



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 09:07 am GMT

PDB ID : 4V59
Title : Crystal structure of fatty acid synthase complexed with nadp+ from thermomyces lanuginosus at 3.1 angstrom resolution.
Authors : JENNI, S.; LEIBUNDGUT, M.; BOEHRINGER, D.; FRICK, C.; MIKOLASEK, B.; BAN, N.
Deposited on : 2007-03-09
Resolution : 3.10 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity	:	4.02b-467
Mogul	:	1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix)	:	1.9-1692
EDS	:	trunk28620
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	recalc28972

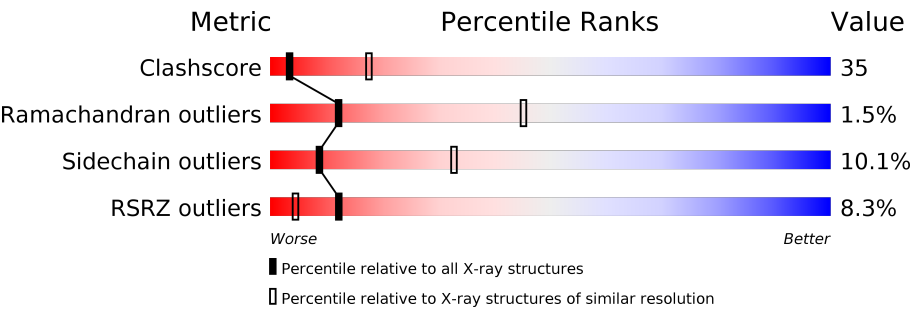
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 Å.

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



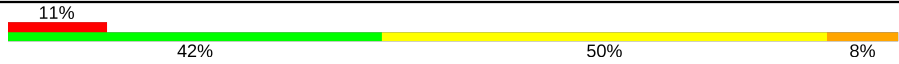

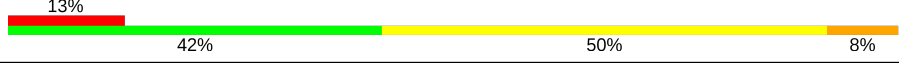
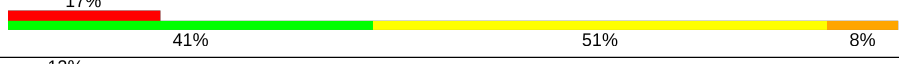

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	112137	1099 (3.12-3.08)
Ramachandran outliers	110173	1057 (3.12-3.08)
Sidechain outliers	110143	1057 (3.12-3.08)
RSRZ outliers	101464	1006 (3.12-3.08)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1878	<div><div>2%</div><div><div></div><div>39%</div><div>35%</div><div>•</div><div>22%</div></div></div>
1	B	1878	<div><div>2%</div><div><div></div><div>40%</div><div>34%</div><div>•</div><div>22%</div></div></div>
1	C	1878	<div><div>2%</div><div><div></div><div>39%</div><div>34%</div><div>•</div><div>22%</div></div></div>
1	D	1878	<div><div>3%</div><div><div></div><div>39%</div><div>34%</div><div>5%</div><div>22%</div></div></div>
1	E	1878	<div><div>3%</div><div><div></div><div>38%</div><div>35%</div><div>•</div><div>22%</div></div></div>
1	F	1878	<div><div>2%</div><div><div></div><div>40%</div><div>33%</div><div>•</div><div>22%</div></div></div>
2	G	2060	<div><div>8%</div><div><div></div><div>43%</div><div>49%</div><div>8%</div></div></div>

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Mol	Chain	Length	Quality of chain
2	H	2060	
2	I	2060	
2	J	2060	
2	K	2060	
2	L	2060	

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
4	FMN	G	2101	-	-	X	-
4	FMN	H	2101	-	-	X	-
4	FMN	I	2101	-	-	X	-
4	FMN	J	2101	-	-	X	-
4	FMN	K	2101	-	-	X	-
4	FMN	L	2101	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 167247 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called FATTY ACID SYNTHASE ALPHA SUBUNITS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1457	Total	C	N	O	S	0	0	0
			11514	7290	2005	2170	49			
1	B	1464	Total	C	N	O	S	0	0	0
			11571	7323	2015	2183	50			
1	C	1462	Total	C	N	O	S	0	0	0
			11555	7312	2012	2181	50			
1	D	1467	Total	C	N	O	S	0	0	0
			11593	7336	2021	2186	50			
1	E	1456	Total	C	N	O	S	0	0	0
			11506	7285	2004	2169	48			
1	F	1461	Total	C	N	O	S	0	0	0
			11546	7307	2010	2179	50			

- Molecule 2 is a protein called FATTY ACID SYNTHASE BETA SUBUNITS.

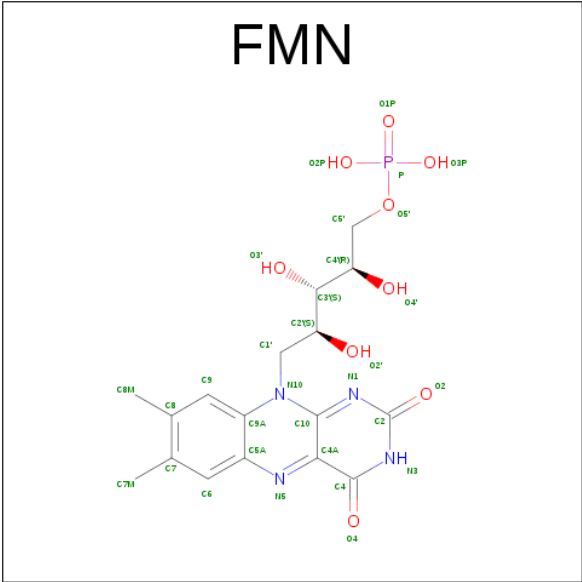
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	G	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	H	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	I	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	J	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	K	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	L	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			

- Molecule 3 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: C₂₁H₂₈N₇O₁₇P₃).



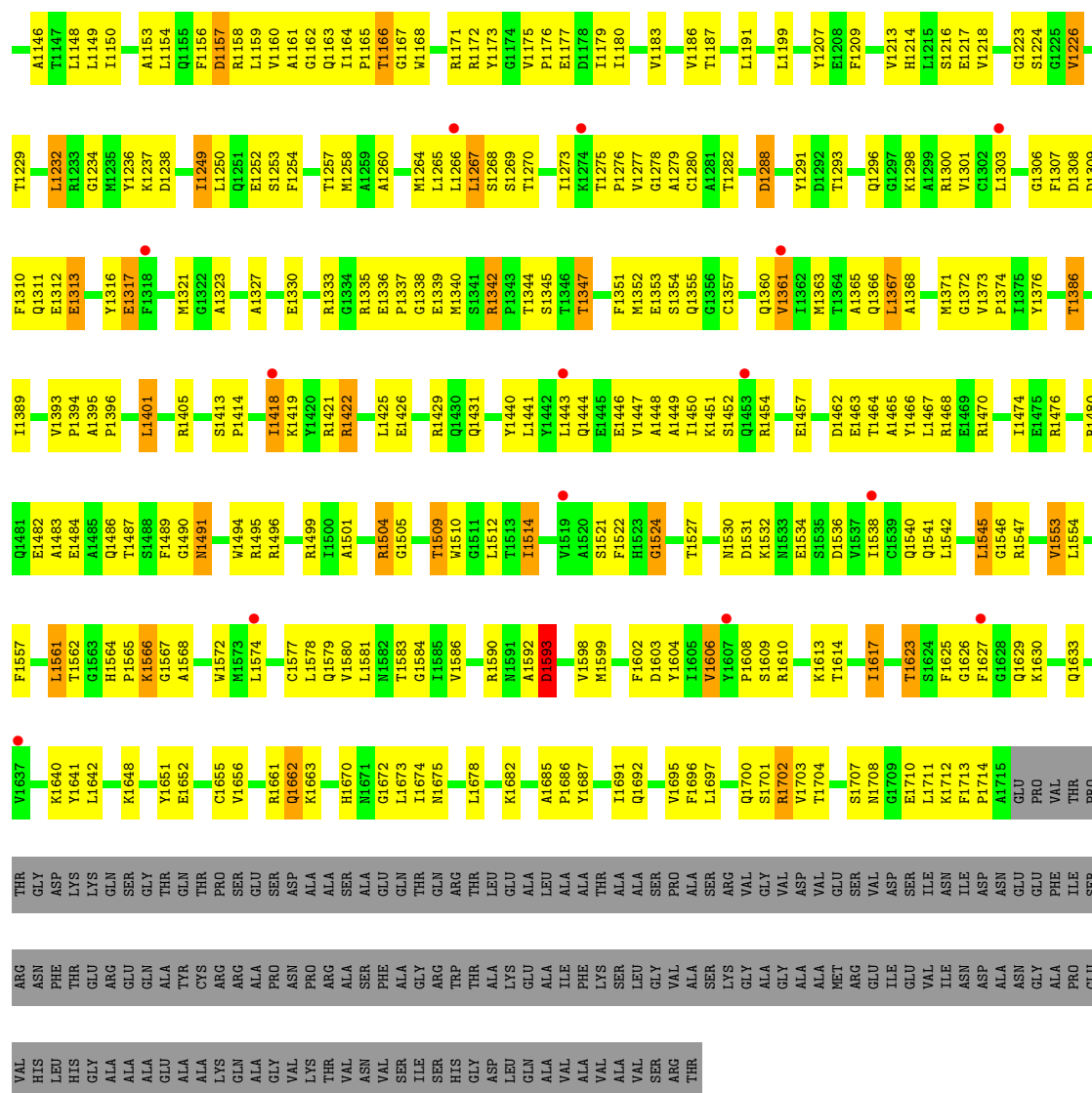
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	B	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	C	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	D	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	E	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	F	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	G	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	H	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	I	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	J	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	K	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
3	L	1	Total	C	N	O	P	0	0
			48	21	7	17	3		

- Molecule 4 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: C₁₇H₂₁N₄O₉P).

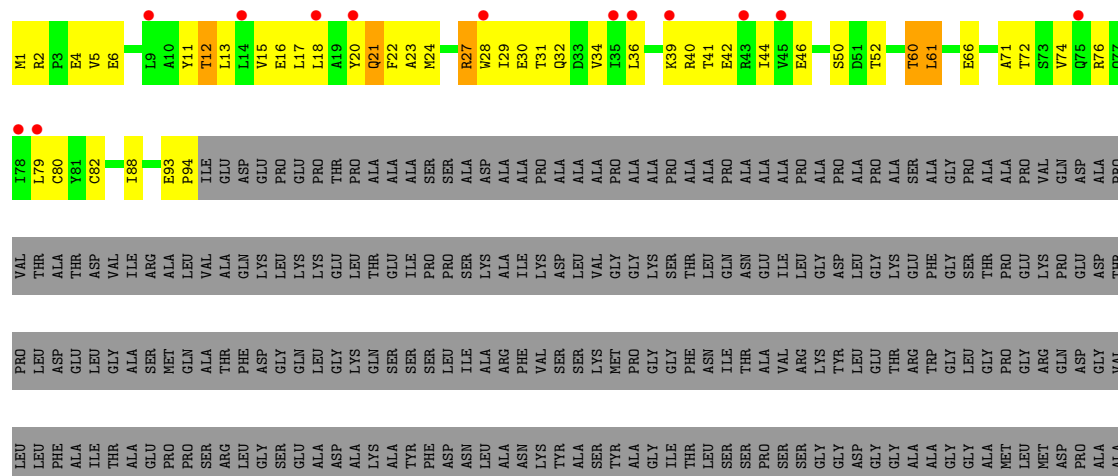


- Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

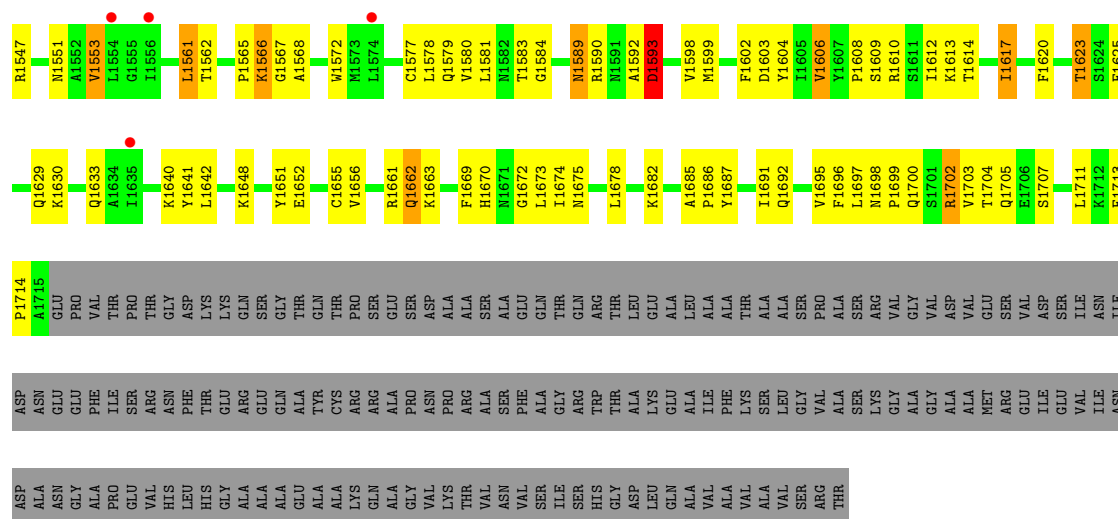




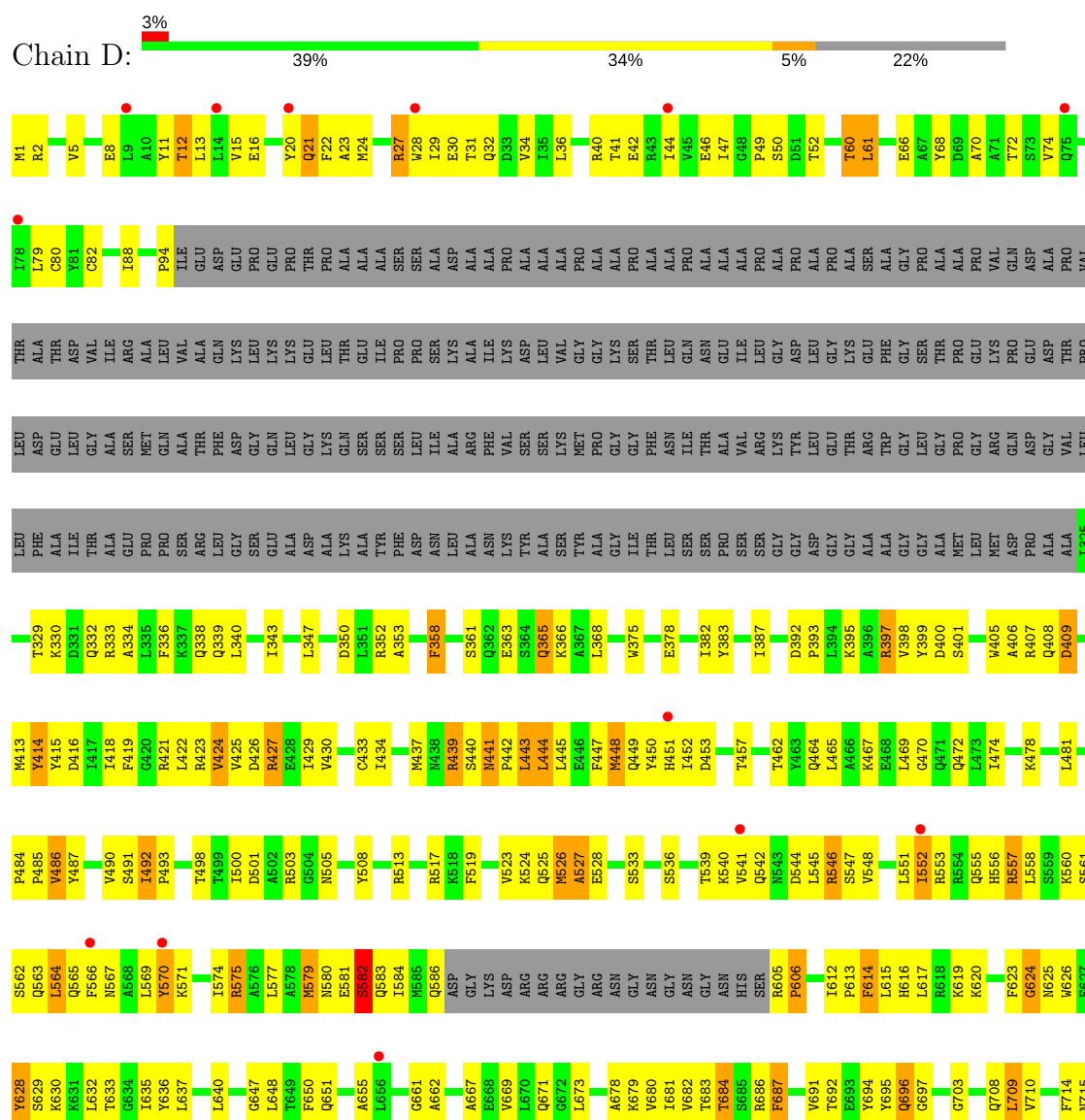
• Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS



R1468	T1386	G1306	S1216	T1139	V1059	W973	C892	L821	D731	K630	F566	Y487	D416	I325
E1469		F1307	E1217	V1140	D1060	W973	Q893	E822	G735	K631	N567		I417	
R1470	I1389	D1308	V1218	R1141	K1061	K978	F898	L824	G736	L632	A568	V490	F418	T329
R1473		F1309	G1223	L1142	K1062	P979	A899		L736	L633	L569		F419	K330
E1474	V1393	D1310	S1224	A1146	V1063	L980	D900	W828	L740	G634	Y570	P493	R421	Q332
E1475	P1394	Q1311	G1225	T1147	D1064	L981	L901		D741	L635			L422	Q333
R1476	A1395	E1312	W1226	L1148	V1068	Q983	N902	E831	Y742	L636			R422	R333
	P1396	E1313		T1150	E1069	L984	G903	S832	Y743	L637			V424	A334
R1480			T1229			Q986	G904	W833	Y744	L640			Y425	L335
Q1481	L1401	Y1316			I1072	Q987	L905		P745	L641			D426	F336
E1482	T1402	E1317	L1232	A1153		W987	Q906	L837	F746	G647			R427	Q338
A1483	T1403	R1233	G1233	L1154		Q988	Q907	T838	A747	L648			E428	Q339
E1484	A1404	G1234	Q1155	G1155	H1075	W989	I908	L839					I429	
A1485	R1405	W1235	D1157	T1156		L990	P909		E751	A655			V430	T343
Q1486		Y1236	I1078		I1078		L911	W843						
T1487	S1413	R1237	R1079	R1158	R1079	W995	L911	R844	R754	A662			I434	D350
F1488	P1414	D1238	L1080	L1159	L1080	Y996		G845	E755					L351
Q1490			I1081	V1160	I1081	T997	L914	W846	I756	A667				R352
	T1418	I1249	E1082	A1161	E1082	Q998	M915	T847	D757	E668			W437	A353
	K1419	L1250	P1083	G1162	P1083	L999	T916	R848	S758	V669			M438	
	Y1420	Q1251	E1084	Q1163	E1084	A1000	K917	R849	I759	W69			M439	
	R1421	E1356	L1085	L1164	L1085	E1001	L918	T850	D760	L670			R439	F358
	R1422	S1253	F1086	T1165	F1086	E1001	R919		S761	Q671			S440	
		F1254		T1166		P1004		L852		G672			N441	S361
	L1425			G1167	Y1089	W1005	I922	R853	A766	L673			P442	
	E1426	T1257	D1090	W1168	D1090	G1006		S854	H767				L443	Q365
	L1427	M1258	P1091	L1169	P1091	G1006	S926	S855	R768				L444	
	R1428	A1259	N1092	V1169	N1092	A1008	S926	R856	I769	A678			F447	L368
	R1429	A1260	K1093	R1171	K1093		R929	R857	M770	V680				E528
	Q1430		K1094	R1172	K1094	R1011	Q930	L858	I681	Q529			M448	W375
Q1431		W1264	Q1095	Y1173	Q1095	E1012		R859	W682	ASN			Q449	
			L1096	G1174	L1096	W1013	I933	A860	T772	T683			Q450	D381
	W1435	L1267	L1097	P1175	L1097	M1014		E861	L777	T684			H451	L382
	Y1440	F1351	V1100	E1177	V1100	Y1017	N940	R862	A780	S685			I452	Y383
	L1443	S1352	I1102	D1178	I1102		V942	R863	I781	R686			D453	A384
	Q1444	E1353	E1103	L1180	E1103	L1022		R864	K782	F687				
	E1445	Q1354	D1184	V1183	D1184	E1023	E946	W868	I783	V691			T457	L387
	E1446	Q1355	P1185	P1185	L1106	M1031	D947	R869	K786	T692			T462	D392
	V1447	C1357	E1107	V1186	E1107	M1032	H948	T870	L845	E693			Y463	P393
	A1448	W1277	P1108	V1187	P1108		E949	R871	R793	Y694			Q464	L394
	A1449	Q1360	K1113	T1187	K1113	M1037	L951	S872	L799	Q696			L465	K395
	K1451	V1361	E1117	L1188	E1117	H1038	Y952	Q873	P800	G697			A466	R397
		M1363	L1191	L1188	L1188	M1039	R953	R874	L799				K467	V398
	R1454	A1281	E1118	L1191	E1118	L1042	R954	R875	L801	Q708			L469	Y399
		T1282	E1119	L1198	E1119	K1043	Y955	W876	L801	W710			G470	D400
	E1457	D1288	K1120	L1199	K1120	S1048	P959	F878	N804	F714			Q471	S401
	D1458		R1121	L1199	R1121	G1049	R960		G809				Q472	W405
	P1460	T1293	I1129	Y1207	I1129	W1050	A961	L881	N810	W715			L474	W406
	G1372	K1298	F1209	E1208	F1209	V1051	N962	G882	D811	Q716			K478	R407
	V1373	A1299	E1130	L1208	E1130	D1052	L963	L883	G812	F623				Q408
	L1375	R1300	E1131	F1209	F1130	D1052	K964	W884	L813	G624			L481	D409
	Y1376	V1301	I1132	Y1212	I1132	T1055	Y965	T888	W814	W726				L411
		C1302	Q1137	V1213	I1137	G1056	P966	W889	S815				P464	S412
	L1467	L1303	L1215	H1214	Q1137	E1057	P967	W890	E817	I729			P465	W413
							P968	L891		Y730			W466	Y415



● Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

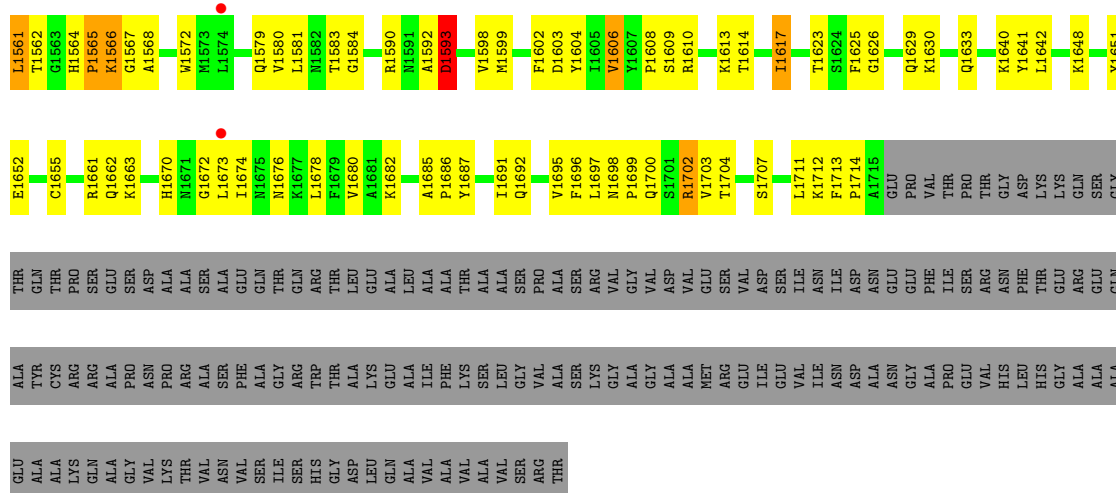


- Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

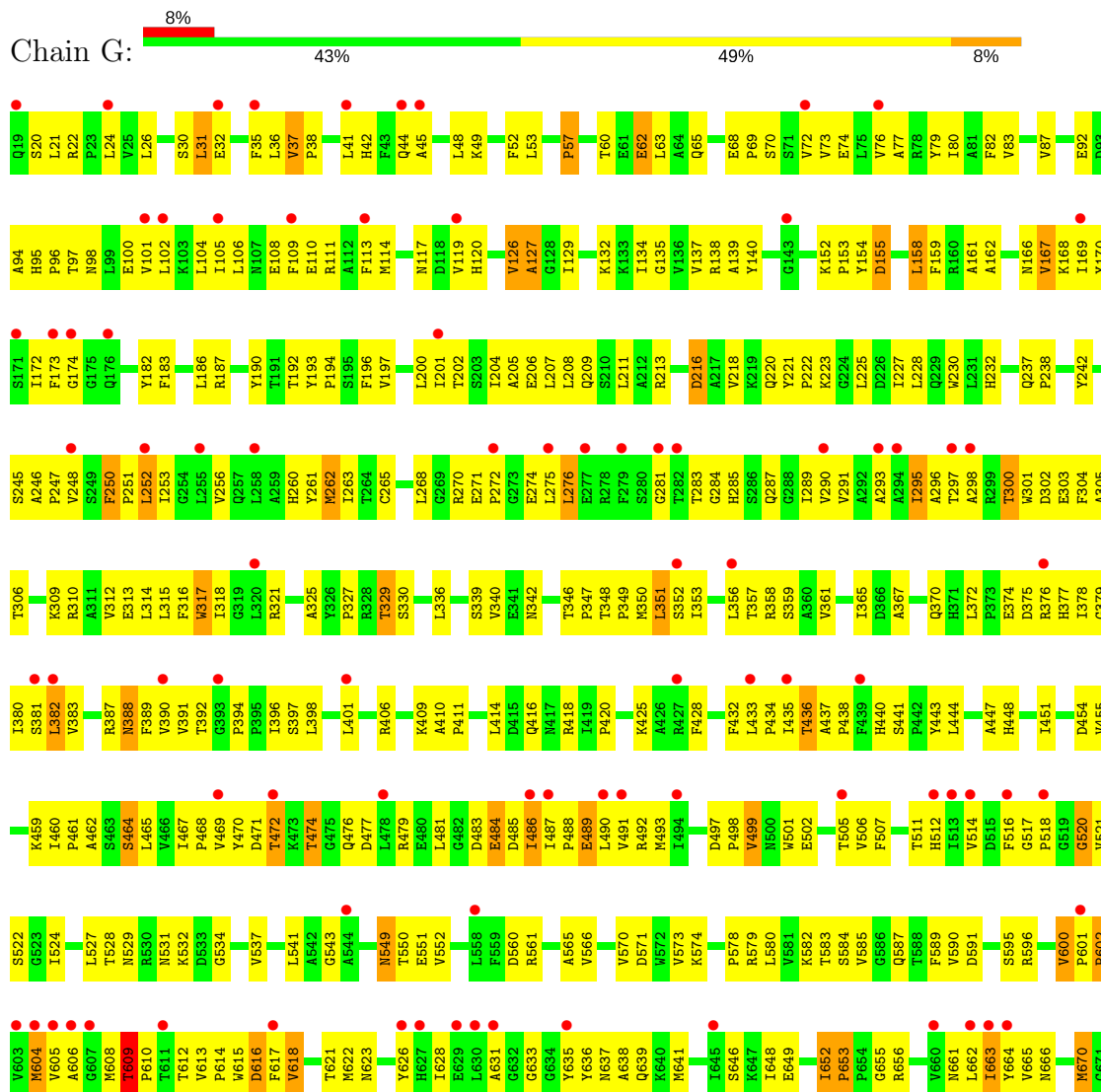




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I1474	F1307	G1225	L1142	K1065	P979	D900	E832	V743	G647	I574	S491	Y415	ALA	VAL
R1475	D1308	V1226	A1146	Y1068	L980	L901	S833	P744	L648	R575	P492	I417		LEU
	D1309	T1229	L1147	K1070	Q983	N902	G834	P745		A576	P493	I418		PHE
R1480	F1310	L1232	L1148	K1071	L984	G904	N835	F746		A577	T498	I419	T329	ALA
A1483	Q1311	L1233	L1149	Y1071	G985	L905	Y836	A747		A578	T498	I420	D331	ILE
E1484	E1312	G1234	I1150	I1072	G986	Q906	L837	E751		A579	D801	R421	Q332	THR
	A1153	M1235	A1154	H1075	P987	P907	T838	E752		A580	A502	R422	Q333	ALA
Q1485	L1154	M1236	Q1155	I1078	V988	N908	T839	R755		A581	R503	L422	A334	GLU
T1487	Q1156	K1237	D1157	I1079	L990	P909	V843	E756		A582	G504	R423	A335	PRO
F1489	D1157	D1238	D1157	L1080	V995	K912	W846	D757		A583	N505	V425	F336	PRO
	L1168	L1241	L1168	L1081	V996	G913	T847	E758		A584	GLY	D426	F337	SER
A1495	L1169	L1242	L1169	L1082	T997	L914	R848	D759		A585	ASP	R427	Q338	ARG
Q1496	V1160	I1243	V1160	E1083	G998	M915	R849	D760		A586	GLY	E428	Q339	LEU
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S1498	G1162	E1252	G1162	L1085	A1000	K917	G851	L674		A588	ARG			SER
F1499	Q1163	S1253	Q1163	F1086	E1001	L918	L852	L675		A589	ARG			GLU
R1495	I1164	F1254	T1166	Y1089	P1004	R919	L853	L676		A590	GLY	C433	L343	ALA
R1496	Q1165	F1255	T1167	D1090	P1005	R920	L854	A678		A591	ARG	I434	L347	ASP
	D1168	F1256	T1168	P1091	G1006	Q930	S854	K679		A592	ASN	Q435		ALA
R1499	A1170	F1257	A1170	K1094	A1007	R931	S855	V680		A593	GLY	I436	D350	LYS
I1500	I1171	G1258	I1171	Q1095	G1008	I922	A855	I681		A594	ASN	M437	L351	ALA
P1502	G1172	E1259	G1172	L1096	A1009	S926	N856	V682		A595	GLY	R438	R352	TYR
L1503	E1173	A1260	E1173	R1093	A1008	S927	N857	T772		A596	ASN	S440	A353	PHE
R1504	G1174	G1261	G1174	E1099	P1010	R929	L858	T773		A597	ASN	M441	F358	ASP
G1505	E1175	L1262	E1175	Q1104	P1011	Q931	S859	L774		A598	HIS	M442		ASN
T1509	I1176	L1263	I1176	L1102	R1012	R932	A860	G779		A599	ARG	L443	Q362	ASN
W1510	E1177	L1264	E1177	L1096	E1013	I933	G862	A780		A600	ARG	L444	Q363	LYS
G1511	I1180	L1265	I1180	E1103	M1014	N940	S864	I781		A601	PRO	M448	S364	TYR
L1512	V1183	L1266	V1183	Q1105	Y1017	V943	E865	I782		A602	GLY	Q449	Q365	ALA
T1513	V1184	L1267	V1184	L1106	M1032	E949	F871	I783		A603	VAL	Y450	A367	SER
I1514	E1188	L1268	E1188	E1107	M1037	L951	S872	Q696		A604	T611	I452	L368	ALA
	L1191	L1269	L1191	K1113	H1038	Y952	Q874	Y695		A605	T612	D453	L369	GLY
V1519	L1199	L1270	L1199	E1117	M1039	I956	S875	K786		A606	S547	D454	E378	ILE
F1522	L1207	L1271	L1207	E1118	L1042	P959	F878	R793		A607	V548	H454		THR
H1523	E1208	L1272	E1208	F1119	S1048	R960	N879	L799		A608	Y549	C455		LEU
G1524	E1210	L1273	E1210	K1120	G1049	A961	L880	P800		A609	K550	P456	I382	SER
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S1526	F1210	L1275	F1210	E1126	V1051	K964	L883	L802		A611	I552			SER
	L1213	L1276	L1213	I1129	D1052	P965	W884	F710		A612	R553	T462	I387	PRO
D1531	V1214	L1277	V1214	I1130	T1055	P966	T888	G809		A613	R554	Y463		SER
K1532	L1215	L1278	L1215	F1130	G1056	P967	N889	N810		A614	Q555	Q464	D392	SER
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I1534	L1217	L1280	L1217	I1132	P1058	E969	N891	G812		A616	R557	E468	A396	ASP
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	G1223	L1283	G1223	T1139	D1063		F898	E816		A619	S562	Q471	Y399	ALA
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		L1286								A622	Q565	I474		GLY
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		L1289								A625	A568	L477		GLY
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● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

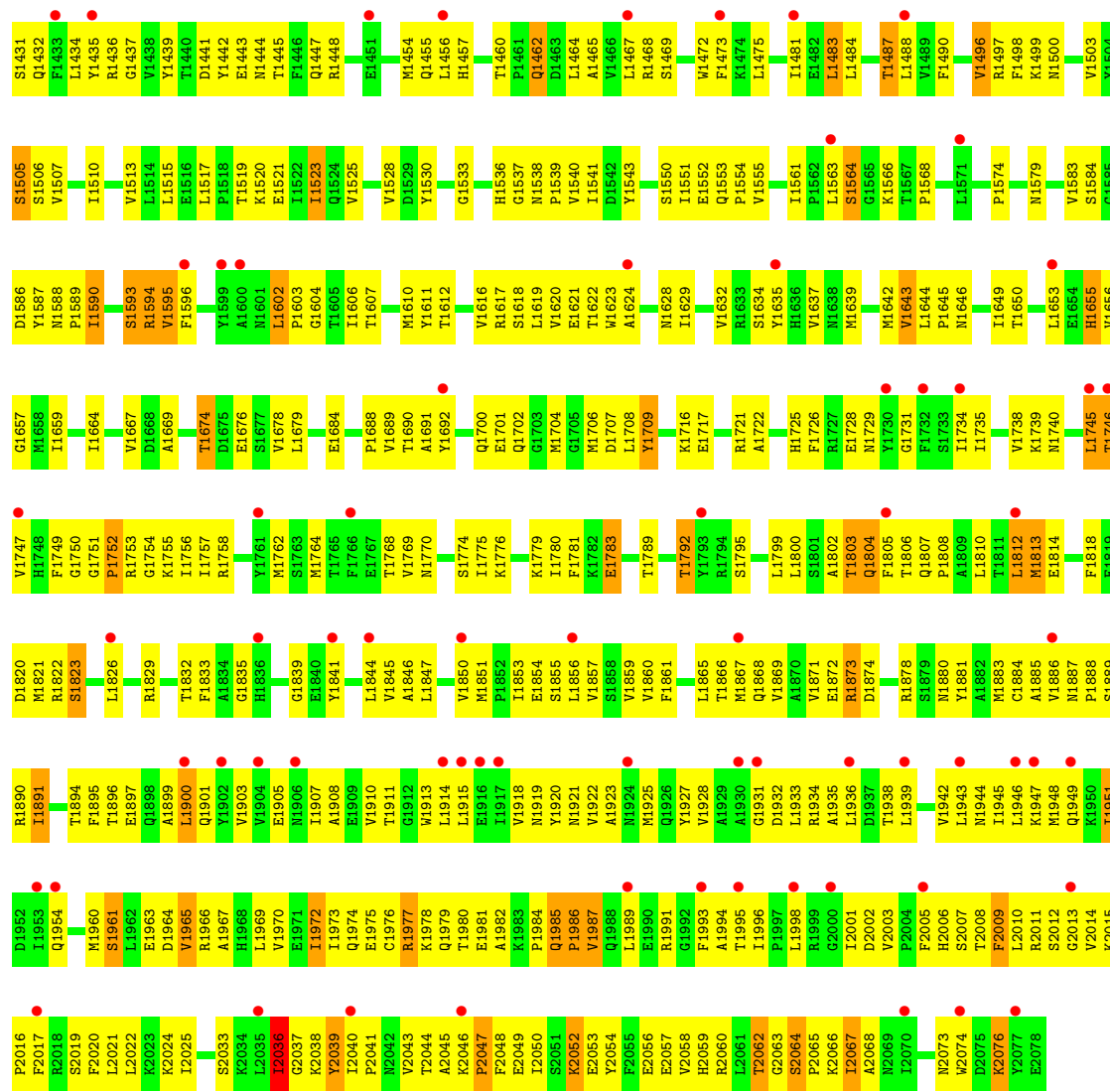


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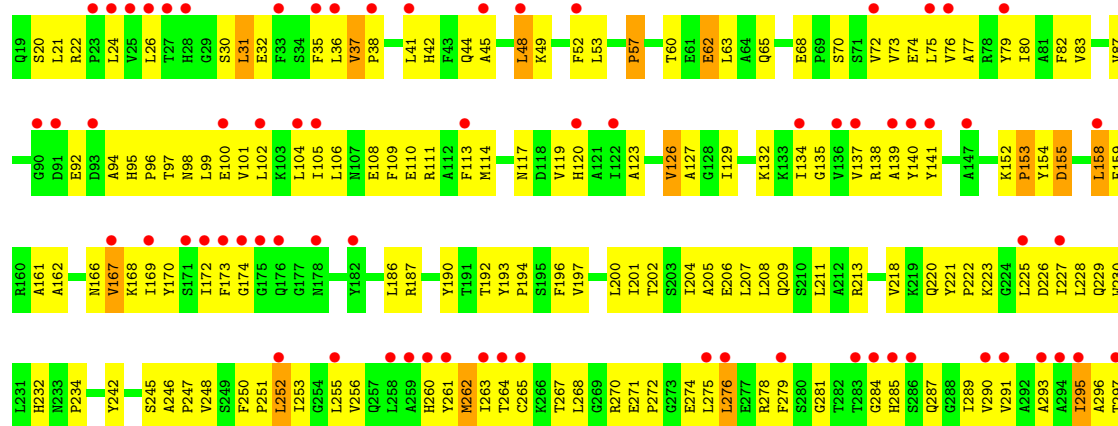
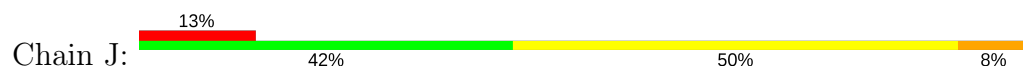


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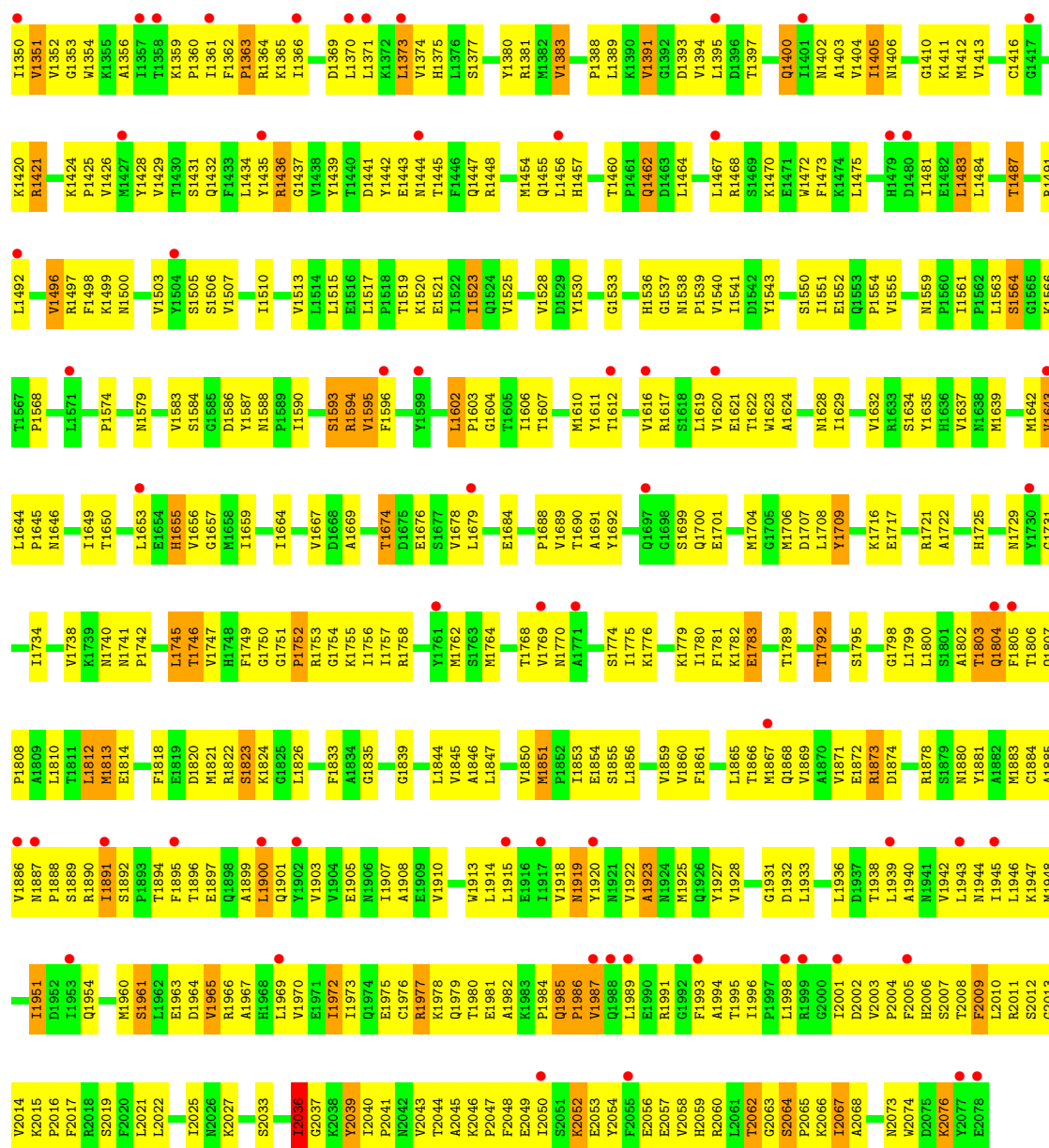




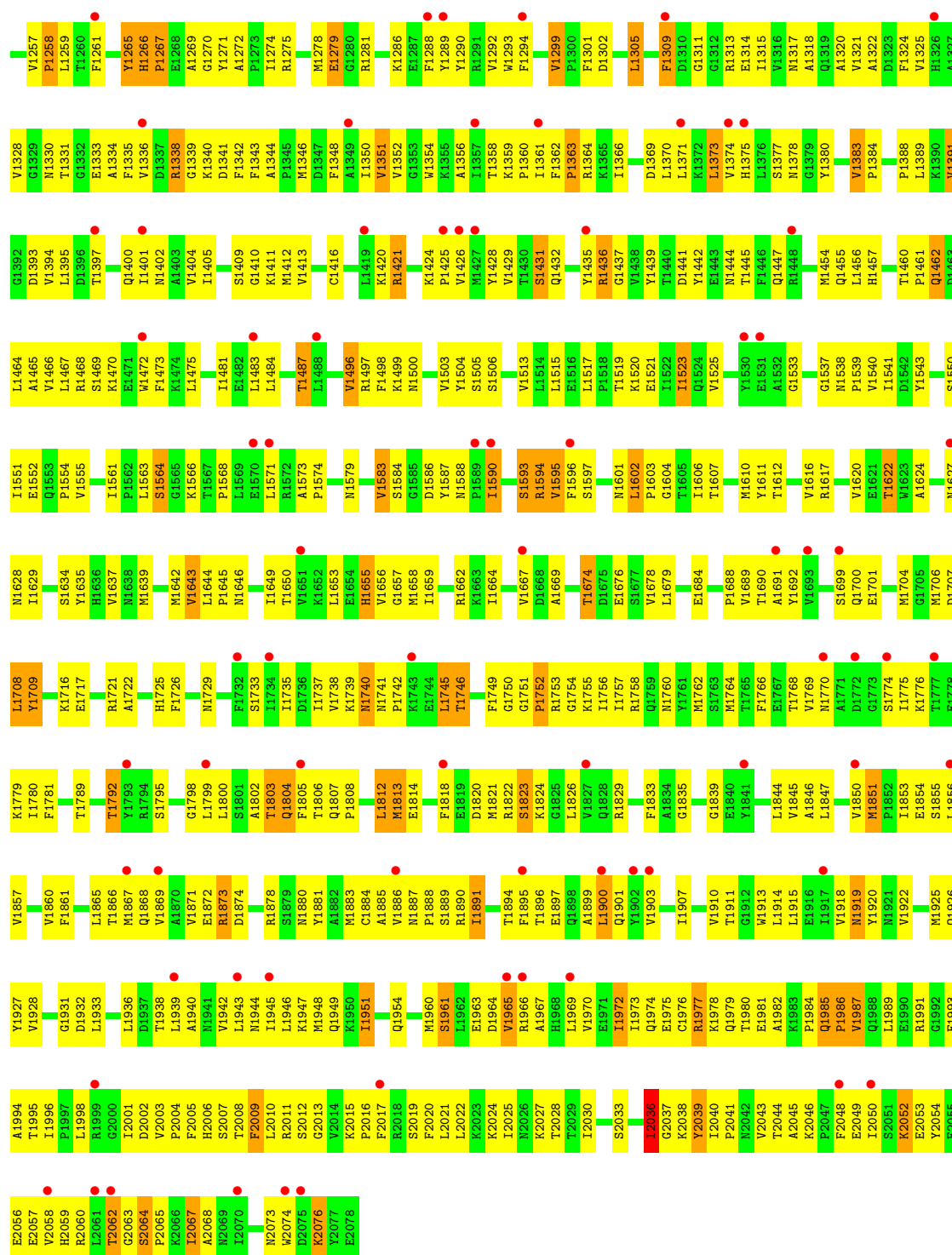
• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



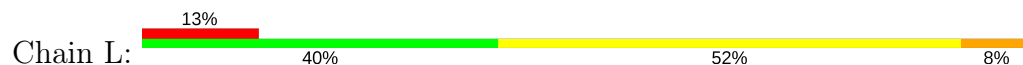
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E1313	H1171	H1171	L1087	K1026	S954	L879	S814	H751	P679	L401	G543	D477	L401	Y326
A1314	R1172	R1172	G1088	L1027	L955	L879	R815	H752	P685	L402	A544	L478	L402	P327
V1316	H1173	H1173	G1089	V1028	K956	K882	N816	F753	P686	L403	I545	L479	L403	R328
N1317	T1244	T1244	I1090	V1029	T959	L883	N817	F754	P687	K409	N549	E480	K409	T329
A1318	T1245	T1245	H1091	F1030	F962	R888	T818	E755	L680	A410	T550	G482	A410	L331
Q1319	L1246	L1246	N1092	V1031	F963	S889	A819	D756	L680	P411	E551	D483	P411	L336
F1320	T1247	T1247	D1093	L1032	I963	S890	K820	F757	A694	L414	K555	D484	L414	L336
F1324	T1250	T1250	H1094	A1033	R964	R891	E822	H758	L694	S339	P556	D485	S339	V340
V1325	T1251	T1251	K1096	L1034	R965	E894	T824	P760	L699	V340	E557	I487	V340	T346
V1257	P1257	P1257	F1097	D1035	R966	K897	S825	L762	E700	P347	L558	E489	P347	T348
G1328	P1258	P1258	L1098	E1036	E968	R898	K826	L763	V701	T348	P559	L490	T348	P349
L1259	L1259	L1259	R1100	M1037	R969	R899	Q827	M764	A702	M350	D560	R492	M350	M350
N1260	T1260	T1260	Y1103	E1039	F970	D900	K829	Y765	N703	L351	R561	M493	L351	S352
F1261	F1261	F1261	D1104	W1041	T971	Y901	Q830	I768	I705	D425	D562	D497	D425	S352
N1262	N1262	N1262	E1107	F1042	E974	I902	A831	C771	Q707	F428	D563	P498	F428	V361
F1263	F1263	F1263	E1107	K1043	G975	I903	T832	S772	T708	V429	N564	P498	V429	V361
Y1264	Y1264	Y1264	V1110	K1044	Q976	K904	V833	N773	L709	N430	A565	N500	N430	T357
H1266	H1266	H1266	V1111	D1045	P977	K905	D834	N773	L709	R431	V566	F507	R431	T357
L1267	L1267	L1267	P1111	S1046	S978	L906	A835	I774	G710	F432	Q567	F507	F432	R358
E1268	E1268	E1268	N1112	L1047	S979	N907	P836	W775	G711	L433	F568	E502	L433	S359
A1269	A1269	A1269	I1113	W1048	L980	D908	G837	L776	R712	P434	V570	T505	P434	A360
D1340	D1340	D1340	E1114	Q1049	Q981	D909	G837	V777	H713	L435	D571	T505	L435	V361
F1342	F1342	F1342	Y1115	S1050	L986	F910	D841	A778	I714	T436	W572	V506	T436	I365
F1343	A1272	A1272	F1116	E1051	P989	Q911	Q842	G779	S715	F507	V573	F507	T436	I365
A1344	P1273	P1273	L1052	L1052	Y913	K912	N843	S780	F716	A367	K574	F507	A367	A367
P1345	M1202	M1202	R1119	L1053	P989	Y913	E844	G781	K717	H440	G577	T511	H440	Q370
M1346	R1275	R1275	L1120	Y1057	Y990	Y914	N845	G782	P718	L444	P578	I513	L444	H371
D1347	M1278	M1278	L1121	Y1058	P991	F915	T846	G783	G719	L372	P579	I513	L372	L372
A1349	E1279	E1279	A1123	Q1059	A992	G916	T847	S785	S720	A447	L580	V514	L580	P373
			T1124	D1060	R995	N918	T851	E786	A723		V581	F516		



R1186	F1187	Q1188	T1189	N1190	P1191	L1192	K1193	L1194	P1195	F1196	A1197	P1198	T1199	R1200	V1203	V1204	T1207	N1208	P1209	P1212	T1215	V1216	L1217	S1218	V1219	R1220	Q1224	S1225	L1226	K1227	L1228	V1229	K1230	T1231	F1232	E1233	L1234	K1235	L1236	V1237	G1238	D1239	N1240	E1241	I1242	A1243	L1244	T1245	L1246	E1248	R1249	R1250	T1251				
L1102	Y1103	D1104	G1105	N1106	E1107	V1110	P1111	S1112	V1113	F1114	E1115	F1116	R1119	I1120	A1123	T1124	N1126	E1127	P1128	A1135	K1141	L1142	S1143	L1146	D1156	V1157	D1158	S1159	F1160	E1081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198					
E1036	W1041	K1042	K1043	K1044	D1045	S1046	L1047	F1048	N1049	Q1050	E1051	D1052	I1053	Y1057	G1068	Q1069	D1070	V1071	T1072	C1065	L1066	L1067	Q1068	S1076	K1077	V1078	L1079	D1080	E081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198						
V966	E967	E968	R969	F970	T971	S972	Q976	P977	S978	L979	L980	Q981	L986	E987	E988	P989	Y990	P991	A992	V993	D994	R995	I996	L997	Y1000	P1001	E1002	A1003	S1004	L1005	Q1006	L1007	I008	R937	N1009	A1010	Q1011	D1012	V1013	L1014	H1015	L1016	L1017	L1018	L1019	G1020	Q1021	H1022	L1023	K1026	P1027	V1028	P1029	F1030	I1031	R963	L1032
A828	K829	Q830	A831	I832	V833	D834	A835	P836	G837	V838	K839	D840	D841	Q842	W843	E844	N845	T846	Y847	T851	V854	D855	L856	V857	D858	S859	E860	M861	G862	E863	I864	R865	K866	L868	A869	T870	G871	G872	V873	V874	F875	W876	K877	E878	I882	D887	K888	S889	K890	R891	E894						
K897	R898	D899	Y900	I901	I902	I903	K904	K905	L906	N907	D908	D909	F910	Q911	K912	V913	N914	F915	G916	R917	N918	V924	D925	L926	E927	D928	M929	T930	Y931	A932	E933	V934	H936	N937	N938	L941	M942	Y943	Y944	K945	H946	W950	I951	D952	P953	S954	K956	Y959	F962	I963	N964	R965					
V966	E967	E968	R969	F970	T971	S972	Q976	P977	S978	L979	L980	Q981	L986	E987	E988	P989	Y990	P991	A992	V993	D994	R995	I996	L997	Y1000	P1001	E1002	A1003	S1004	L1005	Q1006	L1007	I008	R937	N1009	A1010	Q1011	D1012	V1013	L1014	H1015	L1016	L1017	L1018	L1019	G1020	Q1021	H1022	L1023	K1026	P1027	V1028	P1029	F1030	I1031	R963	L1032
E1036	W1041	K1042	K1043	K1044	D1045	S1046	L1047	F1048	N1049	Q1050	E1051	D1052	I1053	Y1057	G1068	Q1069	D1070	V1071	T1072	C1065	L1066	L1067	Q1068	S1076	K1077	V1078	L1079	D1080	E081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198						
L1102	Y1103	D1104	G1105	N1106	E1107	V1110	P1111	S1112	V1113	F1114	E1115	F1116	R1119	I1120	A1123	T1124	N1126	E1127	P1128	A1135	K1141	L1142	S1143	L1146	D1156	V1157	D1158	S1159	F1160	E1081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198					
R1186	F1187	Q1188	T1189	N1190	P1191	L1192	K1193	L1194	P1195	F1196	A1197	P1198	T1199	R1200	V1203	V1204	T1207	N1208	P1209	P1212	T1215	V1216	L1217	S1218	V1219	R1220	Q1224	S1225	L1226	K1227	L1228	V1229	K1230	T1231	F1232	E1233	L1234	K1235	L1236	V1237	G1238	D1239	N1240	E1241	I1242	A1243	L1244	T1245	L1246	E1248	R1249	R1250	T1251				
L1102	Y1103	D1104	G1105	N1106	E1107	V1110	P1111	S1112	V1113	F1114	E1115	F1116	R1119	I1120	A1123	T1124	N1126	E1127	P1128	A1135	K1141	L1142	S1143	L1146	D1156	V1157	D1158	S1159	F1160	E1081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198					
E1036	W1041	K1042	K1043	K1044	D1045	S1046	L1047	F1048	N1049	Q1050	E1051	D1052	I1053	Y1057	G1068	Q1069	D1070	V1071	T1072	C1065	L1066	L1067	Q1068	S1076	K1077	V1078	L1079	D1080	E081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198						
V966	E967	E968	R969	F970	T971	S972	Q976	P977	S978	L979	L980	Q981	L986	E987	E988	P989	Y990	P991	A992	V993	D994	R995	I996	L997	Y1000	P1001	E1002	A1003	S1004	L1005	Q1006	L1007	I008	R937	N1009	A1010	Q1011	D1012	V1013	L1014	H1015	L1016	L1017	L1018	L1019	G1020	Q1021	H1022	L1023	K1026	P1027	V1028	P1029	F1030	I1031	R963	L1032
A828	K829	Q830	A831	I832	V833	D834	A835	P836	G837	V838	K839	D840	D841	Q842	W843	E844	N845	T846	Y847	T851	V854	D855	L856	V857	D858	S859	E860	M861	G862	E863	I864	R865	K866	L868	A869	T870	G871	G872	V873	V874	F875	W876	K877	E878	I882	D887	K888	S889	K890	R891	E894						
K897	R898	D899	Y900	I901	I902	I903	K904	K905	L906	N907	D908	D909	F910	Q911	K912	V913	N914	F915	G916	R917	N918	V924	D925	L926	E927	D928	M929	T930	Y931	A932	E933	V934	H936	N937	N938	L941	M942	Y943	Y944	K945	H946	W950	I951	D952	P953	S954	K956	Y959	F962	I963	N964	R965					
V966	E967	E968	R969	F970	T971	S972	Q976	P977	S978	L979	L980	Q981	L986	E987	E988	P989	Y990	P991	A992	V993	D994	R995	I996	L997	Y1000	P1001	E1002	A1003	S1004	L1005	Q1006	L1007	I008	R937	N1009	A1010	Q1011	D1012	V1013	L1014	H1015	L1016	L1017	L1018	L1019	G1020	Q1021	H1022	L1023	K1026	P1027	V1028	P1029	F1030	I1031	R963	L1032
E1036	W1041	K1042	K1043	K1044	D1045	S1046	L1047	F1048	N1049	Q1050	E1051	D1052	I1053	Y1057	G1068	Q1069	D1070	V1071	T1072	C1065	L1066	L1067	Q1068	S1076	K1077	V1078	L1079	D1080	E081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198						
L1102	Y1103	D1104	G1105	N1106	E1107	V1110	P1111	S1112	V1113	F1114	E1115	F1116	R1119	I1120	A1123	T1124	N1126	E1127	P1128	A1135	K1141	L1142	S1143	L1146	D1156	V1157	D1158	S1159	F1160	E1081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198					
R1186	F1187	Q1188	T1189	N1190	P1191	L1192	K1193	L1194	P1195	F1196	A1197	P1198	T1199	R1200	V1203	V1204	T1207	N1208	P1209	P1212	T1215	V1216	L1217	S1218	V1219	R1220	Q1224	S1225	L1226	K1227	L1228	V1229	K1230	T1231	F1232	E1233	L1234	K1235	L1236	V1237	G1238	D1239	N1240	E1241	I1242	A1243	L1244	T1245	L1246	E1248	R1249	R1250	T1251				
L1102	Y1103	D1104	G1105	N1106	E1107	V1110	P1111	S1112	V1113	F1114	E1115	F1116	R1119	I1120	A1123	T1124	N1126	E1127	P1128	A1135	K1141	L1142	S1143	L1146	D1156	V1157	D1158	S1159	F1160	E1081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198					
E1036	W1041	K1042	K1043	K1044	D1045	S1046	L1047	F1048	N1049	Q1050	E1051	D1052	I1053	Y1057	G1068	Q1069	D1070	V1071	T1072	C1065	L1066	L1067	Q1068	S1076	K1077	V1078	L1079	D1080	E081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198						
V966	E967	E968	R969	F970	T971	S972	Q976	P977	S978	L979	L980	Q981	L986	E987	E988	P989	Y990	P991	A992	V993	D994	R995	I996	L997	Y1000	P1001	E1002	A1003	S1004	L1005	Q1006	L1007	I008	R937	N1009	A1010	Q1011	D1012	V1013	L1014	H1015	L1016	L1017	L1018	L1019	G1020	Q1021	H1022	L1023	K1026	P1027	V1028	P1029	F1030	I1031	R963	L1032
A828	K829	Q830	A831	I832	V833	D834	A835	P836	G837	V838	K839	D840	D841	Q842	W843	E844	N845	T846	Y847	T851	V854	D855	L856	V857	D858	S859	E860	M861	G862	E863	I864	R865	K866	L868	A869	T870	G871	G872	V873	V874	F875	W876	K877	E878	I882	D887	K888	S889	K890	R891	E894						
K897	R898	D899	Y900	I901	I902	I903	K904	K905	L906	N907	D908	D909	F910	Q911	K912	V913	N914	F915	G916	R917	N918	V924	D925	L926	E927	D928	M929	T930	Y931	A932	E933	V934	H936	N937	N938	L941	M942	Y943	Y944	K945	H946	W950	I951	D952	P953	S954	K956	Y959	F962	I963	N964	R965					
V966	E967	E968	R969	F970	T971	S972	Q976	P977	S978	L979	L980	Q981	L986	E987	E988	P989	Y990	P991	A992	V993	D994	R995	I996	L997	Y1000	P1001	E1002	A1003	S1004	L1005	Q1006	L1007	I008	R937	N1009	A1010	Q1011	D1012	V1013	L1014	H1015	L1016	L1017	L1018	L1019	G1020	Q1021	H1022	L1023	K1026	P1027	V1028	P1029	F1030	I1031	R963	L1032
E1036	W1041	K1042	K1043	K1044	D1045	S1046	L1047	F1048	N1049	Q1050	E1051	D1052	I1053	Y1057	G1068	Q1069	D1070	V1071	T1072	C1065	L1066	L1067	Q1068	S1076	K1077	V1078	L1079	D1080	E081	P1082	I1083	K1084	D1085	I1086	L1087	D1088	G1089	H1090	H1091	M1092	F1093	H1094	I1095	F1096	F1097	L1098	R1099	H1198	T1179	L1181	H1198						
L1102	Y1103	D1104																																																							



Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



A1073	I1008	R937	I865	Y802	P738	L662	V590	G517	H448	E374	W301	H232	I169	H95
K1074	M1009	H938	H866	P803	I739	I663	D591	P518	H451	D375	D302	H233	Y170	P96
Y1075	A1010		H867	P804	I740	Y664		G519		R376	F304	P234	S171	T97
S1076	Q1011	L941	L868	M805	I741	V665	M594	G520	I451	R377	F305		I172	N98
K1077	D1012	N942	L869	P806	Q742	V666	S595	S521	V455	R378	A306	Y242	F173	L99
Y1078	Y403	Y943	T870	F807	W743	P667	S596	S522		G379	T305		G174	E100
I1079	Q1013	Y944	R871	D808	T744	R668	L597	G523	K459	I380	A307	S245	G175	V101
D1080	H1015	K945	F875	Q809	G745	A669	L598	I524	K460	S381	K309	A246	Q176	L102
E1081	P1016	H946	W876	C810	G746	M670	G599		P461	L382	R310	P247	Q177	K103
P1082	L1017	E947	M811	M812	R747	G671	V600		A462	V383	A311	V248	G178	L104
K1083	L1018		R812	G813	G748	W672	P601	L527	S463		V312	S249	I179	I105
K1084	C1020		S814	N529	G749	Q673	P602	T528	S464		K309	F250	I180	L106
D1085	Q1021	I951	R815	R530	W750	L674	V603	H530	L465		K314	P251	E181	N107
I1086	D852	D852	R816	R531	H751	P675	M604	N531	L466		L315	L252	F182	E108
L1087	P953		M817	D533	H752	L676	V605	D533	I467		F316	L253	E185	F109
D1088	S954		G607	G534	W753	L677	A606	D533	P468		W317	L254	E186	E110
G1089	L955		N608	G608	F754		G607	T535	V469		I318	L255	L187	R111
I1090	K1026	K956	V685	G609	W755	V686	N609	G536	Y470		R321	V256	R188	A112
H1091	P1027		P686	T609	D756	I687	P610	G537	D471			Q257	F113	F113
N1092	V1028	T959	I687	P611	F757		T611		T472		A325		I189	M114
D1093	P1029		L690	T612	H758		T612		K473		Y326	H260	Y190	
H1094	F1030	F962	L691	W613	Q759		W613	I540	T474		Y327	Y261	T191	N117
I1095	V1031	E894	T824	P614	P760		P614	L541	G475		P327	M262	T192	D118
K1096	P1032	R964	S825	N615	I761		N615	A542	Q476		Y193	I263	Y193	V119
F1097	A1033	R965	K826	Q827	L762		N616	G543	D477		T329	T264	P194	H120
L1098		V966	R898	Q828	L763		D616		L478		S330	C255	S195	A121
L1099	E1036	E967	R899	A828	W764		P617	N549	K479		L331	K266	F196	I122
R1100		E968	D900	K829	Y765		V618	T550	E480		L336	T267	V197	A123
	W1041		K890	Q830				E551	L481			L268		
Y1103	F1042	T971	T903	L832	I768		T621	G553	D483		S339	G269	L200	V126
D1104	K1043		E984	V833			N622		E484		Y340	R270	T201	A127
G1105	D1045	E974	K905	D834			N623		D485		E341	E271	T202	G128
E1107	S1046		L906	A835					I486		N342	G273	G203	I129
	P1047	P977	N907	P836			Y626	E557	L487			L276	T204	K132
V1110	W1048	S978	D908	G837			Y627	L558	P488		T346		L207	I134
P1111	Q1049	L979	G838	W776			Y628	F559	P489		P347		L208	G135
Y1112	S1050	L980	V838	I777			Y629	D560	L490		P349		Q209	Y136
I1113	E1051	Q981	D839	G779			L630	B561	V491		M350		L211	R138
Y1115	D1052		D840	G780			A631		M493		S352		A212	A139
F1116	E1054	L986	D942	F782			A632		D497		I353		R213	Y140
	A1055	E987	W843	G783			G633	Q567	P498				D216	K152
	V1056	E988	G844	G784			G634	F568	V499		L356		A217	P153
Y1057	Y1057	P991	N945	S785			Y635	A569	W501		R357		V218	Y154
G1058	G1058	A992	T946	G786			A638	D571	E502		S359		Q220	D155
A1123	D1060		Y947	D787							V361		Y221	S156
V1061	V1061	R995	T851	P790			S646	P578			A292		P222	A157
G1062	G1062	L996	V854	Y791			G647	L580			A293		K223	L158
R1063	R1063	L997	T855	L792			T643	V581			D366		G224	F159
C1065	C1065		T856	T793			E649	V581			A294		L225	R160
I1066	I1066	Y1000	N929	G794				V581			A294		D226	A161
D1129	P1001		T857	S795			Y652	T583			T368		I227	A162
E1067	E1067	E1003	Y931	W796			P653	S584			A296		L228	
Q1068	Q1068		F860	S797			P654				Q370		Q229	
G1069	G1069	S1004	M861	T798			G655				H371		W230	
L1133	L1133		E933	T798			R656	Q587			L372		A298	
T1134	T1134	I1005	Y934	K799				T588					R299	
A1135	A1135	Q1006	E863	F800			N661	F589					L231	
		L1007	H936	G801										K168

K2066	V2003	T1938	D1874	T1806	I1734	T1850	V1583	Y1504	V1429	P1360	F1288	Y1216	K1141
I2067	P2004	L1939	R1878	Q1807	I1735	L1853	S1584	S1505	T1430	I1361	Y1289	I1217	I1142
N2068	P2005	A1940	S1879	A1809		L1854	G1585	S1506	Q1431	P1362	Y1290	S1218	S1143
	H2006	N1941	S1878	A1808	V1738	H1855	G1586	S1507	S1432	P1363	R1291	Y1219	Y1144
	S2007	L1942	N1880	T1810	K1739	H1856	Y1587	Q1508	Y1433	K1365	W1292	R1220	L1145
	T2008	L1943	N1881	T1811	N1740	V1556	Y1588	L1510	L1434	R1366	W1293		
	P2009	N1944	A1882	L1812	N1741	G1857	P1589		Y1435		F1294	Q1224	L1146
	L2010	L1945	M1883	M1813	P1742	G1858	I1590	V1513	R1436			S1225	D1156
	R2011	L1946	C1884	E1814	K1743	I1659	H1591	L1514	A1437	D1369	V1299	A1226	V1157
	S2012	K1947	A1885	F1818	L1744	R1662	S1592	L1515	V1438	L1370	F1300	K1227	V1157
	G2013	M1948	V1886	F1819	T1745		S1593	L1516	L1439	L1371	F1301	L1228	S1159
		Q1949	N1887	E1820	T1746	K1663	R1594	E1516	T1440	K1372	D1302	V1229	F1160
	K2015	Q1950	P1888	D1820		I1664	V1595	L1517	D1441	L1373	K1230	K1230	M1161
	P2016	L1951	S1888	M1821	F1749		F1596	F1516	Y1442	V1374	L1305	T1231	
	F2017	D1952	S1890	R1822	G1750	V1667	S1597	T1519	E1443	H1375		V1232	I1164
	R2018	L1953	K1824	S1823	G1751	A1669	S1598	K1520	N1444	L1376	F1309	E1233	
	S2019	Q1954	I1891	K1824	P1752		Y1599	E1521	T1445	S1377	F1301	L1228	
				G1825	R1753		A1600	I1522	F1446	G1378	D1302	K1235	
	L2021		T1894	L1826	G1754	T1674	N1601	I1523	Q1447	G1379		L1236	
	L2022		F1895		K1755	D1675	L1602	Q1524	R1448	Y1380		V1237	
			T1896			E1676	L1603	V1525					
			E1897	R1829			P1603						
	I2025		Q1898				G1604						
	N2026		A1899	F1833	R1757	S1677	T1605	V1528	M1454	V1383		D1239	
	K2027		V1900	G1835	R1758	V1678	T1606	E1529	Q1455	V1316		M1240	
			Q1901	A1834	Q1759	L1679	I1606	Y1530	H1456	N1317		E1241	
			Y1902	H1836	N1760	G1880	T1607		H1457	A1318		I1242	
	I2030		V1903		Y1761					Q1319		A1243	
			V1904	G1839	M1762	E1684	M1610	G1533	T1460	L1389			
	S2033		E1905	E1840	S1763		Y1611		T1461	A1320		I1244	
	K2034		E1906	Y1841	M1764	P1688	T1612	G1537	Q1462	V1391		T1245	
	L2035		N1906	Y1842	T1765	P1689	V1616	N1538	D1463	F1324		F1247	
	T2036		I1907	S1842	F1766	T1690	G1617	P1540	L1464	N1325		F1247	
	K2037		A1908	A1843	E1767	A1691	S1618	V1549	A1465	H1326		E1248	
	R2038		E1909	L1844	T1768	V1692	S1619	I1541	V1466			Q1249	
	Y2039		V1910	V1845	V1769	F1693	L1619	D1542	L1467	L1397		R1250	
	P2041			A1846	N1770	F1694	V1620	Y1543	R1468	T1398		T1251	
			W1913	L1847			E1621		S1469	A1399			
	N2042		L1914	A1848	S1774	Q1700	T1622	S1550		Q1400		V1257	
	V2043		L1915	D1849	I1775	E1701	Y1623	I1551		I1401		P1258	
	T2044		E1916		K1776		A1624	E1552		N1402		L1259	
	A2045		V1918	M1851	K1779	M1704		Q1553		R1338		F1260	
	K2046		N1919	P1852	I1780	G1705	N1627	P1554		G1339		F1261	
	P2047		Y1920	E1854	F1781	M1706	I1628	P1554		A1403		R1262	
	F2048		N1921	S1855	K1782	L1708	I1629	V1555		V1404		F1263	
	E2049		V1922	L1856	E1783	Y1709				N1405		F1263	
	I2050		A1923	V1857			V1632	P1560		F1342		T1264	
	S2051		N1924	S1858		K1716	R1633	I1561		F1343		Y1265	
	E2053		M1925	V1859		E1717	S1634	P1562		A1344		H1266	
	Y2054		Q1926	V1860	T1792		Y1635	S1564		P1345		P1267	
	P2055		Y1927	F1861		R1721	H1836	G1565		D1347		A1268	
	E2056		V1928		S1795	A1722	M1638	K1566		F1348		G1270	
	E2057		A1929				M1639	T1567		A1349		Y1271	
	V2058		A1930	L1865	G1798	H1724		P1569		I1350		A1272	
	H2059		G1931	T1866	L1799	K1725	M1642	K1420		V1352		P1273	
	R2060		D1932	M1867	S1800	F1726	V1643	R1421		G1353		R1275	
			L1933	V1869	L1801	R1727	L1644	K1424		W1354		M1278	
	L2061		R1934	A1870	A1802	E1728	P1645	P1425		K1355		E1279	
	T2062		A1936	V1871	T1803		M1646	V1426		A1356			
	G2063		L1936	E1872	Q1804	Y1730		M1427		T1357		R1281	
	P2065		D1937	R1873	F1805			Y1580					T1215

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	215.78Å 412.67Å 220.90Å 90.00° 111.57° 90.00°	Depositor
Resolution (Å)	12.00 – 3.10 96.48 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.7 (12.00-3.10) 92.6 (96.48-3.10)	Depositor EDS
R_{merge}	0.24	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.89 (at 3.13Å)	Xtriage
Refinement program	PHENIX.REFINE	Depositor
R, R_{free}	0.270 , 0.300 0.247 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	66.0	Xtriage
Anisotropy	0.182	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 64.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.21$	Xtriage
Estimated twinning fraction	0.078 for l,-k,h	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	167247	wwPDB-VP
Average B, all atoms (Å ²)	75.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.40% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.43	0/11744	0.60	1/15873 (0.0%)
1	B	0.43	0/11801	0.60	1/15949 (0.0%)
1	C	0.44	0/11785	0.59	0/15928
1	D	0.43	0/11824	0.60	0/15980
1	E	0.42	0/11736	0.59	0/15863
1	F	0.44	0/11776	0.60	5/15916 (0.0%)
2	G	0.36	0/16573	0.53	0/22516
2	H	0.35	0/16573	0.53	0/22516
2	I	0.35	0/16573	0.53	0/22516
2	J	0.36	0/16573	0.54	0/22516
2	K	0.39	0/16573	0.55	0/22516
2	L	0.36	0/16573	0.54	0/22516
All	All	0.39	0/170104	0.56	7/230605 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	F	0	1
All	All	0	2

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	585	MET	N-CA-C	9.44	136.48	111.00
1	B	608	LYS	N-CA-C	-8.94	86.85	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	614	PHE	N-CA-C	6.04	127.30	111.00
1	F	613	PRO	CA-C-N	5.57	129.46	117.20
1	A	579	MET	N-CA-C	5.39	125.55	111.00
1	F	613	PRO	C-N-CA	5.04	134.30	121.70
1	F	585	MET	CB-CA-C	-5.02	100.36	110.40

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	578	ALA	Peptide
1	F	613	PRO	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11514	0	11476	746	1
1	B	11571	0	11529	708	1
1	C	11555	0	11507	717	0
1	D	11593	0	11552	725	0
1	E	11506	0	11467	754	0
1	F	11546	0	11499	701	0
2	G	16200	0	16081	1290	1
2	H	16200	0	16081	1326	1
2	I	16200	0	16081	1344	0
2	J	16200	0	16081	1326	0
2	K	16200	0	16081	1391	0
2	L	16200	0	16081	1366	0
3	A	48	0	25	5	0
3	B	48	0	25	5	0
3	C	48	0	25	4	0
3	D	48	0	25	6	0
3	E	48	0	25	4	0
3	F	48	0	25	4	0
3	G	48	0	25	4	0
3	H	48	0	25	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	I	48	0	25	4	0
3	J	48	0	25	4	0
3	K	48	0	25	4	0
3	L	48	0	25	4	0
4	G	31	0	19	17	0
4	H	31	0	19	16	0
4	I	31	0	19	16	0
4	J	31	0	19	15	0
4	K	31	0	19	15	0
4	L	31	0	19	15	0
All	All	167247	0	165930	11767	2

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 35.

