	1:C:1594:GLU:OE2	2.18	0.43
1:C:428:ILE:N	1:C:428:ILE:HD12	2.32	0.43
1:A:148:LYS:CG	1:A:150:GLY:O	2.66	0.43
1:A:160:LEU:HD21	1:A:293:TYR:CD2	2.53	0.43
1:A:1514:GLU:O	1:A:1514:GLU:HG3	2.19	0.43
1:A:1590:GLY:HA3	1:A:1594:GLU:OE2	2.18	0.43
2:B:2494:HIS:HB3	2:B:3124:VAL:CG2	2.49	0.43
2:D:1766:LEU:HD21	2:D:1806:ILE:CD1	2.49	0.43
2:D:1766:LEU:CD2	2:D:1806:ILE:HD12	2.48	0.43
1:A:1216:VAL:HG13	1:A:1226:LYS:HD2	1.99	0.43
2:B:3287:LEU:HB2	2:B:3289:ALA:N	2.34	0.43
2:D:2437:ILE:HD13	2:D:2441:LEU:HD11	2.01	0.43
2:D:3109:LEU:HD23	2:D:3112:ILE:HD12	2.01	0.43
1:A:802:ILE:O	1:A:810:LEU:HB3	2.18	0.43
2:B:2942:ILE:CG2	2:B:2943:ALA:N	2.82	0.43
1:C:604:THR:CG2	1:C:608:TRP:CZ3	3.02	0.43
1:C:732:PHE:HE2	1:C:745:ILE:HD12	1.83	0.43
1:C:748:LYS:HB2	1:C:754:GLN:HG2	2.01	0.43
1:A:360:PHE:CD2	1:A:361:ASP:N	2.87	0.43
2:B:3211:THR:CG2	2:B:3277:TYR:CE1	3.02	0.43
2:D:2619:ILE:HG12	2:D:2693:TYR:CG	2.53	0.43
2:D:2228:THR:HG21	2:D:2233:HIS:O	2.18	0.43
1:A:1555:LEU:N	1:A:1555:LEU:HD22	2.34	0.43
2:D:3214:VAL:CG1	2:D:3215:VAL:N	2.81	0.43
1:A:162:ALA:CB	1:A:174:GLN:HB2	2.48	0.43
2:B:1668:ARG:NH2	2:B:1945:TYR:CE1	2.86	0.43
2:B:1754:LEU:N	2:B:1754:LEU:HD23	2.33	0.43
2:D:1931:PHE:HE1	2:D:1942:LYS:CD	2.26	0.43
1:C:50:HIS:CE1	1:C:250:TRP:HD1	2.35	0.43
2:B:3160:LEU:CD1	2:B:3162:ASN:HB2	2.46	0.43
1:A:1379:ILE:CD1	1:A:1444:TYR:HD1	2.31	0.43
2:B:2483:ILE:HG22	2:B:2484:TYR:N	2.33	0.43
2:B:2804:LYS:O	2:B:2805:LYS:HB2	2.19	0.43
2:B:2813:VAL:HG23	2:B:2823:ALA:HB2	2.01	0.43
2:D:2341:LYS:C	2:D:2341:LYS:HD3	2.39	0.43
2:B:3170:PHE:O	2:B:3171:ASN:HB2	2.19	0.43
1:C:1315:THR:O	1:C:1315:THR:HG22	2.18	0.43
1:C:1419:GLN:HE21	1:C:1419:GLN:HB2	1.59	0.43
1:C:724:GLN:HE21	1:C:828:LYS:HG2	1.81	0.43
2:B:2100:LYS:C	2:B:2100:LYS:HD3	2.39	0.43
2:B:2186:PHE:CE1	2:B:2289:ILE:CG1	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1922:TYR:HE1	2:D:2195:TRP:C	2.18	0.43
2:B:2195:TRP:CE3	2:D:1922:TYR:CZ	2.95	0.43
2:D:1860:TYR:N	2:D:1860:TYR:CD1	2.86	0.43
2:B:2542:HIS:CD2	2:B:2559:CYS:SG	3.12	0.43
1:C:1257:ARG:CB	1:C:1521:TYR:HD1	2.17	0.43
1:A:273:LEU:CD1	1:A:273:LEU:N	2.82	0.43
1:A:67:HIS:HD2	1:A:267:LEU:HB3	1.84	0.43
1:A:1427:LEU:HB2	1:A:1454:HIS:CE1	2.54	0.43
1:A:549:ILE:CG2	1:A:551:PHE:CE1	3.01	0.43
1:A:645:ALA:O	1:A:648:MET:HB2	2.19	0.43
1:C:196:ASN:O	1:C:200:THR:HB	2.19	0.43
1:C:76:MET:HE3	1:C:207:PHE:CD1	2.54	0.43
2:D:3346:THR:O	2:D:3350:LYS:HD2	2.18	0.43
2:D:3347:ALA:C	2:D:3350:LYS:HD3	2.39	0.43
2:B:1671:ILE:HD13	2:B:1770:LEU:CD1	2.48	0.43
2:B:3375:PHE:CD2	2:B:3376:MET:N	2.86	0.43
2:B:2401:PHE:CZ	2:B:2460:ILE:HG12	2.53	0.43
2:D:3056:LEU:CD1	2:D:3191:LEU:CD2	2.97	0.43
1:A:759:THR:CG2	1:A:760:PHE:N	2.82	0.43
2:D:2776:MET:CE	2:D:2781:LEU:HD13	2.48	0.43
1:C:759:THR:CG2	1:C:760:PHE:N	2.82	0.43
1:A:1099:HIS:ND1	1:A:1112:PHE:CZ	2.86	0.43
1:A:946:TYR:CD2	1:A:957:ASN:ND2	2.87	0.43
1:C:411:ASP:H	1:C:653:PRO:HB3	1.83	0.43
1:C:1236:HIS:HD2	1:C:1238:PRO:CD	2.31	0.43
1:A:769:MET:CA	1:A:769:MET:CE	2.95	0.43
2:B:2571:ARG:NH1	2:B:2708:TRP:CE3	2.87	0.43
1:A:321:TYR:HD2	1:A:337:LYS:HA	1.78	0.43
2:D:3083:GLY:HA2	2:D:3089:SER:HB2	1.99	0.43
2:B:1745:LEU:HD12	2:B:1754:LEU:HD22	1.95	0.43
1:A:749:THR:HG23	1:A:751:ASP:CA	2.49	0.43
1:C:493:LEU:HD13	1:C:670:PHE:CG	2.53	0.43
1:C:749:THR:HG22	1:C:753:VAL:O	2.18	0.43
2:D:3143:PRO:HA	2:D:3146:TYR:HD2	1.83	0.43
2:D:2953:PRO:HG2	2:D:2960:TYR:HB2	2.01	0.43
1:C:534:ASP:O	1:C:535:SER:HB3	2.19	0.43
2:B:1776:HIS:HB3	2:B:1783:ASP:OD1	2.18	0.43
1:C:933:PRO:CB	1:C:981:GLU:HB3	2.49	0.43
2:D:2168:VAL:CG2	2:D:2169:ALA:N	2.82	0.43
2:D:2301:TRP:O	2:D:2305:GLN:HG2	2.19	0.43
2:D:2296:LYS:HG2	2:D:2358:TYR:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1864:HIS:CE1	2:B:1866:HIS:CG	3.07	0.43
2:B:2195:TRP:HD1	2:D:1695:SER:CA	2.20	0.43
1:C:1242:HIS:HB3	1:C:1249:GLN:HE22	1.83	0.43
1:C:1262:ILE:CG2	1:C:1341:PRO:HB2	2.48	0.43
1:C:439:LEU:CB	1:C:544:PHE:HZ	2.28	0.43
1:C:645:ALA:O	1:C:648:MET:HB2	2.19	0.43
1:C:694:TYR:CE2	1:C:695:GLU:HG2	2.53	0.43
1:A:1242:HIS:HB3	1:A:1249:GLN:HE22	1.83	0.43
1:A:1259:ARG:CG	1:A:1339:ALA:HB3	2.49	0.43
1:A:1265:LEU:HD13	1:A:1269:GLU:OE1	2.19	0.43
1:A:1328:GLU:OE1	1:A:1521:TYR:CE2	2.71	0.43
1:A:1328:GLU:O	1:A:1332:LEU:HD13	2.19	0.43
1:A:1494:ASP:OD1	1:A:1507:ALA:HB1	2.19	0.43
1:A:436:VAL:HG13	1:A:437:LEU:N	2.34	0.43
1:C:97:PRO:CD	1:C:153:THR:HG21	2.49	0.43
1:C:60:HIS:HD2	1:C:65:PHE:HE2	1.59	0.43
2:D:3205:VAL:CG1	2:D:3291:ILE:HD11	2.49	0.43
2:D:3309:GLY:HA2	2:D:3339:MET:CE	2.49	0.43
2:D:3317:LYS:HZ3	2:D:3393:VAL:HG22	1.84	0.43
2:B:1766:LEU:HD21	2:B:1806:ILE:CD1	2.49	0.43
1:C:1161:ILE:HG23	1:C:1210:PHE:CD1	2.54	0.43
2:D:1735:ARG:HD2	2:D:1937:THR:HG22	1.99	0.43
2:B:3347:ALA:CB	2:D:3315:PRO:HG2	2.46	0.43
2:B:3347:ALA:C	2:B:3350:LYS:HD3	2.39	0.43
2:B:3350:LYS:O	2:B:3351:CYS:HB2	2.18	0.43
1:C:462:HIS:CE1	1:C:629:PHE:HZ	2.31	0.43
2:D:3122:ARG:HH12	2:D:3185:GLU:HA	1.82	0.43
2:B:1732:GLN:CB	2:B:1934:PRO:HB3	2.49	0.43
1:A:1185:TRP:HZ3	1:A:1187:TYR:CD2	2.37	0.43
2:D:2942:ILE:HA	2:D:2942:ILE:HD12	1.86	0.43
1:C:1403:GLN:HE22	1:C:1605:LEU:HD21	1.79	0.43
1:C:650:ARG:HD3	1:C:650:ARG:HH11	1.69	0.43
1:A:747:ILE:HG23	1:A:796:PHE:CD2	2.52	0.43
1:A:1137:LYS:HG3	1:A:1138:SER:N	2.33	0.43
2:B:2634:LEU:HA	2:B:2676:TRP:CZ3	2.52	0.43
2:D:3211:THR:CG2	2:D:3277:TYR:CE1	3.02	0.43
2:B:2498:SER:H	2:B:3397:ASP:CG	2.22	0.43
2:B:3383:LEU:C	2:B:3383:LEU:HD13	2.39	0.43
2:B:3032:VAL:HG23	2:B:3086:GLU:HG3	2.00	0.43
2:B:1666:MET:CE	2:B:1742:GLN:HE21	2.31	0.43
1:C:1422:ILE:HA	1:C:1425:ASN:HD21	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1381:HIS:CG	1:C:1382:GLU:N	2.87	0.43
2:B:3142:HIS:CG	2:B:3146:TYR:CE2	3.06	0.43
1:A:229:LYS:HG2	1:A:230:ASP:N	2.34	0.43
2:D:3024:ILE:HG21	2:D:3027:ILE:HG22	2.00	0.43
2:D:2072:HIS:CD2	2:D:2072:HIS:H	2.35	0.43
1:A:56:ALA:HB2	1:A:348:SER:O	2.19	0.43
1:A:1315:THR:O	1:A:1315:THR:HG22	2.18	0.43
2:D:2143:MET:CE	2:D:2321:LEU:HD11	2.48	0.43
2:D:2273:TYR:CE2	2:D:2280:TYR:CZ	3.07	0.43
2:B:2268:GLY:HA3	2:B:2276:SER:H	1.84	0.43
2:D:1715:ALA:CA	2:D:1719:ARG:NH2	2.47	0.43
1:C:1259:ARG:CG	1:C:1339:ALA:HB3	2.49	0.43
1:C:1325:VAL:HG21	1:C:1519:PHE:CD1	2.53	0.43
1:A:67:HIS:CA	1:A:267:LEU:HG	2.48	0.43
1:A:65:PHE:HZ	1:A:179:HIS:CD2	2.36	0.43
2:B:2570:HIS:O	2:B:2574:THR:HG23	2.19	0.43
1:C:97:PRO:HB2	1:C:146:LYS:HD2	2.00	0.43
1:C:159:VAL:CG2	1:C:160:LEU:N	2.82	0.43
1:C:194:MET:SD	1:C:205:ILE:CD1	3.07	0.43
1:C:69:HIS:CD2	1:C:210:HIS:NE2	2.87	0.43
1:C:68:TRP:CA	1:C:245:MET:SD	3.07	0.43
2:D:3327:MET:CG	2:D:3328:PHE:N	2.82	0.43
2:D:3341:ASN:OD1	2:D:3359:HIS:HD2	2.02	0.43
2:B:1757:TRP:N	2:B:1876:ILE:HG22	2.34	0.43
2:B:3287:LEU:CB	2:B:3288:PRO:CA	2.97	0.43
2:B:3318:VAL:HG22	2:B:3394:HIS:CB	2.48	0.43
2:B:2459:PHE:O	2:B:2460:ILE:HD12	2.19	0.43
2:B:1973:VAL:HG23	2:B:1973:VAL:O	2.18	0.43
2:B:2909:ARG:NH2	2:B:2979:ILE:HG22	2.34	0.43
1:C:360:PHE:CD2	1:C:361:ASP:N	2.87	0.43
1:C:1607:ILE:CD1	1:C:1611:LEU:HD11	2.31	0.43
2:B:2322:MET:CE	2:B:2346:ASN:HA	2.48	0.43
1:C:1192:LYS:HE3	1:C:1235:ILE:HD12	1.98	0.43
2:B:1780:THR:CG2	2:B:1781:GLY:N	2.82	0.43
2:D:3210:ARG:NH2	2:D:3243:PRO:HB3	2.34	0.43
1:A:1588:ILE:HG23	1:A:1588:ILE:O	2.17	0.43
2:D:2571:ARG:NH1	2:D:2708:TRP:CE3	2.87	0.43
1:C:1379:ILE:CD1	1:C:1444:TYR:HD1	2.31	0.43
1:A:1379:ILE:HD11	1:A:1381:HIS:NE2	2.33	0.43
2:D:2126:ALA:HB3	2:D:2135:GLU:HB3	2.01	0.43
2:B:2760:GLU:HG2	2:B:2763:ARG:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2953:PRO:HG2	2:B:2960:TYR:HB2	2.01	0.43
1:A:912:SER:CB	1:A:1043:TYR:CE1	3.00	0.43
2:B:3029:GLN:CD	2:B:3088:TYR:CG	2.93	0.43
2:D:2172:TYR:CB	2:D:2293:PHE:N	2.82	0.43
1:A:891:PHE:CG	1:A:1183:MET:HG2	2.54	0.43
2:B:2805:LYS:CG	2:B:2806:SER:N	2.82	0.43
1:C:532:TYR:HE2	1:C:534:ASP:CB	2.31	0.43
2:B:2405:LYS:CG	2:B:2406:THR:N	2.82	0.43
2:B:2637:ASP:HA	2:B:2638:PRO:HD3	1.72	0.43
1:C:280:LEU:N	1:C:280:LEU:HD22	2.34	0.43
2:B:3242:MET:HG2	2:B:3242:MET:O	2.18	0.43
2:D:2103:LEU:HD12	2:D:2204:PHE:CZ	2.54	0.43
2:D:2156:GLN:HE21	2:D:2156:GLN:CA	2.31	0.43
2:D:2273:TYR:HA	2:D:2280:TYR:CD2	2.54	0.43
2:B:2175:TRP:HD1	2:B:2236:LEU:CG	2.28	0.43
2:B:2296:LYS:HG2	2:B:2358:TYR:CD1	2.54	0.43
2:B:2101:TYR:O	2:D:1693:HIS:CD2	2.72	0.43
2:D:2566:PHE:HB3	2:D:2567:PRO:CD	2.48	0.43
1:C:442:ALA:HB1	1:C:505:ARG:CD	2.48	0.43
1:A:80:LEU:HB3	1:A:85:ARG:HB3	1.97	0.43
1:A:446:PHE:CD2	1:A:505:ARG:NH2	2.87	0.43
1:C:21:ALA:C	1:C:24:ARG:HG2	2.39	0.43
1:A:1662:THR:CB	2:B:1893:ARG:CB	2.88	0.43
1:C:1099:HIS:ND1	1:C:1112:PHE:CZ	2.86	0.43
1:A:1142:PHE:HZ	1:A:1234:VAL:CG2	2.31	0.43
2:B:3305:GLU:HG3	2:B:3319:VAL:CG1	2.48	0.43
2:B:3308:ILE:HG12	2:B:3309:GLY:H	1.84	0.43
1:C:629:PHE:CG	1:C:633:HIS:CE1	3.07	0.43
1:A:604:THR:CG2	1:A:608:TRP:CZ3	3.02	0.43
2:B:3033:ARG:HD2	2:B:3033:ARG:N	2.34	0.43
1:C:667:LEU:HG	1:C:688:PRO:HG3	2.00	0.43
1:A:317:ASN:ND2	1:A:319:PHE:CZ	2.87	0.43
1:C:791:THR:CG2	1:C:794:GLY:H	2.18	0.43
1:C:171:PHE:CZ	1:C:175:PHE:CD1	3.07	0.43
2:D:3204:PHE:CB	2:D:3206:LEU:CD2	2.94	0.43
2:D:1689:MET:CB	2:D:1748:HIS:CE1	3.02	0.43
1:A:12:THR:CG2	1:A:13:GLN:N	2.82	0.43
2:B:2383:ARG:NE	2:B:2385:PHE:CZ	2.87	0.43
2:D:2516:VAL:CG2	2:D:2517:ASP:N	2.82	0.43
2:B:2516:VAL:CG2	2:B:2517:ASP:N	2.82	0.43
1:A:32:SER:HA	1:A:37:LYS:CG	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1202:LEU:HD13	1:A:1204:LEU:CD1	2.48	0.43
1:A:861:LYS:HZ3	1:A:962:GLY:CA	2.32	0.43
2:D:2151:ARG:NH2	2:D:2298:TRP:CE3	2.87	0.42
2:D:2388:PHE:N	2:D:2432:LEU:CD1	2.82	0.42
2:B:2214:THR:CG2	2:B:2215:TYR:N	2.81	0.42
2:B:2273:TYR:CE2	2:B:2280:TYR:CZ	3.07	0.42
2:D:2538:ILE:HA	2:D:2541:PHE:CD1	2.53	0.42
2:D:2688:LEU:CD1	2:D:2829:LEU:HD11	2.49	0.42
1:C:1328:GLU:OE1	1:C:1521:TYR:CE2	2.70	0.42
1:C:1328:GLU:O	1:C:1332:LEU:HD13	2.19	0.42
2:D:2570:HIS:O	2:D:2574:THR:HG23	2.19	0.42
1:C:436:VAL:HG13	1:C:437:LEU:N	2.34	0.42
1:C:552:GLU:HB2	1:C:554:ASN:OD1	2.20	0.42
1:C:494:PHE:CE2	1:C:630:TYR:CE1	3.07	0.42
1:A:197:LEU:O	1:A:200:THR:HG22	2.18	0.42
1:A:160:LEU:HD23	1:A:297:ARG:CZ	2.49	0.42
1:A:68:TRP:CA	1:A:245:MET:SD	3.07	0.42
1:A:1453:LEU:H	1:A:1453:LEU:CD1	2.31	0.42
1:A:498:VAL:HB	1:A:630:TYR:HE1	1.77	0.42
1:A:442:ALA:HB1	1:A:505:ARG:CD	2.48	0.42
1:A:619:SER:HB3	1:A:622:TYR:HB2	2.01	0.42
1:A:513:TYR:HB2	1:A:635:ASN:HA	2.01	0.42
1:C:42:HIS:CD2	1:C:206:PHE:CZ	3.07	0.42
2:D:3325:LYS:HD3	2:D:3367:TYR:HB3	2.00	0.42
2:D:3388:ASN:OD1	2:D:3390:ARG:CD	2.67	0.42
1:C:1095:VAL:CG1	1:C:1099:HIS:CE1	3.02	0.42
2:D:1757:TRP:HZ2	2:D:1763:ARG:NH1	2.17	0.42
2:B:1757:TRP:CB	2:B:1876:ILE:CG2	2.95	0.42
2:D:2323:THR:O	2:D:2344:VAL:HG23	2.19	0.42
2:B:3291:ILE:CD1	2:B:3314:LEU:CD1	2.94	0.42
2:D:2092:SER:O	2:D:2096:ILE:HG22	2.19	0.42
1:A:600:ILE:CG2	1:A:601:THR:N	2.82	0.42
1:A:748:LYS:HB2	1:A:754:GLN:HG2	2.01	0.42
1:C:369:MET:SD	1:C:371:MET:CE	3.07	0.42
1:C:490:TRP:CA	1:C:667:LEU:HD13	2.49	0.42
1:C:1567:PHE:HE1	1:C:1610:ALA:CB	2.33	0.42
1:C:1646:ILE:HG23	2:D:1906:VAL:HG22	2.01	0.42
1:A:1126:ILE:H	1:A:1126:ILE:HD12	1.84	0.42
2:D:2427:TRP:HZ3	2:D:2429:TYR:CD2	2.37	0.42
1:C:781:ILE:CG2	1:C:785:LEU:CG	2.94	0.42
2:B:2645:PHE:O	2:B:2648:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:317:ASN:ND2	1:C:319:PHE:CZ	2.87	0.42
1:A:1034:ARG:CD	1:A:1035:TYR:CE2	3.01	0.42
2:D:1754:LEU:HD23	2:D:1754:LEU:N	2.33	0.42
1:C:384:PHE:CZ	1:C:388:GLY:CA	2.95	0.42
2:B:2126:ALA:HB3	2:B:2135:GLU:HB3	2.01	0.42
1:C:1124:LEU:HD11	1:C:1132:LYS:HD3	2.01	0.42
2:D:2383:ARG:HE	2:D:2385:PHE:HZ	1.64	0.42
2:D:2383:ARG:NE	2:D:2385:PHE:HZ	2.17	0.42
2:D:2812:ASP:HB2	2:D:2821:HIS:O	2.19	0.42
2:B:2720:LEU:HD23	2:B:2900:GLU:HB3	2.01	0.42
1:A:532:TYR:HE2	1:A:534:ASP:CB	2.31	0.42
2:B:2756:THR:CG2	2:B:2757:ASP:N	2.82	0.42
2:D:1822:TRP:CZ2	2:D:1826:GLN:NE2	2.87	0.42
1:A:14:GLU:HG3	1:A:15:GLU:N	2.33	0.42
1:A:451:SER:HB2	1:A:1272:SER:HA	2.00	0.42
2:D:2105:SER:CB	2:D:2164:HIS:HD2	2.32	0.42
2:B:2141:HIS:CE1	2:B:2278:LEU:HD11	2.55	0.42
2:B:2294:VAL:CG1	2:B:2295:ASP:N	2.82	0.42
2:B:2301:TRP:O	2:B:2305:GLN:HG2	2.19	0.42
2:D:2688:LEU:HD13	2:D:2829:LEU:HD11	2.01	0.42
1:C:452:VAL:CG2	1:C:453:ASP:N	2.82	0.42
1:C:492:ARG:O	1:C:496:THR:HG23	2.19	0.42
1:A:23:LEU:HB3	1:A:122:TYR:HD2	1.74	0.42
1:A:160:LEU:CD2	1:A:293:TYR:HE2	2.32	0.42
1:A:292:THR:CG2	1:A:293:TYR:N	2.82	0.42
1:A:97:PRO:CD	1:A:153:THR:HG21	2.49	0.42
1:A:1533:ILE:HB	1:A:1534:PRO:CD	2.44	0.42
2:D:3326:ILE:HG12	2:D:3327:MET:N	2.34	0.42
1:C:1110:THR:CG2	1:C:1111:ASN:N	2.81	0.42
1:C:910:VAL:HG21	1:C:1112:PHE:CE2	2.54	0.42
1:A:1567:PHE:HB2	1:A:1582:GLU:N	2.33	0.42
2:B:3190:VAL:CG1	2:B:3191:LEU:N	2.83	0.42
2:B:1757:TRP:CZ2	2:B:1763:ARG:CZ	3.02	0.42
1:A:1161:ILE:HG23	1:A:1210:PHE:CD1	2.54	0.42
1:C:1231:GLN:HE21	1:C:1231:GLN:HA	1.83	0.42
2:B:3344:SER:HB3	2:B:3348:MET:HB3	1.98	0.42
2:D:2459:PHE:O	2:D:2460:ILE:HD12	2.19	0.42
1:A:901:PHE:HB3	1:A:902:PRO:CD	2.44	0.42
1:C:481:VAL:CB	1:C:486:ILE:CG2	2.97	0.42
1:C:1567:PHE:HB2	1:C:1582:GLU:N	2.33	0.42
2:D:2622:LEU:CG	2:D:2683:TYR:CE1	2.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1108:TYR:CG	1:A:1109:LYS:N	2.86	0.42
1:A:853:LEU:CG	1:A:921:TYR:CZ	2.96	0.42
2:B:2228:THR:HG21	2:B:2233:HIS:O	2.18	0.42
1:A:989:THR:CG2	1:A:990:SER:N	2.82	0.42
1:C:317:ASN:ND2	1:C:342:PHE:CE2	2.87	0.42
1:A:171:PHE:CZ	1:A:175:PHE:CD1	3.07	0.42
2:B:2503:GLY:HA3	2:B:2588:VAL:HG12	1.98	0.42
2:D:2572:LEU:HD23	2:D:2764:PHE:CE2	2.40	0.42
2:B:2088:LEU:HD12	2:B:2089:SER:CA	2.49	0.42
2:B:2605:PHE:CE2	2:B:2614:PHE:CG	3.06	0.42
2:B:1689:MET:CB	2:B:1748:HIS:CE1	3.02	0.42
2:D:3081:LEU:H	2:D:3081:LEU:CD2	2.29	0.42
2:D:2383:ARG:NE	2:D:2385:PHE:CZ	2.87	0.42
1:A:1405:LEU:HD11	1:A:1540:LEU:HD21	2.00	0.42
1:A:1202:LEU:HB2	1:A:1204:LEU:HG	2.01	0.42
2:D:2804:LYS:O	2:D:2805:LYS:HB2	2.19	0.42
2:B:2341:LYS:C	2:B:2341:LYS:HD3	2.39	0.42
1:A:1531:TYR:CD1	1:A:1535:GLN:NE2	2.87	0.42
1:A:280:LEU:N	1:A:280:LEU:HD22	2.34	0.42
2:D:2243:ALA:CA	2:D:2255:GLN:HG2	2.49	0.42
2:B:2268:GLY:HA2	2:B:2274:SER:HB2	2.01	0.42
2:B:2151:ARG:NH2	2:B:2298:TRP:CE3	2.87	0.42
2:B:2301:TRP:CZ2	2:B:2305:GLN:NE2	2.87	0.42
1:A:1092:THR:CG2	1:A:1093:ASP:N	2.82	0.42
1:A:724:GLN:NE2	1:A:828:LYS:CD	2.78	0.42
1:C:514:TRP:CZ2	1:C:524:PRO:CD	2.98	0.42
1:A:69:HIS:CD2	1:A:210:HIS:NE2	2.87	0.42
1:A:244:LYS:HD2	1:A:262:SER:OG	2.18	0.42
1:A:1442:LEU:HD13	1:A:1442:LEU:O	2.18	0.42
1:A:710:ILE:HG21	1:A:715:ILE:CA	2.49	0.42
1:C:292:THR:CG2	1:C:293:TYR:N	2.82	0.42
2:D:3291:ILE:CD1	2:D:3314:LEU:CD1	2.94	0.42
2:D:3308:ILE:HG12	2:D:3309:GLY:H	1.84	0.42
1:C:909:THR:CG2	1:C:910:VAL:N	2.83	0.42
1:A:1604:LYS:HZ2	1:A:1647:LEU:HD23	1.80	0.42
2:B:1789:ILE:CG2	2:B:1790:GLY:N	2.82	0.42
1:C:1161:ILE:CG1	1:C:1195:ILE:HD11	2.44	0.42
2:B:3205:VAL:CG1	2:B:3291:ILE:HD11	2.49	0.42
2:D:3056:LEU:HD21	2:D:3190:VAL:CG1	2.50	0.42
1:A:588:GLN:NE2	1:A:597:GLN:HG3	2.33	0.42
2:D:2942:ILE:CG2	2:D:2943:ALA:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:305:ALA:N	1:C:362:LEU:CD1	2.82	0.42
1:C:485:PRO:HG2	1:C:662:LEU:CD2	2.49	0.42
1:C:516:TRP:CD1	1:C:605:ILE:HD12	2.54	0.42
2:D:1705:HIS:CE1	2:D:1865:LEU:HD12	2.45	0.42
2:B:3211:THR:HG21	2:B:3277:TYR:CD1	2.55	0.42
1:A:728:ILE:HG12	1:A:822:ARG:HG3	2.02	0.42
1:A:1306:ILE:CG2	1:A:1307:SER:N	2.83	0.42
1:C:1018:ILE:CG1	1:C:1045:HIS:CE1	3.03	0.42
1:A:1190:VAL:CG1	1:A:1191:PHE:N	2.82	0.42
1:C:1143:PHE:HE2	1:C:1194:ASP:HB2	1.83	0.42
2:D:2088:LEU:HD12	2:D:2089:SER:CA	2.49	0.42
2:B:2631:ARG:NE	2:B:2679:GLY:HA2	2.22	0.42
1:C:12:THR:CG2	1:C:13:GLN:N	2.82	0.42
2:D:2178:PRO:HA	2:D:2226:HIS:ND1	2.34	0.42
1:C:1405:LEU:HD11	1:C:1540:LEU:HD21	2.00	0.42
2:B:2172:TYR:CB	2:B:2293:PHE:N	2.82	0.42
2:B:2323:THR:O	2:B:2344:VAL:HG23	2.19	0.42
2:B:2651:LEU:CD2	2:B:2785:LEU:HD21	2.48	0.42
2:B:1910:LYS:O	2:B:1933:LYS:HG2	2.19	0.42
1:A:534:ASP:O	1:A:535:SER:HB3	2.19	0.42
2:B:1949:THR:CG2	2:B:1950:LEU:N	2.82	0.42
2:D:2558:CYS:HB3	2:D:2738:PRO:HD3	2.01	0.42
2:D:2792:ASP:CG	2:D:2890:PRO:HA	2.40	0.42
1:A:994:GLN:HA	1:A:994:GLN:HE21	1.84	0.42
1:C:1661:HIS:CE1	1:C:1663:GLU:HG2	2.54	0.42
2:D:2342:HIS:NE2	2:D:2353:LEU:HB3	2.34	0.42
1:C:1252:VAL:HG23	1:C:1253:THR:N	2.34	0.42
2:D:2140:ILE:CG1	2:D:2143:MET:CB	2.96	0.42
2:D:2289:ILE:CD1	2:D:2289:ILE:H	2.33	0.42
2:B:2103:LEU:HD12	2:B:2204:PHE:CZ	2.54	0.42
2:B:1741:PHE:CE2	2:B:1875:TYR:CE1	3.08	0.42
2:D:2569:TRP:HD1	2:D:2736:LEU:HB3	1.85	0.42
1:C:1092:THR:CG2	1:C:1093:ASP:N	2.82	0.42
1:C:1427:LEU:HB2	1:C:1454:HIS:CE1	2.54	0.42
1:C:1494:ASP:OD1	1:C:1507:ALA:HB1	2.19	0.42
1:C:492:ARG:HG3	1:C:637:ASP:OD2	2.19	0.42
1:C:494:PHE:HE2	1:C:630:TYR:CE1	2.37	0.42
1:C:446:PHE:CD2	1:C:505:ARG:NH2	2.87	0.42
1:C:619:SER:HB3	1:C:622:TYR:HB2	2.01	0.42
1:A:104:LEU:CB	1:A:123:TRP:CE3	3.01	0.42
1:A:97:PRO:HB3	1:A:146:LYS:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1280:ILE:HD11	1:A:1330:ALA:CB	2.50	0.42
1:A:697:VAL:CG2	1:A:698:LEU:N	2.82	0.42
1:A:715:ILE:CG2	1:A:716:GLU:N	2.83	0.42
1:C:241:LEU:O	1:C:264:PRO:HD2	2.18	0.42
2:D:3287:LEU:HB2	2:D:3289:ALA:N	2.34	0.42
1:C:946:TYR:CD2	1:C:957:ASN:ND2	2.87	0.42
1:A:1567:PHE:CD1	1:A:1583:ALA:CA	2.95	0.42
2:B:3054:LEU:CD2	2:B:3054:LEU:H	2.33	0.42
1:A:1142:PHE:CZ	1:A:1234:VAL:CG2	3.02	0.42
1:C:1161:ILE:CD1	1:C:1171:ALA:CB	2.94	0.42
2:D:1732:GLN:CB	2:D:1934:PRO:HB3	2.49	0.42
2:B:3132:CYS:SG	2:B:3248:ARG:NH2	2.92	0.42
2:B:3341:ASN:OD1	2:B:3359:HIS:HD2	2.02	0.42
2:B:3374:TYR:HB3	2:B:3375:PHE:H	1.65	0.42
1:C:1185:TRP:HZ3	1:C:1187:TYR:CD2	2.37	0.42
2:B:2437:ILE:HD13	2:B:2441:LEU:HD11	2.00	0.42
2:D:2965:HIS:CE1	2:D:3093:LEU:CD1	3.03	0.42
1:A:486:ILE:CG2	1:A:487:PHE:N	2.82	0.42
1:A:748:LYS:HB3	1:A:797:GLU:HB2	2.01	0.42
2:D:2912:ILE:HG23	2:D:2996:TYR:O	2.20	0.42
2:B:2471:VAL:CG1	2:B:2472:LEU:N	2.83	0.42
1:C:802:ILE:CD1	1:C:815:ILE:HG12	2.41	0.42
1:C:1570:LEU:HD12	1:C:1570:LEU:N	2.34	0.42
1:C:1640:VAL:CG2	1:C:1641:ILE:N	2.83	0.42
1:A:957:ASN:HB2	1:A:960:PHE:HB2	2.01	0.42
1:C:1306:ILE:CG2	1:C:1307:SER:N	2.83	0.42
1:C:1392:ASP:O	1:C:1395:PHE:CE2	2.72	0.42
2:B:2646:PHE:O	2:B:2650:VAL:HG23	2.20	0.42
2:D:1780:THR:CG2	2:D:1781:GLY:N	2.82	0.42
2:D:3211:THR:HG21	2:D:3277:TYR:CD1	2.55	0.42
1:C:972:THR:CG2	1:C:973:ARG:N	2.82	0.42
2:D:3217:VAL:HG11	2:D:3252:PHE:CE2	2.55	0.42
2:D:3220:LYS:HE3	2:D:3272:PHE:HD2	1.85	0.42
1:C:749:THR:HG23	1:C:751:ASP:CA	2.49	0.42
1:A:1436:LYS:HG3	1:A:1437:TYR:HD1	1.83	0.42
2:D:2127:LYS:CD	2:D:2333:ILE:CD1	2.95	0.42
2:D:2651:LEU:CD2	2:D:2785:LEU:HD21	2.48	0.42
2:B:2467:VAL:CG1	2:B:2468:ASN:N	2.82	0.42
2:B:2558:CYS:HB3	2:B:2738:PRO:HD3	2.02	0.42
2:D:2792:ASP:HA	2:D:2890:PRO:O	2.19	0.42
2:D:2268:GLY:HA3	2:D:2276:SER:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2243:ALA:CA	2:B:2255:GLN:HG2	2.49	0.42
2:D:1864:HIS:CE1	2:D:1866:HIS:CG	3.07	0.42
1:C:1087:SER:CA	1:C:1097:LYS:HZ2	2.15	0.42
1:C:1265:LEU:HD13	1:C:1269:GLU:OE1	2.19	0.42
1:C:1327:VAL:HG23	1:C:1328:GLU:N	2.34	0.42
1:A:135:THR:HG21	1:A:203:ASP:OD1	2.20	0.42
1:A:240:LEU:N	1:A:240:LEU:HD22	2.35	0.42
1:A:160:LEU:CD2	1:A:293:TYR:CE2	3.00	0.42
1:A:1324:VAL:CG1	1:A:1325:VAL:N	2.83	0.42
1:A:508:THR:CG2	1:A:509:ILE:N	2.83	0.42
1:A:514:TRP:CZ2	1:A:524:PRO:CD	2.98	0.42
1:A:492:ARG:HG3	1:A:637:ASP:OD2	2.19	0.42
1:A:645:ALA:HB1	1:A:712:LEU:HD13	2.01	0.42
2:D:3132:CYS:SG	2:D:3248:ARG:NH2	2.93	0.42
2:D:3344:SER:HB3	2:D:3348:MET:HB3	1.98	0.42
1:C:857:LEU:HD23	1:C:958:PRO:C	2.40	0.42
1:A:1618:LEU:CD1	2:B:1906:VAL:HG11	2.45	0.42
2:B:3074:LEU:O	2:B:3074:LEU:HD13	2.20	0.42
2:B:1759:TRP:CD2	2:B:1850:VAL:HG11	2.55	0.42
1:A:1151:PHE:HA	1:A:1153:LYS:HE3	1.60	0.42
2:D:2909:ARG:NH2	2:D:2979:ILE:HG22	2.34	0.42
1:C:305:ALA:HB2	1:C:362:LEU:HD21	2.02	0.42
1:C:516:TRP:CD1	1:C:605:ILE:CD1	3.03	0.42
2:B:3210:ARG:NH2	2:B:3243:PRO:HB3	2.34	0.42
1:A:857:LEU:HD23	1:A:958:PRO:C	2.40	0.42
1:A:1392:ASP:O	1:A:1395:PHE:CE2	2.72	0.42
2:D:2646:PHE:O	2:D:2650:VAL:HG23	2.20	0.42
2:B:2568:HIS:CE1	2:B:2732:MET:CE	3.02	0.42
1:C:1143:PHE:HD2	1:C:1193:TYR:O	2.01	0.42
2:B:1931:PHE:CB	2:B:1943:PHE:CZ	3.02	0.42
1:A:1503:THR:CG2	1:A:1504:LYS:N	2.83	0.42
2:D:2217:VAL:CG1	2:D:2218:ARG:N	2.82	0.42
2:D:3140:PRO:HB2	2:D:3145:ASN:ND2	2.35	0.42
1:A:1381:HIS:CG	1:A:1382:GLU:N	2.87	0.42
2:D:1689:MET:CE	2:D:1698:PHE:CD1	2.95	0.42
2:B:3024:ILE:HG21	2:B:3027:ILE:HG22	2.00	0.42
2:D:2856:LEU:HD13	2:D:2862:PHE:CB	2.49	0.42
2:B:1683:VAL:O	2:B:1787:PRO:HG3	2.20	0.42
2:D:2741:ASP:HA	2:D:2742:PRO:HD2	1.87	0.42
2:D:2743:ILE:CG2	2:D:2744:ASN:N	2.82	0.42
1:C:1545:ARG:HB2	1:C:1545:ARG:HH11	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1946:ILE:CG1	2:D:1947:TYR:N	2.83	0.42
2:D:2405:LYS:CG	2:D:2406:THR:N	2.82	0.42
2:D:3034:ASP:O	2:D:3084:GLY:HA3	2.20	0.42
2:D:2756:THR:CG2	2:D:2757:ASP:N	2.82	0.42
2:B:2105:SER:CB	2:B:2164:HIS:HD2	2.32	0.42
2:D:1721:ALA:HB2	2:D:2012:LYS:HB2	2.02	0.42
1:C:1274:ARG:CG	1:C:1275:ALA:N	2.82	0.42
1:C:1280:ILE:HD11	1:C:1330:ALA:CB	2.50	0.42
1:C:1453:LEU:CD1	1:C:1453:LEU:H	2.31	0.42
1:C:558:THR:HA	1:C:626:ASP:OD2	2.20	0.42
1:A:159:VAL:CG2	1:A:160:LEU:N	2.82	0.42
1:A:241:LEU:CD1	1:A:265:ALA:N	2.82	0.42
1:A:73:VAL:CG2	1:A:74:VAL:N	2.83	0.42
1:A:1327:VAL:HG23	1:A:1328:GLU:N	2.34	0.42
1:A:1308:CYS:HB3	1:A:1492:PRO:HD3	2.01	0.42
1:A:676:LEU:HD13	1:A:676:LEU:HA	1.84	0.42
1:A:426:LYS:HD2	1:A:509:ILE:HD13	2.02	0.42
1:C:19:LEU:HB2	1:C:85:ARG:NE	2.34	0.42
1:C:67:HIS:HD2	1:C:267:LEU:HB3	1.84	0.42
1:C:921:TYR:HD2	1:C:923:GLY:O	2.01	0.42
2:B:3056:LEU:HD21	2:B:3190:VAL:CG1	2.50	0.42
1:A:1216:VAL:HG23	1:A:1216:VAL:O	2.19	0.42
2:B:3326:ILE:HG12	2:B:3327:MET:N	2.34	0.42
2:D:2401:PHE:CG	2:D:2402:GLN:N	2.86	0.42
2:D:3054:LEU:CD2	2:D:3054:LEU:H	2.33	0.42
1:A:1075:THR:CG2	1:A:1076:SER:N	2.82	0.42
1:A:481:VAL:CB	1:A:486:ILE:CG2	2.97	0.42
1:A:402:VAL:HG13	1:A:402:VAL:O	2.19	0.42
2:B:2927:LEU:O	2:B:2931:GLN:HG3	2.18	0.42
1:C:365:THR:CG2	1:C:366:VAL:N	2.82	0.42
1:C:748:LYS:HB3	1:C:797:GLU:HB2	2.01	0.42
1:A:305:ALA:HB2	1:A:362:LEU:HD21	2.02	0.42
1:A:369:MET:SD	1:A:371:MET:CE	3.07	0.42
2:B:3211:THR:CG2	2:B:3212:THR:N	2.82	0.42
1:A:1110:THR:CG2	1:A:1111:ASN:N	2.81	0.42
1:C:796:PHE:HZ	1:C:820:VAL:HG21	1.85	0.42
2:B:1963:ILE:CG2	2:B:1964:VAL:N	2.83	0.42
1:C:1009:ILE:CG2	1:C:1010:GLN:N	2.83	0.42
2:D:3031:THR:HG21	2:D:3099:ASP:CB	2.50	0.42
2:D:1931:PHE:HB3	2:D:1943:PHE:CZ	2.55	0.42
2:D:1955:TRP:HB2	2:D:1960:ILE:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2088:LEU:C	2:B:2088:LEU:HD12	2.38	0.42
1:C:1503:THR:CG2	1:C:1504:LYS:N	2.83	0.42
2:B:1689:MET:CE	2:B:1698:PHE:CD1	2.95	0.42
2:B:2178:PRO:HA	2:B:2226:HIS:ND1	2.34	0.42
1:A:312:PHE:CD1	1:A:351:LYS:CD	2.99	0.42
2:D:1910:LYS:O	2:D:1933:LYS:HG2	2.19	0.42
1:C:99:THR:CG2	1:C:100:GLN:N	2.82	0.42
1:A:257:LEU:CD1	1:A:261:HIS:CE1	3.03	0.42
1:A:1542:GLU:CA	1:A:1545:ARG:HD3	2.47	0.42
1:C:307:PHE:CE2	1:C:399:PRO:HG3	2.55	0.42
2:B:1958:ARG:CZ	2:B:1962:HIS:NE2	2.83	0.42
2:D:1958:ARG:CZ	2:D:1962:HIS:NE2	2.83	0.42
1:C:56:ALA:HB2	1:C:348:SER:O	2.19	0.42
1:C:451:SER:HB2	1:C:1272:SER:HA	2.00	0.42
2:B:2268:GLY:HA3	2:B:2276:SER:HB3	2.01	0.42
2:B:2336:ASN:ND2	2:B:2338:PHE:CE2	2.86	0.42
2:B:1707:LEU:HD23	2:B:1709:PRO:HD3	0.51	0.42
1:A:1090:ILE:CG2	1:A:1091:ASN:N	2.82	0.42
1:C:468:CYS:CB	1:C:477:TYR:CE1	3.02	0.42
1:C:495:VAL:CG1	1:C:496:THR:N	2.83	0.42
1:C:514:TRP:CZ3	1:C:628:LEU:CD1	3.03	0.42
1:A:11:LEU:HD11	1:A:90:PRO:HG3	1.99	0.42
1:A:122:TYR:H	1:A:122:TYR:HD1	1.62	0.42
1:A:194:MET:SD	1:A:205:ILE:CD1	3.07	0.42
1:A:42:HIS:CD2	1:A:206:PHE:CZ	3.07	0.42
1:A:426:LYS:HB3	1:A:430:ASP:OD1	2.19	0.42
1:A:494:PHE:HE2	1:A:630:TYR:CE1	2.38	0.42
1:C:921:TYR:CD2	1:C:923:GLY:O	2.73	0.42
2:D:1759:TRP:CD2	2:D:1850:VAL:HG11	2.55	0.42
2:B:1770:LEU:HD22	2:B:1873:LEU:HD12	2.00	0.42
2:B:1852:THR:CG2	2:B:1853:TRP:N	2.83	0.42
2:B:3353:VAL:HG12	2:B:3377:THR:CG2	2.47	0.42
1:A:1153:LYS:HD2	1:A:1153:LYS:N	2.35	0.42
2:B:2942:ILE:HD12	2:B:2942:ILE:HA	1.86	0.42
1:C:605:ILE:CG1	1:C:632:HIS:CE1	3.02	0.42
2:B:2912:ILE:HG23	2:B:2996:TYR:O	2.20	0.42
1:A:857:LEU:HD12	1:A:860:LEU:HD22	2.01	0.42
2:B:1815:SER:HB2	2:B:1820:HIS:O	2.20	0.42
1:C:1146:PHE:N	1:C:1190:VAL:CG1	2.83	0.42
1:C:930:TRP:CD2	1:C:1018:ILE:HG12	2.55	0.42
1:A:1009:ILE:CG2	1:A:1010:GLN:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3212:THR:CG2	2:D:3213:ALA:N	2.83	0.42
2:B:3020:PHE:CE2	2:B:3021:LYS:CD	3.02	0.42
2:B:3204:PHE:CB	2:B:3206:LEU:CD2	2.94	0.42
2:D:1931:PHE:CB	2:D:1943:PHE:CZ	3.02	0.42
2:D:1815:SER:HB2	2:D:1820:HIS:O	2.20	0.42
1:C:32:SER:CB	1:C:37:LYS:HG3	2.50	0.42
1:A:1059:LEU:HD21	1:A:1130:ASN:HB2	2.02	0.42
2:D:2906:ILE:HG22	2:D:2907:LEU:N	2.34	0.42
2:B:2864:PHE:HE1	2:B:2886:VAL:CG2	2.33	0.42
2:D:2805:LYS:CG	2:D:2806:SER:N	2.82	0.42
1:C:805:VAL:CG1	1:C:806:ASP:N	2.83	0.42
1:A:1621:ASP:N	1:A:1621:ASP:OD1	2.51	0.42
2:B:2406:THR:CG2	2:B:2407:SER:N	2.83	0.42
1:A:1350:GLU:HA	1:A:1396:HIS:CE1	2.54	0.42
2:D:2085:ARG:HG2	2:D:2169:ALA:HB1	2.02	0.42
2:D:2294:VAL:CG1	2:D:2295:ASP:N	2.83	0.42
2:D:2339:THR:CG2	2:D:2340:LYS:N	2.82	0.42
2:D:2416:ILE:CG2	2:D:2417:PHE:N	2.82	0.42
2:B:2140:ILE:O	2:B:2146:PHE:HD2	2.03	0.42
2:B:2286:ILE:CG2	2:B:2287:PHE:N	2.83	0.42
2:B:2289:ILE:N	2:B:2289:ILE:CD1	2.83	0.42
2:B:2339:THR:CG2	2:B:2340:LYS:N	2.82	0.42
2:B:1701:ILE:HA	2:B:1704:PHE:CD1	2.55	0.42
1:C:1254:SER:N	1:C:1522:ALA:HB2	2.35	0.42
1:C:1258:ILE:HG22	1:C:1259:ARG:N	2.35	0.42
1:C:1280:ILE:CG2	1:C:1281:GLU:N	2.83	0.42
1:C:508:THR:CG2	1:C:509:ILE:N	2.83	0.42
1:C:615:PHE:HD1	1:C:622:TYR:CZ	2.36	0.42
1:C:710:ILE:HG21	1:C:715:ILE:CA	2.49	0.42
1:A:97:PRO:CG	1:A:153:THR:HG21	2.49	0.42
1:A:1275:ALA:HA	1:A:1278:LEU:HD23	2.02	0.42
1:A:1319:TRP:HE3	1:A:1320:HIS:HA	1.85	0.42
1:A:494:PHE:CE2	1:A:630:TYR:CE1	3.07	0.42
1:A:625:PHE:O	1:A:627:PRO:HD3	2.20	0.42
1:C:160:LEU:HD23	1:C:297:ARG:CZ	2.49	0.42
1:C:240:LEU:N	1:C:240:LEU:HD22	2.35	0.42
1:C:957:ASN:HB2	1:C:960:PHE:HB2	2.01	0.42
2:B:2963:CYS:HG	2:B:3093:LEU:HD11	1.85	0.42
2:B:1757:TRP:HE1	2:B:1763:ARG:CZ	2.33	0.42
1:A:1195:ILE:HG23	1:A:1196:THR:N	2.33	0.42
1:C:1158:LYS:HG3	1:C:1173:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1142:PHE:CZ	1:C:1234:VAL:CG2	3.02	0.42
2:B:3309:GLY:HA2	2:B:3339:MET:CE	2.49	0.42
2:B:3340:LEU:CG	2:B:3341:ASN:N	2.82	0.42
2:D:2401:PHE:CZ	2:D:2460:ILE:HG12	2.53	0.42
1:C:901:PHE:HB3	1:C:902:PRO:CD	2.44	0.42
2:B:2401:PHE:CG	2:B:2402:GLN:N	2.86	0.42
1:A:900:VAL:CG1	1:A:1081:LEU:CD1	2.95	0.42
2:D:3090:MET:HG2	2:D:3090:MET:O	2.20	0.42
2:B:2910:LYS:HG2	2:B:3175:ASP:HB3	2.02	0.42
1:A:1095:VAL:CG1	1:A:1099:HIS:CE1	3.02	0.42
1:A:723:GLN:HG3	1:A:826:ARG:NH2	2.30	0.42
1:C:1313:MET:CE	1:C:1595:MET:CE	2.98	0.42
1:A:1313:MET:CE	1:A:1595:MET:CE	2.98	0.42
1:A:1146:PHE:N	1:A:1190:VAL:CG1	2.83	0.42
1:A:316:ALA:O	1:A:343:VAL:HG22	2.20	0.42
2:D:3020:PHE:CE2	2:D:3021:LYS:CD	3.02	0.42
1:A:250:TRP:CZ3	1:A:252:ASP:CB	2.98	0.42
2:B:3200:VAL:HG13	2:B:3254:ILE:CD1	2.50	0.42
1:C:229:LYS:HG2	1:C:230:ASP:N	2.34	0.42
1:A:32:SER:CB	1:A:37:LYS:HG3	2.50	0.42
1:C:1554:LEU:CD1	1:C:1602:LEU:CD2	2.97	0.42
1:C:1554:LEU:CD1	1:C:1602:LEU:HD22	2.50	0.42
1:C:891:PHE:CG	1:C:1183:MET:HG2	2.54	0.42
1:C:953:VAL:O	1:C:953:VAL:HG13	2.19	0.42
2:B:2856:LEU:HD13	2:B:2862:PHE:CB	2.49	0.42
2:B:2064:SER:C	2:B:2065:ILE:HD12	2.40	0.42
1:C:1485:LEU:CD1	1:C:1485:LEU:H	2.33	0.42
1:C:994:GLN:HE21	1:C:994:GLN:HA	1.84	0.42
2:B:1993:CYS:HA	2:B:1999:CYS:HA	2.01	0.42
2:D:2103:LEU:HD22	2:D:2106:LEU:HD12	2.02	0.42
2:B:2106:LEU:HD21	2:B:2161:LEU:HA	2.02	0.42
2:B:2168:VAL:CG2	2:B:2169:ALA:N	2.82	0.42
2:B:2258:VAL:CG1	2:B:2259:MET:N	2.83	0.42
2:B:2388:PHE:N	2:B:2432:LEU:CD1	2.82	0.42
2:D:1714:PRO:HG2	2:D:1922:TYR:CD2	2.35	0.42
2:D:2542:HIS:HB2	2:D:2692:THR:HB	2.02	0.42
1:C:1265:LEU:HD22	1:C:1265:LEU:H	1.85	0.42
1:C:1324:VAL:CG1	1:C:1325:VAL:N	2.83	0.42
1:C:1319:TRP:CD1	1:C:1490:LEU:CG	3.03	0.42
1:C:579:PHE:CD1	1:C:579:PHE:C	2.93	0.42
1:C:697:VAL:CG2	1:C:698:LEU:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:ASN:O	1:A:200:THR:HB	2.19	0.42
1:A:1265:LEU:CB	1:A:1270:LEU:HD21	2.46	0.42
1:A:1427:LEU:CB	1:A:1454:HIS:CE1	3.03	0.42
1:A:452:VAL:CG2	1:A:453:ASP:N	2.82	0.42
1:A:469:PRO:HB2	1:A:473:ALA:CB	2.50	0.42
1:A:558:THR:HA	1:A:626:ASP:OD2	2.20	0.42
1:C:135:THR:HG21	1:C:203:ASP:OD1	2.20	0.42
1:C:160:LEU:CD2	1:C:293:TYR:HE2	2.32	0.42
1:C:70:ARG:HD3	1:C:267:LEU:CD1	2.40	0.42
2:D:3264:THR:HG22	2:D:3265:ASP:N	2.35	0.42
2:D:3340:LEU:CB	2:D:3377:THR:CG2	2.93	0.42
1:C:1115:GLU:HG3	1:C:1116:TYR:H	1.85	0.42
2:B:3109:LEU:HD23	2:B:3112:ILE:HD12	2.01	0.42
2:D:1850:VAL:CG2	2:D:1851:HIS:N	2.83	0.42
2:D:1852:THR:CG2	2:D:1853:TRP:N	2.83	0.42
2:B:3327:MET:CG	2:B:3328:PHE:N	2.82	0.42
2:B:3388:ASN:OD1	2:B:3390:ARG:CD	2.68	0.42
1:A:462:HIS:CE1	1:A:623:THR:CG2	3.03	0.42
2:D:2999:TRP:HH2	2:D:3074:LEU:CD1	2.32	0.42
1:A:894:CYS:SG	1:A:896:HIS:NE2	2.89	0.42
1:A:605:ILE:CG1	1:A:632:HIS:CE1	3.02	0.42
1:A:734:LEU:CD1	1:A:734:LEU:N	2.83	0.42
1:A:910:VAL:HG21	1:A:1112:PHE:CE2	2.54	0.42
2:D:2645:PHE:O	2:D:2648:ARG:HG2	2.19	0.42
1:C:1136:ILE:CG2	1:C:1137:LYS:N	2.82	0.42
1:C:989:THR:CG2	1:C:990:SER:N	2.82	0.42
1:C:318:VAL:HG22	1:C:319:PHE:N	2.34	0.42
1:A:972:THR:CG2	1:A:973:ARG:N	2.82	0.42
1:A:1560:THR:CG2	1:A:1561:SER:N	2.81	0.42