All (11767) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:542:GLN:HB3	1:D:579:MET:HE2	1.25	1.17
1:F:1443:LEU:HD21	1:F:1470:ARG:HB3	1.18	1.17
1:B:1268:SER:HB3	1:D:1389:ILE:HG13	1.23	1.16
1:F:1504:ARG:HH11	1:F:1504:ARG:HG3	1.04	1.15
1:D:1504:ARG:HH11	1:D:1504:ARG:HG3	1.02	1.15
1:C:1443:LEU:HD21	1:C:1470:ARG:HB3	1.18	1.14
1:E:1278:GLY:H	1:E:1282:THR:HG22	1.13	1.14
1:B:1443:LEU:HD21	1:B:1470:ARG:HB3	1.16	1.13
2:H:1594:ARG:HH11	2:H:1594:ARG:HG2	1.13	1.12
1:B:397:ARG:HH11	1:B:397:ARG:HG2	1.14	1.12
1:B:1504:ARG:HH11	1:B:1504:ARG:HG3	1.03	1.12
1:A:1443:LEU:HD21	1:A:1470:ARG:HB3	1.14	1.11
2:L:1594:ARG:HG2	2:L:1594:ARG:HH11	1.15	1.11
1:A:1278:GLY:H	1:A:1282:THR:HG22	1.11	1.11
1:E:1443:LEU:HD21	1:E:1470:ARG:HB3	1.14	1.11
2:I:1594:ARG:HH11	2:I:1594:ARG:HG2	1.08	1.11
1:A:1389:ILE:HG13	1:E:1268:SER:HB3	1.29	1.10
1:B:1389:ILE:HG13	1:D:1268:SER:HB3	1.27	1.10
2:J:1594:ARG:HG2	2:J:1594:ARG:HH11	1.09	1.10
1:C:1268:SER:HB3	1:F:1389:ILE:HG13	1.29	1.10
1:E:1504:ARG:HG3	1:E:1504:ARG:HH11	1.06	1.10
1:D:397:ARG:HG2	1:D:397:ARG:HH11	1.13	1.09
1:A:1504:ARG:HH11	1:A:1504:ARG:HG3	1.04	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:397:ARG:HG2	1:E:397:ARG:HH11	1.15	1.09
1:C:1389:ILE:HG13	1:F:1268:SER:HB3	1.28	1.09
1:C:1278:GLY:H	1:C:1282:THR:HG22	1.11	1.08
1:A:1268:SER:HB3	1:E:1389:ILE:HG13	1.35	1.08
1:D:1342:ARG:NH1	1:D:1347:THR:HB	1.68	1.08
1:F:397:ARG:HG2	1:F:397:ARG:HH11	1.16	1.08
1:F:1278:GLY:H	1:F:1282:THR:HG22	1.15	1.08
1:D:1443:LEU:HD21	1:D:1470:ARG:HB3	1.16	1.08
1:C:397:ARG:HH11	1:C:397:ARG:HG2	1.14	1.08
2:H:374:GLU:HA	2:H:377:HIS:CD2	1.89	1.07
1:B:427:ARG:HH12	1:B:492:ILE:HG23	1.18	1.07
1:B:1342:ARG:NH1	1:B:1347:THR:HB	1.69	1.07
2:I:610:PRO:HD2	4:I:2101:FMN:H6	1.35	1.07
1:C:1342:ARG:NH1	1:C:1347:THR:HB	1.68	1.06
2:K:1594:ARG:HG2	2:K:1594:ARG:HH11	1.18	1.06
2:G:511:THR:HG22	2:G:512:HIS:CD2	1.89	1.06
2:K:1194:ARG:HG3	2:K:1194:ARG:HH11	0.90	1.06
1:F:427:ARG:HH12	1:F:492:ILE:HG23	1.15	1.06
2:H:846:THR:HG21	2:H:866:HIS:CD2	1.90	1.06
2:K:846:THR:HG21	2:K:866:HIS:CD2	1.90	1.06
2:L:374:GLU:HA	2:L:377:HIS:CD2	1.90	1.06
1:C:1504:ARG:HH11	1:C:1504:ARG:HG3	0.99	1.06
2:I:511:THR:HG22	2:I:512:HIS:CD2	1.89	1.06
1:A:397:ARG:HH11	1:A:397:ARG:HG2	1.16	1.06
2:L:511:THR:HG22	2:L:512:HIS:CD2	1.91	1.06
1:E:1342:ARG:NH1	1:E:1347:THR:HB	1.71	1.05
2:H:511:THR:HG22	2:H:512:HIS:CD2	1.91	1.05
2:I:374:GLU:HA	2:I:377:HIS:CD2	1.90	1.05
1:F:1342:ARG:NH1	1:F:1347:THR:HB	1.69	1.05
1:E:965:TYR:CZ	1:E:1199:LEU:HD22	1.91	1.05
2:I:1194:ARG:HG3	2:I:1194:ARG:HH11	0.94	1.05
1:E:557:ARG:HH11	1:E:557:ARG:HG3	1.19	1.05
2:J:1194:ARG:HH11	2:J:1194:ARG:HG3	0.89	1.05
2:J:374:GLU:HA	2:J:377:HIS:CD2	1.92	1.05
1:A:1342:ARG:NH1	1:A:1347:THR:HB	1.71	1.05
1:B:1278:GLY:H	1:B:1282:THR:HG22	1.15	1.05
2:L:846:THR:HG21	2:L:866:HIS:CD2	1.92	1.05
1:C:365:GLN:HG3	1:D:365:GLN:HG3	1.36	1.05
2:K:610:PRO:HD2	4:K:2101:FMN:H6	1.36	1.04
2:L:1194:ARG:HG3	2:L:1194:ARG:HH11	0.93	1.04
1:B:1148:LEU:HD13	1:D:1148:LEU:HD13	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1594:ARG:HH11	2:G:1594:ARG:HG2	1.15	1.04
2:H:610:PRO:HD2	4:H:2101:FMN:H6	1.36	1.04
2:G:846:THR:HG21	2:G:866:HIS:CD2	1.92	1.04
2:J:511:THR:HG22	2:J:512:HIS:CD2	1.93	1.04
1:D:1702:ARG:HH11	1:D:1702:ARG:CG	1.69	1.04
2:K:374:GLU:HA	2:K:377:HIS:CD2	1.91	1.04
2:H:1194:ARG:HH11	2:H:1194:ARG:HG3	0.93	1.04
2:L:595:SER:HB3	2:L:602:PRO:HG3	1.39	1.04
1:C:1702:ARG:HH11	1:C:1702:ARG:CG	1.70	1.03
2:J:610:PRO:HD2	4:J:2101:FMN:H6	1.36	1.03
2:H:2052:LYS:HD3	2:H:2074:TRP:NE1	1.72	1.03
1:A:557:ARG:HG3	1:A:557:ARG:HH11	1.21	1.03
1:B:1702:ARG:CG	1:B:1702:ARG:HH11	1.69	1.03
2:L:610:PRO:HD2	4:L:2101:FMN:H6	1.35	1.03
1:A:365:GLN:HG3	1:F:365:GLN:HG3	1.39	1.03
2:J:2052:LYS:HD3	2:J:2074:TRP:NE1	1.73	1.03
1:B:535:TYR:OH	1:B:630:LYS:HE3	1.58	1.03
2:L:2052:LYS:HD3	2:L:2074:TRP:NE1	1.73	1.02
1:D:1278:GLY:H	1:D:1282:THR:HG22	1.23	1.02
2:L:1115:TYR:HB3	2:L:1267:PRO:HB3	1.38	1.02
1:D:557:ARG:HG3	1:D:557:ARG:HH11	1.19	1.02
2:J:846:THR:HG21	2:J:866:HIS:CD2	1.94	1.02
2:G:374:GLU:HA	2:G:377:HIS:CD2	1.93	1.02
1:B:1499:ARG:HD3	1:D:1476:ARG:HH12	1.19	1.02
1:E:427:ARG:HG3	1:E:427:ARG:HH11	1.21	1.02
2:J:1194:ARG:NH1	2:J:1194:ARG:HG3	1.68	1.02
2:I:846:THR:HG21	2:I:866:HIS:CD2	1.94	1.02
1:E:1702:ARG:HH11	1:E:1702:ARG:CG	1.72	1.01
2:K:685:VAL:HG23	2:K:1186:ARG:HH12	1.17	1.01
1:B:365:GLN:HG3	1:E:365:GLN:HG3	1.42	1.01
1:F:427:ARG:HG3	1:F:427:ARG:HH11	1.21	1.01
1:D:427:ARG:HH11	1:D:427:ARG:HG3	1.24	1.01
2:G:1194:ARG:HG3	2:G:1194:ARG:HH11	0.89	1.01
2:L:917:ARG:HH11	2:L:917:ARG:CG	1.74	1.01
2:I:2052:LYS:HD3	2:I:2074:TRP:NE1	1.75	1.01
1:F:1079:ARG:HH11	1:F:1079:ARG:HG2	1.26	1.01
2:G:1194:ARG:HG3	2:G:1194:ARG:NH1	1.67	1.01
2:G:2052:LYS:HD3	2:G:2074:TRP:NE1	1.76	1.01
2:K:1200:ARG:H	2:K:1200:ARG:HD3	1.25	1.01
1:B:427:ARG:HH11	1:B:427:ARG:HG3	1.23	1.01
1:E:1672:GLY:HA3	1:E:1678:LEU:HD23	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:595:SER:HB3	2:J:602:PRO:HG3	1.42	1.01
2:K:2052:LYS:HD3	2:K:2074:TRP:NE1	1.76	1.01
1:A:1672:GLY:HA3	1:A:1678:LEU:HD23	1.41	1.00
2:G:752:HIS:HE1	2:G:847:TYR:HE2	1.04	1.00
2:G:595:SER:HB3	2:G:602:PRO:HG3	1.39	1.00
2:G:610:PRO:HD2	4:G:2101:FMN:H6	1.38	1.00
1:A:1476:ARG:HH12	1:E:1499:ARG:HD3	1.26	1.00
2:L:1200:ARG:H	2:L:1200:ARG:HD3	1.26	1.00
1:F:1702:ARG:HH11	1:F:1702:ARG:CG	1.74	1.00
1:A:427:ARG:HH11	1:A:427:ARG:HG3	1.25	1.00
2:H:917:ARG:HH11	2:H:917:ARG:CG	1.75	1.00
2:I:917:ARG:CG	2:I:917:ARG:HH11	1.75	1.00
2:I:595:SER:HB3	2:I:602:PRO:HG3	1.43	1.00
2:J:752:HIS:HE1	2:J:847:TYR:HE2	1.07	1.00
1:D:527:ALA:HB2	1:D:637:LEU:HD22	1.42	1.00
2:K:1194:ARG:HG3	2:K:1194:ARG:NH1	1.69	1.00
1:C:1504:ARG:CG	1:C:1504:ARG:HH11	1.75	1.00
1:D:1079:ARG:HG2	1:D:1079:ARG:HH11	1.26	1.00
2:H:595:SER:HB3	2:H:602:PRO:HG3	1.42	0.99
1:F:397:ARG:HH11	1:F:397:ARG:CG	1.75	0.99
2:K:595:SER:HB3	2:K:602:PRO:HG3	1.40	0.99
2:H:1194:ARG:NH1	2:H:1194:ARG:HG3	1.72	0.98
2:J:1610:MET:HA	2:J:1610:MET:HE2	1.43	0.98
2:J:1200:ARG:HD3	2:J:1200:ARG:H	1.28	0.98
2:K:511:THR:HG22	2:K:512:HIS:CD2	1.97	0.98
2:G:2033:SER:HA	2:G:2036:ILE:HG13	1.46	0.98
1:A:1702:ARG:HH11	1:A:1702:ARG:CG	1.75	0.98
1:E:989:ASN:H	1:E:1491:ASN:HD21	1.10	0.98
2:L:917:ARG:HG3	2:L:917:ARG:HH11	1.29	0.98
1:E:998:GLY:HA3	1:E:1361:VAL:HG13	1.43	0.97
1:B:397:ARG:HH11	1:B:397:ARG:CG	1.77	0.97
1:C:427:ARG:HG3	1:C:427:ARG:HH11	1.26	0.97
2:I:1200:ARG:HD3	2:I:1200:ARG:H	1.28	0.97
2:H:2033:SER:HA	2:H:2036:ILE:HG13	1.47	0.97
1:C:397:ARG:HH11	1:C:397:ARG:CG	1.77	0.97
2:K:917:ARG:HH11	2:K:917:ARG:CG	1.77	0.97
1:D:406:ALA:HA	1:D:439:ARG:HH11	1.30	0.97
1:B:1079:ARG:HG2	1:B:1079:ARG:HH11	1.30	0.97
2:L:752:HIS:HE1	2:L:847:TYR:HE2	1.06	0.97
1:B:989:ASN:H	1:B:1491:ASN:HD21	1.07	0.96
1:F:1504:ARG:HH11	1:F:1504:ARG:CG	1.78	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1703:VAL:HG11	1:F:1711:LEU:HB3	1.43	0.96
2:G:1200:ARG:HD3	2:G:1200:ARG:H	1.28	0.96
1:E:532:ILE:CG2	1:E:907:PHE:HB2	1.95	0.96
2:K:846:THR:HG21	2:K:866:HIS:HD2	1.28	0.96
2:H:1200:ARG:H	2:H:1200:ARG:HD3	1.28	0.96
2:I:1048:TRP:CE2	2:I:1049:GLN:HG2	2.00	0.96
1:A:998:GLY:HA3	1:A:1361:VAL:HG13	1.45	0.96
2:I:2033:SER:HA	2:I:2036:ILE:HG13	1.46	0.96
2:L:1637:VAL:HG11	2:L:1679:LEU:HD13	1.48	0.96
1:A:1278:GLY:N	1:A:1282:THR:HG22	1.81	0.96
1:C:881:LEU:HA	1:C:884:MET:HG3	1.47	0.96
2:I:917:ARG:HG3	2:I:917:ARG:HH11	1.28	0.96
1:D:998:GLY:HA3	1:D:1361:VAL:HG13	1.46	0.95
1:E:397:ARG:HH11	1:E:397:ARG:CG	1.79	0.95
2:L:1610:MET:HE2	2:L:1610:MET:HA	1.47	0.95
1:A:1079:ARG:HH11	1:A:1079:ARG:HG2	1.29	0.95
2:L:1048:TRP:CE2	2:L:1049:GLN:HG2	2.01	0.95
1:A:1504:ARG:HH11	1:A:1504:ARG:CG	1.79	0.95
2:G:750:GLY:HA2	2:G:865:ILE:HG23	1.47	0.95
2:G:917:ARG:HH11	2:G:917:ARG:CG	1.78	0.95
2:K:501:TRP:HE1	2:K:528:THR:HG22	1.28	0.95
2:J:1008:ILE:HD12	2:J:1013:VAL:HG22	1.48	0.95
2:J:917:ARG:CG	2:J:917:ARG:HH11	1.79	0.95
1:A:397:ARG:HH11	1:A:397:ARG:CG	1.80	0.95
1:C:1079:ARG:HG2	1:C:1079:ARG:HH11	1.31	0.95
1:C:427:ARG:HH12	1:C:492:ILE:HG23	1.30	0.95
1:B:998:GLY:HA3	1:B:1361:VAL:HG13	1.44	0.95
2:J:1868:GLN:HG2	2:J:1873:ARG:NH2	1.81	0.95
2:J:1048:TRP:CE2	2:J:1049:GLN:HG2	2.02	0.95
2:J:2033:SER:HA	2:J:2036:ILE:HG13	1.48	0.95
1:E:1504:ARG:CG	1:E:1504:ARG:HH11	1.80	0.94
2:I:501:TRP:HE1	2:I:528:THR:HG22	1.32	0.94
2:K:582:LYS:HB2	2:K:1112:VAL:HG22	1.45	0.94
1:C:1278:GLY:N	1:C:1282:THR:HG22	1.81	0.94
2:L:846:THR:HG21	2:L:866:HIS:HD2	1.30	0.94
2:L:158:LEU:HA	2:L:566:VAL:HG21	1.47	0.94
1:F:1663:LYS:HG2	2:L:1007:LEU:HD11	1.49	0.94
1:A:1148:LEU:HD13	1:E:1148:LEU:HD13	1.48	0.94
2:K:1769:VAL:HG22	2:K:1775:ILE:HA	1.49	0.94
1:D:397:ARG:CG	1:D:397:ARG:HH11	1.78	0.94
1:D:427:ARG:HH12	1:D:492:ILE:HG23	1.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:752:HIS:HE1	2:H:847:TYR:HE2	1.07	0.94
1:D:1504:ARG:CG	1:D:1504:ARG:HH11	1.78	0.94
2:K:1610:MET:HE2	2:K:1610:MET:HA	1.48	0.94
2:K:2033:SER:HA	2:K:2036:ILE:HG13	1.46	0.94
1:E:570:TYR:O	1:E:574:ILE:HG13	1.66	0.94
2:K:917:ARG:HH11	2:K:917:ARG:HG3	1.32	0.94
2:L:2033:SER:HA	2:L:2036:ILE:HG13	1.47	0.94
1:A:989:ASN:H	1:A:1491:ASN:HD21	1.11	0.93
1:B:586:GLN:O	1:E:538:ARG:NH2	2.00	0.93
1:C:612:ILE:HG23	1:C:628:TYR:CD2	2.04	0.93
2:L:1180:VAL:HG11	2:L:1187:PHE:CD2	2.04	0.93
1:E:406:ALA:HA	1:E:439:ARG:HH11	1.31	0.93
2:H:1048:TRP:CE2	2:H:1049:GLN:HG2	2.02	0.93
1:A:406:ALA:HA	1:A:439:ARG:HH11	1.32	0.93
1:B:824:LEU:HB3	1:B:839:ILE:HD13	1.50	0.93
2:G:938:MET:HB3	2:G:959:THR:HG22	1.51	0.93
2:H:501:TRP:HE1	2:H:528:THR:HG22	1.34	0.93
1:B:406:ALA:HA	1:B:439:ARG:HH11	1.32	0.93
1:F:998:GLY:HA3	1:F:1361:VAL:HG13	1.47	0.93
2:G:846:THR:HG21	2:G:866:HIS:HD2	1.31	0.93
2:H:750:GLY:HA2	2:H:865:ILE:HG23	1.48	0.93
2:L:501:TRP:HE1	2:L:528:THR:HG22	1.30	0.93
2:H:1008:ILE:HD12	2:H:1013:VAL:HG22	1.48	0.93
2:H:117:ASN:HA	2:H:561:ARG:HG3	1.51	0.93
2:J:1868:GLN:HG2	2:J:1873:ARG:HH22	1.32	0.93
2:L:1007:LEU:HD12	2:L:1007:LEU:H	1.34	0.92
2:I:752:HIS:HE1	2:I:847:TYR:HE2	1.05	0.92
1:E:1278:GLY:N	1:E:1282:THR:HG22	1.83	0.92
2:J:501:TRP:HE1	2:J:528:THR:HG22	1.32	0.92
1:B:1672:GLY:HA3	1:B:1678:LEU:HD23	1.50	0.92
1:D:1672:GLY:HA3	1:D:1678:LEU:HD23	1.52	0.92
1:E:1079:ARG:HG2	1:E:1079:ARG:HH11	1.33	0.92
1:F:1672:GLY:HA3	1:F:1678:LEU:HD23	1.51	0.92
2:K:814:SER:HB2	4:K:2101:FMN:O3P	1.70	0.92
2:K:750:GLY:HA2	2:K:865:ILE:HG23	1.52	0.92
1:F:811:ASP:HB3	1:F:814:TYR:HB3	1.52	0.92
2:G:1637:VAL:HG11	2:G:1679:LEU:HD13	1.52	0.92
2:H:1007:LEU:H	2:H:1007:LEU:HD12	1.33	0.92
2:H:846:THR:HG21	2:H:866:HIS:HD2	1.29	0.92
1:F:989:ASN:H	1:F:1491:ASN:HD21	1.16	0.92
2:K:1180:VAL:HG11	2:K:1187:PHE:CD2	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:533:SER:HB2	1:A:612:ILE:HB	1.50	0.92
1:A:574:ILE:CG2	1:A:579:MET:HB2	2.00	0.92
1:A:811:ASP:HB3	1:A:814:TYR:HB3	1.50	0.92
1:B:1278:GLY:N	1:B:1282:THR:HG22	1.84	0.92
2:G:917:ARG:HH11	2:G:917:ARG:HG3	1.34	0.92
2:H:1868:GLN:HG2	2:H:1873:ARG:NH2	1.85	0.92
2:J:917:ARG:HH11	2:J:917:ARG:HG3	1.34	0.92
1:A:570:TYR:O	1:A:574:ILE:HG13	1.68	0.91
1:C:406:ALA:HA	1:C:439:ARG:HH11	1.33	0.91
1:D:824:LEU:HB3	1:D:839:ILE:HD13	1.51	0.91
2:L:1265:TYR:CE1	2:L:1267:PRO:HG3	2.05	0.91
1:C:1148:LEU:HD13	1:F:1148:LEU:HD13	1.53	0.91
1:D:811:ASP:HB3	1:D:814:TYR:HB3	1.52	0.91
2:G:1769:VAL:HG22	2:G:1775:ILE:HA	1.52	0.91
2:J:791:TYR:HA	2:J:796:TRP:CD1	2.05	0.91
2:I:750:GLY:HA2	2:I:865:ILE:HG23	1.52	0.91
2:K:1265:TYR:CE1	2:K:1267:PRO:HG3	2.04	0.91
2:K:635:TYR:CG	2:K:641:MET:HG3	2.06	0.91
1:E:612:ILE:HG12	1:E:628:TYR:CD2	2.06	0.91
1:E:962:ASN:HD22	2:K:1006:GLN:NE2	1.68	0.91
2:I:1180:VAL:HG11	2:I:1187:PHE:CD2	2.05	0.91
2:H:1919:ASN:HB2	2:H:1928:VAL:HB	1.53	0.91
2:H:917:ARG:HH11	2:H:917:ARG:HG3	1.30	0.91
1:A:824:LEU:HB3	1:A:839:ILE:HD13	1.52	0.91
1:E:427:ARG:CG	1:E:427:ARG:HH11	1.84	0.91
1:F:427:ARG:CG	1:F:427:ARG:HH11	1.83	0.91
2:L:1008:ILE:HD12	2:L:1013:VAL:HG22	1.50	0.91
1:B:427:ARG:HH11	1:B:427:ARG:CG	1.84	0.91
1:C:824:LEU:HB3	1:C:839:ILE:HD13	1.51	0.91
2:K:1868:GLN:HG2	2:K:1873:ARG:NH2	1.86	0.91
2:K:1048:TRP:CE2	2:K:1049:GLN:HG2	2.04	0.90
2:K:1919:ASN:HB2	2:K:1928:VAL:HB	1.53	0.90
1:A:574:ILE:HG23	1:A:579:MET:HB2	1.52	0.90
1:B:1504:ARG:HH11	1:B:1504:ARG:CG	1.83	0.90
2:G:1048:TRP:CE2	2:G:1049:GLN:HG2	2.07	0.90
2:G:582:LYS:HB2	2:G:1112:VAL:HG22	1.53	0.90
2:K:752:HIS:HE1	2:K:847:TYR:HE2	1.02	0.90
2:K:791:TYR:HA	2:K:796:TRP:CD1	2.07	0.90
2:J:1180:VAL:HG11	2:J:1187:PHE:CD2	2.06	0.90
2:K:1008:ILE:HD12	2:K:1013:VAL:HG22	1.52	0.90
2:K:376:ARG:HB3	2:K:394:PRO:HG2	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1448:ALA:HA	1:C:1451:LYS:HE3	1.54	0.90
1:C:811:ASP:HB3	1:C:814:TYR:HB3	1.52	0.90
1:E:824:LEU:HB3	1:E:839:ILE:HD13	1.53	0.90
2:K:289:ILE:HG12	2:K:493:MET:HE1	1.51	0.90
1:A:1703:VAL:HG11	1:A:1711:LEU:HB3	1.53	0.90
1:F:406:ALA:HA	1:F:439:ARG:HH11	1.35	0.90
2:I:1610:MET:HA	2:I:1610:MET:HE2	1.51	0.90
2:I:846:THR:HG21	2:I:866:HIS:HD2	1.33	0.90
1:D:1504:ARG:NH1	1:D:1504:ARG:HG3	1.84	0.90
1:D:570:TYR:O	1:D:574:ILE:HG13	1.71	0.90
2:I:938:MET:HB3	2:I:959:THR:HG22	1.52	0.90
1:C:72:THR:HB	1:C:74:VAL:HG23	1.54	0.90
2:I:1007:LEU:HD12	2:I:1007:LEU:H	1.35	0.90
2:I:1194:ARG:NH1	2:I:1194:ARG:HG3	1.73	0.90
2:K:2059:HIS:HE1	2:K:2068:ALA:HB2	1.37	0.90
2:L:938:MET:HB3	2:L:959:THR:HG22	1.53	0.90
1:F:824:LEU:HB3	1:F:839:ILE:HD13	1.52	0.90
1:B:811:ASP:HB3	1:B:814:TYR:HB3	1.54	0.90
1:E:427:ARG:HH12	1:E:492:ILE:HG23	1.36	0.90
1:F:613:PRO:HG2	1:F:633:THR:HG21	1.53	0.90
2:H:1868:GLN:HG2	2:H:1873:ARG:HH22	1.35	0.90
2:H:938:MET:HB3	2:H:959:THR:HG22	1.52	0.90
2:J:1007:LEU:H	2:J:1007:LEU:HD12	1.38	0.89
1:D:1448:ALA:HA	1:D:1451:LYS:HE3	1.54	0.89
1:E:881:LEU:HA	1:E:884:MET:HG3	1.55	0.89
2:K:1442:TYR:O	2:K:1445:THR:HG22	1.72	0.89
2:G:854:VAL:HG21	2:G:1070:PRO:HA	1.54	0.89
2:H:582:LYS:HB2	2:H:1112:VAL:HG22	1.54	0.89
1:A:1504:ARG:NH1	1:A:1504:ARG:HG3	1.85	0.89
2:G:1180:VAL:HG11	2:G:1187:PHE:CD2	2.06	0.89
2:H:1180:VAL:HG11	2:H:1187:PHE:CD2	2.08	0.89
2:H:327:PRO:HD2	2:I:1338:ARG:HH21	1.36	0.89
2:L:1616:VAL:HG11	2:L:1679:LEU:HD12	1.53	0.89
1:C:1672:GLY:HA3	1:C:1678:LEU:HD23	1.55	0.89
2:K:752:HIS:HE1	2:K:847:TYR:CE2	1.90	0.89
2:K:752:HIS:CE1	2:K:847:TYR:HE2	1.89	0.89
1:A:965:TYR:CZ	1:A:1199:LEU:HD22	2.08	0.89
2:G:1919:ASN:HB2	2:G:1928:VAL:HB	1.52	0.89
2:H:610:PRO:HG3	2:H:1047:LEU:HD22	1.54	0.89
2:J:750:GLY:HA2	2:J:865:ILE:HG23	1.55	0.89
1:C:397:ARG:HG2	1:C:397:ARG:NH1	1.82	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:72:THR:HB	1:D:74:VAL:HG23	1.55	0.89
1:B:1005:TRP:NE1	1:B:1561:LEU:HD22	1.89	0.89
1:F:1107:GLU:HG3	1:F:1108:PRO:HD2	1.55	0.89
2:I:582:LYS:HB2	2:I:1112:VAL:HG22	1.54	0.89
2:J:582:LYS:HB2	2:J:1112:VAL:HG22	1.54	0.89
2:J:938:MET:HB3	2:J:959:THR:HG22	1.53	0.89
1:E:811:ASP:HB3	1:E:814:TYR:HB3	1.54	0.88
2:G:1194:ARG:CG	2:G:1194:ARG:HH11	1.82	0.88
2:G:501:TRP:HE1	2:G:528:THR:HG22	1.35	0.88
2:H:1265:TYR:CE1	2:H:1267:PRO:HG3	2.07	0.88
2:H:791:TYR:HA	2:H:796:TRP:CD1	2.08	0.88
2:I:1637:VAL:HG11	2:I:1679:LEU:HD13	1.52	0.88
2:I:791:TYR:HA	2:I:796:TRP:CD1	2.07	0.88
1:A:881:LEU:HA	1:A:884:MET:HG3	1.55	0.88
1:B:1448:ALA:HA	1:B:1451:LYS:HE3	1.54	0.88
1:E:1504:ARG:HG3	1:E:1504:ARG:NH1	1.87	0.88
2:K:117:ASN:HA	2:K:561:ARG:HG3	1.55	0.88
1:D:427:ARG:CG	1:D:427:ARG:HH11	1.86	0.88
2:G:685:VAL:HG23	2:G:1186:ARG:HH12	1.35	0.88
1:E:1448:ALA:HA	1:E:1451:LYS:HE3	1.56	0.88
2:I:1602:LEU:HG	2:I:1606:ILE:HD11	1.55	0.88
2:K:938:MET:HB3	2:K:959:THR:HG22	1.53	0.88
2:H:1616:VAL:HG11	2:H:1679:LEU:HD12	1.54	0.88
2:G:1265:TYR:CE1	2:G:1267:PRO:HG3	2.09	0.88
1:C:1476:ARG:HH12	1:F:1499:ARG:HD3	1.38	0.88
2:G:635:TYR:CG	2:G:641:MET:HG3	2.09	0.88
2:H:1637:VAL:HG11	2:H:1679:LEU:HD13	1.55	0.88
2:I:1919:ASN:HB2	2:I:1928:VAL:HB	1.53	0.88
2:J:605:VAL:HB	2:J:628:ILE:HG13	1.56	0.88
1:E:962:ASN:HD22	2:K:1006:GLN:HE22	0.89	0.88
2:L:582:LYS:HB2	2:L:1112:VAL:HG22	1.55	0.88
2:J:1616:VAL:HG11	2:J:1679:LEU:HD12	1.56	0.88
2:K:857:VAL:HG13	2:K:876:TRP:NE1	1.88	0.88
1:A:72:THR:HB	1:A:74:VAL:HG23	1.56	0.88
2:G:1008:ILE:HD12	2:G:1013:VAL:HG22	1.53	0.88
2:L:750:GLY:HA2	2:L:865:ILE:HG23	1.56	0.88
1:A:1663:LYS:HG2	2:G:1007:LEU:HD11	1.56	0.87
1:A:1499:ARG:HD3	1:E:1476:ARG:HH12	1.39	0.87
1:E:72:THR:HB	1:E:74:VAL:HG23	1.54	0.87
1:F:1278:GLY:N	1:F:1282:THR:HG22	1.87	0.87
2:I:1008:ILE:HD12	2:I:1013:VAL:HG22	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:430:VAL:HG11	1:F:490:VAL:HG11	1.56	0.87
2:H:1769:VAL:HG22	2:H:1775:ILE:HA	1.53	0.87
2:I:752:HIS:HE1	2:I:847:TYR:CE2	1.93	0.87
2:L:1769:VAL:HG22	2:L:1775:ILE:HA	1.53	0.87
1:C:1504:ARG:NH1	1:C:1504:ARG:HG3	1.81	0.87
2:I:511:THR:HG22	2:I:512:HIS:HD2	1.36	0.87
2:J:1288:PHE:O	2:J:1292:VAL:HG23	1.73	0.87
2:J:846:THR:HG21	2:J:866:HIS:HD2	1.32	0.87
2:K:1616:VAL:HG11	2:K:1679:LEU:HD12	1.55	0.87
1:C:1702:ARG:HH11	1:C:1702:ARG:HG2	1.36	0.87
1:E:1447:VAL:HG21	1:E:1467:LEU:HD21	1.55	0.87
2:L:1123:ALA:O	2:L:1126:GLU:HG3	1.73	0.87
2:L:1194:ARG:NH1	2:L:1194:ARG:HG3	1.71	0.87
1:E:967:PHE:CD2	1:E:1374:PRO:HG3	2.10	0.87
2:K:158:LEU:HD22	2:K:169:ILE:HD11	1.56	0.87
1:C:965:TYR:CZ	1:C:1199:LEU:HD22	2.09	0.87
1:F:72:THR:HB	1:F:74:VAL:HG23	1.57	0.87
2:H:2059:HIS:HE1	2:H:2068:ALA:HB2	1.40	0.87
2:K:1499:LYS:HB3	2:K:1505:SER:HB2	1.56	0.87
2:G:1890:ARG:HH22	2:G:1996:ILE:HD11	1.37	0.87
2:G:752:HIS:CE1	2:G:847:TYR:HE2	1.92	0.87
2:I:1616:VAL:HG11	2:I:1679:LEU:HD12	1.56	0.87
1:C:1499:ARG:HD3	1:F:1476:ARG:HH12	1.38	0.87
2:G:1616:VAL:HG11	2:G:1679:LEU:HD12	1.55	0.87
2:H:605:VAL:HB	2:H:628:ILE:HG13	1.57	0.87
2:I:1594:ARG:NH1	2:I:1594:ARG:HG2	1.85	0.87
2:J:1637:VAL:HG11	2:J:1679:LEU:HD13	1.55	0.87
2:J:1769:VAL:HG22	2:J:1775:ILE:HA	1.55	0.87
1:B:72:THR:HB	1:B:74:VAL:HG23	1.56	0.87
1:D:684:THR:HG23	1:D:686:ARG:H	1.39	0.87
2:G:1007:LEU:H	2:G:1007:LEU:HD12	1.40	0.87
2:J:1265:TYR:CE1	2:J:1267:PRO:HG3	2.09	0.87
2:L:791:TYR:HA	2:L:796:TRP:CD1	2.09	0.87
1:A:427:ARG:CG	1:A:427:ARG:HH11	1.87	0.86
1:B:1702:ARG:HG3	1:B:1702:ARG:HH11	1.40	0.86
1:D:605:ARG:HB3	1:D:606:PRO:CD	2.05	0.86
1:D:881:LEU:HA	1:D:884:MET:HG3	1.55	0.86
2:H:814:SER:HB2	4:H:2101:FMN:O3P	1.75	0.86
2:J:1918:VAL:HG13	2:J:2006:HIS:HB2	1.57	0.86
2:K:854:VAL:HG21	2:K:1070:PRO:HA	1.57	0.86
1:B:612:ILE:HG23	1:B:628:TYR:CD2	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1919:ASN:HB2	2:L:1928:VAL:HB	1.55	0.86
1:A:962:ASN:HD22	2:G:1006:GLN:HE22	1.16	0.86
2:K:1007:LEU:HD12	2:K:1007:LEU:H	1.40	0.86
2:H:511:THR:HG22	2:H:512:HIS:HD2	1.38	0.86
2:L:1288:PHE:O	2:L:1292:VAL:HG23	1.74	0.86
1:F:397:ARG:HG2	1:F:397:ARG:NH1	1.84	0.86
2:H:1194:ARG:HH11	2:H:1194:ARG:CG	1.86	0.86
1:C:998:GLY:HA3	1:C:1361:VAL:HG13	1.56	0.86
1:D:1702:ARG:HH11	1:D:1702:ARG:HG2	1.40	0.86
1:F:1448:ALA:HA	1:F:1451:LYS:HE3	1.56	0.86
1:A:612:ILE:HD12	1:F:579:MET:CE	2.06	0.86
2:G:1868:GLN:HG2	2:G:1873:ARG:HH22	1.38	0.86
1:E:1663:LYS:HG2	2:K:1007:LEU:HD11	1.56	0.86
1:E:557:ARG:HH11	1:E:557:ARG:CG	1.89	0.86
1:F:526:MET:O	1:F:613:PRO:O	1.93	0.86
2:L:854:VAL:HG21	2:L:1070:PRO:HA	1.58	0.86
2:L:605:VAL:HB	2:L:628:ILE:HG13	1.56	0.86
1:D:397:ARG:HG2	1:D:397:ARG:NH1	1.82	0.86
2:H:1231:THR:HG23	2:H:1595:VAL:HG21	1.55	0.86
2:H:1602:LEU:HG	2:H:1606:ILE:HD11	1.57	0.86
1:B:1504:ARG:NH1	1:B:1504:ARG:HG3	1.84	0.86
2:I:1454:MET:HE2	2:I:1550:SER:HA	1.58	0.86
1:E:962:ASN:ND2	2:K:1006:GLN:HE22	1.73	0.86
1:B:1102:ILE:HD12	1:B:1146:ALA:HB3	1.58	0.85
1:D:741:ASP:OD1	1:D:793:ARG:HD3	1.75	0.85
2:L:2059:HIS:HE1	2:L:2068:ALA:HB2	1.40	0.85
1:D:989:ASN:H	1:D:1491:ASN:HD21	1.22	0.85
2:G:752:HIS:HE1	2:G:847:TYR:CE2	1.92	0.85
1:F:881:LEU:HA	1:F:884:MET:HG3	1.58	0.85
2:G:376:ARG:HB3	2:G:394:PRO:HG2	1.58	0.85
2:H:43:PHE:CD2	2:I:22:ARG:HG2	2.11	0.85
2:I:1868:GLN:HG2	2:I:1873:ARG:HH22	1.39	0.85
1:F:1504:ARG:HG3	1:F:1504:ARG:NH1	1.86	0.85
2:I:1769:VAL:HG22	2:I:1775:ILE:HA	1.56	0.85
1:C:427:ARG:HH11	1:C:427:ARG:CG	1.88	0.85
2:G:1868:GLN:HG2	2:G:1873:ARG:NH2	1.91	0.85
2:J:1340:LYS:HG3	2:L:376:ARG:NH2	1.92	0.85
2:L:814:SER:HB2	4:L:2101:FMN:O3P	1.76	0.85
2:L:752:HIS:CE1	2:L:847:TYR:HE2	1.94	0.85
1:A:1448:ALA:HA	1:A:1451:LYS:HE3	1.56	0.85
2:J:1499:LYS:HB3	2:J:1505:SER:HB2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1443:LEU:HD21	1:A:1470:ARG:CB	2.03	0.85
1:D:1443:LEU:HD21	1:D:1470:ARG:CB	2.05	0.85
2:I:1868:GLN:HG2	2:I:1873:ARG:NH2	1.91	0.85
1:E:1702:ARG:HH11	1:E:1702:ARG:HG2	1.42	0.85
2:G:1602:LEU:HG	2:G:1606:ILE:HD11	1.58	0.85
2:H:752:HIS:CE1	2:H:847:TYR:HE2	1.95	0.85
2:J:117:ASN:HA	2:J:561:ARG:HG3	1.57	0.85
1:B:868:VAL:HG11	1:B:908:ILE:HD11	1.57	0.85
2:H:1499:LYS:HB3	2:H:1505:SER:HB2	1.59	0.85
2:J:752:HIS:HE1	2:J:847:TYR:CE2	1.95	0.85
1:C:398:VAL:HG22	1:C:710:VAL:HG22	1.57	0.85
1:C:868:VAL:HG11	1:C:908:ILE:HD11	1.58	0.85
2:J:2059:HIS:HE1	2:J:2068:ALA:HB2	1.40	0.85
1:B:1663:LYS:HG2	2:H:1007:LEU:HD11	1.58	0.84
1:F:868:VAL:HG11	1:F:908:ILE:HD11	1.58	0.84
2:I:448:HIS:HD2	2:I:491:VAL:HG12	1.40	0.84
2:J:1919:ASN:HB2	2:J:1928:VAL:HB	1.55	0.84
2:K:1602:LEU:HG	2:K:1606:ILE:HD11	1.58	0.84
1:D:558:LEU:HB2	1:D:563:GLN:HG3	1.60	0.84
2:L:1499:LYS:HB3	2:L:1505:SER:HB2	1.59	0.84
2:L:511:THR:HG22	2:L:512:HIS:HD2	1.38	0.84
1:B:430:VAL:HG11	1:B:490:VAL:HG11	1.59	0.84
2:I:752:HIS:CE1	2:I:847:TYR:HE2	1.94	0.84
1:C:989:ASN:H	1:C:1491:ASN:HD21	1.22	0.84
2:G:511:THR:HG22	2:G:512:HIS:HD2	1.34	0.84
2:H:2057:GLU:HA	2:H:2060:ARG:NH1	1.93	0.84
2:J:511:THR:HG22	2:J:512:HIS:HD2	1.39	0.84
2:K:1194:ARG:HH11	2:K:1194:ARG:CG	1.83	0.84
2:H:854:VAL:HG21	2:H:1070:PRO:HA	1.60	0.84
2:J:635:TYR:CG	2:J:641:MET:HG3	2.12	0.84
1:D:1278:GLY:N	1:D:1282:THR:HG22	1.91	0.84
1:D:868:VAL:HG11	1:D:908:ILE:HD11	1.58	0.84
2:J:752:HIS:CE1	2:J:847:TYR:HE2	1.94	0.84
2:L:635:TYR:CG	2:L:641:MET:HG3	2.12	0.84
1:E:398:VAL:HG22	1:E:710:VAL:HG22	1.58	0.84
2:G:448:HIS:HD2	2:G:491:VAL:HG12	1.42	0.84
1:B:684:THR:HG23	1:B:686:ARG:H	1.42	0.84
1:C:498:THR:HG21	1:C:858:LEU:HA	1.57	0.84
1:F:1005:TRP:NE1	1:F:1561:LEU:HD22	1.93	0.84
2:G:818:THR:HG22	2:G:829:LYS:HB2	1.58	0.84
2:L:610:PRO:HG3	2:L:1047:LEU:HD22	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1231:THR:HG23	2:L:1595:VAL:HG21	1.58	0.84
1:C:1363:MET:HE1	1:C:1373:VAL:HG21	1.60	0.84
1:C:741:ASP:OD1	1:C:793:ARG:HD3	1.78	0.84
2:L:1594:ARG:NH1	2:L:1594:ARG:HG2	1.92	0.84
2:L:448:HIS:HD2	2:L:491:VAL:HG12	1.43	0.84
2:L:752:HIS:HE1	2:L:847:TYR:CE2	1.94	0.84
1:D:1107:GLU:HG3	1:D:1108:PRO:HD2	1.60	0.83
2:I:1499:LYS:HB3	2:I:1505:SER:HB2	1.58	0.83
2:J:448:HIS:HD2	2:J:491:VAL:HG12	1.43	0.83
2:I:1265:TYR:CE1	2:I:1267:PRO:HG3	2.12	0.83
2:J:814:SER:HB2	4:J:2101:FMN:O3P	1.78	0.83
1:B:961:ALA:HB2	1:B:1022:LEU:HD12	1.60	0.83
1:D:557:ARG:HH11	1:D:557:ARG:CG	1.90	0.83
1:E:1102:ILE:HD12	1:E:1146:ALA:HB3	1.60	0.83
2:G:610:PRO:HG3	2:G:1047:LEU:HD22	1.59	0.83
2:I:1301:PHE:HB3	2:I:1364:ARG:HG3	1.59	0.83
2:I:2059:HIS:HE1	2:I:2068:ALA:HB2	1.41	0.83
2:J:1594:ARG:HG2	2:J:1594:ARG:NH1	1.87	0.83
2:L:1602:LEU:HG	2:L:1606:ILE:HD11	1.60	0.83
1:D:961:ALA:HB2	1:D:1022:LEU:HD12	1.60	0.83
2:G:1301:PHE:HB3	2:G:1364:ARG:HG3	1.59	0.83
2:I:814:SER:HB2	4:I:2101:FMN:O3P	1.78	0.83
1:E:1005:TRP:NE1	1:E:1561:LEU:HD22	1.92	0.83
1:E:741:ASP:OD1	1:E:793:ARG:HD3	1.77	0.83
1:F:1278:GLY:HA2	1:F:1630:LYS:HE2	1.58	0.83
2:H:1700:GLN:HA	2:H:1704:MET:HE1	1.59	0.83
1:C:669:VAL:O	1:C:673:LEU:HD12	1.78	0.83
2:K:685:VAL:HG23	2:K:1186:ARG:NH1	1.92	0.83
2:K:1637:VAL:HG11	2:K:1679:LEU:HD13	1.60	0.83
2:L:1454:MET:HE2	2:L:1550:SER:HA	1.61	0.83
1:A:557:ARG:CG	1:A:557:ARG:HH11	1.90	0.83
2:G:791:TYR:HA	2:G:796:TRP:CD1	2.14	0.83
2:J:327:PRO:O	2:K:1338:ARG:NH2	2.11	0.83
1:E:532:ILE:HG21	1:E:907:PHE:HB2	1.60	0.83
2:K:610:PRO:HG3	2:K:1047:LEU:HD22	1.59	0.83
1:F:398:VAL:HG22	1:F:710:VAL:HG22	1.60	0.83
2:G:2059:HIS:HE1	2:G:2068:ALA:HB2	1.43	0.83
2:K:511:THR:HG22	2:K:512:HIS:HD2	1.42	0.83
1:A:741:ASP:OD1	1:A:793:ARG:HD3	1.79	0.82
1:D:1447:VAL:HG21	1:D:1467:LEU:HD21	1.61	0.82
1:E:967:PHE:CG	1:E:1374:PRO:HG3	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:814:SER:HB2	4:G:2101:FMN:O3P	1.79	0.82
2:K:605:VAL:HB	2:K:628:ILE:HG13	1.59	0.82
1:A:1447:VAL:HG21	1:A:1467:LEU:HD21	1.60	0.82
1:A:1565:PRO:HG3	1:A:1572:TRP:CZ3	2.14	0.82
1:C:1565:PRO:HG3	1:C:1572:TRP:CZ3	2.14	0.82
1:E:612:ILE:HG12	1:E:628:TYR:CE2	2.13	0.82
2:G:1915:LEU:HD21	2:G:1939:LEU:HD22	1.61	0.82
2:G:471:ASP:HB3	2:G:474:THR:O	1.79	0.82
2:H:1594:ARG:NH1	2:H:1594:ARG:HG2	1.89	0.82
2:H:327:PRO:HD2	2:I:1338:ARG:NH2	1.95	0.82
2:J:610:PRO:HG3	2:J:1047:LEU:HD22	1.59	0.82
2:K:818:THR:HG22	2:K:829:LYS:HB2	1.59	0.82
1:A:398:VAL:HG22	1:A:710:VAL:HG22	1.60	0.82
1:D:406:ALA:HA	1:D:439:ARG:NH1	1.93	0.82
1:B:397:ARG:HG2	1:B:397:ARG:NH1	1.82	0.82
1:E:532:ILE:CG2	1:E:907:PHE:CB	2.58	0.82
1:F:535:TYR:OH	1:F:630:LYS:HE3	1.79	0.82
2:H:600:VAL:HG13	2:H:601:PRO:HD2	1.60	0.82
2:J:300:THR:HB	2:J:303:GLU:H	1.45	0.82
1:E:1702:ARG:HH11	1:E:1702:ARG:HG3	1.45	0.82
1:F:1447:VAL:HG21	1:F:1467:LEU:HD21	1.60	0.82
2:I:903:ILE:HD11	2:I:914:TRP:CE2	2.15	0.82
2:L:600:VAL:HG13	2:L:601:PRO:HD2	1.60	0.82
2:H:1454:MET:HE2	2:H:1550:SER:HA	1.61	0.82
2:I:1890:ARG:HH22	2:I:1996:ILE:HD11	1.43	0.82
2:H:43:PHE:HB2	2:I:22:ARG:NH2	1.95	0.82
2:K:783:GLY:HA3	2:K:1075:TYR:HB3	1.60	0.82
2:L:2052:LYS:HD3	2:L:2074:TRP:HE1	1.44	0.82
1:A:729:ILE:HA	1:A:736:LEU:CD2	2.10	0.82
1:A:498:THR:HG21	1:A:858:LEU:HA	1.62	0.82
1:C:1443:LEU:HD21	1:C:1470:ARG:CB	2.06	0.82
1:D:1565:PRO:HG3	1:D:1572:TRP:CZ3	2.15	0.82
1:A:1702:ARG:HH11	1:A:1702:ARG:HG3	1.45	0.82
1:B:777:LEU:O	1:B:781:ILE:HG13	1.80	0.82
2:H:917:ARG:HG3	2:H:917:ARG:NH1	1.89	0.82
1:A:1102:ILE:HD12	1:A:1146:ALA:HB3	1.61	0.81
1:A:406:ALA:HA	1:A:439:ARG:NH1	1.93	0.81
1:B:1702:ARG:HG2	1:B:1702:ARG:HH11	1.42	0.81
1:F:824:LEU:HB3	1:F:839:ILE:CD1	2.09	0.81
2:K:1231:THR:HG23	2:K:1595:VAL:HG21	1.60	0.81
2:K:448:HIS:HD2	2:K:491:VAL:HG12	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:857:VAL:HG13	2:L:876:TRP:NE1	1.94	0.81
1:D:1702:ARG:HG3	1:D:1702:ARG:HH11	1.41	0.81
1:D:498:THR:HG21	1:D:858:LEU:HA	1.62	0.81
2:J:1454:MET:HE2	2:J:1550:SER:HA	1.62	0.81
1:A:558:LEU:HB2	1:A:563:GLN:HG3	1.62	0.81
1:B:1094:LYS:HE3	1:B:1316:TYR:CD1	2.14	0.81
1:B:406:ALA:HA	1:B:439:ARG:NH1	1.93	0.81
1:C:1107:GLU:HG3	1:C:1108:PRO:HD2	1.61	0.81
2:G:459:LYS:HA	2:G:485:ASP:OD1	1.80	0.81
1:A:1363:MET:HE1	1:A:1373:VAL:HG21	1.61	0.81
1:A:408:GLN:HG2	1:A:1610:ARG:HH12	1.44	0.81
2:J:1915:LEU:HD21	2:J:1939:LEU:HD22	1.63	0.81
2:J:327:PRO:HD2	2:K:1338:ARG:HH21	1.45	0.81
2:K:1454:MET:HE2	2:K:1550:SER:HA	1.62	0.81
2:L:917:ARG:NH1	2:L:917:ARG:HG3	1.88	0.81
1:D:605:ARG:HB3	1:D:606:PRO:HD3	1.62	0.81
1:E:1703:VAL:HG11	1:E:1711:LEU:HB3	1.59	0.81
1:E:558:LEU:HB2	1:E:563:GLN:HG3	1.61	0.81
1:F:1565:PRO:HG3	1:F:1572:TRP:CZ3	2.16	0.81
2:H:448:HIS:HD2	2:H:491:VAL:HG12	1.46	0.81
2:I:1289:TYR:CG	2:I:1370:LEU:HD23	2.14	0.81
1:A:397:ARG:NH1	1:A:397:ARG:HG2	1.85	0.81
1:B:452:ILE:HD11	1:B:470:GLY:HA3	1.62	0.81
1:C:1447:VAL:HG21	1:C:1467:LEU:HD21	1.62	0.81
1:F:961:ALA:HB2	1:F:1022:LEU:HD12	1.61	0.81
2:H:635:TYR:CG	2:H:641:MET:HG3	2.14	0.81
2:I:1288:PHE:O	2:I:1292:VAL:HG23	1.79	0.81
2:I:635:TYR:CG	2:I:641:MET:HG3	2.16	0.81
2:I:917:ARG:NH1	2:I:917:ARG:HG3	1.88	0.81
2:J:1746:THR:HB	2:J:1792:THR:HG23	1.62	0.81
2:J:685:VAL:HG23	2:J:1186:ARG:HH12	1.46	0.81
2:J:854:VAL:HG21	2:J:1070:PRO:HA	1.61	0.81
1:B:1107:GLU:HG3	1:B:1108:PRO:HD2	1.61	0.81
1:B:1443:LEU:HD21	1:B:1470:ARG:CB	2.05	0.81
1:C:1102:ILE:HD12	1:C:1146:ALA:HB3	1.63	0.81
1:C:365:GLN:CG	1:D:365:GLN:HG3	2.11	0.81
2:H:374:GLU:HA	2:H:377:HIS:HD2	1.41	0.81
2:L:376:ARG:HB3	2:L:394:PRO:HG2	1.63	0.81
1:C:365:GLN:HG3	1:D:365:GLN:CG	2.11	0.81
1:E:1443:LEU:HD21	1:E:1470:ARG:CB	2.03	0.81
2:H:818:THR:HG22	2:H:829:LYS:HB2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:752:HIS:HE1	2:H:847:TYR:CE2	1.95	0.81
2:I:1194:ARG:CG	2:I:1194:ARG:HH11	1.87	0.81
2:L:2057:GLU:HA	2:L:2060:ARG:NH1	1.95	0.81
1:B:1447:VAL:HG21	1:B:1467:LEU:HD21	1.63	0.81
1:C:1005:TRP:NE1	1:C:1561:LEU:HD22	1.96	0.81
1:C:406:ALA:HA	1:C:439:ARG:NH1	1.95	0.81
2:K:600:VAL:HG13	2:K:601:PRO:HD2	1.63	0.81
1:C:506:ILE:HD13	1:C:922:ILE:HG22	1.63	0.81
1:D:1102:ILE:HD12	1:D:1146:ALA:HB3	1.63	0.81
1:E:1565:PRO:HG3	1:E:1572:TRP:CZ3	2.16	0.81
1:F:684:THR:HG23	1:F:686:ARG:H	1.46	0.81
2:G:917:ARG:HG3	2:G:917:ARG:NH1	1.92	0.81
2:H:158:LEU:HA	2:H:566:VAL:HG21	1.62	0.81
2:I:374:GLU:HA	2:I:377:HIS:HD2	1.44	0.81
2:I:605:VAL:HB	2:I:628:ILE:HG13	1.63	0.81
2:J:2057:GLU:HA	2:J:2060:ARG:NH1	1.95	0.81
2:K:1700:GLN:HA	2:K:1704:MET:HE1	1.62	0.81
2:K:1868:GLN:HG2	2:K:1873:ARG:HH22	1.46	0.81
2:L:1868:GLN:HG2	2:L:1873:ARG:HH22	1.45	0.81
2:L:685:VAL:HG23	2:L:1186:ARG:HH12	1.46	0.81
1:A:1443:LEU:CD2	1:A:1470:ARG:HB3	2.06	0.80
1:A:1005:TRP:NE1	1:A:1561:LEU:HD22	1.96	0.80
1:C:729:ILE:HA	1:C:736:LEU:CD2	2.11	0.80
1:E:397:ARG:NH1	1:E:397:ARG:HG2	1.83	0.80
1:E:498:THR:HG21	1:E:858:LEU:HA	1.63	0.80
1:F:1363:MET:HE1	1:F:1373:VAL:HG21	1.61	0.80
2:G:1499:LYS:HB3	2:G:1505:SER:HB2	1.63	0.80
2:H:43:PHE:CG	2:I:22:ARG:NE	2.49	0.80
1:A:973:TRP:CE2	1:A:1648:LYS:HB2	2.17	0.80
1:E:684:THR:HG23	1:E:686:ARG:H	1.44	0.80
2:J:2052:LYS:HD3	2:J:2074:TRP:HE1	1.46	0.80
2:J:459:LYS:HA	2:J:485:ASP:OD1	1.81	0.80
1:B:440:SER:HB3	1:B:481:LEU:HD23	1.61	0.80
1:C:1702:ARG:HH11	1:C:1702:ARG:HG3	1.46	0.80
1:E:1107:GLU:HG3	1:E:1108:PRO:HD2	1.61	0.80
1:F:1702:ARG:HG3	1:F:1702:ARG:HH11	1.44	0.80
1:F:538:ARG:HA	1:F:585:MET:HE1	1.61	0.80
2:I:911:GLN:HE21	2:I:1064:THR:HG23	1.46	0.80
2:H:1115:TYR:HB3	2:H:1267:PRO:HB3	1.62	0.80
2:I:1231:THR:HG23	2:I:1595:VAL:HG21	1.64	0.80
2:J:208:LEU:HD12	2:J:227:ILE:HD11	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:374:GLU:HA	2:K:377:HIS:HD2	1.46	0.80
1:A:1702:ARG:HG2	1:A:1702:ARG:HH11	1.45	0.80
1:C:1617:ILE:HD13	1:C:1617:ILE:H	1.47	0.80
1:B:1104:GLN:OE1	1:D:1107:GLU:HB2	1.80	0.80
1:D:1278:GLY:HA2	1:D:1630:LYS:HE2	1.62	0.80
1:F:1102:ILE:HD12	1:F:1146:ALA:HB3	1.61	0.80
1:F:1702:ARG:HH11	1:F:1702:ARG:HG2	1.45	0.80
2:K:1288:PHE:O	2:K:1292:VAL:HG23	1.81	0.80
2:I:1746:THR:HB	2:I:1792:THR:HG23	1.63	0.80
2:I:685:VAL:HG12	2:I:687:ILE:HG13	1.64	0.80
2:L:1918:VAL:HG13	2:L:2006:HIS:HB2	1.63	0.80
2:L:747:ARG:HH11	2:L:780:SER:HB3	1.46	0.80
1:D:1005:TRP:NE1	1:D:1561:LEU:HD22	1.97	0.80
1:E:406:ALA:HA	1:E:439:ARG:NH1	1.96	0.80
2:G:856:THR:HG23	2:G:866:HIS:CD2	2.17	0.80
2:I:1700:GLN:HA	2:I:1704:MET:HE1	1.64	0.80
2:I:208:LEU:HD12	2:I:227:ILE:HD11	1.64	0.80
2:J:579:ARG:HB2	2:J:591:ASP:HB3	1.63	0.80
2:L:459:LYS:HA	2:L:485:ASP:OD1	1.80	0.80
1:B:1617:ILE:HD13	1:B:1617:ILE:H	1.46	0.80
2:J:600:VAL:HG13	2:J:601:PRO:HD2	1.64	0.80
1:A:31:THR:HG23	2:G:2040:ILE:HG21	1.62	0.80
1:C:440:SER:HB3	1:C:481:LEU:HD23	1.64	0.80
2:G:605:VAL:HB	2:G:628:ILE:HG13	1.64	0.80
2:H:1288:PHE:O	2:H:1292:VAL:HG23	1.81	0.80
2:J:1700:GLN:HA	2:J:1704:MET:HE1	1.63	0.80
2:L:374:GLU:HA	2:L:377:HIS:HD2	1.45	0.80
1:B:1443:LEU:O	1:B:1447:VAL:HG23	1.82	0.79
1:D:527:ALA:HB2	1:D:637:LEU:CD2	2.12	0.79
1:D:613:PRO:HG2	1:D:633:THR:HG21	1.64	0.79
2:K:747:ARG:HH11	2:K:780:SER:HB3	1.47	0.79
1:B:729:ILE:HA	1:B:736:LEU:CD2	2.12	0.79
2:K:1746:THR:HB	2:K:1792:THR:HG23	1.63	0.79
2:K:595:SER:HB3	2:K:602:PRO:CG	2.13	0.79
2:K:917:ARG:NH1	2:K:917:ARG:HG3	1.92	0.79
2:I:459:LYS:HA	2:I:485:ASP:OD1	1.80	0.79
1:B:824:LEU:HB3	1:B:839:ILE:CD1	2.11	0.79
1:D:1363:MET:HE1	1:D:1373:VAL:HG21	1.65	0.79
1:E:868:VAL:HG11	1:E:908:ILE:HD11	1.63	0.79
1:E:960:ARG:HB3	2:K:969:ARG:NH1	1.98	0.79
2:H:2015:LYS:HB2	2:H:2016:PRO:HD3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2052:LYS:HD3	2:H:2074:TRP:HE1	1.43	0.79
1:D:965:TYR:CZ	1:D:1199:LEU:HD22	2.17	0.79
1:F:1674:ILE:HD11	2:L:1011:GLN:HG3	1.65	0.79
2:G:783:GLY:HA3	2:G:1075:TYR:HB3	1.63	0.79
2:G:1918:VAL:HG13	2:G:2006:HIS:HB2	1.63	0.79
2:G:300:THR:HB	2:G:303:GLU:H	1.48	0.79
2:H:685:VAL:HG12	2:H:687:ILE:HG13	1.65	0.79
2:H:903:ILE:HD11	2:H:914:TRP:CE2	2.17	0.79
2:K:903:ILE:HD11	2:K:914:TRP:CE2	2.18	0.79
2:L:2015:LYS:HB2	2:L:2016:PRO:HD3	1.63	0.79
1:B:1686:PRO:HB2	1:B:1713:PHE:CD1	2.18	0.79
1:F:406:ALA:HA	1:F:439:ARG:NH1	1.98	0.79
1:F:612:ILE:HD12	1:F:907:PHE:HZ	1.47	0.79
2:J:590:VAL:HG23	2:J:1091:HIS:NE2	1.96	0.79
1:A:868:VAL:HG11	1:A:908:ILE:HD11	1.61	0.79
1:B:1674:ILE:HD11	2:H:1011:GLN:HG3	1.63	0.79
1:C:612:ILE:HG23	1:C:628:TYR:CE2	2.18	0.79
2:G:374:GLU:HA	2:G:377:HIS:HD2	1.48	0.79
2:I:2057:GLU:HA	2:I:2060:ARG:NH1	1.98	0.79
1:B:498:THR:HG21	1:B:858:LEU:HA	1.64	0.79
1:C:1342:ARG:HH11	1:C:1347:THR:HB	1.47	0.79
1:D:440:SER:HB3	1:D:481:LEU:HD23	1.64	0.79
1:B:552:ILE:HG12	1:E:552:ILE:HD11	1.65	0.79
2:H:1890:ARG:HH22	2:H:1996:ILE:HD11	1.46	0.79
2:I:622:MET:SD	2:I:652:ILE:HD11	2.23	0.79
2:J:1231:THR:HG23	2:J:1595:VAL:HG21	1.65	0.79
2:K:685:VAL:HG12	2:K:687:ILE:HG13	1.64	0.79
2:L:1721:ARG:NH2	2:L:1853:ILE:HD12	1.97	0.79
1:B:881:LEU:HA	1:B:884:MET:HG3	1.63	0.78
1:D:905:LEU:HD22	1:D:911:LEU:HD21	1.65	0.78
1:F:964:LYS:O	1:F:966:PRO:HD3	1.83	0.78
2:I:300:THR:HB	2:I:303:GLU:H	1.48	0.78
2:J:856:THR:HG23	2:J:866:HIS:CD2	2.18	0.78
1:F:1443:LEU:HD21	1:F:1470:ARG:CB	2.07	0.78
2:I:1764:MET:HB3	2:I:1780:ILE:HD12	1.65	0.78
2:I:579:ARG:HB2	2:I:591:ASP:HB3	1.64	0.78
2:K:358:ARG:HH21	2:K:383:VAL:HG21	1.48	0.78
2:L:1915:LEU:HD21	2:L:1939:LEU:HD22	1.64	0.78
2:L:493:MET:HA	2:L:497:ASP:HB2	1.66	0.78
1:A:574:ILE:HG23	1:A:579:MET:CB	2.12	0.78
2:L:1442:TYR:O	2:L:1445:THR:HG22	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1363:MET:HE1	1:E:1373:VAL:HG21	1.65	0.78
2:I:158:LEU:HD22	2:I:169:ILE:HD11	1.65	0.78
2:J:903:ILE:HD11	2:J:914:TRP:CE2	2.19	0.78
2:K:1120:ILE:HD13	2:K:1173:HIS:CE1	2.17	0.78
2:G:1454:MET:HE2	2:G:1550:SER:HA	1.65	0.78
1:D:669:VAL:O	1:D:673:LEU:HD12	1.84	0.78
2:G:2052:LYS:HD3	2:G:2074:TRP:HE1	1.46	0.78
2:I:854:VAL:HG21	2:I:1070:PRO:HA	1.65	0.78
2:K:2057:GLU:HA	2:K:2060:ARG:NH1	1.98	0.78
2:H:1442:TYR:O	2:H:1445:THR:HG22	1.83	0.78
1:E:824:LEU:HB3	1:E:839:ILE:CD1	2.12	0.78
1:F:616:HIS:HA	1:F:633:THR:HG23	1.66	0.78
1:F:777:LEU:O	1:F:781:ILE:HG13	1.84	0.78
2:K:493:MET:HA	2:K:497:ASP:HB2	1.64	0.78
1:B:741:ASP:OD1	1:B:793:ARG:HD3	1.84	0.78
1:E:973:TRP:CE2	1:E:1648:LYS:HB2	2.19	0.78
2:G:595:SER:HB3	2:G:602:PRO:CG	2.13	0.78
2:J:1706:MET:O	2:J:1709:TYR:HB3	1.84	0.78
2:K:2059:HIS:CE1	2:K:2068:ALA:HB2	2.18	0.78
1:F:60:THR:HG23	2:L:1922:VAL:HG13	1.64	0.78
1:B:1499:ARG:CD	1:D:1476:ARG:HH12	1.96	0.78
1:E:430:VAL:HG11	1:E:490:VAL:HG11	1.66	0.78
2:H:300:THR:HB	2:H:303:GLU:H	1.49	0.78
2:J:911:GLN:HE21	2:J:1064:THR:HG23	1.49	0.78
2:K:471:ASP:HB3	2:K:474:THR:O	1.83	0.78
2:L:685:VAL:HG12	2:L:687:ILE:HG13	1.66	0.78
1:A:669:VAL:O	1:A:673:LEU:HD12	1.83	0.77
1:C:613:PRO:HG2	1:C:633:THR:HG21	1.65	0.77
1:F:22:PHE:HE2	2:L:2017:PHE:CG	2.01	0.77
2:G:1594:ARG:NH1	2:G:1594:ARG:HG2	1.90	0.77
2:K:1594:ARG:HG2	2:K:1594:ARG:NH1	1.93	0.77
2:K:718:PRO:HG2	2:K:727:VAL:HG21	1.64	0.77
2:L:590:VAL:HG23	2:L:1091:HIS:NE2	1.99	0.77
2:L:903:ILE:HD11	2:L:914:TRP:CE2	2.18	0.77
1:C:430:VAL:HG11	1:C:490:VAL:HG11	1.66	0.77
1:D:408:GLN:HG2	1:D:1610:ARG:HH12	1.50	0.77
1:D:31:THR:HG23	2:J:2040:ILE:HG21	1.66	0.77
2:J:917:ARG:HG3	2:J:917:ARG:NH1	1.92	0.77
2:K:1890:ARG:HH22	2:K:1996:ILE:HD11	1.48	0.77
2:K:208:LEU:HD12	2:K:227:ILE:HD11	1.67	0.77
2:K:856:THR:HG23	2:K:866:HIS:CD2	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1890:ARG:HH22	2:L:1996:ILE:HD11	1.48	0.77
1:D:729:ILE:HA	1:D:736:LEU:CD2	2.14	0.77
1:E:965:TYR:CE1	1:E:1199:LEU:HD22	2.20	0.77
1:F:498:THR:HG21	1:F:858:LEU:HA	1.64	0.77
1:F:729:ILE:HA	1:F:736:LEU:CD2	2.14	0.77
2:G:493:MET:HA	2:G:497:ASP:HB2	1.66	0.77
2:H:747:ARG:HH11	2:H:780:SER:HB3	1.48	0.77
2:K:855:ILE:HD13	2:K:856:THR:H	1.49	0.77
1:E:1032:MET:CE	1:E:1165:PRO:HB3	2.13	0.77
2:H:1460:THR:HG22	2:H:1462:GLN:H	1.47	0.77
2:H:622:MET:SD	2:H:652:ILE:HD11	2.23	0.77
2:I:2052:LYS:HD3	2:I:2074:TRP:HE1	1.46	0.77
2:K:2052:LYS:HD3	2:K:2074:TRP:HE1	1.46	0.77
1:B:1278:GLY:HA2	1:B:1630:LYS:HE2	1.66	0.77
1:D:1342:ARG:HH12	1:D:1347:THR:HB	1.48	0.77
2:G:1288:PHE:O	2:G:1292:VAL:HG23	1.84	0.77
2:G:1746:THR:HB	2:G:1792:THR:HG23	1.65	0.77
2:H:595:SER:HB3	2:H:602:PRO:CG	2.15	0.77
2:J:284:GLY:H	2:J:289:ILE:HD12	1.49	0.77
2:J:747:ARG:HH11	2:J:780:SER:HB3	1.49	0.77
2:J:855:ILE:HD13	2:J:856:THR:H	1.50	0.77
2:L:783:GLY:HA3	2:L:1075:TYR:HB3	1.66	0.77
2:H:1602:LEU:HG	2:H:1606:ILE:CD1	2.14	0.77
2:I:1602:LEU:HG	2:I:1606:ILE:CD1	2.14	0.77
2:J:685:VAL:HG12	2:J:687:ILE:HG13	1.65	0.77
2:K:289:ILE:HG23	2:K:490:LEU:HD22	1.66	0.77
2:L:930:THR:HG22	2:L:933:GLU:HG3	1.66	0.77
1:B:1342:ARG:HH12	1:B:1347:THR:HB	1.49	0.77
2:H:459:LYS:HA	2:H:485:ASP:OD1	1.84	0.77
2:H:579:ARG:HB2	2:H:591:ASP:HB3	1.66	0.77
2:H:856:THR:HG23	2:H:866:HIS:CD2	2.18	0.77
2:I:856:THR:HG23	2:I:866:HIS:CD2	2.19	0.77
2:J:376:ARG:HB3	2:J:394:PRO:HG2	1.64	0.77
1:A:777:LEU:O	1:A:781:ILE:HG13	1.85	0.77
1:B:1279:ALA:O	1:B:1282:THR:HG23	1.85	0.77
1:D:1342:ARG:HH11	1:D:1347:THR:HB	1.48	0.77
2:G:1231:THR:HG23	2:G:1595:VAL:HG21	1.64	0.77
2:I:487:ILE:HB	2:I:488:PRO:HD3	1.66	0.77
2:J:2015:LYS:HB2	2:J:2016:PRO:HD3	1.67	0.77
1:D:1617:ILE:H	1:D:1617:ILE:HD13	1.50	0.77
1:E:1224:SER:HB2	1:E:1307:PHE:O	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1700:GLN:HA	2:G:1704:MET:HE1	1.64	0.77
2:G:855:ILE:HD13	2:G:856:THR:H	1.50	0.77
2:L:300:THR:HB	2:L:303:GLU:H	1.49	0.77
1:E:964:LYS:O	1:E:966:PRO:HD3	1.85	0.77
2:H:855:ILE:HD13	2:H:856:THR:H	1.49	0.77
2:K:358:ARG:NH2	2:K:383:VAL:HG21	2.00	0.77
2:K:579:ARG:HB2	2:K:591:ASP:HB3	1.65	0.77
2:L:2036:ILE:HG22	2:L:2037:GLY:N	2.00	0.77
1:A:684:THR:HG23	1:A:686:ARG:H	1.48	0.76
1:D:973:TRP:CE2	1:D:1648:LYS:HB2	2.20	0.76
2:L:1460:THR:HG22	2:L:1462:GLN:H	1.50	0.76
1:A:1278:GLY:HA2	1:A:1630:LYS:HE2	1.67	0.76
1:C:973:TRP:CE2	1:C:1648:LYS:HB2	2.20	0.76
1:E:440:SER:HB3	1:E:481:LEU:HD23	1.66	0.76
2:H:1915:LEU:HD21	2:H:1939:LEU:HD22	1.66	0.76
2:I:1460:THR:HG22	2:I:1462:GLN:H	1.50	0.76
2:I:284:GLY:H	2:I:289:ILE:HD12	1.50	0.76
2:I:747:ARG:HH11	2:I:780:SER:HB3	1.50	0.76
2:J:1764:MET:HB3	2:J:1780:ILE:HD12	1.66	0.76
2:J:493:MET:HA	2:J:497:ASP:HB2	1.67	0.76
2:J:818:THR:HG22	2:J:829:LYS:HB2	1.67	0.76
1:B:1490:GLY:O	1:B:1509:THR:HB	1.84	0.76
1:D:824:LEU:HB3	1:D:839:ILE:CD1	2.14	0.76
2:G:207:LEU:O	2:G:211:LEU:HG	1.85	0.76
2:H:487:ILE:HB	2:H:488:PRO:HD3	1.66	0.76
2:J:1339:GLY:HA2	2:L:376:ARG:HE	1.50	0.76
2:J:914:TRP:NE1	2:J:916:GLY:HA3	2.00	0.76
2:K:1181:PHE:CE1	2:K:1191:PRO:HD2	2.20	0.76
2:L:818:THR:HG22	2:L:829:LYS:HB2	1.64	0.76
2:G:2057:GLU:HA	2:G:2060:ARG:NH1	2.00	0.76
2:H:336:LEU:O	2:H:340:VAL:HG23	1.86	0.76
2:L:2059:HIS:CE1	2:L:2068:ALA:HB2	2.21	0.76
2:L:284:GLY:H	2:L:289:ILE:HD12	1.49	0.76
1:B:973:TRP:CE2	1:B:1648:LYS:HB2	2.20	0.76
1:C:392:ASP:HB3	1:C:395:LYS:HD2	1.65	0.76
1:D:1443:LEU:CD2	1:D:1470:ARG:HB3	2.08	0.76
1:D:777:LEU:O	1:D:781:ILE:HG13	1.85	0.76
1:E:955:VAL:HG21	2:K:964:ARG:HH21	1.49	0.76
2:H:376:ARG:HB3	2:H:394:PRO:HG2	1.65	0.76
1:C:1674:ILE:HD12	2:I:1010:ALA:HB3	1.68	0.76
2:I:2015:LYS:HB2	2:I:2016:PRO:HD3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1289:TYR:CG	2:J:1370:LEU:HD23	2.20	0.76
2:L:1700:GLN:HA	2:L:1704:MET:HE1	1.65	0.76
2:L:674:ILE:HD13	2:L:705:TYR:CE2	2.20	0.76
1:A:365:GLN:HG3	1:F:365:GLN:CG	2.16	0.76
1:A:565:GLN:HG3	1:F:551:LEU:HD11	1.66	0.76
1:B:965:TYR:CZ	1:B:1199:LEU:HD22	2.21	0.76
1:E:1617:ILE:HD13	1:E:1617:ILE:H	1.50	0.76
2:G:420:PRO:HG3	2:G:847:TYR:CD1	2.21	0.76
2:G:487:ILE:HB	2:G:488:PRO:HD3	1.68	0.76
1:B:1107:GLU:HB2	1:D:1104:GLN:OE1	1.85	0.76
1:B:1565:PRO:HG3	1:B:1572:TRP:CZ3	2.20	0.76
1:B:562:SER:HB3	1:E:551:LEU:HD21	1.66	0.76
2:H:471:ASP:HB3	2:H:474:THR:O	1.86	0.76
2:J:1602:LEU:HG	2:J:1606:ILE:HD11	1.66	0.76
2:J:2059:HIS:CE1	2:J:2068:ALA:HB2	2.21	0.76
2:K:459:LYS:HA	2:K:485:ASP:OD1	1.85	0.76
2:K:622:MET:SD	2:K:652:ILE:HD11	2.26	0.76
1:B:1149:LEU:HB2	1:D:1149:LEU:HB2	1.68	0.76
1:B:1342:ARG:HH11	1:B:1347:THR:HB	1.49	0.76
1:E:1213:VAL:HG22	1:E:1300:ARG:NH2	2.01	0.76
1:E:632:LEU:HA	1:E:635:ILE:HG22	1.68	0.76
2:G:1867:MET:O	2:G:2003:VAL:HG21	1.86	0.76
2:H:2059:HIS:CE1	2:H:2068:ALA:HB2	2.20	0.76
2:H:571:ASP:OD1	2:H:573:VAL:HG23	1.85	0.76
2:K:2037:GLY:HA2	2:K:2048:PHE:O	1.86	0.76
2:L:1194:ARG:CG	2:L:1194:ARG:HH11	1.86	0.76
2:J:1340:LYS:CE	2:L:376:ARG:HH22	1.98	0.76
2:G:1764:MET:HB3	2:G:1780:ILE:HD12	1.68	0.76
2:J:487:ILE:HB	2:J:488:PRO:HD3	1.67	0.76
1:C:1443:LEU:O	1:C:1447:VAL:HG23	1.85	0.76
2:I:440:HIS:CD2	2:I:499:VAL:HG23	2.21	0.76
2:J:1770:ASN:HB2	2:J:1776:LYS:HE2	1.67	0.76
2:K:1617:ARG:HB2	2:K:1635:TYR:CZ	2.20	0.76
2:L:911:GLN:HE21	2:L:1064:THR:HG23	1.50	0.76
2:L:579:ARG:HB2	2:L:591:ASP:HB3	1.66	0.76
2:I:783:GLY:HA3	2:I:1075:TYR:HB3	1.67	0.75
2:J:1890:ARG:HH22	2:J:1996:ILE:HD11	1.49	0.75
2:K:2015:LYS:HB2	2:K:2016:PRO:HD3	1.66	0.75
1:A:1425:LEU:HD21	1:A:1429:ARG:HH21	1.51	0.75
1:A:440:SER:HB3	1:A:481:LEU:HD23	1.68	0.75
1:C:1342:ARG:HH12	1:C:1347:THR:HB	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1279:ALA:O	1:E:1282:THR:HG23	1.86	0.75
1:F:440:SER:HB3	1:F:481:LEU:HD23	1.67	0.75
2:H:590:VAL:HG23	2:H:1091:HIS:NE2	2.01	0.75
2:I:779:GLY:O	2:I:780:SER:HB2	1.85	0.75
2:K:1884:CYS:HB3	2:K:1936:LEU:HD12	1.67	0.75
2:K:265:CYS:SG	2:K:275:LEU:HD12	2.26	0.75
1:C:824:LEU:HB3	1:C:839:ILE:CD1	2.15	0.75
2:H:709:LEU:HD23	2:H:709:LEU:H	1.51	0.75
2:I:1468:ARG:HH12	2:I:1475:LEU:HB2	1.51	0.75
2:J:1115:TYR:HB3	2:J:1267:PRO:HB3	1.68	0.75
2:K:1460:THR:HG22	2:K:1462:GLN:H	1.51	0.75
2:L:1884:CYS:HB3	2:L:1936:LEU:HD12	1.68	0.75
1:D:1079:ARG:HH11	1:D:1079:ARG:CG	1.97	0.75
1:E:1032:MET:HE3	1:E:1165:PRO:HB3	1.66	0.75
1:F:1342:ARG:HH12	1:F:1347:THR:HB	1.50	0.75
1:F:973:TRP:CE2	1:F:1648:LYS:HB2	2.22	0.75
2:G:1602:LEU:HG	2:G:1606:ILE:CD1	2.15	0.75
2:H:208:LEU:HD12	2:H:227:ILE:HD11	1.68	0.75
2:I:1305:LEU:HD11	2:I:1365:LYS:HD2	1.68	0.75
2:I:1420:LYS:HG2	2:I:1425:PRO:HA	1.69	0.75
2:J:595:SER:HB3	2:J:602:PRO:CG	2.15	0.75
2:K:1602:LEU:HG	2:K:1606:ILE:CD1	2.15	0.75
2:K:487:ILE:HB	2:K:488:PRO:HD3	1.67	0.75
2:L:856:THR:HG23	2:L:866:HIS:CD2	2.22	0.75
1:A:392:ASP:HB3	1:A:395:LYS:HD2	1.68	0.75
1:B:1183:VAL:HG11	1:B:1187:THR:HG21	1.68	0.75
1:C:1089:TYR:CE1	1:C:1312:GLU:HG3	2.21	0.75
1:C:767:HIS:CE1	1:D:767:HIS:HE1	2.05	0.75
1:F:1703:VAL:CG1	1:F:1711:LEU:HB3	2.16	0.75
2:G:685:VAL:HG12	2:G:687:ILE:HG13	1.66	0.75
2:H:2052:LYS:HD3	2:H:2074:TRP:CE2	2.21	0.75
2:I:709:LEU:HD23	2:I:709:LEU:H	1.52	0.75
2:J:2005:PHE:CB	2:J:2010:LEU:HD11	2.17	0.75
2:J:374:GLU:HA	2:J:377:HIS:HD2	1.47	0.75
2:J:674:ILE:HD13	2:J:705:TYR:CE2	2.22	0.75
1:D:486:VAL:HG11	1:D:647:GLY:HA3	1.69	0.75
1:E:452:ILE:HD11	1:E:470:GLY:HA3	1.68	0.75
1:E:777:LEU:O	1:E:781:ILE:HG13	1.86	0.75
1:F:1617:ILE:H	1:F:1617:ILE:HD13	1.52	0.75
2:I:376:ARG:HB3	2:I:394:PRO:HG2	1.67	0.75
2:L:2005:PHE:CB	2:L:2010:LEU:HD11	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:824:LEU:HB3	1:A:839:ILE:CD1	2.16	0.75
1:E:729:ILE:HA	1:E:736:LEU:CD2	2.16	0.75
1:F:1079:ARG:HH11	1:F:1079:ARG:CG	1.97	0.75
1:F:1342:ARG:HH11	1:F:1347:THR:HB	1.51	0.75
2:H:911:GLN:HE21	2:H:1064:THR:HG23	1.50	0.75
2:H:493:MET:HA	2:H:497:ASP:HB2	1.67	0.75
2:I:663:ILE:HD12	2:I:663:ILE:H	1.52	0.75
2:J:1985:GLN:O	2:J:1987:VAL:N	2.19	0.75
1:B:1443:LEU:CD2	1:B:1470:ARG:HB3	2.08	0.75
1:A:1431:GLN:HG2	1:E:1431:GLN:OE1	1.87	0.75
2:G:1339:GLY:HA2	2:I:376:ARG:HE	1.52	0.75
1:B:616:HIS:HA	1:B:633:THR:HG23	1.68	0.75
1:C:1279:ALA:O	1:C:1282:THR:HG23	1.87	0.75
1:D:1279:ALA:O	1:D:1282:THR:HG23	1.86	0.75
1:D:1443:LEU:O	1:D:1447:VAL:HG23	1.85	0.75
2:G:1053:ILE:HD12	2:G:1061:VAL:HG22	1.68	0.75
2:G:1770:ASN:HB2	2:G:1776:LYS:HE2	1.68	0.75
2:H:1468:ARG:HH12	2:H:1475:LEU:HB2	1.51	0.75
2:H:1985:GLN:O	2:H:1987:VAL:N	2.19	0.75
2:J:471:ASP:HB3	2:J:474:THR:O	1.87	0.75