2:D:2760:GLU:HG2	2:D:2763:ARG:HG3	2.01	0.42
1:C:1575:HIS:CB	2:D:2783:HIS:HB2	2.49	0.42
2:D:2813:VAL:HG23	2:D:2823:ALA:HB2	2.01	0.42
2:B:2812:ASP:HB2	2:B:2821:HIS:O	2.19	0.42
2:D:3195:ARG:NH1	2:D:3295:ARG:HE	2.12	0.42
1:A:99:THR:CG2	1:A:100:GLN:N	2.82	0.42
2:D:2462:VAL:CG2	2:D:2463:SER:N	2.83	0.42
2:B:2659:PHE:HD1	2:B:2711:TRP:CZ3	2.38	0.42
1:A:1252:VAL:HG23	1:A:1253:THR:N	2.34	0.42
1:A:1661:HIS:CE1	1:A:1663:GLU:HG2	2.54	0.42
2:D:2289:ILE:CD1	2:D:2289:ILE:N	2.83	0.42
2:B:2258:VAL:CG2	2:B:2416:ILE:CG2	2.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2289:ILE:CD1	2:B:2289:ILE:H	2.33	0.42
2:B:2416:ILE:CG2	2:B:2417:PHE:N	2.82	0.42
2:B:2427:TRP:HZ3	2:B:2429:TYR:CD2	2.38	0.42
2:B:1924:LEU:N	2:B:1924:LEU:CD2	2.83	0.42
1:C:1286:TYR:HA	1:C:1289:ILE:HG12	2.02	0.42
1:C:426:LYS:O	1:C:512:PRO:HA	2.20	0.42
1:A:122:TYR:CD1	1:A:122:TYR:N	2.82	0.42
1:A:1254:SER:N	1:A:1522:ALA:HB2	2.35	0.42
1:A:495:VAL:CG1	1:A:496:THR:N	2.83	0.42
1:A:530:LYS:HA	1:A:545:HIS:CD2	2.55	0.42
1:A:552:GLU:HB2	1:A:554:ASN:OD1	2.20	0.42
1:C:213:VAL:CG2	1:C:214:ASP:N	2.83	0.42
2:D:3287:LEU:CB	2:D:3288:PRO:CA	2.97	0.42
2:D:3349:PHE:CG	2:D:3375:PHE:CE1	3.08	0.42
1:C:853:LEU:N	1:C:921:TYR:CD1	2.88	0.42
1:C:857:LEU:HD12	1:C:860:LEU:HD22	2.01	0.42
1:A:1403:GLN:HE22	1:A:1605:LEU:HD21	1.79	0.42
2:B:2946:HIS:CD2	2:B:2963:CYS:HG	2.35	0.42
2:B:3042:GLN:HG3	2:B:3043:THR:N	2.35	0.42
2:B:2965:HIS:CE1	2:B:3093:LEU:CD1	3.03	0.42
2:D:1804:ARG:NH1	2:D:1873:LEU:HD22	2.35	0.42
2:B:1770:LEU:HD22	2:B:1873:LEU:CD1	2.50	0.42
2:B:1881:THR:O	2:B:1884:ILE:HG12	2.20	0.42
2:D:1734:HIS:CD2	2:D:1878:HIS:CD2	3.08	0.42
2:B:3217:VAL:HG11	2:B:3252:PHE:CE2	2.55	0.42
2:B:3248:ARG:CZ	2:B:3320:VAL:CG2	2.94	0.42
1:A:516:TRP:CD1	1:A:605:ILE:HD12	2.54	0.42
1:A:604:THR:CG2	1:A:605:ILE:N	2.83	0.42
2:B:2931:GLN:HA	2:B:2939:TYR:HB3	2.02	0.42
1:C:486:ILE:CG2	1:C:487:PHE:N	2.82	0.42
1:C:402:VAL:HG13	1:C:402:VAL:O	2.19	0.42
1:A:1115:GLU:HG3	1:A:1116:TYR:H	1.85	0.42
2:D:2230:THR:HB	2:D:2233:HIS:H	1.85	0.42
2:D:2144:PRO:CG	2:D:2318:ALA:HB2	2.31	0.42
1:A:747:ILE:HD13	1:A:785:LEU:HD21	2.02	0.42
1:C:226:LEU:CD2	1:C:291:LYS:CE	2.95	0.42
1:C:316:ALA:O	1:C:343:VAL:HG22	2.20	0.42
2:D:3076:ASN:HB3	2:D:3236:LEU:HD13	1.98	0.42
2:D:3217:VAL:HG23	2:D:3273:ASP:OD1	2.20	0.42
2:D:2723:ASP:O	2:D:2759:PHE:CG	2.73	0.42
1:A:1380:THR:HG23	1:A:1381:HIS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2132:HIS:HE2	2:B:2134:ASN:HB2	1.82	0.42
2:D:1689:MET:HE3	2:D:1698:PHE:CD1	2.49	0.42
2:D:1689:MET:HE2	2:D:1698:PHE:CD1	2.54	0.42
2:D:3029:GLN:NE2	2:D:3088:TYR:HB3	2.35	0.42
2:D:3279:HIS:HD2	2:D:3280:THR:HG23	1.80	0.42
2:D:1679:GLN:O	2:D:1683:VAL:HG12	2.20	0.42
2:D:2886:VAL:HG12	2:D:2887:GLU:N	2.35	0.42
1:C:257:LEU:CD1	1:C:261:HIS:CE1	3.03	0.42
2:D:2467:VAL:CG1	2:D:2468:ASN:N	2.82	0.42
1:C:984:GLU:CG	1:C:985:PHE:N	2.82	0.42
2:D:1993:CYS:HA	2:D:1999:CYS:HA	2.01	0.42
2:D:2106:LEU:HD21	2:D:2161:LEU:HA	2.02	0.41
2:D:2115:PHE:CE1	2:D:2157:PHE:HE2	2.38	0.41
2:D:2220:VAL:CG1	2:D:2221:GLN:N	2.82	0.41
2:D:2268:GLY:HA2	2:D:2274:SER:HB2	2.01	0.41
2:D:2141:HIS:CE1	2:D:2278:LEU:CD1	3.03	0.41
2:B:2115:PHE:CE1	2:B:2157:PHE:HE2	2.38	0.41
2:B:2559:CYS:CB	2:B:2561:HIS:CE1	3.03	0.41
2:D:2542:HIS:CE1	2:D:2691:THR:CG2	3.03	0.41
1:C:1275:ALA:HA	1:C:1278:LEU:HD23	2.02	0.41
1:C:1464:ILE:CD1	1:C:1526:LEU:CB	2.98	0.41
1:C:469:PRO:HB2	1:C:473:ALA:CB	2.50	0.41
1:C:547:SER:N	1:C:558:THR:HG21	2.35	0.41
1:C:557:HIS:HB3	1:C:613:GLU:CD	2.40	0.41
1:A:5:ARG:NH1	1:A:89:LEU:CD1	2.76	0.41
2:B:2570:HIS:HD2	2:B:2701:HIS:CD2	2.38	0.41
1:A:1286:TYR:HA	1:A:1289:ILE:HG12	2.02	0.41
1:A:1365:ARG:H	1:A:1365:ARG:CD	2.22	0.41
1:A:443:PHE:HD2	1:A:505:ARG:HH12	1.66	0.41
2:D:3340:LEU:CG	2:D:3341:ASN:N	2.82	0.41
2:D:3375:PHE:CE1	2:D:3390:ARG:O	2.73	0.41
1:C:1112:PHE:CB	1:C:1114:TYR:CD2	3.03	0.41
1:C:860:LEU:HD23	1:C:860:LEU:C	2.41	0.41
1:A:1549:VAL:CG1	1:A:1611:LEU:HD12	2.37	0.41
2:D:1672:THR:CG2	2:D:1673:GLN:N	2.83	0.41
2:D:1757:TRP:CZ2	2:D:1763:ARG:CZ	3.02	0.41
2:D:1789:ILE:CG2	2:D:1790:GLY:N	2.82	0.41
2:B:1809:ASP:O	2:B:1812:PHE:CD2	2.73	0.41
1:A:1231:GLN:HA	1:A:1231:GLN:HE21	1.83	0.41
2:D:1874:PHE:CG	2:D:1878:HIS:CE1	3.08	0.41
2:B:3217:VAL:HG23	2:B:3273:ASP:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3347:ALA:CB	2:D:3315:PRO:HG3	2.40	0.41
1:C:901:PHE:C	1:C:901:PHE:CD1	2.93	0.41
2:B:1909:MET:SD	2:B:1934:PRO:HB2	2.60	0.41
1:A:490:TRP:CA	1:A:667:LEU:HD13	2.49	0.41
2:D:2931:GLN:HA	2:D:2939:TYR:HB3	2.02	0.41
1:C:745:ILE:CG2	1:C:757:ALA:HB3	2.34	0.41
1:A:365:THR:CG2	1:A:366:VAL:N	2.82	0.41
1:A:921:TYR:CD2	1:A:923:GLY:O	2.73	0.41
1:C:412:PRO:HG2	1:C:654:TYR:CB	2.45	0.41
1:C:1300:GLN:HE22	1:C:1306:ILE:N	2.18	0.41
1:A:1430:LEU:N	1:A:1430:LEU:CD1	2.83	0.41
1:A:1121:PHE:CE2	1:A:1122:ASN:ND2	2.88	0.41
2:B:1817:LYS:C	2:D:1676:LYS:HE2	2.36	0.41
1:C:1190:VAL:CG1	1:C:1191:PHE:N	2.82	0.41
1:C:1657:THR:HA	2:D:1901:GLU:OE2	2.19	0.41
2:B:1936:ASP:HA	2:B:1942:LYS:HZ2	1.84	0.41
1:C:769:MET:CA	1:C:769:MET:CE	2.95	0.41
2:D:1816:THR:CG2	2:D:1817:LYS:N	2.83	0.41
2:D:2734:ARG:O	2:D:2755:PRO:HD2	2.20	0.41
1:A:503:VAL:CG2	1:A:504:GLY:N	2.83	0.41
1:A:1124:LEU:HD11	1:A:1132:LYS:HD3	2.01	0.41
2:D:2854:MET:O	2:D:2855:HIS:HB2	2.20	0.41
1:A:805:VAL:CG1	1:A:806:ASP:N	2.83	0.41
1:A:307:PHE:CE2	1:A:399:PRO:HG3	2.55	0.41
2:B:1946:ILE:CG1	2:B:1947:TYR:N	2.83	0.41
2:D:2659:PHE:HD1	2:D:2711:TRP:CZ3	2.38	0.41
2:D:2268:GLY:HA3	2:D:2276:SER:HB3	2.01	0.41
2:B:1721:ALA:HB2	2:B:2012:LYS:HB2	2.02	0.41
2:B:1924:LEU:HB3	2:D:2094:ARG:CD	2.50	0.41
2:B:2688:LEU:HA	2:B:2829:LEU:HD11	2.02	0.41
1:C:1283:ASP:OD2	1:C:1334:LYS:HD2	2.20	0.41
1:C:1277:PHE:CD2	1:C:1373:PRO:CB	3.02	0.41
1:C:1464:ILE:HD13	1:C:1526:LEU:HD22	2.02	0.41
1:C:426:LYS:HB3	1:C:430:ASP:OD1	2.19	0.41
1:C:433:ARG:CA	1:C:436:VAL:HG12	2.50	0.41
1:C:645:ALA:HB1	1:C:712:LEU:HD13	2.01	0.41
1:A:194:MET:HA	1:A:200:THR:CB	2.50	0.41
1:A:18:ASP:OD1	1:A:85:ARG:HA	2.20	0.41
1:A:94:TRP:HD1	1:A:155:LEU:CD2	2.16	0.41
1:A:1362:TYR:HE2	1:A:1364:SER:CB	2.33	0.41
1:A:435:GLU:HA	1:A:438:ASN:OD1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:426:LYS:O	1:A:512:PRO:HA	2.20	0.41
1:A:644:GLN:NE2	1:A:694:TYR:HE1	2.18	0.41
1:C:1075:THR:CG2	1:C:1076:SER:N	2.82	0.41
1:A:1216:VAL:HG23	1:A:1224:LEU:CB	2.45	0.41
2:D:1909:MET:SD	2:D:1934:PRO:HB2	2.60	0.41
2:B:3346:THR:CA	2:B:3349:PHE:CD2	2.94	0.41
1:C:1228:LEU:N	1:C:1228:LEU:CD2	2.82	0.41
2:D:2946:HIS:CE1	2:D:3093:LEU:CD1	3.03	0.41
2:D:3074:LEU:O	2:D:3074:LEU:HD13	2.20	0.41
2:D:2504:VAL:HG12	2:D:2506:LYS:HG3	2.01	0.41
1:A:516:TRP:CD1	1:A:605:ILE:CD1	3.03	0.41
1:A:598:PHE:HZ	1:A:636:VAL:HG13	1.82	0.41
2:D:2996:TYR:CE1	2:D:3175:ASP:OD1	2.73	0.41
2:B:2627:THR:CG2	2:B:2681:THR:CG2	2.94	0.41
2:B:2939:TYR:HE1	2:B:2981:PHE:CE1	2.36	0.41
1:A:1300:GLN:HE22	1:A:1306:ILE:N	2.18	0.41
1:A:930:TRP:CD2	1:A:1018:ILE:HG12	2.55	0.41
1:A:999:LEU:HD13	1:A:1129:LEU:CD2	2.45	0.41
2:B:1964:VAL:CG2	2:B:1965:ARG:N	2.83	0.41
1:C:1121:PHE:CE2	1:C:1122:ASN:ND2	2.88	0.41
1:C:1555:LEU:HD22	1:C:1555:LEU:N	2.34	0.41
2:B:2723:ASP:O	2:B:2759:PHE:CG	2.73	0.41
2:B:3128:HIS:CD2	2:B:3129:ALA:H	2.38	0.41
2:B:3031:THR:HG21	2:B:3099:ASP:CB	2.50	0.41
1:A:1228:LEU:N	1:A:1228:LEU:CD2	2.82	0.41
1:A:33:ILE:O	1:A:38:ILE:HD11	2.19	0.41
2:B:2607:THR:CG2	2:B:2608:ASP:N	2.83	0.41
1:C:953:VAL:O	1:C:955:LYS:HE2	2.20	0.41
1:A:1169:HIS:HB2	1:A:1202:LEU:HD21	2.02	0.41
1:C:788:LEU:CB	1:C:790:LEU:HG	2.44	0.41
2:B:2743:ILE:CG2	2:B:2744:ASN:N	2.82	0.41
1:C:717:LYS:HZ1	1:C:831:LYS:HE3	1.84	0.41
2:D:2793:ARG:O	2:D:2889:SER:N	2.52	0.41
2:D:2406:THR:CG2	2:D:2407:SER:N	2.83	0.41
2:D:2141:HIS:CE1	2:D:2278:LEU:HD11	2.55	0.41
2:D:2307:LYS:NZ	2:D:2372:GLU:HB3	2.35	0.41
2:B:2150:HIS:CD2	2:B:2291:HIS:NE2	2.88	0.41
2:B:2217:VAL:CG1	2:B:2218:ARG:N	2.82	0.41
2:B:2220:VAL:CG1	2:B:2221:GLN:N	2.82	0.41
2:B:2307:LYS:NZ	2:B:2372:GLU:HB3	2.35	0.41
2:B:2194:VAL:CA	2:D:1921:PRO:HB3	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2688:LEU:CD1	2:B:2829:LEU:HD11	2.49	0.41
2:B:2542:HIS:CE1	2:B:2691:THR:CG2	3.03	0.41
1:C:875:PHE:CD2	1:C:1083:PRO:HG2	2.56	0.41
1:C:1427:LEU:CB	1:C:1454:HIS:CE1	3.03	0.41
1:C:435:GLU:HA	1:C:438:ASN:OD1	2.19	0.41
1:C:498:VAL:CG1	1:C:499:GLU:N	2.83	0.41
1:C:517:THR:O	1:C:576:THR:HG21	2.20	0.41
1:C:546:SER:HA	1:C:558:THR:CB	2.50	0.41
1:C:644:GLN:NE2	1:C:694:TYR:HE1	2.18	0.41
1:A:159:VAL:HG21	1:A:282:LEU:HD21	2.01	0.41
1:A:73:VAL:HB	1:A:89:LEU:HD13	2.02	0.41
1:A:1283:ASP:OD2	1:A:1334:LYS:HD2	2.20	0.41
1:A:1464:ILE:HD13	1:A:1526:LEU:HD22	2.02	0.41
1:A:511:ILE:HA	1:A:512:PRO:HD2	1.82	0.41
1:A:579:PHE:C	1:A:579:PHE:CD1	2.93	0.41
1:A:498:VAL:CB	1:A:630:TYR:CE1	2.99	0.41
1:C:86:THR:CG2	1:C:87:SER:N	2.82	0.41
2:D:1881:THR:O	2:D:1884:ILE:HG12	2.20	0.41
1:C:1216:VAL:HG13	1:C:1226:LYS:CE	2.50	0.41
2:D:1732:GLN:O	2:D:1736:LEU:HD13	2.20	0.41
2:D:3045:PHE:O	2:D:3045:PHE:CD2	2.74	0.41
2:D:2030:LEU:N	2:D:2030:LEU:HD12	2.35	0.41
2:D:2000:GLU:CG	2:D:2033:MET:SD	3.08	0.41
1:C:566:LEU:HA	1:C:566:LEU:HD13	1.92	0.41
1:C:485:PRO:HA	1:C:595:GLU:HG3	2.03	0.41
1:A:909:THR:CG2	1:A:910:VAL:N	2.83	0.41
1:C:589:GLU:O	1:C:652:LYS:HE3	2.19	0.41
2:D:2700:HIS:O	2:D:2704:THR:HG23	2.20	0.41
2:D:3274:LEU:HD12	2:D:3276:LYS:HE3	2.01	0.41
2:B:2700:HIS:O	2:B:2704:THR:HG23	2.20	0.41
2:D:1963:ILE:CG2	2:D:1964:VAL:N	2.83	0.41
1:A:1228:LEU:CD2	1:A:1229:PHE:N	2.83	0.41
2:D:2607:THR:CG2	2:D:2608:ASP:N	2.83	0.41
1:A:1380:THR:CG2	1:A:1381:HIS:N	2.82	0.41
2:B:1686:LEU:HD12	2:B:1689:MET:HE2	2.02	0.41
1:C:503:VAL:CG2	1:C:504:GLY:N	2.83	0.41
1:C:225:GLU:CD	1:C:231:PRO:HG3	2.41	0.41
2:D:3029:GLN:CD	2:D:3088:TYR:CG	2.93	0.41
2:B:2854:MET:HB2	2:B:2856:LEU:HG	2.02	0.41
2:B:1679:GLN:O	2:B:1683:VAL:HG12	2.20	0.41
2:B:1833:GLN:HG2	2:B:1838:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1828:LEU:HD23	2:D:1828:LEU:C	2.40	0.41
2:B:2815:ASN:C	2:B:2815:ASN:OD1	2.59	0.41
1:C:592:CYS:HB2	1:C:775:ARG:HH12	1.85	0.41
1:C:1350:GLU:HA	1:C:1396:HIS:CE1	2.54	0.41
2:D:3128:HIS:CD2	2:D:3129:ALA:H	2.38	0.41
2:D:2308:ARG:HH21	2:D:2375:ILE:HD12	1.83	0.41
2:B:2155:LEU:HD11	2:B:2356:TYR:CD1	2.55	0.41
2:D:1721:ALA:HB2	2:D:2012:LYS:HB3	2.02	0.41
2:D:1741:PHE:CE2	2:D:1875:TYR:CE1	3.08	0.41
2:D:1914:LYS:CG	2:D:1918:PHE:CE1	2.95	0.41
1:C:1262:ILE:HD11	1:C:1353:PRO:HB3	2.03	0.41
1:C:1362:TYR:HE2	1:C:1364:SER:CB	2.33	0.41
1:C:1457:THR:CG2	1:C:1458:THR:N	2.83	0.41
1:C:526:LEU:CD2	1:C:544:PHE:CD2	3.04	0.41
1:A:86:THR:CG2	1:A:87:SER:N	2.82	0.41
1:A:97:PRO:HB2	1:A:146:LYS:HA	2.02	0.41
1:A:1261:ASN:HD22	1:A:1263:GLU:HB2	1.86	0.41
1:A:1457:THR:CG2	1:A:1458:THR:N	2.83	0.41
1:A:492:ARG:O	1:A:496:THR:HG23	2.19	0.41
1:A:517:THR:O	1:A:576:THR:HG21	2.20	0.41
1:A:443:PHE:CD1	1:A:543:PRO:CB	3.03	0.41
1:C:270:TYR:CA	1:C:273:LEU:HD13	2.48	0.41
1:C:159:VAL:HG21	1:C:282:LEU:HD21	2.01	0.41
1:C:946:TYR:N	1:C:957:ASN:HD21	2.18	0.41
2:B:2946:HIS:CE1	2:B:3093:LEU:CD1	3.03	0.41
2:B:3045:PHE:O	2:B:3045:PHE:CD2	2.74	0.41
2:D:1809:ASP:O	2:D:1812:PHE:CD2	2.73	0.41
2:B:1811:LEU:HG	2:B:1853:TRP:CE3	2.52	0.41
2:B:1850:VAL:HG21	2:B:1877:HIS:NE2	2.34	0.41
1:A:1158:LYS:HG3	1:A:1173:GLU:CG	2.49	0.41
2:B:1734:HIS:CD2	2:B:1878:HIS:CD2	3.08	0.41
1:C:1195:ILE:HG23	1:C:1196:THR:N	2.33	0.41
1:C:895:VAL:O	1:C:901:PHE:CD2	2.74	0.41
2:B:2401:PHE:HD2	2:B:2413:GLY:CA	2.22	0.41
2:D:2973:TRP:HE3	2:D:2974:HIS:HD2	1.66	0.41
2:D:2045:VAL:CG1	2:D:2046:THR:N	2.83	0.41
2:B:2030:LEU:HD12	2:B:2030:LEU:N	2.35	0.41
2:B:2030:LEU:O	2:B:2033:MET:HB2	2.21	0.41
1:A:901:PHE:CD1	1:A:901:PHE:C	2.93	0.41
1:A:566:LEU:HD22	1:A:566:LEU:H	1.85	0.41
1:C:1613:LYS:O	2:D:2779:LYS:CE	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2915:LEU:HA	2:B:2915:LEU:HD23	1.90	0.41
1:A:946:TYR:N	1:A:957:ASN:HD21	2.18	0.41
2:B:2230:THR:HB	2:B:2233:HIS:H	1.85	0.41
1:C:728:ILE:HG12	1:C:822:ARG:HG3	2.02	0.41
1:A:1018:ILE:CG1	1:A:1045:HIS:CE1	3.03	0.41
1:C:992:ALA:HA	1:C:995:VAL:HG22	2.01	0.41
2:D:2064:SER:C	2:D:2065:ILE:HD12	2.40	0.41
2:D:3383:LEU:HD13	2:D:3383:LEU:C	2.39	0.41
2:D:2568:HIS:CE1	2:D:2732:MET:CE	3.02	0.41
1:A:687:MET:HB3	1:A:689:ASN:OD1	2.21	0.41
2:B:2127:LYS:CE	2:B:2333:ILE:CD1	2.95	0.41
2:D:2948:TYR:HA	2:D:2949:PRO:C	2.41	0.41
1:C:912:SER:CB	1:C:1043:TYR:CE1	3.00	0.41
1:A:717:LYS:HZ1	1:A:831:LYS:HE3	1.85	0.41
2:D:1690:LYS:HB3	2:D:1690:LYS:NZ	2.36	0.41
1:A:984:GLU:CG	1:A:985:PHE:N	2.83	0.41
2:D:2140:ILE:HG21	2:D:2145:THR:CB	2.50	0.41
2:D:2150:HIS:CD2	2:D:2291:HIS:NE2	2.88	0.41
2:D:2155:LEU:HG	2:D:2354:LEU:CD1	2.48	0.41
2:D:2170:VAL:HG12	2:D:2171:PRO:O	2.21	0.41
2:D:2286:ILE:CG2	2:D:2287:PHE:N	2.83	0.41
2:D:2244:LEU:CD1	2:D:2304:LEU:CD2	2.94	0.41
2:D:2155:LEU:HD11	2:D:2356:TYR:CD1	2.55	0.41
2:B:2085:ARG:HG2	2:B:2169:ALA:HB1	2.02	0.41
2:B:2258:VAL:HG21	2:B:2416:ILE:CG2	2.51	0.41
2:D:1741:PHE:CZ	2:D:1875:TYR:HE1	2.38	0.41
1:C:1082:GLN:HB3	1:C:1086:LEU:HD11	2.02	0.41
1:C:1086:LEU:HD22	1:C:1090:ILE:HG21	2.02	0.41
1:C:1289:ILE:HG13	1:C:1290:ALA:N	2.35	0.41
1:C:443:PHE:CD1	1:C:543:PRO:CB	3.03	0.41
1:C:530:LYS:HA	1:C:545:HIS:CD2	2.55	0.41
1:C:715:ILE:CG2	1:C:716:GLU:N	2.83	0.41
1:A:19:LEU:HB2	1:A:85:ARG:NE	2.34	0.41
1:A:1265:LEU:HD22	1:A:1265:LEU:H	1.85	0.41
1:A:1289:ILE:HG13	1:A:1290:ALA:N	2.35	0.41
1:A:1262:ILE:HD11	1:A:1353:PRO:HB3	2.02	0.41
1:A:676:LEU:HG	1:A:1365:ARG:CA	2.34	0.41
1:A:498:VAL:CG1	1:A:499:GLU:N	2.83	0.41
1:C:97:PRO:CG	1:C:153:THR:HG21	2.49	0.41
1:C:197:LEU:CD2	1:C:344:LEU:HD12	2.40	0.41
1:A:1641:ILE:O	1:A:1641:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2970:PHE:CZ	2:B:2974:HIS:CE1	3.09	0.41
2:D:1811:LEU:HG	2:D:1853:TRP:CE3	2.52	0.41
2:B:1847:HIS:ND1	2:B:1877:HIS:NE2	2.68	0.41
1:C:1162:CYS:HA	1:C:1168:CYS:HA	2.02	0.41
2:B:3293:VAL:HG12	2:B:3305:GLU:OE2	2.21	0.41
2:B:3328:PHE:CE1	2:B:3363:LEU:O	2.74	0.41
1:C:623:THR:HG1	1:C:629:PHE:HD1	1.64	0.41
2:D:2401:PHE:CE1	2:D:2402:GLN:O	2.74	0.41
2:D:3177:LEU:CD2	2:D:3184:ILE:HG23	2.44	0.41
2:B:2000:GLU:CG	2:B:2033:MET:SD	3.08	0.41
2:B:2045:VAL:CG1	2:B:2046:THR:N	2.83	0.41
1:A:895:VAL:O	1:A:901:PHE:CD2	2.74	0.41
1:A:566:LEU:CD2	1:A:566:LEU:N	2.83	0.41
1:C:578:LEU:N	1:C:578:LEU:CD2	2.84	0.41
2:D:2621:TYR:HE2	2:D:2693:TYR:OH	2.04	0.41
1:A:860:LEU:C	1:A:860:LEU:HD23	2.41	0.41
2:B:2148:HIS:HD2	2:B:2348:VAL:CG2	2.34	0.41
1:A:796:PHE:HZ	1:A:820:VAL:HG21	1.85	0.41
1:A:1136:ILE:CG2	1:A:1137:LYS:N	2.82	0.41
1:C:991:ILE:HD11	1:C:995:VAL:CG1	2.51	0.41
1:C:1413:PHE:O	1:C:1416:PHE:HB3	2.21	0.41
2:D:3062:ASP:O	2:D:3063:ASN:HB3	2.20	0.41
2:D:2673:ILE:CG1	2:D:2700:HIS:CE1	3.04	0.41
2:D:1761:LEU:HG	2:D:1762:PRO:N	2.35	0.41
2:D:3211:THR:CG2	2:D:3212:THR:N	2.81	0.41
2:D:2148:HIS:HD2	2:D:2348:VAL:CG2	2.34	0.41
2:B:1943:PHE:HB2	2:B:1945:TYR:CE2	2.56	0.41
2:B:3140:PRO:HB2	2:B:3145:ASN:ND2	2.35	0.41
2:B:2383:ARG:NE	2:B:2385:PHE:HZ	2.17	0.41
1:A:219:ILE:O	1:A:223:LEU:HD23	2.20	0.41
2:D:3200:VAL:HG13	2:D:3254:ILE:CD1	2.50	0.41
1:C:1063:ARG:HG2	1:C:1065:LYS:HE2	2.03	0.41
1:A:225:GLU:CD	1:A:231:PRO:HG3	2.41	0.41
2:D:2959:LYS:HZ1	2:D:3240:LYS:HE2	1.84	0.41
2:B:3208:GLY:CA	2:B:3244:TRP:CE2	3.02	0.41
1:A:1485:LEU:CD1	1:A:1485:LEU:H	2.33	0.41
1:C:1529:ASN:CB	1:C:1531:TYR:CE2	3.03	0.41
2:B:3034:ASP:O	2:B:3084:GLY:HA3	2.20	0.41
2:D:2803:ILE:HB	2:D:2880:LEU:HD13	2.03	0.41
2:B:2803:ILE:HB	2:B:2880:LEU:HD13	2.03	0.41
2:D:2224:LEU:CD2	2:D:2225:PHE:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2303:ALA:HB1	2:D:2368:LEU:HD13	2.03	0.41
2:B:2083:LYS:HG2	2:B:2169:ALA:CB	2.31	0.41
2:B:2140:ILE:HG21	2:B:2145:THR:CB	2.50	0.41
2:B:2175:TRP:CD1	2:B:2236:LEU:HG	2.43	0.41
2:B:2156:GLN:CD	2:B:2334:ASN:HD21	2.23	0.41
2:B:2191:TYR:CE2	2:B:2193:ASP:O	2.74	0.41
2:D:1701:ILE:HA	2:D:1704:PHE:CD1	2.55	0.41
2:B:2542:HIS:HB2	2:B:2692:THR:HB	2.03	0.41
1:C:1311:HIS:CE1	1:C:1442:LEU:CD2	3.03	0.41
1:C:1280:ILE:HB	1:C:1334:LYS:HG3	2.02	0.41
1:C:1254:SER:CB	1:C:1521:TYR:C	2.88	0.41
1:C:1533:ILE:CB	1:C:1534:PRO:HD3	2.39	0.41
1:C:440:ARG:HG3	1:C:543:PRO:HD2	2.03	0.41
1:C:552:GLU:OE1	1:C:615:PHE:CE1	2.74	0.41
1:C:576:THR:HG23	1:C:579:PHE:N	2.35	0.41
1:C:625:PHE:O	1:C:627:PRO:HD3	2.20	0.41
1:C:628:LEU:HD12	1:C:631:PHE:HB2	2.03	0.41
1:A:59:ILE:O	1:A:65:PHE:CD2	2.74	0.41
1:A:72:TYR:CE2	1:A:76:MET:CE	3.04	0.41
1:A:1319:TRP:CD1	1:A:1490:LEU:CG	3.03	0.41
1:A:1280:ILE:HB	1:A:1334:LYS:HG3	2.02	0.41
1:A:1515:TYR:CA	1:A:1519:PHE:HD2	2.25	0.41
1:A:1533:ILE:HA	1:A:1536:LEU:HD23	2.03	0.41
1:A:464:LEU:HD12	1:A:551:PHE:CE1	2.51	0.41
1:A:546:SER:HA	1:A:558:THR:CB	2.50	0.41
1:C:26:LEU:HB2	1:C:83:LYS:CG	2.50	0.41
2:D:3293:VAL:HG12	2:D:3305:GLU:OE2	2.21	0.41
1:A:1567:PHE:HE1	1:A:1610:ALA:CB	2.32	0.41
2:B:3056:LEU:CD1	2:B:3191:LEU:CD2	2.97	0.41
2:B:1672:THR:CG2	2:B:1673:GLN:N	2.83	0.41
1:A:1216:VAL:HG13	1:A:1226:LYS:CE	2.51	0.41
2:B:3220:LYS:HE3	2:B:3272:PHE:HD2	1.85	0.41
1:C:462:HIS:CE1	1:C:623:THR:CG2	3.03	0.41
2:D:2963:CYS:HG	2:D:3093:LEU:HD11	1.85	0.41
2:D:2970:PHE:CZ	2:D:2974:HIS:CE1	3.09	0.41
2:B:1732:GLN:O	2:B:1736:LEU:HD13	2.20	0.41
2:B:1990:PHE:CD2	2:B:2002:ALA:CB	3.03	0.41
1:A:895:VAL:HA	1:A:898:MET:HE1	2.03	0.41
1:A:588:GLN:HE22	1:A:597:GLN:CG	2.33	0.41
1:A:516:TRP:CE3	1:A:605:ILE:HG23	2.55	0.41
2:D:3033:ARG:N	2:D:3033:ARG:HD2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:487:PHE:HD1	1:C:488:PRO:HD3	1.84	0.41
1:C:516:TRP:CE3	1:C:605:ILE:HG23	2.56	0.41
1:C:604:THR:CG2	1:C:605:ILE:N	2.83	0.41
2:D:2471:VAL:CG1	2:D:2472:LEU:N	2.82	0.41
1:A:1112:PHE:CB	1:A:1114:TYR:CD2	3.03	0.41
1:A:943:HIS:CD2	1:A:945:LYS:C	2.90	0.41
1:A:992:ALA:HA	1:A:995:VAL:HG22	2.01	0.41
2:B:2673:ILE:CG1	2:B:2700:HIS:CE1	3.03	0.41
1:C:1034:ARG:CD	1:C:1035:TYR:CE2	3.01	0.41
1:C:1557:ASN:HB3	1:C:1597:PHE:HZ	1.74	0.41
2:B:1945:TYR:C	2:B:1945:TYR:CD1	2.94	0.41
1:C:33:ILE:O	1:C:38:ILE:HD11	2.19	0.41
1:C:620:LEU:HD23	1:C:620:LEU:C	2.41	0.41
1:A:1422:ILE:HA	1:A:1425:ASN:HD21	1.82	0.41
1:A:1205:HIS:HD2	1:A:1207:GLU:CB	2.34	0.41
1:C:219:ILE:O	1:C:223:LEU:HD23	2.20	0.41
2:B:2810:SER:HB3	2:B:2822:PHE:CZ	2.54	0.41
1:A:1063:ARG:HG2	1:A:1065:LYS:HE2	2.03	0.41
1:C:1554:LEU:HG	1:C:1602:LEU:HD23	2.01	0.41
1:A:953:VAL:O	1:A:953:VAL:HG13	2.20	0.41
2:B:2885:THR:CG2	2:B:2886:VAL:N	2.82	0.41
2:D:1987:THR:CG2	2:D:2048:THR:CG2	2.95	0.41
2:D:2815:ASN:OD1	2:D:2815:ASN:C	2.58	0.41
2:B:3006:LEU:H	2:B:3006:LEU:CD1	2.33	0.41
1:C:1531:TYR:CD1	1:C:1535:GLN:NE2	2.87	0.41
1:A:1048:ASN:O	1:A:1051:ARG:HB3	2.20	0.41
2:B:2600:THR:O	2:B:2635:PHE:CE1	2.74	0.41
2:D:2140:ILE:O	2:D:2146:PHE:HD2	2.03	0.41
2:D:2326:MET:HG2	2:D:2329:PHE:HD2	1.85	0.41
2:B:2326:MET:HG2	2:B:2329:PHE:HD2	1.84	0.41
2:B:2356:TYR:CE2	2:B:2358:TYR:CZ	2.96	0.41
2:D:2688:LEU:HA	2:D:2829:LEU:HD11	2.02	0.41
1:C:1254:SER:CB	1:C:1522:ALA:CB	2.88	0.41
1:A:1259:ARG:HH22	1:A:1324:VAL:CG1	2.33	0.41
1:A:1274:ARG:NE	1:A:1361:TYR:CD2	2.89	0.41
1:A:433:ARG:CA	1:A:436:VAL:HG12	2.50	0.41
1:A:574:HIS:O	1:A:576:THR:HG22	2.21	0.41
1:C:194:MET:HA	1:C:200:THR:CB	2.50	0.41
1:C:241:LEU:CD1	1:C:265:ALA:N	2.82	0.41
1:C:59:ILE:O	1:C:65:PHE:CD2	2.74	0.41
1:A:1662:THR:CA	2:B:1893:ARG:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3292:ILE:HD13	2:D:3293:VAL:CA	2.51	0.41
2:D:3340:LEU:HD22	2:D:3377:THR:HG22	1.95	0.41
2:D:3340:LEU:O	2:D:3341:ASN:HB3	2.21	0.41
2:D:3353:VAL:HG22	2:D:3381:THR:CG2	2.42	0.41
1:A:1607:ILE:CD1	1:A:1611:LEU:CD1	2.95	0.41
2:B:1850:VAL:CG2	2:B:1851:HIS:N	2.83	0.41
2:D:1909:MET:HB3	2:D:1935:GLU:CG	2.51	0.41
2:B:3263:LEU:HD22	2:B:3269:LYS:CD	2.48	0.41
2:B:3375:PHE:CE1	2:B:3390:ARG:O	2.73	0.41
1:A:658:CYS:SG	1:A:659:ALA:N	2.93	0.41
1:A:485:PRO:HG2	1:A:662:LEU:CD2	2.49	0.41
1:A:665:MET:O	1:A:688:PRO:HD2	2.20	0.41
2:D:2717:TYR:HD1	2:D:2779:LYS:HZ2	1.63	0.41
1:A:305:ALA:N	1:A:362:LEU:CD1	2.82	0.41
2:B:1705:HIS:CE1	2:B:1865:LEU:CD1	3.03	0.41
2:B:2148:HIS:NE2	2:B:2349:PHE:CZ	2.83	0.41
1:C:781:ILE:HG21	1:C:785:LEU:HD11	2.03	0.41
2:D:2636:ASN:ND2	2:D:2646:PHE:CE2	2.89	0.41
1:C:1430:LEU:CD1	1:C:1430:LEU:N	2.83	0.41
2:B:1955:TRP:HB2	2:B:1960:ILE:HD13	2.02	0.41
1:C:1420:LEU:HD12	1:C:1423:LEU:HD11	2.01	0.41
1:A:1034:ARG:HG3	1:A:1035:TYR:CD2	2.56	0.41
2:D:3223:THR:CG2	2:D:3224:ASP:H	2.19	0.41
2:D:2148:HIS:CD2	2:D:2348:VAL:HG21	2.56	0.41
1:C:687:MET:HB3	1:C:689:ASN:OD1	2.20	0.41
2:D:2956:GLY:C	2:D:2958:GLU:H	2.23	0.41
2:D:3297:ASN:ND2	2:D:3297:ASN:H	2.14	0.41
2:B:2857:GLU:HG2	2:B:2858:TYR:N	2.36	0.41
1:C:101:LEU:H	1:C:101:LEU:HD12	1.85	0.41
2:B:1829:LEU:HD13	2:B:1833:GLN:HE22	1.84	0.41
1:C:1:GLU:CG	1:C:2:ASN:N	2.83	0.41
1:A:1529:ASN:CB	1:A:1531:TYR:CE2	3.03	0.41
2:D:2405:LYS:HG2	2:D:2407:SER:H	1.86	0.41
2:B:2165:GLY:HA2	2:D:1688:SER:HB2	2.02	0.41
2:D:2372:GLU:O	2:D:2375:ILE:HG12	2.20	0.41
2:B:2141:HIS:CE1	2:B:2278:LEU:CD1	3.03	0.41
2:B:2354:LEU:CD1	2:B:2356:TYR:CE1	2.95	0.41
2:B:2372:GLU:O	2:B:2375:ILE:HG12	2.20	0.41
1:A:1082:GLN:HB3	1:A:1086:LEU:HD11	2.02	0.41
2:D:2538:ILE:HB	2:D:2577:MET:SD	2.60	0.41
2:D:2570:HIS:HD2	2:D:2701:HIS:CD2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1262:ILE:HG21	1:A:1453:LEU:HD23	2.03	0.41
1:A:547:SER:N	1:A:558:THR:HG21	2.35	0.41
1:C:121:ASN:OD1	1:C:122:TYR:CD1	2.74	0.41
1:C:97:PRO:HB2	1:C:146:LYS:HA	2.02	0.41
1:C:146:LYS:HZ1	1:C:148:LYS:CE	2.31	0.41
1:C:164:GLU:HB3	1:C:294:LEU:CD1	2.49	0.41
2:D:3269:LYS:HE3	2:D:3269:LYS:C	2.41	0.41
1:C:943:HIS:CE1	1:C:946:TYR:CE2	3.09	0.41
1:A:1161:ILE:HG13	1:A:1212:ILE:HG22	2.03	0.41
2:B:1874:PHE:CG	2:B:1878:HIS:CE1	3.08	0.41
1:C:1161:ILE:HG13	1:C:1212:ILE:HG22	2.03	0.41
2:D:2323:THR:CG2	2:D:2324:GLN:N	2.83	0.41
2:B:3264:THR:HG22	2:B:3265:ASP:N	2.35	0.41
2:B:3292:ILE:HD13	2:B:3293:VAL:CA	2.51	0.41
2:B:3349:PHE:CG	2:B:3375:PHE:CE1	3.08	0.41
2:D:1973:VAL:HG22	2:D:2027:THR:CA	2.46	0.41
2:D:2030:LEU:O	2:D:2033:MET:HB2	2.21	0.41
2:B:2026:ILE:HD12	2:B:2030:LEU:CD2	2.51	0.41
1:A:632:HIS:NE2	1:A:636:VAL:CG2	2.84	0.41
1:C:566:LEU:N	1:C:566:LEU:CD2	2.83	0.41
1:C:632:HIS:NE2	1:C:636:VAL:CG2	2.84	0.41
1:C:658:CYS:SG	1:C:659:ALA:N	2.93	0.41
2:D:2472:LEU:CD2	2:D:2473:PRO:HD2	2.25	0.41
1:A:960:PHE:CE1	1:A:961:ASP:OD2	2.74	0.41
1:A:407:LYS:HA	1:A:653:PRO:CD	2.50	0.41
2:D:2634:LEU:HA	2:D:2676:TRP:CZ3	2.52	0.41
2:B:1817:LYS:HB2	2:B:1820:HIS:CE1	2.56	0.41
2:B:2734:ARG:O	2:B:2755:PRO:HD2	2.20	0.41
2:B:1745:LEU:CB	2:B:1750:ALA:HB2	2.41	0.41
2:D:2732:MET:HE2	2:D:2759:PHE:HE2	1.85	0.41
1:C:1554:LEU:CG	1:C:1602:LEU:CD2	2.95	0.41
1:C:1061:LYS:HE2	1:C:1067:TYR:CD1	2.56	0.41
2:B:2323:THR:CG2	2:B:2324:GLN:N	2.83	0.41
2:B:3195:ARG:HH22	2:B:3295:ARG:NH2	2.18	0.41
2:B:1828:LEU:C	2:B:1828:LEU:HD23	2.40	0.41
2:B:2653:ALA:HB1	2:B:2662:PHE:CD1	2.56	0.41
2:B:2657:THR:CG2	2:B:2658:ASP:N	2.83	0.41
2:B:2729:ILE:HG22	2:B:2733:LYS:HZ1	1.84	0.41
1:C:1048:ASN:O	1:C:1051:ARG:HB3	2.20	0.41
1:A:969:LYS:HG3	1:A:970:THR:N	2.36	0.41
2:D:2143:MET:O	2:D:2146:PHE:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2151:ARG:HG3	2:D:2295:ASP:OD2	2.21	0.41
2:D:2275:LEU:N	2:D:2275:LEU:CD2	2.83	0.41
2:D:2291:HIS:CA	2:D:2294:VAL:HG12	2.51	0.41
2:D:2327:ARG:HB3	2:D:2328:PRO:CA	2.44	0.41
2:D:2083:LYS:HG2	2:D:2169:ALA:CB	2.31	0.41
2:D:2179:ILE:O	2:D:2225:PHE:CD2	2.74	0.41
2:D:2258:VAL:CG1	2:D:2259:MET:N	2.83	0.41
2:D:2256:PHE:CZ	2:D:2298:TRP:HB2	2.56	0.41
2:D:2156:GLN:CD	2:D:2334:ASN:HD21	2.23	0.41
2:B:2101:TYR:CE2	2:D:1694:SER:CB	3.03	0.41
2:B:2143:MET:O	2:B:2146:PHE:HB3	2.20	0.41
2:B:2151:ARG:CZ	2:B:2298:TRP:HZ3	2.34	0.41
2:B:2101:TYR:O	2:D:1693:HIS:HD2	2.04	0.41
2:B:2275:LEU:N	2:B:2275:LEU:CD2	2.83	0.41
2:B:2288:PHE:CD1	2:B:2288:PHE:C	2.95	0.41
2:B:2291:HIS:CA	2:B:2294:VAL:HG12	2.51	0.41
2:B:1721:ALA:HB2	2:B:2012:LYS:HB3	2.02	0.41
2:B:2094:ARG:HB3	2:D:1747:LYS:NZ	2.26	0.41
1:A:881:TRP:CZ3	1:A:885:PRO:HG3	2.56	0.41
1:A:1086:LEU:HD22	1:A:1090:ILE:HG21	2.02	0.41
2:D:2559:CYS:CB	2:D:2561:HIS:CE1	3.03	0.41
1:C:881:TRP:CZ3	1:C:885:PRO:HG3	2.56	0.41
1:C:1352:LEU:CB	1:C:1353:PRO:HD2	2.37	0.41
1:C:1326:VAL:HG21	1:C:1493:PHE:CE1	2.40	0.41
1:C:1342:TYR:HB2	1:C:1457:THR:HB	2.03	0.41
1:C:621:HIS:NE2	1:C:767:LYS:CB	2.82	0.41
1:A:121:ASN:OD1	1:A:122:TYR:CD1	2.74	0.41
1:A:146:LYS:HZ2	1:A:148:LYS:CE	2.31	0.41
1:A:69:HIS:HB3	1:A:210:HIS:HD2	1.86	0.41
1:A:1340:VAL:HA	1:A:1341:PRO:HD2	1.86	0.41
1:A:1353:PRO:HG2	1:A:1356:ILE:CD1	2.51	0.41
1:A:1311:HIS:CE1	1:A:1442:LEU:CD2	3.03	0.41
1:A:1244:GLU:HG3	1:A:1473:LYS:CA	2.51	0.41
1:A:1258:ILE:HG22	1:A:1259:ARG:N	2.34	0.41
1:A:557:HIS:HB3	1:A:613:GLU:CD	2.40	0.41
1:A:514:TRP:CH2	1:A:524:PRO:HD3	2.55	0.41
1:A:552:GLU:OE1	1:A:622:TYR:CE1	2.74	0.41
1:A:576:THR:H	1:A:579:PHE:HB3	1.86	0.41
1:A:514:TRP:CZ3	1:A:628:LEU:CD1	3.03	0.41
1:C:69:HIS:HB3	1:C:210:HIS:HD2	1.86	0.41
1:C:72:TYR:CE2	1:C:76:MET:CE	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3267:HIS:CG	2:D:3268:VAL:N	2.88	0.41
2:D:3320:VAL:CG1	2:D:3321:LYS:H	2.14	0.41
2:D:3342:LEU:C	2:D:3342:LEU:HD23	2.41	0.41
1:C:1126:ILE:HD12	1:C:1126:ILE:H	1.84	0.41
1:C:853:LEU:HD11	1:C:926:PRO:CG	2.51	0.41
1:C:1116:TYR:HB2	1:C:1119:LEU:CD2	2.51	0.41
1:A:1640:VAL:CG2	1:A:1641:ILE:N	2.83	0.41
1:A:1622:PHE:C	1:A:1622:PHE:CD1	2.94	0.41
2:B:2494:HIS:NE2	2:B:3125:LYS:HG3	2.25	0.41
2:B:2978:THR:HG22	2:B:3106:HIS:HB2	2.02	0.41
2:D:1757:TRP:NE1	2:D:1763:ARG:CZ	2.84	0.41
2:D:1766:LEU:HD12	2:D:1766:LEU:N	2.35	0.41
2:D:1757:TRP:HE1	2:D:1763:ARG:CZ	2.33	0.41
2:D:1847:HIS:ND1	2:D:1877:HIS:NE2	2.68	0.41
2:B:1671:ILE:HG23	2:B:1672:THR:N	2.36	0.41
2:B:1757:TRP:NE1	2:B:1763:ARG:CZ	2.84	0.41
2:D:1732:GLN:CG	2:D:1934:PRO:HB3	2.50	0.41
2:B:3363:LEU:HB3	2:B:3364:GLY:H	1.58	0.41
2:B:3325:LYS:HD3	2:B:3367:TYR:HB2	2.02	0.41
2:B:3325:LYS:HB2	2:B:3325:LYS:HE3	1.87	0.41
2:B:3340:LEU:CB	2:B:3377:THR:CG2	2.93	0.41
1:C:462:HIS:CD2	1:C:480:CYS:HB2	2.43	0.41
1:C:1153:LYS:N	1:C:1153:LYS:HD2	2.35	0.41
1:C:895:VAL:HG21	1:C:900:VAL:CG1	2.51	0.41
1:C:1229:PHE:CD2	1:C:1230:LYS:O	2.74	0.41
2:D:3002:THR:HG22	2:D:3048:PHE:CE1	2.55	0.41
2:D:3059:LEU:HD11	2:D:3115:ILE:HD11	2.03	0.41
2:D:3123:ARG:HH22	2:D:3191:LEU:HD13	1.86	0.41
2:D:3190:VAL:CG1	2:D:3191:LEU:N	2.83	0.41
1:A:1030:MET:CE	1:A:1042:PHE:HA	2.51	0.41
1:A:487:PHE:CE2	1:A:491:HIS:HE1	2.39	0.41
1:A:487:PHE:HD1	1:A:488:PRO:HD3	1.84	0.41
2:D:2912:ILE:O	2:D:2915:LEU:HB2	2.21	0.41
2:D:2910:LYS:HG2	2:D:3175:ASP:HB3	2.02	0.41
1:C:600:ILE:CG2	1:C:601:THR:N	2.82	0.41
1:C:1622:PHE:CD1	1:C:1622:PHE:C	2.94	0.41
2:D:2717:TYR:HE1	2:D:2779:LYS:HZ2	1.64	0.41
1:C:1567:PHE:CD1	1:C:1583:ALA:CA	2.95	0.41
1:C:1641:ILE:HG23	1:C:1641:ILE:O	2.21	0.41
2:D:1906:VAL:CG2	2:D:1907:ASN:N	2.84	0.41
1:A:377:TYR:C	1:A:377:TYR:CD1	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3209:ILE:CD1	2:B:3235:ILE:CG2	2.99	0.41
2:B:3212:THR:CG2	2:B:3213:ALA:N	2.83	0.41
2:D:2627:THR:CG2	2:D:2681:THR:CG2	2.94	0.41
1:A:853:LEU:HD11	1:A:926:PRO:CG	2.51	0.41
1:A:853:LEU:N	1:A:921:TYR:CD1	2.88	0.41
1:A:943:HIS:CE1	1:A:946:TYR:CE2	3.09	0.41
1:C:747:ILE:HD13	1:C:785:LEU:HD21	2.02	0.41
1:A:991:ILE:HD11	1:A:995:VAL:CG1	2.51	0.41
1:C:1487:HIS:NE2	2:D:2038:ASP:O	2.54	0.41
2:B:1816:THR:CG2	2:B:1817:LYS:N	2.83	0.41
2:B:2572:LEU:HD23	2:B:2764:PHE:CE2	2.40	0.41
2:B:2734:ARG:HA	2:B:2735:PRO:HD3	1.81	0.41
2:B:1761:LEU:HG	2:B:1762:PRO:N	2.35	0.41
1:A:1000:GLU:CD	1:A:1141:ARG:HH22	2.24	0.41
2:B:1931:PHE:HB3	2:B:1943:PHE:CZ	2.55	0.41
2:D:1945:TYR:C	2:D:1945:TYR:CD1	2.94	0.41
2:D:1943:PHE:HB2	2:D:1945:TYR:CE2	2.56	0.41
1:A:729:TYR:HA	1:A:779:PHE:O	2.21	0.41
1:C:1205:HIS:HD2	1:C:1207:GLU:CB	2.34	0.41
1:C:729:TYR:HA	1:C:779:PHE:O	2.21	0.41
1:A:1379:ILE:O	1:A:1379:ILE:HG23	2.21	0.41
2:D:3140:PRO:HB2	2:D:3145:ASN:HD22	1.86	0.41
2:D:3142:HIS:CG	2:D:3146:TYR:CE2	3.06	0.41
2:D:2136:VAL:HG21	2:D:2425:MET:SD	2.61	0.41
2:D:2810:SER:HB3	2:D:2822:PHE:CZ	2.55	0.41
1:A:1554:LEU:CD1	1:A:1602:LEU:HD22	2.50	0.41
2:B:3029:GLN:NE2	2:B:3088:TYR:HB3	2.35	0.41
2:B:3136:ILE:HD11	2:D:3345:TYR:CZ	2.55	0.41
2:B:2854:MET:O	2:B:2855:HIS:HB2	2.20	0.41
1:C:137:ARG:HH21	1:C:139:VAL:CG2	2.33	0.41
2:D:1833:GLN:HG2	2:D:1838:ASP:HB3	2.02	0.41
2:D:1829:LEU:HD13	2:D:1833:GLN:HE22	1.84	0.41
2:D:1683:VAL:O	2:D:1787:PRO:HG3	2.20	0.41
2:B:1690:LYS:NZ	2:B:1690:LYS:HB3	2.35	0.41
1:A:804:GLU:CG	1:A:805:VAL:N	2.84	0.41
1:C:933:PRO:HB3	1:C:981:GLU:CB	2.51	0.41
1:C:861:LYS:HZ3	1:C:962:GLY:CA	2.33	0.41
2:D:1772:VAL:HG12	2:D:1774:THR:O	2.21	0.41
2:D:1892:GLN:O	2:D:1895:ARG:HB2	2.21	0.41
2:D:2600:THR:O	2:D:2635:PHE:CE1	2.74	0.41
1:C:969:LYS:HG3	1:C:970:THR:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2192:TYR:HD1	2:B:2199:VAL:HG22	1.86	0.41
2:D:1989:ASP:OD1	2:D:2004:TYR:HB3	2.21	0.41
2:B:2141:HIS:HD2	2:B:2146:PHE:HD2	1.69	0.41
2:B:2538:ILE:HB	2:B:2577:MET:SD	2.60	0.41
1:C:1319:TRP:HE3	1:C:1320:HIS:HA	1.85	0.41
1:C:1274:ARG:NE	1:C:1361:TYR:CD2	2.89	0.41
1:C:1451:PHE:C	1:C:1451:PHE:CD1	2.95	0.41
1:C:426:LYS:HD2	1:C:509:ILE:HD13	2.02	0.41
1:C:427:ASN:HB3	1:C:513:TYR:OH	2.21	0.41
1:C:710:ILE:CD1	1:C:718:MET:SD	3.08	0.41
1:A:94:TRP:CH2	1:A:185:LEU:HD22	2.51	0.41
1:A:270:TYR:CA	1:A:273:LEU:HD13	2.48	0.41
1:A:5:ARG:HD3	1:A:89:LEU:HG	2.03	0.41
1:A:70:ARG:HG2	1:A:214:ASP:CG	2.41	0.41