2:J:1867:MET:O	2:J:2003:VAL:HG21	1.87	0.74
2:K:709:LEU:H	2:K:709:LEU:HD23	1.52	0.74
2:L:2052:LYS:HB3	2:L:2074:TRP:CE2	2.22	0.74
2:L:487:ILE:HB	2:L:488:PRO:HD3	1.67	0.74
1:C:452:ILE:HD11	1:C:470:GLY:HA3	1.69	0.74
1:E:1094:LYS:HE3	1:E:1316:TYR:CD1	2.21	0.74
1:E:560:LYS:O	1:E:564:LEU:HB2	1.86	0.74
2:H:2052:LYS:HB3	2:H:2074:TRP:CE2	2.22	0.74
2:L:1602:LEU:HG	2:L:1606:ILE:CD1	2.17	0.74
2:L:855:ILE:HD13	2:L:856:THR:H	1.51	0.74
1:F:452:ILE:HD11	1:F:470:GLY:HA3	1.68	0.74
2:I:2037:GLY:HA2	2:I:2048:PHE:O	1.87	0.74
2:K:1706:MET:O	2:K:1709:TYR:HB3	1.87	0.74
2:K:420:PRO:HG3	2:K:847:TYR:HD1	1.53	0.74
2:L:1746:THR:HB	2:L:1792:THR:HG23	1.67	0.74
2:J:1340:LYS:HE3	2:L:376:ARG:HH22	1.51	0.74
1:B:1476:ARG:HH12	1:D:1499:ARG:HD3	1.52	0.74
1:D:423:ARG:O	1:D:429:ILE:HD11	1.88	0.74
2:G:208:LEU:HD12	2:G:227:ILE:HD11	1.68	0.74
2:H:1721:ARG:NH2	2:H:1853:ILE:HD12	2.02	0.74
2:I:2005:PHE:CB	2:I:2010:LEU:HD11	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:663:ILE:HD12	2:L:663:ILE:H	1.51	0.74
2:H:1803:THR:HA	2:H:1806:THR:HB	1.68	0.74
2:I:855:ILE:HD13	2:I:856:THR:H	1.52	0.74
2:K:1289:TYR:CG	2:K:1370:LEU:HD23	2.20	0.74
2:L:208:LEU:HD12	2:L:227:ILE:HD11	1.68	0.74
1:A:1617:ILE:H	1:A:1617:ILE:HD13	1.53	0.74
1:F:741:ASP:OD1	1:F:793:ARG:HD3	1.86	0.74
2:G:265:CYS:SG	2:G:275:LEU:HD12	2.28	0.74
2:H:2005:PHE:CB	2:H:2010:LEU:HD11	2.18	0.74
2:K:1499:LYS:HG3	2:K:1500:ASN:H	1.53	0.74
1:A:1342:ARG:HH11	1:A:1347:THR:HB	1.51	0.74
1:A:560:LYS:O	1:A:564:LEU:HB2	1.87	0.74
1:B:365:GLN:HG3	1:E:365:GLN:CG	2.17	0.74
1:C:41:THR:HG21	2:I:1691:ALA:HB2	1.70	0.74
1:E:1052:ASP:OD2	1:E:1055:THR:HG22	1.88	0.74
1:E:1223:GLY:HA3	1:E:1276:PRO:HD2	1.70	0.74
2:I:610:PRO:HG3	2:I:1047:LEU:HD22	1.69	0.74
2:G:1442:TYR:O	2:G:1445:THR:HG22	1.88	0.74
2:H:382:LEU:HB3	2:H:499:VAL:HB	1.68	0.74
2:K:1468:ARG:HH12	2:K:1475:LEU:HB2	1.52	0.74
2:K:1845:VAL:HG21	2:K:1856:LEU:HD22	1.69	0.74
1:B:486:VAL:HG11	1:B:647:GLY:HA3	1.69	0.74
1:C:528:GLU:O	1:C:611:THR:HG21	1.88	0.74
1:D:524:LYS:HB3	1:D:528:GLU:OE2	1.88	0.74
2:G:1844:LEU:HB3	2:G:1850:VAL:HG21	1.70	0.74
2:G:506:VAL:O	2:G:506:VAL:HG12	1.86	0.74
2:J:1420:LYS:HG2	2:J:1425:PRO:HA	1.69	0.74
2:K:1764:MET:HB3	2:K:1780:ILE:HD12	1.70	0.74
2:K:501:TRP:NE1	2:K:528:THR:HG22	2.02	0.74
1:C:767:HIS:HE1	1:D:767:HIS:CE1	2.05	0.74
1:E:669:VAL:O	1:E:673:LEU:HD12	1.88	0.74
2:G:158:LEU:HD22	2:G:169:ILE:HD11	1.68	0.74
2:H:857:VAL:HG13	2:H:876:TRP:NE1	2.01	0.74
2:I:1770:ASN:HB2	2:I:1776:LYS:HE2	1.70	0.74
2:J:1845:VAL:HG21	2:J:1856:LEU:HD22	1.69	0.74
1:F:1032:MET:CE	1:F:1165:PRO:HB3	2.18	0.73
2:G:1985:GLN:O	2:G:1987:VAL:N	2.19	0.73
2:G:2059:HIS:CE1	2:G:2068:ALA:HB2	2.23	0.73
2:H:1746:THR:HB	2:H:1792:THR:HG23	1.69	0.73
1:A:1107:GLU:HG3	1:A:1108:PRO:HD2	1.68	0.73
1:B:1213:VAL:HG22	1:B:1300:ARG:NH2	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:608:LYS:O	1:B:610:GLU:HG2	1.88	0.73
2:G:622:MET:SD	2:G:652:ILE:HD11	2.28	0.73
2:I:600:VAL:HG13	2:I:601:PRO:HD2	1.69	0.73
2:K:1803:THR:HA	2:K:1806:THR:HB	1.69	0.73
2:K:718:PRO:CG	2:K:727:VAL:HG21	2.18	0.73
2:L:336:LEU:O	2:L:340:VAL:HG23	1.89	0.73
2:L:686:PRO:HB3	2:L:1187:PHE:CE1	2.23	0.73
1:C:1421:ARG:HD2	1:C:1489:PHE:O	1.89	0.73
2:G:1460:THR:HG22	2:G:1462:GLN:H	1.52	0.73
2:G:2015:LYS:HB2	2:G:2016:PRO:HD3	1.69	0.73
2:H:674:ILE:HD13	2:H:705:TYR:CE2	2.23	0.73
2:I:1891:ILE:HD11	2:I:1943:LEU:HB3	1.69	0.73
2:I:779:GLY:HA3	2:I:811:MET:HE3	1.69	0.73
2:K:1915:LEU:HD21	2:K:1939:LEU:HD22	1.68	0.73
2:K:440:HIS:HD2	2:K:497:ASP:O	1.70	0.73
2:L:1706:MET:O	2:L:1709:TYR:HB3	1.88	0.73
1:A:1443:LEU:O	1:A:1447:VAL:HG23	1.89	0.73
1:A:756:ILE:HA	1:A:759:ILE:HD11	1.69	0.73
1:C:616:HIS:HA	1:C:633:THR:HG23	1.69	0.73
1:E:1278:GLY:HA2	1:E:1630:LYS:HE2	1.70	0.73
2:G:1706:MET:O	2:G:1709:TYR:HB3	1.88	0.73
2:G:2052:LYS:HB3	2:G:2074:TRP:CE2	2.22	0.73
2:G:685:VAL:HG23	2:G:1186:ARG:NH1	2.04	0.73
2:H:1499:LYS:HG3	2:H:1500:ASN:H	1.53	0.73
1:E:1342:ARG:HH11	1:E:1347:THR:HB	1.53	0.73
1:F:1279:ALA:O	1:F:1282:THR:HG23	1.88	0.73
2:J:783:GLY:HA3	2:J:1075:TYR:HB3	1.68	0.73
2:K:743:TRP:CG	2:K:761:ILE:HD11	2.24	0.73
2:L:595:SER:HB3	2:L:602:PRO:CG	2.15	0.73
1:A:1213:VAL:HG22	1:A:1300:ARG:NH2	2.04	0.73
1:A:1504:ARG:NH1	1:A:1504:ARG:CG	2.45	0.73
1:B:633:THR:HG22	1:B:637:LEU:HD12	1.69	0.73
1:D:392:ASP:HB3	1:D:395:LYS:HD2	1.70	0.73
2:G:420:PRO:HG3	2:G:847:TYR:HD1	1.53	0.73
2:G:903:ILE:HD11	2:G:914:TRP:CE2	2.24	0.73
2:H:43:PHE:HB2	2:I:22:ARG:HH21	1.52	0.73
2:J:1460:THR:HG22	2:J:1462:GLN:H	1.52	0.73
2:J:2037:GLY:HA2	2:J:2048:PHE:O	1.88	0.73
1:A:1094:LYS:HE3	1:A:1316:TYR:CD1	2.24	0.73
1:B:1052:ASP:OD2	1:B:1055:THR:HG22	1.89	0.73
1:B:423:ARG:O	1:B:429:ILE:HD11	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1703:VAL:HG11	1:D:1711:LEU:HB3	1.71	0.73
2:G:1617:ARG:HB2	2:G:1635:TYR:CZ	2.23	0.73
2:I:1499:LYS:HG3	2:I:1500:ASN:H	1.54	0.73
2:J:158:LEU:HD22	2:J:169:ILE:HD11	1.71	0.73
2:K:930:THR:HG22	2:K:933:GLU:HG3	1.70	0.73
2:L:622:MET:SD	2:L:652:ILE:HD11	2.29	0.73
2:L:709:LEU:HD23	2:L:709:LEU:H	1.54	0.73
1:B:632:LEU:HA	1:B:635:ILE:HG22	1.68	0.73
1:C:632:LEU:HA	1:C:635:ILE:HG22	1.69	0.73
1:D:452:ILE:HD11	1:D:470:GLY:HA3	1.69	0.73
1:E:532:ILE:HG22	1:E:907:PHE:CG	2.24	0.73
2:I:590:VAL:HG23	2:I:1091:HIS:NE2	2.04	0.73
2:J:365:ILE:HG23	2:J:378:ILE:HG22	1.71	0.73
2:K:779:GLY:O	2:K:780:SER:HB2	1.87	0.73
2:L:1770:ASN:HB2	2:L:1776:LYS:HE2	1.70	0.73
2:L:1868:GLN:HG2	2:L:1873:ARG:NH2	2.03	0.73
1:A:452:ILE:HD11	1:A:470:GLY:HA3	1.70	0.73
1:F:1443:LEU:O	1:F:1447:VAL:HG23	1.88	0.73
2:I:1721:ARG:NH2	2:I:1853:ILE:HD12	2.04	0.73
2:I:1918:VAL:HG13	2:I:2006:HIS:HB2	1.69	0.73
2:K:300:THR:HB	2:K:303:GLU:H	1.52	0.73
1:A:1107:GLU:HB2	1:E:1104:GLN:OE1	1.89	0.73
1:E:1443:LEU:O	1:E:1447:VAL:HG23	1.88	0.73
1:C:1107:GLU:HB2	1:F:1104:GLN:OE1	1.89	0.73
2:I:2052:LYS:HB3	2:I:2074:TRP:CE2	2.24	0.73
2:I:420:PRO:HG3	2:I:847:TYR:CD1	2.24	0.73
2:J:622:MET:SD	2:J:652:ILE:HD11	2.29	0.73
2:J:791:TYR:HA	2:J:796:TRP:HD1	1.53	0.73
2:K:1420:LYS:HG2	2:K:1425:PRO:HA	1.71	0.73
2:I:818:THR:HG22	2:I:829:LYS:HB2	1.69	0.72
2:K:461:PRO:HA	2:K:484:GLU:O	1.89	0.72
1:A:1052:ASP:OD2	1:A:1055:THR:HG22	1.88	0.72
1:B:1363:MET:HE1	1:B:1373:VAL:HG21	1.71	0.72
1:E:1443:LEU:CD2	1:E:1470:ARG:HB3	2.07	0.72
2:G:1890:ARG:HH22	2:G:1996:ILE:CD1	2.01	0.72
2:K:1053:ILE:HD12	2:K:1061:VAL:HG22	1.70	0.72
2:K:1721:ARG:NH2	2:K:1853:ILE:HD12	2.05	0.72
2:L:461:PRO:HA	2:L:484:GLU:O	1.89	0.72
2:L:471:ASP:HB3	2:L:474:THR:O	1.89	0.72
2:L:501:TRP:NE1	2:L:528:THR:HG22	2.03	0.72
1:A:427:ARG:HH12	1:A:492:ILE:HG23	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1052:ASP:OD2	1:D:1055:THR:HG22	1.89	0.72
1:E:392:ASP:HB3	1:E:395:LYS:HD2	1.71	0.72
1:E:978:LYS:HB3	1:E:979:PRO:HD3	1.70	0.72
2:H:1301:PHE:HB3	2:H:1364:ARG:HG3	1.70	0.72
2:H:930:THR:HG22	2:H:933:GLU:HG3	1.70	0.72
2:I:471:ASP:HB3	2:I:474:THR:O	1.89	0.72
2:I:609:THR:OG1	2:I:610:PRO:HD3	1.89	0.72
2:L:1499:LYS:HG3	2:L:1500:ASN:H	1.55	0.72
1:B:964:LYS:O	1:B:966:PRO:HD3	1.89	0.72
1:C:1443:LEU:CD2	1:C:1470:ARG:HB3	2.10	0.72
1:E:613:PRO:O	1:E:615:LEU:N	2.22	0.72
2:H:1053:ILE:HD12	2:H:1061:VAL:HG22	1.72	0.72
2:H:942:MET:CE	2:H:955:LEU:HB3	2.20	0.72
2:J:158:LEU:HA	2:J:566:VAL:HG21	1.70	0.72
2:K:2005:PHE:CB	2:K:2010:LEU:HD11	2.18	0.72
2:K:2052:LYS:HB3	2:K:2074:TRP:CE2	2.25	0.72
1:B:669:VAL:O	1:B:673:LEU:HD12	1.90	0.72
1:F:41:THR:HG21	2:L:1691:ALA:HB2	1.71	0.72
2:G:590:VAL:HG23	2:G:1091:HIS:NE2	2.04	0.72
2:H:1764:MET:HB3	2:H:1780:ILE:HD12	1.71	0.72
2:H:1833:PHE:CZ	2:H:2039:TYR:HB2	2.24	0.72
2:J:1053:ILE:HD12	2:J:1061:VAL:HG22	1.70	0.72
2:J:1178:THR:HG22	2:J:1180:VAL:H	1.55	0.72
2:J:489:GLU:HA	2:J:492:ARG:NH1	2.04	0.72
2:L:1845:VAL:HG21	2:L:1856:LEU:HD22	1.71	0.72
1:B:408:GLN:HG2	1:B:1610:ARG:HH12	1.55	0.72
2:G:314:LEU:HG	2:G:318:ILE:HD11	1.71	0.72
2:G:358:ARG:NH2	2:G:383:VAL:HG21	2.05	0.72
2:H:1074:LYS:HE3	2:H:1075:TYR:HE1	1.54	0.72
2:K:1114:GLU:HB3	2:K:1169:TYR:HB3	1.71	0.72
2:L:1764:MET:HB3	2:L:1780:ILE:HD12	1.71	0.72
1:C:1674:ILE:HD11	2:I:1011:GLN:HG3	1.70	0.72
1:C:684:THR:HG23	1:C:686:ARG:H	1.53	0.72
1:A:1104:GLN:OE1	1:E:1107:GLU:HB2	1.89	0.72
2:G:1331:THR:HG22	2:I:329:THR:HA	1.71	0.72
2:K:1985:GLN:O	2:K:1987:VAL:N	2.20	0.72
2:K:791:TYR:HA	2:K:796:TRP:HD1	1.54	0.72
2:K:190:TYR:HD1	2:K:201:ILE:HD13	1.55	0.72
2:K:590:VAL:HG23	2:K:1091:HIS:NE2	2.04	0.72
2:K:911:GLN:HE21	2:K:1064:THR:HG23	1.53	0.72
2:L:930:THR:HG23	2:L:933:GLU:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:767:HIS:HB2	1:C:813:LEU:HD12	1.72	0.72
1:D:30:GLU:HB2	2:J:2045:ALA:HB1	1.69	0.72
2:G:289:ILE:HG12	2:G:493:MET:HE1	1.71	0.72
2:H:251:PRO:HG3	2:H:316:PHE:HA	1.71	0.72
2:K:314:LEU:HG	2:K:318:ILE:HD11	1.72	0.72
2:L:358:ARG:HH21	2:L:383:VAL:HG21	1.54	0.72
1:D:1674:ILE:HD11	2:J:1011:GLN:HG3	1.71	0.72
1:E:539:THR:O	1:E:542:GLN:HG2	1.90	0.72
2:G:2005:PHE:CB	2:G:2010:LEU:HD11	2.19	0.72
2:H:327:PRO:CD	2:I:1338:ARG:HH21	2.02	0.72
2:H:783:GLY:HA3	2:H:1075:TYR:HB3	1.70	0.72
2:J:1181:PHE:CE1	2:J:1191:PRO:HD2	2.25	0.72
2:K:914:TRP:NE1	2:K:916:GLY:HA3	2.05	0.72
2:L:1181:PHE:CE1	2:L:1191:PRO:HD2	2.24	0.72
1:A:617:LEU:N	1:A:617:LEU:HD23	2.05	0.71
1:C:486:VAL:HG11	1:C:647:GLY:HA3	1.70	0.71
1:F:1213:VAL:HG22	1:F:1300:ARG:NH2	2.04	0.71
2:G:289:ILE:HG23	2:G:490:LEU:HD22	1.72	0.71
2:I:1884:CYS:HB3	2:I:1936:LEU:HD12	1.70	0.71
2:I:493:MET:HA	2:I:497:ASP:HB2	1.71	0.71
2:J:1891:ILE:HD11	2:J:1943:LEU:HB3	1.72	0.71
2:J:2052:LYS:HD3	2:J:2074:TRP:CE2	2.24	0.71
2:L:506:VAL:O	2:L:506:VAL:HG12	1.90	0.71
1:B:427:ARG:NH1	1:B:492:ILE:HG23	1.99	0.71
1:E:1674:ILE:HD11	2:K:1011:GLN:HG3	1.72	0.71
1:E:633:THR:HG22	1:E:637:LEU:HD12	1.72	0.71
1:A:365:GLN:CG	1:F:365:GLN:HG3	2.19	0.71
1:F:553:ARG:HH22	1:F:563:GLN:HB3	1.55	0.71
2:G:918:ASN:HB3	2:G:924:VAL:HG21	1.71	0.71
2:J:1194:ARG:HH11	2:J:1194:ARG:CG	1.82	0.71
2:J:663:ILE:H	2:J:663:ILE:HD12	1.56	0.71
2:K:2036:ILE:HG22	2:K:2037:GLY:N	2.05	0.71
2:L:448:HIS:CD2	2:L:491:VAL:HG12	2.26	0.71
1:B:905:LEU:HD22	1:B:911:LEU:HD21	1.73	0.71
1:C:535:TYR:CD1	1:C:610:GLU:N	2.58	0.71
1:D:632:LEU:HA	1:D:635:ILE:HG22	1.71	0.71
1:F:965:TYR:CZ	1:F:1199:LEU:HD22	2.24	0.71
2:G:2052:LYS:HD3	2:G:2074:TRP:CE2	2.25	0.71
2:G:600:VAL:HG13	2:G:601:PRO:HD2	1.72	0.71
2:I:1706:MET:O	2:I:1709:TYR:HB3	1.89	0.71
2:I:1915:LEU:HD21	2:I:1939:LEU:HD22	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:251:PRO:HG3	2:I:316:PHE:HA	1.72	0.71
2:J:347:PRO:HA	2:J:432:PHE:CD1	2.25	0.71
2:K:857:VAL:CG1	2:K:876:TRP:NE1	2.53	0.71
1:A:964:LYS:O	1:A:966:PRO:HD3	1.91	0.71
1:D:560:LYS:O	1:D:564:LEU:HB2	1.89	0.71
1:D:767:HIS:HB2	1:D:813:LEU:HD12	1.71	0.71
1:D:964:LYS:O	1:D:966:PRO:HD3	1.89	0.71
1:B:365:GLN:CG	1:E:365:GLN:HG3	2.18	0.71
1:F:1094:LYS:HE3	1:F:1316:TYR:CD1	2.24	0.71
1:F:486:VAL:HG11	1:F:647:GLY:HA3	1.73	0.71
2:G:1499:LYS:HG3	2:G:1500:ASN:N	2.06	0.71
2:H:1499:LYS:HG3	2:H:1500:ASN:N	2.06	0.71
2:I:336:LEU:O	2:I:340:VAL:HG23	1.91	0.71
2:J:327:PRO:CD	2:K:1338:ARG:HH21	2.04	0.71
2:J:743:TRP:CG	2:J:761:ILE:HD11	2.25	0.71
2:J:779:GLY:O	2:J:780:SER:HB2	1.90	0.71
2:K:1499:LYS:HG3	2:K:1500:ASN:N	2.05	0.71
1:E:955:VAL:HG11	2:K:964:ARG:HE	1.54	0.71
2:J:1340:LYS:CG	2:L:376:ARG:NH2	2.53	0.71
2:L:917:ARG:HG2	2:L:937:ARG:NH1	2.06	0.71
1:B:961:ALA:CB	1:B:1022:LEU:HD12	2.20	0.71
1:F:632:LEU:HA	1:F:635:ILE:HG22	1.73	0.71
2:G:1289:TYR:CG	2:G:1370:LEU:HD23	2.25	0.71
2:G:1499:LYS:HG3	2:G:1500:ASN:H	1.54	0.71
2:I:506:VAL:HG12	2:I:506:VAL:O	1.90	0.71
2:J:2052:LYS:HB3	2:J:2074:TRP:CE2	2.25	0.71
2:K:656:ARG:HH11	2:K:656:ARG:HG2	1.55	0.71
2:L:2052:LYS:HD3	2:L:2074:TRP:CE2	2.24	0.71
1:A:339:GLN:O	1:A:343:ILE:HG13	1.90	0.71
1:C:1079:ARG:HH11	1:C:1079:ARG:CG	2.02	0.71
1:C:538:ARG:HA	1:C:585:MET:HE1	1.73	0.71
1:C:890:ASN:OD1	2:J:1755:LYS:HE2	1.90	0.71
2:G:2036:ILE:HG22	2:G:2037:GLY:N	2.05	0.71
2:H:1420:LYS:HG2	2:H:1425:PRO:HA	1.72	0.71
2:H:1617:ARG:HB2	2:H:1635:TYR:CZ	2.24	0.71
2:H:358:ARG:HH21	2:H:383:VAL:HG21	1.55	0.71
2:I:2059:HIS:CE1	2:I:2068:ALA:HB2	2.24	0.71
2:J:1074:LYS:HE3	2:J:1075:TYR:HE1	1.56	0.71
2:J:609:THR:OG1	2:J:610:PRO:HD3	1.91	0.71
2:K:448:HIS:CD2	2:K:491:VAL:HG12	2.26	0.71
2:L:1053:ILE:HD12	2:L:1061:VAL:HG22	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1803:THR:HA	2:L:1806:THR:HB	1.71	0.71
1:A:1317:GLU:HG3	1:E:1250:LEU:HB2	1.73	0.71
1:A:859:VAL:HG12	1:A:863:VAL:HG23	1.72	0.71
1:A:978:LYS:HB3	1:A:979:PRO:HD3	1.71	0.71
1:B:567:ASN:HA	1:B:570:TYR:HB3	1.72	0.71
1:B:767:HIS:HB2	1:B:813:LEU:HD12	1.73	0.71
1:C:1081:ILE:HA	1:C:1163:GLN:HE22	1.55	0.71
1:D:1081:ILE:HA	1:D:1163:GLN:HE22	1.53	0.71
1:D:1421:ARG:HD2	1:D:1489:PHE:O	1.90	0.71
1:C:1270:THR:HA	1:F:1386:THR:O	1.90	0.71
2:G:613:VAL:CG1	2:G:614:PRO:HD3	2.20	0.71
2:G:638:ALA:HA	2:G:672:TRP:CZ3	2.26	0.71
2:H:1610:MET:HA	2:H:1610:MET:HE2	1.70	0.71
2:J:1506:SER:HA	2:J:1533:GLY:HA2	1.72	0.71
2:L:1007:LEU:HD12	2:L:1007:LEU:N	2.06	0.71
2:L:930:THR:HG22	2:L:933:GLU:CG	2.20	0.71
1:A:423:ARG:O	1:A:429:ILE:HD11	1.91	0.71
1:D:616:HIS:HA	1:D:633:THR:HG23	1.70	0.71
1:E:423:ARG:O	1:E:429:ILE:HD11	1.90	0.71
1:F:427:ARG:NH1	1:F:492:ILE:HG23	1.98	0.71
2:G:1833:PHE:CZ	2:G:2039:TYR:HB2	2.25	0.71
2:G:930:THR:HG22	2:G:933:GLU:HG3	1.72	0.71
2:I:1833:PHE:CZ	2:I:2039:TYR:HB2	2.26	0.71
2:J:358:ARG:HH21	2:J:383:VAL:HG21	1.55	0.71
2:K:942:MET:CE	2:K:955:LEU:HB3	2.20	0.71
2:L:1499:LYS:HG3	2:L:1500:ASN:N	2.06	0.71
2:L:1891:ILE:HD11	2:L:1943:LEU:HB3	1.72	0.71
1:C:1104:GLN:OE1	1:F:1107:GLU:HB2	1.91	0.71
1:B:1386:THR:O	1:D:1270:THR:HA	1.90	0.71
1:F:1443:LEU:CD2	1:F:1470:ARG:HB3	2.11	0.71
2:H:461:PRO:HA	2:H:484:GLU:O	1.90	0.71
2:H:779:GLY:O	2:H:780:SER:HB2	1.90	0.71
2:J:1370:LEU:HD12	2:J:1373:LEU:HD13	1.73	0.71
1:B:1223:GLY:HA3	1:B:1276:PRO:HD2	1.73	0.71
1:C:1278:GLY:HA2	1:C:1630:LYS:HE2	1.71	0.71
2:H:2037:GLY:HA2	2:H:2048:PHE:O	1.91	0.71
2:H:358:ARG:NH2	2:H:383:VAL:HG21	2.05	0.71
2:H:917:ARG:HG2	2:H:937:ARG:NH1	2.06	0.71
2:I:1053:ILE:HD12	2:I:1061:VAL:HG22	1.73	0.71
2:I:472:THR:H	2:I:493:MET:HE3	1.55	0.71
2:K:1348:PHE:O	2:K:1351:VAL:HG12	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:162:ALA:HA	2:K:167:VAL:HG22	1.73	0.71
2:L:1074:LYS:HE3	2:L:1075:TYR:HE1	1.55	0.71
2:L:1420:LYS:HG2	2:L:1425:PRO:HA	1.71	0.71
1:A:1431:GLN:OE1	1:E:1431:GLN:HG2	1.90	0.70
1:E:424:VAL:HG13	1:E:469:LEU:HD11	1.71	0.70
2:G:1232:VAL:HG12	2:G:1246:LEU:HD23	1.73	0.70
2:G:447:ALA:O	2:G:451:ILE:HG13	1.91	0.70
2:G:579:ARG:HB2	2:G:591:ASP:HB3	1.73	0.70
2:H:1706:MET:O	2:H:1709:TYR:HB3	1.91	0.70
2:L:1833:PHE:CZ	2:L:2039:TYR:HB2	2.25	0.70
2:L:314:LEU:HG	2:L:318:ILE:HD11	1.73	0.70
2:L:489:GLU:HA	2:L:492:ARG:NH1	2.04	0.70
1:F:1081:ILE:HA	1:F:1163:GLN:HE22	1.56	0.70
2:G:347:PRO:HA	2:G:432:PHE:CD1	2.26	0.70
2:H:48:LEU:CD1	2:H:101:VAL:HG11	2.21	0.70
2:H:609:THR:OG1	2:H:610:PRO:HD3	1.90	0.70
2:H:930:THR:HG23	2:H:933:GLU:H	1.55	0.70
2:I:1845:VAL:HG21	2:I:1856:LEU:HD22	1.73	0.70
2:J:48:LEU:CD1	2:J:101:VAL:HG11	2.21	0.70
2:K:1074:LYS:HE3	2:K:1075:TYR:HE1	1.56	0.70
2:K:358:ARG:HB2	2:K:389:PHE:CZ	2.26	0.70
2:L:610:PRO:CD	4:L:2101:FMN:H6	2.17	0.70
1:A:616:HIS:HA	1:A:633:THR:HG23	1.72	0.70
1:D:1342:ARG:HB2	1:D:1345:SER:HB2	1.74	0.70
1:E:1617:ILE:N	1:E:1617:ILE:HD13	2.06	0.70
1:A:962:ASN:HB3	2:G:969:ARG:HD2	1.73	0.70
2:H:1802:ALA:HB1	2:H:1804:GLN:HE22	1.56	0.70
2:I:1612:THR:O	2:I:1616:VAL:HG12	1.91	0.70
2:I:289:ILE:HG23	2:I:490:LEU:HD22	1.73	0.70
2:I:314:LEU:HG	2:I:318:ILE:HD11	1.73	0.70
2:J:709:LEU:HD23	2:J:709:LEU:H	1.55	0.70
2:K:250:PHE:HB2	2:K:251:PRO:HD3	1.73	0.70
2:K:251:PRO:HG3	2:K:316:PHE:HA	1.71	0.70
2:L:779:GLY:O	2:L:780:SER:HB2	1.89	0.70
1:A:1224:SER:HB2	1:A:1307:PHE:O	1.92	0.70
1:A:1342:ARG:HH12	1:A:1347:THR:HB	1.55	0.70
1:A:541:VAL:O	1:A:545:LEU:HG	1.91	0.70
1:B:1421:ARG:HD2	1:B:1489:PHE:O	1.91	0.70
1:B:501:ASP:HB3	1:B:505:ASN:HB2	1.74	0.70
2:I:501:TRP:NE1	2:I:528:THR:HG22	2.04	0.70
2:J:1803:THR:HA	2:J:1806:THR:HB	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1617:ILE:N	1:B:1617:ILE:HD13	2.06	0.70
1:C:1617:ILE:N	1:C:1617:ILE:HD13	2.05	0.70
2:G:1074:LYS:HE3	2:G:1075:TYR:HE1	1.57	0.70
2:G:1803:THR:HA	2:G:1806:THR:HB	1.72	0.70
2:G:709:LEU:H	2:G:709:LEU:HD23	1.55	0.70
2:G:573:VAL:HG22	2:G:804:PRO:HB2	1.73	0.70
2:I:1594:ARG:HH11	2:I:1594:ARG:CG	1.95	0.70
2:J:656:ARG:HH11	2:J:656:ARG:HG2	1.56	0.70
1:C:1425:LEU:HD21	1:C:1429:ARG:HH21	1.57	0.70
1:C:423:ARG:O	1:C:429:ILE:HD11	1.91	0.70
1:F:633:THR:HG22	1:F:637:LEU:HD12	1.74	0.70
2:H:600:VAL:HG13	2:H:601:PRO:CD	2.22	0.70
2:I:448:HIS:CD2	2:I:491:VAL:HG12	2.23	0.70
2:L:638:ALA:HA	2:L:672:TRP:CZ3	2.27	0.70
2:L:854:VAL:CG2	2:L:1070:PRO:HA	2.21	0.70
1:B:1214:HIS:HD2	1:B:1216:SER:OG	1.75	0.70
1:C:567:ASN:HA	1:C:570:TYR:HB3	1.74	0.70
1:E:1068:TYR:O	1:E:1072:ILE:HG13	1.91	0.70
1:E:1089:TYR:CE1	1:E:1312:GLU:HG3	2.27	0.70
1:C:1697:LEU:HD21	1:F:1401:LEU:HD22	1.74	0.70
1:F:392:ASP:HB3	1:F:395:LYS:HD2	1.73	0.70
2:H:1888:PRO:HG3	2:H:1900:LEU:HD12	1.73	0.70
2:I:2036:ILE:HG22	2:I:2037:GLY:N	2.06	0.70
2:K:1833:PHE:CZ	2:K:2039:TYR:HB2	2.26	0.70
2:K:293:ALA:HA	2:K:469:VAL:HG21	1.74	0.70
2:K:609:THR:OG1	2:K:610:PRO:HD3	1.92	0.70
1:A:1089:TYR:CE1	1:A:1312:GLU:HG3	2.25	0.70
1:B:1270:THR:HA	1:D:1386:THR:O	1.92	0.70
1:D:633:THR:HG22	1:D:637:LEU:HD12	1.73	0.70
2:G:1084:LYS:O	2:G:1088:ASP:HB2	1.91	0.70
2:G:914:TRP:NE1	2:G:916:GLY:HA3	2.07	0.70
2:H:1867:MET:O	2:H:2003:VAL:HG21	1.92	0.70
2:I:1985:GLN:O	2:I:1987:VAL:N	2.22	0.70
2:I:524:ILE:HG22	2:I:528:THR:HG23	1.73	0.70
2:I:914:TRP:NE1	2:I:916:GLY:HA3	2.07	0.70
2:K:172:ILE:HD11	2:K:501:TRP:CZ2	2.26	0.70
2:L:251:PRO:HG3	2:L:316:PHE:HA	1.72	0.70
1:C:964:LYS:O	1:C:966:PRO:HD3	1.91	0.70
1:E:1702:ARG:CG	1:E:1702:ARG:NH1	2.44	0.70
2:G:854:VAL:CG2	2:G:1070:PRO:HA	2.21	0.70
2:G:917:ARG:HG2	2:G:937:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:718:PRO:HG2	2:H:727:VAL:HG21	1.72	0.70
2:I:1421:ARG:HD2	2:I:1426:VAL:HG21	1.74	0.70
2:J:1499:LYS:HG3	2:J:1500:ASN:H	1.57	0.70
2:J:336:LEU:O	2:J:340:VAL:HG23	1.92	0.70
2:J:501:TRP:NE1	2:J:528:THR:HG22	2.04	0.70
2:J:638:ALA:HA	2:J:672:TRP:CZ3	2.27	0.70
1:A:424:VAL:HG13	1:A:469:LEU:HD11	1.72	0.70
1:A:767:HIS:HB2	1:A:813:LEU:HD12	1.73	0.70
1:D:961:ALA:CB	1:D:1022:LEU:HD12	2.22	0.70
2:G:911:GLN:HE21	2:G:1064:THR:HG23	1.57	0.70
2:H:284:GLY:H	2:H:289:ILE:HD12	1.57	0.70
2:I:158:LEU:HA	2:I:566:VAL:HG21	1.74	0.70
2:I:656:ARG:HH11	2:I:656:ARG:HG2	1.55	0.70
2:J:448:HIS:CD2	2:J:491:VAL:HG12	2.26	0.70
1:A:405:TRP:CZ3	1:A:1609:SER:HB3	2.27	0.69
1:C:1183:VAL:HG11	1:C:1187:THR:HG21	1.74	0.69
1:E:1342:ARG:HH12	1:E:1347:THR:HB	1.52	0.69
1:E:628:TYR:CZ	1:E:630:LYS:HG2	2.27	0.69
1:E:486:VAL:HG11	1:E:647:GLY:HA3	1.74	0.69
1:F:756:ILE:HA	1:F:759:ILE:HD11	1.74	0.69
1:F:767:HIS:HB2	1:F:813:LEU:HD12	1.72	0.69
2:H:158:LEU:HD22	2:H:169:ILE:HD11	1.74	0.69
2:H:1770:ASN:HB2	2:H:1776:LYS:HE2	1.72	0.69
2:I:1442:TYR:O	2:I:1445:THR:HG22	1.92	0.69
2:I:938:MET:HE1	2:I:959:THR:HA	1.74	0.69
2:J:718:PRO:CG	2:J:727:VAL:HG21	2.21	0.69
2:J:930:THR:HG22	2:J:933:GLU:HG3	1.72	0.69
2:K:1084:LYS:O	2:K:1088:ASP:HB2	1.92	0.69
2:L:358:ARG:NH2	2:L:383:VAL:HG21	2.06	0.69
2:L:867:LYS:HD3	2:L:1065:CYS:SG	2.31	0.69
1:A:613:PRO:HG2	1:A:633:THR:HG21	1.73	0.69
1:C:1224:SER:HB2	1:C:1307:PHE:O	1.93	0.69
1:C:1703:VAL:HG11	1:C:1711:LEU:HB3	1.74	0.69
1:C:562:SER:HB3	1:D:551:LEU:HD21	1.73	0.69
1:D:486:VAL:CG1	1:D:647:GLY:HA3	2.22	0.69
2:G:358:ARG:HH21	2:G:383:VAL:HG21	1.55	0.69
2:G:610:PRO:O	2:G:613:VAL:HG12	1.91	0.69
2:H:930:THR:HG22	2:H:933:GLU:CG	2.22	0.69
2:I:1181:PHE:CE1	2:I:1191:PRO:HD2	2.27	0.69
2:I:1803:THR:HA	2:I:1806:THR:HB	1.73	0.69
2:I:930:THR:HG23	2:I:933:GLU:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1468:ARG:HH12	2:J:1475:LEU:HB2	1.56	0.69
2:J:1985:GLN:C	2:J:1987:VAL:H	1.96	0.69
2:J:461:PRO:HA	2:J:484:GLU:O	1.92	0.69
2:L:289:ILE:HG23	2:L:490:LEU:HD22	1.72	0.69
1:D:1663:LYS:HG2	2:J:1007:LEU:HD11	1.74	0.69
1:E:1079:ARG:CG	1:E:1079:ARG:HH11	2.04	0.69
2:H:1189:THR:O	2:H:1191:PRO:HD3	1.93	0.69
2:H:663:ILE:H	2:H:663:ILE:HD12	1.57	0.69
2:J:1602:LEU:HG	2:J:1606:ILE:CD1	2.22	0.69
2:J:741:LEU:O	2:J:741:LEU:HG	1.92	0.69
2:K:1795:SER:HB3	2:K:1799:LEU:HD12	1.75	0.69
2:L:917:ARG:HD3	2:L:937:ARG:NH2	2.07	0.69
1:A:542:GLN:HB3	1:A:579:MET:SD	2.33	0.69
1:D:330:LYS:HG3	1:D:333:ARG:NH1	2.07	0.69
2:G:1506:SER:HA	2:G:1533:GLY:HA2	1.74	0.69
2:G:336:LEU:O	2:G:340:VAL:HG23	1.93	0.69
2:H:1090:ILE:O	2:H:1094:HIS:HD2	1.75	0.69
2:H:2036:ILE:HG22	2:H:2037:GLY:N	2.07	0.69
2:I:2052:LYS:HD3	2:I:2074:TRP:CE2	2.26	0.69
2:I:718:PRO:HG2	2:I:727:VAL:HG21	1.74	0.69
2:I:918:ASN:HB3	2:I:924:VAL:HG21	1.75	0.69
2:J:718:PRO:HG2	2:J:727:VAL:HG21	1.73	0.69
2:K:2052:LYS:HD3	2:K:2074:TRP:CE2	2.26	0.69
2:K:336:LEU:O	2:K:340:VAL:HG23	1.91	0.69
2:L:289:ILE:HG12	2:L:493:MET:HE1	1.73	0.69
1:B:1470:ARG:O	1:B:1474:ILE:HG13	1.93	0.69
1:C:1413:SER:HA	1:C:1499:ARG:HH22	1.58	0.69
1:C:1702:ARG:CG	1:C:1702:ARG:NH1	2.41	0.69
1:C:853:MET:HG2	1:C:856:ASN:HD22	1.57	0.69
1:D:1089:TYR:CE1	1:D:1312:GLU:HG3	2.28	0.69
1:D:1425:LEU:HD21	1:D:1429:ARG:HH21	1.57	0.69
1:E:617:LEU:N	1:E:617:LEU:HD23	2.07	0.69
1:C:959:PRO:HG2	2:I:974:GLU:HG3	1.75	0.69
2:K:1384:PRO:CB	2:K:1829:ARG:HH12	2.05	0.69
2:K:1770:ASN:HB2	2:K:1776:LYS:HE2	1.74	0.69
2:L:1468:ARG:HH12	2:L:1475:LEU:HB2	1.56	0.69
2:L:1506:SER:HA	2:L:1533:GLY:HA2	1.74	0.69
1:F:15:VAL:HG11	2:L:2022:LEU:HD21	1.74	0.69
2:L:600:VAL:HG13	2:L:601:PRO:CD	2.22	0.69
2:L:609:THR:OG1	2:L:610:PRO:HD3	1.92	0.69
2:L:857:VAL:CG1	2:L:876:TRP:NE1	2.54	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1079:ARG:HH11	1:B:1079:ARG:CG	2.04	0.69
1:B:1267:LEU:HD11	1:B:1303:LEU:HD12	1.75	0.69
1:F:501:ASP:HB3	1:F:505:ASN:HB2	1.75	0.69
2:G:1845:VAL:HG21	2:G:1856:LEU:HD22	1.72	0.69
2:G:501:TRP:NE1	2:G:528:THR:HG22	2.07	0.69
2:G:779:GLY:O	2:G:780:SER:HB2	1.91	0.69
2:H:501:TRP:NE1	2:H:528:THR:HG22	2.06	0.69
2:J:1721:ARG:NH2	2:J:1853:ILE:HD12	2.07	0.69
2:J:251:PRO:HG3	2:J:316:PHE:HA	1.73	0.69
1:D:962:ASN:HB3	2:J:969:ARG:HD2	1.74	0.69
2:L:207:LEU:O	2:L:211:LEU:HG	1.92	0.69
2:L:685:VAL:HG23	2:L:1186:ARG:NH1	2.06	0.69
1:D:1213:VAL:HG22	1:D:1300:ARG:NH2	2.07	0.69
2:G:1456:LEU:HD11	2:G:1543:TYR:HE2	1.58	0.69
2:G:747:ARG:HH11	2:G:780:SER:HB3	1.56	0.69
2:H:1884:CYS:HB3	2:H:1936:LEU:HD12	1.73	0.69
2:H:1891:ILE:HD11	2:H:1943:LEU:HB3	1.73	0.69
2:H:358:ARG:HB2	2:H:389:PHE:CZ	2.28	0.69
2:H:489:GLU:HA	2:H:492:ARG:NH1	2.07	0.69
2:I:117:ASN:HA	2:I:561:ARG:HG3	1.74	0.69
2:K:207:LEU:O	2:K:211:LEU:HG	1.92	0.69
2:K:613:VAL:CG1	2:K:614:PRO:HD3	2.22	0.69
2:K:854:VAL:CG2	2:K:1070:PRO:HA	2.22	0.69
2:L:1084:LYS:O	2:L:1088:ASP:HB2	1.93	0.69
2:L:1985:GLN:O	2:L:1987:VAL:N	2.22	0.69
2:L:2037:GLY:HA2	2:L:2048:PHE:O	1.91	0.69
1:A:1279:ALA:O	1:A:1282:THR:HG23	1.92	0.69
1:C:553:ARG:HH22	1:C:563:GLN:HB3	1.56	0.69
1:C:767:HIS:CE1	1:D:767:HIS:CE1	2.80	0.69
1:E:1672:GLY:HA3	1:E:1678:LEU:CD2	2.21	0.69
1:E:859:VAL:HG12	1:E:863:VAL:HG23	1.73	0.69
1:F:859:VAL:HG12	1:F:863:VAL:HG23	1.75	0.69
2:G:2037:GLY:HA2	2:G:2048:PHE:O	1.93	0.69
2:G:48:LEU:CD1	2:G:101:VAL:HG11	2.23	0.69
2:H:207:LEU:O	2:H:211:LEU:HG	1.93	0.69
2:H:741:LEU:HG	2:H:741:LEU:O	1.91	0.69
2:I:595:SER:HB3	2:I:602:PRO:CG	2.21	0.69
2:I:917:ARG:HD3	2:I:937:ARG:NH2	2.08	0.69
2:J:1318:ALA:HA	2:J:1391:VAL:HG21	1.75	0.69
2:J:610:PRO:CD	4:J:2101:FMN:H6	2.17	0.69
2:J:857:VAL:HG13	2:J:876:TRP:NE1	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1384:PRO:HB3	2:K:1829:ARG:NH1	2.08	0.69
2:K:347:PRO:HA	2:K:432:PHE:CD1	2.28	0.69
2:K:950:TRP:CD1	2:K:956:LYS:HD3	2.28	0.69
2:L:306:THR:O	2:L:310:ARG:HG3	1.93	0.69
2:L:791:TYR:HA	2:L:796:TRP:HD1	1.58	0.69
1:A:1462:ASP:HB2	1:A:1465:ALA:HB3	1.75	0.69
1:B:1250:LEU:HB2	1:D:1317:GLU:HG3	1.75	0.69
1:D:1674:ILE:HD12	2:J:1010:ALA:HB3	1.75	0.69
2:H:1007:LEU:N	2:H:1007:LEU:HD12	2.07	0.69
2:I:1499:LYS:HG3	2:I:1500:ASN:N	2.07	0.69
2:J:1405:ILE:HA	2:J:1445:THR:OG1	1.92	0.69
2:K:1976:CYS:O	2:K:1980:THR:HG23	1.93	0.69
2:L:1120:ILE:HD12	2:L:1167:ASN:O	1.93	0.69
1:A:1617:ILE:N	1:A:1617:ILE:HD13	2.08	0.69
1:F:1223:GLY:HA3	1:F:1276:PRO:HD2	1.75	0.69
1:F:423:ARG:O	1:F:429:ILE:HD11	1.93	0.69
2:G:1468:ARG:HH12	2:G:1475:LEU:HB2	1.56	0.69
2:H:1084:LYS:O	2:H:1088:ASP:HB2	1.93	0.69
2:H:135:GLY:HA2	2:H:138:ARG:NH1	2.08	0.69
2:H:506:VAL:HG12	2:H:506:VAL:O	1.92	0.69
2:J:1884:CYS:HB3	2:J:1936:LEU:HD12	1.74	0.69
2:K:1421:ARG:HD2	2:K:1426:VAL:HG21	1.74	0.69
2:K:489:GLU:HA	2:K:492:ARG:NH1	2.08	0.69
2:K:506:VAL:HG12	2:K:506:VAL:O	1.93	0.69
2:L:718:PRO:CG	2:L:727:VAL:HG21	2.23	0.69
1:A:1480:ARG:O	1:A:1484:GLU:HG3	1.93	0.69
1:A:470:GLY:O	1:A:474:ILE:HG13	1.92	0.69
1:A:539:THR:O	1:A:542:GLN:HG2	1.93	0.69
1:B:1462:ASP:HB2	1:B:1465:ALA:HB3	1.74	0.69
1:B:716:GLN:HB3	1:B:769:ILE:HG23	1.75	0.69
1:C:408:GLN:HG2	1:C:1610:ARG:HH12	1.58	0.69
1:D:1462:ASP:HB2	1:D:1465:ALA:HB3	1.74	0.69
1:F:1183:VAL:HG11	1:F:1187:THR:HG21	1.73	0.69
2:G:1884:CYS:HB3	2:G:1936:LEU:HD12	1.74	0.69
2:H:917:ARG:HD3	2:H:937:ARG:NH2	2.08	0.69
2:I:1506:SER:HA	2:I:1533:GLY:HA2	1.75	0.69
1:C:60:THR:HG23	2:I:1922:VAL:HG13	1.75	0.69
2:I:571:ASP:HB3	2:I:574:LYS:HB2	1.73	0.69
1:D:42:GLU:OE1	2:J:1688:PRO:HB3	1.93	0.69
2:J:1918:VAL:HG13	2:J:2006:HIS:CB	2.23	0.69
2:K:329:THR:HA	2:L:1331:THR:HG22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:914:TRP:NE1	2:L:916:GLY:HA3	2.08	0.69
1:A:1032:MET:CE	1:A:1165:PRO:HB3	2.22	0.68
1:A:1183:VAL:HG11	1:A:1187:THR:HG21	1.75	0.68
1:A:632:LEU:HA	1:A:635:ILE:HG22	1.76	0.68
1:A:729:ILE:HA	1:A:736:LEU:HD21	1.74	0.68
1:D:1702:ARG:HG3	1:D:1702:ARG:NH1	2.05	0.68
1:D:405:TRP:CZ3	1:D:1609:SER:HB3	2.27	0.68
1:E:1640:LYS:HG3	1:E:1641:TYR:CD1	2.28	0.68
2:G:1421:ARG:HD2	2:G:1426:VAL:HG21	1.75	0.68
2:G:917:ARG:HD3	2:G:937:ARG:NH2	2.08	0.68
2:H:465:LEU:HD11	2:H:486:ILE:HD11	1.74	0.68
2:I:930:THR:HG22	2:I:933:GLU:HG3	1.76	0.68
2:J:608:MET:H	2:J:612:THR:HB	1.57	0.68
2:J:918:ASN:HB3	2:J:924:VAL:HG21	1.75	0.68
2:K:306:THR:O	2:K:310:ARG:HG3	1.93	0.68
1:A:628:TYR:CZ	1:A:630:LYS:HG2	2.29	0.68
1:B:1032:MET:CE	1:B:1165:PRO:HB3	2.23	0.68
1:C:1032:MET:CE	1:C:1165:PRO:HB3	2.23	0.68
1:D:406:ALA:CA	1:D:439:ARG:HH11	2.05	0.68
1:F:330:LYS:HG3	1:F:333:ARG:NH1	2.08	0.68
2:G:1375:HIS:HE1	2:G:1610:MET:SD	2.17	0.68
2:G:1383:VAL:HG23	2:G:1428:TYR:HE1	1.58	0.68
2:G:674:ILE:HD13	2:G:705:TYR:CE2	2.28	0.68
2:H:1181:PHE:CE1	2:H:1191:PRO:HD2	2.28	0.68
2:H:914:TRP:NE1	2:H:916:GLY:HA3	2.07	0.68
2:I:501:TRP:HZ2	2:I:528:THR:HG21	1.58	0.68
2:I:674:ILE:HD13	2:I:705:TYR:CE2	2.28	0.68
2:J:129:ILE:HD13	2:J:132:LYS:HE3	1.75	0.68
2:J:186:LEU:CD2	2:J:256:VAL:HG22	2.23	0.68
2:L:1289:TYR:CG	2:L:1370:LEU:HD23	2.27	0.68
2:L:786:GLU:CD	2:L:786:GLU:H	1.96	0.68
1:A:1490:GLY:O	1:A:1509:THR:HB	1.93	0.68
1:A:22:PHE:HE2	2:G:2017:PHE:CG	2.11	0.68
1:B:1005:TRP:CD1	1:B:1561:LEU:HD22	2.29	0.68
1:C:330:LYS:HG3	1:C:333:ARG:NH1	2.08	0.68
1:C:633:THR:HG22	1:C:637:LEU:HD12	1.74	0.68
1:D:398:VAL:HG22	1:D:710:VAL:HG22	1.74	0.68
1:D:859:VAL:HG12	1:D:863:VAL:HG23	1.75	0.68
1:F:1052:ASP:OD2	1:F:1055:THR:HG22	1.94	0.68
1:F:1704:THR:HG23	1:F:1714:PRO:HG3	1.76	0.68
2:G:854:VAL:HG21	2:G:1070:PRO:CA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1985:GLN:C	2:G:1987:VAL:H	1.96	0.68
2:H:1985:GLN:C	2:H:1987:VAL:H	1.97	0.68
2:I:1348:PHE:O	2:I:1351:VAL:HG12	1.93	0.68
2:K:290:VAL:HG22	2:K:490:LEU:HD13	1.76	0.68
2:L:718:PRO:HG2	2:L:727:VAL:HG21	1.74	0.68
1:B:1081:ILE:HA	1:B:1163:GLN:HE22	1.58	0.68
1:B:756:ILE:HA	1:B:759:ILE:HD11	1.74	0.68
1:D:1214:HIS:HD2	1:D:1216:SER:OG	1.76	0.68
1:F:1541:GLN:HE22	1:F:1633:GLN:HE22	1.40	0.68
2:H:289:ILE:HG12	2:H:493:MET:HE1	1.75	0.68
2:I:1356:ALA:HB3	2:I:1397:THR:HG22	1.74	0.68
2:I:1456:LEU:HD11	2:I:1543:TYR:HE2	1.59	0.68
2:J:1084:LYS:O	2:J:1088:ASP:HB2	1.93	0.68
2:J:1833:PHE:CZ	2:J:2039:TYR:HB2	2.29	0.68
2:K:48:LEU:CD1	2:K:101:VAL:HG11	2.22	0.68
2:K:253:ILE:HB	2:K:287:GLN:HE22	1.58	0.68
2:K:584:SER:HB3	2:K:1114:GLU:O	1.93	0.68
1:A:1476:ARG:HH12	1:E:1499:ARG:CD	2.05	0.68
1:B:486:VAL:CG1	1:B:647:GLY:HA3	2.24	0.68
1:B:956:ILE:HA	2:H:977:PRO:HA	1.75	0.68
1:D:580:ASN:OD1	1:D:583:GLN:HB2	1.92	0.68
1:E:655:ALA:HB3	1:E:680:VAL:HG12	1.76	0.68
2:G:117:ASN:HA	2:G:561:ARG:HG3	1.76	0.68
2:G:609:THR:OG1	2:G:610:PRO:HD3	1.93	0.68
2:J:1499:LYS:HG3	2:J:1500:ASN:N	2.08	0.68
2:J:289:ILE:HG23	2:J:490:LEU:HD22	1.75	0.68
2:K:44:GLN:HG3	2:K:101:VAL:HG21	1.73	0.68
2:L:1617:ARG:HB2	2:L:1635:TYR:CZ	2.28	0.68
1:B:1005:TRP:NE1	1:B:1561:LEU:CD2	2.55	0.68
1:D:430:VAL:HG11	1:D:490:VAL:HG11	1.75	0.68
1:D:967:PHE:CD2	1:D:1662:GLN:HB2	2.29	0.68
1:A:15:VAL:HG11	2:G:2022:LEU:HD21	1.74	0.68
2:G:448:HIS:CD2	2:G:491:VAL:HG12	2.26	0.68
2:H:1370:LEU:HD12	2:H:1373:LEU:HD13	1.76	0.68
2:H:1289:TYR:CG	2:H:1370:LEU:HD23	2.28	0.68
2:H:1871:VAL:HB	2:H:2003:VAL:HG22	1.75	0.68
2:I:942:MET:HE1	2:I:955:LEU:HB3	1.74	0.68
2:J:1180:VAL:HG12	2:J:1188:GLN:H	1.59	0.68
2:J:506:VAL:HG12	2:J:506:VAL:O	1.93	0.68
2:K:135:GLY:HA2	2:K:138:ARG:NH1	2.08	0.68
2:K:1455:GLN:HB2	2:K:1551:ILE:HD11	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:623:ASN:OD1	2:K:653:PRO:HD3	1.94	0.68
2:L:1871:VAL:HB	2:L:2003:VAL:HG22	1.74	0.68
2:L:1026:LYS:HG3	3:L:2102:NAP:N7A	2.09	0.68
1:E:1218:VAL:HG13	1:E:1301:VAL:HG13	1.75	0.68
1:E:408:GLN:HG2	1:E:1610:ARG:HH12	1.59	0.68
2:H:43:PHE:CE2	2:I:22:ARG:HB3	2.28	0.68
2:H:718:PRO:CG	2:H:727:VAL:HG21	2.23	0.68
2:H:791:TYR:HA	2:H:796:TRP:HD1	1.56	0.68
2:I:1178:THR:HG22	2:I:1180:VAL:H	1.59	0.68
2:I:930:THR:HG22	2:I:933:GLU:CG	2.24	0.68
2:K:964:ARG:O	2:K:967:GLU:HB2	1.94	0.68
2:L:172:ILE:HD11	2:L:501:TRP:CZ2	2.28	0.68
1:A:1079:ARG:HH11	1:A:1079:ARG:CG	2.04	0.68
1:A:983:GLN:HB3	1:A:1418:ILE:HG21	1.76	0.68
1:C:1102:ILE:HG22	1:C:1104:GLN:HG2	1.75	0.68
1:C:729:ILE:HA	1:C:736:LEU:HD21	1.75	0.68
2:H:172:ILE:HD11	2:H:501:TRP:CZ2	2.28	0.68
2:H:926:LEU:O	2:H:1008:ILE:HD11	1.94	0.68
2:I:172:ILE:HD11	2:I:501:TRP:CZ2	2.28	0.68
2:J:265:CYS:SG	2:J:275:LEU:HD12	2.34	0.68
2:K:1867:MET:O	2:K:2003:VAL:HG21	1.94	0.68
2:K:376:ARG:CB	2:K:394:PRO:HG2	2.22	0.68
2:L:1370:LEU:HD12	2:L:1373:LEU:HD13	1.75	0.68
2:L:699:ILE:HD12	2:L:699:ILE:H	1.58	0.68
1:B:392:ASP:HB3	1:B:395:LYS:HD2	1.76	0.68
2:G:930:THR:HG23	2:G:933:GLU:H	1.57	0.68
2:H:1874:ASP:OD1	2:H:1878:ARG:HB3	1.94	0.68
2:H:306:THR:O	2:H:310:ARG:HG3	1.94	0.68
2:I:1890:ARG:HH22	2:I:1996:ILE:CD1	2.07	0.68
2:I:791:TYR:HA	2:I:796:TRP:HD1	1.54	0.68
2:K:930:THR:HG22	2:K:933:GLU:CG	2.24	0.68
2:L:1178:THR:HG22	2:L:1180:VAL:H	1.59	0.68
1:A:1674:ILE:HD11	2:G:1011:GLN:HG3	1.76	0.68
1:A:486:VAL:HG11	1:A:647:GLY:HA3	1.75	0.68
1:A:962:ASN:HD22	2:G:1006:GLN:NE2	1.90	0.68
1:B:767:HIS:HE1	1:E:767:HIS:CE1	2.12	0.68
1:F:1702:ARG:NH1	1:F:1702:ARG:CG	2.45	0.68
1:F:628:TYR:CZ	1:F:630:LYS:HG2	2.29	0.68
2:G:1888:PRO:HG3	2:G:1900:LEU:HD12	1.75	0.68
2:G:251:PRO:HG3	2:G:316:PHE:HA	1.76	0.68
2:G:718:PRO:CG	2:G:727:VAL:HG21	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1318:ALA:HA	2:H:1391:VAL:HG21	1.76	0.68
2:K:1350:ILE:O	2:K:1354:TRP:HB2	1.93	0.68
1:E:928:ILE:HG12	2:K:1462:GLN:HA	1.76	0.68
1:B:1425:LEU:HD21	1:B:1429:ARG:HH21	1.59	0.67
1:C:1462:ASP:HB2	1:C:1465:ALA:HB3	1.75	0.67
1:D:1223:GLY:HA3	1:D:1276:PRO:HD2	1.76	0.67
1:D:582:SER:O	1:D:586:GLN:HB2	1.94	0.67
1:F:1617:ILE:HD13	1:F:1617:ILE:N	2.09	0.67
2:G:1099:LEU:HD21	2:G:1107:GLU:HG2	1.76	0.67
2:H:656:ARG:HG2	2:H:656:ARG:HH11	1.59	0.67
2:J:1305:LEU:HD11	2:J:1365:LYS:HD2	1.76	0.67
2:J:306:THR:O	2:J:310:ARG:HG3	1.94	0.67
2:J:358:ARG:NH2	2:J:383:VAL:HG21	2.08	0.67
2:L:172:ILE:HD11	2:L:501:TRP:HZ2	1.59	0.67
1:B:406:ALA:CA	1:B:439:ARG:HH11	2.06	0.67
1:C:628:TYR:CZ	1:C:630:LYS:HG2	2.29	0.67
1:D:853:MET:HG2	1:D:856:ASN:HD22	1.58	0.67
1:E:541:VAL:O	1:E:545:LEU:HG	1.94	0.67
2:H:1506:SER:HA	2:H:1533:GLY:HA2	1.75	0.67
2:H:20:SER:O	2:H:38:PRO:HA	1.94	0.67
2:I:1007:LEU:HD12	2:I:1007:LEU:N	2.08	0.67
2:I:1318:ALA:HA	2:I:1391:VAL:HG21	1.75	0.67
2:I:1976:CYS:O	2:I:1980:THR:HG23	1.94	0.67
2:I:786:GLU:H	2:I:786:GLU:CD	1.98	0.67
2:J:1383:VAL:HG23	2:J:1428:TYR:HE1	1.59	0.67
2:J:698:SER:HB3	2:J:701:VAL:HG23	1.74	0.67
2:K:190:TYR:CD1	2:K:201:ILE:HD13	2.28	0.67
2:K:827:GLN:NE2	2:K:827:GLN:H	1.92	0.67
2:K:942:MET:HE1	2:K:955:LEU:HB3	1.76	0.67
2:L:1802:ALA:HB1	2:L:1804:GLN:HE22	1.59	0.67
1:A:967:PHE:CD2	1:A:1374:PRO:HG3	2.29	0.67
1:B:1413:SER:HA	1:B:1499:ARG:HH22	1.59	0.67
1:D:1183:VAL:HG11	1:D:1187:THR:HG21	1.75	0.67
1:E:1209:PHE:CE2	1:E:1301:VAL:HG21	2.29	0.67
2:G:698:SER:HB3	2:G:701:VAL:HG23	1.76	0.67
2:H:743:TRP:CG	2:H:761:ILE:HD11	2.30	0.67
2:I:1454:MET:CE	2:I:1550:SER:HA	2.24	0.67
2:I:1802:ALA:HB1	2:I:1804:GLN:HE22	1.59	0.67
2:J:465:LEU:HD11	2:J:486:ILE:HD11	1.76	0.67
2:J:756:ASP:HA	2:J:843:TRP:CH2	2.30	0.67
2:K:129:ILE:HD13	2:K:132:LYS:HE3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:38:PRO:HD2	2:L:104:LEU:HD11	1.76	0.67
2:L:1099:LEU:HD21	2:L:1107:GLU:HG2	1.76	0.67
1:B:1480:ARG:O	1:B:1484:GLU:HG3	1.94	0.67
1:B:398:VAL:HG22	1:B:710:VAL:HG22	1.75	0.67
1:C:1052:ASP:OD2	1:C:1055:THR:HG22	1.94	0.67
1:D:1224:SER:HB2	1:D:1307:PHE:O	1.94	0.67
1:D:683:THR:HB	1:D:714:PHE:HB3	1.77	0.67
1:E:1336:GLU:O	1:E:1340:MET:HG2	1.95	0.67
1:E:501:ASP:HB3	1:E:505:ASN:HB2	1.76	0.67
2:G:158:LEU:HA	2:G:566:VAL:HG21	1.76	0.67
2:G:1721:ARG:NH2	2:G:1853:ILE:HD12	2.10	0.67
2:J:314:LEU:HG	2:J:318:ILE:HD11	1.76	0.67
2:K:875:PHE:CD1	2:K:905:LYS:HD3	2.30	0.67
2:K:930:THR:HG23	2:K:933:GLU:H	1.60	0.67
2:L:854:VAL:HG21	2:L:1070:PRO:CA	2.25	0.67
1:D:1102:ILE:HG22	1:D:1104:GLN:HG2	1.75	0.67
2:G:1181:PHE:CE1	2:G:1191:PRO:HD2	2.29	0.67
2:G:1976:CYS:O	2:G:1980:THR:HG23	1.95	0.67
2:G:461:PRO:HA	2:G:484:GLU:O	1.94	0.67
2:G:930:THR:HG22	2:G:933:GLU:CG	2.24	0.67
2:H:376:ARG:HH22	2:I:1340:LYS:HE3	1.58	0.67
2:H:638:ALA:HA	2:H:672:TRP:CZ3	2.29	0.67
2:I:253:ILE:HB	2:I:287:GLN:HE22	1.59	0.67
2:I:605:VAL:HG22	2:I:816:MET:HG3	1.75	0.67
2:J:1231:THR:HG22	2:J:1232:VAL:HG13	1.76	0.67
2:J:1331:THR:HG22	2:L:329:THR:HA	1.77	0.67
2:J:1348:PHE:O	2:J:1351:VAL:HG12	1.95	0.67
2:K:465:LEU:HD11	2:K:486:ILE:HD11	1.76	0.67
2:L:1421:ARG:HD2	2:L:1426:VAL:HG21	1.76	0.67
2:L:1383:VAL:HG23	2:L:1428:TYR:HE1	1.59	0.67
1:A:444:LEU:HD22	1:A:448:MET:HG2	1.75	0.67
1:C:1413:SER:HA	1:C:1499:ARG:NH2	2.09	0.67
1:C:831:GLU:HG2	1:D:755:GLU:HG2	1.76	0.67
1:D:1541:GLN:HE22	1:D:1633:GLN:HE22	1.43	0.67
1:E:729:ILE:HA	1:E:736:LEU:HD21	1.76	0.67
2:G:440:HIS:CD2	2:G:499:VAL:HG23	2.29	0.67
2:H:854:VAL:CG2	2:H:1070:PRO:HA	2.24	0.67
2:I:1181:PHE:O	2:I:1188:GLN:HB3	1.95	0.67
2:J:1171:TRP:CD1	2:J:1171:TRP:C	2.68	0.67
2:J:396:ILE:H	2:J:396:ILE:HD12	1.59	0.67
2:K:1891:ILE:HD11	2:K:1943:LEU:HB3	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1348:PHE:O	2:L:1351:VAL:HG12	1.95	0.67
2:L:1456:LEU:HD11	2:L:1543:TYR:HE2	1.60	0.67
2:L:1888:PRO:HG3	2:L:1900:LEU:HD12	1.75	0.67
2:L:440:HIS:CD2	2:L:499:VAL:HG23	2.29	0.67
2:L:967:GLU:HG2	2:L:1000:TYR:CE1	2.30	0.67
1:B:433:CYS:O	1:B:437:MET:HG3	1.95	0.67
1:E:22:PHE:HE1	2:K:1867:MET:HG3	1.60	0.67
1:F:1425:LEU:HD21	1:F:1429:ARG:HH21	1.60	0.67
1:F:408:GLN:HG2	1:F:1610:ARG:HH12	1.60	0.67
1:F:427:ARG:HH11	1:F:492:ILE:HG12	1.59	0.67
2:G:284:GLY:H	2:G:289:ILE:HD12	1.58	0.67
1:B:962:ASN:HD22	2:H:1006:GLN:HE22	1.42	0.67
2:H:1026:LYS:HG3	3:H:2102:NAP:N7A	2.09	0.67
2:H:190:TYR:HD1	2:H:201:ILE:HD13	1.60	0.67
2:H:698:SER:HB3	2:H:701:VAL:HG23	1.77	0.67
2:H:796:TRP:CH2	2:H:805:MET:HE1	2.30	0.67
2:I:1867:MET:O	2:I:2003:VAL:HG21	1.94	0.67
2:I:265:CYS:SG	2:I:275:LEU:HD12	2.35	0.67
2:I:917:ARG:HG2	2:I:937:ARG:NH1	2.10	0.67
2:J:135:GLY:HA2	2:J:138:ARG:NH1	2.09	0.67
2:K:1874:ASP:OD1	2:K:1878:ARG:HB3	1.95	0.67
2:K:1985:GLN:C	2:K:1987:VAL:H	1.97	0.67
2:K:638:ALA:HA	2:K:672:TRP:CZ3	2.30	0.67
2:L:365:ILE:HG23	2:L:378:ILE:HG22	1.77	0.67
1:A:442:PRO:HD2	1:A:443:LEU:HD12	1.76	0.67
1:C:427:ARG:HG3	1:C:427:ARG:NH1	2.07	0.67
1:C:756:ILE:HA	1:C:759:ILE:HD11	1.76	0.67
1:E:1510:TRP:HZ3	1:E:1642:LEU:HA	1.60	0.67
1:E:767:HIS:HB2	1:E:813:LEU:HD12	1.76	0.67
1:E:947:ASP:O	1:E:951:LEU:HG	1.95	0.67
1:E:998:GLY:HA3	1:E:1361:VAL:CG1	2.20	0.67
1:F:1470:ARG:O	1:F:1474:ILE:HG13	1.94	0.67
2:G:329:THR:HA	2:H:1331:THR:HG22	1.76	0.67
2:G:489:GLU:HA	2:G:492:ARG:NH1	2.10	0.67
2:G:656:ARG:HH11	2:G:656:ARG:HG2	1.59	0.67
2:H:1375:HIS:HE1	2:H:1610:MET:SD	2.18	0.67
2:H:1976:CYS:O	2:H:1980:THR:HG23	1.95	0.67
2:H:172:ILE:HD11	2:H:501:TRP:HZ2	1.60	0.67
2:I:220:GLN:C	2:I:222:PRO:HD3	2.15	0.67
2:J:1356:ALA:HB3	2:J:1397:THR:HG22	1.76	0.67
2:J:1802:ALA:HB1	2:J:1804:GLN:HE22	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2036:ILE:HG22	2:J:2037:GLY:N	2.08	0.67
2:J:967:GLU:HG2	2:J:1000:TYR:CE1	2.30	0.67
2:K:367:ALA:O	2:K:370:GLN:HB3	1.94	0.67
2:K:918:ASN:HB3	2:K:924:VAL:HG21	1.77	0.67
1:A:1218:VAL:HG13	1:A:1301:VAL:HG13	1.77	0.67
1:A:421:ARG:HH22	1:A:1613:LYS:HB3	1.60	0.67
1:B:1317:GLU:HG3	1:D:1250:LEU:HB2	1.77	0.67
1:C:1156:PHE:CZ	1:C:1316:TYR:HA	2.29	0.67
1:C:486:VAL:CG1	1:C:647:GLY:HA3	2.25	0.67
1:E:1207:TYR:CZ	1:E:1682:LYS:HD2	2.30	0.67
2:G:663:ILE:H	2:G:663:ILE:HD12	1.60	0.67
2:I:1617:ARG:HB2	2:I:1635:TYR:CZ	2.29	0.67
1:D:15:VAL:HG11	2:J:2022:LEU:HD21	1.77	0.67
2:K:1468:ARG:NH1	2:K:1475:LEU:HB2	2.09	0.67
2:K:186:LEU:CD2	2:K:256:VAL:HG22	2.24	0.67
2:K:447:ALA:O	2:K:451:ILE:HG13	1.94	0.67
2:K:926:LEU:O	2:K:1008:ILE:HD11	1.94	0.67
2:L:1171:TRP:CD1	2:L:1171:TRP:C	2.68	0.67
1:A:1223:GLY:HA3	1:A:1276:PRO:HD2	1.76	0.67
1:C:1541:GLN:HE22	1:C:1633:GLN:HE22	1.41	0.67
1:C:1686:PRO:HB2	1:C:1713:PHE:CD1	2.30	0.67
1:C:501:ASP:HB3	1:C:505:ASN:HB2	1.77	0.67
1:C:683:THR:HB	1:C:714:PHE:HB3	1.76	0.67
1:D:501:ASP:HB3	1:D:505:ASN:HB2	1.77	0.67
1:E:1413:SER:HA	1:E:1499:ARG:HH22	1.60	0.67
1:E:962:ASN:HB3	2:K:969:ARG:HD2	1.75	0.67
2:H:1455:GLN:HB2	2:H:1551:ILE:HD11	1.76	0.67
2:H:1918:VAL:HG13	2:H:2006:HIS:HB2	1.75	0.67
2:H:265:CYS:SG	2:H:275:LEU:HD12	2.34	0.67
2:I:465:LEU:HD11	2:I:486:ILE:HD11	1.75	0.67
2:J:358:ARG:HB2	2:J:389:PHE:CZ	2.29	0.67
2:K:524:ILE:HG22	2:K:528:THR:HG23	1.77	0.67
2:L:611:THR:HG21	2:L:817:MET:HE2	1.76	0.67
1:A:1672:GLY:HA3	1:A:1678:LEU:CD2	2.22	0.66
1:C:961:ALA:HB2	1:C:1022:LEU:HD12	1.77	0.66
1:D:557:ARG:CG	1:D:557:ARG:NH1	2.55	0.66
2:G:926:LEU:O	2:G:1008:ILE:HD11	1.95	0.66
2:G:524:ILE:HG22	2:G:528:THR:HG23	1.77	0.66
2:G:718:PRO:HG2	2:G:727:VAL:HG21	1.77	0.66
1:B:1674:ILE:HD12	2:H:1010:ALA:HB3	1.76	0.66
2:H:1232:VAL:HG12	2:H:1246:LEU:HD23	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:942:MET:HE1	2:H:955:LEU:HB3	1.75	0.66
2:I:1468:ARG:NH1	2:I:1475:LEU:HB2	2.09	0.66
2:I:950:TRP:CD1	2:I:956:LYS:HD3	2.30	0.66
2:J:1874:ASP:OD1	2:J:1878:ARG:HB3	1.95	0.66
2:K:1383:VAL:HG23	2:K:1428:TYR:HE1	1.59	0.66
2:K:605:VAL:HG22	2:K:816:MET:HG3	1.76	0.66
2:K:768:ILE:O	2:K:774:ILE:HD12	1.95	0.66
2:L:1125:ASP:O	2:L:1126:GLU:HB2	1.95	0.66
2:L:1356:ALA:HB3	2:L:1397:THR:HG22	1.76	0.66
2:L:270:ARG:HG3	2:L:274:GLU:OE1	1.95	0.66
2:L:698:SER:HB3	2:L:701:VAL:HG23	1.76	0.66
2:L:942:MET:CE	2:L:955:LEU:HB3	2.25	0.66
1:A:1270:THR:HA	1:E:1386:THR:O	1.94	0.66
1:B:562:SER:CB	1:E:551:LEU:HD21	2.25	0.66
1:C:12:THR:O	1:C:16:GLU:HG2	1.95	0.66
1:C:859:VAL:HG12	1:C:863:VAL:HG23	1.75	0.66
2:G:1114:GLU:HB3	2:G:1169:TYR:HB3	1.76	0.66
2:G:162:ALA:HA	2:G:167:VAL:HG22	1.77	0.66
2:H:314:LEU:HG	2:H:318:ILE:HD11	1.77	0.66
2:I:1985:GLN:C	2:I:1987:VAL:H	1.98	0.66
2:I:207:LEU:O	2:I:211:LEU:HG	1.95	0.66
2:J:110:GLU:HA	2:J:114:MET:HB2	1.76	0.66
2:J:524:ILE:HG22	2:J:528:THR:HG23	1.78	0.66
2:K:1290:TYR:CD2	2:K:1299:VAL:HB	2.30	0.66
2:K:1888:PRO:HG3	2:K:1900:LEU:HD12	1.77	0.66
1:A:1413:SER:HA	1:A:1499:ARG:HH22	1.60	0.66
1:B:859:VAL:HG12	1:B:863:VAL:HG23	1.77	0.66
1:D:756:ILE:HA	1:D:759:ILE:HD11	1.78	0.66
1:F:1504:ARG:NH1	1:F:1504:ARG:CG	2.45	0.66
1:F:575:ARG:O	1:F:579:MET:HG3	1.95	0.66
1:F:962:ASN:HD22	2:L:1006:GLN:HE22	1.43	0.66
2:G:1455:GLN:HB2	2:G:1551:ILE:HD11	1.78	0.66
2:G:1610:MET:HE2	2:G:1610:MET:HA	1.76	0.66
2:G:465:LEU:HD11	2:G:486:ILE:HD11	1.75	0.66
2:H:1348:PHE:O	2:H:1351:VAL:HG12	1.94	0.66
2:K:868:LEU:O	2:K:870:THR:HG23	1.95	0.66
1:A:1005:TRP:CD1	1:A:1561:LEU:HD22	2.30	0.66
1:A:1214:HIS:HD2	1:A:1216:SER:OG	1.78	0.66
1:A:503:ARG:HA	1:A:933:ILE:HD11	1.77	0.66
1:B:575:ARG:O	1:B:579:MET:HG3	1.95	0.66
1:F:1032:MET:HE2	1:F:1165:PRO:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1462:ASP:HB2	1:F:1465:ALA:HB3	1.75	0.66
1:F:1421:ARG:HD2	1:F:1489:PHE:O	1.96	0.66
1:F:506:ILE:HD11	1:F:926:SER:HB3	1.75	0.66
2:G:1178:THR:HG22	2:G:1180:VAL:H	1.59	0.66
2:H:1421:ARG:HD2	2:H:1426:VAL:HG21	1.77	0.66
2:H:1454:MET:CE	2:H:1550:SER:HA	2.25	0.66
2:J:327:PRO:HD2	2:K:1338:ARG:NH2	2.11	0.66
2:K:1026:LYS:HG3	3:K:2102:NAP:N7A	2.10	0.66
2:K:1099:LEU:HD12	2:K:1103:TYR:HB2	1.78	0.66
2:L:1976:CYS:O	2:L:1980:THR:HG23	1.94	0.66
2:J:1331:THR:O	2:L:329:THR:HG22	1.95	0.66
2:L:48:LEU:CD1	2:L:101:VAL:HG11	2.25	0.66
1:A:1307:PHE:HB3	1:A:1357:CYS:CB	2.26	0.66
1:A:408:GLN:HG2	1:A:1610:ARG:NH1	2.10	0.66
1:B:729:ILE:HA	1:B:736:LEU:HD21	1.76	0.66
1:F:567:ASN:HA	1:F:570:TYR:HB3	1.76	0.66
2:G:1046:SER:O	2:G:1049:GLN:HG3	1.96	0.66
2:H:1701:GLU:H	2:H:1704:MET:HE3	1.60	0.66
2:I:270:ARG:HG3	2:I:274:GLU:OE1	1.95	0.66
2:J:1888:PRO:HG3	2:J:1900:LEU:HD12	1.77	0.66
2:K:420:PRO:HG3	2:K:847:TYR:CD1	2.29	0.66
2:K:117:ASN:OD1	2:K:561:ARG:HB2	1.95	0.66
2:L:44:GLN:HG3	2:L:101:VAL:HG21	1.78	0.66
2:L:918:ASN:HB3	2:L:924:VAL:HG21	1.77	0.66
1:D:1032:MET:CE	1:D:1165:PRO:HB3	2.24	0.66
1:D:729:ILE:HA	1:D:736:LEU:HD21	1.77	0.66
1:D:978:LYS:HB3	1:D:979:PRO:HD3	1.77	0.66
1:E:533:SER:O	1:E:611:THR:HA	1.95	0.66
1:F:433:CYS:O	1:F:437:MET:HG3	1.95	0.66
2:G:1802:ALA:HB1	2:G:1804:GLN:HE22	1.59	0.66
2:G:306:THR:O	2:G:310:ARG:HG3	1.95	0.66
2:I:1115:TYR:HB3	2:I:1267:PRO:HB3	1.76	0.66
2:I:1888:PRO:HG3	2:I:1900:LEU:HD12	1.75	0.66
2:K:1506:SER:HA	2:K:1533:GLY:HA2	1.77	0.66
2:K:663:ILE:HD12	2:K:663:ILE:H	1.59	0.66
2:K:796:TRP:CH2	2:K:805:MET:HE1	2.29	0.66
2:L:1318:ALA:HA	2:L:1391:VAL:HG21	1.75	0.66
2:L:656:ARG:HH11	2:L:656:ARG:HG2	1.60	0.66
1:A:1541:GLN:HE22	1:A:1633:GLN:HE22	1.44	0.66
1:A:1640:LYS:HG3	1:A:1641:TYR:CD1	2.31	0.66
1:B:1086:PHE:CE2	1:B:1310:PHE:HD2	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1490:GLY:O	1:C:1509:THR:HB	1.96	0.66
1:D:1617:ILE:HD13	1:D:1617:ILE:N	2.10	0.66
1:F:1005:TRP:CD1	1:F:1561:LEU:HD22	2.30	0.66
2:G:1420:LYS:HG2	2:G:1425:PRO:HA	1.76	0.66
2:G:172:ILE:HD11	2:G:501:TRP:CZ2	2.31	0.66
2:G:743:TRP:CG	2:G:761:ILE:HD11	2.31	0.66
2:H:1456:LEU:HD11	2:H:1543:TYR:HE2	1.61	0.66
2:H:610:PRO:CD	4:H:2101:FMN:H6	2.21	0.66
2:H:472:THR:H	2:H:493:MET:HE3	1.61	0.66
2:I:779:GLY:O	2:I:780:SER:CB	2.43	0.66
2:J:382:LEU:HB3	2:J:499:VAL:HB	1.76	0.66
2:J:950:TRP:CD1	2:J:956:LYS:HD3	2.30	0.66
2:K:220:GLN:C	2:K:222:PRO:HD3	2.16	0.66
2:K:845:ASN:HB3	2:K:851:THR:OG1	1.95	0.66
2:L:1874:ASP:OD1	2:L:1878:ARG:HB3	1.96	0.66
2:L:1985:GLN:C	2:L:1987:VAL:H	1.98	0.66
1:A:330:LYS:HG3	1:A:333:ARG:NH1	2.11	0.66
1:A:406:ALA:CA	1:A:439:ARG:HH11	2.05	0.66
1:B:1541:GLN:HE22	1:B:1633:GLN:HE22	1.41	0.66
1:C:405:TRP:CZ3	1:C:1609:SER:HB3	2.31	0.66
1:D:1413:SER:HA	1:D:1499:ARG:HH22	1.61	0.66
1:F:1005:TRP:NE1	1:F:1561:LEU:CD2	2.58	0.66
2:G:1171:TRP:C	2:G:1171:TRP:CD1	2.68	0.66
2:G:964:ARG:O	2:G:967:GLU:HB2	1.96	0.66
2:H:1701:GLU:H	2:H:1704:MET:CE	2.09	0.66
2:H:467:ILE:HG23	2:H:468:PRO:HD2	1.78	0.66
2:H:950:TRP:CD1	2:H:956:LYS:HD3	2.31	0.66
2:I:48:LEU:CD1	2:I:101:VAL:HG11	2.26	0.66
2:I:358:ARG:HH21	2:I:383:VAL:HG21	1.60	0.66
2:G:1340:LYS:HG3	2:I:376:ARG:NH2	2.11	0.66
2:J:930:THR:HG23	2:J:933:GLU:H	1.61	0.66
2:K:600:VAL:HG13	2:K:601:PRO:CD	2.26	0.66
2:K:743:TRP:HZ2	2:K:757:PHE:HA	1.61	0.66
2:L:358:ARG:HB2	2:L:389:PHE:CZ	2.31	0.66