1:A:1280:ILE:CG2	1:A:1281:GLU:N	2.83	0.41
1:A:1262:ILE:CG2	1:A:1341:PRO:HB2	2.48	0.41
1:A:502:LEU:HB3	1:A:507:ALA:CB	2.51	0.41
1:A:546:SER:CB	1:A:558:THR:HG21	2.51	0.41
1:A:560:ARG:HB2	1:A:609:THR:O	2.22	0.41
1:A:710:ILE:CD1	1:A:718:MET:SD	3.08	0.41
1:C:18:ASP:OD1	1:C:85:ARG:HA	2.20	0.41
1:C:65:PHE:HD1	1:C:66:PRO:CD	2.34	0.41
1:C:73:VAL:CG2	1:C:74:VAL:N	2.83	0.41
1:C:1112:PHE:HB3	1:C:1114:TYR:CD2	2.56	0.41
2:B:3123:ARG:HH22	2:B:3191:LEU:HD13	1.86	0.41
1:C:1147:LEU:O	1:C:1229:PHE:CE1	2.74	0.41
1:A:485:PRO:HA	1:A:595:GLU:HG3	2.03	0.41
1:A:815:ILE:HA	1:A:816:PRO:HD2	1.86	0.41
1:C:488:PRO:O	1:C:640:TRP:CZ3	2.75	0.41
1:C:588:GLN:HE22	1:C:597:GLN:CG	2.33	0.41
1:C:815:ILE:HA	1:C:816:PRO:HD2	1.86	0.41
2:D:2627:THR:HG22	2:D:2683:TYR:CA	2.51	0.41
1:A:1112:PHE:HB3	1:A:1114:TYR:CD2	2.56	0.41
1:A:853:LEU:HD21	1:A:921:TYR:CD2	2.56	0.41
1:A:1413:PHE:O	1:A:1416:PHE:HB3	2.20	0.41
1:A:1423:LEU:HD12	1:A:1423:LEU:C	2.41	0.41
1:C:1014:ALA:O	1:C:1017:TYR:HD1	2.04	0.41
1:C:989:THR:HG22	1:C:991:ILE:H	1.86	0.41
1:C:791:THR:CG2	1:C:794:GLY:N	2.82	0.41
1:C:174:GLN:CD	1:C:358:TYR:CE1	2.95	0.41
2:D:1817:LYS:HB2	2:D:1820:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3140:PRO:HB2	2:B:3145:ASN:HD22	1.86	0.41
2:B:1689:MET:CA	2:B:1748:HIS:CE1	3.03	0.41
2:B:2385:PHE:CE2	2:B:2436:ASP:OD1	2.74	0.41
1:A:137:ARG:HH21	1:A:139:VAL:CG2	2.33	0.41
2:B:2405:LYS:HG2	2:B:2407:SER:H	1.86	0.41
2:D:2895:HIS:HE1	2:D:2899:HIS:CE1	2.39	0.41
2:D:2192:TYR:HD1	2:D:2199:VAL:HG22	1.86	0.41
2:B:3008:THR:HG22	2:B:3008:THR:O	2.21	0.41
2:D:2149:TRP:HZ3	2:D:2150:HIS:CD2	2.39	0.40
2:D:2258:VAL:HG21	2:D:2416:ILE:CG2	2.51	0.40
2:D:2296:LYS:HA	2:D:2358:TYR:CZ	2.56	0.40
2:D:2307:LYS:HE3	2:D:2369:HIS:CG	2.57	0.40
2:D:2368:LEU:HA	2:D:2371:ILE:HG12	2.03	0.40
2:B:2103:LEU:HD22	2:B:2106:LEU:HD12	2.02	0.40
2:B:2106:LEU:CD2	2:B:2164:HIS:CG	2.99	0.40
2:B:2256:PHE:CZ	2:B:2298:TRP:HB2	2.56	0.40
2:D:1701:ILE:CG2	2:D:1741:PHE:CE1	3.04	0.40
1:A:875:PHE:CD2	1:A:1083:PRO:HG2	2.56	0.40
2:B:2542:HIS:CG	2:B:2559:CYS:SG	3.14	0.40
2:B:2569:TRP:HD1	2:B:2736:LEU:HB3	1.85	0.40
1:C:1363:ASN:HB2	1:C:1365:ARG:NH2	2.34	0.40
1:C:1262:ILE:HG21	1:C:1453:LEU:HD23	2.03	0.40
1:C:1533:ILE:HA	1:C:1536:LEU:HD23	2.03	0.40
1:C:502:LEU:HB3	1:C:507:ALA:CB	2.51	0.40
1:A:26:LEU:HB2	1:A:83:LYS:CG	2.50	0.40
1:A:1244:GLU:N	1:A:1244:GLU:OE1	2.38	0.40
1:A:1274:ARG:CG	1:A:1275:ALA:N	2.82	0.40
1:A:1464:ILE:CD1	1:A:1526:LEU:CB	2.98	0.40
1:A:551:PHE:CG	1:A:552:GLU:N	2.89	0.40
1:A:552:GLU:OE1	1:A:615:PHE:CE1	2.74	0.40
1:A:628:LEU:HD12	1:A:631:PHE:HB2	2.03	0.40
1:A:719:ILE:HA	1:A:722:ASN:ND2	2.36	0.40
1:C:273:LEU:CD1	1:C:273:LEU:N	2.82	0.40
1:C:73:VAL:HB	1:C:89:LEU:HD13	2.02	0.40
1:C:1095:VAL:HG13	1:C:1099:HIS:CE1	2.56	0.40
1:C:1095:VAL:HG12	1:C:1099:HIS:ND1	2.35	0.40
1:C:853:LEU:HD21	1:C:921:TYR:CD2	2.56	0.40
2:B:2946:HIS:HB3	2:B:3097:ALA:CB	2.51	0.40
2:D:1770:LEU:N	2:D:1770:LEU:CD1	2.82	0.40
2:B:1766:LEU:HD12	2:B:1766:LEU:N	2.35	0.40
1:A:1161:ILE:CD1	1:A:1171:ALA:CB	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1162:CYS:HA	1:A:1168:CYS:HA	2.02	0.40
1:A:1224:LEU:CD2	1:A:1224:LEU:N	2.84	0.40
2:B:3342:LEU:HD23	2:B:3342:LEU:C	2.41	0.40
1:A:578:LEU:N	1:A:578:LEU:CD2	2.84	0.40
1:A:746:PHE:CE2	1:A:754:GLN:CD	2.95	0.40
2:B:2096:ILE:HG23	2:B:2097:GLY:N	2.36	0.40
2:B:3090:MET:HG2	2:B:3090:MET:O	2.20	0.40
1:C:665:MET:O	1:C:688:PRO:HD2	2.20	0.40
2:B:1705:HIS:HE1	2:B:1865:LEU:CD1	2.29	0.40
2:B:3215:VAL:HG23	2:B:3215:VAL:O	2.21	0.40
2:B:3274:LEU:HD12	2:B:3276:LYS:HE3	2.01	0.40
1:A:1116:TYR:HB2	1:A:1119:LEU:CD2	2.51	0.40
1:A:1420:LEU:HD12	1:A:1423:LEU:HD11	2.01	0.40
1:A:781:ILE:CG2	1:A:785:LEU:CG	2.94	0.40
1:A:174:GLN:CD	1:A:358:TYR:CE1	2.95	0.40
1:A:384:PHE:CZ	1:A:388:GLY:CA	2.95	0.40
2:D:1819:HIS:CG	2:D:1820:HIS:H	2.39	0.40
2:D:2631:ARG:NE	2:D:2679:GLY:HA2	2.22	0.40
1:C:801:ASP:HB3	1:C:809:LYS:NZ	2.37	0.40
2:B:2959:LYS:HZ1	2:B:3240:LYS:HE2	1.86	0.40
2:D:2385:PHE:CE2	2:D:2436:ASP:OD1	2.74	0.40
1:A:1233:SER:HA	2:B:2320:SER:HB2	2.03	0.40
1:A:953:VAL:O	1:A:955:LYS:HE2	2.21	0.40
1:A:933:PRO:HB3	1:A:981:GLU:CB	2.51	0.40
2:D:2729:ILE:HG22	2:D:2733:LYS:HZ2	1.84	0.40
1:C:574:HIS:CE1	1:C:575:HIS:CE1	3.10	0.40
2:D:2154:THR:O	2:D:2288:PHE:CE2	2.74	0.40
2:D:2152:LEU:HD21	2:D:2329:PHE:CG	2.56	0.40
2:B:2083:LYS:HZ2	2:B:2158:GLU:HB3	1.85	0.40
2:B:2215:TYR:CD2	2:B:2216:THR:O	2.75	0.40
2:B:2307:LYS:HE3	2:B:2369:HIS:CG	2.57	0.40
2:D:2191:TYR:CE2	2:D:2193:ASP:O	2.74	0.40
2:D:2542:HIS:CG	2:D:2559:CYS:SG	3.14	0.40
1:C:1090:ILE:CG2	1:C:1091:ASN:N	2.82	0.40
1:C:1254:SER:HB3	1:C:1522:ALA:N	2.36	0.40
1:A:60:HIS:HA	1:A:65:PHE:CD2	2.52	0.40
1:A:1342:TYR:HB2	1:A:1457:THR:HB	2.03	0.40
1:A:446:PHE:CG	1:A:505:ARG:CZ	3.04	0.40
1:C:210:HIS:C	1:C:213:VAL:HG22	2.41	0.40
1:C:67:HIS:NE2	1:C:268:PHE:CZ	2.83	0.40
1:C:314:GLY:HA2	1:C:345:GLY:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3325:LYS:HD3	2:D:3367:TYR:HB2	2.02	0.40
1:C:960:PHE:CE1	1:C:961:ASP:OD2	2.74	0.40
2:D:1756:TYR:HB2	2:D:1880:GLN:CA	2.51	0.40
1:C:1157:VAL:HB	1:C:1174:PHE:CE1	2.56	0.40
2:D:1913:LEU:N	2:D:1913:LEU:CD1	2.84	0.40
2:B:3217:VAL:HA	2:B:3273:ASP:OD1	2.20	0.40
2:B:3219:ILE:HG21	2:B:3261:LEU:CD1	2.52	0.40
2:B:3328:PHE:HE1	2:B:3364:GLY:C	2.24	0.40
2:B:3347:ALA:CA	2:B:3350:LYS:HD3	2.51	0.40
1:C:1042:PHE:CD1	1:C:1042:PHE:C	2.94	0.40
2:D:2978:THR:HG22	2:D:3106:HIS:HB2	2.02	0.40
2:D:1990:PHE:CD2	2:D:2002:ALA:CB	3.03	0.40
1:A:566:LEU:CD1	1:A:608:TRP:CD2	3.01	0.40
2:B:2093:GLU:O	2:B:2096:ILE:HG22	2.22	0.40
1:C:1611:LEU:HB3	1:C:1616:VAL:CG2	2.51	0.40
2:B:2794:THR:HG22	2:B:2848:THR:HA	2.03	0.40
2:B:3275:LYS:HG2	2:B:3284:ALA:HA	2.03	0.40
1:A:1095:VAL:HG12	1:A:1099:HIS:ND1	2.35	0.40
2:B:2148:HIS:CD2	2:B:2348:VAL:HG21	2.56	0.40
1:A:1392:ASP:O	1:A:1395:PHE:CZ	2.75	0.40
2:B:1815:SER:OG	2:B:1820:HIS:NE2	2.54	0.40
2:B:2636:ASN:ND2	2:B:2646:PHE:CE2	2.89	0.40
1:C:128:ILE:CD1	1:C:128:ILE:N	2.84	0.40
2:B:2799:LEU:HB2	2:B:2842:LEU:CD2	2.52	0.40
2:B:2766:PHE:C	2:B:2766:PHE:CD1	2.95	0.40
1:C:751:ASP:HB3	1:C:753:VAL:HG23	2.03	0.40
2:B:2612:ASN:OD1	2:B:2614:PHE:HB2	2.22	0.40
2:B:2136:VAL:HG21	2:B:2425:MET:SD	2.61	0.40
2:B:2382:VAL:CG1	2:B:2383:ARG:N	2.85	0.40
2:D:2975:ARG:HG3	2:D:3110:ASP:OD2	2.22	0.40
2:B:2948:TYR:HA	2:B:2949:PRO:C	2.40	0.40
1:C:1059:LEU:HD21	1:C:1130:ASN:HB2	2.02	0.40
2:B:2016:TRP:HZ3	2:B:2018:PHE:CE2	2.39	0.40
2:B:2858:TYR:CE1	2:B:2886:VAL:HG12	2.55	0.40
1:C:1202:LEU:HB2	1:C:1204:LEU:HG	2.01	0.40
2:B:2811:PHE:HB2	2:B:2865:HIS:O	2.22	0.40
1:A:395:LEU:C	1:A:395:LEU:HD23	2.41	0.40
1:A:255:ILE:HG12	1:A:257:LEU:H	1.86	0.40
1:A:1528:LEU:O	1:A:1531:TYR:CD2	2.73	0.40
2:B:1892:GLN:O	2:B:1895:ARG:HB2	2.21	0.40
2:D:3251:ARG:HH21	2:D:3303:ILE:HG21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2618:HIS:HE1	2:B:2623:GLY:HA2	1.86	0.40
1:C:762:VAL:HG12	1:C:763:LEU:N	2.36	0.40
2:D:3197:LYS:HA	2:D:3197:LYS:HD3	1.91	0.40
1:C:1386:THR:HG22	1:C:1387:THR:N	2.36	0.40
2:B:2170:VAL:HG12	2:B:2171:PRO:O	2.21	0.40
2:B:2184:HIS:HA	2:B:2187:THR:OG1	2.21	0.40
2:B:2259:MET:HG3	2:B:2260:HIS:N	2.37	0.40
1:C:1261:ASN:HD22	1:C:1263:GLU:HB2	1.86	0.40
1:C:446:PHE:CG	1:C:505:ARG:CZ	3.04	0.40
1:C:719:ILE:HA	1:C:722:ASN:ND2	2.36	0.40
1:A:210:HIS:C	1:A:213:VAL:HG22	2.41	0.40
1:A:1431:LEU:HD13	1:A:1450:VAL:HG11	2.04	0.40
1:A:1451:PHE:CD1	1:A:1451:PHE:C	2.95	0.40
1:A:468:CYS:CB	1:A:477:TYR:CE1	3.02	0.40
1:A:552:GLU:OE2	1:A:615:PHE:CD1	2.74	0.40
1:C:194:MET:SD	1:C:205:ILE:HD12	2.61	0.40
1:C:285:MET:CE	1:C:290:LEU:CD2	2.95	0.40
1:C:65:PHE:C	1:C:65:PHE:CD1	2.95	0.40
2:D:3248:ARG:CZ	2:D:3320:VAL:CG2	2.94	0.40
1:A:1567:PHE:CD1	1:A:1583:ALA:N	2.80	0.40
2:B:1756:TYR:HB2	2:B:1880:GLN:CA	2.51	0.40
1:A:1211:TYR:CE2	1:A:1212:ILE:O	2.74	0.40
2:B:3267:HIS:CG	2:B:3268:VAL:N	2.88	0.40
2:D:2794:THR:HG22	2:D:2848:THR:HA	2.03	0.40
2:B:2401:PHE:CE1	2:B:2402:GLN:O	2.74	0.40
2:D:3042:GLN:HG3	2:D:3043:THR:N	2.35	0.40
2:D:2026:ILE:HD12	2:D:2030:LEU:CD2	2.51	0.40
1:A:895:VAL:HG21	1:A:900:VAL:CG1	2.51	0.40
1:A:901:PHE:CD1	1:A:902:PRO:HD3	2.56	0.40
1:A:487:PHE:CZ	1:A:491:HIS:CE1	3.09	0.40
1:A:688:PRO:CA	1:A:691:ILE:HG12	2.35	0.40
1:A:746:PHE:CE2	1:A:799:THR:CB	2.95	0.40
1:C:487:PHE:C	1:C:487:PHE:CD1	2.95	0.40
1:C:578:LEU:HD11	1:C:604:THR:CG2	2.29	0.40
2:B:2912:ILE:O	2:B:2915:LEU:HB2	2.21	0.40
1:A:1095:VAL:HG13	1:A:1099:HIS:CE1	2.56	0.40
2:D:3209:ILE:HD11	2:D:3235:ILE:CG2	2.50	0.40
2:D:3211:THR:CG2	2:D:3277:TYR:HE1	2.35	0.40
1:C:329:ASP:OD2	1:C:330:ARG:CZ	2.67	0.40
1:C:1034:ARG:HG3	1:C:1035:TYR:CD2	2.56	0.40
2:D:3083:GLY:HA3	2:D:3091:SER:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2766:PHE:C	2:D:2766:PHE:CD1	2.95	0.40
1:C:749:THR:HG23	1:C:751:ASP:CB	2.50	0.40
1:A:620:LEU:HD23	1:A:620:LEU:C	2.41	0.40
1:C:1379:ILE:HG23	1:C:1379:ILE:O	2.21	0.40
1:A:1436:LYS:CD	1:A:1437:TYR:CE1	2.95	0.40
2:B:3081:LEU:H	2:B:3081:LEU:CD2	2.29	0.40
2:B:2544:ASN:HA	2:B:2545:PRO:C	2.42	0.40
1:A:984:GLU:O	1:A:985:PHE:CD1	2.74	0.40
2:B:2718:ARG:HD3	2:B:2718:ARG:HH11	1.76	0.40
1:A:936:HIS:HD2	1:A:937:LEU:O	2.05	0.40
2:D:3369:VAL:O	2:D:3369:VAL:HG22	2.22	0.40
2:D:2249:TYR:C	2:D:2249:TYR:CD1	2.95	0.40
2:B:2139:CYS:SG	2:B:2141:HIS:NE2	2.95	0.40
2:B:2255:GLN:OE1	2:B:2433:PHE:CE1	2.74	0.40
2:B:2154:THR:O	2:B:2288:PHE:CE2	2.74	0.40
2:B:2303:ALA:HB1	2:B:2368:LEU:HD13	2.03	0.40
2:B:2141:HIS:O	2:B:2427:TRP:CD1	2.75	0.40
2:B:2255:GLN:OE1	2:B:2433:PHE:CZ	2.75	0.40
2:B:1701:ILE:CG2	2:B:1741:PHE:CE1	3.04	0.40
2:D:1924:LEU:CD2	2:D:1924:LEU:N	2.83	0.40
1:A:871:GLN:HE22	1:A:881:TRP:HZ2	1.66	0.40
1:C:514:TRP:CH2	1:C:524:PRO:HD3	2.55	0.40
1:C:552:GLU:OE2	1:C:615:PHE:CD1	2.74	0.40
1:A:104:LEU:HB3	1:A:123:TRP:CZ3	2.56	0.40
1:A:213:VAL:CG2	1:A:214:ASP:N	2.83	0.40
1:A:1449:PRO:HA	1:A:1452:PHE:CE2	2.57	0.40
1:A:1292:PHE:HD1	1:A:1492:PRO:HG2	1.86	0.40
1:A:526:LEU:CD2	1:A:544:PHE:CD2	3.04	0.40
1:A:574:HIS:CE1	1:A:575:HIS:CE1	3.10	0.40
1:C:104:LEU:HB3	1:C:123:TRP:CZ3	2.56	0.40
2:D:3205:VAL:CG1	2:D:3291:ILE:CD1	2.99	0.40
1:A:1618:LEU:CD1	1:A:1646:ILE:HD11	2.51	0.40
2:D:1671:ILE:HG23	2:D:1672:THR:N	2.36	0.40
2:B:1757:TRP:CZ3	2:B:1873:LEU:HD13	2.51	0.40
1:A:1142:PHE:CD1	1:A:1195:ILE:CG2	2.95	0.40
2:D:2093:GLU:O	2:D:2096:ILE:HG22	2.22	0.40
2:D:2403:ILE:CG2	2:D:2411:HIS:HB3	2.52	0.40
2:B:1909:MET:HB3	2:B:1935:GLU:CG	2.51	0.40
1:A:488:PRO:O	1:A:640:TRP:CZ3	2.75	0.40
2:D:2915:LEU:HD23	2:D:2915:LEU:HA	1.91	0.40
2:B:2621:TYR:HE2	2:B:2693:TYR:OH	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:487:PHE:CE2	1:C:491:HIS:HE1	2.39	0.40
1:A:946:TYR:CE2	1:A:957:ASN:OD1	2.75	0.40
1:C:1010:GLN:CD	1:C:1191:PHE:CE1	2.95	0.40
1:C:930:TRP:CH2	1:C:1014:ALA:O	2.75	0.40
1:A:226:LEU:CD2	1:A:291:LYS:CE	2.95	0.40
2:D:3209:ILE:CD1	2:D:3235:ILE:CG2	2.99	0.40
2:B:2565:THR:HA	2:B:2568:HIS:ND1	2.37	0.40
1:C:1379:ILE:CD1	1:C:1444:TYR:CE1	3.05	0.40
1:A:1379:ILE:CD1	1:A:1444:TYR:CE1	3.04	0.40
1:C:1125:SER:HB3	1:C:1128:GLN:HB2	2.04	0.40
1:C:672:PHE:CD1	1:C:675:PRO:HG2	2.56	0.40
1:A:229:LYS:CG	1:A:230:ASP:N	2.84	0.40
1:C:32:SER:HA	1:C:37:LYS:CG	2.44	0.40
1:A:1061:LYS:HE2	1:A:1067:TYR:CD1	2.56	0.40
2:B:2870:ASP:N	2:B:2876:LEU:CD2	2.84	0.40
1:C:1169:HIS:HB2	1:C:1202:LEU:HD21	2.02	0.40
2:B:2643:GLU:O	2:B:2643:GLU:HG2	2.21	0.40
1:C:984:GLU:O	1:C:985:PHE:CG	2.75	0.40
2:B:3251:ARG:HH21	2:B:3303:ILE:HG21	1.86	0.40
2:B:1989:ASP:OD1	2:B:2004:TYR:HB3	2.21	0.40
2:D:2106:LEU:HA	2:D:2164:HIS:CD2	2.56	0.40
2:D:2336:ASN:OD1	2:D:2338:PHE:CD2	2.75	0.40
2:D:2356:TYR:CE2	2:D:2358:TYR:CZ	2.96	0.40
2:B:2101:TYR:CE1	2:D:1693:HIS:O	2.75	0.40
2:B:2145:THR:O	2:B:2145:THR:HG22	2.22	0.40
2:B:2149:TRP:HZ3	2:B:2150:HIS:CD2	2.39	0.40
2:B:2173:TRP:CZ2	2:B:2179:ILE:CD1	2.94	0.40
2:B:2182:ILE:HB	2:B:2187:THR:CG2	2.51	0.40
2:B:2284:ASP:CG	2:B:2286:ILE:HG22	2.42	0.40
2:B:2152:LEU:HD21	2:B:2329:PHE:CG	2.57	0.40
2:B:2368:LEU:HA	2:B:2371:ILE:HG12	2.03	0.40
2:B:1715:ALA:CA	2:B:1719:ARG:NH2	2.47	0.40
1:C:1427:LEU:HD21	1:C:1431:LEU:HD11	2.03	0.40
1:C:1292:PHE:HD1	1:C:1492:PRO:HG2	1.86	0.40
1:A:1352:LEU:CB	1:A:1353:PRO:HD2	2.37	0.40
1:A:1363:ASN:HB2	1:A:1365:ARG:NH2	2.34	0.40
1:C:197:LEU:HB2	1:C:346:GLY:N	2.37	0.40
1:C:97:PRO:HB3	1:C:146:LYS:HA	2.03	0.40
2:D:3311:ASP:H	2:D:3387:ASN:HB3	1.86	0.40
2:D:3341:ASN:HB2	2:D:3361:PHE:HB3	1.98	0.40
1:A:1567:PHE:CZ	1:A:1580:SER:HB3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1757:TRP:O	2:B:1759:TRP:CE3	2.75	0.40
2:B:1823:PHE:CE2	2:B:1853:TRP:HZ3	2.40	0.40
1:C:1214:TYR:N	1:C:1214:TYR:CD1	2.89	0.40
2:B:3261:LEU:HB2	2:B:3263:LEU:HD13	2.04	0.40
2:B:3326:ILE:HG22	2:B:3368:SER:HB3	2.04	0.40
2:B:3340:LEU:O	2:B:3341:ASN:HB3	2.21	0.40
2:D:2946:HIS:HB3	2:D:3097:ALA:CB	2.51	0.40
2:B:1913:LEU:HD13	2:B:1934:PRO:CG	2.52	0.40
2:D:2067:TYR:CE2	2:D:2069:PRO:HD3	2.56	0.40
1:A:895:VAL:HG23	1:A:898:MET:SD	2.62	0.40
1:A:632:HIS:CE1	1:A:636:VAL:CG2	3.04	0.40
2:B:2627:THR:HG22	2:B:2683:TYR:CA	2.51	0.40
1:A:324:ILE:CG2	1:A:325:PRO:HD2	2.52	0.40
2:B:3209:ILE:HD11	2:B:3235:ILE:CG2	2.50	0.40
1:C:651:HIS:O	1:C:653:PRO:HD3	2.22	0.40
1:C:1392:ASP:O	1:C:1395:PHE:CZ	2.75	0.40
1:A:128:ILE:N	1:A:128:ILE:CD1	2.84	0.40
1:A:1014:ALA:O	1:A:1017:TYR:HD1	2.04	0.40
1:A:329:ASP:OD2	1:A:330:ARG:CZ	2.67	0.40
1:C:1143:PHE:CD2	1:C:1193:TYR:O	2.75	0.40
1:A:1229:PHE:CD2	1:A:1230:LYS:O	2.74	0.40
2:D:2565:THR:HA	2:D:2568:HIS:ND1	2.37	0.40
2:D:2722:TYR:CD2	2:D:2723:ASP:OD1	2.74	0.40
2:D:2722:TYR:CE2	2:D:2723:ASP:CG	2.95	0.40
1:C:215:ARG:HB3	1:C:215:ARG:NH1	2.37	0.40
2:B:2975:ARG:HG3	2:B:3110:ASP:OD2	2.22	0.40
2:B:2956:GLY:C	2:B:2958:GLU:H	2.23	0.40
2:D:2544:ASN:HA	2:D:2545:PRO:C	2.42	0.40
2:D:2172:TYR:HB2	2:D:2293:PHE:HA	2.00	0.40
2:D:3198:SER:N	2:D:3297:ASN:HB3	2.37	0.40
1:A:1101:VAL:HG23	1:A:1104:ASN:HB2	2.01	0.40
2:B:2804:LYS:HE2	2:B:2832:GLU:OE2	2.22	0.40
2:B:2837:TRP:HZ3	2:B:2839:PHE:CE2	2.40	0.40
1:A:984:GLU:HG3	1:A:985:PHE:H	1.87	0.40
1:C:984:GLU:O	1:C:985:PHE:CD1	2.74	0.40
2:D:2477:LEU:N	2:D:2477:LEU:CD2	2.84	0.40
2:B:2477:LEU:N	2:B:2477:LEU:CD2	2.84	0.40
2:D:2618:HIS:HE1	2:D:2623:GLY:HA2	1.86	0.40
1:A:1247:VAL:HG23	1:A:1247:VAL:O	2.21	0.40
1:C:400:VAL:O	1:C:400:VAL:HG23	2.21	0.40
2:B:2394:ARG:HH11	2:B:2394:ARG:HD2	1.71	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1662/1664 (100%)	1601 (96%)	56 (3%)	5 (0%)	46	83
1	C	1662/1664 (100%)	1599 (96%)	58 (4%)	5 (0%)	46	83
2	B	1732/1734 (100%)	1608 (93%)	94 (5%)	30 (2%)	11	55
2	D	1732/1734 (100%)	1608 (93%)	94 (5%)	30 (2%)	11	55
All	All	6788/6796 (100%)	6416 (94%)	302 (4%)	70 (1%)	24	65