2:L:670:MET:HA	2:L:673:GLN:HB2	1.78	0.66
1:B:1640:LYS:HG3	1:B:1641:TYR:CD1	2.31	0.66
1:C:1090:ASP:OD1	1:C:1092:ASN:HB2	1.96	0.66
1:D:746:PHE:CE1	1:D:800:PRO:HG3	2.31	0.66
1:E:1490:GLY:O	1:E:1509:THR:HB	1.96	0.66
1:F:1640:LYS:HG3	1:F:1641:TYR:CD1	2.31	0.66
2:G:1048:TRP:HE1	2:G:1049:GLN:HE21	1.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1692:TYR:HD1	2:G:1847:LEU:HD21	1.61	0.66
2:G:1891:ILE:HD11	2:G:1943:LEU:HB3	1.76	0.66
2:G:293:ALA:HA	2:G:469:VAL:HG21	1.78	0.66
2:G:942:MET:CE	2:G:955:LEU:HB3	2.26	0.66
2:H:894:GLU:O	2:H:897:LYS:HG2	1.96	0.66
2:I:367:ALA:O	2:I:370:GLN:HB3	1.96	0.66
2:J:549:ASN:ND2	2:J:551:GLU:H	1.93	0.66
2:K:867:LYS:HD3	2:K:1065:CYS:SG	2.36	0.66
2:K:1181:PHE:O	2:K:1188:GLN:HB3	1.96	0.66
2:K:57:PRO:HG2	2:K:68:GLU:HG3	1.77	0.66
2:L:1579:ASN:O	2:L:1583:VAL:HG23	1.96	0.66
2:L:2036:ILE:HG22	2:L:2037:GLY:H	1.61	0.66
2:L:743:TRP:CG	2:L:761:ILE:HD11	2.31	0.66
1:A:430:VAL:HG11	1:A:490:VAL:HG11	1.76	0.66
1:B:1089:TYR:CE1	1:B:1312:GLU:HG3	2.31	0.66
1:C:1386:THR:O	1:F:1270:THR:HA	1.96	0.66
1:C:978:LYS:HB3	1:C:979:PRO:HD3	1.77	0.66
1:E:616:HIS:HA	1:E:633:THR:HG23	1.76	0.66
1:E:632:LEU:HA	1:E:635:ILE:CG2	2.25	0.66
1:E:926:SER:O	1:E:930:GLN:HG2	1.96	0.66
1:A:552:ILE:HD11	1:F:552:ILE:HG12	1.78	0.66
1:F:729:ILE:HA	1:F:736:LEU:HD21	1.77	0.66
2:H:1048:TRP:HE1	2:H:1049:GLN:HE21	1.44	0.66
2:H:129:ILE:HD13	2:H:132:LYS:HE3	1.77	0.66
2:H:289:ILE:HG23	2:H:490:LEU:HD22	1.78	0.66
2:H:623:ASN:OD1	2:H:653:PRO:HD3	1.96	0.66
2:H:756:ASP:HA	2:H:843:TRP:CH2	2.31	0.66
2:J:549:ASN:HD22	2:J:551:GLU:H	1.44	0.66
2:K:1802:ALA:HB1	2:K:1804:GLN:HE22	1.60	0.66
2:L:584:SER:HB3	2:L:1114:GLU:O	1.96	0.66
2:L:894:GLU:O	2:L:897:LYS:HG2	1.94	0.66
2:L:964:ARG:O	2:L:967:GLU:HB2	1.96	0.66
1:A:501:ASP:HB3	1:A:505:ASN:HB2	1.78	0.65
1:A:655:ALA:HB3	1:A:680:VAL:HG12	1.77	0.65
1:B:1413:SER:HA	1:B:1499:ARG:NH2	2.11	0.65
1:B:41:THR:HG21	2:H:1691:ALA:HB2	1.78	0.65
1:B:427:ARG:NH1	1:B:427:ARG:HG3	2.03	0.65
1:B:628:TYR:CZ	1:B:630:LYS:HG2	2.30	0.65
1:C:442:PRO:HD2	1:C:443:LEU:HD12	1.77	0.65
1:C:684:THR:HG21	1:C:691:VAL:HG11	1.77	0.65
1:D:1413:SER:HA	1:D:1499:ARG:NH2	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1581:LEU:HD23	1:F:1617:ILE:HG12	1.78	0.65
2:G:1874:ASP:OD1	2:G:1878:ARG:HB3	1.96	0.65
2:H:1171:TRP:CD1	2:H:1171:TRP:C	2.69	0.65
2:H:1468:ARG:NH1	2:H:1475:LEU:HB2	2.10	0.65
2:H:220:GLN:C	2:H:222:PRO:HD3	2.16	0.65
2:I:610:PRO:CD	4:I:2101:FMN:H6	2.20	0.65
2:J:930:THR:HG22	2:J:933:GLU:CG	2.25	0.65
2:K:1851:MET:HE2	2:K:1855:SER:HB3	1.78	0.65
2:K:284:GLY:H	2:K:289:ILE:HD12	1.59	0.65
2:K:674:ILE:HD13	2:K:705:TYR:CE2	2.31	0.65
1:C:1081:ILE:HA	1:C:1163:GLN:NE2	2.11	0.65
1:C:1476:ARG:HH12	1:F:1499:ARG:CD	2.07	0.65
1:D:30:GLU:HB2	2:J:2045:ALA:CB	2.26	0.65
1:E:1504:ARG:CG	1:E:1504:ARG:NH1	2.47	0.65
1:E:442:PRO:HD2	1:E:443:LEU:HD12	1.77	0.65
2:G:1745:LEU:HB3	2:G:1799:LEU:CD2	2.26	0.65
2:G:501:TRP:HZ2	2:G:528:THR:HG21	1.61	0.65
2:I:38:PRO:HD2	2:I:104:LEU:HD11	1.77	0.65
2:I:110:GLU:HA	2:I:114:MET:HB2	1.79	0.65
2:I:172:ILE:HD11	2:I:501:TRP:HZ2	1.61	0.65
2:I:718:PRO:CG	2:I:727:VAL:HG21	2.26	0.65
2:J:1181:PHE:O	2:J:1188:GLN:HB3	1.95	0.65
2:J:1290:TYR:CD2	2:J:1299:VAL:HB	2.30	0.65
2:J:1612:THR:O	2:J:1616:VAL:HG12	1.97	0.65
2:J:600:VAL:HG13	2:J:601:PRO:CD	2.27	0.65
1:E:1674:ILE:HD12	2:K:1010:ALA:HB3	1.78	0.65
2:K:172:ILE:HD11	2:K:501:TRP:HZ2	1.60	0.65
2:L:382:LEU:HB3	2:L:499:VAL:HB	1.78	0.65
1:F:962:ASN:HB3	2:L:969:ARG:HD2	1.78	0.65
1:A:1336:GLU:O	1:A:1340:MET:HG2	1.96	0.65
1:C:1663:LYS:HG2	2:I:1007:LEU:HD11	1.79	0.65
1:D:962:ASN:HD22	2:J:1006:GLN:HE22	1.43	0.65
1:E:421:ARG:HH22	1:E:1613:LYS:HB3	1.61	0.65
2:H:117:ASN:OD1	2:H:561:ARG:HB2	1.97	0.65
2:H:882:LYS:HB3	2:H:898:ARG:HH12	1.61	0.65
2:I:306:THR:O	2:I:310:ARG:HG3	1.96	0.65
2:J:670:MET:HA	2:J:673:GLN:HB2	1.77	0.65
2:K:1692:TYR:HD1	2:K:1847:LEU:HD21	1.61	0.65
2:K:270:ARG:HG3	2:K:274:GLU:OE1	1.95	0.65
2:K:289:ILE:HG12	2:K:493:MET:CE	2.25	0.65
2:K:501:TRP:HZ2	2:K:528:THR:HG21	1.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:186:LEU:CD2	2:L:256:VAL:HG22	2.27	0.65
1:A:1081:ILE:HA	1:A:1163:GLN:HE22	1.60	0.65
1:A:1413:SER:HA	1:A:1499:ARG:NH2	2.11	0.65
1:A:1702:ARG:NH1	1:A:1702:ARG:HG3	2.09	0.65
1:C:1094:LYS:HE3	1:C:1316:TYR:CD1	2.30	0.65
1:C:1342:ARG:HB2	1:C:1345:SER:HB2	1.78	0.65
1:C:22:PHE:HE1	2:I:1867:MET:HG3	1.61	0.65
1:C:620:LYS:HA	1:C:625:ASN:O	1.97	0.65
1:C:777:LEU:O	1:C:781:ILE:HG13	1.96	0.65
1:D:1209:PHE:CE2	1:D:1301:VAL:HG21	2.32	0.65
1:D:444:LEU:HD22	1:D:448:MET:HG2	1.76	0.65
1:D:628:TYR:CZ	1:D:630:LYS:HG2	2.32	0.65
1:E:1102:ILE:HG22	1:E:1104:GLN:HG2	1.77	0.65
1:E:1483:ALA:HA	1:E:1486:GLN:HE21	1.61	0.65
2:G:549:ASN:HD22	2:G:550:THR:N	1.95	0.65
2:I:1220:ARG:HA	2:I:1229:VAL:O	1.96	0.65
2:I:1455:GLN:HB2	2:I:1551:ILE:HD11	1.77	0.65
2:I:549:ASN:HD22	2:I:551:GLU:H	1.44	0.65
2:J:1722:ALA:CB	2:J:1812:LEU:HD21	2.26	0.65
2:K:1067:LEU:HB2	4:K:2101:FMN:C7M	2.27	0.65
2:K:917:ARG:HG2	2:K:937:ARG:NH1	2.10	0.65
1:A:1510:TRP:HZ3	1:A:1642:LEU:HA	1.60	0.65
1:B:1342:ARG:HB2	1:B:1345:SER:HB2	1.78	0.65
1:B:1524:GLY:HA2	1:B:1531:ASP:OD1	1.96	0.65
1:B:538:ARG:HA	1:B:585:MET:HE1	1.77	0.65
1:C:1363:MET:HE3	1:C:1368:ALA:HB2	1.79	0.65
1:D:1640:LYS:HG3	1:D:1641:TYR:CD1	2.32	0.65
1:F:905:LEU:HD22	1:F:911:LEU:HD21	1.77	0.65
2:H:365:ILE:HG23	2:H:378:ILE:HG22	1.78	0.65
2:H:501:TRP:HZ2	2:H:528:THR:HG21	1.62	0.65
2:I:833:VAL:HG13	2:I:1077:LYS:HA	1.79	0.65
2:J:1351:VAL:HG23	2:J:1584:SER:HA	1.79	0.65
2:J:253:ILE:HB	2:J:287:GLN:HE22	1.62	0.65
2:K:20:SER:O	2:K:38:PRO:HA	1.96	0.65
2:K:810:CYS:HG	2:K:812:PHE:HE1	1.44	0.65
2:L:135:GLY:HA2	2:L:138:ARG:NH1	2.11	0.65
2:L:1692:TYR:HD1	2:L:1847:LEU:HD21	1.60	0.65
1:C:965:TYR:OH	1:C:1199:LEU:HD22	1.96	0.65
1:E:1425:LEU:HD21	1:E:1429:ARG:HH21	1.61	0.65
1:E:1470:ARG:O	1:E:1474:ILE:HG13	1.97	0.65
1:E:406:ALA:CA	1:E:439:ARG:HH11	2.08	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:756:ILE:HA	1:E:759:ILE:HD11	1.78	0.65
1:E:989:ASN:H	1:E:1491:ASN:ND2	1.91	0.65
1:F:612:ILE:CD1	1:F:907:PHE:HZ	2.10	0.65
2:G:358:ARG:HB2	2:G:389:PHE:CZ	2.31	0.65
2:G:365:ILE:HG23	2:G:378:ILE:HG22	1.79	0.65
2:G:376:ARG:CB	2:G:394:PRO:HG2	2.26	0.65
2:G:613:VAL:HG13	2:G:614:PRO:HD3	1.79	0.65
2:I:1692:TYR:HD1	2:I:1847:LEU:HD21	1.62	0.65
2:I:1933:LEU:O	2:I:1989:LEU:HD21	1.97	0.65
2:J:1009:ASN:O	2:J:1013:VAL:HG23	1.96	0.65
2:J:854:VAL:CG2	2:J:1070:PRO:HA	2.24	0.65
2:J:1617:ARG:HB2	2:J:1635:TYR:CZ	2.30	0.65
2:K:854:VAL:HG21	2:K:1070:PRO:CA	2.26	0.65
2:K:1579:ASN:O	2:K:1583:VAL:HG23	1.96	0.65
2:K:1701:GLU:H	2:K:1704:MET:CE	2.10	0.65
2:K:833:VAL:HG13	2:K:1077:LYS:HA	1.79	0.65
1:A:890:ASN:OD1	2:L:1755:LYS:HE2	1.97	0.65
2:L:501:TRP:HZ2	2:L:528:THR:HG21	1.60	0.65
1:B:1209:PHE:CE2	1:B:1301:VAL:HG21	2.31	0.65
1:B:1686:PRO:HB2	1:B:1713:PHE:HD1	1.61	0.65
1:B:1702:ARG:HG3	1:B:1702:ARG:NH1	2.04	0.65
1:C:655:ALA:HB3	1:C:680:VAL:HG12	1.79	0.65
1:B:1150:ILE:HG12	1:D:1148:LEU:HD21	1.77	0.65
1:B:557:ARG:HD2	1:E:557:ARG:O	1.96	0.65
1:F:1483:ALA:HA	1:F:1486:GLN:HE21	1.61	0.65
1:F:1674:ILE:HD12	2:L:1010:ALA:HB3	1.79	0.65
2:G:781:GLY:HA2	2:G:1071:VAL:HG13	1.79	0.65
2:H:825:SER:HB2	2:H:1053:ILE:HG13	1.79	0.65
2:I:358:ARG:HB2	2:I:389:PHE:CZ	2.32	0.65
2:J:172:ILE:HD11	2:J:501:TRP:CZ2	2.32	0.65
2:L:1231:THR:HG22	2:L:1232:VAL:HG13	1.79	0.65
2:L:524:ILE:HG22	2:L:528:THR:HG23	1.79	0.65
1:E:330:LYS:HG3	1:E:333:ARG:NH1	2.11	0.65
1:E:853:MET:HG2	1:E:856:ASN:HD22	1.61	0.65
1:F:961:ALA:CB	1:F:1022:LEU:HD12	2.26	0.65
2:G:1231:THR:HG22	2:G:1232:VAL:HG13	1.79	0.65
2:G:270:ARG:HG3	2:G:274:GLU:OE1	1.97	0.65
2:G:845:ASN:HB3	2:G:851:THR:OG1	1.97	0.65
2:H:1305:LEU:H	2:H:1305:LEU:HD12	1.62	0.65
2:H:786:GLU:H	2:H:786:GLU:CD	2.00	0.65
2:I:1305:LEU:HD21	2:I:1365:LYS:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1338:ARG:HH21	2:L:327:PRO:HD2	1.62	0.65
2:L:220:GLN:C	2:L:222:PRO:HD3	2.17	0.65
1:C:1640:LYS:HG3	1:C:1641:TYR:CD1	2.32	0.65
2:H:524:ILE:HG22	2:H:528:THR:HG23	1.77	0.65
2:I:584:SER:HB3	2:I:1114:GLU:O	1.95	0.65
2:I:638:ALA:HA	2:I:672:TRP:CZ3	2.32	0.65
2:K:1115:TYR:HB3	2:K:1267:PRO:HB3	1.78	0.65
2:K:752:HIS:NE2	2:K:856:THR:CG2	2.60	0.65
2:L:1007:LEU:H	2:L:1007:LEU:CD1	2.09	0.65
2:L:1375:HIS:HE1	2:L:1610:MET:SD	2.19	0.65
1:C:444:LEU:HD22	1:C:448:MET:HG2	1.79	0.65
1:E:1183:VAL:HG11	1:E:1187:THR:HG21	1.79	0.65
1:A:1250:LEU:HB2	1:E:1317:GLU:HG3	1.78	0.65
2:G:135:GLY:HA2	2:G:138:ARG:NH1	2.13	0.65
2:G:1404:VAL:HG22	2:G:1413:VAL:HG22	1.78	0.65
2:G:605:VAL:HG22	2:G:816:MET:HG3	1.79	0.65
2:H:918:ASN:HB3	2:H:924:VAL:HG21	1.77	0.65
2:I:1171:TRP:CD1	2:I:1171:TRP:C	2.70	0.65
2:I:1603:PRO:HG2	2:I:1642:MET:HE3	1.79	0.65
2:I:741:LEU:O	2:I:741:LEU:HG	1.97	0.65
2:J:1454:MET:CE	2:J:1550:SER:HA	2.27	0.65
1:D:60:THR:HG23	2:J:1922:VAL:HG13	1.79	0.65
2:K:1220:ARG:HA	2:K:1229:VAL:O	1.96	0.65
2:L:129:ILE:HD13	2:L:132:LYS:HE3	1.78	0.65
2:L:741:LEU:HG	2:L:741:LEU:O	1.96	0.65
1:A:1451:LYS:HG2	1:A:1454:ARG:NH2	2.12	0.64
1:B:330:LYS:HG3	1:B:333:ARG:NH1	2.12	0.64
1:E:1541:GLN:HE22	1:E:1633:GLN:HE22	1.45	0.64
1:E:444:LEU:HD22	1:E:448:MET:HG2	1.78	0.64
1:F:1413:SER:HA	1:F:1499:ARG:NH2	2.12	0.64
2:G:1189:THR:O	2:G:1191:PRO:HD3	1.96	0.64
2:G:1918:VAL:HG13	2:G:2006:HIS:CB	2.27	0.64
2:G:686:PRO:HB3	2:G:1187:PHE:CE1	2.32	0.64
2:G:87:VAL:HG22	2:G:98:ASN:HB3	1.79	0.64
2:H:1890:ARG:HH22	2:H:1996:ILE:CD1	2.10	0.64
2:H:87:VAL:HG22	2:H:98:ASN:HB3	1.78	0.64
2:I:358:ARG:NH2	2:I:383:VAL:HG21	2.12	0.64
2:I:854:VAL:CG2	2:I:1070:PRO:HA	2.27	0.64
2:J:1603:PRO:HG2	2:J:1642:MET:HE3	1.78	0.64
2:J:440:HIS:CD2	2:J:499:VAL:HG23	2.32	0.64
2:J:172:ILE:HD11	2:J:501:TRP:HZ2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:779:GLY:HA3	2:J:811:MET:HE3	1.77	0.64
2:J:786:GLU:CD	2:J:786:GLU:H	1.99	0.64
2:L:1048:TRP:CD2	2:L:1049:GLN:HG2	2.32	0.64
2:J:1338:ARG:NH2	2:L:327:PRO:HD2	2.11	0.64
1:B:553:ARG:HH22	1:B:563:GLN:HB3	1.62	0.64
1:C:852:LEU:HD12	3:C:1901:NAP:O2A	1.97	0.64
2:G:1220:ARG:HA	2:G:1229:VAL:O	1.97	0.64
2:H:661:ASN:HD21	4:H:2101:FMN:HN3	1.44	0.64
2:H:43:PHE:CD2	2:I:22:ARG:CG	2.79	0.64
2:I:549:ASN:ND2	2:I:551:GLU:H	1.94	0.64
2:J:1090:ILE:O	2:J:1094:HIS:HD2	1.80	0.64
2:K:1231:THR:HG22	2:K:1232:VAL:HG13	1.79	0.64
2:K:967:GLU:HG2	2:K:1000:TYR:CE1	2.32	0.64
2:L:2036:ILE:CG2	2:L:2037:GLY:N	2.60	0.64
2:L:661:ASN:HD21	4:L:2101:FMN:HN3	1.44	0.64
1:A:1342:ARG:HB2	1:A:1345:SER:HB2	1.79	0.64
1:A:956:ILE:HA	2:G:977:PRO:HA	1.79	0.64
1:C:1149:LEU:HB2	1:F:1149:LEU:HB2	1.79	0.64
1:C:1480:ARG:O	1:C:1484:GLU:HG3	1.97	0.64
2:G:756:ASP:HA	2:G:843:TRP:CH2	2.32	0.64
2:H:1290:TYR:CD2	2:H:1299:VAL:HB	2.30	0.64
2:J:1099:LEU:HD12	2:J:1103:TYR:HB2	1.79	0.64
2:K:781:GLY:HA2	2:K:1071:VAL:HG13	1.78	0.64
2:K:1650:THR:O	2:K:1669:ALA:HA	1.96	0.64
2:K:610:PRO:CD	4:K:2101:FMN:H6	2.23	0.64
2:L:1171:TRP:CZ3	2:L:1236:LEU:HB2	2.33	0.64
2:L:605:VAL:HG22	2:L:816:MET:HG3	1.79	0.64
1:B:888:ILE:HA	1:B:891:LEU:HD12	1.79	0.64
1:C:11:TYR:O	1:C:15:VAL:HG23	1.97	0.64
1:C:1702:ARG:HG3	1:C:1702:ARG:NH1	2.08	0.64
1:C:632:LEU:HA	1:C:635:ILE:CG2	2.27	0.64
1:D:852:LEU:HD12	3:D:1901:NAP:O2A	1.96	0.64
1:E:1480:ARG:O	1:E:1484:GLU:HG3	1.98	0.64
1:E:421:ARG:NH2	1:E:1613:LYS:HB3	2.13	0.64
1:F:1413:SER:HA	1:F:1499:ARG:HH22	1.61	0.64
2:G:1067:LEU:HB2	4:G:2101:FMN:C7M	2.27	0.64
2:G:1324:PHE:HA	2:G:1583:VAL:HG11	1.79	0.64
2:G:220:GLN:C	2:G:222:PRO:HD3	2.17	0.64
1:B:31:THR:HG23	2:H:2040:ILE:HG21	1.78	0.64
2:H:347:PRO:HA	2:H:432:PHE:CD1	2.32	0.64
2:H:781:GLY:HA2	2:H:1071:VAL:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1048:TRP:CD2	2:I:1049:GLN:HG2	2.32	0.64
2:I:135:GLY:HA2	2:I:138:ARG:NH1	2.12	0.64
2:I:1026:LYS:HG3	3:I:2102:NAP:N7A	2.11	0.64
2:I:756:ASP:HA	2:I:843:TRP:CH2	2.33	0.64
2:J:1220:ARG:HA	2:J:1229:VAL:O	1.97	0.64
2:J:1324:PHE:N	2:J:1583:VAL:HG11	2.12	0.64
2:J:1551:ILE:HG22	2:J:1552:GLU:HG3	1.79	0.64
2:J:1890:ARG:HH22	2:J:1996:ILE:CD1	2.10	0.64
2:J:1976:CYS:O	2:J:1980:THR:HG23	1.97	0.64
2:J:270:ARG:HG3	2:J:274:GLU:OE1	1.98	0.64
2:K:35:PHE:CE1	2:K:108:GLU:HG3	2.31	0.64
2:K:462:ALA:H	2:K:483:ASP:HA	1.61	0.64
2:K:789:TYR:HB3	2:K:790:PRO:HD3	1.80	0.64
2:L:347:PRO:HA	2:L:432:PHE:CD1	2.32	0.64
2:L:465:LEU:HD11	2:L:486:ILE:HD11	1.78	0.64
1:A:1068:TYR:O	1:A:1072:ILE:HG13	1.98	0.64
1:A:70:ALA:O	2:I:403:LEU:HD12	1.97	0.64
1:D:828:TRP:HE1	1:D:838:THR:HA	1.62	0.64
1:D:998:GLY:HA3	1:D:1361:VAL:CG1	2.25	0.64
1:F:1081:ILE:HA	1:F:1163:GLN:NE2	2.13	0.64
1:F:1342:ARG:HB2	1:F:1345:SER:HB2	1.78	0.64
1:F:424:VAL:HG13	1:F:469:LEU:HD11	1.78	0.64
1:F:852:LEU:HD12	3:F:1901:NAP:O2A	1.96	0.64
2:G:950:TRP:CD1	2:G:956:LYS:HD3	2.33	0.64
2:H:1099:LEU:HD21	2:H:1107:GLU:HG2	1.80	0.64
2:H:1383:VAL:HG23	2:H:1428:TYR:HE1	1.62	0.64
2:H:584:SER:HB3	2:H:1114:GLU:O	1.97	0.64
2:I:501:TRP:CZ2	2:I:528:THR:HG21	2.33	0.64
2:J:549:ASN:HD22	2:J:550:THR:N	1.95	0.64
2:L:367:ALA:O	2:L:370:GLN:HB3	1.98	0.64
1:A:533:SER:CB	1:A:612:ILE:HB	2.27	0.64
1:A:612:ILE:HD12	1:F:579:MET:HE2	1.78	0.64
1:B:767:HIS:CE1	1:E:767:HIS:CE1	2.85	0.64
1:C:424:VAL:HG13	1:C:469:LEU:HD11	1.79	0.64
1:D:424:VAL:HG13	1:D:469:LEU:HD11	1.78	0.64
1:D:843:VAL:HG13	1:D:900:ASP:HA	1.79	0.64
1:B:767:HIS:CE1	1:E:767:HIS:HE1	2.15	0.64
2:H:1356:ALA:HB3	2:H:1397:THR:HG22	1.78	0.64
2:I:1231:THR:HG22	2:I:1232:VAL:HG13	1.79	0.64
2:I:1764:MET:HB3	2:I:1780:ILE:CD1	2.27	0.64
2:I:293:ALA:HA	2:I:469:VAL:HG21	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:467:ILE:HG23	2:I:468:PRO:HD2	1.80	0.64
2:J:1370:LEU:HA	2:J:1435:TYR:HE2	1.63	0.64
2:K:382:LEU:HB3	2:K:499:VAL:HB	1.80	0.64
2:K:501:TRP:CZ2	2:K:528:THR:HG21	2.33	0.64
2:L:35:PHE:CE1	2:L:108:GLU:HG3	2.32	0.64
2:K:376:ARG:HE	2:L:1339:GLY:HA2	1.61	0.64
2:L:1721:ARG:HH21	2:L:1853:ILE:HD12	1.62	0.64
1:E:852:LEU:HD12	3:E:1901:NAP:O2A	1.97	0.64
1:F:1156:PHE:CZ	1:F:1316:TYR:HA	2.33	0.64
1:F:1081:ILE:HG13	1:F:1159:LEU:O	1.98	0.64
1:F:486:VAL:CG1	1:F:647:GLY:HA3	2.27	0.64
2:G:1092:ASN:HA	2:G:1095:ILE:HG12	1.80	0.64
2:G:20:SER:O	2:G:38:PRO:HA	1.98	0.64
2:H:1099:LEU:HD12	2:H:1103:TYR:HB2	1.80	0.64
2:H:655:GLY:HA3	2:H:1272:ALA:CB	2.28	0.64
2:H:448:HIS:CD2	2:H:491:VAL:HG12	2.29	0.64
2:I:1074:LYS:HE3	2:I:1075:TYR:HE1	1.61	0.64
2:I:489:GLU:HA	2:I:492:ARG:NH1	2.12	0.64
2:I:600:VAL:HG13	2:I:601:PRO:CD	2.28	0.64
2:J:1301:PHE:HB3	2:J:1364:ARG:HG3	1.80	0.64
2:K:1232:VAL:HG12	2:K:1246:LEU:HD23	1.79	0.64
2:K:38:PRO:HD2	2:K:104:LEU:HD11	1.78	0.64
2:K:440:HIS:CD2	2:K:499:VAL:HG23	2.32	0.64
2:K:855:ILE:HD13	2:K:856:THR:N	2.13	0.64
2:L:1220:ARG:HA	2:L:1229:VAL:O	1.97	0.64
2:L:1551:ILE:HG22	2:L:1552:GLU:HG3	1.78	0.64
1:D:408:GLN:HG2	1:D:1610:ARG:NH1	2.12	0.64
1:D:907:PHE:O	1:D:909:PRO:HD3	1.98	0.64
1:E:1156:PHE:CZ	1:E:1316:TYR:HA	2.33	0.64
1:E:1214:HIS:HD2	1:E:1216:SER:OG	1.79	0.64
1:F:1214:HIS:HD2	1:F:1216:SER:OG	1.80	0.64
1:C:1250:LEU:HB2	1:F:1317:GLU:HG3	1.80	0.64
2:H:752:HIS:NE2	2:H:856:THR:CG2	2.61	0.64
2:H:845:ASN:HB3	2:H:851:THR:OG1	1.98	0.64
2:J:1456:LEU:HD11	2:J:1543:TYR:HE2	1.62	0.64
2:J:367:ALA:O	2:J:370:GLN:HB3	1.98	0.64
2:J:584:SER:HB3	2:J:1114:GLU:O	1.97	0.64
2:K:1099:LEU:HD21	2:K:1107:GLU:HG2	1.80	0.64
2:K:1890:ARG:HH22	2:K:1996:ILE:CD1	2.10	0.64
2:L:447:ALA:O	2:L:451:ILE:HG13	1.98	0.64
2:L:950:TRP:CD1	2:L:956:LYS:HD3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1581:LEU:HD23	1:B:1617:ILE:HG12	1.80	0.64
1:B:1401:LEU:HD22	1:D:1697:LEU:HD21	1.80	0.64
1:D:421:ARG:HH22	1:D:1613:LYS:HB3	1.63	0.64
1:D:539:THR:O	1:D:542:GLN:HG2	1.97	0.64
1:E:41:THR:HG21	2:K:1691:ALA:HB2	1.80	0.64
2:G:1348:PHE:O	2:G:1351:VAL:HG12	1.98	0.64
2:G:250:PHE:HB2	2:G:251:PRO:HD3	1.80	0.64
2:G:786:GLU:CD	2:G:786:GLU:H	2.01	0.64
2:H:1692:TYR:HD1	2:H:1847:LEU:HD21	1.63	0.64
2:H:374:GLU:CA	2:H:377:HIS:HD2	2.10	0.64
2:I:1351:VAL:HG23	2:I:1584:SER:HA	1.79	0.64
2:J:1455:GLN:HB2	2:J:1551:ILE:HD11	1.79	0.64
2:L:265:CYS:SG	2:L:275:LEU:HD12	2.37	0.64
2:L:608:MET:H	2:L:612:THR:HB	1.62	0.64
2:L:612:THR:HG22	2:L:612:THR:O	1.98	0.64
1:A:1102:ILE:HG22	1:A:1104:GLN:HG2	1.80	0.64
1:B:40:ARG:NH2	1:B:72:THR:HG22	2.13	0.64
1:C:696:GLN:HG3	1:C:697:GLY:N	2.13	0.64
1:D:655:ALA:HB3	1:D:680:VAL:HG12	1.80	0.64
1:A:1386:THR:O	1:E:1270:THR:HA	1.97	0.64
1:E:1413:SER:HA	1:E:1499:ARG:NH2	2.12	0.64
1:F:1089:TYR:CE1	1:F:1312:GLU:HG3	2.33	0.64
1:F:442:PRO:HD2	1:F:443:LEU:HD12	1.78	0.64
1:F:808:PHE:HA	1:F:912:LYS:HD3	1.79	0.64
2:G:367:ALA:O	2:G:370:GLN:HB3	1.98	0.64
2:H:1181:PHE:O	2:H:1188:GLN:HB3	1.98	0.64
2:H:1180:VAL:HG12	2:H:1188:GLN:H	1.61	0.64
2:H:253:ILE:HB	2:H:287:GLN:HE22	1.61	0.64
2:H:153:PRO:HB3	2:H:270:ARG:NH1	2.13	0.64
2:I:1232:VAL:HG12	2:I:1246:LEU:HD23	1.79	0.64
2:I:1290:TYR:CD2	2:I:1299:VAL:HB	2.32	0.64
2:I:698:SER:HB3	2:I:701:VAL:HG23	1.79	0.64
2:J:779:GLY:O	2:J:780:SER:CB	2.45	0.64
2:K:1456:LEU:HD11	2:K:1543:TYR:HE2	1.63	0.64
2:K:49:LYS:O	2:K:53:LEU:HG	1.98	0.64
2:L:253:ILE:HB	2:L:287:GLN:HE22	1.62	0.64
2:L:501:TRP:CZ2	2:L:528:THR:HG21	2.33	0.64
1:D:427:ARG:NH1	1:D:427:ARG:HG3	2.04	0.63
1:F:1524:GLY:HA2	1:F:1531:ASP:OD1	1.98	0.63
1:F:998:GLY:HA3	1:F:1361:VAL:CG1	2.25	0.63
2:G:172:ILE:HD11	2:G:501:TRP:HZ2	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:670:MET:HA	2:G:673:GLN:HB2	1.80	0.63
2:H:162:ALA:HA	2:H:167:VAL:HG22	1.79	0.63
2:I:670:MET:HA	2:I:673:GLN:HB2	1.80	0.63
2:J:44:GLN:HG3	2:J:101:VAL:HG21	1.78	0.63
2:J:220:GLN:C	2:J:222:PRO:HD3	2.18	0.63
2:J:472:THR:H	2:J:493:MET:HE3	1.63	0.63
2:K:110:GLU:HA	2:K:114:MET:HB2	1.80	0.63
2:K:305:ALA:O	2:K:309:LYS:HD3	1.98	0.63
2:K:661:ASN:HD21	4:K:2101:FMN:HN3	1.44	0.63
2:K:785:SER:HA	2:K:788:THR:HB	1.81	0.63
1:F:34:VAL:HG21	2:L:2045:ALA:O	1.97	0.63
2:L:549:ASN:HD22	2:L:551:GLU:H	1.45	0.63
1:A:1156:PHE:CZ	1:A:1316:TYR:HA	2.33	0.63
1:A:1425:LEU:HD21	1:A:1429:ARG:NH2	2.13	0.63
1:B:632:LEU:HA	1:B:635:ILE:CG2	2.27	0.63
1:C:470:GLY:O	1:C:474:ILE:HG13	1.96	0.63
1:D:12:THR:O	1:D:16:GLU:HG2	1.98	0.63
1:D:862:GLY:O	1:D:865:LYS:HB2	1.97	0.63
1:F:1278:GLY:CA	1:F:1630:LYS:HE2	2.28	0.63
2:G:1266:HIS:NE2	2:G:1275:ARG:HD2	2.13	0.63
2:G:779:GLY:O	2:G:780:SER:CB	2.46	0.63
2:G:937:ARG:NE	2:G:941:LEU:HD11	2.13	0.63
2:H:1067:LEU:HB2	4:H:2101:FMN:C7M	2.28	0.63
2:H:608:MET:H	2:H:612:THR:HB	1.63	0.63
2:K:1090:ILE:O	2:K:1094:HIS:HD2	1.81	0.63
2:K:894:GLU:O	2:K:897:LYS:HG2	1.98	0.63
2:K:94:ALA:HB1	2:K:97:THR:OG1	1.98	0.63
2:L:1046:SER:O	2:L:1049:GLN:HG3	1.98	0.63
2:L:1115:TYR:HB3	2:L:1267:PRO:CB	2.21	0.63
2:L:1807:GLN:HB2	2:L:1808:PRO:HD3	1.80	0.63
1:A:1363:MET:HE1	1:A:1373:VAL:CG2	2.28	0.63
1:A:30:GLU:HB2	2:G:2045:ALA:HB1	1.81	0.63
1:C:1213:VAL:HG22	1:C:1300:ARG:NH2	2.13	0.63
1:D:1081:ILE:HA	1:D:1163:GLN:NE2	2.12	0.63
1:D:1094:LYS:HE3	1:D:1316:TYR:CD1	2.33	0.63
1:E:12:THR:O	1:E:16:GLU:HG2	1.99	0.63
2:I:162:ALA:HA	2:I:167:VAL:HG22	1.79	0.63
2:J:1846:ALA:HB3	2:J:1847:LEU:HD12	1.80	0.63
2:J:207:LEU:O	2:J:211:LEU:HG	1.98	0.63
2:J:501:TRP:HZ2	2:J:528:THR:HG21	1.63	0.63
2:K:1265:TYR:O	2:K:1267:PRO:HD3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:610:PRO:O	2:K:613:VAL:HG12	1.99	0.63
2:L:250:PHE:HB2	2:L:251:PRO:HD3	1.80	0.63
1:A:557:ARG:HG3	1:A:557:ARG:NH1	2.03	0.63
1:B:1504:ARG:NH1	1:B:1504:ARG:CG	2.48	0.63
1:B:852:LEU:HD12	3:B:1901:NAP:O2A	1.99	0.63
1:B:424:VAL:HG13	1:B:469:LEU:HD11	1.78	0.63
1:C:1214:HIS:HD2	1:C:1216:SER:OG	1.80	0.63
1:F:1234:GLY:HA2	1:F:1238:ASP:HB2	1.81	0.63
1:F:339:GLN:O	1:F:343:ILE:HG13	1.98	0.63
2:G:253:ILE:HB	2:G:287:GLN:HE22	1.62	0.63
2:H:1231:THR:HG22	2:H:1232:VAL:HG13	1.79	0.63
2:H:250:PHE:HB2	2:H:251:PRO:HD3	1.79	0.63
2:I:1123:ALA:O	2:I:1126:GLU:HG3	1.98	0.63
2:G:1331:THR:O	2:I:329:THR:HG22	1.98	0.63
2:J:1692:TYR:HD1	2:J:1847:LEU:HD21	1.63	0.63
2:K:1351:VAL:HG23	2:K:1584:SER:HA	1.80	0.63
2:K:1404:VAL:HG22	2:K:1413:VAL:HG22	1.81	0.63
2:K:1844:LEU:HB3	2:K:1850:VAL:HG21	1.81	0.63
2:L:1181:PHE:O	2:L:1188:GLN:HB3	1.98	0.63
2:L:1232:VAL:HG12	2:L:1246:LEU:HD23	1.79	0.63
2:L:655:GLY:HA3	2:L:1272:ALA:CB	2.29	0.63
2:L:827:GLN:H	2:L:827:GLN:NE2	1.96	0.63
1:A:1483:ALA:HA	1:A:1486:GLN:HE21	1.64	0.63
1:C:1168:TRP:NE1	1:C:1173:TYR:HE1	1.95	0.63
1:C:1336:GLU:O	1:C:1340:MET:HG2	1.99	0.63
1:D:442:PRO:HD2	1:D:443:LEU:HD12	1.81	0.63
1:F:1086:PHE:CE2	1:F:1310:PHE:HD2	2.15	0.63
1:F:1102:ILE:HG22	1:F:1104:GLN:HG2	1.81	0.63
2:G:396:ILE:H	2:G:396:ILE:HD12	1.63	0.63
2:G:857:VAL:HG13	2:G:876:TRP:NE1	2.13	0.63
2:H:1007:LEU:H	2:H:1007:LEU:CD1	2.11	0.63
2:H:580:LEU:HD12	2:H:1103:TYR:CE2	2.33	0.63
2:H:24:LEU:HD12	2:H:37:VAL:HG21	1.79	0.63
2:I:1084:LYS:O	2:I:1088:ASP:HB2	1.99	0.63
2:I:549:ASN:HD22	2:I:550:THR:N	1.97	0.63
2:I:655:GLY:HA3	2:I:1272:ALA:CB	2.28	0.63
2:I:967:GLU:HG2	2:I:1000:TYR:CE1	2.33	0.63
2:J:1324:PHE:HA	2:J:1583:VAL:HG11	1.81	0.63
2:J:22:ARG:O	2:J:37:VAL:HG23	1.98	0.63
2:J:276:LEU:HD12	2:J:298:ALA:O	1.97	0.63
2:J:845:ASN:HB3	2:J:851:THR:OG1	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1356:ALA:HB3	2:K:1397:THR:HG22	1.79	0.63
2:K:22:ARG:O	2:K:37:VAL:HG23	1.99	0.63
2:K:573:VAL:HG22	2:K:804:PRO:HB2	1.80	0.63
2:L:1455:GLN:HB2	2:L:1551:ILE:HD11	1.80	0.63
1:D:1581:LEU:HD23	1:D:1617:ILE:HG12	1.80	0.63
1:E:1700:GLN:O	1:E:1702:ARG:HG3	1.98	0.63
2:G:833:VAL:HG13	2:G:1077:LYS:HA	1.81	0.63
2:G:580:LEU:HD12	2:G:1103:TYR:CE2	2.33	0.63
2:G:1181:PHE:O	2:G:1188:GLN:HB3	1.99	0.63
2:G:1232:VAL:CG1	2:G:1246:LEU:HD23	2.27	0.63
2:G:752:HIS:CE1	2:G:847:TYR:CE2	2.78	0.63
2:G:875:PHE:CD1	2:G:905:LYS:HD3	2.34	0.63
2:H:110:GLU:HA	2:H:114:MET:HB2	1.81	0.63
2:H:1551:ILE:HG22	2:H:1552:GLU:HG3	1.81	0.63
2:H:367:ALA:O	2:H:370:GLN:HB3	1.99	0.63
2:J:186:LEU:HG	2:J:256:VAL:HG22	1.80	0.63
2:J:38:PRO:HD2	2:J:104:LEU:HD11	1.80	0.63
2:K:788:THR:HG22	2:K:1094:HIS:CE1	2.33	0.63
2:K:1551:ILE:HG22	2:K:1552:GLU:HG3	1.80	0.63
2:K:276:LEU:HD12	2:K:298:ALA:O	1.98	0.63
2:K:756:ASP:HA	2:K:843:TRP:CH2	2.33	0.63
2:L:1370:LEU:HA	2:L:1435:TYR:HE2	1.63	0.63
2:L:942:MET:HE2	2:L:955:LEU:HD13	1.81	0.63
1:B:1260:ALA:O	1:B:1264:MET:HG3	1.98	0.63
1:D:41:THR:HG21	2:J:1691:ALA:HB2	1.81	0.63
1:E:1510:TRP:CZ3	1:E:1642:LEU:HA	2.34	0.63
1:F:632:LEU:HA	1:F:635:ILE:CG2	2.29	0.63
2:G:38:PRO:HD2	2:G:104:LEU:HD11	1.81	0.63
2:G:1370:LEU:HD12	2:G:1373:LEU:HD13	1.80	0.63
2:H:827:GLN:NE2	2:H:827:GLN:H	1.96	0.63
2:I:1015:HIS:NE2	2:I:1019:LEU:HD11	2.13	0.63
2:I:276:LEU:HD12	2:I:298:ALA:O	1.99	0.63
2:I:857:VAL:HG13	2:I:876:TRP:NE1	2.13	0.63
2:J:35:PHE:CE1	2:J:108:GLU:HG3	2.34	0.63
2:J:1318:ALA:HA	2:J:1391:VAL:CG2	2.29	0.63
2:J:1324:PHE:CA	2:J:1583:VAL:HG11	2.29	0.63
2:J:768:ILE:O	2:J:774:ILE:HD12	1.99	0.63
2:J:827:GLN:NE2	2:J:827:GLN:H	1.97	0.63
2:L:1637:VAL:CG1	2:L:1679:LEU:HD22	2.28	0.63
2:L:1890:ARG:HH22	2:L:1996:ILE:CD1	2.10	0.63
2:L:571:ASP:HB3	2:L:574:LYS:HB2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1032:MET:HE3	1:A:1165:PRO:HB3	1.80	0.63
1:A:852:LEU:HD12	3:A:1901:NAP:O2A	1.99	0.63
1:B:926:SER:O	1:B:930:GLN:HG2	1.98	0.63
1:C:430:VAL:O	1:C:434:ILE:HG13	1.99	0.63
1:F:683:THR:HB	1:F:714:PHE:HB3	1.81	0.63
2:G:1701:GLU:H	2:G:1704:MET:CE	2.12	0.63
2:H:1090:ILE:O	2:H:1094:HIS:CD2	2.51	0.63
2:H:141:TYR:OH	2:H:267:THR:HG23	1.98	0.63
2:H:573:VAL:HG22	2:H:804:PRO:HB2	1.81	0.63
2:H:613:VAL:CG1	2:H:614:PRO:HD3	2.28	0.63
2:H:670:MET:HA	2:H:673:GLN:HB2	1.79	0.63
2:I:95:HIS:HB2	2:I:96:PRO:HD3	1.81	0.63
2:J:1436:ARG:HH22	2:J:1602:LEU:HD13	1.64	0.63
2:J:1669:ALA:HB3	2:J:1679:LEU:HB2	1.81	0.63
2:J:1764:MET:HB3	2:J:1780:ILE:CD1	2.29	0.63
2:J:1922:VAL:HB	2:J:1925:MET:HB2	1.80	0.63
2:L:1538:ASN:HB3	2:L:1541:ILE:HG22	1.81	0.63
2:L:1067:LEU:HB2	4:L:2101:FMN:C7M	2.29	0.63
2:L:87:VAL:HG22	2:L:98:ASN:HB3	1.81	0.63
1:B:1102:ILE:HG22	1:B:1104:GLN:HG2	1.80	0.63
1:D:926:SER:O	1:D:930:GLN:HG2	1.99	0.63
2:G:1380:TYR:CD2	2:G:1429:VAL:HG22	2.34	0.63
2:G:549:ASN:HD22	2:G:551:GLU:H	1.46	0.63
2:G:894:GLU:O	2:G:897:LYS:HG2	1.99	0.63
2:G:967:GLU:HG2	2:G:1000:TYR:CE1	2.34	0.63
2:H:38:PRO:HD2	2:H:104:LEU:HD11	1.80	0.63
2:H:934:VAL:O	2:H:938:MET:HG3	1.98	0.63
2:I:24:LEU:HD12	2:I:37:VAL:HG21	1.81	0.63
2:I:743:TRP:CG	2:I:761:ILE:HD11	2.33	0.63
2:K:1046:SER:O	2:K:1049:GLN:HG3	1.99	0.63
2:K:1171:TRP:C	2:K:1171:TRP:CD1	2.71	0.63
2:K:1455:GLN:HB2	2:K:1551:ILE:CD1	2.28	0.63
2:K:934:VAL:O	2:K:938:MET:HG3	1.98	0.63
2:L:1933:LEU:O	2:L:1989:LEU:HD21	1.99	0.63
2:L:193:TYR:CD1	2:L:263:ILE:HD13	2.33	0.63
2:L:372:LEU:HD11	2:L:397:SER:HB2	1.81	0.63
2:L:613:VAL:HG23	2:L:635:TYR:CE1	2.34	0.63
1:A:1363:MET:HE3	1:A:1368:ALA:HB2	1.81	0.62
1:A:574:ILE:HG22	1:A:579:MET:HB2	1.78	0.62
1:B:565:GLN:O	1:B:569:LEU:HD12	1.99	0.62
1:B:40:ARG:HH21	1:B:72:THR:HG22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:406:ALA:CA	1:C:439:ARG:HH11	2.07	0.62
1:C:755:GLU:HG2	1:D:831:GLU:HG2	1.81	0.62
1:F:506:ILE:HD13	1:F:922:ILE:HG22	1.81	0.62
2:G:1318:ALA:HA	2:G:1391:VAL:HG21	1.80	0.62
2:G:1871:VAL:HB	2:G:2003:VAL:HG22	1.81	0.62
2:H:1722:ALA:CB	2:H:1812:LEU:HD21	2.29	0.62
2:H:605:VAL:HG22	2:H:816:MET:HG3	1.81	0.62
2:H:779:GLY:O	2:H:780:SER:CB	2.46	0.62
2:I:1383:VAL:HG23	2:I:1428:TYR:HE1	1.64	0.62
2:I:1455:GLN:HB2	2:I:1551:ILE:CD1	2.29	0.62
2:I:1551:ILE:HG22	2:I:1552:GLU:HG3	1.80	0.62
2:I:1436:ARG:HH22	2:I:1602:LEU:HD13	1.64	0.62
2:J:1099:LEU:HD21	2:J:1107:GLU:HG2	1.80	0.62
2:J:1421:ARG:HD2	2:J:1426:VAL:HG21	1.80	0.62
2:J:250:PHE:HB2	2:J:251:PRO:HD3	1.80	0.62
2:K:1092:ASN:HA	2:K:1095:ILE:HG12	1.79	0.62
2:K:462:ALA:N	2:K:483:ASP:HA	2.14	0.62
2:L:374:GLU:CA	2:L:377:HIS:HD2	2.12	0.62
2:L:756:ASP:HA	2:L:843:TRP:CH2	2.34	0.62
2:L:747:ARG:NH1	2:L:780:SER:HB3	2.14	0.62
1:C:22:PHE:HE2	2:I:2017:PHE:CG	2.16	0.62
1:D:1504:ARG:CG	1:D:1504:ARG:NH1	2.45	0.62
1:E:683:THR:HB	1:E:714:PHE:HB3	1.80	0.62
1:F:12:THR:O	1:F:16:GLU:HG2	1.99	0.62
2:G:788:THR:HG22	2:G:1094:HIS:CE1	2.33	0.62
2:G:372:LEU:HD11	2:G:397:SER:HB2	1.80	0.62
2:G:501:TRP:CZ2	2:G:528:THR:HG21	2.34	0.62
2:H:1579:ASN:O	2:H:1583:VAL:HG23	1.98	0.62
2:H:1650:THR:O	2:H:1669:ALA:HA	1.99	0.62
2:I:20:SER:O	2:I:38:PRO:HA	1.98	0.62
2:I:824:THR:HB	2:I:829:LYS:HE3	1.81	0.62
2:J:1933:LEU:O	2:J:1989:LEU:HD21	1.99	0.62
2:J:20:SER:O	2:J:38:PRO:HA	1.97	0.62
2:K:193:TYR:CD1	2:K:263:ILE:HD13	2.33	0.62
2:K:917:ARG:N	2:K:917:ARG:HD2	2.14	0.62
2:L:1650:THR:O	2:L:1669:ALA:HA	1.98	0.62
2:L:186:LEU:HG	2:L:256:VAL:HG22	1.81	0.62
2:L:663:ILE:CD1	2:L:663:ILE:H	2.10	0.62
2:L:779:GLY:O	2:L:780:SER:CB	2.46	0.62
1:A:1209:PHE:CE2	1:A:1301:VAL:HG21	2.33	0.62
1:A:1510:TRP:CZ3	1:A:1642:LEU:HA	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1081:ILE:HA	1:B:1163:GLN:NE2	2.14	0.62
1:C:1451:LYS:HG2	1:C:1454:ARG:NH2	2.15	0.62
1:C:1480:ARG:NH2	1:F:1488:SER:O	2.30	0.62
1:D:1470:ARG:O	1:D:1474:ILE:HG13	1.98	0.62
1:D:636:TYR:CZ	1:D:640:LEU:HD22	2.34	0.62
1:E:1086:PHE:CE2	1:E:1310:PHE:HD2	2.16	0.62
2:G:193:TYR:CD1	2:G:263:ILE:HD13	2.33	0.62
2:G:796:TRP:CH2	2:G:805:MET:HE1	2.34	0.62
2:H:1178:THR:HG22	2:H:1180:VAL:H	1.62	0.62
2:H:549:ASN:HD22	2:H:550:THR:N	1.97	0.62
2:H:612:THR:HG22	2:H:612:THR:O	1.98	0.62
2:H:964:ARG:O	2:H:967:GLU:HB2	1.99	0.62
2:K:698:SER:HB3	2:K:701:VAL:HG23	1.80	0.62
2:L:926:LEU:O	2:L:1008:ILE:HD11	1.99	0.62
2:L:623:ASN:OD1	2:L:653:PRO:HD3	1.98	0.62
1:B:1234:GLY:HA2	1:B:1238:ASP:HB2	1.81	0.62
1:B:1704:THR:HG23	1:B:1714:PRO:HG3	1.80	0.62
1:B:562:SER:HB3	1:E:551:LEU:CD2	2.30	0.62
1:E:1462:ASP:HB2	1:E:1465:ALA:HB3	1.80	0.62
1:F:617:LEU:N	1:F:617:LEU:HD23	2.13	0.62
2:G:1231:THR:CG2	2:G:1595:VAL:HG11	2.29	0.62
2:H:1404:VAL:HG22	2:H:1413:VAL:HG22	1.81	0.62
2:H:396:ILE:HD12	2:H:396:ILE:H	1.64	0.62
2:H:440:HIS:CD2	2:H:499:VAL:HG23	2.33	0.62
2:J:1200:ARG:HD3	2:J:1200:ARG:N	2.09	0.62
2:J:571:ASP:HB3	2:J:574:LYS:HB2	1.82	0.62
2:J:685:VAL:HG23	2:J:1186:ARG:NH1	2.14	0.62
2:K:1922:VAL:HB	2:K:1925:MET:HB2	1.82	0.62
2:K:706:ILE:HG22	2:K:707:GLN:HG2	1.80	0.62
2:K:917:ARG:HD3	2:K:937:ARG:NH2	2.14	0.62
2:L:1922:VAL:HB	2:L:1925:MET:HB2	1.81	0.62
2:L:20:SER:O	2:L:38:PRO:HA	1.99	0.62
2:L:276:LEU:HD12	2:L:298:ALA:O	1.98	0.62
2:L:376:ARG:CB	2:L:394:PRO:HG2	2.29	0.62
1:A:632:LEU:HA	1:A:635:ILE:CG2	2.29	0.62
1:C:503:ARG:HA	1:C:933:ILE:HD11	1.81	0.62
1:D:1702:ARG:NH1	1:D:1702:ARG:CG	2.40	0.62
1:E:1005:TRP:NE1	1:E:1561:LEU:CD2	2.62	0.62
1:E:1005:TRP:CD1	1:E:1561:LEU:HD22	2.35	0.62
2:G:1515:LEU:O	2:G:1523:ILE:HD12	2.00	0.62
1:A:60:THR:HG23	2:G:1922:VAL:HG13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:743:TRP:HZ2	2:G:757:PHE:HA	1.63	0.62
2:H:1933:LEU:O	2:H:1989:LEU:HD21	1.99	0.62
2:H:190:TYR:CD1	2:H:201:ILE:HD13	2.34	0.62
2:H:293:ALA:HA	2:H:469:VAL:HG21	1.80	0.62
2:H:549:ASN:HD22	2:H:551:GLU:H	1.46	0.62
2:J:1442:TYR:O	2:J:1445:THR:HG22	1.98	0.62
2:J:1729:ASN:O	2:J:1757:ILE:HG23	1.99	0.62
2:J:789:TYR:HB3	2:J:790:PRO:HD3	1.81	0.62
2:J:95:HIS:HB2	2:J:96:PRO:HD3	1.81	0.62
2:K:272:PRO:O	2:K:276:LEU:HB2	1.99	0.62
2:K:608:MET:H	2:K:612:THR:HB	1.65	0.62
2:K:670:MET:HA	2:K:673:GLN:HB2	1.81	0.62
2:K:779:GLY:HA3	2:K:811:MET:HE3	1.80	0.62
2:L:190:TYR:HD1	2:L:201:ILE:HD13	1.63	0.62
2:L:781:GLY:HA2	2:L:1071:VAL:HG13	1.81	0.62
1:A:620:LYS:HA	1:A:625:ASN:O	1.98	0.62
1:D:1113:LYS:HG3	1:D:1138:TYR:CE2	2.35	0.62
1:D:1514:ILE:O	1:D:1547:ARG:NH1	2.33	0.62
1:E:1267:LEU:HD11	1:E:1303:LEU:HD12	1.81	0.62
2:G:1099:LEU:HD12	2:G:1103:TYR:HB2	1.80	0.62
2:G:380:ILE:HG13	2:G:380:ILE:O	1.98	0.62
2:G:472:THR:H	2:G:493:MET:HE3	1.64	0.62
2:H:49:LYS:O	2:H:53:LEU:HG	1.99	0.62
2:I:461:PRO:HA	2:I:484:GLU:O	2.00	0.62
2:J:1007:LEU:HD12	2:J:1007:LEU:N	2.12	0.62
2:J:1871:VAL:HB	2:J:2003:VAL:HG22	1.80	0.62
2:J:447:ALA:O	2:J:451:ILE:HG13	1.99	0.62
2:J:743:TRP:HZ2	2:J:757:PHE:HA	1.65	0.62
1:D:1606:VAL:O	1:D:1608:PRO:HD3	2.00	0.62
1:D:433:CYS:O	1:D:437:MET:HG3	1.99	0.62
1:D:766:ALA:HA	1:D:769:ILE:HD12	1.80	0.62
1:A:551:LEU:HD21	1:F:562:SER:HB3	1.80	0.62
1:F:843:VAL:HG13	1:F:900:ASP:HA	1.82	0.62
1:F:978:LYS:HB3	1:F:979:PRO:HD3	1.82	0.62
2:G:1015:HIS:NE2	2:G:1019:LEU:HD11	2.14	0.62
2:H:276:LEU:HD12	2:H:298:ALA:O	2.00	0.62
2:H:699:ILE:H	2:H:699:ILE:HD12	1.64	0.62
2:I:1318:ALA:HA	2:I:1391:VAL:CG2	2.29	0.62
2:I:1874:ASP:OD1	2:I:1878:ARG:HB3	2.00	0.62
2:I:573:VAL:HG22	2:I:804:PRO:HB2	1.81	0.62
2:J:1404:VAL:HG22	2:J:1413:VAL:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1468:ARG:NH1	2:J:1475:LEU:HB2	2.14	0.62
2:J:293:ALA:HA	2:J:469:VAL:HG21	1.81	0.62
2:K:1328:VAL:HA	2:K:1611:TYR:HE1	1.64	0.62
2:K:618:VAL:O	2:K:622:MET:HG3	1.99	0.62
2:L:1318:ALA:HA	2:L:1391:VAL:CG2	2.30	0.62
2:L:846:THR:HG22	2:L:856:THR:N	2.15	0.62
1:A:532:ILE:HG21	1:A:907:PHE:HB2	1.82	0.62
1:A:399:TYR:OH	1:A:692:THR:HG23	1.99	0.62
1:B:1100:VAL:HG21	1:B:1150:ILE:HD12	1.82	0.62
1:C:1317:GLU:HG3	1:F:1250:LEU:HB2	1.81	0.62
1:C:746:PHE:CE1	1:C:800:PRO:HG3	2.35	0.62
1:E:1524:GLY:HA2	1:E:1531:ASP:OD1	2.00	0.62
1:E:11:TYR:O	1:E:15:VAL:HG23	1.99	0.62
2:G:1290:TYR:CD2	2:G:1299:VAL:HB	2.34	0.62
2:G:1468:ARG:NH1	2:G:1475:LEU:HB2	2.14	0.62
2:G:1612:THR:O	2:G:1616:VAL:HG12	1.99	0.62
2:G:855:ILE:HD13	2:G:856:THR:N	2.13	0.62
2:H:967:GLU:HG2	2:H:1000:TYR:CE1	2.34	0.62
2:H:186:LEU:HG	2:H:256:VAL:HG22	1.82	0.62
2:H:854:VAL:HG21	2:H:1070:PRO:CA	2.27	0.62
2:I:1350:ILE:O	2:I:1354:TRP:HB2	1.99	0.62
2:I:1922:VAL:HB	2:I:1925:MET:HB2	1.82	0.62
2:G:1340:LYS:HE3	2:I:376:ARG:HH22	1.65	0.62
2:I:610:PRO:O	2:I:613:VAL:HG12	2.00	0.62
2:I:699:ILE:H	2:I:699:ILE:HD12	1.63	0.62
2:J:49:LYS:O	2:J:53:LEU:HG	1.99	0.62
2:J:796:TRP:CH2	2:J:805:MET:HE1	2.34	0.62
2:K:612:THR:HG22	2:K:612:THR:O	1.98	0.62
2:K:937:ARG:NE	2:K:941:LEU:HD11	2.15	0.62
2:L:1180:VAL:HG12	2:L:1188:GLN:H	1.65	0.62
2:L:743:TRP:HZ2	2:L:757:PHE:HA	1.64	0.62
2:L:855:ILE:HD13	2:L:856:THR:N	2.15	0.62
1:A:1005:TRP:NE1	1:A:1561:LEU:CD2	2.63	0.62
1:B:550:LYS:NZ	1:B:631:LYS:HE2	2.15	0.62
1:C:1581:LEU:HD23	1:C:1617:ILE:HG12	1.82	0.62
1:C:862:GLY:O	1:C:865:LYS:HB2	1.99	0.62
1:C:911:LEU:O	1:C:915:MET:HG3	2.00	0.62
1:D:1156:PHE:CZ	1:D:1316:TYR:HA	2.34	0.62
1:D:1524:GLY:HA2	1:D:1531:ASP:OD1	2.00	0.62
1:D:947:ASP:O	1:D:951:LEU:HG	1.99	0.62
1:E:433:CYS:O	1:E:437:MET:HG3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:620:LYS:HA	1:F:625:ASN:O	2.00	0.62
2:G:1356:ALA:HB3	2:G:1397:THR:HG22	1.81	0.62
2:G:1454:MET:CE	2:G:1550:SER:HA	2.28	0.62
2:G:1351:VAL:HG23	2:G:1584:SER:HA	1.82	0.62
2:G:1637:VAL:CG1	2:G:1679:LEU:HD22	2.30	0.62
2:H:44:GLN:HG3	2:H:101:VAL:HG21	1.81	0.62
2:H:388:ASN:HD22	2:H:388:ASN:C	2.03	0.62
2:H:855:ILE:HD13	2:H:856:THR:N	2.15	0.62
2:I:1189:THR:O	2:I:1191:PRO:HD3	1.99	0.62
2:I:190:TYR:HD1	2:I:201:ILE:HD13	1.65	0.62
2:H:47:GLN:NE2	2:I:23:PRO:HB2	2.14	0.62
2:I:964:ARG:O	2:I:967:GLU:HB2	1.99	0.62
2:J:1232:VAL:HG12	2:J:1246:LEU:HD23	1.80	0.62
2:K:374:GLU:CA	2:K:377:HIS:CD2	2.78	0.62
2:K:365:ILE:HG23	2:K:378:ILE:HG22	1.81	0.62
2:K:549:ASN:HD22	2:K:550:THR:N	1.98	0.62
2:K:779:GLY:O	2:K:780:SER:CB	2.47	0.62
2:L:845:ASN:HB3	2:L:851:THR:OG1	1.99	0.62
1:B:1156:PHE:CZ	1:B:1316:TYR:HA	2.35	0.62
1:C:31:THR:HG23	2:I:2040:ILE:HG21	1.82	0.62
1:D:1081:ILE:HG13	1:D:1159:LEU:O	2.00	0.62
1:F:1702:ARG:HG3	1:F:1702:ARG:NH1	2.10	0.62
1:F:406:ALA:CA	1:F:439:ARG:HH11	2.10	0.62
2:G:1090:ILE:O	2:G:1094:HIS:HD2	1.83	0.62
2:G:1324:PHE:CA	2:G:1583:VAL:HG11	2.30	0.62
2:G:1650:THR:O	2:G:1669:ALA:HA	1.99	0.62
2:G:1722:ALA:CB	2:G:1812:LEU:HD21	2.30	0.62
2:G:827:GLN:NE2	2:G:827:GLN:H	1.97	0.62
2:G:902:ILE:O	2:G:906:LEU:HB2	1.99	0.62
2:H:1844:LEU:HB3	2:H:1850:VAL:HG21	1.80	0.62
2:I:1048:TRP:HE1	2:I:1049:GLN:HE21	1.48	0.62
2:I:1579:ASN:O	2:I:1583:VAL:HG23	1.99	0.62
2:J:854:VAL:HG21	2:J:1070:PRO:CA	2.28	0.62
2:J:934:VAL:O	2:J:938:MET:HG3	2.00	0.62
2:K:1318:ALA:HA	2:K:1391:VAL:HG21	1.81	0.62
2:K:1393:ASP:HB3	2:K:1395:LEU:HD21	1.81	0.62
2:K:549:ASN:HD22	2:K:551:GLU:H	1.46	0.62
2:K:549:ASN:ND2	2:K:551:GLU:H	1.97	0.62
1:F:1670:HIS:CE1	2:L:1009:ASN:ND2	2.68	0.62
2:L:1048:TRP:HE1	2:L:1049:GLN:HE21	1.47	0.62
2:L:1436:ARG:NH2	2:L:1602:LEU:HD11	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1081:ILE:HA	1:A:1163:GLN:NE2	2.14	0.61
1:B:1090:ASP:OD1	1:B:1092:ASN:HB2	2.00	0.61
1:B:1107:GLU:HG3	1:B:1108:PRO:CD	2.30	0.61
1:B:911:LEU:O	1:B:915:MET:HG3	1.99	0.61
1:D:1005:TRP:CD1	1:D:1561:LEU:HD22	2.35	0.61
1:E:843:VAL:HG13	1:E:900:ASP:HA	1.81	0.61
2:H:833:VAL:HG13	2:H:1077:LYS:HA	1.82	0.61
2:I:1099:LEU:HD21	2:I:1107:GLU:HG2	1.80	0.61
2:I:1375:HIS:HE1	2:I:1610:MET:SD	2.22	0.61
2:I:1871:VAL:HB	2:I:2003:VAL:HG22	1.79	0.61
2:I:49:LYS:O	2:I:53:LEU:HG	2.00	0.61
2:J:1650:THR:O	2:J:1669:ALA:HA	2.00	0.61
2:J:1700:GLN:HA	2:J:1704:MET:CE	2.30	0.61
2:J:1897:GLU:HG2	2:J:1901:GLN:HE21	1.65	0.61
2:J:917:ARG:HD2	2:J:917:ARG:N	2.16	0.61
2:J:937:ARG:NE	2:J:941:LEU:HD11	2.14	0.61
2:K:1180:VAL:HG12	2:K:1188:GLN:H	1.64	0.61
2:K:1871:VAL:HB	2:K:2003:VAL:HG22	1.81	0.61
2:L:1290:TYR:CD2	2:L:1299:VAL:HB	2.35	0.61
2:L:22:ARG:O	2:L:37:VAL:HG23	1.99	0.61
2:L:388:ASN:C	2:L:388:ASN:HD22	2.02	0.61
1:A:30:GLU:HB2	2:G:2045:ALA:CB	2.30	0.61
1:A:696:GLN:HG3	1:A:697:GLY:N	2.14	0.61
1:B:746:PHE:CE1	1:B:800:PRO:HG3	2.34	0.61
1:B:978:LYS:HB3	1:B:979:PRO:HD3	1.83	0.61
1:C:843:VAL:HG13	1:C:900:ASP:HA	1.82	0.61
1:D:68:TYR:HD1	2:L:371:HIS:CD2	2.17	0.61
1:E:1234:GLY:HA2	1:E:1238:ASP:HB2	1.80	0.61
1:F:883:LEU:HA	1:F:888:ILE:HD12	1.81	0.61
2:G:110:GLU:HA	2:G:114:MET:HB2	1.80	0.61
2:G:190:TYR:HD1	2:G:201:ILE:HD13	1.64	0.61
2:G:2036:ILE:CG2	2:G:2037:GLY:N	2.63	0.61
2:H:376:ARG:HH22	2:I:1340:LYS:CE	2.12	0.61
2:I:193:TYR:CD1	2:I:263:ILE:HD13	2.36	0.61
2:I:832:ILE:HA	2:I:868:LEU:HD11	1.82	0.61
2:J:141:TYR:OH	2:J:267:THR:HG23	2.01	0.61
2:L:1455:GLN:HB2	2:L:1551:ILE:CD1	2.30	0.61
2:L:1574:PRO:HD3	2:L:1611:TYR:CE2	2.35	0.61
2:L:272:PRO:O	2:L:276:LEU:HB2	2.00	0.61
1:A:557:ARG:CG	1:A:557:ARG:NH1	2.55	0.61
1:B:1448:ALA:HA	1:B:1451:LYS:CE	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:926:SER:O	1:C:930:GLN:HG2	1.99	0.61
1:D:696:GLN:HG3	1:D:697:GLY:N	2.15	0.61
2:G:931:TYR:O	2:G:935:VAL:HG12	2.00	0.61
2:H:596:ARG:HH22	2:H:1113:ILE:CD1	2.12	0.61
2:H:1845:VAL:HG21	2:H:1856:LEU:HD22	1.81	0.61
2:H:1922:VAL:HB	2:H:1925:MET:HB2	1.83	0.61
2:H:857:VAL:CG1	2:H:876:TRP:NE1	2.62	0.61
2:I:1370:LEU:HD12	2:I:1373:LEU:HD13	1.81	0.61
2:I:1538:ASN:HB3	2:I:1541:ILE:HG22	1.82	0.61
2:J:501:TRP:CZ2	2:J:528:THR:HG21	2.35	0.61
2:K:1305:LEU:HD12	2:K:1305:LEU:H	1.65	0.61
2:K:1700:GLN:HA	2:K:1704:MET:CE	2.31	0.61
2:K:2036:ILE:CG2	2:K:2037:GLY:N	2.63	0.61
2:K:752:HIS:CE1	2:K:847:TYR:CE2	2.76	0.61
2:K:876:TRP:C	2:K:876:TRP:CD1	2.72	0.61
2:K:902:ILE:O	2:K:906:LEU:HB2	1.99	0.61
2:L:1603:PRO:HG2	2:L:1642:MET:HE3	1.82	0.61
1:A:1581:LEU:HD23	1:A:1617:ILE:HG12	1.82	0.61
1:B:1483:ALA:HA	1:B:1486:GLN:HE21	1.65	0.61
1:B:1697:LEU:HD21	1:D:1401:LEU:HD22	1.83	0.61
1:C:1448:ALA:HA	1:C:1451:LYS:CE	2.29	0.61
1:D:430:VAL:O	1:D:434:ILE:HG13	2.00	0.61
1:E:557:ARG:NH1	1:E:557:ARG:HG3	2.02	0.61
1:F:1700:GLN:O	1:F:1702:ARG:HG3	2.01	0.61
1:F:926:SER:O	1:F:930:GLN:HG2	2.00	0.61
2:G:1400:GLN:HG3	2:G:1448:ARG:HH12	1.65	0.61
2:G:1897:GLU:HG2	2:G:1901:GLN:HE21	1.64	0.61
2:G:608:MET:H	2:G:612:THR:HB	1.65	0.61
2:H:1455:GLN:HB2	2:H:1551:ILE:CD1	2.30	0.61
2:H:1846:ALA:HB3	2:H:1847:LEU:HD12	1.81	0.61
2:I:174:GLY:H	2:I:517:GLY:HA3	1.65	0.61
2:I:1966:ARG:O	2:I:1970:VAL:HG23	2.00	0.61
2:I:447:ALA:O	2:I:451:ILE:HG13	2.01	0.61
2:I:845:ASN:HB3	2:I:851:THR:OG1	2.00	0.61
2:J:867:LYS:HD3	2:J:1065:CYS:SG	2.40	0.61
2:J:596:ARG:HH22	2:J:1113:ILE:CD1	2.13	0.61
2:J:24:LEU:HD12	2:J:37:VAL:HG21	1.82	0.61
2:J:289:ILE:HG12	2:J:493:MET:HE1	1.82	0.61
2:J:855:ILE:HD13	2:J:856:THR:N	2.14	0.61
2:J:87:VAL:HG22	2:J:98:ASN:HB3	1.83	0.61
2:J:926:LEU:O	2:J:1008:ILE:HD11	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:832:ILE:HA	2:K:868:LEU:HD11	1.81	0.61
2:K:857:VAL:HG13	2:K:876:TRP:HE1	1.65	0.61
2:L:110:GLU:HA	2:L:114:MET:HB2	1.82	0.61
2:L:1200:ARG:HD3	2:L:1200:ARG:N	2.07	0.61
2:L:1305:LEU:HD11	2:L:1365:LYS:HD2	1.82	0.61
2:L:49:LYS:O	2:L:53:LEU:HG	2.00	0.61
2:L:95:HIS:HB2	2:L:96:PRO:HD3	1.82	0.61
1:A:1100:VAL:HG21	1:A:1150:ILE:HD12	1.82	0.61
1:A:427:ARG:HD2	1:A:490:VAL:HG12	1.81	0.61
1:A:767:HIS:HE1	1:F:767:HIS:CE1	2.18	0.61
1:A:843:VAL:HG13	1:A:900:ASP:HA	1.83	0.61
1:E:1451:LYS:HG2	1:E:1454:ARG:NH2	2.14	0.61
1:F:444:LEU:HD22	1:F:448:MET:HG2	1.80	0.61
1:A:562:SER:HB3	1:F:555:GLN:OE1	1.99	0.61
2:G:1436:ARG:HH22	2:G:1602:LEU:HD13	1.65	0.61
2:G:549:ASN:ND2	2:G:551:GLU:H	1.97	0.61
2:I:1764:MET:HG3	2:I:1781:PHE:CE1	2.36	0.61
2:I:612:THR:O	2:I:612:THR:HG22	2.00	0.61
2:J:1048:TRP:HE1	2:J:1049:GLN:HE21	1.46	0.61
2:J:190:TYR:HD1	2:J:201:ILE:HD13	1.64	0.61
2:J:605:VAL:HG22	2:J:816:MET:HG3	1.82	0.61
2:J:699:ILE:H	2:J:699:ILE:HD12	1.65	0.61
2:J:756:ASP:HA	2:J:843:TRP:HH2	1.65	0.61
2:K:1178:THR:HG22	2:K:1180:VAL:H	1.64	0.61
2:K:348:THR:HB	2:K:349:PRO:CD	2.31	0.61
2:K:747:ARG:NH2	2:K:757:PHE:CE1	2.69	0.61
1:A:486:VAL:CG1	1:A:647:GLY:HA3	2.30	0.61
1:B:655:ALA:HB3	1:B:680:VAL:HG12	1.83	0.61
1:C:339:GLN:O	1:C:343:ILE:HG13	2.01	0.61
1:C:533:SER:HA	1:C:907:PHE:CE1	2.35	0.61
1:D:1323:ALA:HB1	1:D:1351:PHE:HE2	1.65	0.61
1:F:13:LEU:HD11	2:L:2058:VAL:HG21	1.83	0.61
2:G:44:GLN:HG3	2:G:101:VAL:HG21	1.81	0.61
2:G:580:LEU:HD11	2:G:1098:LEU:HB3	1.82	0.61
2:G:661:ASN:HD21	4:G:2101:FMN:HN3	1.48	0.61
2:G:49:LYS:O	2:G:53:LEU:HG	2.01	0.61
2:H:1092:ASN:HA	2:H:1095:ILE:HG12	1.81	0.61
2:H:2005:PHE:HB3	2:H:2010:LEU:HD11	1.82	0.61
2:H:942:MET:HE2	2:H:955:LEU:HD13	1.82	0.61
2:H:95:HIS:HB2	2:H:96:PRO:HD3	1.83	0.61
2:I:1232:VAL:CG1	2:I:1246:LEU:HD23	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:942:MET:CE	2:I:955:LEU:HB3	2.30	0.61
2:J:1048:TRP:CD2	2:J:1049:GLN:HG2	2.35	0.61
2:J:1046:SER:O	2:J:1049:GLN:HG3	2.00	0.61
2:J:501:TRP:HE1	2:J:528:THR:CG2	2.11	0.61
2:J:962:PHE:O	2:J:966:VAL:HG23	2.01	0.61
2:K:1457:HIS:ND1	2:K:1487:THR:HG22	2.16	0.61
2:K:2036:ILE:HG22	2:K:2037:GLY:H	1.64	0.61
2:K:741:LEU:HG	2:K:741:LEU:O	2.00	0.61
2:K:794:GLY:O	2:K:804:PRO:HA	2.01	0.61
2:K:87:VAL:HG22	2:K:98:ASN:HB3	1.81	0.61
2:L:209:GLN:O	2:L:213:ARG:HG3	2.00	0.61
2:L:57:PRO:HG2	2:L:68:GLU:HG3	1.83	0.61
2:L:832:ILE:HA	2:L:868:LEU:HD11	1.82	0.61
2:L:868:LEU:O	2:L:870:THR:HG23	2.01	0.61
1:A:1470:ARG:O	1:A:1474:ILE:HG13	1.99	0.61
1:A:853:MET:HG2	1:A:856:ASN:HD22	1.65	0.61
1:B:405:TRP:CZ3	1:B:1609:SER:HB3	2.35	0.61
1:C:1218:VAL:HG13	1:C:1301:VAL:HG13	1.81	0.61
1:C:947:ASP:O	1:C:951:LEU:HG	2.00	0.61
1:D:1363:MET:HE3	1:D:1368:ALA:HB2	1.81	0.61
1:D:911:LEU:O	1:D:915:MET:HG3	2.00	0.61
1:E:620:LYS:HA	1:E:625:ASN:O	2.00	0.61
1:F:1490:GLY:O	1:F:1509:THR:HB	2.01	0.61
1:F:947:ASP:O	1:F:951:LEU:HG	1.99	0.61
2:G:1873:ARG:NH1	2:G:2002:ASP:HB3	2.16	0.61
2:G:618:VAL:O	2:G:622:MET:HG3	2.01	0.61
2:H:686:PRO:HB3	2:H:1187:PHE:CE1	2.35	0.61
2:H:1721:ARG:HH21	2:H:1853:ILE:HD12	1.65	0.61
2:H:305:ALA:O	2:H:309:LYS:HD3	2.01	0.61
2:I:1180:VAL:HG12	2:I:1188:GLN:H	1.65	0.61
2:I:1650:THR:O	2:I:1669:ALA:HA	2.01	0.61
2:I:1851:MET:HE1	2:I:1855:SER:HB3	1.83	0.61
2:J:1674:THR:HB	2:J:1676:GLU:HG3	1.83	0.61
2:J:351:LEU:HD22	2:J:352:SER:N	2.15	0.61
2:K:167:VAL:CG2	2:K:169:ILE:HG13	2.29	0.61
2:L:117:ASN:HA	2:L:561:ARG:HG3	1.82	0.61
2:L:532:LYS:HD3	2:L:537:VAL:HG21	1.82	0.61
1:A:1100:VAL:HG21	1:A:1150:ILE:CD1	2.30	0.61
1:B:617:LEU:HD23	1:B:617:LEU:N	2.15	0.61
1:E:405:TRP:CZ3	1:E:1609:SER:HB3	2.36	0.61
1:E:1640:LYS:HG3	1:E:1641:TYR:HD1	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1702:ARG:HG3	1:E:1702:ARG:NH1	2.09	0.61
1:F:1090:ASP:OD1	1:F:1092:ASN:HB2	2.00	0.61
1:F:1363:MET:HE3	1:F:1368:ALA:HB2	1.82	0.61
1:F:1451:LYS:HG2	1:F:1454:ARG:NH2	2.16	0.61
1:F:669:VAL:O	1:F:673:LEU:HD12	2.01	0.61
2:G:752:HIS:NE2	2:G:856:THR:CG2	2.64	0.61
2:H:1232:VAL:CG1	2:H:1246:LEU:HD23	2.30	0.61
2:I:1092:ASN:HA	2:I:1095:ILE:HG12	1.83	0.61
2:I:388:ASN:HD22	2:I:388:ASN:C	2.03	0.61
2:I:608:MET:H	2:I:612:THR:HB	1.66	0.61
2:I:706:ILE:HG22	2:I:707:GLN:HG2	1.83	0.61
2:I:902:ILE:O	2:I:906:LEU:HB2	2.01	0.61
2:J:580:LEU:HD12	2:J:1103:TYR:CE2	2.35	0.61
2:K:186:LEU:HG	2:K:256:VAL:HG22	1.82	0.61
2:K:462:ALA:HB2	2:K:481:LEU:HB2	1.82	0.61
2:L:1468:ARG:NH1	2:L:1475:LEU:HB2	2.14	0.61
1:B:1094:LYS:HB3	1:B:1154:LEU:HB2	1.83	0.61
1:B:22:PHE:HE1	2:H:1867:MET:HG3	1.66	0.61
1:C:1068:TYR:O	1:C:1072:ILE:HG13	2.01	0.61
1:C:905:LEU:HD22	1:C:911:LEU:HD21	1.83	0.61
1:F:1100:VAL:HG21	1:F:1150:ILE:HD12	1.83	0.61
1:F:427:ARG:CG	1:F:427:ARG:NH1	2.53	0.61
2:G:1309:PHE:CE2	2:G:1360:PRO:HA	2.36	0.61
2:G:276:LEU:HD12	2:G:298:ALA:O	2.00	0.61
2:G:791:TYR:HA	2:G:796:TRP:HD1	1.64	0.61
2:H:1807:GLN:HB2	2:H:1808:PRO:HD3	1.80	0.61
2:H:270:ARG:HG3	2:H:274:GLU:OE1	1.99	0.61
2:I:250:PHE:HB2	2:I:251:PRO:HD3	1.81	0.61
2:I:365:ILE:HG23	2:I:378:ILE:HG22	1.83	0.61
2:I:382:LEU:HB3	2:I:499:VAL:HB	1.82	0.61
2:I:789:TYR:HB3	2:I:790:PRO:HD3	1.82	0.61
2:J:653:PRO:O	2:J:656:ARG:HB2	2.01	0.61
2:J:832:ILE:HA	2:J:868:LEU:HD11	1.83	0.61
2:K:1616:VAL:HG11	2:K:1679:LEU:CD1	2.27	0.61
2:K:2005:PHE:HB3	2:K:2010:LEU:HD11	1.83	0.61
2:L:1669:ALA:HB3	2:L:1679:LEU:HB2	1.82	0.61
2:L:467:ILE:HG23	2:L:468:PRO:HD2	1.83	0.61
2:L:942:MET:HE1	2:L:955:LEU:HB3	1.82	0.61
1:A:1524:GLY:HA2	1:A:1531:ASP:OD1	2.01	0.61
1:B:427:ARG:HH11	1:B:492:ILE:HG12	1.65	0.61
1:C:575:ARG:O	1:C:579:MET:HG3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1148:LEU:HD21	1:D:1150:ILE:HG12	1.83	0.61
1:D:1218:VAL:HG13	1:D:1301:VAL:HG13	1.83	0.61
1:B:1431:GLN:OE1	1:D:1431:GLN:HG2	2.01	0.61
2:G:1180:VAL:HG12	2:G:1188:GLN:H	1.66	0.61
1:B:1670:HIS:CE1	2:H:1009:ASN:ND2	2.69	0.61
2:H:1046:SER:O	2:H:1049:GLN:HG3	2.01	0.61
2:H:22:ARG:O	2:H:37:VAL:HG23	2.01	0.61
2:H:410:ALA:HB1	2:H:414:LEU:HD12	1.82	0.61
2:H:875:PHE:CD1	2:H:905:LYS:HD3	2.35	0.61
2:I:1405:ILE:HA	2:I:1445:THR:OG1	1.99	0.61
2:I:2021:LEU:O	2:I:2025:ILE:HG13	2.01	0.61
2:I:57:PRO:HG2	2:I:68:GLU:HG3	1.83	0.61