All (70) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	2960	TYR
2	B	3028	ASN
2	B	3050	SER
2	B	3148	SER
2	B	3225	SER
2	B	3239	ALA
2	B	3297	ASN
2	B	3303	ILE
2	B	3340	LEU
2	B	3341	ASN
2	B	3344	SER
2	B	3351	CYS
2	D	2960	TYR
2	D	3028	ASN
2	D	3050	SER
2	D	3148	SER
2	D	3223	THR
2	D	3225	SER
2	D	3239	ALA
2	D	3297	ASN

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Mol	Chain	Res	Type
2	D	3303	ILE
2	D	3340	LEU
2	D	3341	ASN
2	D	3344	SER
2	D	3351	CYS
2	B	3029	GLN
2	B	3039	ILE
2	B	3223	THR
2	B	3307	PRO
2	B	3320	VAL
2	B	3361	PHE
2	D	3029	GLN
2	D	3039	ILE
2	D	3307	PRO
2	D	3320	VAL
2	D	3361	PHE
1	A	50	HIS
2	B	3040	PHE
1	C	50	HIS
2	D	3040	PHE
1	A	888	SER
2	B	1798	GLU
1	C	888	SER
2	D	1798	GLU
1	A	573	GLY
1	A	676	LEU
1	A	886	GLU
2	B	2407	SER
2	B	3129	ALA
2	B	3268	VAL
1	C	573	GLY
1	C	676	LEU
1	C	886	GLU
2	D	3129	ALA
2	D	3268	VAL
2	B	2543	GLY
2	B	3298	ASN
2	D	2407	SER
2	D	2543	GLY
2	D	3298	ASN
2	B	2194	VAL
2	B	3124	VAL