2:J:1579:ASN:O	2:J:1583:VAL:HG23	1.99	0.61
2:J:1637:VAL:CG1	2:J:1679:LEU:HD22	2.31	0.61
2:J:162:ALA:HA	2:J:167:VAL:HG22	1.81	0.61
2:J:290:VAL:HG22	2:J:490:LEU:HD13	1.81	0.61
2:K:529:ASN:HD22	2:K:552:VAL:CG2	2.14	0.61
1:A:570:TYR:HD2	1:A:574:ILE:HD11	1.65	0.60
1:B:1113:LYS:HG3	1:B:1138:TYR:CE2	2.36	0.60
1:D:1448:ALA:HA	1:D:1451:LYS:CE	2.29	0.60
1:D:620:LYS:HA	1:D:625:ASN:O	2.00	0.60
1:E:486:VAL:CG1	1:E:647:GLY:HA3	2.29	0.60
2:G:1115:TYR:HB3	2:G:1267:PRO:HB3	1.83	0.60
2:G:1455:GLN:HB2	2:G:1551:ILE:CD1	2.31	0.60
2:G:1700:GLN:HA	2:G:1704:MET:CE	2.31	0.60
2:G:750:GLY:O	2:G:865:ILE:HA	2.01	0.60
2:H:35:PHE:CE1	2:H:108:GLU:HG3	2.36	0.60
2:H:1318:ALA:HA	2:H:1391:VAL:CG2	2.31	0.60
2:I:1370:LEU:HA	2:I:1435:TYR:HE2	1.65	0.60
2:I:2036:ILE:HG22	2:I:2037:GLY:H	1.65	0.60
2:J:298:ALA:CB	2:J:304:PHE:HA	2.31	0.60
2:J:410:ALA:HB1	2:J:414:LEU:HD12	1.83	0.60
2:L:1189:THR:O	2:L:1191:PRO:HD3	2.01	0.60
2:L:119:VAL:HG21	2:L:140:TYR:CD2	2.36	0.60
2:L:796:TRP:CH2	2:L:805:MET:HE1	2.35	0.60
2:L:94:ALA:HB1	2:L:97:THR:OG1	2.01	0.60
1:A:613:PRO:C	1:A:615:LEU:H	2.04	0.60
1:B:1164:ILE:HD12	1:B:1355:GLN:HG3	1.83	0.60
1:B:1451:LYS:HG2	1:B:1454:ARG:NH2	2.16	0.60
1:B:683:THR:HB	1:B:714:PHE:HB3	1.83	0.60
1:B:382:ILE:HD12	1:B:761:SER:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1443:LEU:HD11	1:F:1470:ARG:HD2	1.83	0.60
1:A:612:ILE:HD12	1:F:579:MET:HE3	1.82	0.60
2:H:685:VAL:HG23	2:H:1186:ARG:HH12	1.66	0.60
2:H:1603:PRO:HG2	2:H:1642:MET:HE3	1.83	0.60
2:H:743:TRP:HZ2	2:H:757:PHE:HA	1.66	0.60
2:I:290:VAL:HG22	2:I:490:LEU:HD13	1.83	0.60
2:I:670:MET:HB2	2:I:674:ILE:HD12	1.83	0.60
2:J:833:VAL:HG13	2:J:1077:LYS:HA	1.82	0.60
2:J:1538:ASN:HB3	2:J:1541:ILE:HG22	1.84	0.60
2:J:305:ALA:O	2:J:309:LYS:HD3	2.01	0.60
2:J:376:ARG:CB	2:J:394:PRO:HG2	2.30	0.60
2:J:781:GLY:HA2	2:J:1071:VAL:HG13	1.82	0.60
2:K:119:VAL:HG21	2:K:140:TYR:CD2	2.37	0.60
2:K:120:HIS:HD2	2:K:137:VAL:HG21	1.66	0.60
2:L:158:LEU:HA	2:L:566:VAL:CG2	2.26	0.60
2:L:162:ALA:HA	2:L:167:VAL:HG22	1.82	0.60
1:A:1330:GLU:OE2	1:A:1342:ARG:NH2	2.35	0.60
1:A:1702:ARG:NH1	1:A:1702:ARG:CG	2.45	0.60
1:C:1446:GLU:O	1:C:1450:ILE:HG13	2.01	0.60
1:C:552:ILE:HG12	1:D:552:ILE:HD11	1.83	0.60
1:E:983:GLN:HB3	1:E:1418:ILE:HG21	1.81	0.60
1:F:655:ALA:HB3	1:F:680:VAL:HG12	1.81	0.60
2:G:285:HIS:HD2	2:G:501:TRP:CE3	2.19	0.60
2:H:1048:TRP:CD2	2:H:1049:GLN:HG2	2.36	0.60
2:H:1220:ARG:HA	2:H:1229:VAL:O	2.00	0.60
2:H:1612:THR:O	2:H:1616:VAL:HG12	2.01	0.60
2:H:209:GLN:O	2:H:213:ARG:HG3	2.01	0.60
2:H:376:ARG:CB	2:H:394:PRO:HG2	2.31	0.60
2:H:447:ALA:O	2:H:451:ILE:HG13	2.01	0.60
2:H:902:ILE:O	2:H:906:LEU:HB2	2.02	0.60
2:I:1067:LEU:HB2	4:I:2101:FMN:C7M	2.31	0.60
2:I:1515:LEU:O	2:I:1523:ILE:HD12	2.01	0.60
2:I:152:LYS:HB2	2:I:154:TYR:CE1	2.36	0.60
2:I:1701:GLU:H	2:I:1704:MET:CE	2.15	0.60
2:I:1700:GLN:HA	2:I:1704:MET:CE	2.30	0.60
2:I:1804:GLN:HB3	2:I:1861:PHE:CE1	2.36	0.60
2:I:197:VAL:HG12	2:I:201:ILE:HG13	1.82	0.60
2:I:580:LEU:HD11	2:I:1098:LEU:HB3	1.84	0.60
1:D:41:THR:HA	2:J:1689:VAL:HB	1.83	0.60
2:J:1991:ARG:HG3	2:J:1996:ILE:HG12	1.83	0.60
2:J:2005:PHE:HB3	2:J:2010:LEU:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:918:ASN:HB3	2:J:924:VAL:CG2	2.30	0.60
2:J:94:ALA:HB1	2:J:97:THR:OG1	2.02	0.60
2:K:1094:HIS:O	2:K:1098:LEU:HB2	2.01	0.60
2:L:1445:THR:HG23	2:L:1498:PHE:HB2	1.83	0.60
2:L:170:TYR:CZ	2:L:507:PHE:HB3	2.35	0.60
2:L:174:GLY:H	2:L:517:GLY:HA3	1.65	0.60
2:L:351:LEU:HD22	2:L:352:SER:N	2.16	0.60
2:L:396:ILE:HD12	2:L:396:ILE:H	1.66	0.60
2:L:573:VAL:HG22	2:L:804:PRO:HB2	1.83	0.60
2:L:875:PHE:CD1	2:L:905:LYS:HD3	2.36	0.60
2:L:930:THR:CG2	2:L:933:GLU:HG3	2.32	0.60
1:B:907:PHE:O	1:B:909:PRO:HD3	2.02	0.60
1:E:339:GLN:O	1:E:343:ILE:HG13	2.01	0.60
1:F:1260:ALA:O	1:F:1264:MET:HG3	2.00	0.60
1:F:427:ARG:NH1	1:F:492:ILE:HG12	2.17	0.60
2:G:2054:TYR:HA	2:G:2057:GLU:OE1	2.02	0.60
2:H:1897:GLU:HG2	2:H:1901:GLN:HE21	1.66	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:CD2	2.36	0.60
2:I:781:GLY:HA2	2:I:1071:VAL:HG13	1.82	0.60
2:J:1481:ILE:HD12	2:J:1515:LEU:HD23	1.83	0.60
2:K:170:TYR:CZ	2:K:507:PHE:HB3	2.36	0.60
1:D:1095:GLN:O	1:D:1096:LEU:HD23	2.00	0.60
1:D:1267:LEU:HD11	1:D:1303:LEU:HD12	1.82	0.60
1:E:1100:VAL:HG21	1:E:1150:ILE:CD1	2.31	0.60
1:E:1421:ARG:HD2	1:E:1489:PHE:O	2.01	0.60
1:E:570:TYR:HD2	1:E:574:ILE:HD11	1.66	0.60
1:F:11:TYR:O	1:F:15:VAL:HG23	2.02	0.60
1:F:1480:ARG:O	1:F:1484:GLU:HG3	2.01	0.60
2:G:186:LEU:CD2	2:G:256:VAL:HG22	2.32	0.60
2:G:1922:VAL:HB	2:G:1925:MET:HB2	1.84	0.60
2:G:467:ILE:HG23	2:G:468:PRO:HD2	1.83	0.60
2:H:285:HIS:HD2	2:H:501:TRP:CE3	2.20	0.60
2:I:285:HIS:HD2	2:I:501:TRP:CE3	2.19	0.60
2:J:1350:ILE:O	2:J:1354:TRP:HB2	2.02	0.60
2:J:1564:SER:HB2	2:J:1653:LEU:H	1.65	0.60
2:K:261:TYR:CD1	2:K:295:ILE:HG12	2.36	0.60
2:K:670:MET:HB2	2:K:674:ILE:HD12	1.83	0.60
2:K:882:LYS:HB3	2:K:898:ARG:HH12	1.65	0.60
2:L:1094:HIS:O	2:L:1098:LEU:HB2	2.02	0.60
2:L:1593:SER:OG	2:L:1596:PHE:HB2	2.01	0.60
2:L:549:ASN:ND2	2:L:551:GLU:H	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:987:MET:O	1:B:1490:GLY:HA3	2.00	0.60
1:E:557:ARG:NH1	1:E:557:ARG:CG	2.55	0.60
1:E:636:TYR:CZ	1:E:640:LEU:HD22	2.36	0.60
2:G:209:GLN:O	2:G:213:ARG:HG3	2.02	0.60
2:G:348:THR:HB	2:G:349:PRO:CD	2.31	0.60
2:G:918:ASN:HB3	2:G:924:VAL:CG2	2.31	0.60
2:H:1171:TRP:CZ3	2:H:1236:LEU:HB2	2.37	0.60
2:H:501:TRP:CZ2	2:H:528:THR:HG21	2.37	0.60
2:I:1564:SER:HB2	2:I:1653:LEU:H	1.67	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:HD2	1.66	0.60
2:J:930:THR:HA	2:J:1007:LEU:HA	1.83	0.60
2:J:209:GLN:O	2:J:213:ARG:HG3	2.01	0.60
2:J:193:TYR:CD1	2:J:263:ILE:HD13	2.37	0.60
2:J:917:ARG:HG2	2:J:937:ARG:NH1	2.16	0.60
2:K:1061:VAL:CG1	2:K:1066:ILE:HD11	2.31	0.60
2:K:1266:HIS:NE2	2:K:1275:ARG:HD2	2.17	0.60
2:K:1374:VAL:CG2	2:K:1436:ARG:HE	2.15	0.60
2:K:174:GLY:H	2:K:517:GLY:HA3	1.67	0.60
1:E:22:PHE:HE2	2:K:2017:PHE:CG	2.20	0.60
2:L:1092:ASN:HA	2:L:1095:ILE:HG12	1.82	0.60
2:L:1637:VAL:HG11	2:L:1679:LEU:CD1	2.28	0.60
2:L:2005:PHE:HB3	2:L:2010:LEU:HD11	1.83	0.60
1:A:633:THR:HG22	1:A:637:LEU:HD12	1.83	0.60
1:C:1113:LYS:HG3	1:C:1138:TYR:CE2	2.35	0.60
1:C:1323:ALA:HB1	1:C:1351:PHE:HE2	1.67	0.60
1:C:1425:LEU:HD21	1:C:1429:ARG:NH2	2.16	0.60
1:D:1490:GLY:O	1:D:1509:THR:HB	2.02	0.60
1:D:524:LYS:O	1:D:528:GLU:HG3	2.01	0.60
1:E:673:LEU:O	1:E:678:ALA:HB3	2.00	0.60
1:F:612:ILE:HG23	1:F:628:TYR:CD2	2.37	0.60
1:F:716:GLN:HB3	1:F:769:ILE:HG23	1.83	0.60
1:F:853:MET:HG2	1:F:856:ASN:HD22	1.65	0.60
2:G:1171:TRP:CZ3	2:G:1236:LEU:HB2	2.37	0.60
2:G:1370:LEU:HA	2:G:1435:TYR:HE2	1.66	0.60
2:G:170:TYR:CE2	2:G:507:PHE:HB3	2.37	0.60
2:G:832:ILE:HA	2:G:868:LEU:HD11	1.84	0.60
2:H:57:PRO:HG2	2:H:68:GLU:HG3	1.83	0.60
2:H:846:THR:HG22	2:H:856:THR:N	2.17	0.60
2:H:917:ARG:HD2	2:H:917:ARG:N	2.16	0.60
2:I:685:VAL:HG23	2:I:1186:ARG:HH12	1.67	0.60
2:I:1593:SER:OG	2:I:1596:PHE:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1721:ARG:HH21	2:I:1853:ILE:HD12	1.66	0.60
2:I:396:ILE:H	2:I:396:ILE:HD12	1.66	0.60
2:I:855:ILE:HD13	2:I:856:THR:N	2.17	0.60
2:J:1090:ILE:O	2:J:1094:HIS:CD2	2.55	0.60
2:J:1189:THR:O	2:J:1191:PRO:HD3	2.02	0.60
2:J:1515:LEU:O	2:J:1523:ILE:HD12	2.01	0.60
2:J:174:GLY:H	2:J:517:GLY:HA3	1.66	0.60
2:J:1944:ASN:HA	2:J:1993:PHE:HD2	1.67	0.60
2:J:914:TRP:HE1	2:J:916:GLY:HA3	1.64	0.60
2:K:1207:THR:O	2:K:1215:THR:HA	2.01	0.60
1:E:935:GLU:HG3	2:K:1466:VAL:HG11	1.84	0.60
2:K:380:ILE:O	2:K:380:ILE:HG13	2.02	0.60
2:L:102:LEU:O	2:L:106:LEU:HG	2.02	0.60
2:L:1515:LEU:O	2:L:1523:ILE:HD12	2.02	0.60
2:L:24:LEU:HD12	2:L:37:VAL:HG21	1.82	0.60
2:L:440:HIS:HD2	2:L:497:ASP:O	1.84	0.60
1:A:1113:LYS:HG3	1:A:1138:TYR:CE2	2.37	0.60
1:C:1005:TRP:CD1	1:C:1561:LEU:HD22	2.37	0.60
1:C:502:ALA:HA	1:C:929:ARG:HD3	1.83	0.60
1:D:1032:MET:HE2	1:D:1165:PRO:HB3	1.84	0.60
1:D:1363:MET:HE1	1:D:1373:VAL:CG2	2.32	0.60
1:D:1480:ARG:O	1:D:1484:GLU:HG3	2.01	0.60
1:E:1120:LYS:HD3	1:E:1129:ILE:HG12	1.83	0.60
2:G:1403:ALA:HB2	2:G:1447:GLN:HG3	1.82	0.60
2:G:290:VAL:HG22	2:G:490:LEU:HD13	1.83	0.60
2:G:930:THR:HA	2:G:1007:LEU:HA	1.83	0.60
2:H:788:THR:HG22	2:H:1094:HIS:CE1	2.37	0.60
2:H:549:ASN:ND2	2:H:551:GLU:H	1.98	0.60
2:H:778:ALA:HB2	2:H:807:PHE:CD2	2.37	0.60
2:I:35:PHE:CE1	2:I:108:GLU:HG3	2.37	0.60
2:I:1421:ARG:O	2:I:1421:ARG:HG2	2.02	0.60
2:J:197:VAL:HG12	2:J:201:ILE:HG13	1.84	0.60
1:D:22:PHE:HE2	2:J:2017:PHE:CG	2.20	0.60
2:J:272:PRO:O	2:J:276:LEU:HB2	2.01	0.60
2:J:846:THR:HG22	2:J:856:THR:N	2.16	0.60
2:K:1232:VAL:CG1	2:K:1246:LEU:HD23	2.32	0.60
2:K:1918:VAL:HG13	2:K:2006:HIS:HB2	1.84	0.60
2:K:410:ALA:HB1	2:K:414:LEU:HD12	1.83	0.60
2:K:95:HIS:HB2	2:K:96:PRO:HD3	1.84	0.60
2:L:1317:ASN:HB3	2:L:1320:ALA:HB3	1.84	0.60
2:L:1404:VAL:HG22	2:L:1413:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1846:ALA:HB3	2:L:1847:LEU:HD12	1.84	0.60
2:L:1873:ARG:NH1	2:L:2002:ASP:HB3	2.17	0.60
2:L:172:ILE:HG22	2:L:514:VAL:O	2.02	0.60
2:L:833:VAL:HG13	2:L:1077:LYS:HA	1.84	0.60
1:A:673:LEU:O	1:A:678:ALA:HB3	2.02	0.60
1:B:1224:SER:HB2	1:B:1307:PHE:O	2.01	0.60
1:B:11:TYR:O	1:B:15:VAL:HG23	2.02	0.60
1:C:1470:ARG:O	1:C:1474:ILE:HG13	2.01	0.60
1:C:399:TYR:OH	1:C:692:THR:HG23	2.01	0.60
1:D:40:ARG:NH2	1:D:72:THR:HG22	2.17	0.60
2:G:298:ALA:CB	2:G:304:PHE:HA	2.32	0.60
2:G:35:PHE:CE1	2:G:108:GLU:HG3	2.37	0.60
2:G:655:GLY:HA3	2:G:1272:ALA:CB	2.32	0.60
2:H:174:GLY:H	2:H:517:GLY:HA3	1.67	0.60
2:H:272:PRO:O	2:H:276:LEU:HB2	2.01	0.60
2:H:663:ILE:HG21	3:H:2102:NAP:H1D	1.82	0.60
2:H:750:GLY:O	2:H:865:ILE:HA	2.00	0.60
2:I:580:LEU:HD12	2:I:1103:TYR:CE2	2.36	0.60
2:I:1722:ALA:CB	2:I:1812:LEU:HD21	2.32	0.60
2:I:380:ILE:HG13	2:I:380:ILE:O	2.02	0.60
2:J:1795:SER:HB3	2:J:1799:LEU:HD12	1.81	0.60
2:J:623:ASN:OD1	2:J:653:PRO:HD3	2.02	0.60
2:J:964:ARG:O	2:J:967:GLU:HB2	2.00	0.60
2:K:1564:SER:HB2	2:K:1653:LEU:H	1.67	0.60
2:K:606:ALA:HB2	2:K:811:MET:HG3	1.83	0.60
2:K:846:THR:HG22	2:K:856:THR:N	2.17	0.60
2:L:290:VAL:HG22	2:L:490:LEU:HD13	1.83	0.60
2:L:752:HIS:NE2	2:L:856:THR:CG2	2.65	0.60
2:L:857:VAL:HG13	2:L:876:TRP:HE1	1.65	0.60
1:A:1168:TRP:NE1	1:A:1173:TYR:HE1	1.99	0.60
1:A:862:GLY:O	1:A:865:LYS:HB2	2.02	0.60
1:C:1081:ILE:HG13	1:C:1159:LEU:O	2.00	0.60
1:D:1094:LYS:HB3	1:D:1154:LEU:HB2	1.84	0.60
1:D:1532:LYS:HE2	1:D:1598:VAL:HG11	1.84	0.60
1:E:1100:VAL:HG21	1:E:1150:ILE:HD12	1.84	0.60
1:E:1342:ARG:HB2	1:E:1345:SER:HB2	1.84	0.60
2:G:129:ILE:HD13	2:G:132:LYS:HE3	1.83	0.60
2:G:1564:SER:HB2	2:G:1653:LEU:H	1.67	0.60
2:G:1554:PRO:HG3	2:G:1659:ILE:HD11	1.84	0.60
2:G:1669:ALA:HB3	2:G:1679:LEU:HB2	1.84	0.60
2:G:584:SER:HB3	2:G:1114:GLU:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2036:ILE:HG22	2:H:2037:GLY:H	1.65	0.60
2:H:824:THR:HB	2:H:829:LYS:HE3	1.83	0.60
2:I:854:VAL:HG21	2:I:1070:PRO:CA	2.31	0.60
2:I:1090:ILE:O	2:I:1094:HIS:HD2	1.84	0.60
2:I:2019:SER:HA	2:I:2022:LEU:HD12	1.84	0.60
2:I:661:ASN:HD21	4:I:2101:FMN:HN3	1.48	0.60
2:I:613:VAL:HG23	2:I:635:TYR:CE1	2.37	0.60
2:J:298:ALA:HB2	2:J:304:PHE:HA	1.83	0.60
2:J:467:ILE:HG23	2:J:468:PRO:HD2	1.83	0.60
2:J:117:ASN:OD1	2:J:561:ARG:HB2	2.02	0.60
2:J:794:GLY:O	2:J:804:PRO:HA	2.02	0.60
2:K:855:ILE:HB	2:K:869:ALA:HB2	1.84	0.60
1:B:1446:GLU:O	1:B:1450:ILE:HG13	2.01	0.59
1:C:1363:MET:HE1	1:C:1373:VAL:CG2	2.31	0.59
1:D:1451:LYS:HG2	1:D:1454:ARG:NH2	2.16	0.59
1:E:1095:GLN:O	1:E:1096:LEU:HD23	2.02	0.59
1:E:1081:ILE:HA	1:E:1163:GLN:HE22	1.67	0.59
1:E:1307:PHE:HB3	1:E:1357:CYS:CB	2.32	0.59
2:G:1393:ASP:HB3	2:G:1395:LEU:HD21	1.84	0.59
2:G:170:TYR:CZ	2:G:507:PHE:HB3	2.37	0.59
2:H:1094:HIS:O	2:H:1098:LEU:HB2	2.02	0.59
2:I:2036:ILE:CG2	2:I:2037:GLY:N	2.64	0.59
2:I:347:PRO:HA	2:I:432:PHE:CD1	2.37	0.59
2:I:374:GLU:CA	2:I:377:HIS:HD2	2.13	0.59
2:J:1593:SER:OG	2:J:1596:PHE:HB2	2.02	0.59
2:J:285:HIS:HD2	2:J:501:TRP:CE3	2.19	0.59
2:K:1421:ARG:O	2:K:1421:ARG:HG2	2.01	0.59
2:K:1515:LEU:O	2:K:1523:ILE:HD12	2.01	0.59
2:K:1674:THR:HB	2:K:1676:GLU:HG3	1.84	0.59
2:K:204:ILE:HG23	2:K:312:VAL:HG11	1.83	0.59
2:K:942:MET:HE2	2:K:955:LEU:HD13	1.82	0.59
2:L:825:SER:HB2	2:L:1053:ILE:HG13	1.83	0.59
2:L:596:ARG:HH22	2:L:1113:ILE:CD1	2.15	0.59
2:L:1232:VAL:CG1	2:L:1246:LEU:HD23	2.31	0.59
2:L:1171:TRP:CE3	2:L:1236:LEU:HD22	2.37	0.59
2:L:1612:THR:O	2:L:1616:VAL:HG12	2.02	0.59
2:L:410:ALA:HB1	2:L:414:LEU:HD12	1.83	0.59
2:L:882:LYS:HB3	2:L:898:ARG:HH12	1.67	0.59
1:A:1674:ILE:HD12	2:G:1010:ALA:HB3	1.84	0.59
1:A:571:LYS:O	1:A:575:ARG:HG2	2.02	0.59
1:A:683:THR:HB	1:A:714:PHE:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1032:MET:HE3	1:B:1165:PRO:HB3	1.83	0.59
1:C:15:VAL:HG11	2:I:2022:LEU:HD21	1.84	0.59
1:F:1330:GLU:HG2	1:F:1333:ARG:NH1	2.17	0.59
1:F:943:VAL:CG2	2:L:1539:PRO:HG3	2.32	0.59
2:G:327:PRO:HD2	2:H:1338:ARG:NH2	2.17	0.59
2:G:440:HIS:HD2	2:G:497:ASP:O	1.85	0.59
2:G:938:MET:HE1	2:G:959:THR:HA	1.82	0.59
2:H:1305:LEU:HD11	2:H:1365:LYS:HD2	1.83	0.59
2:I:22:ARG:O	2:I:37:VAL:HG23	2.02	0.59
2:I:87:VAL:HG22	2:I:98:ASN:HB3	1.85	0.59
2:J:1207:THR:O	2:J:1215:THR:HA	2.01	0.59
2:J:1375:HIS:HE1	2:J:1610:MET:SD	2.25	0.59
2:J:1966:ARG:O	2:J:1970:VAL:HG23	2.01	0.59
2:J:902:ILE:O	2:J:906:LEU:HB2	2.02	0.59
2:K:1818:PHE:HE2	2:K:1822:ARG:HH12	1.49	0.59
2:K:350:MET:HG3	2:K:435:ILE:HB	1.83	0.59
2:K:501:TRP:HE1	2:K:528:THR:CG2	2.09	0.59
2:K:57:PRO:CG	2:K:68:GLU:HG3	2.32	0.59
2:K:731:ALA:HA	2:K:739:ILE:HD13	1.84	0.59
2:K:752:HIS:NE2	2:K:856:THR:HG22	2.17	0.59
2:L:1722:ALA:CB	2:L:1812:LEU:HD21	2.32	0.59
1:A:1443:LEU:HD11	1:A:1470:ARG:HD2	1.84	0.59
1:A:998:GLY:HA3	1:A:1361:VAL:CG1	2.27	0.59
1:B:1491:ASN:H	1:B:1491:ASN:HD22	1.50	0.59
1:B:1547:ARG:HG2	1:B:1604:TYR:HD1	1.68	0.59
1:B:30:GLU:HB2	2:H:2045:ALA:HB1	1.83	0.59
1:B:557:ARG:NH1	1:E:558:LEU:HA	2.17	0.59
1:B:853:MET:HG2	1:B:856:ASN:HD22	1.67	0.59
1:D:11:TYR:O	1:D:15:VAL:HG23	2.02	0.59
1:E:1686:PRO:HB2	1:E:1713:PHE:CD1	2.37	0.59
1:F:569:LEU:O	1:F:573:VAL:HG23	2.02	0.59
1:F:612:ILE:CG2	1:F:628:TYR:CD2	2.86	0.59
2:G:1305:LEU:HD12	2:G:1305:LEU:H	1.67	0.59
2:G:1966:ARG:O	2:G:1970:VAL:HG23	2.01	0.59
2:G:24:LEU:HD12	2:G:37:VAL:HG21	1.83	0.59
1:B:42:GLU:OE1	2:H:1688:PRO:HB3	2.03	0.59
2:H:747:ARG:NH1	2:H:780:SER:HB3	2.17	0.59
2:I:1517:LEU:HG	2:I:1523:ILE:HD11	1.84	0.59
2:I:1805:PHE:O	2:I:1808:PRO:HD2	2.03	0.59
2:J:1092:ASN:HA	2:J:1095:ILE:HG12	1.83	0.59
2:K:24:LEU:HD12	2:K:37:VAL:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:472:THR:H	2:K:493:MET:HE3	1.66	0.59
2:L:768:ILE:O	2:L:774:ILE:HD12	2.01	0.59
1:A:636:TYR:CD1	1:A:888:ILE:HD11	2.37	0.59
1:A:532:ILE:CG2	1:A:907:PHE:CB	2.80	0.59
1:B:1269:SER:O	1:D:1386:THR:HB	2.02	0.59
1:B:989:ASN:H	1:B:1491:ASN:ND2	1.89	0.59
1:C:1234:GLY:HA2	1:C:1238:ASP:HB2	1.84	0.59
1:D:22:PHE:HE1	2:J:1867:MET:HG3	1.67	0.59
1:D:552:ILE:HG21	1:D:566:PHE:CZ	2.38	0.59
1:E:862:GLY:O	1:E:865:LYS:HB2	2.01	0.59
1:F:1095:GLN:O	1:F:1096:LEU:HD23	2.03	0.59
2:G:606:ALA:HB2	2:G:811:MET:HG3	1.84	0.59
2:G:741:LEU:O	2:G:741:LEU:HG	2.02	0.59
2:H:94:ALA:HB1	2:H:97:THR:OG1	2.02	0.59
2:I:1991:ARG:HG3	2:I:1996:ILE:HG12	1.85	0.59
2:J:1061:VAL:CG1	2:J:1066:ILE:HD11	2.32	0.59
2:J:1400:GLN:HG3	2:J:1448:ARG:HH12	1.68	0.59
2:J:348:THR:HB	2:J:349:PRO:CD	2.32	0.59
2:J:935:VAL:HG11	2:J:997:LEU:HD21	1.85	0.59
2:K:685:VAL:CG2	2:K:1186:ARG:HH12	2.04	0.59
1:E:42:GLU:OE1	2:K:1688:PRO:HB3	2.02	0.59
2:K:70:SER:HB2	2:K:74:GLU:OE2	2.01	0.59
2:L:349:PRO:O	2:L:392:THR:HG22	2.02	0.59
2:L:937:ARG:NE	2:L:941:LEU:HD11	2.17	0.59
1:A:1547:ARG:HG2	1:A:1604:TYR:CD1	2.38	0.59
1:B:1323:ALA:HB1	1:B:1351:PHE:HE2	1.68	0.59
1:B:570:TYR:CE1	1:B:574:ILE:HD11	2.38	0.59
1:B:947:ASP:O	1:B:951:LEU:HG	2.02	0.59
1:C:1307:PHE:HB3	1:C:1357:CYS:CB	2.32	0.59
1:C:766:ALA:HA	1:C:769:ILE:HD12	1.83	0.59
1:D:617:LEU:N	1:D:617:LEU:HD23	2.17	0.59
1:E:1581:LEU:HD23	1:E:1617:ILE:HG12	1.84	0.59
1:E:470:GLY:O	1:E:474:ILE:HG13	2.02	0.59
1:F:434:ILE:HD11	1:F:490:VAL:HG21	1.83	0.59
2:G:1603:PRO:HG2	2:G:1642:MET:HE3	1.83	0.59
2:G:663:ILE:HG21	3:G:2102:NAP:H1D	1.84	0.59
2:G:779:GLY:HA3	2:G:811:MET:HE3	1.85	0.59
2:G:95:HIS:HB2	2:G:96:PRO:HD3	1.84	0.59
2:H:2036:ILE:CG2	2:H:2037:GLY:N	2.64	0.59
2:H:228:LEU:O	2:H:232:HIS:HD2	1.86	0.59
2:H:272:PRO:HD3	2:H:301:TRP:CE2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:706:ILE:HG22	2:H:707:GLN:HG2	1.84	0.59
2:I:1266:HIS:NE2	2:I:1275:ARG:HD2	2.17	0.59
2:I:686:PRO:HB3	2:I:1187:PHE:CE1	2.36	0.59
2:I:917:ARG:HD2	2:I:917:ARG:N	2.17	0.59
2:J:1455:GLN:HB2	2:J:1551:ILE:CD1	2.32	0.59
2:J:661:ASN:HD21	4:J:2101:FMN:HN3	1.50	0.59
2:J:752:HIS:NE2	2:J:856:THR:CG2	2.66	0.59
2:L:1374:VAL:CG2	2:L:1436:ARG:HE	2.16	0.59
2:L:1701:GLU:H	2:L:1704:MET:CE	2.15	0.59
2:L:779:GLY:HA3	2:L:811:MET:HE3	1.85	0.59
2:L:962:PHE:O	2:L:966:VAL:HG23	2.03	0.59
1:A:1154:LEU:HD21	1:E:1118:GLU:OE2	2.02	0.59
1:A:1207:TYR:CZ	1:A:1682:LYS:HD2	2.37	0.59
1:A:716:GLN:HB3	1:A:769:ILE:HG23	1.85	0.59
1:A:947:ASP:O	1:A:951:LEU:HG	2.01	0.59
1:B:1120:LYS:HD3	1:B:1129:ILE:HG12	1.84	0.59
1:B:1700:GLN:O	1:B:1702:ARG:HG3	2.02	0.59
1:B:696:GLN:HG3	1:B:697:GLY:N	2.16	0.59
1:C:960:ARG:HH12	2:I:968:GLU:CD	2.05	0.59
1:E:1183:VAL:HG13	1:E:1252:GLU:OE1	2.02	0.59
1:E:427:ARG:HD2	1:E:490:VAL:HG12	1.85	0.59
2:G:186:LEU:HG	2:G:256:VAL:HG22	1.84	0.59
2:H:1377:SER:HB3	2:H:1432:GLN:HB2	1.84	0.59
2:H:1700:GLN:HA	2:H:1704:MET:CE	2.30	0.59
2:H:1740:ASN:O	2:H:1742:PRO:HD3	2.01	0.59
2:H:374:GLU:CA	2:H:377:HIS:CD2	2.77	0.59
2:I:129:ILE:HD13	2:I:132:LYS:HE3	1.84	0.59
2:I:1620:VAL:O	2:I:1624:ALA:HB3	2.03	0.59
2:I:1637:VAL:CG1	2:I:1679:LEU:HD22	2.33	0.59
2:J:788:THR:HG22	2:J:1094:HIS:CE1	2.37	0.59
2:J:1404:VAL:O	2:J:1445:THR:HA	2.02	0.59
2:J:1851:MET:HE2	2:J:1855:SER:HB3	1.85	0.59
2:K:580:LEU:HD12	2:K:1103:TYR:CE2	2.37	0.59
2:K:747:ARG:NH1	2:K:780:SER:HB3	2.17	0.59
2:L:293:ALA:HA	2:L:469:VAL:HG21	1.84	0.59
2:L:613:VAL:CG1	2:L:614:PRO:HD3	2.32	0.59
1:A:1095:GLN:O	1:A:1096:LEU:HD23	2.02	0.59
1:B:1186:VAL:HG23	1:B:1309:ASP:HB2	1.85	0.59
1:B:1510:TRP:CZ3	1:B:1642:LEU:HA	2.38	0.59
1:D:1086:PHE:CE2	1:D:1310:PHE:HD2	2.20	0.59
1:D:1483:ALA:HA	1:D:1486:GLN:HE21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1446:GLU:O	1:F:1450:ILE:HG13	2.03	0.59
1:F:849:GLY:HA3	1:F:873:GLN:CG	2.33	0.59
1:F:862:GLY:O	1:F:865:LYS:HB2	2.02	0.59
2:H:1266:HIS:NE2	2:H:1275:ARG:HD2	2.18	0.59
2:H:186:LEU:CD2	2:H:256:VAL:HG22	2.33	0.59
2:H:298:ALA:CB	2:H:304:PHE:HA	2.32	0.59
2:H:327:PRO:CD	2:I:1338:ARG:NH2	2.62	0.59
2:H:70:SER:HB2	2:H:74:GLU:OE2	2.02	0.59
2:I:788:THR:HG22	2:I:1094:HIS:CE1	2.37	0.59
2:J:2036:ILE:HG22	2:J:2037:GLY:H	1.67	0.59
2:J:350:MET:HG3	2:J:435:ILE:HB	1.85	0.59
2:J:380:ILE:HG13	2:J:380:ILE:O	2.03	0.59
2:J:635:TYR:CB	2:J:641:MET:HG3	2.32	0.59
2:J:942:MET:HE1	2:J:955:LEU:HB3	1.84	0.59
2:K:1933:LEU:O	2:K:1989:LEU:HD21	2.03	0.59
2:K:351:LEU:HD22	2:K:352:SER:N	2.17	0.59
2:K:467:ILE:HG23	2:K:468:PRO:HD2	1.84	0.59
2:L:1067:LEU:HB2	4:L:2101:FMN:HM71	1.85	0.59
2:L:1090:ILE:O	2:L:1094:HIS:HD2	1.84	0.59
2:L:1305:LEU:HD12	2:L:1305:LEU:H	1.65	0.59
2:L:752:HIS:CE1	2:L:847:TYR:CE2	2.80	0.59
1:A:1079:ARG:NH1	1:A:1079:ARG:HG2	2.09	0.59
1:A:1446:GLU:O	1:A:1450:ILE:HG13	2.01	0.59
1:A:427:ARG:NH1	1:A:427:ARG:CG	2.57	0.59
1:A:767:HIS:CE1	1:F:767:HIS:HE1	2.20	0.59
1:D:1700:GLN:O	1:D:1702:ARG:HG3	2.02	0.59
1:E:1505:GLY:O	1:E:1509:THR:HG23	2.03	0.59
2:G:1007:LEU:N	2:G:1007:LEU:HD12	2.15	0.59
2:G:1324:PHE:N	2:G:1583:VAL:HG11	2.18	0.59
2:G:1551:ILE:HG22	2:G:1552:GLU:HG3	1.84	0.59
2:G:1554:PRO:HA	2:G:1659:ILE:HG12	1.85	0.59
2:G:57:PRO:HG2	2:G:68:GLU:HG3	1.83	0.59
2:G:699:ILE:H	2:G:699:ILE:HD12	1.67	0.59
2:H:1093:ASP:O	2:H:1097:PHE:HD1	1.85	0.59
2:I:186:LEU:HG	2:I:256:VAL:HG22	1.85	0.59
2:I:298:ALA:CB	2:I:304:PHE:HA	2.33	0.59
2:I:351:LEU:HD22	2:I:352:SER:N	2.18	0.59
2:I:420:PRO:HG3	2:I:847:TYR:CE1	2.38	0.59
2:I:875:PHE:CD1	2:I:905:LYS:HD3	2.37	0.59
2:K:1342:PHE:HE2	2:K:1391:VAL:CG2	2.14	0.59
2:K:1454:MET:CE	2:K:1550:SER:HA	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:170:TYR:CE2	2:K:507:PHE:HB3	2.37	0.59
2:L:1099:LEU:HD12	2:L:1103:TYR:HB2	1.83	0.59
2:L:1454:MET:CE	2:L:1550:SER:HA	2.33	0.59
2:L:1851:MET:HE2	2:L:1855:SER:HB3	1.85	0.59
2:L:1903:VAL:O	2:L:1907:ILE:HG13	2.03	0.59
2:L:1966:ARG:O	2:L:1970:VAL:HG23	2.02	0.59
2:L:580:LEU:HD11	2:L:1098:LEU:HB3	1.85	0.59
2:L:918:ASN:HB3	2:L:924:VAL:CG2	2.33	0.59
1:A:987:MET:O	1:A:1490:GLY:HA3	2.03	0.59
1:A:418:ILE:HA	1:A:462:THR:HB	1.84	0.59
1:A:552:ILE:HG21	1:A:566:PHE:CZ	2.38	0.59
1:A:849:GLY:HA3	1:A:873:GLN:CG	2.32	0.59
1:A:926:SER:O	1:A:930:GLN:HG2	2.02	0.59
1:B:1004:PRO:HD3	1:B:1572:TRP:CH2	2.38	0.59
1:B:1510:TRP:HZ3	1:B:1642:LEU:HA	1.67	0.59
1:B:339:GLN:O	1:B:343:ILE:HG13	2.02	0.59
1:B:415:TYR:O	1:B:419:PHE:HD1	1.85	0.59
1:C:1223:GLY:HA3	1:C:1276:PRO:HD2	1.84	0.59
1:C:1504:ARG:NH1	1:C:1504:ARG:CG	2.41	0.59
1:C:427:ARG:NH1	1:C:492:ILE:HG23	2.10	0.59
1:C:883:LEU:HA	1:C:888:ILE:HD12	1.84	0.59
1:D:1672:GLY:HA3	1:D:1678:LEU:CD2	2.31	0.59
1:E:1168:TRP:NE1	1:E:1173:TYR:HE1	2.01	0.59
2:G:228:LEU:O	2:G:232:HIS:HD2	1.86	0.59
2:G:22:ARG:O	2:G:37:VAL:HG23	2.03	0.59
2:G:612:THR:HG22	2:G:612:THR:O	2.03	0.59
2:H:768:ILE:O	2:H:774:ILE:HD12	2.02	0.59
2:H:794:GLY:O	2:H:804:PRO:HA	2.03	0.59
2:I:1007:LEU:CD1	2:I:1007:LEU:H	2.13	0.59
2:I:1481:ILE:HD12	2:I:1515:LEU:HD23	1.84	0.59
2:I:1674:THR:HB	2:I:1676:GLU:HG3	1.85	0.59
2:I:1807:GLN:HB2	2:I:1808:PRO:HD3	1.85	0.59
2:I:752:HIS:NE2	2:I:856:THR:CG2	2.65	0.59
2:I:747:ARG:NH1	2:I:780:SER:HB3	2.18	0.59
2:J:1380:TYR:CD2	2:J:1429:VAL:HG22	2.37	0.59
2:J:1881:TYR:CZ	2:J:2009:PHE:HE1	2.21	0.59
2:K:1991:ARG:HG3	2:K:1996:ILE:HG12	1.85	0.59
2:K:613:VAL:HG13	2:K:614:PRO:HD3	1.84	0.59
2:K:653:PRO:O	2:K:656:ARG:HB2	2.03	0.59
2:K:824:THR:HB	2:K:829:LYS:HE3	1.83	0.59
2:K:962:PHE:O	2:K:966:VAL:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1120:ILE:HD13	2:L:1173:HIS:CE1	2.37	0.59
1:D:68:TYR:CD1	2:L:371:HIS:CD2	2.90	0.59
2:L:501:TRP:HE1	2:L:528:THR:CG2	2.09	0.59
1:A:1121:ARG:NH1	1:E:1153:ALA:O	2.36	0.59
1:A:414:TYR:CE2	1:A:418:ILE:HD11	2.37	0.59
1:A:883:LEU:HA	1:A:888:ILE:HD12	1.84	0.59
1:B:1547:ARG:HG2	1:B:1604:TYR:CD1	2.37	0.59
1:B:1691:ILE:HG22	1:B:1695:VAL:HG23	1.84	0.59
1:B:1703:VAL:HG11	1:B:1711:LEU:HB3	1.85	0.59
1:B:399:TYR:OH	1:B:692:THR:HG23	2.02	0.59
1:D:415:TYR:O	1:D:419:PHE:HD1	1.86	0.59
1:D:541:VAL:O	1:D:545:LEU:HG	2.03	0.59
1:D:755:GLU:HB2	1:D:757:ASP:HB2	1.84	0.59
1:D:503:ARG:HA	1:D:933:ILE:HD11	1.85	0.59
1:E:957:THR:HG21	2:K:967:GLU:HB3	1.84	0.59
1:C:1269:SER:O	1:F:1386:THR:HB	2.02	0.59
1:C:1484:GLU:OE1	1:F:1488:SER:HB3	2.03	0.59
1:F:1207:TYR:CZ	1:F:1682:LYS:HD2	2.37	0.59
1:F:40:ARG:NH2	1:F:72:THR:HG22	2.18	0.59
1:F:430:VAL:O	1:F:434:ILE:HG13	2.03	0.59
2:G:1009:ASN:O	2:G:1013:VAL:HG23	2.02	0.59
2:G:167:VAL:CG2	2:G:169:ILE:HG13	2.32	0.59
2:G:623:ASN:OD1	2:G:653:PRO:HD3	2.03	0.59
2:G:70:SER:HB2	2:G:74:GLU:OE2	2.03	0.59
2:H:1061:VAL:CG1	2:H:1066:ILE:HD11	2.33	0.59
2:H:1851:MET:HE2	2:H:1855:SER:HB3	1.84	0.59
2:H:1899:ALA:O	2:H:1903:VAL:HG23	2.03	0.59
2:H:663:ILE:H	2:H:663:ILE:CD1	2.15	0.59
2:I:1844:LEU:HB3	2:I:1850:VAL:HG21	1.84	0.59
2:I:752:HIS:CE1	2:I:847:TYR:CE2	2.79	0.59
2:J:590:VAL:HG23	2:J:1091:HIS:CD2	2.37	0.59
2:J:606:ALA:HB2	2:J:811:MET:HG3	1.84	0.59
2:K:1721:ARG:HH21	2:K:1853:ILE:HD12	1.66	0.59
2:K:372:LEU:HD11	2:K:397:SER:HB2	1.83	0.59
2:K:635:TYR:CB	2:K:641:MET:HG3	2.33	0.59
2:K:915:PHE:HB2	2:K:1030:PHE:CD1	2.38	0.59
2:L:1899:ALA:O	2:L:1903:VAL:HG23	2.02	0.59
2:L:472:THR:H	2:L:493:MET:HE3	1.66	0.59
1:A:1307:PHE:HB3	1:A:1357:CYS:HB2	1.85	0.58
1:A:41:THR:HG21	2:G:1691:ALA:HB2	1.85	0.58
1:B:1367:LEU:HD22	1:B:1371:MET:HG3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:442:PRO:HD2	1:B:443:LEU:HD12	1.85	0.58
1:B:620:LYS:HA	1:B:625:ASN:O	2.02	0.58
1:C:905:LEU:HD23	1:C:908:ILE:HD12	1.85	0.58
1:D:1005:TRP:NE1	1:D:1561:LEU:CD2	2.65	0.58
1:E:1446:GLU:O	1:E:1450:ILE:HG13	2.03	0.58
1:E:1443:LEU:HD11	1:E:1470:ARG:HD2	1.85	0.58
1:A:1401:LEU:HD22	1:E:1697:LEU:HD21	1.85	0.58
1:E:501:ASP:OD2	1:E:503:ARG:HB2	2.03	0.58
1:F:1363:MET:HE1	1:F:1373:VAL:CG2	2.31	0.58
1:F:696:GLN:HG3	1:F:697:GLY:N	2.17	0.58
2:G:1094:HIS:O	2:G:1098:LEU:HB2	2.03	0.58
2:G:1318:ALA:HA	2:G:1391:VAL:CG2	2.33	0.58
2:G:1350:ILE:O	2:G:1354:TRP:HB2	2.03	0.58
2:G:462:ALA:HB2	2:G:481:LEU:HB2	1.85	0.58
2:G:731:ALA:HA	2:G:739:ILE:HD13	1.85	0.58
2:G:846:THR:HG22	2:G:856:THR:N	2.18	0.58
2:H:1309:PHE:CE2	2:H:1360:PRO:HA	2.38	0.58
2:H:1370:LEU:HA	2:H:1435:TYR:HE2	1.68	0.58
2:H:779:GLY:HA3	2:H:811:MET:HE3	1.85	0.58
2:H:992:ALA:O	2:H:995:ARG:HB3	2.02	0.58
2:I:120:HIS:HD2	2:I:137:VAL:HG21	1.66	0.58
2:I:1380:TYR:CD2	2:I:1429:VAL:HG22	2.38	0.58
2:I:1880:ASN:HB3	2:I:1881:TYR:CD1	2.38	0.58
2:I:743:TRP:HZ2	2:I:757:PHE:HA	1.68	0.58
2:I:930:THR:HA	2:I:1007:LEU:HA	1.85	0.58
2:J:1709:TYR:C	2:J:1709:TYR:HD2	2.06	0.58
2:J:1750:GLY:O	2:J:1755:LYS:HE3	2.02	0.58
2:J:1944:ASN:HA	2:J:1993:PHE:CD2	2.37	0.58
2:J:942:MET:CE	2:J:955:LEU:HB3	2.32	0.58
2:K:1764:MET:HB3	2:K:1780:ILE:CD1	2.33	0.58
2:L:580:LEU:HD12	2:L:1103:TYR:CE2	2.38	0.58
2:L:1867:MET:O	2:L:2003:VAL:HG21	2.02	0.58
1:F:6:GLU:HA	2:L:2050:ILE:HD11	1.85	0.58
2:L:616:ASP:OD1	2:L:616:ASP:N	2.35	0.58
2:L:606:ALA:HB2	2:L:811:MET:HG3	1.83	0.58
1:B:1703:VAL:HG22	1:B:1712:LYS:C	2.23	0.58
1:B:434:ILE:HD11	1:B:490:VAL:HG21	1.85	0.58
1:C:1120:LYS:HD3	1:C:1129:ILE:HG12	1.85	0.58
1:C:636:TYR:CZ	1:C:640:LEU:HD22	2.38	0.58
1:C:755:GLU:HB2	1:C:757:ASP:HB2	1.85	0.58
1:D:1580:VAL:O	1:D:1617:ILE:HD11	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1038:HIS:O	1:E:1048:SER:HA	2.03	0.58
1:E:1330:GLU:HG2	1:E:1333:ARG:NH1	2.18	0.58
1:E:1606:VAL:O	1:E:1608:PRO:HD3	2.03	0.58
2:G:1538:ASN:HB3	2:G:1541:ILE:HG22	1.85	0.58
2:G:1709:TYR:C	2:G:1709:TYR:HD2	2.06	0.58
2:G:351:LEU:HD22	2:G:352:SER:N	2.17	0.58
2:G:706:ILE:HG22	2:G:707:GLN:HG2	1.84	0.58
2:I:1171:TRP:CZ3	2:I:1236:LEU:HB2	2.38	0.58
2:I:1913:TRP:HZ3	2:I:1938:THR:HG21	1.68	0.58
2:I:348:THR:HB	2:I:349:PRO:CD	2.33	0.58
2:J:1436:ARG:NH2	2:J:1602:LEU:CD1	2.67	0.58
2:J:1620:VAL:O	2:J:1624:ALA:HB3	2.03	0.58
2:J:875:PHE:CD1	2:J:905:LYS:HD3	2.38	0.58
2:K:1612:THR:O	2:K:1616:VAL:HG12	2.03	0.58
2:K:1669:ALA:HB3	2:K:1679:LEU:HB2	1.84	0.58
2:K:1722:ALA:CB	2:K:1812:LEU:HD21	2.33	0.58
2:K:374:GLU:CA	2:K:377:HIS:HD2	2.13	0.58
2:K:917:ARG:HH11	2:K:917:ARG:HG2	1.66	0.58
2:L:1265:TYR:O	2:L:1267:PRO:HD3	2.03	0.58
2:L:610:PRO:HD2	4:L:2101:FMN:C6	2.24	0.58
2:L:876:TRP:CD1	2:L:876:TRP:C	2.77	0.58
2:L:952:ASP:OD1	2:L:953:PRO:HD2	2.04	0.58
1:C:828:TRP:HE1	1:C:838:THR:HA	1.67	0.58
1:F:1218:VAL:HG13	1:F:1301:VAL:HG13	1.85	0.58
2:G:1421:ARG:HG2	2:G:1421:ARG:O	2.02	0.58
2:G:2036:ILE:HG22	2:G:2037:GLY:H	1.67	0.58
2:G:410:ALA:HB1	2:G:414:LEU:HD12	1.85	0.58
2:G:600:VAL:HG13	2:G:601:PRO:CD	2.34	0.58
2:G:94:ALA:HB1	2:G:97:THR:OG1	2.03	0.58
2:H:380:ILE:HG13	2:H:380:ILE:O	2.03	0.58
2:I:2005:PHE:HB3	2:I:2010:LEU:HD11	1.83	0.58
2:J:1094:HIS:O	2:J:1098:LEU:HB2	2.02	0.58
2:J:57:PRO:HG2	2:J:68:GLU:HG3	1.84	0.58
2:K:298:ALA:CB	2:K:304:PHE:HA	2.32	0.58
2:L:1436:ARG:NH2	2:L:1602:LEU:CD1	2.66	0.58
1:F:1107:GLU:HG3	1:F:1108:PRO:CD	2.29	0.58
1:F:470:GLY:O	1:F:474:ILE:HG13	2.04	0.58
2:G:596:ARG:HH22	2:G:1113:ILE:CD1	2.16	0.58
2:G:1764:MET:HB3	2:G:1780:ILE:CD1	2.33	0.58
2:H:867:LYS:HD3	2:H:1065:CYS:SG	2.43	0.58
2:G:327:PRO:HD2	2:H:1338:ARG:HH21	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:290:VAL:HG22	2:H:490:LEU:HD13	1.85	0.58
2:H:43:PHE:HZ	2:I:42:HIS:NE2	2.01	0.58
2:I:1309:PHE:CE2	2:I:1360:PRO:HA	2.38	0.58
2:J:1317:ASN:HB3	2:J:1320:ALA:HB3	1.85	0.58
2:J:1807:GLN:HB2	2:J:1808:PRO:HD3	1.85	0.58
2:J:2044:THR:HG22	2:J:2046:LYS:H	1.68	0.58
2:J:462:ALA:H	2:J:483:ASP:HA	1.68	0.58
2:J:573:VAL:HG22	2:J:804:PRO:HB2	1.85	0.58
2:K:1370:LEU:HD12	2:K:1373:LEU:HD13	1.85	0.58
2:K:228:LEU:O	2:K:232:HIS:HD2	1.86	0.58
2:L:1709:TYR:C	2:L:1709:TYR:HD2	2.07	0.58
2:L:794:GLY:O	2:L:804:PRO:HA	2.03	0.58
1:B:1336:GLU:O	1:B:1340:MET:HG2	2.03	0.58
1:B:12:THR:O	1:B:16:GLU:HG2	2.03	0.58
1:B:350:ASP:HB3	1:B:353:ALA:HB2	1.84	0.58
1:B:843:VAL:HG13	1:B:900:ASP:HA	1.86	0.58
1:C:1488:SER:HB3	1:F:1484:GLU:OE1	2.03	0.58
1:C:569:LEU:O	1:C:573:VAL:HG23	2.03	0.58
1:C:628:TYR:OH	1:C:630:LYS:HE2	2.03	0.58
1:D:1234:GLY:HA2	1:D:1238:ASP:HB2	1.84	0.58
1:D:470:GLY:O	1:D:474:ILE:HG13	2.03	0.58
1:D:632:LEU:HA	1:D:635:ILE:CG2	2.33	0.58
1:D:70:ALA:O	2:L:403:LEU:HD12	2.03	0.58
1:D:40:ARG:HH21	1:D:72:THR:HG22	1.69	0.58
1:F:911:LEU:O	1:F:915:MET:HG3	2.04	0.58
2:G:1637:VAL:HG11	2:G:1679:LEU:CD1	2.32	0.58
2:G:289:ILE:HG12	2:G:493:MET:CE	2.32	0.58
2:G:670:MET:HB2	2:G:674:ILE:HD12	1.84	0.58
2:G:882:LYS:HB3	2:G:898:ARG:HH12	1.69	0.58
2:H:351:LEU:HD22	2:H:352:SER:N	2.18	0.58
2:I:756:ASP:HA	2:I:843:TRP:HH2	1.69	0.58
2:J:1309:PHE:CE2	2:J:1360:PRO:HA	2.39	0.58
2:J:485:ASP:O	2:J:488:PRO:HD2	2.03	0.58
2:J:670:MET:HB2	2:J:674:ILE:HD12	1.86	0.58
2:K:349:PRO:O	2:K:392:THR:HG22	2.03	0.58
2:K:529:ASN:HD22	2:K:552:VAL:HG23	1.68	0.58
2:K:798:THR:HA	2:K:802:TYR:O	2.02	0.58
2:L:1120:ILE:HG21	2:L:1167:ASN:HA	1.85	0.58
2:L:1517:LEU:HG	2:L:1523:ILE:HD11	1.85	0.58
2:L:1659:ILE:HG13	2:L:1664:ILE:HD11	1.86	0.58
2:L:1701:GLU:H	2:L:1704:MET:HE3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1991:ARG:HG3	2:L:1996:ILE:HG12	1.85	0.58
2:L:305:ALA:O	2:L:309:LYS:HD3	2.04	0.58
2:L:348:THR:HB	2:L:349:PRO:CD	2.34	0.58
1:D:1278:GLY:CA	1:D:1630:LYS:HE2	2.33	0.58
1:D:1004:PRO:HD3	1:D:1572:TRP:CH2	2.38	0.58
1:D:339:GLN:O	1:D:343:ILE:HG13	2.04	0.58
1:D:418:ILE:HA	1:D:462:THR:HB	1.85	0.58
1:D:427:ARG:NH1	1:D:492:ILE:HG23	2.11	0.58
1:D:716:GLN:HB3	1:D:769:ILE:HG23	1.85	0.58
1:E:890:ASN:OD1	2:H:1755:LYS:HE2	2.04	0.58
2:G:635:TYR:CB	2:G:641:MET:HG3	2.33	0.58
2:G:917:ARG:HD2	2:G:917:ARG:N	2.17	0.58
2:G:978:SER:O	2:G:981:GLN:HG2	2.03	0.58
2:H:1515:LEU:O	2:H:1523:ILE:HD12	2.03	0.58
2:H:1194:ARG:HH21	2:H:1601:ASN:CG	2.05	0.58
2:H:1674:THR:HB	2:H:1676:GLU:HG3	1.84	0.58
2:I:926:LEU:O	2:I:1008:ILE:HD11	2.04	0.58
2:I:272:PRO:HD3	2:I:301:TRP:CE2	2.38	0.58
2:I:613:VAL:CG1	2:I:614:PRO:HD3	2.33	0.58
2:I:917:ARG:HH11	2:I:917:ARG:HG2	1.67	0.58
2:J:440:HIS:HD2	2:J:497:ASP:O	1.87	0.58
2:J:462:ALA:HB2	2:J:481:LEU:HB2	1.86	0.58
2:J:713:HIS:CD2	2:J:740:ILE:HD13	2.38	0.58
2:K:102:LEU:O	2:K:106:LEU:HG	2.03	0.58
2:K:1189:THR:O	2:K:1191:PRO:HD3	2.03	0.58
2:K:1538:ASN:HB3	2:K:1541:ILE:HG22	1.85	0.58
2:K:580:LEU:HD11	2:K:1098:LEU:HB3	1.85	0.58
2:K:786:GLU:H	2:K:786:GLU:CD	2.06	0.58
2:K:918:ASN:HB3	2:K:924:VAL:CG2	2.33	0.58
2:L:1116:PHE:O	2:L:1270:GLY:HA3	2.03	0.58
2:L:1637:VAL:HG11	2:L:1679:LEU:HD22	1.86	0.58
2:L:1897:GLU:HG2	2:L:1901:GLN:HE21	1.68	0.58
2:L:2021:LEU:O	2:L:2025:ILE:HG13	2.03	0.58
2:L:549:ASN:HD22	2:L:550:THR:N	2.02	0.58
1:A:1001:GLU:O	1:A:1007:ASN:HA	2.04	0.58
1:A:1491:ASN:H	1:A:1491:ASN:HD22	1.52	0.58
1:B:1081:ILE:HG13	1:B:1159:LEU:O	2.02	0.58
1:B:1317:GLU:HB3	1:D:1250:LEU:HD22	1.84	0.58
1:B:1443:LEU:HD11	1:B:1470:ARG:HD2	1.85	0.58
1:C:859:VAL:HG11	1:C:915:MET:HA	1.84	0.58
1:D:1425:LEU:HD21	1:D:1429:ARG:NH2	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:679:LYS:HG2	1:D:708:GLN:HB3	1.86	0.58
2:G:1579:ASN:O	2:G:1583:VAL:HG23	2.04	0.58
2:G:1674:THR:HB	2:G:1676:GLU:HG3	1.85	0.58
2:G:2005:PHE:HB3	2:G:2010:LEU:HD11	1.85	0.58
2:G:272:PRO:O	2:G:276:LEU:HB2	2.03	0.58
2:G:350:MET:HG3	2:G:435:ILE:HB	1.84	0.58
2:G:868:LEU:O	2:G:870:THR:HG23	2.03	0.58
2:H:789:TYR:HB3	2:H:790:PRO:HD3	1.85	0.58
2:H:917:ARG:HG2	2:H:917:ARG:HH11	1.65	0.58
2:I:1099:LEU:HD12	2:I:1103:TYR:HB2	1.85	0.58
2:I:1616:VAL:HG11	2:I:1679:LEU:CD1	2.33	0.58
2:I:623:ASN:OD1	2:I:653:PRO:HD3	2.02	0.58
2:I:70:SER:HB2	2:I:74:GLU:OE2	2.03	0.58
2:I:846:THR:HG22	2:I:856:THR:N	2.19	0.58
2:I:871:ARG:CZ	2:I:909:ASP:HB3	2.33	0.58
2:I:934:VAL:O	2:I:938:MET:HG3	2.04	0.58
2:J:1844:LEU:HB3	2:J:1850:VAL:HG21	1.85	0.58
2:K:1007:LEU:H	2:K:1007:LEU:CD1	2.15	0.58
2:K:1048:TRP:HE1	2:K:1049:GLN:HE21	1.50	0.58
2:K:1375:HIS:HE1	2:K:1610:MET:SD	2.26	0.58
2:K:1067:LEU:HB2	4:K:2101:FMN:HM71	1.85	0.58
2:L:35:PHE:HZ	2:L:104:LEU:HB3	1.69	0.58
2:L:1481:ILE:HD12	2:L:1515:LEU:HD23	1.85	0.58
2:L:289:ILE:HG12	2:L:493:MET:CE	2.32	0.58
2:L:420:PRO:HG3	2:L:847:TYR:CD1	2.38	0.58
1:A:1532:LYS:HE2	1:A:1598:VAL:HG11	1.85	0.58
1:A:628:TYR:CD1	1:A:628:TYR:C	2.77	0.58
1:B:1425:LEU:HD21	1:B:1429:ARG:NH2	2.18	0.58
1:B:636:TYR:CD1	1:B:888:ILE:HD11	2.39	0.58
1:C:1448:ALA:CA	1:C:1451:LYS:HE3	2.32	0.58
1:C:1524:GLY:HA2	1:C:1531:ASP:OD1	2.04	0.58
1:C:433:CYS:O	1:C:437:MET:HG3	2.03	0.58
1:E:1001:GLU:HG2	1:E:1008:ALA:HB2	1.86	0.58
1:E:613:PRO:C	1:E:615:LEU:H	2.05	0.58
1:F:427:ARG:HG3	1:F:427:ARG:NH1	2.01	0.58
2:G:1083:ILE:O	2:G:1086:ILE:HG13	2.04	0.58
2:G:119:VAL:HG21	2:G:140:TYR:CD2	2.39	0.58
2:H:785:SER:HA	2:H:788:THR:HB	1.86	0.58
2:H:876:TRP:C	2:H:876:TRP:CD1	2.76	0.58
2:I:1374:VAL:CG2	2:I:1436:ARG:HE	2.17	0.58
2:I:1846:ALA:HB3	2:I:1847:LEU:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1903:VAL:O	2:I:1907:ILE:HG13	2.04	0.58
2:J:119:VAL:HG21	2:J:140:TYR:CD2	2.39	0.58
2:J:859:SER:CB	2:J:863:GLU:HG3	2.34	0.58
2:K:596:ARG:HH22	2:K:1113:ILE:CD1	2.16	0.58
2:K:1200:ARG:HD3	2:K:1200:ARG:N	2.06	0.58
2:K:1318:ALA:HA	2:K:1391:VAL:CG2	2.34	0.58
2:K:1637:VAL:CG1	2:K:1679:LEU:HD22	2.34	0.58
2:K:158:LEU:HA	2:K:566:VAL:HG21	1.85	0.58
2:K:609:THR:HG22	2:K:633:GLY:HA3	1.85	0.58
2:L:1944:ASN:HA	2:L:1993:PHE:CD2	2.38	0.58
2:L:190:TYR:CD1	2:L:201:ILE:HD13	2.38	0.58
2:L:268:LEU:HD12	2:L:275:LEU:HD11	1.86	0.58
2:L:789:TYR:HB3	2:L:790:PRO:HD3	1.84	0.58
1:A:1542:LEU:HD22	1:A:1547:ARG:HD3	1.84	0.58
1:B:444:LEU:HD22	1:B:448:MET:HG2	1.85	0.58
1:C:1079:ARG:HG2	1:C:1079:ARG:NH1	2.13	0.58
1:D:883:LEU:HA	1:D:888:ILE:HD12	1.85	0.58
1:E:1711:LEU:O	1:E:1712:LYS:HG3	2.04	0.58
1:E:30:GLU:HB2	2:K:2045:ALA:HB1	1.85	0.58
1:E:399:TYR:OH	1:E:692:THR:HG23	2.03	0.58
1:E:847:THR:OG1	1:E:876:MET:HG3	2.03	0.58
1:E:924:GLU:OE1	2:K:1461:PRO:HG2	2.04	0.58
2:G:1248:GLU:OE1	2:G:1248:GLU:HA	2.04	0.58
2:G:1457:HIS:ND1	2:G:1487:THR:HG22	2.19	0.58
2:G:1933:LEU:O	2:G:1989:LEU:HD21	2.03	0.58
2:G:876:TRP:CD1	2:G:876:TRP:C	2.77	0.58
2:H:653:PRO:O	2:H:656:ARG:HB2	2.04	0.58
2:H:752:HIS:CE1	2:H:847:TYR:CE2	2.80	0.58
2:H:868:LEU:O	2:H:870:THR:HG23	2.04	0.58
2:J:1232:VAL:CG1	2:J:1246:LEU:HD23	2.34	0.58
2:J:152:LYS:HB2	2:J:154:TYR:CE1	2.39	0.58
2:J:1616:VAL:HG11	2:J:1679:LEU:CD1	2.32	0.58
2:J:1818:PHE:HE2	2:J:1822:ARG:HH12	1.51	0.58
2:J:616:ASP:OD1	2:J:616:ASP:N	2.36	0.58
2:J:613:VAL:HG23	2:J:635:TYR:CE1	2.39	0.58
2:K:1384:PRO:HB3	2:K:1829:ARG:HH12	1.67	0.58
2:L:788:THR:HG22	2:L:1094:HIS:CE1	2.38	0.58
2:L:1334:ALA:HA	2:L:1341:ASP:HB2	1.84	0.58
2:L:1350:ILE:O	2:L:1354:TRP:HB2	2.03	0.58
2:L:272:PRO:HD3	2:L:301:TRP:CE2	2.38	0.58
2:L:170:TYR:CE2	2:L:507:PHE:HB3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1149:LEU:HB2	1:E:1149:LEU:HB2	1.85	0.58
1:B:1514:ILE:O	1:B:1547:ARG:NH1	2.36	0.58
1:D:1164:ILE:HD12	1:D:1355:GLN:HG3	1.85	0.58
2:G:1142:ILE:HG13	2:G:1209:PRO:CG	2.34	0.58
2:G:1818:PHE:HE2	2:G:1822:ARG:HH12	1.51	0.58
2:G:871:ARG:CZ	2:G:909:ASP:HB3	2.34	0.58
2:H:1200:ARG:N	2:H:1200:ARG:HD3	2.10	0.58
2:H:1374:VAL:CG2	2:H:1436:ARG:HE	2.17	0.58
2:H:486:ILE:HG23	2:H:490:LEU:HG	1.86	0.58
2:H:832:ILE:HA	2:H:868:LEU:HD11	1.85	0.58
2:I:1899:ALA:O	2:I:1903:VAL:HG23	2.03	0.58
2:I:796:TRP:CH2	2:I:805:MET:HE1	2.39	0.58
2:I:827:GLN:H	2:I:827:GLN:NE2	2.01	0.58
2:J:1093:ASP:O	2:J:1097:PHE:HD1	1.87	0.58
2:J:1305:LEU:HD12	2:J:1305:LEU:H	1.69	0.58
2:K:1246:LEU:HD11	2:K:1261:PHE:HE1	1.69	0.58
2:K:789:TYR:CE1	2:K:1097:PHE:HB3	2.39	0.58
2:L:1436:ARG:HH22	2:L:1602:LEU:HD13	1.67	0.58
2:L:1844:LEU:HB3	2:L:1850:VAL:HG21	1.86	0.58
2:L:610:PRO:O	2:L:613:VAL:HG12	2.04	0.58
1:A:535:TYR:CE2	1:A:610:GLU:HB3	2.38	0.57
1:A:746:PHE:HB3	3:A:1901:NAP:H52N	1.86	0.57
1:B:1118:GLU:OE2	1:D:1154:LEU:HD21	2.03	0.57
1:B:1142:LEU:N	1:B:1142:LEU:HD12	2.18	0.57
1:B:418:ILE:HA	1:B:462:THR:HB	1.85	0.57
1:D:533:SER:HB2	1:D:612:ILE:HB	1.86	0.57
1:E:1083:PRO:HD2	1:E:1084:GLU:OE2	2.03	0.57
1:F:1224:SER:HB2	1:F:1307:PHE:O	2.04	0.57
1:F:613:PRO:CG	1:F:633:THR:HG21	2.29	0.57
2:G:532:LYS:HD3	2:G:537:VAL:HG21	1.86	0.57
2:H:1380:TYR:CD2	2:H:1429:VAL:HG22	2.39	0.57
2:H:1669:ALA:HB3	2:H:1679:LEU:HB2	1.86	0.57
2:H:1067:LEU:HB2	4:H:2101:FMN:HM71	1.85	0.57
2:H:204:ILE:HG23	2:H:312:VAL:HG11	1.85	0.57
2:H:882:LYS:HB3	2:H:898:ARG:NH1	2.19	0.57
2:I:867:LYS:HD3	2:I:1065:CYS:SG	2.44	0.57
2:I:1445:THR:HG23	2:I:1498:PHE:HB2	1.86	0.57
2:I:272:PRO:O	2:I:276:LEU:HB2	2.03	0.57
2:G:1340:LYS:CE	2:I:376:ARG:HH22	2.17	0.57
2:I:485:ASP:O	2:I:488:PRO:HD2	2.02	0.57
2:I:170:TYR:CZ	2:I:507:PHE:HB3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2036:ILE:CG2	2:J:2037:GLY:N	2.66	0.57
2:J:824:THR:HB	2:J:829:LYS:HE3	1.86	0.57
2:K:1015:HIS:NE2	2:K:1019:LEU:HD11	2.19	0.57
2:K:1380:TYR:CD2	2:K:1429:VAL:HG22	2.39	0.57
2:K:2073:ASN:O	2:K:2076:LYS:HB3	2.04	0.57
2:K:616:ASP:OD1	2:K:616:ASP:N	2.36	0.57
2:L:1947:LYS:HG2	2:L:1993:PHE:CD1	2.39	0.57
1:A:1234:GLY:HA2	1:A:1238:ASP:HB2	1.85	0.57
1:A:767:HIS:CE1	1:F:767:HIS:CE1	2.92	0.57
1:B:1100:VAL:HG21	1:B:1150:ILE:CD1	2.34	0.57
1:B:586:GLN:C	1:E:538:ARG:NH2	2.57	0.57
1:B:883:LEU:HA	1:B:888:ILE:HD12	1.86	0.57
1:C:1547:ARG:HG2	1:C:1604:TYR:CD1	2.39	0.57
1:D:1213:VAL:HG13	1:D:1217:GLU:HB2	1.87	0.57
1:B:1250:LEU:HD22	1:D:1317:GLU:HB3	1.85	0.57
1:D:1446:GLU:O	1:D:1450:ILE:HG13	2.03	0.57
1:E:427:ARG:CG	1:E:427:ARG:NH1	2.53	0.57
1:F:1038:HIS:O	1:F:1048:SER:HA	2.04	0.57
1:F:397:ARG:CG	1:F:397:ARG:NH1	2.46	0.57
2:G:174:GLY:H	2:G:517:GLY:HA3	1.69	0.57
2:G:190:TYR:CD1	2:G:201:ILE:HD13	2.39	0.57
2:G:374:GLU:CA	2:G:377:HIS:HD2	2.16	0.57
2:G:789:TYR:HB3	2:G:790:PRO:HD3	1.85	0.57
2:H:1593:SER:OG	2:H:1596:PHE:HB2	2.04	0.57
2:H:618:VAL:O	2:H:622:MET:HG3	2.04	0.57
2:I:305:ALA:O	2:I:309:LYS:HD3	2.04	0.57
2:I:486:ILE:HG23	2:I:490:LEU:HG	1.86	0.57
2:J:1007:LEU:CD1	2:J:1007:LEU:H	2.15	0.57
2:J:1659:ILE:HG13	2:J:1664:ILE:HD11	1.86	0.57
2:J:1751:GLY:O	2:J:1755:LYS:HG2	2.03	0.57
2:J:204:ILE:HG23	2:J:312:VAL:HG11	1.85	0.57
2:J:26:LEU:O	2:J:32:GLU:HA	2.04	0.57
2:J:618:VAL:O	2:J:622:MET:HG3	2.05	0.57
2:J:917:ARG:HD3	2:J:937:ARG:NH2	2.19	0.57
2:K:1248:GLU:HA	2:K:1248:GLU:OE1	2.04	0.57
2:K:2062:THR:HG22	2:K:2064:SER:N	2.19	0.57
2:K:875:PHE:O	2:K:878:GLU:HB2	2.03	0.57
2:L:374:GLU:CA	2:L:377:HIS:CD2	2.77	0.57
2:L:582:LYS:HG3	2:L:1110:VAL:HG11	1.87	0.57
2:L:843:TRP:C	2:L:843:TRP:CD1	2.77	0.57
2:L:871:ARG:CZ	2:L:909:ASP:HB3	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1330:GLU:HG2	1:A:1333:ARG:NH1	2.19	0.57
1:A:1337:PRO:HA	1:A:1340:MET:HG3	1.87	0.57
1:B:828:TRP:HE1	1:B:838:THR:HA	1.69	0.57
1:C:427:ARG:HH11	1:C:492:ILE:HG12	1.69	0.57
1:C:562:SER:CB	1:D:551:LEU:HD21	2.32	0.57
1:D:1336:GLU:O	1:D:1340:MET:HG2	2.03	0.57
1:D:1547:ARG:HG2	1:D:1604:TYR:CD1	2.40	0.57
1:D:869:ARG:O	1:D:903:GLY:HA3	2.04	0.57
1:E:1448:ALA:HA	1:E:1451:LYS:CE	2.32	0.57
1:E:696:GLN:HG3	1:E:697:GLY:N	2.18	0.57
1:F:948:HIS:O	1:F:952:TYR:HD2	1.86	0.57
2:G:1067:LEU:HB2	4:G:2101:FMN:HM71	1.85	0.57
2:G:756:ASP:HA	2:G:843:TRP:HH2	1.69	0.57
2:H:915:PHE:HB2	2:H:1030:PHE:CD1	2.39	0.57
2:H:1659:ILE:HG13	2:H:1664:ILE:HD11	1.86	0.57
2:H:2054:TYR:HA	2:H:2057:GLU:OE1	2.03	0.57
2:H:193:TYR:CD1	2:H:263:ILE:HD13	2.39	0.57
2:H:606:ALA:HB2	2:H:811:MET:HG3	1.86	0.57
2:I:596:ARG:HH22	2:I:1113:ILE:CD1	2.17	0.57
2:I:1265:TYR:O	2:I:1267:PRO:HD3	2.05	0.57
2:I:1436:ARG:NH2	2:I:1602:LEU:CD1	2.67	0.57
2:I:1669:ALA:HB3	2:I:1679:LEU:HB2	1.86	0.57
2:I:918:ASN:HB3	2:I:924:VAL:CG2	2.34	0.57
2:J:580:LEU:HD11	2:J:1098:LEU:HB3	1.85	0.57
2:J:789:TYR:CE1	2:J:1097:PHE:HB3	2.39	0.57
2:K:1142:ILE:HG13	2:K:1209:PRO:CG	2.33	0.57
2:K:1709:TYR:C	2:K:1709:TYR:HD2	2.08	0.57
2:K:197:VAL:HG21	2:K:263:ILE:HD11	1.85	0.57
2:L:1246:LEU:HD11	2:L:1261:PHE:HE1	1.70	0.57
2:L:1380:TYR:CD2	2:L:1429:VAL:HG22	2.39	0.57
2:L:1880:ASN:HB3	2:L:1881:TYR:CD1	2.39	0.57
2:L:663:ILE:HG21	3:L:2102:NAP:H1D	1.86	0.57
1:A:1323:ALA:HB1	1:A:1351:PHE:HE2	1.68	0.57
1:D:967:PHE:CE2	1:D:1662:GLN:HB2	2.40	0.57
1:E:506:ILE:HD13	1:E:922:ILE:HG22	1.85	0.57
1:E:552:ILE:HG21	1:E:566:PHE:CZ	2.40	0.57
1:F:405:TRP:CZ3	1:F:1609:SER:HB3	2.39	0.57
1:F:40:ARG:HH21	1:F:72:THR:HG22	1.69	0.57
1:F:418:ILE:HA	1:F:462:THR:HB	1.85	0.57
2:H:1334:ALA:HA	2:H:1341:ASP:HB2	1.87	0.57
2:H:1351:VAL:HG23	2:H:1584:SER:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:610:PRO:O	2:H:613:VAL:HG12	2.03	0.57
2:H:616:ASP:N	2:H:616:ASP:OD1	2.37	0.57
2:J:1266:HIS:NE2	2:J:1275:ARG:HD2	2.19	0.57
2:J:374:GLU:CA	2:J:377:HIS:HD2	2.15	0.57
2:J:894:GLU:O	2:J:897:LYS:HG2	2.03	0.57
2:K:1120:ILE:CD1	2:K:1173:HIS:CE1	2.86	0.57
2:K:152:LYS:HB2	2:K:154:TYR:CE1	2.40	0.57
2:K:1897:GLU:HG2	2:K:1901:GLN:HE21	1.68	0.57
2:L:1674:THR:HB	2:L:1676:GLU:HG3	1.86	0.57
2:L:298:ALA:CB	2:L:304:PHE:HA	2.34	0.57
2:L:361:VAL:O	2:L:365:ILE:HG13	2.03	0.57
2:L:524:ILE:HA	2:L:527:LEU:HD12	1.86	0.57
2:L:713:HIS:CD2	2:L:740:ILE:HD13	2.39	0.57
1:A:1421:ARG:HD2	1:A:1489:PHE:O	2.05	0.57
1:A:433:CYS:O	1:A:437:MET:HG3	2.04	0.57
1:B:1307:PHE:HA	1:B:1568:ALA:HB2	1.87	0.57
1:C:1510:TRP:CZ3	1:C:1642:LEU:HA	2.40	0.57
1:E:350:ASP:HB3	1:E:353:ALA:HB2	1.85	0.57
1:E:524:LYS:O	1:E:527:ALA:N	2.37	0.57
1:E:948:HIS:O	1:E:952:TYR:HD2	1.87	0.57
1:E:959:PRO:HB3	2:K:972:SER:HA	1.87	0.57
1:C:1148:LEU:HD21	1:F:1150:ILE:HG12	1.85	0.57
2:G:1171:TRP:CD1	2:G:1172:ARG:N	2.72	0.57
2:G:1383:VAL:HG23	2:G:1428:TYR:CE1	2.40	0.57
2:G:388:ASN:HD22	2:G:388:ASN:C	2.06	0.57
2:H:1538:ASN:HB3	2:H:1541:ILE:HG22	1.86	0.57
2:I:361:VAL:O	2:I:365:ILE:HG13	2.05	0.57
2:J:1203:TYR:HB3	2:J:1220:ARG:HB2	1.87	0.57
2:J:706:ILE:HG22	2:J:707:GLN:HG2	1.87	0.57
2:J:914:TRP:CD1	2:J:916:GLY:HA3	2.40	0.57
2:K:745:GLY:HA3	2:K:757:PHE:HB3	1.85	0.57
2:K:825:SER:HB2	2:K:1053:ILE:HG13	1.86	0.57
2:K:834:ASP:O	2:K:836:PRO:HD3	2.04	0.57
2:K:978:SER:O	2:K:981:GLN:HG2	2.04	0.57
2:L:197:VAL:HG12	2:L:201:ILE:HG13	1.86	0.57
1:A:501:ASP:OD2	1:A:503:ARG:HB2	2.03	0.57
1:C:1267:LEU:HD11	1:C:1303:LEU:HD12	1.85	0.57
1:C:42:GLU:OE1	2:I:1688:PRO:HB3	2.04	0.57
1:D:452:ILE:HD12	1:D:467:LYS:HA	1.87	0.57
1:F:612:ILE:HG23	1:F:628:TYR:HD2	1.68	0.57
2:H:756:ASP:HA	2:H:843:TRP:HH2	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:834:ASP:O	2:H:836:PRO:HD3	2.04	0.57
2:I:616:ASP:N	2:I:616:ASP:OD1	2.38	0.57
2:I:794:GLY:O	2:I:804:PRO:HA	2.04	0.57
2:I:894:GLU:O	2:I:897:LYS:HG2	2.05	0.57
2:J:1171:TRP:CZ3	2:J:1236:LEU:HB2	2.40	0.57
2:J:2054:TYR:HA	2:J:2057:GLU:OE1	2.04	0.57
2:J:875:PHE:O	2:J:878:GLU:HB2	2.04	0.57
2:K:1090:ILE:O	2:K:1094:HIS:CD2	2.57	0.57
2:K:209:GLN:O	2:K:213:ARG:HG3	2.05	0.57
2:L:1370:LEU:HA	2:L:1435:TYR:CE2	2.40	0.57
2:L:261:TYR:CD1	2:L:295:ILE:HG12	2.39	0.57
2:L:902:ILE:O	2:L:906:LEU:HB2	2.03	0.57
1:A:557:ARG:O	1:F:557:ARG:HD2	2.05	0.57
1:B:963:LEU:HD23	1:B:1023:GLU:HB3	1.86	0.57
1:C:1107:GLU:HG3	1:C:1108:PRO:CD	2.31	0.57
1:C:569:LEU:HD22	1:D:544:ASP:HB3	1.87	0.57
1:B:1386:THR:HB	1:D:1269:SER:O	2.04	0.57
1:D:1448:ALA:CA	1:D:1451:LYS:HE3	2.32	0.57
1:E:1223:GLY:CA	1:E:1276:PRO:HD2	2.35	0.57
1:F:501:ASP:OD2	1:F:503:ARG:HB2	2.04	0.57
2:G:1342:PHE:HE2	2:G:1391:VAL:CG2	2.18	0.57
2:G:1481:ILE:HD12	2:G:1515:LEU:HD23	1.87	0.57
2:H:1009:ASN:O	2:H:1013:VAL:HG23	2.04	0.57
2:H:119:VAL:HG21	2:H:140:TYR:CD2	2.40	0.57
2:H:47:GLN:HG3	2:I:23:PRO:HD2	1.85	0.57
2:H:532:LYS:HD3	2:H:537:VAL:HG21	1.86	0.57
2:H:731:ALA:HA	2:H:739:ILE:HD13	1.87	0.57
2:H:871:ARG:CZ	2:H:909:ASP:HB3	2.35	0.57
2:H:911:GLN:HG3	2:H:1064:THR:HA	1.87	0.57
2:I:942:MET:HE2	2:I:955:LEU:HD13	1.86	0.57
2:J:1374:VAL:CG2	2:J:1436:ARG:HE	2.18	0.57
2:J:190:TYR:CD1	2:J:201:ILE:HD13	2.39	0.57
2:K:1317:ASN:HB3	2:K:1320:ALA:HB3	1.86	0.57
2:K:1701:GLU:H	2:K:1704:MET:HE3	1.68	0.57
2:K:1899:ALA:O	2:K:1903:VAL:HG23	2.03	0.57
2:K:1944:ASN:HA	2:K:1993:PHE:CD2	2.40	0.57
2:K:221:TYR:CE2	2:K:225:LEU:HD22	2.39	0.57
2:K:580:LEU:HD21	2:K:1095:ILE:HA	1.87	0.57
2:L:1393:ASP:HB3	2:L:1395:LEU:HD21	1.87	0.57
2:L:2059:HIS:HB2	2:L:2067:ILE:HG21	1.86	0.57
1:A:684:THR:HG21	1:A:691:VAL:HG11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:875:GLU:O	1:A:878:PHE:HB3	2.04	0.57
1:A:532:ILE:HG22	1:A:907:PHE:CG	2.40	0.57
1:C:1330:GLU:HG2	1:C:1333:ARG:NH1	2.20	0.57
1:E:1014:MET:O	1:E:1590:ARG:NH2	2.35	0.57
1:E:31:THR:HG23	2:K:2040:ILE:HG21	1.86	0.57
2:H:1194:ARG:NH1	2:H:1194:ARG:CG	2.54	0.57
2:H:138:ARG:HB3	2:H:192:THR:HG23	1.87	0.57
2:H:1564:SER:HB2	2:H:1653:LEU:H	1.69	0.57
2:H:170:TYR:CZ	2:H:507:PHE:HB3	2.39	0.57
2:H:2073:ASN:O	2:H:2076:LYS:HB3	2.04	0.57
2:J:1015:HIS:NE2	2:J:1019:LEU:HD11	2.20	0.57
2:J:120:HIS:HD2	2:J:137:VAL:HG21	1.69	0.57
2:J:2059:HIS:HB2	2:J:2067:ILE:HG21	1.87	0.57
2:K:1009:ASN:O	2:K:1013:VAL:HG23	2.05	0.57
2:K:1176:PHE:CE1	2:K:1192:LEU:HD13	2.40	0.57
2:L:618:VAL:O	2:L:622:MET:HG3	2.05	0.57
2:L:70:SER:HB2	2:L:74:GLU:OE2	2.04	0.57
1:A:551:LEU:HD23	1:A:551:LEU:C	2.25	0.57
1:A:948:HIS:O	1:A:952:TYR:HD2	1.88	0.57
1:B:847:THR:OG1	1:B:876:MET:HG3	2.04	0.57
1:C:1032:MET:HE3	1:C:1165:PRO:HB3	1.86	0.57
1:D:948:HIS:O	1:D:952:TYR:HD2	1.88	0.57
1:E:1260:ALA:O	1:E:1264:MET:HG3	2.05	0.57
1:E:1307:PHE:HB3	1:E:1357:CYS:HB3	1.85	0.57
1:E:469:LEU:O	1:E:472:GLN:HB3	2.05	0.57
1:E:746:PHE:CE1	1:E:800:PRO:HG3	2.40	0.57
1:F:628:TYR:OH	1:F:630:LYS:HE2	2.05	0.57
1:F:399:TYR:OH	1:F:692:THR:HG23	2.04	0.57
2:G:915:PHE:HB2	2:G:1030:PHE:CD1	2.40	0.57
2:G:1880:ASN:HB3	2:G:1881:TYR:CD1	2.40	0.57
2:H:1944:ASN:HA	2:H:1993:PHE:CD2	2.40	0.57
1:B:9:LEU:HB2	2:H:2050:ILE:HD11	1.86	0.57
2:H:349:PRO:O	2:H:392:THR:HG22	2.05	0.57
2:H:670:MET:HB2	2:H:674:ILE:HD12	1.86	0.57
2:H:843:TRP:CD1	2:H:843:TRP:C	2.78	0.57
2:I:1334:ALA:HA	2:I:1341:ASP:HB2	1.87	0.57
2:I:376:ARG:CB	2:I:394:PRO:HG2	2.33	0.57
2:I:825:SER:HB2	2:I:1053:ILE:HG13	1.86	0.57
2:I:882:LYS:HB3	2:I:898:ARG:HH12	1.70	0.57
2:J:1142:ILE:HG13	2:J:1209:PRO:CG	2.35	0.57
2:J:170:TYR:CZ	2:J:507:PHE:HB3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1804:GLN:HB3	2:J:1861:PHE:CE1	2.39	0.57
2:K:1593:SER:OG	2:K:1596:PHE:HB2	2.05	0.57
2:K:250:PHE:CB	2:K:251:PRO:HD3	2.35	0.57
2:K:396:ILE:H	2:K:396:ILE:HD12	1.68	0.57
2:L:1324:PHE:HA	2:L:1583:VAL:HG11	1.86	0.57
2:L:1913:TRP:HZ3	2:L:1938:THR:HG21	1.70	0.57
1:B:15:VAL:HG11	2:H:2022:LEU:HD21	1.87	0.57
1:B:1207:TYR:CZ	1:B:1682:LYS:HD2	2.39	0.57
1:B:94:PRO:HD3	2:H:1559:ASN:ND2	2.19	0.57
1:C:1514:ILE:O	1:C:1547:ARG:NH1	2.38	0.57
1:C:869:ARG:O	1:C:903:GLY:HA3	2.05	0.57
1:E:1425:LEU:HD21	1:E:1429:ARG:NH2	2.19	0.57
1:E:965:TYR:CZ	1:E:1199:LEU:CD2	2.78	0.57
1:F:1547:ARG:HG2	1:F:1604:TYR:CD1	2.40	0.57
2:G:1405:ILE:HA	2:G:1445:THR:OG1	2.04	0.57
2:G:1709:TYR:C	2:G:1709:TYR:CD2	2.77	0.57
2:H:1231:THR:CG2	2:H:1595:VAL:HG11	2.35	0.57
2:H:1411:LYS:HE3	2:H:1441:ASP:OD2	2.05	0.57
2:H:1481:ILE:HD12	2:H:1515:LEU:HD23	1.86	0.57
2:H:348:THR:HB	2:H:349:PRO:CD	2.35	0.57
2:H:462:ALA:HB2	2:H:481:LEU:HB2	1.87	0.57
2:H:752:HIS:NE2	2:H:856:THR:HG22	2.19	0.57
2:H:937:ARG:NE	2:H:941:LEU:HD11	2.18	0.57
2:I:460:ILE:HD13	2:I:487:ILE:HD11	1.87	0.57
2:J:1517:LEU:HG	2:J:1523:ILE:HD11	1.87	0.57
2:J:1574:PRO:HD3	2:J:1611:TYR:CE2	2.40	0.57
2:J:663:ILE:HG21	3:J:2102:NAP:H1D	1.86	0.57
1:D:962:ASN:HB3	2:J:969:ARG:CD	2.35	0.57
2:K:1048:TRP:CD2	2:K:1049:GLN:HG2	2.40	0.57
2:K:1807:GLN:HB2	2:K:1808:PRO:HD3	1.87	0.57
2:K:935:VAL:HG11	2:K:997:LEU:HD21	1.86	0.57
2:L:834:ASP:O	2:L:836:PRO:HD3	2.05	0.57
1:B:998:GLY:HA3	1:B:1361:VAL:CG1	2.26	0.56
1:C:1005:TRP:NE1	1:C:1561:LEU:CD2	2.67	0.56
1:C:636:TYR:CD1	1:C:888:ILE:HD11	2.40	0.56
1:E:418:ILE:HA	1:E:462:THR:HB	1.86	0.56
1:F:1606:VAL:O	1:F:1608:PRO:HD3	2.05	0.56
1:F:799:LEU:HD12	1:F:821:LEU:HB3	1.87	0.56
2:G:167:VAL:HG23	2:G:169:ILE:HG13	1.88	0.56
2:H:485:ASP:O	2:H:488:PRO:HD2	2.05	0.56
2:H:918:ASN:HB3	2:H:924:VAL:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:911:GLN:HG3	2:I:1064:THR:HA	1.85	0.56
2:I:1114:GLU:HB3	2:I:1169:TYR:HB3	1.85	0.56
2:I:608:MET:HE3	4:I:2101:FMN:C8	2.35	0.56
2:I:298:ALA:HB2	2:I:304:PHE:HA	1.87	0.56
2:J:1445:THR:HG23	2:J:1498:PHE:HB2	1.87	0.56
2:J:524:ILE:HA	2:J:527:LEU:HD12	1.87	0.56
2:J:610:PRO:HD2	4:J:2101:FMN:C6	2.24	0.56
2:K:1157:VAL:HG22	2:K:1198:PRO:HD2	1.87	0.56
2:K:1309:PHE:CE2	2:K:1360:PRO:HA	2.40	0.56
2:K:1370:LEU:HA	2:K:1435:TYR:HE2	1.69	0.56
2:K:2054:TYR:HA	2:K:2057:GLU:OE1	2.05	0.56
2:K:350:MET:HG3	2:K:435:ILE:CG2	2.34	0.56
2:K:409:LYS:HB3	2:K:428:PHE:CZ	2.40	0.56
2:L:1709:TYR:C	2:L:1709:TYR:CD2	2.78	0.56
2:L:485:ASP:O	2:L:488:PRO:HD2	2.04	0.56
2:L:635:TYR:CB	2:L:641:MET:HG3	2.34	0.56
2:L:917:ARG:HD2	2:L:917:ARG:N	2.19	0.56
1:A:1307:PHE:HA	1:A:1568:ALA:HB2	1.87	0.56
1:A:1640:LYS:HG3	1:A:1641:TYR:N	2.20	0.56
1:C:350:ASP:HB3	1:C:353:ALA:HB2	1.87	0.56
1:D:1107:GLU:HG3	1:D:1108:PRO:CD	2.33	0.56
1:D:613:PRO:C	1:D:615:LEU:H	2.07	0.56
1:E:40:ARG:NH2	1:E:72:THR:HG22	2.19	0.56
1:E:849:GLY:HA3	1:E:873:GLN:CG	2.34	0.56
1:C:1427:LEU:HD11	1:F:1435:TRP:HD1	1.69	0.56
1:F:714:PHE:CE1	1:F:725:LEU:HD12	2.40	0.56
2:G:305:ALA:O	2:G:309:LYS:HD3	2.04	0.56
2:G:608:MET:HE3	4:G:2101:FMN:C8	2.35	0.56
2:H:930:THR:HA	2:H:1007:LEU:HA	1.85	0.56
2:H:1903:VAL:O	2:H:1907:ILE:HG13	2.04	0.56
1:B:22:PHE:HE2	2:H:2017:PHE:CG	2.24	0.56
2:H:83:VAL:O	2:H:87:VAL:HG23	2.05	0.56
2:I:44:GLN:HG3	2:I:101:VAL:HG21	1.87	0.56
2:J:915:PHE:HB2	2:J:1030:PHE:CD1	2.40	0.56
2:K:388:ASN:C	2:K:388:ASN:HD22	2.09	0.56
2:K:663:ILE:HG21	3:K:2102:NAP:H1D	1.86	0.56
2:K:750:GLY:O	2:K:865:ILE:HA	2.06	0.56
2:L:1764:MET:HG3	2:L:1781:PHE:CE1	2.40	0.56
2:L:204:ILE:HG23	2:L:312:VAL:HG11	1.86	0.56
2:L:462:ALA:HB2	2:L:481:LEU:HB2	1.88	0.56
2:L:706:ILE:HG22	2:L:707:GLN:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1431:GLN:HG2	1:D:1431:GLN:OE1	2.04	0.56
1:B:904:GLY:HA2	1:B:906:GLN:OE1	2.06	0.56
1:B:962:ASN:HB3	2:H:969:ARG:HD2	1.86	0.56
1:C:868:VAL:HG11	1:C:908:ILE:CD1	2.34	0.56
1:C:849:GLY:HA3	1:C:873:GLN:CG	2.36	0.56
1:C:961:ALA:CB	1:C:1022:LEU:HD12	2.35	0.56
1:D:1168:TRP:NE1	1:D:1173:TYR:HE1	2.03	0.56
1:D:1330:GLU:HG2	1:D:1333:ARG:NH1	2.20	0.56
1:D:1443:LEU:HD11	1:D:1470:ARG:HD2	1.87	0.56
1:D:746:PHE:HB3	3:D:1901:NAP:H52N	1.87	0.56
1:F:1672:GLY:HA3	1:F:1678:LEU:CD2	2.31	0.56
1:F:746:PHE:HB3	3:F:1901:NAP:H52N	1.87	0.56
1:F:469:LEU:O	1:F:472:GLN:HB3	2.05	0.56
1:F:847:THR:OG1	1:F:876:MET:HG3	2.06	0.56
2:G:1171:TRP:CE3	2:G:1236:LEU:HD22	2.39	0.56
2:G:462:ALA:H	2:G:483:ASP:HA	1.69	0.56
2:G:768:ILE:O	2:G:774:ILE:HD12	2.05	0.56
2:G:785:SER:HA	2:G:788:THR:HB	1.87	0.56
2:H:1171:TRP:CE3	2:H:1236:LEU:HD22	2.39	0.56
2:H:1818:PHE:HE2	2:H:1822:ARG:HH12	1.53	0.56
2:H:43:PHE:CE2	2:I:22:ARG:CB	2.87	0.56
2:I:1203:TYR:HB3	2:I:1220:ARG:HB2	1.87	0.56
2:I:1594:ARG:NH1	2:I:1594:ARG:CG	2.60	0.56
2:I:635:TYR:CB	2:I:641:MET:HG3	2.34	0.56
2:I:606:ALA:HB2	2:I:811:MET:HG3	1.85	0.56
2:J:1334:ALA:HA	2:J:1341:ASP:HB2	1.87	0.56
2:J:378:ILE:HD11	2:J:398:LEU:HA	1.86	0.56
2:J:612:THR:O	2:J:612:THR:HG22	2.05	0.56
2:J:613:VAL:CG1	2:J:614:PRO:HD3	2.35	0.56
2:K:1804:GLN:HB3	2:K:1861:PHE:CE1	2.40	0.56
2:K:204:ILE:HG21	2:K:312:VAL:HG21	1.87	0.56
2:K:882:LYS:HB3	2:K:898:ARG:NH1	2.21	0.56
2:L:590:VAL:HG23	2:L:1091:HIS:CD2	2.40	0.56
2:L:380:ILE:O	2:L:380:ILE:HG13	2.05	0.56
2:L:756:ASP:HA	2:L:843:TRP:HH2	1.70	0.56
1:B:422:LEU:HD13	1:B:429:ILE:HG12	1.87	0.56
1:D:24:MET:HB3	2:J:2043:VAL:HG12	1.86	0.56
1:D:905:LEU:HD22	1:D:911:LEU:CD2	2.35	0.56
1:A:548:VAL:HG23	1:F:569:LEU:HD13	1.86	0.56
2:G:911:GLN:HG3	2:G:1064:THR:HA	1.87	0.56
2:G:1878:ARG:HE	2:G:1986:PRO:HG3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1991:ARG:HG3	2:G:1996:ILE:HG12	1.88	0.56
2:G:2062:THR:HG22	2:G:2063:GLY:N	2.20	0.56
2:G:349:PRO:O	2:G:392:THR:HG22	2.04	0.56
2:H:1350:ILE:O	2:H:1354:TRP:HB2	2.05	0.56
2:H:1873:ARG:NH1	2:H:2002:ASP:HB3	2.20	0.56
2:H:1963:GLU:HA	2:H:1966:ARG:HB3	1.88	0.56
2:H:713:HIS:CD2	2:H:740:ILE:HD13	2.40	0.56
2:I:1659:ILE:HG13	2:I:1664:ILE:HD11	1.86	0.56
2:I:937:ARG:NE	2:I:941:LEU:HD11	2.20	0.56
2:J:486:ILE:HG23	2:J:490:LEU:HG	1.87	0.56
2:J:859:SER:HB3	2:J:863:GLU:HG3	1.88	0.56
2:K:1873:ARG:NH1	2:K:2002:ASP:HB3	2.20	0.56
2:K:268:LEU:HD12	2:K:275:LEU:HD11	1.87	0.56
2:K:871:ARG:CZ	2:K:909:ASP:HB3	2.35	0.56
2:L:196:PHE:HD2	2:L:196:PHE:H	1.53	0.56
2:L:1944:ASN:HA	2:L:1993:PHE:HD2	1.69	0.56
2:L:290:VAL:HG13	2:L:314:LEU:HD23	1.87	0.56
2:L:57:PRO:CG	2:L:68:GLU:HG3	2.35	0.56
2:L:731:ALA:HA	2:L:739:ILE:HD13	1.88	0.56
1:A:911:LEU:O	1:A:915:MET:HG3	2.06	0.56
1:B:1068:TYR:O	1:B:1072:ILE:HG13	2.06	0.56
1:B:408:GLN:HG2	1:B:1610:ARG:NH1	2.19	0.56
1:B:636:TYR:CZ	1:B:640:LEU:HD22	2.40	0.56
1:B:862:GLY:O	1:B:865:LYS:HB2	2.06	0.56
1:C:427:ARG:CG	1:C:427:ARG:NH1	2.58	0.56
1:E:1448:ALA:CA	1:E:1451:LYS:HE3	2.34	0.56
1:E:532:ILE:HG22	1:E:907:PHE:CB	2.36	0.56
1:F:1307:PHE:HB3	1:F:1357:CYS:CB	2.36	0.56
2:G:1610:MET:CE	2:G:1610:MET:HA	2.34	0.56
2:G:1607:THR:HB	2:G:1643:VAL:O	2.05	0.56
2:G:613:VAL:HG13	2:G:614:PRO:CD	2.35	0.56
2:G:843:TRP:CD1	2:G:843:TRP:C	2.77	0.56
2:H:1207:THR:O	2:H:1215:THR:HA	2.04	0.56
2:H:1203:TYR:HB3	2:H:1220:ARG:HB2	1.88	0.56
2:H:1566:LYS:O	2:H:1568:PRO:HD3	2.05	0.56
2:H:372:LEU:HD11	2:H:397:SER:HB2	1.87	0.56
2:H:635:TYR:CB	2:H:641:MET:HG3	2.35	0.56
2:H:952:ASP:OD1	2:H:953:PRO:HD2	2.05	0.56
2:I:209:GLN:O	2:I:213:ARG:HG3	2.05	0.56
2:J:731:ALA:HA	2:J:739:ILE:HD13	1.88	0.56
2:K:1171:TRP:CZ3	2:K:1236:LEU:HB2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1880:ASN:HB3	2:K:1881:TYR:CD1	2.40	0.56
2:K:378:ILE:HD11	2:K:398:LEU:HA	1.88	0.56
2:K:451:ILE:O	2:K:455:VAL:HG23	2.05	0.56
2:K:524:ILE:HA	2:K:527:LEU:HD12	1.86	0.56
2:K:590:VAL:HG23	2:K:1091:HIS:CD2	2.41	0.56
2:K:700:GLU:CD	2:K:700:GLU:H	2.08	0.56
2:K:992:ALA:O	2:K:995:ARG:HB3	2.05	0.56
2:L:1207:THR:O	2:L:1215:THR:HA	2.05	0.56
2:L:1554:PRO:HA	2:L:1659:ILE:HG12	1.88	0.56
1:A:1132:ILE:HD12	1:A:1137:GLN:HB2	1.87	0.56
1:A:1386:THR:HG22	1:A:1629:GLN:HE21	1.70	0.56
1:A:40:ARG:NH2	1:A:72:THR:HG22	2.20	0.56
1:A:843:VAL:O	1:A:843:VAL:HG22	2.05	0.56
1:C:408:GLN:HG2	1:C:1610:ARG:NH1	2.20	0.56
1:C:1534:GLU:HG2	1:C:1625:PHE:CE1	2.40	0.56
1:D:1565:PRO:O	1:D:1567:GLY:N	2.39	0.56
1:E:1004:PRO:HD3	1:E:1572:TRP:CH2	2.40	0.56
1:E:998:GLY:CA	1:E:1361:VAL:HG13	2.27	0.56
2:G:1701:GLU:H	2:G:1704:MET:HE3	1.68	0.56
2:G:1897:GLU:HG2	2:G:1901:GLN:NE2	2.20	0.56
2:G:382:LEU:HB3	2:G:499:VAL:HB	1.87	0.56
2:H:1246:LEU:HD11	2:H:1261:PHE:HE1	1.70	0.56
2:H:1607:THR:HB	2:H:1643:VAL:O	2.05	0.56
2:H:221:TYR:CE2	2:H:225:LEU:HD22	2.40	0.56
2:I:1171:TRP:CE3	2:I:1236:LEU:HD22	2.40	0.56
2:I:876:TRP:CD1	2:I:876:TRP:C	2.79	0.56
2:J:1083:ILE:O	2:J:1086:ILE:HG13	2.05	0.56
2:J:1764:MET:HG3	2:J:1781:PHE:CE1	2.39	0.56
2:J:611:THR:HG21	2:J:817:MET:HE2	1.86	0.56
2:J:663:ILE:CD1	2:J:663:ILE:H	2.12	0.56
2:J:855:ILE:HB	2:J:869:ALA:HB2	1.86	0.56
2:J:871:ARG:CZ	2:J:909:ASP:HB3	2.36	0.56
2:K:460:ILE:HD13	2:K:487:ILE:HD11	1.85	0.56
2:K:752:HIS:CE1	2:K:856:THR:HG21	2.40	0.56
2:L:1053:ILE:HD11	2:L:1061:VAL:HG13	1.86	0.56
2:L:789:TYR:CE1	2:L:1097:PHE:HB3	2.40	0.56
2:L:1266:HIS:NE2	2:L:1275:ARG:HD2	2.20	0.56
2:L:653:PRO:O	2:L:656:ARG:HB2	2.05	0.56
2:L:699:ILE:CD1	2:L:699:ILE:H	2.19	0.56
1:A:1307:PHE:HB3	1:A:1357:CYS:HB3	1.86	0.56
1:B:470:GLY:O	1:B:474:ILE:HG13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1510:TRP:HZ3	1:C:1642:LEU:HA	1.70	0.56
1:C:504:GLY:O	1:C:926:SER:HB2	2.06	0.56
1:D:571:LYS:O	1:D:575:ARG:HG2	2.05	0.56
1:E:911:LEU:O	1:E:915:MET:HG3	2.06	0.56
1:F:888:ILE:HA	1:F:891:LEU:HD12	1.87	0.56
2:G:1090:ILE:O	2:G:1094:HIS:CD2	2.58	0.56
2:G:1207:THR:O	2:G:1215:THR:HA	2.05	0.56
2:G:1265:TYR:O	2:G:1267:PRO:HD3	2.05	0.56
2:G:1637:VAL:HG11	2:G:1679:LEU:HD22	1.87	0.56
2:G:272:PRO:HD3	2:G:301:TRP:CE2	2.40	0.56
2:G:616:ASP:N	2:G:616:ASP:OD1	2.37	0.56
2:H:1880:ASN:HB3	2:H:1881:TYR:CD1	2.40	0.56
1:B:20:TYR:CE2	2:H:2062:THR:HG23	2.41	0.56
2:H:859:SER:CB	2:H:863:GLU:HG3	2.36	0.56
2:I:1094:HIS:O	2:I:1098:LEU:HB2	2.06	0.56
2:I:1607:THR:HB	2:I:1643:VAL:O	2.06	0.56
2:I:261:TYR:CD1	2:I:295:ILE:HG12	2.41	0.56
2:I:440:HIS:HD2	2:I:497:ASP:O	1.87	0.56
2:I:532:LYS:HD3	2:I:537:VAL:HG21	1.88	0.56
2:I:735:PRO:HA	2:I:773:ASN:OD1	2.06	0.56
2:J:138:ARG:HB2	2:J:192:THR:HA	1.87	0.56
2:J:159:PHE:HA	2:J:162:ALA:HB3	1.87	0.56
1:D:88:ILE:HG21	2:J:1821:MET:CE	2.35	0.56
2:J:1897:GLU:HG2	2:J:1901:GLN:NE2	2.21	0.56
2:J:861:MET:HB2	2:J:863:GLU:HG2	1.87	0.56
2:K:1194:ARG:NH1	2:K:1194:ARG:CG	2.52	0.56
2:K:290:VAL:HG13	2:K:314:LEU:HD23	1.88	0.56
2:K:843:TRP:C	2:K:843:TRP:CD1	2.79	0.56
2:L:1818:PHE:HE2	2:L:1822:ARG:HH12	1.52	0.56
2:L:462:ALA:H	2:L:483:ASP:HA	1.69	0.56
1:A:1534:GLU:HG2	1:A:1625:PHE:CE1	2.40	0.56
1:A:12:THR:O	1:A:16:GLU:HG2	2.06	0.56
1:A:714:PHE:CE1	1:A:725:LEU:HD12	2.41	0.56
1:A:755:GLU:HB2	1:A:757:ASP:HB2	1.88	0.56
1:B:1254:PHE:HB2	1:B:1257:THR:OG1	2.06	0.56
1:B:1443:LEU:HD22	1:B:1474:ILE:HD11	1.88	0.56
1:B:948:HIS:O	1:B:952:TYR:HD2	1.89	0.56
1:C:498:THR:HG21	1:C:858:LEU:CA	2.31	0.56
1:C:570:TYR:CE1	1:C:574:ILE:HD11	2.41	0.56
1:C:673:LEU:O	1:C:678:ALA:HB3	2.06	0.56
1:E:1207:TYR:CE2	1:E:1682:LYS:HD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1100:VAL:HG21	1:F:1150:ILE:CD1	2.36	0.56
2:H:1142:ILE:HG13	2:H:1209:PRO:CG	2.35	0.56
2:H:1678:VAL:O	2:H:1679:LEU:HD23	2.06	0.56
2:H:170:TYR:CE2	2:H:507:PHE:HB3	2.40	0.56
2:H:1764:MET:HB3	2:H:1780:ILE:CD1	2.35	0.56
2:H:197:VAL:HG21	2:H:263:ILE:HD11	1.87	0.56
2:H:613:VAL:HG23	2:H:635:TYR:CE1	2.41	0.56
2:I:1142:ILE:HG13	2:I:1209:PRO:CG	2.36	0.56
2:I:1729:ASN:O	2:I:1757:ILE:HG23	2.06	0.56
2:I:2054:TYR:HA	2:I:2057:GLU:OE1	2.05	0.56
2:I:2073:ASN:O	2:I:2076:LYS:HB3	2.05	0.56
2:I:350:MET:HG3	2:I:435:ILE:HB	1.88	0.56
2:I:611:THR:HG21	2:I:817:MET:HE2	1.88	0.56
2:I:768:ILE:O	2:I:774:ILE:HD12	2.05	0.56
2:J:1342:PHE:HE2	2:J:1391:VAL:CG2	2.19	0.56
2:J:1420:LYS:HG2	2:J:1425:PRO:CA	2.35	0.56
2:J:489:GLU:O	2:J:493:MET:HG3	2.05	0.56
2:K:35:PHE:HZ	2:K:104:LEU:HB3	1.70	0.56
2:K:1181:PHE:CD1	2:K:1191:PRO:HD2	2.40	0.56
2:L:1176:PHE:CE1	2:L:1192:LEU:HD13	2.41	0.56
2:L:1421:ARG:HG2	2:L:1421:ARG:O	2.04	0.56
2:L:992:ALA:O	2:L:995:ARG:HB3	2.05	0.56
1:A:989:ASN:H	1:A:1491:ASN:ND2	1.94	0.56
1:B:983:GLN:HB3	1:B:1418:ILE:HG21	1.86	0.56
1:C:1207:TYR:CZ	1:C:1682:LYS:HD2	2.41	0.56
1:C:1337:PRO:HA	1:C:1340:MET:HG3	1.88	0.56
1:C:1386:THR:HB	1:F:1269:SER:O	2.05	0.56
1:C:1420:TYR:OH	1:F:1473:HIS:HE1	1.88	0.56
1:C:847:THR:OG1	1:C:876:MET:HG3	2.06	0.56
1:D:1330:GLU:OE2	1:D:1342:ARG:NH2	2.39	0.56
1:E:1081:ILE:HA	1:E:1163:GLN:NE2	2.19	0.56
1:A:1153:ALA:O	1:E:1121:ARG:NH1	2.39	0.56
1:E:1367:LEU:HD22	1:E:1371:MET:HG3	1.88	0.56
1:E:628:TYR:CD1	1:E:628:TYR:C	2.78	0.56
1:F:967:PHE:CD2	1:F:1374:PRO:HG3	2.41	0.56
1:F:421:ARG:HH22	1:F:1613:LYS:HB3	1.71	0.56
1:F:628:TYR:CD1	1:F:628:TYR:C	2.79	0.56
2:G:1653:LEU:CD2	2:G:1667:VAL:HG13	2.36	0.56
2:G:197:VAL:HG12	2:G:201:ILE:HG13	1.87	0.56
2:G:914:TRP:HE1	2:G:916:GLY:HA3	1.69	0.56
2:H:1497:ARG:O	2:H:1505:SER:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1709:TYR:HD2	2:H:1709:TYR:C	2.08	0.56
2:H:1991:ARG:HG3	2:H:1996:ILE:HG12	1.88	0.56
2:H:350:MET:HG3	2:H:435:ILE:HB	1.88	0.56
2:I:1207:THR:O	2:I:1215:THR:HA	2.06	0.56
2:I:1393:ASP:HB3	2:I:1395:LEU:HD21	1.87	0.56
2:I:1897:GLU:HG2	2:I:1901:GLN:HE21	1.71	0.56
2:J:1370:LEU:HA	2:J:1435:TYR:CE2	2.41	0.56
2:J:582:LYS:HG3	2:J:1110:VAL:HG11	1.87	0.56
2:J:843:TRP:C	2:J:843:TRP:CD1	2.78	0.56
2:K:1362:PHE:N	2:K:1363:PRO:HD2	2.21	0.56
2:K:1903:VAL:O	2:K:1907:ILE:HG13	2.05	0.56
2:K:1944:ASN:HA	2:K:1993:PHE:HD2	1.71	0.56
2:K:1946:LEU:HB3	2:K:1951:ILE:HD11	1.88	0.56
2:K:595:SER:HB3	2:K:602:PRO:CD	2.35	0.56
2:K:756:ASP:HA	2:K:843:TRP:HH2	1.71	0.56
2:L:1061:VAL:CG1	2:L:1066:ILE:HD11	2.36	0.56
2:L:120:HIS:HD2	2:L:137:VAL:HG21	1.68	0.56
2:L:917:ARG:HD3	2:L:937:ARG:CZ	2.36	0.56
1:A:498:THR:HG21	1:A:858:LEU:CA	2.34	0.56
1:A:88:ILE:HG21	2:G:1821:MET:CE	2.36	0.56
1:B:1005:TRP:HE1	1:B:1561:LEU:HD22	1.66	0.56
1:B:673:LEU:O	1:B:678:ALA:HB3	2.06	0.56
1:C:1017:TYR:HD1	1:C:1017:TYR:N	2.04	0.56
1:C:421:ARG:HH22	1:C:1613:LYS:HB3	1.71	0.56
1:D:1120:LYS:HD3	1:D:1129:ILE:HG12	1.87	0.56
1:E:828:TRP:HE1	1:E:838:THR:HA	1.71	0.56
1:F:1032:MET:HE3	1:F:1165:PRO:HB3	1.86	0.56
1:F:1425:LEU:HD21	1:F:1429:ARG:NH2	2.20	0.56
2:G:1517:LEU:HG	2:G:1523:ILE:HD11	1.86	0.56
2:G:1918:VAL:HG22	2:G:2006:HIS:O	2.06	0.56
2:G:57:PRO:CG	2:G:68:GLU:HG3	2.36	0.56
2:G:663:ILE:H	2:G:663:ILE:CD1	2.14	0.56
2:H:1265:TYR:O	2:H:1267:PRO:HD3	2.05	0.56
2:H:1813:MET:HG3	2:H:1814:GLU:N	2.21	0.56
2:H:1944:ASN:HA	2:H:1993:PHE:HD2	1.70	0.56
2:H:298:ALA:HB2	2:H:304:PHE:HA	1.88	0.56
2:H:745:GLY:HA3	2:H:757:PHE:HB3	1.86	0.56
2:I:1009:ASN:O	2:I:1013:VAL:HG23	2.05	0.56
2:I:1445:THR:CG2	2:I:1498:PHE:HB2	2.36	0.56
2:I:1637:VAL:HG11	2:I:1679:LEU:HD22	1.88	0.56
2:I:914:TRP:HE1	2:I:916:GLY:HA3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:911:GLN:HG3	2:J:1064:THR:HA	1.87	0.56
2:J:1880:ASN:HB3	2:J:1881:TYR:CD1	2.40	0.56
2:J:1918:VAL:CG1	2:J:2006:HIS:HB2	2.33	0.56
2:J:2062:THR:HG22	2:J:2063:GLY:N	2.21	0.56
2:J:745:GLY:HA3	2:J:757:PHE:HB3	1.86	0.56
2:K:589:PHE:CD1	2:K:1116:PHE:CD2	2.94	0.56
2:K:1383:VAL:HG23	2:K:1428:TYR:CE1	2.40	0.56
2:K:1436:ARG:HH22	2:K:1602:LEU:HD13	1.70	0.56
2:K:604:MET:HE1	2:K:811:MET:HB2	1.87	0.56
2:L:1234:ILE:HG12	2:L:1244:LEU:HD13	1.87	0.56
2:L:1356:ALA:CB	2:L:1397:THR:HG22	2.35	0.56
2:L:228:LEU:O	2:L:232:HIS:HD2	1.88	0.56
2:L:699:ILE:HD12	2:L:699:ILE:N	2.19	0.56
2:L:745:GLY:HA3	2:L:757:PHE:HB3	1.87	0.56
2:L:875:PHE:O	2:L:878:GLU:HB2	2.06	0.56
1:A:1565:PRO:O	1:A:1567:GLY:N	2.38	0.56
1:A:1700:GLN:O	1:A:1702:ARG:HG3	2.06	0.56
1:C:1443:LEU:HD11	1:C:1470:ARG:HD2	1.88	0.56
1:C:1483:ALA:HA	1:C:1486:GLN:HE21	1.70	0.56
1:C:948:HIS:O	1:C:952:TYR:HD2	1.89	0.56
1:D:1307:PHE:HB3	1:D:1357:CYS:CB	2.36	0.56
1:D:613:PRO:O	1:D:615:LEU:N	2.37	0.56
1:F:527:ALA:HB2	1:F:637:LEU:HD22	1.86	0.56
2:H:1517:LEU:HG	2:H:1523:ILE:HD11	1.88	0.56
2:H:1574:PRO:HD3	2:H:1611:TYR:CE2	2.41	0.56
2:H:197:VAL:HG12	2:H:201:ILE:HG13	1.87	0.56
2:H:590:VAL:HG23	2:H:1091:HIS:CD2	2.41	0.56
2:H:914:TRP:HE1	2:H:916:GLY:HA3	1.71	0.56
2:I:1090:ILE:O	2:I:1094:HIS:CD2	2.58	0.56
2:I:1554:PRO:HG3	2:I:1659:ILE:HD11	1.88	0.56
2:I:731:ALA:HA	2:I:739:ILE:HD13	1.88	0.56
2:I:785:SER:HA	2:I:788:THR:HB	1.88	0.56
2:I:83:VAL:O	2:I:87:VAL:HG23	2.05	0.56
2:J:1701:GLU:H	2:J:1704:MET:HE3	1.70	0.56
2:K:1445:THR:HG23	2:K:1498:PHE:HB2	1.87	0.56
2:K:1846:ALA:HB3	2:K:1847:LEU:HD12	1.87	0.56
1:E:22:PHE:O	2:K:2006:HIS:HA	2.06	0.56
2:L:1342:PHE:HE2	2:L:1391:VAL:CG2	2.19	0.56
2:L:1309:PHE:CE2	2:L:1360:PRO:HA	2.41	0.56
2:L:505:THR:O	2:L:505:THR:HG22	2.06	0.56
1:A:1118:GLU:OE2	1:E:1154:LEU:HD21	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:ILE:HG23	1:A:1352:MET:HE3	1.88	0.55
1:A:1451:LYS:HE2	1:A:1463:GLU:OE2	2.06	0.55
1:B:421:ARG:HH22	1:B:1613:LYS:HB3	1.70	0.55
1:C:13:LEU:HD11	2:I:2058:VAL:HG21	1.88	0.55
1:D:1260:ALA:O	1:D:1264:MET:HG3	2.06	0.55
1:D:959:PRO:HG2	2:J:974:GLU:HG3	1.88	0.55
2:G:1851:MET:HE2	2:G:1855:SER:HB3	1.87	0.55
2:G:1721:ARG:HH21	2:G:1853:ILE:HD12	1.70	0.55
2:G:329:THR:HG22	2:H:1331:THR:O	2.05	0.55
2:G:859:SER:HB3	2:G:863:GLU:HG3	1.87	0.55
2:G:867:LYS:HD3	2:G:1065:CYS:SG	2.46	0.55
2:H:1083:ILE:O	2:H:1086:ILE:HG13	2.06	0.55
2:H:1114:GLU:HB3	2:H:1169:TYR:HB3	1.88	0.55
2:H:1436:ARG:NH2	2:H:1602:LEU:HD11	2.22	0.55
2:H:1966:ARG:O	2:H:1970:VAL:HG23	2.05	0.55
2:H:21:LEU:HA	2:H:37:VAL:O	2.05	0.55
2:H:818:THR:HG22	2:H:829:LYS:CB	2.35	0.55
2:H:820:LYS:HG3	2:H:821:GLU:HG2	1.88	0.55
2:I:1061:VAL:CG1	2:I:1066:ILE:HD11	2.36	0.55
2:J:1067:LEU:HB2	4:J:2101:FMN:C7M	2.35	0.55
2:J:1086:ILE:O	2:J:1090:ILE:HG13	2.06	0.55
2:J:1637:VAL:HG11	2:J:1679:LEU:HD22	1.88	0.55
2:J:605:VAL:CB	2:J:628:ILE:HG13	2.33	0.55
2:K:663:ILE:H	2:K:663:ILE:CD1	2.13	0.55
2:K:796:TRP:HH2	2:K:805:MET:HE1	1.69	0.55
2:L:1090:ILE:O	2:L:1094:HIS:CD2	2.59	0.55
2:L:1411:LYS:HE3	2:L:1441:ASP:OD2	2.06	0.55
2:L:152:LYS:HB2	2:L:154:TYR:CE1	2.41	0.55
1:A:1448:ALA:HA	1:A:1451:LYS:CE	2.34	0.55
1:A:1447:VAL:CG2	1:A:1467:LEU:HD21	2.35	0.55
1:A:452:ILE:HD12	1:A:467:LYS:HA	1.87	0.55
1:B:1168:TRP:NE1	1:B:1173:TYR:HE1	2.04	0.55
1:B:1672:GLY:HA3	1:B:1678:LEU:CD2	2.29	0.55
1:B:501:ASP:OD2	1:B:503:ARG:HB2	2.07	0.55
1:C:1491:ASN:HD22	1:C:1491:ASN:H	1.54	0.55
1:C:1532:LYS:HE2	1:C:1598:VAL:HG11	1.88	0.55
1:D:1307:PHE:HA	1:D:1568:ALA:HB2	1.89	0.55
1:D:498:THR:HG21	1:D:858:LEU:CA	2.34	0.55
1:D:399:TYR:OH	1:D:692:THR:HG23	2.06	0.55
2:G:1048:TRP:CD2	2:G:1049:GLN:HG2	2.39	0.55
2:G:590:VAL:HG23	2:G:1091:HIS:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1374:VAL:CG2	2:G:1436:ARG:HE	2.20	0.55
2:G:524:ILE:HA	2:G:527:LEU:HD12	1.87	0.55
2:H:289:ILE:HG12	2:H:493:MET:CE	2.35	0.55
2:H:930:THR:CG2	2:H:933:GLU:HG3	2.35	0.55
2:I:1046:SER:O	2:I:1049:GLN:HG3	2.06	0.55
2:I:102:LEU:O	2:I:106:LEU:HG	2.06	0.55
2:I:372:LEU:HD11	2:I:397:SER:HB2	1.88	0.55
2:J:1265:TYR:O	2:J:1267:PRO:HD3	2.05	0.55
2:J:372:LEU:HD11	2:J:397:SER:HB2	1.88	0.55
2:K:172:ILE:HG22	2:K:514:VAL:O	2.07	0.55
2:K:1764:MET:HG3	2:K:1781:PHE:CE1	2.41	0.55
2:K:1897:GLU:HG2	2:K:1901:GLN:NE2	2.22	0.55
2:K:656:ARG:NH1	2:K:656:ARG:HG2	2.21	0.55
2:K:952:ASP:OD1	2:K:953:PRO:HD2	2.06	0.55
2:L:1009:ASN:O	2:L:1013:VAL:HG23	2.07	0.55
2:L:462:ALA:N	2:L:483:ASP:HA	2.21	0.55
2:L:618:VAL:HG11	2:L:648:ILE:HD11	1.87	0.55
2:L:914:TRP:HE1	2:L:916:GLY:HA3	1.72	0.55
1:B:1095:GLN:O	1:B:1096:LEU:HD23	2.06	0.55
1:B:985:ARG:HB3	1:B:1422:ARG:HH22	1.71	0.55
1:C:1307:PHE:HB3	1:C:1357:CYS:HB2	1.88	0.55
1:C:1700:GLN:O	1:C:1702:ARG:HG3	2.06	0.55
1:C:336:PHE:O	1:C:339:GLN:HB2	2.05	0.55
1:C:535:TYR:OH	1:C:630:LYS:HE3	2.06	0.55
1:C:716:GLN:HB3	1:C:769:ILE:HG23	1.87	0.55
1:D:628:TYR:OH	1:D:630:LYS:HE2	2.06	0.55
1:D:875:GLU:O	1:D:878:PHE:HB3	2.06	0.55
1:D:888:ILE:HA	1:D:891:LEU:HD12	1.88	0.55
1:E:40:ARG:HH21	1:E:72:THR:HG22	1.71	0.55
1:F:1267:LEU:HD11	1:F:1303:LEU:HD12	1.88	0.55
2:G:1411:LYS:HE3	2:G:1441:ASP:OD2	2.07	0.55
2:H:825:SER:CB	2:H:1053:ILE:HG13	2.35	0.55
2:H:1074:LYS:HE3	2:H:1075:TYR:CE1	2.38	0.55
2:H:261:TYR:CD1	2:H:295:ILE:HG12	2.41	0.55
2:H:460:ILE:O	2:H:486:ILE:HB	2.07	0.55
2:H:611:THR:HG21	2:H:817:MET:HE2	1.87	0.55
2:H:861:MET:HB2	2:H:863:GLU:HG2	1.89	0.55
2:I:119:VAL:HG21	2:I:140:TYR:CD2	2.41	0.55
2:I:1248:GLU:OE1	2:I:1248:GLU:HA	2.06	0.55
2:I:1342:PHE:HE2	2:I:1391:VAL:CG2	2.20	0.55
2:I:1885:ALA:HB2	2:I:1998:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:26:LEU:O	2:I:32:GLU:HA	2.06	0.55
2:H:43:PHE:CZ	2:I:42:HIS:NE2	2.74	0.55
2:J:1171:TRP:CE3	2:J:1236:LEU:HD22	2.41	0.55
2:J:451:ILE:O	2:J:455:VAL:HG23	2.06	0.55
2:J:57:PRO:CG	2:J:68:GLU:HG3	2.37	0.55
2:K:1334:ALA:HA	2:K:1341:ASP:HB2	1.89	0.55
2:K:1566:LYS:O	2:K:1568:PRO:HD3	2.06	0.55
2:K:251:PRO:HG3	2:K:316:PHE:CA	2.36	0.55
2:L:1181:PHE:CD1	2:L:1191:PRO:HD2	2.41	0.55
2:L:1890:ARG:HB3	2:L:1994:ALA:HB2	1.88	0.55
2:L:2019:SER:HA	2:L:2022:LEU:HD12	1.87	0.55
1:A:1164:ILE:HD12	1:A:1355:GLN:HG3	1.87	0.55
1:A:1183:VAL:HG13	1:A:1252:GLU:OE1	2.07	0.55
1:B:1001:GLU:HG2	1:B:1008:ALA:HB2	1.89	0.55
1:B:1495:ARG:HG2	1:B:1495:ARG:HH11	1.71	0.55
1:B:498:THR:HG21	1:B:858:LEU:CA	2.35	0.55
1:C:1672:GLY:HA3	1:C:1678:LEU:CD2	2.33	0.55
1:C:628:TYR:OH	1:C:630:LYS:HG2	2.07	0.55
1:D:868:VAL:CG1	1:D:908:ILE:HD11	2.35	0.55
1:E:1113:LYS:HG3	1:E:1138:TYR:CE2	2.41	0.55
1:E:1323:ALA:HB1	1:E:1351:PHE:HE2	1.71	0.55
1:E:1363:MET:HE1	1:E:1373:VAL:CG2	2.34	0.55
1:E:987:MET:O	1:E:1490:GLY:HA3	2.07	0.55
1:E:558:LEU:HB2	1:E:563:GLN:CG	2.34	0.55
1:C:1317:GLU:HB3	1:F:1250:LEU:HD22	1.89	0.55
1:F:843:VAL:HG22	1:F:843:VAL:O	2.05	0.55
2:G:102:LEU:O	2:G:106:LEU:HG	2.07	0.55
2:G:604:MET:HE1	2:G:811:MET:HB2	1.89	0.55
2:H:120:HIS:HD2	2:H:137:VAL:HG21	1.70	0.55
2:H:462:ALA:N	2:H:483:ASP:HA	2.21	0.55
2:I:1028:VAL:HG13	2:I:1030:PHE:CD2	2.42	0.55
2:I:1420:LYS:HG2	2:I:1425:PRO:CA	2.35	0.55
2:I:1574:PRO:HD3	2:I:1611:TYR:CE2	2.42	0.55
2:I:1918:VAL:HG13	2:I:2006:HIS:CB	2.37	0.55
2:I:349:PRO:O	2:I:392:THR:HG22	2.05	0.55
2:J:1194:ARG:NH1	2:J:1194:ARG:CG	2.51	0.55
2:J:1383:VAL:HG23	2:J:1428:TYR:CE1	2.39	0.55
2:J:1709:TYR:C	2:J:1709:TYR:CD2	2.78	0.55
2:J:261:TYR:CD1	2:J:295:ILE:HG12	2.42	0.55
2:J:928:ASP:HA	2:J:1007:LEU:HD23	1.88	0.55
2:K:1709:TYR:CD2	2:K:1709:TYR:C	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:532:LYS:HD3	2:K:537:VAL:HG21	1.87	0.55
2:L:928:ASP:HA	2:L:1007:LEU:HD23	1.89	0.55
2:L:1224:GLN:HA	2:L:1224:GLN:OE1	2.07	0.55
2:L:1288:PHE:CE2	2:L:1292:VAL:HG21	2.41	0.55
2:L:1445:THR:CG2	2:L:1498:PHE:HB2	2.37	0.55
2:L:1764:MET:HB3	2:L:1780:ILE:CD1	2.37	0.55
2:L:529:ASN:HD22	2:L:552:VAL:HG23	1.72	0.55
1:A:1086:PHE:CE2	1:A:1310:PHE:HD2	2.25	0.55
1:B:1213:VAL:HG13	1:B:1217:GLU:HB2	1.89	0.55
1:B:1330:GLU:HG2	1:B:1333:ARG:NH1	2.22	0.55
1:B:868:VAL:HG11	1:B:908:ILE:CD1	2.35	0.55
1:C:527:ALA:HB2	1:C:637:LEU:HD22	1.89	0.55
1:D:1207:TYR:CZ	1:D:1682:LYS:HD2	2.41	0.55
1:E:1447:VAL:CG2	1:E:1467:LEU:HD21	2.32	0.55
1:F:1120:LYS:HD3	1:F:1129:ILE:HG12	1.88	0.55
1:F:1330:GLU:OE2	1:F:1342:ARG:NH2	2.39	0.55
1:C:1499:ARG:CD	1:F:1476:ARG:HH12	2.11	0.55
2:G:818:THR:HG22	2:G:829:LYS:CB	2.32	0.55
2:H:1637:VAL:CG1	2:H:1679:LEU:HD22	2.37	0.55
2:H:24:LEU:HD12	2:H:37:VAL:CG2	2.36	0.55
2:H:57:PRO:CG	2:H:68:GLU:HG3	2.37	0.55
2:I:590:VAL:HG23	2:I:1091:HIS:CD2	2.41	0.55
2:I:1436:ARG:NH2	2:I:1602:LEU:HD11	2.22	0.55
2:I:462:ALA:HB2	2:I:481:LEU:HB2	1.88	0.55
2:I:57:PRO:CG	2:I:68:GLU:HG3	2.37	0.55
2:I:745:GLY:HA3	2:I:757:PHE:HB3	1.88	0.55
2:J:2062:THR:HG22	2:J:2064:SER:N	2.20	0.55
2:J:290:VAL:HG13	2:J:314:LEU:HD23	1.87	0.55
2:K:186:LEU:HD21	2:K:256:VAL:HG22	1.88	0.55
2:K:609:THR:CG2	2:K:633:GLY:HA3	2.36	0.55
2:J:1338:ARG:HH21	2:L:327:PRO:CD	2.19	0.55
2:L:378:ILE:HD11	2:L:398:LEU:HA	1.89	0.55
2:L:411:PRO:HD2	2:L:414:LEU:CD1	2.36	0.55
2:L:776:LEU:HG	2:L:807:PHE:CE2	2.42	0.55
1:B:1451:LYS:HA	1:B:1454:ARG:NH2	2.20	0.55
1:C:1164:ILE:HD12	1:C:1355:GLN:HG3	1.88	0.55
1:D:768:ARG:HA	1:D:772:THR:OG1	2.07	0.55
1:E:1129:ILE:HA	1:E:1139:THR:O	2.07	0.55
1:E:1363:MET:HE3	1:E:1368:ALA:HB2	1.88	0.55
1:F:1113:LYS:HG3	1:F:1138:TYR:CE2	2.41	0.55
1:F:565:GLN:HG2	1:F:565:GLN:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1445:THR:HG23	2:G:1498:PHE:HB2	1.89	0.55
2:G:1593:SER:OG	2:G:1596:PHE:HB2	2.07	0.55
2:G:462:ALA:N	2:G:483:ASP:HA	2.21	0.55
2:H:1445:THR:HG23	2:H:1498:PHE:HB2	1.87	0.55
2:H:361:VAL:O	2:H:365:ILE:HG13	2.07	0.55
2:H:935:VAL:HG11	2:H:997:LEU:HD21	1.88	0.55
2:J:1393:ASP:HB3	2:J:1395:LEU:HD21	1.88	0.55
2:J:1913:TRP:HZ3	2:J:1938:THR:HG21	1.72	0.55
2:J:1982:ALA:O	2:J:1984:PRO:HD3	2.07	0.55
2:J:462:ALA:N	2:J:483:ASP:HA	2.20	0.55
2:K:1324:PHE:N	2:K:1583:VAL:HG11	2.22	0.55
2:K:465:LEU:HB2	2:K:479:ARG:HG3	1.89	0.55
2:L:917:ARG:HG2	2:L:917:ARG:HH11	1.65	0.55
1:B:1160:VAL:C	1:B:1352:MET:HE1	2.27	0.55
1:B:1494:TRP:CG	1:B:1505:GLY:HA3	2.42	0.55
1:B:36:LEU:HD22	1:B:61:LEU:HD21	1.89	0.55
1:C:1606:VAL:O	1:C:1608:PRO:HD3	2.06	0.55
1:D:965:TYR:OH	1:D:1199:LEU:HD22	2.06	0.55
1:C:1473:HIS:HE1	1:F:1420:TYR:OH	1.90	0.55
2:G:1903:VAL:O	2:G:1907:ILE:HG13	2.05	0.55
2:G:21:LEU:HD22	2:G:36:LEU:HG	1.87	0.55
2:G:268:LEU:HD12	2:G:275:LEU:HD11	1.89	0.55
2:G:261:TYR:CD1	2:G:295:ILE:HG12	2.40	0.55
2:G:35:PHE:HD2	2:G:37:VAL:HG22	1.72	0.55
2:H:1015:HIS:NE2	2:H:1019:LEU:HD11	2.21	0.55
2:H:1885:ALA:HB2	2:H:1998:LEU:HD21	1.88	0.55
2:H:462:ALA:H	2:H:483:ASP:HA	1.72	0.55
2:I:783:GLY:HA3	2:I:1075:TYR:CB	2.37	0.55
2:I:843:TRP:CD1	2:I:843:TRP:C	2.79	0.55
2:I:930:THR:CG2	2:I:933:GLU:HG3	2.37	0.55
2:J:1181:PHE:CD1	2:J:1191:PRO:HD2	2.42	0.55
2:J:1566:LYS:O	2:J:1568:PRO:HD3	2.06	0.55
2:J:1873:ARG:NH1	2:J:2002:ASP:HB3	2.22	0.55
2:J:388:ASN:HD22	2:J:388:ASN:C	2.09	0.55
2:K:1468:ARG:NH1	2:K:1475:LEU:HD22	2.22	0.55
2:K:1982:ALA:O	2:K:1984:PRO:HD3	2.07	0.55
2:K:271:GLU:H	2:K:274:GLU:HG3	1.71	0.55
2:K:486:ILE:HG23	2:K:490:LEU:HG	1.89	0.55
2:K:931:TYR:O	2:K:935:VAL:HG12	2.06	0.55
2:L:315:LEU:HA	2:L:318:ILE:HD12	1.89	0.55
2:L:26:LEU:O	2:L:32:GLU:HA	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1004:PRO:HD3	1:A:1572:TRP:CH2	2.42	0.55
1:A:11:TYR:O	1:A:15:VAL:HG23	2.06	0.55
1:B:1580:VAL:O	1:B:1617:ILE:HD11	2.07	0.55
1:C:526:MET:HE3	1:C:614:PHE:HB2	1.87	0.55
1:D:401:SER:O	1:D:405:TRP:CD1	2.60	0.55
1:E:1032:MET:HE2	1:E:1165:PRO:HB3	1.88	0.55
1:E:1337:PRO:HA	1:E:1340:MET:HG3	1.89	0.55
1:E:1640:LYS:HG3	1:E:1641:TYR:N	2.22	0.55
1:E:716:GLN:HB3	1:E:769:ILE:HG23	1.88	0.55
1:F:1447:VAL:CG2	1:F:1467:LEU:HD21	2.35	0.55
1:F:1386:THR:HG22	1:F:1629:GLN:HE21	1.71	0.55
1:F:350:ASP:HB3	1:F:353:ALA:HB2	1.87	0.55
1:F:427:ARG:HH12	1:F:492:ILE:CG2	2.04	0.55
2:G:1061:VAL:CG1	2:G:1066:ILE:HD11	2.37	0.55
2:H:102:LEU:O	2:H:106:LEU:HG	2.07	0.55
2:H:1610:MET:HA	2:H:1610:MET:CE	2.37	0.55
2:H:859:SER:HB3	2:H:863:GLU:HG3	1.89	0.55
2:I:789:TYR:CE1	2:I:1097:PHE:HB3	2.41	0.55
2:I:1750:GLY:O	2:I:1755:LYS:HE3	2.06	0.55
2:I:1818:PHE:HE2	2:I:1822:ARG:HH12	1.53	0.55
2:J:1845:VAL:CG2	2:J:1856:LEU:HD22	2.37	0.55
2:J:272:PRO:HD3	2:J:301:TRP:CE2	2.42	0.55
2:J:349:PRO:O	2:J:392:THR:HG22	2.07	0.55
2:J:604:MET:HE1	2:J:811:MET:HB2	1.89	0.55
2:J:778:ALA:HB2	2:J:807:PHE:CD2	2.42	0.55
2:K:1805:PHE:O	2:K:1808:PRO:HD2	2.06	0.55
2:L:1083:ILE:O	2:L:1086:ILE:HG13	2.06	0.55
2:L:1410:GLY:HA3	2:L:1436:ARG:HA	1.89	0.55
2:L:1885:ALA:HB2	2:L:1998:LEU:HD21	1.89	0.55
2:L:256:VAL:O	2:L:260:HIS:CD2	2.60	0.55
2:L:197:VAL:HA	2:L:262:MET:HE1	1.89	0.55
2:L:350:MET:HG3	2:L:435:ILE:HB	1.87	0.55
2:L:778:ALA:HB2	2:L:807:PHE:CD2	2.42	0.55
1:A:1260:ALA:O	1:A:1264:MET:HG3	2.06	0.55
1:A:985:ARG:HB3	1:A:1422:ARG:HH22	1.72	0.55
1:A:1640:LYS:HG3	1:A:1641:TYR:HD1	1.70	0.55
1:B:799:LEU:HD12	1:B:821:LEU:HB3	1.89	0.55
1:C:1032:MET:HE2	1:C:1165:PRO:HB3	1.87	0.55
1:C:562:SER:HB3	1:D:551:LEU:CD2	2.35	0.55
1:E:1386:THR:HG22	1:E:1629:GLN:HE21	1.70	0.55
1:E:21:GLN:O	2:K:2006:HIS:HD2	1.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:759:ILE:HG12	1:F:813:LEU:HD23	1.89	0.55
2:G:942:MET:HE1	2:G:955:LEU:HB3	1.87	0.55
2:H:1356:ALA:CB	2:H:1397:THR:HG22	2.37	0.55
2:H:1709:TYR:CD2	2:H:1709:TYR:C	2.80	0.55
2:H:1890:ARG:HB3	2:H:1994:ALA:HB2	1.89	0.55
2:I:1083:ILE:O	2:I:1086:ILE:HG13	2.06	0.55
2:I:1301:PHE:HB3	2:I:1364:ARG:NH1	2.22	0.55
2:I:1335:PHE:CZ	2:I:1629:ILE:HD13	2.42	0.55
2:I:1404:VAL:HG22	2:I:1413:VAL:HG22	1.89	0.55
2:I:1586:ASP:OD1	2:I:1588:ASN:HB2	2.07	0.55
2:I:268:LEU:HD12	2:I:275:LEU:HD11	1.89	0.55
2:I:529:ASN:HD22	2:I:552:VAL:CG2	2.19	0.55
2:J:1246:LEU:HD11	2:J:1261:PHE:HE1	1.70	0.55
2:J:411:PRO:HD2	2:J:414:LEU:CD1	2.37	0.55
2:J:775:VAL:HG12	2:J:777:VAL:HG23	1.89	0.55
2:J:327:PRO:N	2:K:1338:ARG:NH2	2.55	0.55
2:K:1420:LYS:HG2	2:K:1425:PRO:CA	2.37	0.55
2:K:1603:PRO:HG2	2:K:1642:MET:HE3	1.88	0.55
2:K:1729:ASN:O	2:K:1757:ILE:HG23	2.06	0.55
2:K:83:VAL:O	2:K:87:VAL:HG23	2.07	0.55
2:L:1180:VAL:HG11	2:L:1187:PHE:CG	2.42	0.55
2:L:1457:HIS:ND1	2:L:1487:THR:HG22	2.22	0.55
2:L:2054:TYR:HA	2:L:2057:GLU:OE1	2.07	0.55
2:L:221:TYR:CE2	2:L:225:LEU:HD22	2.42	0.55
2:L:882:LYS:HB3	2:L:898:ARG:NH1	2.22	0.55
1:A:1164:ILE:CD1	1:A:1355:GLN:HG3	2.37	0.55
1:B:1142:LEU:H	1:B:1142:LEU:HD12	1.72	0.55
1:E:1107:GLU:HG3	1:E:1108:PRO:CD	2.33	0.55
1:A:1250:LEU:HD22	1:E:1317:GLU:HB3	1.88	0.55
1:E:551:LEU:C	1:E:551:LEU:HD23	2.27	0.55
1:F:88:ILE:HG21	2:L:1821:MET:CE	2.37	0.55
2:G:1175:MET:HE1	2:G:1234:ILE:HG21	1.88	0.55
2:G:1246:LEU:HD11	2:G:1261:PHE:HE1	1.72	0.55
2:G:1517:LEU:HD12	2:G:1521:GLU:HB2	1.89	0.55
2:G:2073:ASN:O	2:G:2076:LYS:HB3	2.07	0.55
2:G:298:ALA:HB2	2:G:304:PHE:HA	1.87	0.55
2:G:378:ILE:HG23	2:G:391:VAL:CG1	2.37	0.55
2:G:713:HIS:CD2	2:G:740:ILE:HD13	2.42	0.55
2:H:1393:ASP:HB3	2:H:1395:LEU:HD21	1.88	0.55
2:H:1897:GLU:HG2	2:H:1901:GLN:NE2	2.22	0.55
2:H:917:ARG:HD3	2:H:937:ARG:CZ	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1725:HIS:CD2	2:I:1854:GLU:HB3	2.42	0.55
2:I:2062:THR:HG22	2:I:2064:SER:N	2.22	0.55
2:I:501:TRP:HE1	2:I:528:THR:CG2	2.14	0.55
2:I:776:LEU:HG	2:I:807:PHE:CE2	2.41	0.55
2:I:992:ALA:O	2:I:995:ARG:HB3	2.06	0.55
2:J:1554:PRO:HA	2:J:1659:ILE:HG12	1.89	0.55
2:J:1899:ALA:O	2:J:1903:VAL:HG23	2.06	0.55
2:J:700:GLU:CD	2:J:700:GLU:H	2.10	0.55
2:K:1224:GLN:OE1	2:K:1224:GLN:HA	2.07	0.55
2:K:1517:LEU:HG	2:K:1523:ILE:HD11	1.88	0.55
2:K:966:VAL:O	2:K:970:PHE:HD1	1.90	0.55
2:L:1248:GLU:HA	2:L:1248:GLU:OE1	2.06	0.55
2:L:486:ILE:HG23	2:L:490:LEU:HG	1.89	0.55
1:A:1094:LYS:HB3	1:A:1154:LEU:HB2	1.89	0.54
1:A:746:PHE:CD2	3:A:1901:NAP:H4D	2.43	0.54
1:C:40:ARG:NH2	1:C:72:THR:HG22	2.21	0.54
1:C:617:LEU:N	1:C:617:LEU:HD23	2.21	0.54
1:C:628:TYR:C	1:C:628:TYR:CD1	2.79	0.54
1:D:1547:ARG:HG2	1:D:1604:TYR:HD1	1.71	0.54
1:D:36:LEU:HD22	1:D:61:LEU:HD21	1.89	0.54
1:D:767:HIS:CB	1:D:813:LEU:HD12	2.37	0.54
1:E:1703:VAL:HG22	1:E:1713:PHE:N	2.22	0.54
1:E:415:TYR:O	1:E:419:PHE:HD1	1.89	0.54
1:E:875:GLU:O	1:E:878:PHE:HB3	2.06	0.54
1:F:1068:TYR:O	1:F:1072:ILE:HG13	2.08	0.54
2:G:1616:VAL:HG11	2:G:1679:LEU:CD1	2.33	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:CD2	2.42	0.54
2:G:613:VAL:HG23	2:G:635:TYR:CE1	2.42	0.54
2:H:2059:HIS:HB2	2:H:2067:ILE:HG21	1.88	0.54
2:I:1442:TYR:CG	2:I:1499:LYS:O	2.60	0.54
2:J:1721:ARG:HH21	2:J:1853:ILE:HD12	1.70	0.54
2:J:192:THR:C	2:J:194:PRO:HD3	2.27	0.54
2:J:197:VAL:HG21	2:J:263:ILE:HD11	1.88	0.54
2:J:618:VAL:HG11	2:J:648:ILE:HD11	1.89	0.54
2:J:750:GLY:O	2:J:865:ILE:HA	2.07	0.54
2:K:1293:TRP:NE1	2:K:1354:TRP:HZ2	2.05	0.54
2:K:1481:ILE:HD12	2:K:1515:LEU:HD23	1.88	0.54
2:K:1878:ARG:HE	2:K:1986:PRO:HG3	1.73	0.54
1:E:24:MET:HB3	2:K:2043:VAL:HG12	1.89	0.54
2:K:325:ALA:HB2	2:K:447:ALA:HB2	1.88	0.54
2:K:378:ILE:HG23	2:K:391:VAL:CG1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:379:GLY:O	2:K:391:VAL:HG13	2.07	0.54
2:L:126:VAL:HG12	2:L:127:ALA:H	1.73	0.54
2:L:1344:ALA:N	2:L:1389:LEU:O	2.36	0.54
2:L:35:PHE:HD2	2:L:37:VAL:HG22	1.72	0.54
1:A:1267:LEU:HD11	1:A:1303:LEU:HD12	1.87	0.54
1:A:1697:LEU:HD21	1:E:1401:LEU:HD22	1.88	0.54
1:D:1447:VAL:CG2	1:D:1467:LEU:HD21	2.34	0.54
1:D:1686:PRO:HB2	1:D:1713:PHE:CD1	2.42	0.54
1:E:1113:LYS:O	1:E:1117:GLU:HG3	2.07	0.54
1:E:415:TYR:CD2	1:E:1614:THR:HA	2.42	0.54
1:F:983:GLN:HB3	1:F:1418:ILE:HG21	1.88	0.54
1:F:1534:GLU:HG2	1:F:1625:PHE:CE1	2.43	0.54
1:F:498:THR:HG21	1:F:858:LEU:CA	2.37	0.54
1:F:673:LEU:O	1:F:678:ALA:HB3	2.07	0.54
2:G:172:ILE:HG22	2:G:514:VAL:O	2.06	0.54
2:G:83:VAL:O	2:G:87:VAL:HG23	2.08	0.54
2:H:1028:VAL:HG13	2:H:1030:PHE:CD2	2.43	0.54
2:H:451:ILE:O	2:H:455:VAL:HG23	2.06	0.54
2:H:611:THR:HA	2:H:1051:GLU:OE2	2.06	0.54
2:H:857:VAL:HG13	2:H:876:TRP:HE1	1.72	0.54
2:H:888:ARG:O	2:H:891:ARG:HB2	2.07	0.54
2:H:92:GLU:HB3	2:H:95:HIS:NE2	2.21	0.54
2:I:1026:LYS:HE2	2:I:1045:ASP:OD2	2.08	0.54
2:I:1181:PHE:CD1	2:I:1191:PRO:HD2	2.42	0.54
2:I:1457:HIS:ND1	2:I:1487:THR:HG22	2.23	0.54
2:J:1746:THR:CB	2:J:1792:THR:HG23	2.35	0.54
2:J:762:LEU:HD11	2:J:800:PHE:CD2	2.42	0.54
2:J:882:LYS:HB3	2:J:898:ARG:HH12	1.73	0.54
2:K:1574:PRO:HD3	2:K:1611:TYR:CE2	2.43	0.54
2:K:192:THR:C	2:K:194:PRO:HD3	2.27	0.54
2:K:361:VAL:O	2:K:365:ILE:HG13	2.07	0.54
2:K:285:HIS:HD2	2:K:501:TRP:CE3	2.24	0.54
2:K:719:GLY:O	2:K:755:GLU:HG3	2.08	0.54
2:L:1607:THR:HB	2:L:1643:VAL:O	2.07	0.54
2:L:1804:GLN:HB3	2:L:1861:PHE:CE1	2.43	0.54
2:L:1897:GLU:HG2	2:L:1901:GLN:NE2	2.23	0.54
2:L:1918:VAL:HG13	2:L:2006:HIS:CB	2.33	0.54
2:L:285:HIS:HD2	2:L:501:TRP:CE3	2.24	0.54
2:L:785:SER:HA	2:L:788:THR:HB	1.87	0.54
1:A:968:PRO:HD2	1:A:1374:PRO:HB3	1.90	0.54
1:A:36:LEU:HD22	1:A:61:LEU:HD21	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:613:PRO:O	1:A:615:LEU:N	2.35	0.54
1:B:549:TYR:HE1	1:B:567:ASN:HB3	1.73	0.54
1:E:1584:GLY:HA2	1:E:1617:ILE:CD1	2.38	0.54
1:F:1079:ARG:NH1	1:F:1079:ARG:HG2	2.07	0.54
1:C:1431:GLN:HG2	1:F:1431:GLN:OE1	2.08	0.54
1:F:1510:TRP:CZ3	1:F:1642:LEU:HA	2.42	0.54
1:C:1401:LEU:HD22	1:F:1697:LEU:HD21	1.89	0.54
1:F:427:ARG:HG3	1:F:492:ILE:HG12	1.89	0.54
1:F:526:MET:HE3	1:F:614:PHE:HB2	1.89	0.54
2:G:837:GLY:HA3	2:G:1074:LYS:HG2	1.89	0.54
2:G:1913:TRP:HZ3	2:G:1938:THR:HG21	1.73	0.54
2:G:653:PRO:O	2:G:656:ARG:HB2	2.07	0.54
2:G:745:GLY:HA3	2:G:757:PHE:HB3	1.88	0.54
2:G:783:GLY:HA3	2:G:1075:TYR:CB	2.34	0.54
2:H:1086:ILE:O	2:H:1090:ILE:HG13	2.07	0.54
2:H:1299:VAL:HG22	2:H:1301:PHE:CD1	2.43	0.54
2:H:1554:PRO:HA	2:H:1659:ILE:HG12	1.88	0.54
2:H:1653:LEU:CD2	2:H:1667:VAL:HG13	2.38	0.54
2:H:26:LEU:O	2:H:32:GLU:HA	2.08	0.54
2:I:1377:SER:HB3	2:I:1432:GLN:HB2	1.90	0.54
2:I:422:THR:HG23	2:I:844:GLU:CD	2.28	0.54
2:I:582:LYS:HG3	2:I:1110:VAL:HG11	1.88	0.54
2:J:1885:ALA:HB2	2:J:1998:LEU:HD21	1.89	0.54
2:J:465:LEU:HB2	2:J:479:ARG:HG3	1.90	0.54
2:J:876:TRP:C	2:J:876:TRP:CD1	2.81	0.54
2:K:1053:ILE:HD11	2:K:1061:VAL:HG13	1.88	0.54
2:K:159:PHE:HA	2:K:162:ALA:HB3	1.89	0.54
2:K:2019:SER:HA	2:K:2022:LEU:HD12	1.89	0.54
2:K:272:PRO:HD3	2:K:301:TRP:CE2	2.43	0.54
2:K:762:LEU:HD11	2:K:800:PHE:CD2	2.43	0.54
2:K:783:GLY:HA3	2:K:1075:TYR:CB	2.34	0.54
2:K:859:SER:CB	2:K:863:GLU:HG3	2.36	0.54
2:L:1564:SER:HB2	2:L:1653:LEU:H	1.73	0.54
2:L:1566:LYS:O	2:L:1568:PRO:HD3	2.08	0.54
2:L:938:MET:HE2	2:L:959:THR:HG22	1.90	0.54
1:A:1211:LYS:HE3	1:A:1711:LEU:HD21	1.89	0.54
1:A:421:ARG:NH2	1:A:1613:LYS:HB3	2.21	0.54
1:B:1237:LYS:HB2	1:D:1236:TYR:O	2.08	0.54
1:B:1532:LYS:HE2	1:B:1598:VAL:HG11	1.89	0.54
1:C:768:ARG:HA	1:C:772:THR:OG1	2.08	0.54
1:C:868:VAL:CG1	1:C:908:ILE:HD11	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1703:VAL:HG12	1:D:1711:LEU:HD22	1.90	0.54
1:F:904:GLY:HA2	1:F:906:GLN:OE1	2.08	0.54
2:G:1411:LYS:O	2:G:1434:LEU:HD12	2.07	0.54
2:G:1807:GLN:HB2	2:G:1808:PRO:HD3	1.88	0.54
2:G:1899:ALA:O	2:G:1903:VAL:HG23	2.08	0.54
2:G:35:PHE:CD2	2:G:37:VAL:HG22	2.42	0.54
2:G:824:THR:HB	2:G:829:LYS:HE3	1.89	0.54
2:H:1317:ASN:HB3	2:H:1320:ALA:HB3	1.90	0.54
2:H:152:LYS:HB2	2:H:154:TYR:CE1	2.42	0.54
2:H:251:PRO:HG3	2:H:316:PHE:CA	2.37	0.54
2:I:663:ILE:HG21	3:I:2102:NAP:H1D	1.89	0.54
2:I:228:LEU:O	2:I:232:HIS:HD2	1.90	0.54
2:I:505:THR:O	2:I:505:THR:HG22	2.08	0.54
2:J:1607:THR:HB	2:J:1643:VAL:O	2.06	0.54
1:D:88:ILE:HG21	2:J:1821:MET:HE2	1.90	0.54
2:J:268:LEU:HD12	2:J:275:LEU:HD11	1.90	0.54
2:J:409:LYS:HB3	2:J:428:PHE:CZ	2.42	0.54
2:J:325:ALA:HB2	2:J:447:ALA:HB2	1.89	0.54
2:J:460:ILE:HD13	2:J:487:ILE:HD11	1.89	0.54
2:J:70:SER:HB2	2:J:74:GLU:OE2	2.08	0.54
2:J:980:LEU:HD22	2:J:986:LEU:HD21	1.89	0.54
2:K:617:PHE:CE1	2:K:822:ALA:HB2	2.42	0.54
2:L:38:PRO:HG2	2:L:41:LEU:HD12	1.90	0.54
2:L:580:LEU:HD21	2:L:1095:ILE:HA	1.89	0.54
1:A:1081:ILE:HG13	1:A:1159:LEU:O	2.07	0.54
1:B:469:LEU:O	1:B:472:GLN:HB3	2.08	0.54
1:C:1017:TYR:N	1:C:1017:TYR:CD1	2.75	0.54
1:C:1186:VAL:HG23	1:C:1309:ASP:HB2	1.88	0.54
1:C:1565:PRO:O	1:C:1567:GLY:N	2.41	0.54
1:C:414:TYR:CE2	1:C:418:ILE:HD11	2.43	0.54
1:D:1100:VAL:HG21	1:D:1150:ILE:HD12	1.89	0.54
1:D:1186:VAL:HG23	1:D:1309:ASP:HB2	1.90	0.54
1:E:1451:LYS:HA	1:E:1454:ARG:NH2	2.22	0.54
1:E:1534:GLU:HG2	1:E:1625:PHE:CE1	2.42	0.54
1:E:746:PHE:HB3	3:E:1901:NAP:H52N	1.89	0.54
1:C:1118:GLU:OE2	1:F:1154:LEU:HD21	2.06	0.54
1:F:905:LEU:HD23	1:F:908:ILE:HD12	1.90	0.54
2:G:1053:ILE:HD11	2:G:1061:VAL:HG13	1.89	0.54
2:G:1317:ASN:HB3	2:G:1320:ALA:HB3	1.89	0.54
2:G:1436:ARG:NH2	2:G:1602:LEU:CD1	2.71	0.54
2:G:485:ASP:O	2:G:488:PRO:HD2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:752:HIS:NE2	2:G:856:THR:HG22	2.21	0.54
2:H:197:VAL:HA	2:H:262:MET:HE1	1.90	0.54
2:H:582:LYS:HG3	2:H:1110:VAL:HG11	1.89	0.54
2:I:1156:ASP:HB2	2:I:1159:SER:H	1.73	0.54
2:I:1289:TYR:CB	2:I:1370:LEU:HD23	2.38	0.54
2:I:186:LEU:CD2	2:I:256:VAL:HG22	2.38	0.54
2:I:1947:LYS:HG2	2:I:1993:PHE:CD1	2.42	0.54
2:I:1873:ARG:NH1	2:I:2002:ASP:HB3	2.23	0.54
2:I:529:ASN:HD22	2:I:552:VAL:HG23	1.72	0.54
2:I:618:VAL:O	2:I:622:MET:HG3	2.08	0.54
2:I:700:GLU:CD	2:I:700:GLU:H	2.11	0.54
2:J:1701:GLU:H	2:J:1704:MET:CE	2.19	0.54
2:J:186:LEU:CG	2:J:256:VAL:HG22	2.37	0.54
2:J:1918:VAL:HG22	2:J:2006:HIS:O	2.08	0.54
2:K:1231:THR:CG2	2:K:1595:VAL:HG11	2.37	0.54
2:K:1885:ALA:HB2	2:K:1998:LEU:HD21	1.89	0.54
2:K:980:LEU:HD22	2:K:986:LEU:HD21	1.90	0.54
2:L:1335:PHE:CZ	2:L:1629:ILE:HD13	2.42	0.54
2:L:1878:ARG:HE	2:L:1986:PRO:HG3	1.71	0.54
2:L:747:ARG:NH1	2:L:780:SER:O	2.40	0.54
2:L:762:LEU:HD11	2:L:800:PHE:CD2	2.42	0.54
2:L:978:SER:O	2:L:981:GLN:HG2	2.08	0.54
1:A:350:ASP:HB3	1:A:353:ALA:HB2	1.89	0.54
1:B:550:LYS:HZ1	1:B:631:LYS:HE2	1.70	0.54
1:C:1142:LEU:HD12	1:C:1142:LEU:N	2.23	0.54
1:D:849:GLY:HA3	1:D:873:GLN:CG	2.38	0.54
1:E:1443:LEU:HD22	1:E:1474:ILE:HD11	1.89	0.54
1:E:1547:ARG:HG2	1:E:1604:TYR:CD1	2.42	0.54
1:E:452:ILE:HD12	1:E:467:LYS:HA	1.88	0.54
1:F:1142:LEU:HD12	1:F:1142:LEU:N	2.23	0.54
1:F:1164:ILE:HD12	1:F:1355:GLN:HG3	1.90	0.54
1:F:828:TRP:HE1	1:F:838:THR:HA	1.71	0.54
1:F:907:PHE:O	1:F:909:PRO:HD3	2.08	0.54
2:G:35:PHE:CE1	2:G:105:ILE:HD13	2.43	0.54
2:G:460:ILE:HD13	2:G:487:ILE:HD11	1.89	0.54
2:G:859:SER:CB	2:G:863:GLU:HG3	2.38	0.54
2:H:2019:SER:HA	2:H:2022:LEU:HD12	1.90	0.54
2:H:2062:THR:HG22	2:H:2064:SER:N	2.22	0.54
2:H:505:THR:O	2:H:505:THR:HG22	2.06	0.54
2:I:245:SER:HA	2:I:436:THR:OG1	2.08	0.54
2:I:251:PRO:HG3	2:I:316:PHE:CA	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:962:PHE:O	2:I:966:VAL:HG23	2.05	0.54
2:J:825:SER:HB2	2:J:1053:ILE:HG13	1.88	0.54
2:J:1436:ARG:NH2	2:J:1602:LEU:HD11	2.23	0.54
2:J:2021:LEU:O	2:J:2025:ILE:HG13	2.08	0.54
2:J:38:PRO:HG2	2:J:41:LEU:HD12	1.89	0.54
2:J:617:PHE:CE1	2:J:822:ALA:HB2	2.42	0.54
2:J:857:VAL:CG1	2:J:876:TRP:NE1	2.69	0.54
2:K:1083:ILE:O	2:K:1086:ILE:HG13	2.08	0.54
2:K:1234:ILE:HG12	2:K:1244:LEU:HD13	1.90	0.54
2:K:1620:VAL:O	2:K:1624:ALA:HB3	2.07	0.54
2:K:571:ASP:HB3	2:K:574:LYS:HB2	1.89	0.54
2:L:1128:PRO:HG2	2:L:1135:ALA:CB	2.36	0.54
2:L:1175:MET:O	2:L:1192:LEU:HD12	2.08	0.54
2:L:1142:ILE:HG13	2:L:1209:PRO:CG	2.38	0.54
2:L:1366:ILE:HG22	2:L:1366:ILE:O	2.08	0.54
2:L:251:PRO:HG3	2:L:316:PHE:CA	2.36	0.54
1:A:1213:VAL:HG13	1:A:1217:GLU:HB2	1.88	0.54
1:B:1218:VAL:HG13	1:B:1301:VAL:HG13	1.90	0.54
1:B:22:PHE:O	2:H:2006:HIS:HA	2.07	0.54
1:B:430:VAL:O	1:B:434:ILE:HG13	2.06	0.54
1:B:714:PHE:CE1	1:B:725:LEU:HD12	2.42	0.54
1:B:868:VAL:CG1	1:B:908:ILE:HD11	2.34	0.54
1:C:1209:PHE:CE2	1:C:1301:VAL:HG21	2.42	0.54
1:C:1488:SER:O	1:F:1480:ARG:NH2	2.38	0.54
1:C:415:TYR:O	1:C:419:PHE:HD1	1.91	0.54
1:D:1042:LEU:HD12	1:D:1058:PRO:HG3	1.89	0.54
1:D:350:ASP:HB3	1:D:353:ALA:HB2	1.90	0.54
1:D:881:LEU:O	1:D:884:MET:HB2	2.08	0.54
1:E:1001:GLU:O	1:E:1007:ASN:HA	2.07	0.54
1:F:1307:PHE:HA	1:F:1568:ALA:HB2	1.89	0.54
1:F:628:TYR:OH	1:F:630:LYS:HG2	2.08	0.54
2:G:120:HIS:HD2	2:G:137:VAL:HG21	1.71	0.54
2:G:38:PRO:HG2	2:G:41:LEU:HD12	1.89	0.54
2:G:451:ILE:O	2:G:455:VAL:HG23	2.08	0.54
2:G:656:ARG:HG2	2:G:656:ARG:NH1	2.22	0.54
2:G:888:ARG:O	2:G:891:ARG:HB2	2.07	0.54
2:H:1519:THR:O	2:H:1520:LYS:HB2	2.08	0.54
2:H:609:THR:HG22	2:H:633:GLY:HA3	1.90	0.54
2:H:825:SER:O	2:H:828:ALA:HB3	2.08	0.54
2:I:35:PHE:HZ	2:I:104:LEU:HB3	1.73	0.54
2:I:1234:ILE:HG12	2:I:1244:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:462:ALA:N	2:I:483:ASP:HA	2.22	0.54
2:I:752:HIS:NE2	2:I:856:THR:HG22	2.23	0.54
2:J:1377:SER:HB3	2:J:1432:GLN:HB2	1.88	0.54
2:J:728:ILE:HG22	2:J:732:LYS:HE3	1.90	0.54
2:J:930:THR:CG2	2:J:933:GLU:HG3	2.38	0.54
2:J:966:VAL:O	2:J:970:PHE:HD1	1.90	0.54
2:K:1305:LEU:HB3	2:K:1401:ILE:HD12	1.90	0.54
2:K:330:SER:N	2:L:1331:THR:HG22	2.22	0.54