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Mol	Chain	Res	Type
2	B	3338	PRO
2	D	2194	VAL
2	D	3124	VAL
2	D	3338	PRO
2	B	3149	VAL
2	D	3149	VAL
2	B	3308	ILE
2	D	3308	ILE

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1457/1457 (100%)	1456 (100%)	1 (0%)	95	97
1	C	1456/1457 (100%)	1455 (100%)	1 (0%)	95	97
2	B	1522/1522 (100%)	1502 (99%)	20 (1%)	76	89
2	D	1522/1522 (100%)	1502 (99%)	20 (1%)	76	89
All	All	5957/5958 (100%)	5915 (99%)	42 (1%)	89	94

All (42) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1365	ARG
2	B	2952	CYS
2	B	2955	LYS
2	B	3009	PHE
2	B	3033	ARG
2	B	3109	LEU
2	B	3177	LEU
2	B	3209	ILE
2	B	3240	LYS
2	B	3242	MET
2	B	3254	ILE
2	B	3267	HIS
2	B	3269	LYS

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Mol	Chain	Res	Type
2	B	3271	ARG
2	B	3275	LYS
2	B	3282	LEU
2	B	3292	ILE
2	B	3297	ASN
2	B	3305	GLU
2	B	3341	ASN
2	B	3387	ASN
1	C	1365	ARG
2	D	2952	CYS
2	D	2955	LYS
2	D	3009	PHE
2	D	3033	ARG
2	D	3109	LEU
2	D	3177	LEU
2	D	3209	ILE
2	D	3240	LYS
2	D	3242	MET
2	D	3254	ILE
2	D	3267	HIS
2	D	3269	LYS
2	D	3271	ARG
2	D	3275	LYS
2	D	3282	LEU
2	D	3292	ILE
2	D	3297	ASN
2	D	3305	GLU
2	D	3341	ASN
2	D	3387	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (230) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	20	GLN
1	A	36	GLN
1	A	152	HIS
1	A	165	GLN
1	A	174	GLN
1	A	238	GLN
1	A	259	ASN
1	A	417	HIS
1	A	462	HIS

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Mol	Chain	Res	Type
1	A	540	HIS
1	A	574	HIS
1	A	575	HIS
1	A	581	GLN
1	A	588	GLN
1	A	633	HIS
1	A	635	ASN
1	A	644	GLN
1	A	651	HIS
1	A	666	HIS
1	A	678	ASN
1	A	696	ASN
1	A	724	GLN
1	A	754	GLN
1	A	870	GLN
1	A	903	HIS
1	A	905	HIS
1	A	936	HIS
1	A	943	HIS
1	A	957	ASN
1	A	994	GLN
1	A	1010	GLN
1	A	1111	ASN
1	A	1160	ASN
1	A	1205	HIS
1	A	1231	GLN
1	A	1243	HIS
1	A	1300	GLN
1	A	1311	HIS
1	A	1363	ASN
1	A	1368	HIS
1	A	1372	ASN
1	A	1403	GLN
1	A	1419	GLN
1	A	1466	GLN
1	A	1469	GLN
1	A	1506	HIS
1	A	1530	HIS
1	A	1541	GLN
1	A	1546	HIS
1	A	1557	ASN
1	A	1575	HIS

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Mol	Chain	Res	Type
1	A	1642	HIS
2	B	1673	GLN
2	B	1693	HIS
2	B	1742	GLN
2	B	1820	HIS
2	B	1833	GLN
2	B	1842	GLN
2	B	1878	HIS
2	B	1880	GLN
2	B	1889	GLN
2	B	1929	HIS
2	B	1970	HIS
2	B	2034	ASN
2	B	2150	HIS
2	B	2156	GLN
2	B	2233	HIS
2	B	2239	GLN
2	B	2246	GLN
2	B	2247	HIS
2	B	2255	GLN
2	B	2261	ASN
2	B	2279	HIS
2	B	2302	GLN
2	B	2325	ASN
2	B	2400	GLN
2	B	2402	GLN
2	B	2453	HIS
2	B	2478	HIS
2	B	2494	HIS
2	B	2495	HIS
2	B	2502	HIS
2	B	2542	HIS
2	B	2618	HIS
2	B	2636	ASN
2	B	2665	GLN
2	B	2700	HIS
2	B	2701	HIS
2	B	2703	ASN
2	B	2765	ASN
2	B	2774	HIS
2	B	2801	HIS
2	B	2816	HIS

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Mol	Chain	Res	Type
2	B	2853	GLN
2	B	2888	HIS
2	B	2911	ASN
2	B	2917	HIS
2	B	2931	GLN
2	B	2932	ASN
2	B	2974	HIS
2	B	2977	HIS
2	B	2988	HIS
2	B	3015	ASN
2	B	3016	ASN
2	B	3042	GLN
2	B	3057	GLN
2	B	3105	HIS
2	B	3106	HIS
2	B	3142	HIS
2	B	3145	ASN
2	B	3150	ASN
2	B	3151	ASN
2	B	3162	ASN
2	B	3178	ASN
2	B	3297	ASN
2	B	3341	ASN
2	B	3359	HIS
2	B	3387	ASN
1	C	36	GLN
1	C	152	HIS
1	C	165	GLN
1	C	174	GLN
1	C	238	GLN
1	C	259	ASN
1	C	417	HIS
1	C	462	HIS
1	C	540	HIS
1	C	574	HIS
1	C	575	HIS
1	C	581	GLN
1	C	588	GLN
1	C	633	HIS
1	C	635	ASN
1	C	644	GLN
1	C	651	HIS

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Mol	Chain	Res	Type
1	C	666	HIS
1	C	678	ASN
1	C	696	ASN
1	C	724	GLN
1	C	754	GLN
1	C	870	GLN
1	C	903	HIS
1	C	905	HIS
1	C	936	HIS
1	C	943	HIS
1	C	957	ASN
1	C	994	GLN
1	C	1010	GLN
1	C	1111	ASN
1	C	1160	ASN
1	C	1205	HIS
1	C	1231	GLN
1	C	1243	HIS
1	C	1300	GLN
1	C	1311	HIS
1	C	1363	ASN
1	C	1368	HIS
1	C	1372	ASN
1	C	1403	GLN
1	C	1419	GLN
1	C	1466	GLN
1	C	1469	GLN
1	C	1484	GLN
1	C	1506	HIS
1	C	1530	HIS
1	C	1541	GLN
1	C	1557	ASN
1	C	1575	HIS
1	C	1642	HIS
2	D	1673	GLN
2	D	1742	GLN
2	D	1820	HIS
2	D	1833	GLN
2	D	1842	GLN
2	D	1878	HIS
2	D	1880	GLN
2	D	1889	GLN

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Mol	Chain	Res	Type
2	D	1929	HIS
2	D	1970	HIS
2	D	2034	ASN
2	D	2141	HIS
2	D	2150	HIS
2	D	2156	GLN
2	D	2233	HIS
2	D	2239	GLN
2	D	2246	GLN
2	D	2255	GLN
2	D	2279	HIS
2	D	2302	GLN
2	D	2325	ASN
2	D	2400	GLN
2	D	2402	GLN
2	D	2453	HIS
2	D	2478	HIS
2	D	2542	HIS
2	D	2570	HIS
2	D	2618	HIS
2	D	2636	ASN
2	D	2665	GLN
2	D	2700	HIS
2	D	2701	HIS
2	D	2703	ASN
2	D	2774	HIS
2	D	2801	HIS
2	D	2816	HIS
2	D	2853	GLN
2	D	2895	HIS
2	D	2899	HIS
2	D	2911	ASN
2	D	2931	GLN
2	D	2932	ASN
2	D	2974	HIS
2	D	2977	HIS
2	D	2980	GLN
2	D	2988	HIS
2	D	3015	ASN
2	D	3016	ASN
2	D	3042	GLN
2	D	3057	GLN

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Mol	Chain	Res	Type
2	D	3105	HIS
2	D	3142	HIS
2	D	3145	ASN
2	D	3150	ASN
2	D	3151	ASN
2	D	3162	ASN
2	D	3178	ASN
2	D	3297	ASN
2	D	3341	ASN
2	D	3359	HIS
2	D	3387	ASN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

16 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
3	CUO	A	9001	1	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	A	9002	1	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	A	9003	1	0,4,4	0.00	-	0,4,4	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	CUO	A	9004	1	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	B	9005	2	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	B	9006	2	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	B	9007	2	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	B	9008	2	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	C	9001	1	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	C	9002	1	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	C	9003	1	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	C	9004	1	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	D	9005	2	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	D	9006	2	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	D	9007	2	0,4,4	0.00	-	0,4,4	0.00	-
3	CUO	D	9008	2	0,4,4	0.00	-	0,4,4	0.00	-

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CUO	A	9001	1	-	0/0/4/4	0/1/1/1
3	CUO	A	9002	1	-	0/0/4/4	0/1/1/1
3	CUO	A	9003	1	-	0/0/4/4	0/1/1/1
3	CUO	A	9004	1	-	0/0/4/4	0/1/1/1
3	CUO	B	9005	2	-	0/0/4/4	0/1/1/1
3	CUO	B	9006	2	-	0/0/4/4	0/1/1/1
3	CUO	B	9007	2	-	0/0/4/4	0/1/1/1
3	CUO	B	9008	2	-	0/0/4/4	0/1/1/1
3	CUO	C	9001	1	-	0/0/4/4	0/1/1/1
3	CUO	C	9002	1	-	0/0/4/4	0/1/1/1
3	CUO	C	9003	1	-	0/0/4/4	0/1/1/1
3	CUO	C	9004	1	-	0/0/4/4	0/1/1/1
3	CUO	D	9005	2	-	0/0/4/4	0/1/1/1
3	CUO	D	9006	2	-	0/0/4/4	0/1/1/1
3	CUO	D	9007	2	-	0/0/4/4	0/1/1/1
3	CUO	D	9008	2	-	0/0/4/4	0/1/1/1

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.

4 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	9003	CUO	1	0
3	B	9008	CUO	3	0
3	C	9003	CUO	1	0
3	D	9008	CUO	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.