2:L:1305:LEU:HB3	2:L:1401:ILE:HD12	1.89	0.54
2:L:1420:LYS:HG2	2:L:1425:PRO:CA	2.38	0.54
1:A:1367:LEU:HD22	1:A:1371:MET:HG3	1.89	0.54
1:B:1363:MET:HE3	1:B:1368:ALA:HB2	1.88	0.54
1:C:1307:PHE:HA	1:C:1568:ALA:HB2	1.89	0.54
1:D:1404:ALA:HA	1:D:1501:ALA:HB1	1.89	0.54
1:E:41:THR:HA	2:K:1689:VAL:HB	1.90	0.54
1:E:859:VAL:HG13	1:E:918:LEU:HD13	1.90	0.54
1:F:1448:ALA:HA	1:F:1451:LYS:CE	2.34	0.54
1:F:1532:LYS:HE2	1:F:1598:VAL:HG11	1.89	0.54
2:G:1305:LEU:HD11	2:G:1365:LYS:HD2	1.90	0.54
2:G:1334:ALA:HA	2:G:1341:ASP:HB2	1.90	0.54
2:H:1764:MET:HG3	2:H:1781:PHE:CE1	2.42	0.54
2:H:595:SER:HB3	2:H:602:PRO:CD	2.36	0.54
2:H:608:MET:H	2:H:612:THR:CB	2.21	0.54
2:I:1746:THR:CB	2:I:1792:THR:HG23	2.36	0.54
2:I:1890:ARG:HB3	2:I:1994:ALA:HB2	1.90	0.54
2:I:21:LEU:HD22	2:I:36:LEU:HG	1.89	0.54
2:I:750:GLY:O	2:I:865:ILE:HA	2.07	0.54
2:J:1903:VAL:O	2:J:1907:ILE:HG13	2.07	0.54
2:J:2019:SER:HA	2:J:2022:LEU:HD12	1.90	0.54
2:J:610:PRO:O	2:J:613:VAL:HG12	2.08	0.54
2:K:1346:MET:CE	2:K:1617:ARG:HH21	2.21	0.54
2:K:1289:TYR:CD2	2:K:1370:LEU:HD23	2.43	0.54
2:K:1421:ARG:HD2	2:K:1426:VAL:CG2	2.37	0.54
2:K:1637:VAL:HG11	2:K:1679:LEU:HD22	1.89	0.54
2:L:859:SER:CB	2:L:863:GLU:HG3	2.37	0.54
2:L:859:SER:HB3	2:L:863:GLU:HG3	1.90	0.54
1:A:1179:ILE:O	1:A:1183:VAL:HG23	2.07	0.54
1:A:905:LEU:HD22	1:A:911:LEU:HD21	1.88	0.54
1:B:1447:VAL:CG2	1:B:1467:LEU:HD21	2.36	0.54
1:C:1100:VAL:HG21	1:C:1150:ILE:HD12	1.89	0.54
1:D:501:ASP:OD2	1:D:503:ARG:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:636:TYR:CD1	1:D:888:ILE:HD11	2.43	0.54
1:E:1491:ASN:H	1:E:1491:ASN:HD22	1.54	0.54
1:E:1532:LYS:HE2	1:E:1598:VAL:HG11	1.88	0.54
1:E:1514:ILE:O	1:E:1547:ARG:NH1	2.41	0.54
1:E:767:HIS:CG	1:E:813:LEU:HD12	2.43	0.54
1:F:1336:GLU:O	1:F:1340:MET:HG2	2.08	0.54
1:F:1451:LYS:HE2	1:F:1463:GLU:OE2	2.08	0.54
2:G:501:TRP:HE1	2:G:528:THR:CG2	2.15	0.54
2:H:1445:THR:CG2	2:H:1498:PHE:HB2	2.38	0.54
2:H:1804:GLN:HB3	2:H:1861:PHE:CE1	2.42	0.54
1:B:24:MET:HB3	2:H:2043:VAL:HG12	1.90	0.54
2:H:460:ILE:HD13	2:H:487:ILE:HD11	1.90	0.54
2:I:1764:MET:HG3	2:I:1781:PHE:HE1	1.72	0.54
2:I:2044:THR:HG21	2:I:2054:TYR:CZ	2.43	0.54
2:J:1411:LYS:HB3	2:J:1435:TYR:HB2	1.90	0.54
2:J:1637:VAL:HG11	2:J:1679:LEU:CD1	2.34	0.54
2:J:1932:ASP:O	2:J:1936:LEU:HD23	2.08	0.54
2:J:327:PRO:CD	2:K:1338:ARG:NH2	2.70	0.54
2:J:752:HIS:CE1	2:J:847:TYR:CE2	2.81	0.54
2:K:1594:ARG:NH1	2:K:1594:ARG:CG	2.68	0.54
2:K:26:LEU:O	2:K:32:GLU:HA	2.07	0.54
2:K:713:HIS:CD2	2:K:740:ILE:HD13	2.43	0.54
2:K:778:ALA:HB2	2:K:807:PHE:CD2	2.42	0.54
2:K:914:TRP:HE1	2:K:916:GLY:HA3	1.72	0.54
2:L:1194:ARG:NH1	2:L:1194:ARG:CG	2.54	0.54
2:L:1377:SER:HB3	2:L:1432:GLN:HB2	1.89	0.54
1:A:1001:GLU:HG2	1:A:1008:ALA:HB2	1.90	0.54
1:A:1317:GLU:HB3	1:E:1250:LEU:HD22	1.88	0.54
1:A:1306:GLY:O	1:A:1357:CYS:HB2	2.08	0.54
1:A:1670:HIS:CE1	2:G:1009:ASN:ND2	2.76	0.54
1:A:40:ARG:HH21	1:A:72:THR:HG22	1.71	0.54
1:A:430:VAL:O	1:A:434:ILE:HG13	2.08	0.54
1:A:628:TYR:OH	1:A:630:LYS:HG2	2.07	0.54
1:B:569:LEU:O	1:B:573:VAL:HG23	2.08	0.54
1:B:628:TYR:OH	1:B:630:LYS:HG2	2.08	0.54
1:B:746:PHE:HB3	3:B:1901:NAP:H52N	1.90	0.54
1:B:849:GLY:HA3	1:B:873:GLN:CG	2.38	0.54
1:C:1250:LEU:HD22	1:F:1317:GLU:HB3	1.90	0.54
1:D:1229:THR:HB	1:D:1311:GLN:HG3	1.90	0.54
1:D:1451:LYS:HA	1:D:1454:ARG:NH2	2.23	0.54
1:D:1510:TRP:CZ3	1:D:1642:LEU:HA	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1280:CYS:HA	1:E:1566:LYS:O	2.08	0.54
1:F:31:THR:HG23	2:L:2040:ILE:HG21	1.90	0.54
1:F:967:PHE:HB3	1:F:968:PRO:CD	2.38	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:HD2	1.73	0.54
2:G:204:ILE:HG23	2:G:312:VAL:HG11	1.90	0.54
2:H:524:ILE:HA	2:H:527:LEU:HD12	1.90	0.54
2:H:855:ILE:HB	2:H:869:ALA:HB2	1.90	0.54
2:I:928:ASP:HA	2:I:1007:LEU:HD23	1.90	0.54
2:I:1200:ARG:N	2:I:1200:ARG:HD3	2.10	0.54
2:I:126:VAL:HG12	2:I:127:ALA:H	1.73	0.54
2:I:1963:GLU:HA	2:I:1966:ARG:HB3	1.89	0.54
2:I:35:PHE:CD2	2:I:37:VAL:HG22	2.43	0.54
2:J:1338:ARG:HH21	2:L:326:TYR:HA	1.73	0.54
2:J:138:ARG:CB	2:J:192:THR:HA	2.38	0.54
2:K:1217:ILE:O	2:K:1233:GLU:HA	2.08	0.54
2:L:1700:GLN:HA	2:L:1704:MET:CE	2.35	0.54
2:L:1963:GLU:HA	2:L:1966:ARG:HB3	1.90	0.54
2:L:861:MET:HB2	2:L:863:GLU:HG2	1.89	0.54
1:A:415:TYR:O	1:A:419:PHE:HD1	1.91	0.53
1:A:767:HIS:CB	1:A:813:LEU:HD12	2.38	0.53
1:B:1001:GLU:O	1:B:1007:ASN:HA	2.07	0.53
1:B:1038:HIS:O	1:B:1048:SER:HA	2.08	0.53
1:C:1640:LYS:HG3	1:C:1641:TYR:HD1	1.72	0.53
1:D:1090:ASP:OD1	1:D:1092:ASN:HB2	2.08	0.53
1:D:469:LEU:O	1:D:472:GLN:HB3	2.07	0.53
1:E:905:LEU:HD23	1:E:908:ILE:HD12	1.89	0.53
2:G:1445:THR:CG2	2:G:1498:PHE:HB2	2.38	0.53
2:G:192:THR:C	2:G:194:PRO:HD3	2.29	0.53
2:G:727:VAL:HA	2:G:730:ILE:HG12	1.90	0.53
2:G:917:ARG:CG	2:G:917:ARG:NH1	2.47	0.53
2:G:917:ARG:HD3	2:G:937:ARG:CZ	2.38	0.53
2:H:1234:ILE:HG12	2:H:1244:LEU:HD13	1.91	0.53
2:H:38:PRO:HG2	2:H:41:LEU:HD12	1.90	0.53
2:H:489:GLU:O	2:H:493:MET:HG3	2.09	0.53
2:I:1411:LYS:HB3	2:I:1435:TYR:HB2	1.90	0.53
2:I:1410:GLY:HA3	2:I:1436:ARG:HA	1.90	0.53
2:I:2059:HIS:HB2	2:I:2067:ILE:HG21	1.89	0.53
2:I:197:VAL:HA	2:I:262:MET:HE1	1.91	0.53
2:I:451:ILE:O	2:I:455:VAL:HG23	2.07	0.53
2:I:172:ILE:HG22	2:I:514:VAL:O	2.08	0.53
2:J:2039:TYR:O	2:J:2041:PRO:HD3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:785:SER:HA	2:J:788:THR:HB	1.89	0.53
2:K:911:GLN:HG3	2:K:1064:THR:HA	1.89	0.53
2:K:161:ALA:HB1	2:K:166:ASN:HB2	1.90	0.53
2:K:1821:MET:HA	2:K:1826:LEU:HD12	1.90	0.53
2:K:298:ALA:HB2	2:K:304:PHE:HA	1.89	0.53
2:K:622:MET:O	2:K:656:ARG:NH1	2.40	0.53
2:L:1603:PRO:HD2	2:L:1606:ILE:HD11	1.90	0.53
1:F:25:PRO:HA	2:L:2006:HIS:HB3	1.90	0.53
2:L:605:VAL:CB	2:L:628:ILE:HG13	2.32	0.53
2:L:824:THR:HG22	2:L:828:ALA:HB3	1.90	0.53
1:A:1254:PHE:HB2	1:A:1257:THR:OG1	2.08	0.53
1:A:13:LEU:HD11	2:G:2058:VAL:HG21	1.90	0.53
1:B:427:ARG:NH1	1:B:492:ILE:HG12	2.23	0.53
1:B:628:TYR:CD1	1:B:628:TYR:C	2.81	0.53
1:C:535:TYR:CG	1:C:610:GLU:N	2.76	0.53
1:E:1514:ILE:HD13	1:E:1545:LEU:HB3	1.90	0.53
1:E:1704:THR:HG23	1:E:1714:PRO:HG3	1.89	0.53
1:E:427:ARG:HG3	1:E:427:ARG:NH1	2.01	0.53
1:E:427:ARG:NH1	1:E:492:ILE:HG23	2.16	0.53
1:E:983:GLN:O	1:E:987:MET:HG3	2.08	0.53
1:F:1323:ALA:HB1	1:F:1351:PHE:HE2	1.72	0.53
2:G:486:ILE:HG23	2:G:490:LEU:HG	1.91	0.53
2:H:1436:ARG:HH22	2:H:1602:LEU:HD13	1.72	0.53
2:H:22:ARG:HD2	2:H:42:HIS:HB3	1.90	0.53
2:H:727:VAL:HA	2:H:730:ILE:HG12	1.90	0.53
2:I:1421:ARG:HD2	2:I:1426:VAL:CG2	2.38	0.53
2:I:1821:MET:HA	2:I:1826:LEU:HD12	1.90	0.53
2:I:289:ILE:HG12	2:I:493:MET:HE1	1.91	0.53
2:I:35:PHE:HD2	2:I:37:VAL:HG22	1.72	0.53
2:J:1356:ALA:CB	2:J:1397:THR:HG22	2.38	0.53
2:J:256:VAL:O	2:J:260:HIS:CD2	2.61	0.53
2:J:329:THR:HG21	2:K:1333:GLU:CG	2.39	0.53
2:K:1251:THR:HG22	2:K:1292:VAL:HG13	1.89	0.53
2:K:1445:THR:CG2	2:K:1498:PHE:HB2	2.39	0.53
2:K:1586:ASP:OD1	2:K:1588:ASN:HB2	2.08	0.53
2:K:1966:ARG:O	2:K:1970:VAL:HG23	2.08	0.53
2:K:460:ILE:O	2:K:486:ILE:HB	2.08	0.53
2:L:911:GLN:HG3	2:L:1064:THR:HA	1.89	0.53
2:K:376:ARG:NH2	2:L:1340:LYS:HG3	2.24	0.53
2:L:1436:ARG:HH22	2:L:1602:LEU:CD1	2.21	0.53
2:L:186:LEU:CG	2:L:256:VAL:HG22	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:617:PHE:CE1	2:L:822:ALA:HB2	2.43	0.53
2:L:824:THR:HB	2:L:829:LYS:HE3	1.90	0.53
1:A:1120:LYS:HD3	1:A:1129:ILE:HG12	1.90	0.53
1:A:1505:GLY:O	1:A:1509:THR:HG23	2.08	0.53
1:B:1014:MET:O	1:B:1590:ARG:NH2	2.37	0.53
1:B:486:VAL:HG13	1:B:648:LEU:H	1.74	0.53
1:C:1094:LYS:HB3	1:C:1154:LEU:HB2	1.90	0.53
1:C:1330:GLU:OE2	1:C:1342:ARG:NH2	2.41	0.53
1:C:1547:ARG:HG2	1:C:1604:TYR:HD1	1.71	0.53
1:C:1686:PRO:HB2	1:C:1713:PHE:CE1	2.43	0.53
1:C:904:GLY:HA2	1:C:906:GLN:OE1	2.07	0.53
1:D:1001:GLU:HG2	1:D:1008:ALA:HB2	1.90	0.53
1:D:486:VAL:HG13	1:D:648:LEU:H	1.73	0.53
1:E:1108:PRO:HA	1:E:1140:VAL:O	2.08	0.53
1:E:382:ILE:HD12	1:E:761:SER:HB3	1.90	0.53
1:F:452:ILE:HD12	1:F:467:LYS:HA	1.89	0.53
2:G:506:VAL:CG1	2:G:506:VAL:O	2.57	0.53
2:H:1342:PHE:HE2	2:H:1391:VAL:CG2	2.21	0.53
2:H:1324:PHE:N	2:H:1583:VAL:HG11	2.23	0.53
2:I:1370:LEU:HA	2:I:1435:TYR:CE2	2.42	0.53
2:I:1709:TYR:HD2	2:I:1709:TYR:C	2.11	0.53
2:I:1986:PRO:O	2:I:1987:VAL:HB	2.08	0.53
2:I:2005:PHE:HA	2:I:2010:LEU:HD11	1.91	0.53
2:I:609:THR:HG22	2:I:633:GLY:HA3	1.88	0.53
2:I:656:ARG:NH1	2:I:656:ARG:HG2	2.20	0.53
2:I:762:LEU:HD11	2:I:800:PHE:CD2	2.44	0.53
2:I:903:ILE:HD11	2:I:914:TRP:CZ2	2.43	0.53
2:J:228:LEU:O	2:J:232:HIS:HD2	1.90	0.53
2:J:595:SER:HB3	2:J:602:PRO:CD	2.38	0.53
2:J:747:ARG:NH1	2:J:780:SER:HB3	2.20	0.53
2:J:938:MET:HE2	2:J:959:THR:HG22	1.89	0.53
2:K:1746:THR:CB	2:K:1792:THR:HG23	2.35	0.53
2:K:2059:HIS:HB2	2:K:2067:ILE:HG21	1.90	0.53
2:L:1074:LYS:HE3	2:L:1075:TYR:CE1	2.40	0.53
2:L:1203:TYR:HB3	2:L:1220:ARG:HB2	1.89	0.53
2:L:1616:VAL:HG11	2:L:1679:LEU:CD1	2.31	0.53
1:A:1017:TYR:N	1:A:1017:TYR:HD1	2.05	0.53
1:A:636:TYR:CZ	1:A:640:LEU:HD22	2.42	0.53
1:B:1307:PHE:HB3	1:B:1357:CYS:HB3	1.90	0.53
1:B:13:LEU:HD11	2:H:2058:VAL:HG21	1.90	0.53
1:D:542:GLN:HB3	1:D:579:MET:CE	2.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:GLN:O	1:E:569:LEU:HG	2.07	0.53
1:E:628:TYR:HD1	1:E:629:SER:N	2.06	0.53
1:C:1435:TRP:HD1	1:F:1427:LEU:HD11	1.72	0.53
1:F:382:ILE:HD12	1:F:761:SER:HB3	1.90	0.53
2:G:1224:GLN:HA	2:G:1224:GLN:OE1	2.09	0.53
2:G:2019:SER:HA	2:G:2022:LEU:HD12	1.89	0.53
2:G:300:THR:H	2:G:303:GLU:HB3	1.73	0.53
2:G:614:PRO:O	2:G:618:VAL:HG12	2.08	0.53
2:G:776:LEU:HG	2:G:807:PHE:CE2	2.43	0.53
2:H:48:LEU:HD13	2:H:101:VAL:HG11	1.90	0.53
2:H:490:LEU:HA	2:H:493:MET:SD	2.49	0.53
2:H:605:VAL:CB	2:H:628:ILE:HG13	2.33	0.53
2:I:1411:LYS:HE3	2:I:1441:ASP:OD2	2.09	0.53
2:I:1464:LEU:HD13	2:I:1468:ARG:HG3	1.91	0.53
1:C:30:GLU:HB2	2:I:2045:ALA:HB1	1.90	0.53
2:I:1067:LEU:HB2	4:I:2101:FMN:HM71	1.88	0.53
2:I:290:VAL:HG13	2:I:314:LEU:HD23	1.91	0.53
2:I:609:THR:CG2	2:I:633:GLY:HA3	2.39	0.53
2:J:1555:VAL:HG21	2:J:1824:LYS:HA	1.90	0.53
2:J:1878:ARG:HE	2:J:1986:PRO:HG3	1.73	0.53
2:J:752:HIS:NE2	2:J:856:THR:HG22	2.23	0.53
2:J:931:TYR:O	2:J:935:VAL:HG12	2.09	0.53
2:K:186:LEU:CG	2:K:256:VAL:HG22	2.37	0.53
2:K:256:VAL:O	2:K:260:HIS:CD2	2.62	0.53
2:L:1064:THR:HG22	2:L:1065:CYS:N	2.22	0.53
2:L:1093:ASP:O	2:L:1097:PHE:HD1	1.91	0.53
2:L:161:ALA:HB1	2:L:166:ASN:HB2	1.89	0.53
2:L:1845:VAL:CG2	2:L:1856:LEU:HD22	2.39	0.53
2:L:2062:THR:HG22	2:L:2064:SER:N	2.23	0.53
2:L:157:ALA:HB3	2:L:565:ALA:HB3	1.90	0.53
1:A:415:TYR:CD2	1:A:1614:THR:HA	2.43	0.53
1:A:42:GLU:OE1	2:G:1688:PRO:HB3	2.08	0.53
1:C:1100:VAL:HG21	1:C:1150:ILE:CD1	2.38	0.53
1:C:1179:ILE:O	1:C:1183:VAL:HG23	2.08	0.53
1:C:40:ARG:HH21	1:C:72:THR:HG22	1.73	0.53
1:C:731:ASP:HB3	1:C:735:GLY:HA3	1.91	0.53
1:C:844:ILE:N	1:C:844:ILE:HD12	2.23	0.53
1:D:1038:HIS:O	1:D:1048:SER:HA	2.08	0.53
1:D:421:ARG:NH2	1:D:1613:LYS:HB3	2.23	0.53
1:F:1565:PRO:O	1:F:1567:GLY:N	2.42	0.53
1:F:628:TYR:HD1	1:F:629:SER:N	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:767:HIS:CG	1:F:813:LEU:HD12	2.44	0.53
2:G:1764:MET:HG3	2:G:1781:PHE:CE1	2.44	0.53
2:G:2062:THR:HG22	2:G:2064:SER:N	2.24	0.53
2:G:26:LEU:O	2:G:32:GLU:HA	2.09	0.53
2:H:1224:GLN:HA	2:H:1224:GLN:OE1	2.08	0.53
2:H:1616:VAL:HG11	2:H:1679:LEU:CD1	2.32	0.53
2:H:2057:GLU:HA	2:H:2060:ARG:HH12	1.70	0.53
2:H:250:PHE:CB	2:H:251:PRO:HD3	2.39	0.53
2:H:610:PRO:HD2	4:H:2101:FMN:C6	2.25	0.53
2:H:752:HIS:CE1	2:H:856:THR:HG21	2.43	0.53
2:I:1356:ALA:CB	2:I:1397:THR:HG22	2.38	0.53
2:I:1643:VAL:CG1	2:I:1649:ILE:HD11	2.38	0.53
2:I:1745:LEU:HB3	2:I:1799:LEU:CD2	2.38	0.53
2:I:192:THR:C	2:I:194:PRO:HD3	2.28	0.53
2:J:1288:PHE:CE2	2:J:1292:VAL:HG21	2.43	0.53
2:J:2005:PHE:HA	2:J:2010:LEU:HD11	1.90	0.53
2:J:798:THR:HA	2:J:802:TYR:O	2.08	0.53
1:E:1670:HIS:CE1	2:K:1009:ASN:ND2	2.77	0.53
2:K:1099:LEU:HD12	2:K:1103:TYR:CB	2.38	0.53
2:K:1607:THR:HB	2:K:1643:VAL:O	2.08	0.53
2:K:485:ASP:O	2:K:488:PRO:HD2	2.09	0.53
2:K:613:VAL:HG13	2:K:614:PRO:CD	2.38	0.53
2:L:609:THR:HG22	2:L:633:GLY:HA3	1.91	0.53
1:A:1017:TYR:N	1:A:1017:TYR:CD1	2.76	0.53
1:A:1337:PRO:HA	1:A:1340:MET:CG	2.38	0.53
1:B:1692:GLN:HG3	1:B:1696:PHE:CE2	2.44	0.53
1:B:41:THR:HA	2:H:1689:VAL:HB	1.90	0.53
1:C:1038:HIS:O	1:C:1048:SER:HA	2.08	0.53
1:E:960:ARG:HG3	1:E:960:ARG:HH11	1.73	0.53
2:G:152:LYS:HB2	2:G:154:TYR:CE1	2.43	0.53
2:G:604:MET:CE	2:G:811:MET:HB2	2.39	0.53
2:H:2021:LEU:O	2:H:2025:ILE:HG13	2.09	0.53
2:H:268:LEU:HD12	2:H:275:LEU:HD11	1.90	0.53
2:H:440:HIS:HD2	2:H:497:ASP:O	1.90	0.53
2:H:613:VAL:HG13	2:H:614:PRO:HD3	1.89	0.53
2:H:685:VAL:CG1	2:H:687:ILE:HG13	2.38	0.53
2:H:762:LEU:HD11	2:H:800:PHE:CD2	2.43	0.53
2:I:1305:LEU:H	2:I:1305:LEU:HD12	1.72	0.53
2:I:94:ALA:HB1	2:I:97:THR:OG1	2.07	0.53
2:J:1362:PHE:N	2:J:1363:PRO:HD2	2.24	0.53
2:J:952:ASP:OD1	2:J:953:PRO:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1007:LEU:N	2:K:1007:LEU:HD12	2.17	0.53
2:K:1074:LYS:HE3	2:K:1075:TYR:CE1	2.41	0.53
2:K:141:TYR:OH	2:K:267:THR:HG23	2.08	0.53
2:L:1207:THR:O	2:L:1215:THR:HG23	2.09	0.53
2:L:21:LEU:HA	2:L:37:VAL:O	2.08	0.53
2:L:460:ILE:HD13	2:L:487:ILE:HD11	1.90	0.53
2:L:784:GLY:HA3	2:L:786:GLU:OE2	2.09	0.53
2:L:92:GLU:HB3	2:L:95:HIS:NE2	2.24	0.53
1:C:1113:LYS:O	1:C:1117:GLU:HG3	2.08	0.53
1:C:1260:ALA:O	1:C:1264:MET:HG3	2.08	0.53
1:C:1702:ARG:HG2	1:C:1702:ARG:NH1	2.12	0.53
1:C:469:LEU:O	1:C:472:GLN:HB3	2.08	0.53
1:C:965:TYR:HE1	1:C:1669:PHE:CD1	2.25	0.53
1:D:427:ARG:CG	1:D:427:ARG:NH1	2.56	0.53
1:E:503:ARG:HA	1:E:933:ILE:HD11	1.91	0.53
1:F:1547:ARG:HG2	1:F:1604:TYR:HD1	1.72	0.53
1:F:575:ARG:HG2	1:F:579:MET:SD	2.49	0.53
2:G:1770:ASN:HB2	2:G:1776:LYS:CE	2.37	0.53
2:G:1963:GLU:HA	2:G:1966:ARG:HB3	1.91	0.53
2:G:1982:ALA:O	2:G:1984:PRO:HD3	2.08	0.53
2:H:1410:GLY:HA3	2:H:1436:ARG:HA	1.90	0.53
2:H:2039:TYR:O	2:H:2041:PRO:HD3	2.09	0.53
2:H:501:TRP:HE1	2:H:528:THR:CG2	2.15	0.53
2:H:875:PHE:O	2:H:878:GLU:HB2	2.09	0.53
2:H:962:PHE:O	2:H:966:VAL:HG23	2.09	0.53
2:I:912:LYS:HB3	2:I:1030:PHE:HA	1.91	0.53
2:I:256:VAL:O	2:I:260:HIS:CD2	2.61	0.53
2:I:820:LYS:HG3	2:I:821:GLU:HG2	1.91	0.53
2:J:580:LEU:HD21	2:J:1095:ILE:HA	1.89	0.53
2:J:1175:MET:HA	2:J:1274:ILE:CD1	2.39	0.53
2:J:276:LEU:HD21	2:J:296:ALA:HA	1.91	0.53
2:K:861:MET:HB2	2:K:863:GLU:HG2	1.90	0.53
2:L:1795:SER:HB3	2:L:1799:LEU:HD12	1.91	0.53
2:L:298:ALA:HB2	2:L:304:PHE:HA	1.90	0.53
1:B:1505:GLY:O	1:B:1509:THR:HG23	2.08	0.53
1:B:1606:VAL:O	1:B:1608:PRO:HD3	2.09	0.53
1:B:612:ILE:HA	1:B:628:TYR:CE2	2.44	0.53
1:B:905:LEU:HD23	1:B:908:ILE:HD12	1.91	0.53
1:C:1431:GLN:OE1	1:F:1431:GLN:HG2	2.09	0.53
1:C:1451:LYS:HA	1:C:1454:ARG:NH2	2.23	0.53
1:D:1132:ILE:HD12	1:D:1137:GLN:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:684:THR:HG21	1:D:691:VAL:HG11	1.90	0.53
1:E:628:TYR:OH	1:E:630:LYS:HG2	2.09	0.53
1:E:689:ARG:NH2	1:E:1591:ASN:OD1	2.41	0.53
1:F:1132:ILE:HD12	1:F:1137:GLN:HB2	1.90	0.53
1:F:415:TYR:O	1:F:419:PHE:HD1	1.92	0.53
1:A:551:LEU:CD2	1:F:562:SER:HB3	2.38	0.53
1:A:962:ASN:ND2	2:G:1006:GLN:HE22	1.97	0.53
2:G:1653:LEU:HD21	2:G:1667:VAL:HG13	1.90	0.53
2:G:1750:GLY:O	2:G:1755:LYS:HE3	2.08	0.53
2:G:1918:VAL:CG1	2:G:2006:HIS:HB2	2.37	0.53
2:G:2044:THR:HG22	2:G:2046:LYS:H	1.73	0.53
2:G:197:VAL:HG21	2:G:263:ILE:HD11	1.91	0.53
2:G:788:THR:HG22	2:G:1094:HIS:HE1	1.73	0.53
2:G:882:LYS:HB3	2:G:898:ARG:NH1	2.24	0.53
2:H:1305:LEU:H	2:H:1305:LEU:CD1	2.20	0.53
2:H:2062:THR:HG22	2:H:2063:GLY:N	2.23	0.53
2:H:21:LEU:HD22	2:H:36:LEU:HG	1.89	0.53
2:I:462:ALA:H	2:I:483:ASP:HA	1.72	0.53
2:I:653:PRO:O	2:I:656:ARG:HB2	2.09	0.53
2:I:859:SER:CB	2:I:863:GLU:HG3	2.38	0.53
2:J:161:ALA:HB1	2:J:166:ASN:HB2	1.90	0.53
1:D:22:PHE:O	2:J:2006:HIS:HA	2.09	0.53
2:J:747:ARG:NH2	2:J:757:PHE:CE1	2.77	0.53
2:K:1128:PRO:HG2	2:K:1135:ALA:CB	2.39	0.53
2:K:1356:ALA:CB	2:K:1397:THR:HG22	2.38	0.53
2:K:197:VAL:HG12	2:K:201:ILE:HG13	1.91	0.53
2:K:792:LEU:HD23	2:K:1094:HIS:ND1	2.24	0.53
2:L:1750:GLY:O	2:L:1755:LYS:HE3	2.08	0.53
2:L:192:THR:C	2:L:194:PRO:HD3	2.28	0.53
1:A:1269:SER:O	1:E:1386:THR:HB	2.09	0.53
1:A:628:TYR:HD1	1:A:629:SER:N	2.06	0.53
1:C:452:ILE:HD12	1:C:467:LYS:HA	1.91	0.53
1:D:1505:GLY:O	1:D:1509:THR:HG23	2.09	0.53
1:E:1052:ASP:O	1:E:1055:THR:O	2.26	0.53
1:E:1094:LYS:HB3	1:E:1154:LEU:HB2	1.91	0.53
1:E:968:PRO:HD2	1:E:1374:PRO:HB3	1.90	0.53
1:E:1307:PHE:HA	1:E:1568:ALA:HB2	1.90	0.53
1:E:636:TYR:CD1	1:E:888:ILE:HD11	2.44	0.53
1:F:1491:ASN:H	1:F:1491:ASN:HD22	1.56	0.53
1:F:746:PHE:CE1	1:F:800:PRO:HG3	2.43	0.53
2:G:1142:ILE:HG13	2:G:1209:PRO:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1805:PHE:O	2:G:1808:PRO:HD2	2.09	0.53
2:G:595:SER:HB3	2:G:602:PRO:CD	2.38	0.53
2:H:1156:ASP:HB2	2:H:1159:SER:H	1.73	0.53
2:H:1436:ARG:NH2	2:H:1602:LEU:CD1	2.72	0.53
2:H:580:LEU:HD11	2:H:1098:LEU:HB3	1.91	0.53
2:H:699:ILE:HD12	2:H:699:ILE:N	2.24	0.53
2:I:1317:ASN:HB3	2:I:1320:ALA:HB3	1.90	0.53
2:I:1678:VAL:O	2:I:1679:LEU:HD23	2.09	0.53
2:I:379:GLY:O	2:I:391:VAL:HG13	2.09	0.53
2:I:170:TYR:CE2	2:I:507:PHE:HB3	2.44	0.53
2:I:825:SER:CB	2:I:1053:ILE:HG13	2.39	0.53
2:I:915:PHE:O	2:I:915:PHE:CD2	2.62	0.53
2:J:21:LEU:HD22	2:J:36:LEU:HG	1.91	0.53
2:J:608:MET:H	2:J:612:THR:CB	2.20	0.53
2:J:609:THR:HG23	4:J:2101:FMN:O4	2.08	0.53
2:J:376:ARG:HH22	2:K:1340:LYS:CE	2.22	0.53
2:K:613:VAL:HG23	2:K:635:TYR:CE1	2.44	0.53
2:K:327:PRO:HD2	2:L:1338:ARG:NH2	2.24	0.53
2:L:1982:ALA:O	2:L:1984:PRO:HD3	2.09	0.53
2:L:529:ASN:HD22	2:L:552:VAL:CG2	2.22	0.53
1:A:960:ARG:HH11	1:A:960:ARG:HG3	1.74	0.53
1:B:1330:GLU:OE2	1:B:1342:ARG:NH2	2.41	0.53
1:C:501:ASP:OD2	1:C:503:ARG:HB2	2.09	0.53
1:D:415:TYR:CD2	1:D:1614:THR:HA	2.44	0.53
1:D:570:TYR:HD2	1:D:574:ILE:HD11	1.73	0.53
1:D:628:TYR:C	1:D:628:TYR:CD1	2.81	0.53
1:E:1254:PHE:HB2	1:E:1257:THR:OG1	2.09	0.53
1:E:1306:GLY:O	1:E:1357:CYS:HB2	2.08	0.53
1:E:1451:LYS:HE2	1:E:1463:GLU:OE2	2.09	0.53
1:E:1512:LEU:HD21	1:E:1641:TYR:CE2	2.43	0.53
1:E:486:VAL:HG13	1:E:648:LEU:H	1.74	0.53
1:F:22:PHE:CE2	2:L:2017:PHE:CG	2.91	0.53
2:G:1007:LEU:H	2:G:1007:LEU:CD1	2.15	0.53
2:G:610:PRO:CD	4:G:2101:FMN:H6	2.26	0.53
2:G:379:GLY:O	2:G:391:VAL:HG13	2.09	0.53
2:G:778:ALA:HB2	2:G:807:PHE:CD2	2.45	0.53
2:G:820:LYS:HG3	2:G:821:GLU:HG2	1.90	0.53
2:G:930:THR:O	2:G:934:VAL:HG23	2.08	0.53
2:G:942:MET:HE2	2:G:955:LEU:HD13	1.90	0.53
2:I:1176:PHE:CE1	2:I:1192:LEU:HD13	2.44	0.53
2:I:1180:VAL:HG11	2:I:1187:PHE:CG	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1566:LYS:O	2:I:1568:PRO:HD3	2.09	0.53
2:I:613:VAL:HG13	2:I:614:PRO:HD3	1.91	0.53
2:I:92:GLU:HB3	2:I:95:HIS:NE2	2.24	0.53
2:I:980:LEU:HD22	2:I:986:LEU:HD21	1.91	0.53
2:J:1180:VAL:HG11	2:J:1187:PHE:CG	2.43	0.53
2:J:1871:VAL:HG21	2:J:2003:VAL:HA	1.91	0.53
1:E:59:ARG:NH1	2:K:1926:GLN:HE21	2.07	0.53
2:K:618:VAL:HG11	2:K:648:ILE:HD11	1.91	0.53
2:K:743:TRP:CD2	2:K:761:ILE:HD11	2.44	0.53
2:L:1171:TRP:CD1	2:L:1172:ARG:N	2.77	0.53
2:L:1317:ASN:HB3	2:L:1320:ALA:CB	2.39	0.53
2:L:1554:PRO:HG3	2:L:1659:ILE:HD11	1.90	0.53
2:L:1620:VAL:O	2:L:1624:ALA:HB3	2.09	0.53
1:A:558:LEU:HA	1:F:557:ARG:HH11	1.73	0.52
1:A:766:ALA:HA	1:A:769:ILE:HD12	1.91	0.52
1:A:967:PHE:CG	1:A:1374:PRO:HG3	2.44	0.52
1:B:1032:MET:HE2	1:B:1165:PRO:HB3	1.91	0.52
1:B:1494:TRP:HE1	1:B:1509:THR:HG21	1.74	0.52
1:C:929:ARG:O	1:C:933:ILE:HG13	2.09	0.52
1:D:1491:ASN:H	1:D:1491:ASN:HD22	1.56	0.52
1:D:673:LEU:O	1:D:678:ALA:HB3	2.10	0.52
1:D:988:VAL:HG12	1:D:990:LEU:HD23	1.90	0.52
1:E:1213:VAL:HG13	1:E:1217:GLU:HB2	1.91	0.52
1:E:1213:VAL:HG22	1:E:1300:ARG:CZ	2.39	0.52
1:E:714:PHE:CE1	1:E:725:LEU:HD12	2.44	0.52
1:F:998:GLY:CA	1:F:1361:VAL:HG13	2.31	0.52
1:F:859:VAL:HG13	1:F:918:LEU:HD13	1.91	0.52
1:F:967:PHE:HB3	1:F:968:PRO:HD2	1.91	0.52
2:G:1288:PHE:CE2	2:G:1292:VAL:HG21	2.43	0.52
2:G:1620:VAL:O	2:G:1624:ALA:HB3	2.09	0.52
2:G:1885:ALA:HB2	2:G:1998:LEU:HD21	1.90	0.52
2:G:325:ALA:HB2	2:G:447:ALA:HB2	1.90	0.52
2:G:992:ALA:O	2:G:995:ARG:HB3	2.09	0.52
2:H:1053:ILE:HD11	2:H:1061:VAL:HG13	1.91	0.52
2:H:1370:LEU:HA	2:H:1435:TYR:CE2	2.43	0.52
2:H:1878:ARG:HE	2:H:1986:PRO:HG3	1.73	0.52
2:H:1913:TRP:HZ3	2:H:1938:THR:HG21	1.73	0.52
2:H:613:VAL:N	2:H:614:PRO:CD	2.72	0.52
2:H:752:HIS:NE2	2:H:856:THR:HG21	2.24	0.52
2:I:1293:TRP:CZ3	2:I:1370:LEU:HD21	2.44	0.52
2:I:410:ALA:HB1	2:I:414:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1176:PHE:CE1	2:J:1192:LEU:HD13	2.44	0.52
2:J:1234:ILE:HG12	2:J:1244:LEU:HD13	1.91	0.52
2:J:1411:LYS:HE3	2:J:1441:ASP:OD2	2.09	0.52
2:J:1821:MET:HA	2:J:1826:LEU:HD12	1.91	0.52
2:J:196:PHE:H	2:J:196:PHE:HD2	1.56	0.52
2:J:1890:ARG:HB3	2:J:1994:ALA:HB2	1.92	0.52
2:J:655:GLY:HA3	2:J:1272:ALA:CB	2.39	0.52
2:K:1346:MET:CE	2:K:1617:ARG:NH2	2.72	0.52
2:K:1653:LEU:CD2	2:K:1667:VAL:HG13	2.38	0.52
2:K:1813:MET:HG3	2:K:1814:GLU:N	2.24	0.52
2:K:1946:LEU:HD22	2:K:1951:ILE:HG12	1.92	0.52
2:K:440:HIS:NE2	2:K:499:VAL:HG23	2.25	0.52
2:K:775:VAL:HG12	2:K:777:VAL:HG23	1.90	0.52
2:K:930:THR:HA	2:K:1007:LEU:HA	1.91	0.52
2:K:929:MET:HE1	2:K:934:VAL:HG22	1.91	0.52
2:L:1067:LEU:O	2:L:1068:GLN:HG2	2.10	0.52
2:L:1279:GLU:H	2:L:1279:GLU:CD	2.12	0.52
2:L:1500:ASN:HB2	2:L:1503:VAL:H	1.74	0.52
2:L:613:VAL:N	2:L:614:PRO:CD	2.72	0.52
1:A:1297:GLY:HA2	1:E:1496:ARG:NH2	2.23	0.52
1:A:414:TYR:CE2	1:A:418:ILE:CD1	2.92	0.52
1:B:1307:PHE:HB3	1:B:1357:CYS:CB	2.39	0.52
1:B:1702:ARG:HG2	1:B:1702:ARG:NH1	2.16	0.52
1:B:30:GLU:HB2	2:H:2045:ALA:CB	2.39	0.52
1:C:1337:PRO:HA	1:C:1340:MET:CG	2.39	0.52
1:C:881:LEU:O	1:C:884:MET:HB2	2.09	0.52
1:D:904:GLY:HA2	1:D:906:GLN:OE1	2.08	0.52
1:E:487:TYR:CE2	1:E:881:LEU:HD13	2.45	0.52
1:F:868:VAL:HG11	1:F:908:ILE:CD1	2.35	0.52
2:G:221:TYR:CE2	2:G:225:LEU:HD22	2.44	0.52
2:G:930:THR:CG2	2:G:933:GLU:HG3	2.38	0.52
2:H:1248:GLU:HA	2:H:1248:GLU:OE1	2.08	0.52
2:H:1457:HIS:ND1	2:H:1487:THR:HG22	2.24	0.52
2:H:378:ILE:HD11	2:H:398:LEU:HA	1.92	0.52
2:H:411:PRO:HD2	2:H:414:LEU:CD1	2.39	0.52
2:I:21:LEU:HD13	2:I:36:LEU:HD21	1.92	0.52
2:I:378:ILE:HD11	2:I:398:LEU:HA	1.90	0.52
2:I:727:VAL:HA	2:I:730:ILE:HG12	1.90	0.52
2:I:422:THR:HG23	2:I:844:GLU:OE2	2.09	0.52
2:J:1207:THR:O	2:J:1215:THR:HG23	2.09	0.52
2:J:260:HIS:CE1	2:J:543:GLY:HA2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:882:LYS:HB3	2:J:898:ARG:NH1	2.24	0.52
2:J:992:ALA:O	2:J:995:ARG:HB3	2.10	0.52
2:K:1157:VAL:HG13	2:K:1197:ALA:HA	1.90	0.52
2:K:1180:VAL:HG11	2:K:1187:PHE:CG	2.41	0.52
2:K:1464:LEU:HD13	2:K:1468:ARG:HG3	1.90	0.52
2:L:1745:LEU:HD12	2:L:1746:THR:N	2.23	0.52
2:L:490:LEU:HA	2:L:493:MET:SD	2.50	0.52
2:L:837:GLY:HA3	2:L:1074:LYS:HG2	1.91	0.52
1:A:1078:ILE:HG23	1:A:1352:MET:CE	2.40	0.52
1:A:1514:ILE:HD13	1:A:1545:LEU:HB3	1.90	0.52
1:B:679:LYS:HG2	1:B:708:GLN:HB3	1.91	0.52
1:C:983:GLN:HB3	1:C:1418:ILE:HG21	1.91	0.52
1:D:1169:ASP:OD2	1:D:1171:ARG:HB2	2.10	0.52
1:D:1323:ALA:HB1	1:D:1351:PHE:CE2	2.44	0.52
1:D:1510:TRP:HZ3	1:D:1642:LEU:HA	1.74	0.52
1:D:487:TYR:CE2	1:D:881:LEU:HD13	2.45	0.52
1:D:558:LEU:HB2	1:D:563:GLN:CG	2.35	0.52
1:D:382:ILE:HD12	1:D:761:SER:HB3	1.91	0.52
1:D:983:GLN:O	1:D:987:MET:HG3	2.10	0.52
1:E:1703:VAL:CG1	1:E:1711:LEU:HB3	2.36	0.52
1:F:1335:ARG:HH11	1:F:1339:GLU:HG2	1.73	0.52
1:F:985:ARG:HB3	1:F:1422:ARG:HH22	1.75	0.52
1:F:336:PHE:O	1:F:339:GLN:HB2	2.09	0.52
1:F:636:TYR:CD1	1:F:888:ILE:HD11	2.44	0.52
2:G:1813:MET:HG3	2:G:1814:GLU:N	2.23	0.52
2:G:718:PRO:HG3	2:G:727:VAL:HG21	1.91	0.52
2:G:794:GLY:O	2:G:804:PRO:HA	2.09	0.52
2:H:35:PHE:HZ	2:H:104:LEU:HB3	1.74	0.52
2:H:35:PHE:CE1	2:H:105:ILE:HD13	2.44	0.52
2:H:1176:PHE:CE1	2:H:1192:LEU:HD13	2.45	0.52
2:H:1383:VAL:HG23	2:H:1428:TYR:CE1	2.43	0.52
2:H:1411:LYS:HB3	2:H:1435:TYR:HB2	1.90	0.52
2:H:1468:ARG:NH1	2:H:1475:LEU:HD22	2.24	0.52
2:H:979:LEU:HB2	2:H:996:ILE:HG23	1.91	0.52
2:I:1064:THR:HG22	2:I:1065:CYS:N	2.24	0.52
2:I:1383:VAL:HG23	2:I:1428:TYR:CE1	2.43	0.52
2:I:1770:ASN:HB2	2:I:1776:LYS:CE	2.39	0.52
2:J:48:LEU:HD13	2:J:101:VAL:HG11	1.91	0.52
2:J:1350:ILE:HG22	2:J:1429:VAL:HG11	1.91	0.52
2:J:391:VAL:HG12	2:J:398:LEU:HD21	1.91	0.52
2:J:779:GLY:HA3	2:J:811:MET:CE	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:962:PHE:O	2:J:965:ARG:HB3	2.08	0.52
2:K:1913:TRP:HZ3	2:K:1938:THR:HG21	1.74	0.52
2:K:196:PHE:H	2:K:196:PHE:HD2	1.58	0.52
2:K:752:HIS:NE2	2:K:856:THR:HG21	2.24	0.52
2:K:857:VAL:CG1	2:K:876:TRP:CD1	2.92	0.52
2:L:915:PHE:HB2	2:L:1030:PHE:CD1	2.44	0.52
2:L:1383:VAL:HG23	2:L:1428:TYR:CE1	2.42	0.52
2:L:934:VAL:O	2:L:938:MET:HG3	2.08	0.52
1:A:746:PHE:CE1	1:A:800:PRO:HG3	2.44	0.52
1:B:1448:ALA:CA	1:B:1451:LYS:HE3	2.33	0.52
1:B:1640:LYS:HG3	1:B:1641:TYR:N	2.23	0.52
1:B:336:PHE:O	1:B:339:GLN:HB2	2.09	0.52
1:C:1254:PHE:HB2	1:C:1257:THR:OG1	2.10	0.52
1:C:960:ARG:HG3	1:C:960:ARG:HH11	1.75	0.52
1:D:407:ARG:NH1	1:D:1606:VAL:HG23	2.24	0.52
1:D:427:ARG:HH11	1:D:492:ILE:HG12	1.75	0.52
1:D:929:ARG:O	1:D:933:ILE:HG13	2.10	0.52
1:A:1480:ARG:NH2	1:E:1488:SER:O	2.37	0.52
1:E:1005:TRP:HE1	1:E:1561:LEU:HD22	1.71	0.52
1:E:498:THR:HG21	1:E:858:LEU:CA	2.35	0.52
1:F:963:LEU:HD23	1:F:1023:GLU:HB3	1.90	0.52
1:F:1691:ILE:HG22	1:F:1695:VAL:HG23	1.91	0.52
1:F:486:VAL:HG13	1:F:648:LEU:H	1.75	0.52
1:F:767:HIS:CB	1:F:813:LEU:HD12	2.38	0.52
2:G:290:VAL:HG13	2:G:314:LEU:HD23	1.92	0.52
2:G:378:ILE:HD11	2:G:398:LEU:HA	1.91	0.52
2:G:952:ASP:OD1	2:G:953:PRO:HD2	2.09	0.52
2:H:1181:PHE:CD1	2:H:1191:PRO:HD2	2.43	0.52
2:H:1421:ARG:HG2	2:H:1421:ARG:O	2.08	0.52
2:H:1637:VAL:HG11	2:H:1679:LEU:HD22	1.90	0.52
2:H:256:VAL:O	2:H:260:HIS:CD2	2.62	0.52
2:H:580:LEU:HD21	2:H:1095:ILE:HA	1.92	0.52
2:H:903:ILE:HD11	2:H:914:TRP:CZ2	2.45	0.52
2:I:1175:MET:O	2:I:1192:LEU:HD12	2.10	0.52
2:I:1554:PRO:HA	2:I:1659:ILE:HG12	1.90	0.52
2:I:1897:GLU:HG2	2:I:1901:GLN:NE2	2.25	0.52
2:K:837:GLY:HA3	2:K:1074:LYS:HG2	1.91	0.52
2:L:1369:ASP:OD1	2:L:1371:LEU:HB3	2.09	0.52
2:L:674:ILE:HD13	2:L:705:TYR:HE2	1.72	0.52
1:B:546:ARG:HH11	1:B:631:LYS:HZ1	1.57	0.52
1:C:418:ILE:HA	1:C:462:THR:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:767:HIS:CB	1:C:813:LEU:HD12	2.39	0.52
1:D:1534:GLU:HG2	1:D:1625:PHE:CE1	2.45	0.52
1:E:1079:ARG:CG	1:E:1079:ARG:NH1	2.70	0.52
1:F:1004:PRO:HD3	1:F:1572:TRP:CH2	2.44	0.52
1:F:1640:LYS:HG3	1:F:1641:TYR:HD1	1.73	0.52
1:F:1510:TRP:HZ3	1:F:1642:LEU:HA	1.74	0.52
2:G:1500:ASN:HB2	2:G:1503:VAL:H	1.74	0.52
2:G:1846:ALA:HB3	2:G:1847:LEU:HD12	1.91	0.52
2:H:1074:LYS:HG3	2:H:1075:TYR:CD1	2.45	0.52
2:H:1157:VAL:HG13	2:H:1197:ALA:HA	1.90	0.52
2:H:1279:GLU:CD	2:H:1279:GLU:H	2.12	0.52
2:H:1725:HIS:CD2	2:H:1854:GLU:HB3	2.45	0.52
1:B:88:ILE:HG21	2:H:1821:MET:CE	2.40	0.52
2:H:728:ILE:HG22	2:H:732:LYS:HE3	1.90	0.52
2:H:792:LEU:HD23	2:H:1094:HIS:CE1	2.44	0.52
2:H:92:GLU:HA	2:H:95:HIS:CE1	2.45	0.52
2:I:1053:ILE:HD11	2:I:1061:VAL:HG13	1.91	0.52
2:I:1403:ALA:HB2	2:I:1447:GLN:HG3	1.91	0.52
2:I:1324:PHE:N	2:I:1583:VAL:HG11	2.25	0.52
2:I:834:ASP:O	2:I:836:PRO:HD3	2.10	0.52
2:J:1017:LEU:HD21	2:J:1032:PRO:HB2	1.92	0.52
2:J:1142:ILE:HG13	2:J:1209:PRO:HG3	1.92	0.52
2:J:1411:LYS:HB2	2:J:1439:TYR:CD1	2.44	0.52
2:J:1421:ARG:O	2:J:1421:ARG:HG2	2.06	0.52
2:J:1872:GLU:HA	2:J:1872:GLU:OE1	2.08	0.52
2:J:656:ARG:HG2	2:J:656:ARG:NH1	2.23	0.52
2:K:1377:SER:HB3	2:K:1432:GLN:HB2	1.91	0.52
2:K:1643:VAL:CG1	2:K:1649:ILE:HD11	2.39	0.52
2:K:1554:PRO:HA	2:K:1659:ILE:HG12	1.90	0.52
2:K:1890:ARG:HB3	2:K:1994:ALA:HB2	1.92	0.52
1:E:20:TYR:CE2	2:K:2062:THR:HG23	2.44	0.52
2:L:35:PHE:CD2	2:L:37:VAL:HG22	2.44	0.52
2:L:930:THR:CG2	2:L:933:GLU:H	2.22	0.52
1:A:1691:ILE:HG22	1:A:1695:VAL:HG23	1.91	0.52
1:B:1451:LYS:HE2	1:B:1463:GLU:OE2	2.10	0.52
1:B:452:ILE:HD12	1:B:467:LYS:HA	1.92	0.52
1:C:1086:PHE:CE2	1:C:1310:PHE:HD2	2.27	0.52
1:C:1095:GLN:O	1:C:1096:LEU:HD23	2.09	0.52
1:C:1686:PRO:HB2	1:C:1713:PHE:HD1	1.72	0.52
1:C:799:LEU:HD12	1:C:821:LEU:HB3	1.91	0.52
1:D:1001:GLU:O	1:D:1007:ASN:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:405:TRP:CH2	1:D:1609:SER:HB3	2.43	0.52
1:D:551:LEU:C	1:D:551:LEU:HD23	2.29	0.52
1:E:1037:ASN:CG	1:E:1674:ILE:HG23	2.30	0.52
1:E:868:VAL:CG1	1:E:908:ILE:HD11	2.37	0.52
2:G:1410:GLY:HA3	2:G:1436:ARG:HA	1.92	0.52
2:G:159:PHE:HA	2:G:162:ALA:HB3	1.92	0.52
2:G:747:ARG:NH1	2:G:780:SER:HB3	2.24	0.52
2:G:792:LEU:HD12	2:G:792:LEU:O	2.09	0.52
2:H:1464:LEU:HD13	2:H:1468:ARG:HG3	1.92	0.52
2:H:1554:PRO:HG3	2:H:1659:ILE:HD11	1.90	0.52
2:H:1555:VAL:HG21	2:H:1824:LYS:HA	1.92	0.52
2:H:388:ASN:HD22	2:H:389:PHE:N	2.07	0.52
2:H:409:LYS:HB3	2:H:428:PHE:CZ	2.43	0.52
2:H:789:TYR:CE1	2:H:1097:PHE:HB3	2.45	0.52
2:I:1120:ILE:HD13	2:I:1173:HIS:CE1	2.45	0.52
2:I:1400:GLN:HG3	2:I:1448:ARG:HH12	1.74	0.52
2:J:1340:LYS:HE3	2:L:376:ARG:NH2	2.23	0.52
2:J:138:ARG:HB3	2:J:192:THR:HG23	1.90	0.52
2:J:1403:ALA:HB2	2:J:1447:GLN:HG3	1.92	0.52
2:J:1653:LEU:CD2	2:J:1667:VAL:HG13	2.40	0.52
2:J:2073:ASN:O	2:J:2076:LYS:HB3	2.09	0.52
2:J:868:LEU:O	2:J:870:THR:HG23	2.09	0.52
2:K:1064:THR:HG22	2:K:1065:CYS:N	2.25	0.52
2:K:38:PRO:HG2	2:K:41:LEU:HD12	1.90	0.52
2:K:888:ARG:O	2:K:891:ARG:HB2	2.10	0.52
2:L:1362:PHE:N	2:L:1363:PRO:HD2	2.24	0.52
2:L:1653:LEU:CD2	2:L:1667:VAL:HG13	2.39	0.52
2:L:186:LEU:HD21	2:L:256:VAL:HG22	1.92	0.52
2:L:271:GLU:H	2:L:274:GLU:HG3	1.74	0.52
1:A:1038:HIS:O	1:A:1048:SER:HA	2.09	0.52
1:A:427:ARG:NH1	1:A:427:ARG:HG3	2.06	0.52
1:A:631:LYS:O	1:A:635:ILE:HG22	2.09	0.52
1:B:1213:VAL:CG1	1:B:1214:HIS:N	2.72	0.52
1:B:1223:GLY:CA	1:B:1276:PRO:HD2	2.40	0.52
1:C:843:VAL:O	1:C:843:VAL:HG22	2.09	0.52
1:C:888:ILE:HA	1:C:891:LEU:HD12	1.91	0.52
1:D:1032:MET:HE3	1:D:1165:PRO:HB3	1.92	0.52
1:D:1640:LYS:HG3	1:D:1641:TYR:HD1	1.72	0.52
1:E:358:PHE:C	1:E:358:PHE:CD2	2.82	0.52
1:F:1079:ARG:CG	1:F:1079:ARG:NH1	2.63	0.52
2:G:1009:ASN:HB2	2:G:1012:ASP:OD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1947:LYS:HG2	2:G:1993:PHE:CD1	2.45	0.52
2:G:2059:HIS:HB2	2:G:2067:ILE:HG21	1.92	0.52
2:G:934:VAL:O	2:G:938:MET:HG3	2.09	0.52
2:H:788:THR:HG22	2:H:1094:HIS:HE1	1.75	0.52
2:H:1180:VAL:HG11	2:H:1187:PHE:CG	2.45	0.52
2:H:1231:THR:HG23	2:H:1595:VAL:CG2	2.34	0.52
2:H:1194:ARG:NH2	2:H:1601:ASN:CG	2.62	0.52
2:H:161:ALA:HB1	2:H:166:ASN:HB2	1.90	0.52
2:H:192:THR:O	2:H:194:PRO:HD3	2.10	0.52
2:I:190:TYR:CD1	2:I:201:ILE:HD13	2.43	0.52
2:I:388:ASN:HD22	2:I:389:PHE:N	2.08	0.52
2:I:524:ILE:HA	2:I:527:LEU:HD12	1.92	0.52
2:I:931:TYR:O	2:I:935:VAL:HG12	2.09	0.52
2:J:1224:GLN:OE1	2:J:1224:GLN:HA	2.09	0.52
2:J:1445:THR:CG2	2:J:1498:PHE:HB2	2.40	0.52
2:J:571:ASP:OD1	2:J:573:VAL:HG23	2.09	0.52
2:J:727:VAL:HA	2:J:730:ILE:HG12	1.90	0.52
2:J:979:LEU:HB2	2:J:996:ILE:HG23	1.90	0.52
2:K:1171:TRP:CD1	2:K:1172:ARG:N	2.78	0.52
2:K:1751:GLY:O	2:K:1755:LYS:HG2	2.10	0.52
2:K:1750:GLY:O	2:K:1755:LYS:HE3	2.09	0.52
2:K:2044:THR:HG22	2:K:2046:LYS:H	1.73	0.52
2:K:186:LEU:HD23	2:K:256:VAL:HG13	1.92	0.52
2:K:271:GLU:HB2	2:K:274:GLU:HG3	1.92	0.52
2:K:31:LEU:HB2	2:K:72:VAL:HG22	1.92	0.52
2:K:77:ALA:O	2:K:139:ALA:HB1	2.09	0.52
2:K:917:ARG:HD3	2:K:937:ARG:CZ	2.40	0.52
2:L:1083:ILE:HA	2:L:1086:ILE:HG13	1.92	0.52
2:L:1156:ASP:HB2	2:L:1159:SER:H	1.74	0.52
2:L:825:SER:CB	2:L:1053:ILE:HG13	2.40	0.52
2:L:83:VAL:O	2:L:87:VAL:HG23	2.10	0.52
1:A:1052:ASP:O	1:A:1055:THR:O	2.28	0.52
1:A:1501:ALA:O	1:A:1504:ARG:HB2	2.10	0.52
1:A:558:LEU:HB2	1:A:563:GLN:CG	2.36	0.52
1:A:799:LEU:HD12	1:A:821:LEU:HB3	1.91	0.52
1:B:1113:LYS:O	1:B:1117:GLU:HG3	2.10	0.52
1:B:1337:PRO:HA	1:B:1340:MET:HG3	1.92	0.52
1:B:1278:GLY:CA	1:B:1630:LYS:HE2	2.37	0.52
1:B:905:LEU:HD22	1:B:911:LEU:CD2	2.38	0.52
1:C:1164:ILE:CD1	1:C:1355:GLN:HG3	2.39	0.52
1:C:1183:VAL:HG13	1:C:1252:GLU:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:411:LEU:HD22	1:C:1612:ILE:HD13	1.91	0.52
1:C:565:GLN:HG2	1:C:565:GLN:O	2.09	0.52
1:A:1386:THR:HB	1:E:1269:SER:O	2.09	0.52
1:E:1218:VAL:HG22	1:E:1301:VAL:CG1	2.40	0.52
1:E:15:VAL:HG11	2:K:2022:LEU:HD21	1.91	0.52
1:E:662:ALA:HA	1:E:694:TYR:CZ	2.44	0.52
1:F:636:TYR:CZ	1:F:640:LEU:HD22	2.44	0.52
2:G:161:ALA:HB1	2:G:166:ASN:HB2	1.92	0.52
2:G:21:LEU:HD13	2:G:36:LEU:HD21	1.91	0.52
2:G:374:GLU:CA	2:G:377:HIS:CD2	2.81	0.52
2:G:789:TYR:CE1	2:G:1097:PHE:HB3	2.45	0.52
2:G:875:PHE:O	2:G:878:GLU:HB2	2.09	0.52
2:G:376:ARG:HE	2:H:1339:GLY:HA2	1.74	0.52
2:H:172:ILE:HG22	2:H:514:VAL:O	2.09	0.52
2:H:741:LEU:O	2:H:741:LEU:CG	2.58	0.52
2:H:747:ARG:NH1	2:H:780:SER:O	2.43	0.52
2:H:938:MET:O	2:H:942:MET:HG3	2.10	0.52
1:C:1670:HIS:CE1	2:I:1009:ASN:ND2	2.77	0.52
2:I:1207:THR:O	2:I:1215:THR:HG23	2.09	0.52
2:I:1610:MET:CA	2:I:1610:MET:HE2	2.33	0.52
2:I:378:ILE:HG23	2:I:391:VAL:CG1	2.40	0.52
2:I:600:VAL:HG13	2:I:601:PRO:N	2.24	0.52
2:I:663:ILE:HD12	2:I:663:ILE:N	2.22	0.52
2:J:1074:LYS:HE3	2:J:1075:TYR:CE1	2.41	0.52
2:J:1074:LYS:HG3	2:J:1075:TYR:CD1	2.45	0.52
2:J:1753:ARG:HG3	2:J:1756:ILE:CD1	2.40	0.52
2:J:186:LEU:HD21	2:J:256:VAL:HG22	1.89	0.52
2:K:1229:VAL:HG12	2:K:1230:LYS:N	2.25	0.52
2:K:1517:LEU:HD12	2:K:1521:GLU:HB2	1.90	0.52
2:K:1963:GLU:HA	2:K:1966:ARG:HB3	1.90	0.52
2:K:2062:THR:HG22	2:K:2063:GLY:N	2.24	0.52
2:K:699:ILE:HD12	2:K:699:ILE:H	1.74	0.52
2:K:825:SER:CB	2:K:1053:ILE:HG13	2.39	0.52
2:L:1157:VAL:HG22	2:L:1198:PRO:HD2	1.92	0.52
2:L:2044:THR:HG22	2:L:2046:LYS:H	1.74	0.52
2:L:378:ILE:HG23	2:L:391:VAL:CG1	2.39	0.52
2:L:460:ILE:O	2:L:486:ILE:HB	2.09	0.52
2:L:820:LYS:HG3	2:L:821:GLU:HG2	1.92	0.52
1:A:1213:VAL:HG22	1:A:1300:ARG:CZ	2.40	0.52
1:A:1323:ALA:HB1	1:A:1351:PHE:CE2	2.45	0.52
1:A:1565:PRO:O	1:A:1566:LYS:C	2.47	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1512:LEU:HD21	1:A:1641:TYR:CE2	2.45	0.52
1:A:767:HIS:CG	1:A:813:LEU:HD12	2.45	0.52
1:C:519:PHE:O	1:C:523:VAL:HG23	2.09	0.52
1:D:1211:LYS:HE3	1:D:1711:LEU:HD21	1.92	0.52
1:E:766:ALA:HA	1:E:769:ILE:HD12	1.92	0.52
1:F:1084:GLU:H	1:F:1084:GLU:CD	2.13	0.52
1:F:1451:LYS:HA	1:F:1454:ARG:NH2	2.25	0.52
1:A:551:LEU:HD21	1:F:562:SER:CB	2.39	0.52
2:G:1299:VAL:HG13	2:G:1301:PHE:CE1	2.45	0.52
2:G:1804:GLN:HB3	2:G:1861:PHE:CE1	2.45	0.52
2:G:460:ILE:O	2:G:486:ILE:HB	2.08	0.52
2:G:582:LYS:HG3	2:G:1110:VAL:HG11	1.92	0.52
2:G:979:LEU:HB2	2:G:996:ILE:HG23	1.92	0.52
2:H:1288:PHE:CE2	2:H:1292:VAL:HG21	2.45	0.52
2:H:271:GLU:H	2:H:274:GLU:HG3	1.75	0.52
2:H:662:LEU:HD22	2:H:673:GLN:OE1	2.10	0.52
2:I:1115:TYR:OH	2:I:1173:HIS:HD2	1.93	0.52
2:J:820:LYS:HB3	2:J:1080:ASP:O	2.10	0.52
2:J:1171:TRP:CD1	2:J:1172:ARG:N	2.78	0.52
2:J:1248:GLU:HA	2:J:1248:GLU:OE1	2.10	0.52
2:J:251:PRO:HG3	2:J:316:PHE:CA	2.39	0.52
2:J:35:PHE:HZ	2:J:104:LEU:HB3	1.75	0.52
2:J:911:GLN:NE2	2:J:1065:CYS:H	2.08	0.52
1:D:962:ASN:CB	2:J:969:ARG:HD2	2.40	0.52
2:K:1653:LEU:HD21	2:K:1667:VAL:HG13	1.92	0.52
2:K:24:LEU:HD12	2:K:37:VAL:CG2	2.40	0.52
2:K:250:PHE:O	2:K:315:LEU:HD23	2.10	0.52
2:K:792:LEU:HD23	2:K:1094:HIS:CE1	2.45	0.52
2:K:930:THR:O	2:K:934:VAL:HG23	2.09	0.52
2:L:1229:VAL:HG12	2:L:1230:LYS:N	2.23	0.52
2:L:158:LEU:HD22	2:L:169:ILE:HD11	1.92	0.52
2:L:735:PRO:HA	2:L:773:ASN:OD1	2.10	0.52
2:L:907:ASN:OD1	2:L:913:VAL:HG12	2.09	0.52
2:L:935:VAL:HG11	2:L:997:LEU:HD21	1.92	0.52
1:A:1014:MET:O	1:A:1590:ARG:NH2	2.37	0.52
1:A:1032:MET:HE2	1:A:1165:PRO:HB3	1.92	0.52
1:A:997:THR:CG2	1:A:1361:VAL:HG22	2.40	0.52
1:A:983:GLN:O	1:A:987:MET:HG3	2.10	0.52
1:B:1323:ALA:HB1	1:B:1351:PHE:CE2	2.45	0.52
1:C:529:GLY:HA3	1:C:611:THR:CG2	2.40	0.52
1:C:983:GLN:O	1:C:987:MET:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:408:GLN:HG2	1:E:1610:ARG:NH1	2.25	0.52
1:E:799:LEU:HD12	1:E:821:LEU:HB3	1.91	0.52
1:E:997:THR:CG2	1:E:1361:VAL:HG22	2.40	0.52
1:F:1580:VAL:O	1:F:1617:ILE:HD11	2.09	0.52
1:F:22:PHE:HE2	2:L:2017:PHE:CB	2.22	0.52
2:G:250:PHE:CB	2:G:251:PRO:HD3	2.40	0.52
2:H:1305:LEU:HD23	2:H:1366:ILE:HD11	1.92	0.52
2:H:1795:SER:HB3	2:H:1799:LEU:HD12	1.92	0.52
2:H:2005:PHE:HA	2:H:2010:LEU:HD11	1.92	0.52
2:H:656:ARG:HG2	2:H:656:ARG:NH1	2.24	0.52
2:I:161:ALA:HB1	2:I:166:ASN:HB2	1.91	0.52
2:I:1725:HIS:CD2	2:I:1854:GLU:CB	2.93	0.52
2:I:204:ILE:HG23	2:I:312:VAL:HG11	1.91	0.52
2:I:713:HIS:CD2	2:I:740:ILE:HD13	2.45	0.52
2:J:22:ARG:HD2	2:J:42:HIS:HB3	1.92	0.52
2:J:285:HIS:CD2	2:J:501:TRP:CE3	2.98	0.52
2:J:699:ILE:HD12	2:J:699:ILE:N	2.24	0.52
2:J:752:HIS:CE1	2:J:856:THR:HG21	2.45	0.52
2:K:1500:ASN:HB2	2:K:1503:VAL:H	1.76	0.52
2:K:776:LEU:HG	2:K:807:PHE:CE2	2.45	0.52
2:K:938:MET:HE2	2:K:959:THR:HG22	1.91	0.52
2:K:979:LEU:HB2	2:K:996:ILE:HG23	1.92	0.52
2:L:1171:TRP:CH2	2:L:1236:LEU:HB2	2.44	0.52
1:F:26:VAL:CG2	2:L:2006:HIS:CE1	2.93	0.52
2:L:271:GLU:HB2	2:L:274:GLU:HG3	1.92	0.52
1:A:1090:ASP:OD1	1:A:1092:ASN:HB2	2.10	0.51
1:A:1606:VAL:O	1:A:1608:PRO:HD3	2.10	0.51
1:A:469:LEU:O	1:A:472:GLN:HB3	2.09	0.51
1:A:907:PHE:O	1:A:909:PRO:HD3	2.10	0.51
1:C:1213:VAL:HG13	1:C:1217:GLU:HB2	1.92	0.51
1:D:1179:ILE:O	1:D:1183:VAL:HG23	2.10	0.51
1:D:911:LEU:HD12	1:D:911:LEU:O	2.09	0.51
1:F:1014:MET:O	1:F:1590:ARG:NH2	2.37	0.51
1:F:1168:TRP:NE1	1:F:1173:TYR:HE1	2.07	0.51
1:F:36:LEU:HD21	1:F:44:ILE:HD11	1.92	0.51
2:G:1203:TYR:HB3	2:G:1220:ARG:HB2	1.91	0.51
2:G:1986:PRO:O	2:G:1987:VAL:HB	2.11	0.51
2:G:505:THR:HG22	2:G:505:THR:O	2.09	0.51
2:H:1017:LEU:O	2:H:1021:GLN:HG3	2.10	0.51
2:H:2044:THR:HG22	2:H:2046:LYS:H	1.75	0.51
2:H:43:PHE:CD1	2:I:22:ARG:CZ	2.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1324:PHE:HA	2:I:1583:VAL:HG11	1.92	0.51
2:I:726:GLN:O	2:I:730:ILE:HG12	2.10	0.51
2:J:1128:PRO:HG2	2:J:1135:ALA:CB	2.41	0.51
2:J:1370:LEU:CD1	2:J:1373:LEU:HD13	2.38	0.51
2:J:1643:VAL:CG1	2:J:1649:ILE:HD11	2.40	0.51
2:J:289:ILE:HG12	2:J:493:MET:CE	2.40	0.51
2:J:21:LEU:HA	2:J:37:VAL:O	2.10	0.51
2:J:834:ASP:O	2:J:836:PRO:HD3	2.10	0.51
2:K:1026:LYS:HE2	2:K:1045:ASP:OD2	2.10	0.51
2:K:1369:ASP:OD1	2:K:1371:LEU:HB3	2.10	0.51
2:K:1740:ASN:O	2:K:1742:PRO:HD3	2.10	0.51
2:K:2053:GLU:HA	2:K:2056:GLU:OE1	2.10	0.51
2:K:44:GLN:HG3	2:K:101:VAL:CG2	2.39	0.51
2:K:608:MET:HA	4:K:2101:FMN:N5	2.25	0.51
2:L:1232:VAL:HA	2:L:1245:THR:O	2.10	0.51
2:L:1231:THR:CG2	2:L:1595:VAL:HG11	2.39	0.51
2:L:600:VAL:HG13	2:L:601:PRO:N	2.25	0.51
2:L:825:SER:O	2:L:828:ALA:HB3	2.10	0.51
2:L:930:THR:HA	2:L:1007:LEU:HA	1.90	0.51
1:A:408:GLN:HE22	1:A:1610:ARG:H	1.58	0.51
1:A:828:TRP:HE1	1:A:838:THR:HA	1.74	0.51
1:B:754:ARG:N	1:B:810:ASN:HB3	2.25	0.51
1:B:759:ILE:HG12	1:B:813:LEU:HD23	1.93	0.51
1:C:1580:VAL:O	1:C:1617:ILE:HD11	2.09	0.51
1:C:1674:ILE:HD12	2:I:1010:ALA:CB	2.40	0.51
1:C:21:GLN:O	2:I:2006:HIS:HD2	1.93	0.51
1:C:687:PHE:CD2	1:C:687:PHE:C	2.84	0.51
1:D:1514:ILE:HD13	1:D:1545:LEU:HB3	1.91	0.51
1:E:1337:PRO:HA	1:E:1340:MET:CG	2.40	0.51
1:F:1307:PHE:HB3	1:F:1357:CYS:HB2	1.92	0.51
1:F:1393:VAL:N	1:F:1394:PRO:CD	2.73	0.51
2:G:1890:ARG:HB3	2:G:1994:ALA:HB2	1.93	0.51
2:G:256:VAL:O	2:G:260:HIS:CD2	2.63	0.51
2:G:285:HIS:CD2	2:G:501:TRP:CE3	2.99	0.51
2:G:616:ASP:OD2	2:G:823:HIS:NE2	2.44	0.51
2:G:861:MET:HB2	2:G:863:GLU:HG2	1.91	0.51
2:H:1142:ILE:HG13	2:H:1209:PRO:HG3	1.92	0.51
2:H:192:THR:C	2:H:194:PRO:HD3	2.29	0.51
2:H:271:GLU:HB2	2:H:274:GLU:HG3	1.92	0.51
2:H:290:VAL:HG13	2:H:314:LEU:HD23	1.92	0.51
2:H:818:THR:HA	2:H:829:LYS:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:928:ASP:HA	2:H:1007:LEU:HD23	1.92	0.51
2:H:962:PHE:O	2:H:965:ARG:HB3	2.10	0.51
2:I:1468:ARG:NH1	2:I:1475:LEU:HD22	2.25	0.51
2:I:38:PRO:HG2	2:I:41:LEU:HD12	1.91	0.51
2:J:1963:GLU:HA	2:J:1966:ARG:HB3	1.92	0.51
2:J:76:VAL:O	2:J:80:ILE:HG13	2.11	0.51
2:K:1411:LYS:HB3	2:K:1435:TYR:HB2	1.90	0.51
2:K:155:ASP:HB3	2:K:278:ARG:NH1	2.25	0.51
2:K:411:PRO:HD2	2:K:414:LEU:CD1	2.39	0.51
2:K:824:THR:HG22	2:K:828:ALA:HB3	1.92	0.51
2:L:1074:LYS:HG3	2:L:1075:TYR:CD1	2.45	0.51
2:L:1729:ASN:O	2:L:1757:ILE:HG23	2.10	0.51
2:L:2057:GLU:HA	2:L:2060:ARG:HH12	1.74	0.51
2:L:325:ALA:HB2	2:L:447:ALA:HB2	1.93	0.51
2:L:388:ASN:HD22	2:L:389:PHE:N	2.09	0.51
2:L:752:HIS:NE2	2:L:856:THR:HG22	2.25	0.51
2:L:931:TYR:O	2:L:935:VAL:HG12	2.10	0.51
2:L:966:VAL:O	2:L:970:PHE:HD1	1.94	0.51
1:A:995:VAL:HG13	1:A:1375:ILE:HG23	1.92	0.51
1:B:448:MET:HA	1:B:448:MET:HE3	1.92	0.51
1:D:843:VAL:O	1:D:843:VAL:HG22	2.10	0.51
1:E:1218:VAL:O	1:E:1271:GLY:HA3	2.09	0.51
1:F:1254:PHE:HB2	1:F:1257:THR:OG1	2.10	0.51
1:F:673:LEU:HD21	1:F:884:MET:CE	2.41	0.51
2:G:580:LEU:HD21	2:G:1095:ILE:HA	1.91	0.51
2:G:1175:MET:HA	2:G:1274:ILE:CD1	2.40	0.51
2:G:1266:HIS:CD2	2:G:1275:ARG:CZ	2.94	0.51
2:G:1402:ASN:ND2	2:G:1416:CYS:HB2	2.25	0.51
2:G:1421:ARG:HD2	2:G:1426:VAL:CG2	2.40	0.51
2:G:1872:GLU:OE1	2:G:1872:GLU:HA	2.09	0.51
1:B:943:VAL:CG2	2:H:1539:PRO:HG3	2.40	0.51
2:H:325:ALA:HB2	2:H:447:ALA:HB2	1.92	0.51
2:I:1411:LYS:HB2	2:I:1439:TYR:CD1	2.45	0.51
2:I:208:LEU:HD12	2:I:227:ILE:CD1	2.38	0.51
2:I:580:LEU:HD21	2:I:1095:ILE:HA	1.91	0.51
2:I:613:VAL:N	2:I:614:PRO:CD	2.73	0.51
2:I:699:ILE:N	2:I:699:ILE:HD12	2.26	0.51
2:J:1232:VAL:HA	2:J:1245:THR:O	2.11	0.51
2:J:1369:ASP:OD1	2:J:1371:LEU:HB3	2.10	0.51
2:J:1473:PHE:HE1	2:J:1513:VAL:HG21	1.75	0.51
2:J:460:ILE:O	2:J:486:ILE:HB	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:92:GLU:HB3	2:J:95:HIS:NE2	2.26	0.51
2:K:928:ASP:HA	2:K:1007:LEU:HD23	1.92	0.51
2:K:1288:PHE:CE2	2:K:1292:VAL:HG21	2.44	0.51
2:K:1299:VAL:HG22	2:K:1301:PHE:CD1	2.46	0.51
2:K:489:GLU:O	2:K:493:MET:HG3	2.11	0.51
2:L:1028:VAL:HG13	2:L:1030:PHE:CD2	2.46	0.51
2:L:1217:ILE:O	2:L:1233:GLU:HA	2.10	0.51
2:L:752:HIS:CE1	2:L:856:THR:HG21	2.45	0.51
1:A:1113:LYS:O	1:A:1117:GLU:HG3	2.10	0.51
1:A:1494:TRP:HE1	1:A:1509:THR:HG21	1.74	0.51
1:A:1584:GLY:HA2	1:A:1617:ILE:CD1	2.41	0.51
1:B:1565:PRO:O	1:B:1567:GLY:N	2.43	0.51
1:B:1386:THR:HG22	1:B:1629:GLN:HE21	1.74	0.51
1:C:1323:ALA:HB1	1:C:1351:PHE:CE2	2.45	0.51
1:C:1386:THR:HG22	1:C:1629:GLN:HE21	1.76	0.51
1:C:427:ARG:NH1	1:C:492:ILE:HG12	2.25	0.51
1:D:833:TRP:HH2	1:D:839:ILE:HD11	1.76	0.51
1:D:498:THR:HG21	1:D:858:LEU:O	2.11	0.51
1:E:1090:ASP:OD1	1:E:1092:ASN:HB2	2.10	0.51
1:E:904:GLY:HA2	1:E:906:GLN:OE1	2.11	0.51
1:F:1131:GLU:HG2	1:F:1138:TYR:CE2	2.46	0.51
1:F:1186:VAL:HG23	1:F:1309:ASP:HB2	1.92	0.51
1:C:1473:HIS:CD2	1:F:1414:PRO:HG2	2.45	0.51
1:F:570:TYR:CE1	1:F:574:ILE:HD11	2.45	0.51
2:H:1171:TRP:CH2	2:H:1236:LEU:HB2	2.45	0.51
2:H:1594:ARG:CG	2:H:1594:ARG:NH1	2.64	0.51
2:H:21:LEU:HD13	2:H:36:LEU:HD21	1.93	0.51
2:H:285:HIS:CD2	2:H:501:TRP:CE3	2.98	0.51
2:H:837:GLY:HA3	2:H:1074:LYS:HG2	1.91	0.51
2:I:1104:ASP:N	2:I:1104:ASP:OD1	2.44	0.51
2:I:1753:ARG:HG3	2:I:1756:ILE:HD11	1.93	0.51
2:I:2062:THR:HG22	2:I:2063:GLY:N	2.24	0.51
2:I:285:HIS:CD2	2:I:501:TRP:CE3	2.98	0.51
2:I:917:ARG:HD3	2:I:937:ARG:CZ	2.39	0.51
1:D:1670:HIS:CE1	2:J:1009:ASN:ND2	2.79	0.51
2:J:1047:LEU:H	2:J:1047:LEU:HD12	1.76	0.51
2:J:1725:HIS:CD2	2:J:1854:GLU:HB3	2.46	0.51
2:K:1093:ASP:O	2:K:1097:PHE:HD1	1.93	0.51
2:K:1551:ILE:CG2	2:K:1552:GLU:N	2.73	0.51
2:K:1986:PRO:O	2:K:1987:VAL:HB	2.10	0.51
2:K:2013:GLY:C	2:K:2016:PRO:HD2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:956:ILE:HA	2:K:977:PRO:HA	1.93	0.51
1:A:1218:VAL:O	1:A:1271:GLY:HA3	2.11	0.51
1:A:1448:ALA:CA	1:A:1451:LYS:HE3	2.35	0.51
1:A:450:TYR:CD2	1:A:450:TYR:C	2.84	0.51
1:A:558:LEU:HA	1:F:557:ARG:NH1	2.25	0.51
1:A:868:VAL:CG1	1:A:908:ILE:HD11	2.36	0.51
1:A:965:TYR:OH	1:A:1199:LEU:HD22	2.09	0.51
1:B:1108:PRO:HA	1:B:1140:VAL:O	2.09	0.51
1:B:1640:LYS:HG3	1:B:1641:TYR:HD1	1.73	0.51
1:B:498:THR:HG21	1:B:858:LEU:O	2.11	0.51
1:C:1213:VAL:CG1	1:C:1214:HIS:N	2.74	0.51
1:C:1505:GLY:O	1:C:1509:THR:HG23	2.10	0.51
1:D:1451:LYS:HE2	1:D:1463:GLU:OE2	2.10	0.51
1:D:782:LYS:NZ	1:D:786:LYS:HD2	2.26	0.51
1:E:1050:TRP:CE3	1:E:1050:TRP:HA	2.46	0.51
1:E:628:TYR:OH	1:E:630:LYS:HE2	2.10	0.51
1:F:1042:LEU:HD12	1:F:1058:PRO:HG3	1.92	0.51
2:G:1350:ILE:HG22	2:G:1429:VAL:HG11	1.93	0.51
2:G:1411:LYS:HB3	2:G:1435:TYR:HB2	1.91	0.51
2:G:196:PHE:H	2:G:196:PHE:HD2	1.56	0.51
2:G:350:MET:HG3	2:G:435:ILE:CG2	2.40	0.51
2:G:857:VAL:CG1	2:G:876:TRP:NE1	2.74	0.51
2:H:1891:ILE:HD12	2:H:1895:PHE:CE2	2.45	0.51
2:H:459:LYS:O	2:H:461:PRO:HD3	2.11	0.51
2:I:1982:ALA:O	2:I:1984:PRO:HD3	2.10	0.51
1:C:24:MET:HE2	2:I:2043:VAL:HG12	1.93	0.51
2:I:752:HIS:CE1	2:I:856:THR:HG21	2.46	0.51
2:J:1064:THR:HG22	2:J:1065:CYS:N	2.25	0.51
2:J:1217:ILE:O	2:J:1233:GLU:HA	2.10	0.51
2:J:1610:MET:CA	2:J:1610:MET:HE2	2.28	0.51
2:J:350:MET:HG3	2:J:435:ILE:CG2	2.41	0.51
2:K:376:ARG:HH22	2:L:1340:LYS:HE3	1.75	0.51
2:K:718:PRO:HG3	2:K:727:VAL:HG21	1.92	0.51
1:A:1083:PRO:HD2	1:A:1084:GLU:OE2	2.10	0.51
1:A:628:TYR:OH	1:A:630:LYS:HE2	2.09	0.51
1:A:988:VAL:HG12	1:A:990:LEU:HD23	1.92	0.51
1:B:1213:VAL:HG22	1:B:1300:ARG:CZ	2.40	0.51
1:C:1014:MET:O	1:C:1590:ARG:NH2	2.38	0.51
1:C:1132:ILE:HD12	1:C:1137:GLN:HB2	1.90	0.51
1:C:1306:GLY:O	1:C:1357:CYS:HB2	2.10	0.51
1:C:418:ILE:O	1:C:418:ILE:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1113:LYS:O	1:D:1117:GLU:HG3	2.10	0.51
1:D:853:MET:HG2	1:D:856:ASN:ND2	2.26	0.51
1:D:857:ASN:HA	1:D:860:ALA:HB2	1.92	0.51
1:E:1565:PRO:O	1:E:1567:GLY:N	2.44	0.51
1:E:336:PHE:O	1:E:339:GLN:HB2	2.10	0.51
1:B:579:MET:HE2	1:E:612:ILE:HD12	1.91	0.51
1:E:36:LEU:HD22	1:E:61:LEU:HD21	1.93	0.51
1:F:1514:ILE:O	1:F:1547:ARG:NH1	2.43	0.51
1:F:684:THR:HG21	1:F:691:VAL:HG11	1.93	0.51
1:F:890:ASN:OD1	2:G:1755:LYS:HE2	2.09	0.51
2:G:187:ARG:NH2	2:G:230:TRP:O	2.44	0.51
2:G:613:VAL:N	2:G:614:PRO:CD	2.73	0.51
2:G:752:HIS:NE2	2:G:856:THR:HG21	2.26	0.51
2:G:376:ARG:HH22	2:H:1340:LYS:HE3	1.75	0.51
2:H:1324:PHE:HA	2:H:1583:VAL:HG11	1.93	0.51
2:H:699:ILE:H	2:H:699:ILE:CD1	2.24	0.51
2:I:1637:VAL:HG11	2:I:1679:LEU:CD1	2.33	0.51
2:J:1123:ALA:O	2:J:1126:GLU:HG3	2.11	0.51
2:J:250:PHE:CB	2:J:251:PRO:HD3	2.41	0.51
2:J:272:PRO:HG2	2:J:300:THR:O	2.10	0.51
2:J:735:PRO:HA	2:J:773:ASN:OD1	2.10	0.51
2:K:1142:ILE:HG13	2:K:1209:PRO:HG3	1.92	0.51
2:K:21:LEU:HD13	2:K:36:LEU:HD21	1.92	0.51
2:L:1384:PRO:CB	2:L:1829:ARG:HH12	2.24	0.51
2:L:1384:PRO:HB3	2:L:1829:ARG:NH1	2.26	0.51
2:L:1887:ASN:OD1	2:L:1889:SER:HB2	2.11	0.51
2:L:1932:ASP:O	2:L:1936:LEU:HD23	2.10	0.51
2:L:751:HIS:HB2	3:L:2102:NAP:N7N	2.24	0.51
2:L:283:THR:HG23	2:L:470:TYR:O	2.11	0.51
2:L:501:TRP:NE1	2:L:528:THR:CG2	2.72	0.51
2:L:700:GLU:CD	2:L:700:GLU:H	2.14	0.51
1:A:1451:LYS:HA	1:A:1454:ARG:NH2	2.26	0.51
1:B:1542:LEU:HD22	1:B:1547:ARG:HD3	1.92	0.51
1:B:441:ASN:HB2	1:B:444:LEU:H	1.76	0.51
1:C:1367:LEU:HD22	1:C:1371:MET:HG3	1.92	0.51
1:D:1691:ILE:HG22	1:D:1695:VAL:HG23	1.92	0.51
1:E:329:THR:O	1:E:332:GLN:HB2	2.10	0.51
1:E:536:SER:HB3	1:E:540:LYS:HD2	1.92	0.51
1:E:571:LYS:O	1:E:575:ARG:HG2	2.11	0.51
1:F:875:GLU:O	1:F:878:PHE:HB3	2.11	0.51
1:F:960:ARG:HH11	1:F:960:ARG:HG3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:988:VAL:HG12	1:F:990:LEU:HD23	1.92	0.51
2:G:1157:VAL:HG13	2:G:1197:ALA:HA	1.92	0.51
2:G:751:HIS:HB2	3:G:2102:NAP:N7N	2.26	0.51
2:H:1175:MET:HE1	2:H:1234:ILE:HG21	1.91	0.51
2:H:1229:VAL:HG12	2:H:1230:LYS:N	2.25	0.51
2:H:1175:MET:HA	2:H:1274:ILE:CD1	2.41	0.51
2:H:43:PHE:CE1	2:I:42:HIS:CE1	2.98	0.51
2:H:600:VAL:HG13	2:H:601:PRO:N	2.26	0.51
2:I:1246:LEU:HD11	2:I:1261:PHE:HE1	1.75	0.51
1:C:6:GLU:HA	2:I:2050:ILE:HD11	1.92	0.51
2:I:24:LEU:HD12	2:I:37:VAL:CG2	2.40	0.51
2:J:1028:VAL:HG13	2:J:1030:PHE:CD2	2.46	0.51
2:J:1370:LEU:CA	2:J:1435:TYR:HE2	2.24	0.51
2:J:1436:ARG:HH22	2:J:1602:LEU:CD1	2.24	0.51
2:J:1805:PHE:O	2:J:1808:PRO:HD2	2.11	0.51
2:J:35:PHE:CE1	2:J:105:ILE:HD13	2.46	0.51
2:J:718:PRO:HG3	2:J:727:VAL:HG21	1.90	0.51
2:K:1203:TYR:HB3	2:K:1220:ARG:HB2	1.91	0.51
2:K:2021:LEU:O	2:K:2025:ILE:HG13	2.09	0.51
2:K:605:VAL:CB	2:K:628:ILE:HG13	2.36	0.51
2:K:912:LYS:HB3	2:K:1030:PHE:HA	1.93	0.51
2:K:914:TRP:CD1	2:K:916:GLY:HA3	2.45	0.51
2:L:1175:MET:HA	2:L:1274:ILE:CD1	2.40	0.51
2:L:1770:ASN:HB2	2:L:1776:LYS:CE	2.39	0.51
2:L:608:MET:H	2:L:612:THR:CB	2.23	0.51
2:L:783:GLY:HA3	2:L:1075:TYR:CB	2.37	0.51
2:L:903:ILE:HD11	2:L:914:TRP:CZ2	2.45	0.51
1:A:1229:THR:HB	1:A:1311:GLN:HG3	1.92	0.51
1:B:911:LEU:O	1:B:911:LEU:HD12	2.11	0.51
1:C:846:TRP:HZ2	1:C:856:ASN:O	1.93	0.51
1:D:1068:TYR:O	1:D:1072:ILE:HG13	2.11	0.51
1:D:673:LEU:HD21	1:D:884:MET:CE	2.41	0.51
1:F:1001:GLU:HG2	1:F:1008:ALA:HB2	1.92	0.51
1:F:987:MET:O	1:F:1490:GLY:HA3	2.11	0.51
1:F:506:ILE:HD11	1:F:926:SER:CB	2.38	0.51
1:F:537:ASN:O	1:F:541:VAL:HG23	2.10	0.51
1:F:751:GLU:OE1	1:F:770:MET:HE1	2.11	0.51
1:F:868:VAL:CG1	1:F:908:ILE:HD11	2.34	0.51
1:F:929:ARG:O	1:F:933:ILE:HG13	2.11	0.51
2:G:1362:PHE:N	2:G:1363:PRO:HD2	2.25	0.51
2:G:1555:VAL:O	2:G:1555:VAL:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1574:PRO:HD3	2:G:1611:TYR:CE2	2.46	0.51
2:H:911:GLN:NE2	2:H:1065:CYS:H	2.09	0.51
2:H:1171:TRP:CD1	2:H:1172:ARG:N	2.78	0.51
2:H:1947:LYS:HG2	2:H:1993:PHE:CD1	2.46	0.51
2:H:281:GLY:HA3	2:H:470:TYR:HE1	1.76	0.51
2:H:379:GLY:O	2:H:391:VAL:HG13	2.11	0.51
2:H:735:PRO:HA	2:H:773:ASN:OD1	2.10	0.51
2:H:784:GLY:HA3	2:H:786:GLU:OE2	2.10	0.51
2:H:980:LEU:HD22	2:H:986:LEU:HD21	1.93	0.51
2:I:1083:ILE:HA	2:I:1086:ILE:HG13	1.92	0.51
2:I:1217:ILE:O	2:I:1233:GLU:HA	2.11	0.51
2:I:1709:TYR:CD2	2:I:1709:TYR:C	2.83	0.51
2:I:861:MET:HB2	2:I:863:GLU:HG2	1.91	0.51
2:J:1099:LEU:HD12	2:J:1103:TYR:CB	2.40	0.51
2:J:1156:ASP:HB2	2:J:1159:SER:H	1.74	0.51
2:J:1586:ASP:OD1	2:J:1588:ASN:HB2	2.11	0.51
2:J:1764:MET:HG3	2:J:1781:PHE:HE1	1.76	0.51
2:J:202:THR:O	2:J:206:GLU:HG3	2.11	0.51
2:J:1067:LEU:HB2	4:J:2101:FMN:HM71	1.92	0.51
2:J:271:GLU:HB2	2:J:274:GLU:HG3	1.93	0.51
2:J:825:SER:O	2:J:828:ALA:HB3	2.10	0.51
2:K:788:THR:HG22	2:K:1094:HIS:HE1	1.74	0.51
2:K:1411:LYS:HE3	2:K:1441:ASP:OD2	2.11	0.51
2:K:1725:HIS:CD2	2:K:1854:GLU:HB3	2.46	0.51
2:K:1521:GLU:OE2	2:K:2028:THR:HG21	2.11	0.51
2:K:327:PRO:HD2	2:L:1338:ARG:HH21	1.75	0.51
2:L:1405:ILE:HA	2:L:1445:THR:OG1	2.11	0.51
2:L:159:PHE:HA	2:L:162:ALA:HB3	1.91	0.51
2:L:1930:ALA:HB1	2:L:2004:PRO:HB3	1.93	0.51
1:A:961:ALA:HB2	1:A:1022:LEU:HD12	1.91	0.51
1:A:1107:GLU:HG3	1:A:1108:PRO:CD	2.37	0.51
1:A:1108:PRO:HA	1:A:1140:VAL:O	2.09	0.51
1:A:847:THR:OG1	1:A:876:MET:HG3	2.11	0.51
1:A:881:LEU:O	1:A:884:MET:HB2	2.11	0.51
1:A:973:TRP:NE1	1:A:1648:LYS:HB2	2.25	0.51
1:D:1017:TYR:HD1	1:D:1017:TYR:N	2.09	0.51
1:D:1367:LEU:HD22	1:D:1371:MET:HG3	1.92	0.51
1:D:1393:VAL:N	1:D:1394:PRO:CD	2.73	0.51
1:D:682:VAL:HG11	1:D:695:TYR:CE2	2.46	0.51
1:D:731:ASP:HB3	1:D:735:GLY:HA3	1.92	0.51
1:E:1229:THR:HB	1:E:1311:GLN:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1708:ASN:N	1:E:1708:ASN:OD1	2.40	0.51
1:F:1050:TRP:CE3	1:F:1050:TRP:HA	2.46	0.51
2:G:1375:HIS:CE1	2:G:1610:MET:SD	3.02	0.51
2:G:731:ALA:HA	2:G:739:ILE:CD1	2.40	0.51
2:H:585:VAL:O	2:H:585:VAL:HG12	2.11	0.51
2:I:1192:LEU:HD22	2:I:1196:PHE:HE1	1.76	0.51
2:I:1251:THR:HG22	2:I:1292:VAL:HG13	1.93	0.51
2:I:159:PHE:HA	2:I:162:ALA:HB3	1.92	0.51
2:I:779:GLY:HA3	2:I:811:MET:CE	2.38	0.51
2:I:778:ALA:HB2	2:I:807:PHE:CD2	2.46	0.51
2:I:929:MET:HE1	2:I:934:VAL:HG22	1.92	0.51
2:J:1410:GLY:HA3	2:J:1436:ARG:HA	1.93	0.51
2:J:1986:PRO:O	2:J:1987:VAL:HB	2.11	0.51
2:J:1947:LYS:HG2	2:J:1993:PHE:CD1	2.46	0.51
2:J:170:TYR:CE2	2:J:507:PHE:HB3	2.45	0.51
2:J:756:ASP:CA	2:J:843:TRP:HH2	2.24	0.51
2:K:912:LYS:NZ	2:K:1044:LYS:O	2.44	0.51
2:K:781:GLY:CA	2:K:1071:VAL:HG13	2.41	0.51
2:K:1175:MET:O	2:K:1192:LEU:HD12	2.11	0.51
2:K:35:PHE:HD2	2:K:37:VAL:HG22	1.76	0.51
2:K:283:THR:HG23	2:K:470:TYR:O	2.11	0.51
2:K:728:ILE:HG22	2:K:732:LYS:HE3	1.93	0.51
2:K:788:THR:CG2	2:K:1094:HIS:CE1	2.94	0.51
2:L:1375:HIS:CE1	2:L:1610:MET:SD	3.03	0.51
2:L:1725:HIS:CD2	2:L:1854:GLU:HB3	2.45	0.51
2:L:2039:TYR:O	2:L:2041:PRO:HD3	2.10	0.51
1:A:1129:ILE:HA	1:A:1139:THR:O	2.11	0.51
1:A:1335:ARG:HH11	1:A:1339:GLU:HG2	1.75	0.51
1:B:36:LEU:HD21	1:B:44:ILE:HD11	1.93	0.51
1:B:755:GLU:HB2	1:B:757:ASP:HB2	1.92	0.51
1:C:1495:ARG:HG2	1:C:1495:ARG:HH11	1.76	0.51
1:C:334:ALA:O	1:C:338:GLN:HG3	2.11	0.51
1:C:434:ILE:HD11	1:C:490:VAL:HG21	1.91	0.51
1:C:767:HIS:CG	1:C:813:LEU:HD12	2.46	0.51
1:D:1419:LYS:O	1:D:1422:ARG:HB2	2.10	0.51
1:D:1443:LEU:HD22	1:D:1474:ILE:HD11	1.92	0.51
1:D:967:PHE:CE2	1:D:1662:GLN:CA	2.94	0.51
1:D:716:GLN:NE2	1:D:747:ALA:HB3	2.26	0.51
1:D:868:VAL:HG11	1:D:908:ILE:CD1	2.36	0.51
1:E:768:ARG:HA	1:E:772:THR:OG1	2.11	0.51
1:F:1017:TYR:HD1	1:F:1017:TYR:N	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1443:LEU:HD22	1:F:1474:ILE:HD11	1.92	0.51
1:F:1448:ALA:CA	1:F:1451:LYS:HE3	2.36	0.51
2:G:1180:VAL:HG11	2:G:1187:PHE:CG	2.45	0.51
2:G:1551:ILE:CG2	2:G:1552:GLU:N	2.74	0.51
2:G:315:LEU:HA	2:G:318:ILE:HD12	1.94	0.51
2:G:35:PHE:HZ	2:G:104:LEU:HB3	1.75	0.51
2:G:798:THR:HA	2:G:802:TYR:O	2.11	0.51
2:G:930:THR:CG2	2:G:933:GLU:H	2.23	0.51
2:G:92:GLU:HB3	2:G:95:HIS:NE2	2.26	0.51
1:A:955:VAL:HG11	2:G:964:ARG:HE	1.76	0.51
2:H:783:GLY:HA3	2:H:1075:TYR:CB	2.39	0.51
2:I:1362:PHE:N	2:I:1363:PRO:HD2	2.26	0.51
2:I:859:SER:HB3	2:I:863:GLU:HG3	1.92	0.51
2:I:979:LEU:HB2	2:I:996:ILE:HG23	1.91	0.51
2:J:1017:LEU:O	2:J:1021:GLN:HG3	2.11	0.51
2:J:1047:LEU:N	2:J:1047:LEU:HD12	2.26	0.51
2:J:743:TRP:CD2	2:J:761:ILE:HD11	2.45	0.51
2:K:1019:LEU:HA	2:K:1022:ARG:HD2	1.92	0.51
2:K:329:THR:HG22	2:L:1331:THR:O	2.11	0.51
2:L:1538:ASN:HB3	2:L:1541:ILE:CG2	2.41	0.51
2:L:197:VAL:HG21	2:L:263:ILE:HD11	1.93	0.51
2:L:409:LYS:HB3	2:L:428:PHE:CZ	2.45	0.51
2:L:611:THR:HA	2:L:1051:GLU:OE2	2.11	0.51
2:L:911:GLN:NE2	2:L:1065:CYS:H	2.09	0.51
1:A:524:LYS:O	1:A:527:ALA:N	2.44	0.50
1:A:533:SER:O	1:A:611:THR:HA	2.11	0.50
1:A:911:LEU:O	1:A:911:LEU:HD12	2.11	0.50
1:B:1084:GLU:H	1:B:1084:GLU:CD	2.14	0.50
1:B:767:HIS:CB	1:B:813:LEU:HD12	2.40	0.50
1:B:988:VAL:HG12	1:B:990:LEU:HD23	1.93	0.50
1:C:1514:ILE:HD13	1:C:1545:LEU:HB3	1.93	0.50
1:C:382:ILE:HD12	1:C:761:SER:HB3	1.92	0.50
1:C:498:THR:CG2	1:C:858:LEU:HA	2.36	0.50
1:D:1640:LYS:HG3	1:D:1641:TYR:N	2.26	0.50
1:D:905:LEU:HD23	1:D:908:ILE:HD12	1.92	0.50
1:E:421:ARG:HH22	1:E:1613:LYS:CB	2.24	0.50
1:F:22:PHE:HE1	2:L:1867:MET:HG3	1.76	0.50
1:F:755:GLU:HB2	1:F:757:ASP:HB2	1.92	0.50
2:G:1289:TYR:CB	2:G:1370:LEU:HD23	2.41	0.50
2:G:1553:GLN:HB3	2:G:1554:PRO:CD	2.41	0.50
2:G:608:MET:HA	4:G:2101:FMN:N5	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:980:LEU:CD2	2:G:986:LEU:HD21	2.41	0.50
2:H:728:ILE:O	2:H:732:LYS:HG3	2.11	0.50
2:H:950:TRP:CE2	2:H:956:LYS:HG3	2.46	0.50
2:I:1248:GLU:OE2	2:I:1250:ARG:NE	2.43	0.50
2:I:167:VAL:CG2	2:I:169:ILE:HG13	2.40	0.50
2:J:1551:ILE:CG2	2:J:1552:GLU:N	2.74	0.50
2:J:2057:GLU:HA	2:J:2060:ARG:HH12	1.74	0.50
2:J:290:VAL:CG1	2:J:314:LEU:HD23	2.41	0.50
2:K:1171:TRP:CE3	2:K:1236:LEU:HD22	2.46	0.50
2:K:1975:GLU:O	2:K:1979:GLN:HG3	2.10	0.50
2:K:281:GLY:HA3	2:K:470:TYR:HE1	1.76	0.50
2:K:611:THR:HA	2:K:1051:GLU:OE2	2.11	0.50
2:K:614:PRO:O	2:K:618:VAL:HG12	2.11	0.50
2:K:859:SER:HB3	2:K:863:GLU:HG3	1.92	0.50
2:L:1370:LEU:CD1	2:L:1373:LEU:HD13	2.40	0.50
2:L:1315:ILE:HA	2:L:1393:ASP:O	2.11	0.50
2:L:1411:LYS:HB3	2:L:1435:TYR:HB2	1.92	0.50
2:L:1411:LYS:O	2:L:1434:LEU:HD12	2.11	0.50
2:L:1519:THR:O	2:L:1520:LYS:HB2	2.11	0.50
2:L:2062:THR:HG22	2:L:2063:GLY:N	2.25	0.50
2:L:204:ILE:HG21	2:L:312:VAL:HG21	1.92	0.50
2:L:727:VAL:HA	2:L:730:ILE:HG12	1.93	0.50
2:L:604:MET:CE	2:L:811:MET:HB2	2.41	0.50
1:A:1079:ARG:NH1	1:A:1079:ARG:CG	2.68	0.50
1:C:1565:PRO:O	1:C:1566:LYS:C	2.50	0.50
1:C:1584:GLY:HA2	1:C:1617:ILE:CD1	2.41	0.50
1:D:1164:ILE:CD1	1:D:1355:GLN:HG3	2.41	0.50
1:E:1426:GLU:HA	1:E:1429:ARG:HB2	1.94	0.50
1:E:1494:TRP:HE1	1:E:1509:THR:HG21	1.75	0.50
1:F:1229:THR:HB	1:F:1311:GLN:HG3	1.94	0.50
1:F:383:TYR:O	1:F:387:ILE:HG12	2.11	0.50
1:F:905:LEU:HD22	1:F:911:LEU:CD2	2.40	0.50
2:G:1028:VAL:HG13	2:G:1030:PHE:CD2	2.45	0.50
2:G:580:LEU:HG	2:G:1098:LEU:HD23	1.93	0.50
2:G:251:PRO:HG3	2:G:316:PHE:CA	2.40	0.50
2:G:490:LEU:HA	2:G:493:MET:SD	2.51	0.50
2:H:1421:ARG:HD2	2:H:1426:VAL:CG2	2.41	0.50
2:H:167:VAL:C	2:H:168:LYS:HD2	2.32	0.50
2:H:378:ILE:HG23	2:H:391:VAL:CG1	2.40	0.50
2:H:824:THR:HG22	2:H:828:ALA:HB3	1.93	0.50
2:H:966:VAL:O	2:H:970:PHE:HD1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1171:TRP:CH2	2:I:1236:LEU:HB2	2.46	0.50
2:I:1232:VAL:HA	2:I:1245:THR:O	2.11	0.50
2:I:1751:GLY:O	2:I:1755:LYS:HG2	2.10	0.50
2:I:76:VAL:O	2:I:80:ILE:HG13	2.10	0.50
2:J:837:GLY:HA3	2:J:1074:LYS:HG2	1.92	0.50
2:J:788:THR:HG22	2:J:1094:HIS:HE1	1.77	0.50
2:J:24:LEU:HD12	2:J:37:VAL:CG2	2.40	0.50
2:K:1845:VAL:CG2	2:K:1856:LEU:HD22	2.39	0.50
2:K:1881:TYR:CZ	2:K:2009:PHE:HE1	2.29	0.50
2:K:2005:PHE:HA	2:K:2010:LEU:HD11	1.93	0.50
2:K:2057:GLU:HA	2:K:2060:ARG:HH12	1.76	0.50
2:K:21:LEU:HD22	2:K:36:LEU:HG	1.93	0.50
2:L:589:PHE:CD1	2:L:1116:PHE:CD2	2.99	0.50
2:L:168:LYS:H	2:L:511:THR:HB	1.76	0.50
1:A:893:GLN:OE1	2:L:1751:GLY:HA2	2.11	0.50
2:L:2021:LEU:HD22	2:L:2025:ILE:HD11	1.93	0.50
2:L:609:THR:HG23	4:L:2101:FMN:O4	2.11	0.50
2:L:21:LEU:HD22	2:L:36:LEU:HG	1.91	0.50
1:A:883:LEU:HD23	1:A:883:LEU:N	2.27	0.50
1:B:766:ALA:HA	1:B:769:ILE:HD12	1.94	0.50
1:C:754:ARG:N	1:C:810:ASN:HB3	2.26	0.50
1:D:1213:VAL:CG1	1:D:1217:GLU:HB2	2.41	0.50
1:D:1307:PHE:HB3	1:D:1357:CYS:HB3	1.92	0.50
1:D:2:ARG:HB2	1:D:5:VAL:HB	1.94	0.50
1:E:801:LEU:HD13	1:E:822:GLU:HG2	1.93	0.50
1:F:1280:CYS:HA	1:F:1566:LYS:O	2.11	0.50
2:G:1074:LYS:HG3	2:G:1075:TYR:CD1	2.47	0.50
2:G:1099:LEU:HD12	2:G:1103:TYR:CB	2.41	0.50
2:G:1156:ASP:HB2	2:G:1159:SER:H	1.77	0.50
2:G:1229:VAL:HG12	2:G:1230:LYS:N	2.27	0.50
2:G:1340:LYS:CG	2:I:376:ARG:NH2	2.73	0.50
2:G:1378:ASN:HB3	2:G:1610:MET:HE3	1.93	0.50
2:G:1328:VAL:HA	2:G:1611:TYR:HE1	1.76	0.50
2:G:197:VAL:HA	2:G:262:MET:HE1	1.93	0.50
2:G:361:VAL:O	2:G:365:ILE:HG13	2.12	0.50
2:H:1192:LEU:HD22	2:H:1196:PHE:HE1	1.76	0.50
2:H:1515:LEU:HB3	2:H:1525:VAL:CG2	2.42	0.50
2:H:1750:GLY:O	2:H:1755:LYS:HE3	2.11	0.50
2:H:186:LEU:CG	2:H:256:VAL:HG22	2.41	0.50
2:H:35:PHE:HD2	2:H:37:VAL:HG22	1.76	0.50
2:H:700:GLU:H	2:H:700:GLU:CD	2.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1074:LYS:HG3	2:I:1075:TYR:CD1	2.46	0.50
2:I:1141:LYS:HE2	2:I:1143:SER:HB2	1.94	0.50
2:I:1910:VAL:HG11	2:I:1973:ILE:HG21	1.94	0.50
2:I:197:VAL:HG21	2:I:263:ILE:HD11	1.93	0.50
2:I:250:PHE:CB	2:I:251:PRO:HD3	2.41	0.50
2:G:1338:ARG:NH2	2:I:327:PRO:HD2	2.25	0.50
2:I:459:LYS:O	2:I:461:PRO:HD3	2.10	0.50
2:I:489:GLU:O	2:I:493:MET:HG3	2.11	0.50
2:I:882:LYS:HB3	2:I:898:ARG:NH1	2.26	0.50
2:J:1603:PRO:HD2	2:J:1606:ILE:HD11	1.93	0.50
2:J:1770:ASN:HB2	2:J:1776:LYS:CE	2.38	0.50
2:J:192:THR:O	2:J:194:PRO:HD3	2.11	0.50
2:J:204:ILE:HG21	2:J:312:VAL:HG21	1.93	0.50
2:K:914:TRP:CH2	2:K:1033:ALA:HA	2.46	0.50
2:K:1180:VAL:HA	2:K:1188:GLN:O	2.11	0.50
2:K:1194:ARG:HH21	2:K:1601:ASN:CG	2.15	0.50
2:K:1738:VAL:HA	2:K:1800:LEU:HD13	1.93	0.50
2:K:1555:VAL:HG21	2:K:1824:LYS:HA	1.94	0.50
2:K:663:ILE:HD12	2:K:663:ILE:N	2.26	0.50
2:K:727:VAL:HA	2:K:730:ILE:HG12	1.92	0.50
2:K:980:LEU:CD2	2:K:986:LEU:HD21	2.42	0.50
2:L:1586:ASP:OD1	2:L:1588:ASN:HB2	2.11	0.50
2:L:465:LEU:HB2	2:L:479:ARG:HG3	1.93	0.50
1:A:1241:LEU:HD23	1:E:1097:LEU:HD12	1.93	0.50
1:A:405:TRP:CH2	1:A:1609:SER:HB3	2.47	0.50
1:A:519:PHE:O	1:A:523:VAL:HG23	2.12	0.50
1:B:1161:ALA:O	1:B:1163:GLN:HG3	2.12	0.50
1:B:879:ASN:HB3	1:B:901:LEU:HD13	1.93	0.50
1:C:746:PHE:HB3	3:C:1901:NAP:H52N	1.92	0.50
1:C:626:TRP:CE3	1:C:898:PHE:HB2	2.47	0.50
1:D:1108:PRO:HA	1:D:1140:VAL:O	2.12	0.50
1:D:434:ILE:HD11	1:D:490:VAL:HG21	1.94	0.50
1:D:799:LEU:HD12	1:D:821:LEU:HB3	1.93	0.50
1:E:414:TYR:CE2	1:E:418:ILE:HD11	2.47	0.50
1:E:940:ASN:HB3	1:E:949:GLU:OE2	2.12	0.50
1:F:408:GLN:HG2	1:F:1610:ARG:NH1	2.25	0.50
1:F:989:ASN:H	1:F:1491:ASN:ND2	1.97	0.50
2:G:622:MET:O	2:G:656:ARG:NH1	2.44	0.50
2:G:752:HIS:CE1	2:G:856:THR:HG21	2.46	0.50
2:G:962:PHE:O	2:G:965:ARG:HB3	2.11	0.50
2:H:196:PHE:H	2:H:196:PHE:HD2	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2013:GLY:C	2:H:2016:PRO:HD2	2.32	0.50
2:I:1067:LEU:O	2:I:1068:GLN:HG2	2.11	0.50
2:I:1324:PHE:CA	2:I:1583:VAL:HG11	2.41	0.50
2:I:1753:ARG:HG3	2:I:1756:ILE:CD1	2.42	0.50
2:I:950:TRP:CE2	2:I:956:LYS:HG3	2.47	0.50
2:J:1067:LEU:O	2:J:1068:GLN:HG2	2.11	0.50
2:J:662:LEU:HD22	2:J:673:GLN:OE1	2.12	0.50
2:J:784:GLY:HA3	2:J:786:GLU:OE2	2.11	0.50
2:J:83:VAL:O	2:J:87:VAL:HG23	2.11	0.50
2:K:35:PHE:CE1	2:K:105:ILE:HD13	2.46	0.50
2:K:1156:ASP:HB2	2:K:1159:SER:H	1.76	0.50
2:K:1232:VAL:HA	2:K:1245:THR:O	2.12	0.50
2:K:1768:THR:O	2:K:1776:LYS:HB2	2.12	0.50
2:K:317:TRP:O	2:K:321:ARG:HG2	2.11	0.50
2:K:610:PRO:HD2	4:K:2101:FMN:C6	2.26	0.50
2:L:1468:ARG:NH1	2:L:1475:LEU:HD22	2.27	0.50
2:L:1643:VAL:HG13	2:L:1649:ILE:HD11	1.93	0.50
2:L:656:ARG:NH1	2:L:656:ARG:HG2	2.26	0.50
2:L:718:PRO:HG3	2:L:727:VAL:HG21	1.93	0.50
1:A:716:GLN:NE2	1:A:747:ALA:HB3	2.27	0.50
1:C:549:TYR:HE1	1:C:567:ASN:HB3	1.76	0.50
1:E:1078:ILE:HG23	1:E:1352:MET:CE	2.41	0.50
1:E:1164:ILE:CD1	1:E:1355:GLN:HG3	2.41	0.50
1:E:1335:ARG:HH11	1:E:1339:GLU:HG2	1.76	0.50
1:E:684:THR:HG21	1:E:691:VAL:HG11	1.93	0.50
1:F:1213:VAL:HG22	1:F:1300:ARG:CZ	2.42	0.50
1:F:2:ARG:HB2	1:F:5:VAL:HB	1.94	0.50
1:F:549:TYR:HE1	1:F:567:ASN:HB3	1.77	0.50
1:F:746:PHE:CD2	3:F:1901:NAP:H4D	2.47	0.50
1:F:956:ILE:HA	2:L:977:PRO:HA	1.93	0.50
2:G:1047:LEU:N	2:G:1047:LEU:HD12	2.26	0.50
2:G:700:GLU:H	2:G:700:GLU:CD	2.15	0.50
2:H:1083:ILE:HA	2:H:1086:ILE:HG13	1.94	0.50
2:H:1128:PRO:HG2	2:H:1135:ALA:CB	2.41	0.50
2:H:159:PHE:HA	2:H:162:ALA:HB3	1.92	0.50
2:H:1603:PRO:HD2	2:H:1606:ILE:HD11	1.92	0.50
2:H:291:VAL:O	2:H:295:ILE:HB	2.12	0.50
2:H:35:PHE:CD2	2:H:37:VAL:HG22	2.47	0.50
2:I:1301:PHE:CB	2:I:1364:ARG:NH1	2.75	0.50
2:I:604:MET:HE1	2:I:811:MET:HB2	1.93	0.50
2:I:966:VAL:O	2:I:970:PHE:HD1	1.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1468:ARG:NH1	2:J:1475:LEU:HD22	2.25	0.50
2:J:601:PRO:HB2	2:J:626:TYR:CE2	2.46	0.50
2:J:613:VAL:N	2:J:614:PRO:CD	2.75	0.50
2:J:685:VAL:CG1	2:J:687:ILE:HG13	2.40	0.50
2:J:825:SER:CB	2:J:1053:ILE:HG13	2.41	0.50
2:J:930:THR:O	2:J:934:VAL:HG23	2.11	0.50
2:K:1410:GLY:HA3	2:K:1436:ARG:HA	1.92	0.50
2:K:825:SER:O	2:K:828:ALA:HB3	2.10	0.50
2:K:917:ARG:HB2	2:K:937:ARG:HD3	1.93	0.50
2:L:250:PHE:CB	2:L:251:PRO:HD3	2.40	0.50
2:L:728:ILE:HG22	2:L:732:LYS:HE3	1.93	0.50
2:L:792:LEU:HD23	2:L:1094:HIS:CE1	2.46	0.50
2:L:855:ILE:HB	2:L:869:ALA:HB2	1.94	0.50
1:A:329:THR:O	1:A:332:GLN:HB2	2.12	0.50
1:B:875:GLU:O	1:B:878:PHE:HB3	2.11	0.50
1:C:1599:MET:HA	1:C:1602:PHE:CD2	2.46	0.50
1:D:1599:MET:HA	1:D:1602:PHE:CD2	2.47	0.50
1:D:714:PHE:CE1	1:D:725:LEU:HD12	2.47	0.50
1:E:1131:GLU:HG2	1:E:1138:TYR:CE2	2.47	0.50
1:E:1160:VAL:HB	1:E:1352:MET:HE1	1.93	0.50
1:B:585:MET:HG2	1:E:577:LEU:HD23	1.93	0.50
1:E:883:LEU:HA	1:E:888:ILE:HD12	1.93	0.50
1:F:1213:VAL:CG1	1:F:1214:HIS:N	2.74	0.50
1:F:1209:PHE:CE2	1:F:1301:VAL:HG21	2.45	0.50
2:G:1464:LEU:HD13	2:G:1468:ARG:HG3	1.93	0.50
2:G:1566:LYS:O	2:G:1568:PRO:HD3	2.10	0.50
2:G:1769:VAL:HG22	2:G:1775:ILE:CA	2.35	0.50
2:G:409:LYS:HB3	2:G:428:PHE:CZ	2.46	0.50
2:H:1436:ARG:HH22	2:H:1602:LEU:CD1	2.24	0.50
2:H:187:ARG:NH2	2:H:230:TRP:O	2.45	0.50
2:H:914:TRP:CD1	2:H:916:GLY:HA3	2.46	0.50
2:I:1224:GLN:OE1	2:I:1224:GLN:HA	2.11	0.50
2:I:1845:VAL:CG2	2:I:1856:LEU:HD22	2.41	0.50
2:I:2039:TYR:O	2:I:2041:PRO:HD3	2.11	0.50
2:I:605:VAL:CB	2:I:628:ILE:HG13	2.38	0.50
2:I:824:THR:HG22	2:I:828:ALA:HB3	1.93	0.50
2:J:1114:GLU:HB3	2:J:1169:TYR:HB3	1.92	0.50
2:J:1317:ASN:HB3	2:J:1320:ALA:CB	2.40	0.50
2:J:1497:ARG:O	2:J:1505:SER:HB3	2.11	0.50
2:J:1643:VAL:HG13	2:J:1649:ILE:HD11	1.93	0.50
2:J:1725:HIS:CD2	2:J:1854:GLU:CB	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:187:ARG:NH2	2:J:230:TRP:O	2.44	0.50
2:J:1969:LEU:HA	2:J:1972:ILE:HD12	1.93	0.50
2:J:21:LEU:HD13	2:J:36:LEU:HD21	1.93	0.50
2:J:741:LEU:CG	2:J:741:LEU:O	2.60	0.50
2:J:980:LEU:CD2	2:J:986:LEU:HD21	2.41	0.50
2:K:686:PRO:HB3	2:K:1187:PHE:CE1	2.46	0.50
2:K:126:VAL:HG12	2:K:127:ALA:H	1.77	0.50
2:J:376:ARG:HE	2:K:1339:GLY:HA2	1.76	0.50
2:K:1769:VAL:HG13	2:K:1774:SER:C	2.32	0.50
2:K:204:ILE:CG2	2:K:312:VAL:HG11	2.41	0.50
2:K:376:ARG:HH22	2:L:1340:LYS:CE	2.24	0.50
2:K:930:THR:CG2	2:K:933:GLU:HG3	2.38	0.50
2:K:938:MET:O	2:K:942:MET:HG3	2.11	0.50
2:L:1594:ARG:NH1	2:L:1594:ARG:CG	2.67	0.50
2:L:192:THR:O	2:L:194:PRO:HD3	2.11	0.50
2:L:2005:PHE:HA	2:L:2010:LEU:HD11	1.92	0.50
1:A:1160:VAL:HB	1:A:1352:MET:HE1	1.94	0.50
1:A:1207:TYR:CE2	1:A:1682:LYS:HD2	2.47	0.50
1:A:889:VAL:O	1:A:893:GLN:HG3	2.12	0.50
1:B:2:ARG:HB2	1:B:5:VAL:HB	1.93	0.50
1:B:684:THR:HG21	1:B:691:VAL:HG11	1.94	0.50
1:B:767:HIS:CG	1:B:813:LEU:HD12	2.46	0.50
1:D:1017:TYR:CD1	1:D:1017:TYR:N	2.80	0.50
1:D:1177:GLU:O	1:D:1180:ILE:HB	2.11	0.50
1:D:847:THR:OG1	1:D:876:MET:HG3	2.11	0.50
1:F:1094:LYS:HB3	1:F:1154:LEU:HB2	1.93	0.50
1:F:1183:VAL:HG13	1:F:1252:GLU:OE1	2.11	0.50
1:F:1338:GLY:C	1:F:1340:MET:H	2.15	0.50
2:G:1064:THR:HG22	2:G:1065:CYS:N	2.26	0.50
2:G:1181:PHE:CD1	2:G:1191:PRO:HD2	2.47	0.50
2:G:1456:LEU:HD11	2:G:1543:TYR:CE2	2.45	0.50
2:G:1603:PRO:HD2	2:G:1606:ILE:HD11	1.94	0.50
2:G:317:TRP:O	2:G:321:ARG:HG2	2.12	0.50
2:G:388:ASN:HD22	2:G:389:PHE:N	2.10	0.50
2:G:571:ASP:HB3	2:G:574:LYS:HB2	1.93	0.50
2:G:605:VAL:CB	2:G:628:ILE:HG13	2.38	0.50
2:G:917:ARG:HG2	2:G:917:ARG:HH11	1.67	0.50
2:H:1026:LYS:HE2	2:H:1045:ASP:OD2	2.12	0.50
2:H:1064:THR:HG22	2:H:1065:CYS:N	2.26	0.50
2:H:785:SER:HB3	2:H:1090:ILE:HG23	1.94	0.50
2:H:1266:HIS:CD2	2:H:1275:ARG:CZ	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1982:ALA:O	2:H:1984:PRO:HD3	2.11	0.50
2:H:250:PHE:O	2:H:315:LEU:HD23	2.11	0.50
2:H:276:LEU:HD21	2:H:296:ALA:HA	1.93	0.50
2:H:613:VAL:HG13	2:H:614:PRO:CD	2.42	0.50
2:I:1749:PHE:CG	2:I:1758:ARG:HB3	2.47	0.50
2:I:271:GLU:HB2	2:I:274:GLU:HG3	1.94	0.50
2:I:374:GLU:CA	2:I:377:HIS:CD2	2.78	0.50
2:I:22:ARG:HD2	2:I:42:HIS:HB3	1.93	0.50
2:I:818:THR:HG22	2:I:829:LYS:CB	2.41	0.50
2:I:952:ASP:OD1	2:I:953:PRO:HD2	2.12	0.50
2:I:962:PHE:O	2:I:965:ARG:HB3	2.10	0.50
2:J:1026:LYS:HG3	3:J:2102:NAP:N7A	2.26	0.50
2:J:1083:ILE:HA	2:J:1086:ILE:HG13	1.92	0.50
2:J:1299:VAL:HG22	2:J:1301:PHE:CD1	2.47	0.50
2:J:1328:VAL:HA	2:J:1611:TYR:HE1	1.76	0.50
2:J:1813:MET:HG3	2:J:1814:GLU:N	2.26	0.50
2:J:824:THR:HG22	2:J:828:ALA:HB3	1.93	0.50
2:J:937:ARG:NE	2:J:941:LEU:CD1	2.75	0.50
2:K:1411:LYS:HB2	2:K:1439:TYR:CD1	2.47	0.50
2:K:2008:THR:HG22	2:K:2011:ARG:HE	1.76	0.50
2:K:505:THR:HG22	2:K:505:THR:O	2.11	0.50
2:K:731:ALA:HA	2:K:739:ILE:CD1	2.40	0.50
2:L:2013:GLY:C	2:L:2016:PRO:HD2	2.32	0.50
2:L:21:LEU:HD13	2:L:36:LEU:HD21	1.93	0.50
2:L:451:ILE:O	2:L:455:VAL:HG23	2.11	0.50
2:L:670:MET:HB2	2:L:674:ILE:HD12	1.94	0.50
1:A:904:GLY:HA2	1:A:906:GLN:OE1	2.12	0.50
1:B:628:TYR:HD1	1:B:629:SER:N	2.10	0.50
1:C:988:VAL:HG12	1:C:990:LEU:HD23	1.93	0.50
1:D:1254:PHE:HB2	1:D:1257:THR:OG1	2.12	0.50
1:D:330:LYS:HG3	1:D:333:ARG:HH12	1.74	0.50
1:E:1623:THR:HG22	1:E:1633:GLN:HB2	1.94	0.50
1:E:1708:ASN:HD21	1:E:1712:LYS:NZ	2.10	0.50
1:E:430:VAL:O	1:E:434:ILE:HG13	2.12	0.50
2:G:1725:HIS:CD2	2:G:1854:GLU:HB3	2.45	0.50
2:G:1753:ARG:HG3	2:G:1756:ILE:HD11	1.94	0.50
2:G:762:LEU:HD11	2:G:800:PHE:CD2	2.46	0.50
2:G:825:SER:O	2:G:828:ALA:HB3	2.12	0.50
2:H:80:ILE:HG12	2:H:105:ILE:CG2	2.42	0.50
2:H:1232:VAL:HA	2:H:1245:THR:O	2.12	0.50
2:H:1946:LEU:HD22	2:H:1951:ILE:HG12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:511:THR:CG2	2:H:512:HIS:HD2	2.18	0.50
2:H:731:ALA:HA	2:H:739:ILE:CD1	2.41	0.50
2:I:915:PHE:HB2	2:I:1030:PHE:CD1	2.47	0.50
2:I:788:THR:HG22	2:I:1094:HIS:HE1	1.76	0.50
2:I:1180:VAL:HA	2:I:1188:GLN:O	2.11	0.50
2:I:1551:ILE:CG2	2:I:1552:GLU:N	2.75	0.50
2:I:1872:GLU:HA	2:I:1872:GLU:OE1	2.11	0.50
2:I:271:GLU:H	2:I:274:GLU:HG3	1.76	0.50
2:I:325:ALA:HB2	2:I:447:ALA:HB2	1.93	0.50
2:I:980:LEU:CD2	2:I:986:LEU:HD21	2.42	0.50
2:J:1120:ILE:HD13	2:J:1173:HIS:CE1	2.47	0.50
2:J:1315:ILE:HA	2:J:1393:ASP:O	2.12	0.50
2:J:1653:LEU:HD21	2:J:1667:VAL:HG13	1.94	0.50
2:J:2013:GLY:C	2:J:2016:PRO:HD2	2.33	0.50
2:J:35:PHE:HD2	2:J:37:VAL:HG22	1.77	0.50
2:J:502:GLU:O	2:J:506:VAL:HG23	2.12	0.50
2:J:731:ALA:HA	2:J:739:ILE:CD1	2.42	0.50
2:K:1236:LEU:HD12	2:K:1241:GLU:O	2.12	0.50
2:K:1442:TYR:CG	2:K:1499:LYS:O	2.65	0.50
2:K:1887:ASN:OD1	2:K:1889:SER:HB2	2.12	0.50
2:L:1015:HIS:NE2	2:L:1019:LEU:HD11	2.27	0.50
2:L:1180:VAL:HA	2:L:1188:GLN:O	2.11	0.50
2:L:613:VAL:HG13	2:L:614:PRO:HD3	1.94	0.50
2:L:752:HIS:NE2	2:L:856:THR:HG21	2.27	0.50
2:L:857:VAL:CG1	2:L:876:TRP:CD1	2.95	0.50
1:A:1082:GLU:HB2	1:A:1085:LEU:HD12	1.93	0.50
1:B:1183:VAL:HG11	1:B:1187:THR:CG2	2.41	0.50
1:B:1584:GLY:HA2	1:B:1617:ILE:CD1	2.41	0.50
1:B:552:ILE:HG12	1:E:552:ILE:CD1	2.39	0.50
1:B:569:LEU:HD22	1:E:544:ASP:HB3	1.94	0.50
1:C:1042:LEU:HD12	1:C:1058:PRO:HG3	1.94	0.50
1:C:1451:LYS:HE2	1:C:1463:GLU:OE2	2.11	0.50
1:C:1705:GLN:HA	1:C:1711:LEU:HD23	1.94	0.50
1:C:626:TRP:CZ3	1:C:898:PHE:HB2	2.47	0.50
1:C:960:ARG:NH1	2:I:968:GLU:CD	2.64	0.50
1:E:985:ARG:HB3	1:E:1422:ARG:HH22	1.76	0.50
1:C:1121:ARG:NH1	1:F:1153:ALA:O	2.45	0.50
1:F:1037:ASN:CG	1:F:1674:ILE:HG23	2.32	0.50
1:F:36:LEU:HD22	1:F:61:LEU:HD21	1.94	0.50
1:F:768:ARG:HA	1:F:772:THR:OG1	2.12	0.50
2:G:1083:ILE:HA	2:G:1086:ILE:HG13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1946:LEU:HD22	2:G:1951:ILE:HG12	1.94	0.50
2:H:1047:LEU:N	2:H:1047:LEU:HD12	2.27	0.50
2:H:1324:PHE:CA	2:H:1583:VAL:HG11	2.42	0.50
2:H:1362:PHE:N	2:H:1363:PRO:HD2	2.26	0.50
2:H:1551:ILE:CG2	2:H:1552:GLU:N	2.74	0.50
2:H:1821:MET:HA	2:H:1826:LEU:HD12	1.93	0.50
2:H:204:ILE:HG21	2:H:312:VAL:HG21	1.93	0.50
2:H:609:THR:CG2	2:H:633:GLY:HA3	2.42	0.50
2:H:796:TRP:HH2	2:H:805:MET:HE1	1.73	0.50
2:I:1128:PRO:HG2	2:I:1135:ALA:CB	2.42	0.50
2:I:21:LEU:HA	2:I:37:VAL:O	2.12	0.50
2:I:357:THR:HG22	2:I:359:SER:H	1.77	0.50
2:I:409:LYS:HB3	2:I:428:PHE:CZ	2.46	0.50
2:I:618:VAL:HG11	2:I:648:ILE:HD11	1.93	0.50
2:I:614:PRO:O	2:I:618:VAL:HG12	2.11	0.50
2:I:914:TRP:CD1	2:I:916:GLY:HA3	2.47	0.50
1:C:960:ARG:HH11	2:I:968:GLU:HB3	1.75	0.50
2:J:1026:LYS:HE2	2:J:1045:ASP:OD2	2.12	0.50
2:J:73:VAL:HA	2:J:113:PHE:CE2	2.47	0.50
2:J:1157:VAL:HG13	2:J:1197:ALA:HA	1.93	0.50
2:J:1411:LYS:O	2:J:1434:LEU:HD12	2.10	0.50
2:K:1769:VAL:HG22	2:K:1775:ILE:CA	2.32	0.50
2:K:21:LEU:HA	2:K:37:VAL:O	2.11	0.50
2:K:178:ASN:HA	2:K:434:PRO:HG2	1.94	0.50
2:K:465:LEU:HB2	2:K:479:ARG:CG	2.42	0.50
2:L:123:ALA:O	2:L:126:VAL:HG23	2.11	0.50
2:L:1370:LEU:CA	2:L:1435:TYR:HE2	2.24	0.50
2:L:2073:ASN:O	2:L:2076:LYS:HB3	2.12	0.50
2:L:31:LEU:HB2	2:L:72:VAL:HG22	1.94	0.50
1:A:1223:GLY:CA	1:A:1276:PRO:HD2	2.42	0.49
1:A:20:TYR:CE2	2:G:2062:THR:HG23	2.47	0.49
1:C:487:TYR:CE2	1:C:881:LEU:HD13	2.47	0.49
1:C:498:THR:HG21	1:C:858:LEU:O	2.12	0.49
1:D:767:HIS:CG	1:D:813:LEU:HD12	2.47	0.49
1:E:1164:ILE:HD12	1:E:1355:GLN:HG3	1.92	0.49
1:E:1186:VAL:HG23	1:E:1309:ASP:HB2	1.92	0.49
1:E:1705:GLN:HA	1:E:1711:LEU:HD23	1.94	0.49
1:E:536:SER:HB3	1:E:540:LYS:HB3	1.94	0.49
1:E:929:ARG:O	1:E:933:ILE:HG13	2.11	0.49
1:F:1160:VAL:C	1:F:1352:MET:HE1	2.32	0.49
1:F:329:THR:O	1:F:332:GLN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:472:GLN:HE21	1:F:472:GLN:HA	1.77	0.49
1:F:679:LYS:HG2	1:F:708:GLN:HB3	1.92	0.49
1:F:943:VAL:HG23	2:L:1539:PRO:HG3	1.94	0.49
2:G:1141:LYS:HE2	2:G:1143:SER:HB2	1.94	0.49
2:G:1208:ASN:N	2:G:1209:PRO:HD3	2.27	0.49
2:G:1234:ILE:HG12	2:G:1244:LEU:HD13	1.94	0.49
2:G:186:LEU:CG	2:G:256:VAL:HG22	2.42	0.49
2:G:1891:ILE:HD12	2:G:1895:PHE:CE2	2.47	0.49
2:G:2005:PHE:HA	2:G:2010:LEU:HD11	1.93	0.49
2:G:21:LEU:HA	2:G:37:VAL:O	2.11	0.49
2:G:609:THR:HG22	2:G:633:GLY:HA3	1.94	0.49
2:G:690:LEU:HD22	2:G:691:THR:N	2.27	0.49
2:H:1099:LEU:HD12	2:H:1103:TYR:CB	2.42	0.49
2:H:420:PRO:HG3	2:H:847:TYR:CD1	2.46	0.49
2:H:604:MET:HE1	2:H:811:MET:HB2	1.93	0.49
2:H:937:ARG:HG3	2:H:941:LEU:HD12	1.93	0.49
2:I:1093:ASP:O	2:I:1097:PHE:HD1	1.93	0.49
2:I:1157:VAL:HG13	2:I:1197:ALA:HA	1.94	0.49
2:I:1456:LEU:HD11	2:I:1543:TYR:CE2	2.43	0.49
2:I:1436:ARG:HH22	2:I:1602:LEU:CD1	2.22	0.49
2:I:1946:LEU:HD22	2:I:1951:ILE:HG12	1.94	0.49
2:I:857:VAL:CG1	2:I:876:TRP:NE1	2.74	0.49
2:J:44:GLN:HG3	2:J:101:VAL:CG2	2.41	0.49
2:J:102:LEU:O	2:J:106:LEU:HG	2.12	0.49
2:J:1594:ARG:CG	2:J:1594:ARG:NH1	2.62	0.49
2:J:607:GLY:HA2	2:J:612:THR:HG21	1.94	0.49
2:K:1436:ARG:NH2	2:K:1602:LEU:CD1	2.75	0.49
2:K:2021:LEU:HD22	2:K:2025:ILE:HD11	1.94	0.49
2:K:604:MET:CE	2:K:811:MET:HB2	2.41	0.49
2:L:1299:VAL:HG22	2:L:1301:PHE:CD1	2.46	0.49
2:L:1411:LYS:HB2	2:L:1439:TYR:CD1	2.47	0.49
2:L:1464:LEU:HD13	2:L:1468:ARG:HG3	1.93	0.49
2:L:1821:MET:HA	2:L:1826:LEU:HD12	1.93	0.49
2:L:520:GLY:C	2:L:522:SER:H	2.15	0.49
2:L:77:ALA:O	2:L:139:ALA:HB1	2.12	0.49
1:A:1011:ARG:NH1	1:A:1012:TRP:HA	2.27	0.49
1:A:1055:THR:OG1	1:A:1057:GLU:HG2	2.13	0.49
1:A:1213:VAL:CG1	1:A:1217:GLU:HB2	2.43	0.49
1:A:731:ASP:HB3	1:A:735:GLY:HA3	1.94	0.49
1:A:768:ARG:HA	1:A:772:THR:OG1	2.12	0.49
1:C:1079:ARG:CG	1:C:1079:ARG:NH1	2.68	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1142:LEU:H	1:C:1142:LEU:HD12	1.76	0.49
1:C:1150:ILE:HG12	1:F:1148:LEU:HD21	1.94	0.49
1:C:415:TYR:CD2	1:C:1614:THR:HA	2.47	0.49
1:D:414:TYR:CE2	1:D:418:ILE:HD11	2.47	0.49
1:E:1017:TYR:N	1:E:1017:TYR:HD1	2.10	0.49
1:E:1081:ILE:HG13	1:E:1159:LEU:O	2.12	0.49
1:E:755:GLU:HB2	1:E:757:ASP:HB2	1.94	0.49
1:F:754:ARG:N	1:F:810:ASN:HB3	2.26	0.49
2:G:1561:ILE:HB	2:G:1655:HIS:HB3	1.94	0.49
2:G:1659:ILE:HG13	2:G:1664:ILE:HD11	1.94	0.49
2:G:2017:PHE:CE2	2:G:2021:LEU:HD11	2.47	0.49
2:G:489:GLU:O	2:G:493:MET:HG3	2.12	0.49
2:G:728:ILE:HG22	2:G:732:LYS:HE3	1.94	0.49
2:H:1141:LYS:HE2	2:H:1143:SER:HB2	1.94	0.49
2:H:1157:VAL:HG22	2:H:1198:PRO:HD2	1.94	0.49
2:H:1637:VAL:HG11	2:H:1679:LEU:CD1	2.36	0.49
2:H:1910:VAL:HG11	2:H:1973:ILE:HG21	1.93	0.49
2:H:1986:PRO:O	2:H:1987:VAL:HB	2.12	0.49
2:I:1500:ASN:HB2	2:I:1503:VAL:H	1.77	0.49
2:J:1457:HIS:ND1	2:J:1487:THR:HG22	2.27	0.49
2:K:1305:LEU:H	2:K:1305:LEU:CD1	2.22	0.49
2:K:1643:VAL:HG13	2:K:1649:ILE:HD11	1.94	0.49
2:L:1086:ILE:O	2:L:1090:ILE:HG13	2.12	0.49
2:L:1251:THR:HG22	2:L:1292:VAL:HG13	1.94	0.49
2:K:330:SER:H	2:L:1331:THR:HG22	1.77	0.49
2:L:1986:PRO:O	2:L:1987:VAL:HB	2.11	0.49
2:L:317:TRP:O	2:L:321:ARG:HG2	2.13	0.49
2:J:1338:ARG:NH2	2:L:327:PRO:CD	2.73	0.49
2:L:604:MET:HE1	2:L:811:MET:HB2	1.94	0.49
2:L:929:MET:CE	2:L:934:VAL:HA	2.41	0.49
1:A:849:GLY:HA3	1:A:873:GLN:HG3	1.94	0.49
1:B:1534:GLU:HG2	1:B:1625:PHE:CE1	2.47	0.49
1:C:1579:GLN:O	1:C:1583:THR:HG23	2.11	0.49
1:C:24:MET:HB3	2:I:2043:VAL:HG12	1.94	0.49
1:C:486:VAL:HG13	1:C:648:LEU:H	1.77	0.49
1:B:1153:ALA:O	1:D:1121:ARG:NH1	2.43	0.49
1:D:1183:VAL:HG13	1:D:1252:GLU:OE1	2.12	0.49
1:E:1547:ARG:HG2	1:E:1604:TYR:HD1	1.75	0.49
1:E:612:ILE:HG12	1:E:628:TYR:HD2	1.69	0.49
1:F:1213:VAL:HG13	1:F:1217:GLU:HB2	1.94	0.49
2:G:1338:ARG:HH21	2:I:327:PRO:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1356:ALA:CB	2:G:1397:THR:HG22	2.42	0.49
2:G:756:ASP:CA	2:G:843:TRP:HH2	2.25	0.49
2:G:617:PHE:CE1	2:G:822:ALA:HB2	2.47	0.49
2:H:1217:ILE:O	2:H:1233:GLU:HA	2.12	0.49
2:H:1725:HIS:CD2	2:H:1854:GLU:CB	2.96	0.49
2:H:465:LEU:HB2	2:H:479:ARG:HG3	1.94	0.49
2:H:776:LEU:HG	2:H:807:PHE:CE2	2.47	0.49
2:H:617:PHE:CE1	2:H:822:ALA:HB2	2.47	0.49
2:I:1229:VAL:HG12	2:I:1230:LYS:N	2.27	0.49
2:I:611:THR:HA	2:I:1051:GLU:OE2	2.12	0.49
2:I:935:VAL:HG11	2:I:997:LEU:HD21	1.95	0.49
2:J:221:TYR:CE2	2:J:225:LEU:HD22	2.47	0.49
2:J:92:GLU:HA	2:J:95:HIS:CE1	2.48	0.49
2:K:1142:ILE:HG13	2:K:1209:PRO:HG2	1.94	0.49
2:J:329:THR:HG21	2:K:1333:GLU:CB	2.41	0.49
2:K:1402:ASN:ND2	2:K:1416:CYS:HB2	2.28	0.49
2:K:1622:THR:HG23	2:K:1627:ASN:OD1	2.12	0.49
2:K:167:VAL:HG23	2:K:169:ILE:HG13	1.93	0.49
2:K:416:GLN:HE22	2:K:425:LYS:H	1.60	0.49
2:K:601:PRO:HB2	2:K:626:TYR:CE2	2.47	0.49
2:K:92:GLU:HB3	2:K:95:HIS:NE2	2.27	0.49
2:L:208:LEU:HD12	2:L:227:ILE:CD1	2.41	0.49
2:L:44:GLN:HG3	2:L:101:VAL:CG2	2.42	0.49
1:A:336:PHE:O	1:A:339:GLN:HB2	2.12	0.49
1:B:1335:ARG:HH11	1:B:1339:GLU:HG2	1.77	0.49
1:B:1405:ARG:HA	1:D:1697:LEU:O	2.12	0.49
1:B:519:PHE:O	1:B:523:VAL:HG23	2.12	0.49
1:C:1001:GLU:O	1:C:1007:ASN:HA	2.11	0.49
1:C:1363:MET:HE3	1:C:1368:ALA:CB	2.42	0.49
1:B:1150:ILE:HG12	1:D:1148:LEU:CD2	2.42	0.49
1:D:1100:VAL:HG21	1:D:1150:ILE:CD1	2.43	0.49
1:D:336:PHE:O	1:D:339:GLN:HB2	2.13	0.49
1:D:628:TYR:OH	1:D:630:LYS:HG2	2.13	0.49
1:A:1148:LEU:HD21	1:E:1150:ILE:HG12	1.95	0.49
1:E:1419:LYS:O	1:E:1422:ARG:HB2	2.12	0.49
1:E:506:ILE:HD11	1:E:926:SER:HB3	1.93	0.49
1:F:1293:THR:HG23	1:F:1298:LYS:HB2	1.95	0.49
1:F:17:LEU:HD23	2:L:2043:VAL:CG2	2.42	0.49
2:G:126:VAL:HG12	2:G:127:ALA:H	1.75	0.49
2:G:1299:VAL:HG22	2:G:1301:PHE:CD1	2.48	0.49
2:G:1336:VAL:O	2:G:1336:VAL:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1468:ARG:NH1	2:G:1475:LEU:HD22	2.28	0.49
2:G:1752:PRO:O	2:G:1756:ILE:HG23	2.12	0.49
1:A:15:VAL:HG11	2:G:2022:LEU:CD2	2.41	0.49
2:G:2021:LEU:O	2:G:2025:ILE:HG13	2.12	0.49
2:G:271:GLU:HB2	2:G:274:GLU:HG3	1.94	0.49
2:G:914:TRP:CH2	2:G:1033:ALA:HA	2.48	0.49
2:H:1456:LEU:HD11	2:H:1543:TYR:CE2	2.45	0.49
2:H:1500:ASN:HB2	2:H:1503:VAL:H	1.78	0.49
2:H:1620:VAL:O	2:H:1624:ALA:HB3	2.12	0.49
2:H:1865:LEU:O	2:H:1869:VAL:HG22	2.12	0.49
2:H:798:THR:HA	2:H:802:TYR:O	2.11	0.49
2:H:907:ASN:OD1	2:H:913:VAL:HG12	2.12	0.49
2:I:1175:MET:HA	2:I:1274:ILE:CD1	2.42	0.49
2:I:1315:ILE:HA	2:I:1393:ASP:O	2.12	0.49
2:I:1750:GLY:N	2:I:1754:GLY:HA3	2.27	0.49
2:I:2063:GLY:O	2:I:2065:PRO:HD3	2.12	0.49
2:I:685:VAL:CG1	2:I:687:ILE:HG13	2.38	0.49
2:J:1734:ILE:O	2:J:1738:VAL:HG23	2.12	0.49
2:J:1752:PRO:O	2:J:1756:ILE:HG23	2.12	0.49
2:J:820:LYS:HG3	2:J:821:GLU:HG2	1.94	0.49
2:J:617:PHE:CD1	2:J:822:ALA:HA	2.47	0.49
2:K:1028:VAL:HG13	2:K:1030:PHE:CD2	2.47	0.49
2:K:580:LEU:HG	2:K:1098:LEU:HD23	1.95	0.49
2:K:1192:LEU:HD22	2:K:1196:PHE:HE1	1.76	0.49
2:K:1317:ASN:HB3	2:K:1320:ALA:CB	2.42	0.49
2:J:376:ARG:NH2	2:K:1340:LYS:CG	2.76	0.49
2:K:1370:LEU:HA	2:K:1435:TYR:CE2	2.48	0.49
2:K:1749:PHE:CG	2:K:1758:ARG:HB3	2.47	0.49
2:K:512:HIS:HE1	2:K:566:VAL:HG13	1.77	0.49
2:L:1231:THR:HG23	2:L:1595:VAL:CG2	2.37	0.49
2:L:1350:ILE:HG22	2:L:1429:VAL:HG11	1.94	0.49
2:L:1805:PHE:O	2:L:1808:PRO:HD2	2.11	0.49
2:L:1813:MET:HG3	2:L:1814:GLU:N	2.27	0.49
2:L:24:LEU:HD12	2:L:37:VAL:CG2	2.41	0.49
2:L:888:ARG:O	2:L:891:ARG:HB2	2.11	0.49
2:L:915:PHE:CD2	2:L:915:PHE:O	2.66	0.49
1:A:1075:HIS:HB3	1:A:1166:THR:HB	1.94	0.49
1:A:68:TYR:HD1	2:I:371:HIS:CD2	2.29	0.49
1:B:1017:TYR:N	1:B:1017:TYR:HD1	2.10	0.49
1:B:1079:ARG:CG	1:B:1079:ARG:NH1	2.69	0.49
1:B:1708:ASN:OD1	1:B:1710:GLU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:628:TYR:OH	1:B:630:LYS:HE2	2.12	0.49
1:C:1004:PRO:HD3	1:C:1572:TRP:CH2	2.47	0.49
1:C:358:PHE:C	1:C:358:PHE:CD2	2.85	0.49
1:D:1337:PRO:HA	1:D:1340:MET:HG3	1.95	0.49
1:D:542:GLN:CB	1:D:579:MET:HE2	2.17	0.49
1:E:965:TYR:OH	1:E:1199:LEU:HD22	2.11	0.49
1:E:1330:GLU:OE2	1:E:1342:ARG:NH2	2.45	0.49
1:E:1691:ILE:HG22	1:E:1695:VAL:HG23	1.94	0.49
1:E:731:ASP:HB3	1:E:735:GLY:HA3	1.95	0.49
1:F:504:GLY:HA2	1:F:929:ARG:HD2	1.94	0.49
2:G:1279:GLU:CD	2:G:1279:GLU:H	2.15	0.49
2:G:1370:LEU:HA	2:G:1435:TYR:CE2	2.45	0.49
2:G:1594:ARG:NH1	2:G:1594:ARG:CG	2.65	0.49
2:H:472:THR:HG23	2:H:499:VAL:HA	1.94	0.49
2:H:792:LEU:HD23	2:H:1094:HIS:ND1	2.28	0.49
2:H:978:SER:O	2:H:981:GLN:HG2	2.12	0.49
2:I:1515:LEU:HB3	2:I:1525:VAL:CG2	2.41	0.49
2:I:1603:PRO:HD2	2:I:1606:ILE:HD11	1.94	0.49
2:I:221:TYR:CE2	2:I:225:LEU:HD22	2.48	0.49
2:J:1180:VAL:CG1	2:J:1188:GLN:H	2.25	0.49
2:J:1749:PHE:CG	2:J:1758:ARG:HB3	2.48	0.49
2:J:416:GLN:HE22	2:J:425:LYS:H	1.61	0.49
2:J:609:THR:HG22	2:J:633:GLY:HA3	1.93	0.49
1:E:962:ASN:ND2	2:K:1006:GLN:NE2	2.47	0.49
2:K:914:TRP:CZ3	2:K:1033:ALA:HA	2.48	0.49
2:K:1083:ILE:HA	2:K:1086:ILE:HG13	1.93	0.49
2:K:1265:TYR:HE1	2:K:1267:PRO:HG3	1.73	0.49
2:K:1286:LYS:HD3	2:K:1362:PHE:HA	1.94	0.49
2:K:1709:TYR:CE2	2:K:1716:LYS:HG2	2.47	0.49
2:K:2013:GLY:O	2:K:2016:PRO:HD2	2.12	0.49
2:L:1192:LEU:HD22	2:L:1196:PHE:HE1	1.78	0.49
2:L:1352:VAL:HG11	2:L:1395:LEU:HD12	1.94	0.49
2:L:1891:ILE:HD12	2:L:1895:PHE:CE2	2.47	0.49
2:L:187:ARG:NH2	2:L:230:TRP:O	2.45	0.49
2:L:391:VAL:HG12	2:L:398:LEU:HD21	1.95	0.49
2:L:663:ILE:N	2:L:663:ILE:HD12	2.23	0.49
2:L:717:LYS:HD2	4:L:2101:FMN:O2	2.13	0.49
2:L:719:GLY:O	2:L:755:GLU:HG3	2.12	0.49
1:A:968:PRO:HG3	1:A:1376:TYR:CE1	2.47	0.49
1:A:1703:VAL:HG22	1:A:1713:PHE:N	2.27	0.49
1:C:1307:PHE:HB3	1:C:1357:CYS:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1079:ARG:CG	1:D:1079:ARG:NH1	2.64	0.49
1:D:1386:THR:HG22	1:D:1629:GLN:HE21	1.76	0.49
1:D:890:ASN:OD1	2:I:1755:LYS:HE2	2.13	0.49
1:E:1323:ALA:HB1	1:E:1351:PHE:CE2	2.48	0.49
1:E:334:ALA:O	1:E:338:GLN:HG3	2.12	0.49
1:E:716:GLN:NE2	1:E:747:ALA:HB3	2.28	0.49
2:G:1019:LEU:HA	2:G:1022:ARG:HD2	1.93	0.49
2:G:80:ILE:HG12	2:G:105:ILE:CG2	2.43	0.49
2:G:1821:MET:HA	2:G:1826:LEU:HD12	1.95	0.49
2:G:1807:GLN:HB3	2:G:1860:VAL:CG1	2.42	0.49
2:H:1517:LEU:HD12	2:H:1521:GLU:HB2	1.93	0.49
2:H:153:PRO:HB3	2:H:270:ARG:HH11	1.78	0.49
2:H:718:PRO:HG3	2:H:727:VAL:HG21	1.93	0.49
2:H:775:VAL:HG12	2:H:777:VAL:HG23	1.94	0.49
2:H:77:ALA:O	2:H:139:ALA:HB1	2.12	0.49
2:H:930:THR:CG2	2:H:933:GLU:H	2.25	0.49
2:I:196:PHE:H	2:I:196:PHE:HD2	1.60	0.49
2:I:608:MET:HA	4:I:2101:FMN:N5	2.27	0.49
2:J:1346:MET:CE	2:J:1617:ARG:NH2	2.75	0.49
2:K:1031:VAL:HG22	2:K:1041:TRP:HB3	1.95	0.49
2:K:1086:ILE:O	2:K:1090:ILE:HG13	2.13	0.49
2:K:1741:ASN:HD21	2:K:1798:GLY:HA3	1.77	0.49
2:K:1891:ILE:HD12	2:K:1895:PHE:CE2	2.48	0.49
2:K:208:LEU:HD12	2:K:227:ILE:CD1	2.40	0.49
2:K:528:THR:HA	2:K:531:ASN:ND2	2.27	0.49
2:K:582:LYS:HG3	2:K:1110:VAL:HG11	1.93	0.49
2:K:618:VAL:CG1	2:K:648:ILE:HD11	2.43	0.49
2:L:1142:ILE:HG13	2:L:1209:PRO:HG3	1.95	0.49
2:L:1456:LEU:HD11	2:L:1543:TYR:CE2	2.46	0.49
2:L:1653:LEU:HD21	2:L:1667:VAL:HG13	1.94	0.49
2:L:1749:PHE:CG	2:L:1758:ARG:HB3	2.47	0.49
2:L:618:VAL:CG1	2:L:648:ILE:HD11	2.42	0.49
2:L:76:VAL:O	2:L:80:ILE:HG13	2.12	0.49
1:A:1363:MET:HE3	1:A:1368:ALA:CB	2.42	0.49
1:B:1106:LEU:HD12	1:D:1104:GLN:HE22	1.78	0.49
1:B:358:PHE:CD2	1:B:358:PHE:C	2.86	0.49
1:B:493:PRO:HD2	1:B:517:ARG:O	2.13	0.49
1:B:983:GLN:O	1:B:987:MET:HG3	2.13	0.49
1:C:1082:GLU:HB2	1:C:1085:LEU:HD12	1.95	0.49
1:C:329:THR:O	1:C:332:GLN:HB2	2.13	0.49
1:C:330:LYS:HG3	1:C:333:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:ASN:HB3	1:C:585:MET:SD	2.52	0.49
1:C:628:TYR:HD1	1:C:629:SER:N	2.11	0.49
1:C:960:ARG:NH1	2:I:968:GLU:OE1	2.46	0.49
1:D:1223:GLY:CA	1:D:1276:PRO:HD2	2.42	0.49
1:D:536:SER:HB3	1:D:540:LYS:HD2	1.94	0.49
1:D:914:LEU:O	1:D:917:LYS:HB3	2.13	0.49
1:F:573:VAL:O	1:F:577:LEU:HG	2.13	0.49
2:G:1176:PHE:CE1	2:G:1192:LEU:HD13	2.48	0.49
1:A:88:ILE:HG21	2:G:1821:MET:HE2	1.93	0.49
2:G:270:ARG:HG3	2:G:274:GLU:CD	2.33	0.49
2:G:207:LEU:HD22	2:G:309:LYS:HG3	1.95	0.49
2:G:460:ILE:CD1	2:G:487:ILE:HD11	2.43	0.49
2:G:962:PHE:O	2:G:966:VAL:HG23	2.12	0.49
2:H:1115:TYR:OH	2:H:1173:HIS:HD2	1.95	0.49
2:H:1208:ASN:N	2:H:1209:PRO:HD3	2.27	0.49
2:H:1269:ALA:HB1	2:H:1271:TYR:CE1	2.47	0.49
2:H:1653:LEU:HD21	2:H:1667:VAL:HG13	1.95	0.49
2:H:357:THR:HG22	2:H:359:SER:H	1.76	0.49
2:H:614:PRO:O	2:H:618:VAL:HG12	2.13	0.49
2:H:743:TRP:CD2	2:H:761:ILE:HD11	2.48	0.49
2:H:870:THR:HG21	2:H:1064:THR:O	2.13	0.49
2:I:260:HIS:CE1	2:I:543:GLY:HA2	2.47	0.49
2:I:731:ALA:HA	2:I:739:ILE:CD1	2.42	0.49
1:C:962:ASN:HB3	2:I:969:ARG:HD2	1.94	0.49
2:J:582:LYS:HG3	2:J:1110:VAL:CG1	2.42	0.49
2:J:596:ARG:HD3	2:J:1119:ARG:HG3	1.94	0.49
2:J:1975:GLU:O	2:J:1979:GLN:HG3	2.12	0.49
1:D:20:TYR:CE2	2:J:2062:THR:HG23	2.46	0.49
2:J:361:VAL:O	2:J:365:ILE:HG13	2.12	0.49
2:J:622:MET:O	2:J:656:ARG:NH1	2.46	0.49
2:J:888:ARG:O	2:J:891:ARG:HB2	2.12	0.49
2:J:928:ASP:O	2:J:1007:LEU:HD23	2.13	0.49
2:K:1311:GLY:HA3	2:K:1397:THR:HB	1.95	0.49
2:K:1351:VAL:CG1	2:K:1352:VAL:N	2.75	0.49
2:K:1659:ILE:HG13	2:K:1664:ILE:HD11	1.94	0.49
2:K:1725:HIS:CD2	2:K:1854:GLU:CB	2.96	0.49
2:K:1947:LYS:HG2	2:K:1993:PHE:CD1	2.48	0.49
2:K:751:HIS:HB2	3:K:2102:NAP:N7N	2.28	0.49
2:K:827:GLN:H	2:K:827:GLN:CD	2.14	0.49
2:L:1204:VAL:HG22	2:L:1219:VAL:HG22	1.94	0.49
2:L:1421:ARG:HD2	2:L:1426:VAL:CG2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1946:LEU:HB3	2:L:1951:ILE:HD11	1.94	0.49
1:A:1580:VAL:O	1:A:1617:ILE:HD11	2.12	0.49
1:B:782:LYS:NZ	1:B:786:LYS:HD2	2.27	0.49
1:C:985:ARG:HB3	1:C:1422:ARG:HH22	1.78	0.49
1:C:716:GLN:NE2	1:C:747:ALA:HB3	2.28	0.49
1:C:853:MET:HG2	1:C:856:ASN:ND2	2.24	0.49
1:C:998:GLY:HA3	1:C:1361:VAL:CG1	2.36	0.49
1:D:1213:VAL:HG22	1:D:1300:ARG:CZ	2.42	0.49
1:D:1512:LEU:HD21	1:D:1641:TYR:CE2	2.48	0.49
1:D:94:PRO:HD3	2:J:1559:ASN:ND2	2.28	0.49
1:E:1338:GLY:C	1:E:1340:MET:H	2.15	0.49
1:E:450:TYR:C	1:E:450:TYR:CD2	2.85	0.49
1:E:626:TRP:CZ3	1:E:898:PHE:HB2	2.48	0.49
1:F:1001:GLU:O	1:F:1007:ASN:HA	2.12	0.49
1:C:1154:LEU:HD21	1:F:1118:GLU:OE2	2.12	0.49
1:F:1337:PRO:HA	1:F:1340:MET:CG	2.43	0.49
1:F:330:LYS:HG3	1:F:333:ARG:HH12	1.77	0.49
1:F:846:TRP:HZ2	1:F:856:ASN:O	1.96	0.49
2:G:1157:VAL:HG22	2:G:1198:PRO:HD2	1.95	0.49
2:G:1384:PRO:HB3	2:G:1829:ARG:HH12	1.78	0.49
1:A:22:PHE:HE1	2:G:1867:MET:HG3	1.77	0.49
2:G:1890:ARG:NH2	2:G:1996:ILE:HD11	2.17	0.49
2:G:928:ASP:HA	2:G:1007:LEU:HD23	1.94	0.49
2:G:935:VAL:HG11	2:G:997:LEU:HD21	1.94	0.49
2:H:1180:VAL:HA	2:H:1188:GLN:O	2.13	0.49
2:H:1411:LYS:O	2:H:1434:LEU:HD12	2.12	0.49
2:H:1768:THR:O	2:H:1776:LYS:HB2	2.13	0.49
2:H:1946:LEU:HB3	2:H:1951:ILE:HD11	1.94	0.49
2:I:1299:VAL:HG22	2:I:1301:PHE:CD1	2.48	0.49
2:I:1653:LEU:CD2	2:I:1667:VAL:HG13	2.43	0.49
2:I:460:ILE:O	2:I:486:ILE:HB	2.13	0.49
2:J:1342:PHE:HE2	2:J:1391:VAL:HB	1.78	0.49
2:J:1910:VAL:HG11	2:J:1973:ILE:HG21	1.94	0.49
2:J:420:PRO:HG3	2:J:847:TYR:CD1	2.48	0.49
2:J:520:GLY:C	2:J:522:SER:H	2.16	0.49
2:K:1404:VAL:HA	2:K:1412:MET:O	2.11	0.49
2:K:1555:VAL:O	2:K:1555:VAL:HG12	2.13	0.49
2:K:197:VAL:HA	2:K:262:MET:HE1	1.95	0.49
2:K:358:ARG:HB2	2:K:389:PHE:CE2	2.47	0.49
2:K:907:ASN:OD1	2:K:913:VAL:HG12	2.13	0.49
2:L:792:LEU:HD23	2:L:1094:HIS:ND1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1157:VAL:HG13	2:L:1197:ALA:HA	1.94	0.49
2:L:1561:ILE:HB	2:L:1655:HIS:HB3	1.95	0.49
2:L:1975:GLU:O	2:L:1979:GLN:HG3	2.13	0.49
1:F:9:LEU:HB2	2:L:2050:ILE:HD11	1.94	0.49
2:L:22:ARG:HD2	2:L:42:HIS:HB3	1.95	0.49
2:L:472:THR:HG23	2:L:499:VAL:HA	1.95	0.49
2:L:582:LYS:HA	2:L:587:GLN:O	2.12	0.49
2:L:614:PRO:O	2:L:618:VAL:HG12	2.13	0.49
1:A:503:ARG:HA	1:A:933:ILE:CD1	2.42	0.49
1:B:808:PHE:HA	1:B:912:LYS:HD3	1.95	0.49
1:B:929:ARG:O	1:B:933:ILE:HG13	2.12	0.49
1:C:682:VAL:HG11	1:C:695:TYR:CE2	2.47	0.49
1:C:833:TRP:HH2	1:C:839:ILE:HD11	1.78	0.49
1:D:1161:ALA:O	1:D:1163:GLN:HG3	2.13	0.49
1:D:1337:PRO:HA	1:D:1340:MET:CG	2.42	0.49
1:D:746:PHE:CD1	1:D:800:PRO:HG3	2.48	0.49
1:E:956:ILE:HG23	2:K:976:GLN:O	2.13	0.49
1:F:1005:TRP:HE1	1:F:1561:LEU:HD22	1.74	0.49
1:F:1208:GLU:OE2	1:F:1661:ARG:NH2	2.45	0.49
1:F:519:PHE:O	1:F:523:VAL:HG23	2.12	0.49
2:G:1074:LYS:HE3	2:G:1075:TYR:CE1	2.42	0.49
2:G:1301:PHE:O	2:G:1364:ARG:N	2.42	0.49
2:G:1380:TYR:HD2	2:G:1429:VAL:HG22	1.74	0.49
2:G:411:PRO:HD2	2:G:414:LEU:CD1	2.42	0.49
2:G:796:TRP:HH2	2:G:805:MET:HE1	1.77	0.49
2:G:825:SER:CB	2:G:1053:ILE:HG13	2.43	0.49
2:G:929:MET:HE1	2:G:934:VAL:HA	1.95	0.49
2:G:980:LEU:HD22	2:G:986:LEU:HD21	1.94	0.49
2:H:1017:LEU:HD21	2:H:1032:PRO:HB2	1.94	0.49
2:H:1420:LYS:HG2	2:H:1425:PRO:CA	2.41	0.49
2:H:1887:ASN:OD1	2:H:1889:SER:HB2	2.13	0.49
2:H:350:MET:HG3	2:H:435:ILE:CG2	2.43	0.49
2:H:622:MET:O	2:H:656:ARG:NH1	2.46	0.49
2:I:611:THR:HG22	2:I:1051:GLU:OE2	2.13	0.49
2:I:1359:LYS:O	2:I:1362:PHE:HD1	1.95	0.49
2:I:1311:GLY:HA3	2:I:1397:THR:HB	1.94	0.49
2:I:1738:VAL:HA	2:I:1800:LEU:HD13	1.94	0.49
1:C:88:ILE:HG21	2:I:1821:MET:CE	2.43	0.49
2:I:1946:LEU:HB3	2:I:1951:ILE:HD11	1.94	0.49
2:I:2053:GLU:HA	2:I:2056:GLU:OE1	2.13	0.49
2:I:571:ASP:OD1	2:I:573:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:956:ILE:HA	2:I:977:PRO:HA	1.94	0.49
2:J:1093:ASP:O	2:J:1097:PHE:CD1	2.64	0.49
2:J:1500:ASN:HB2	2:J:1503:VAL:H	1.78	0.49
2:J:1946:LEU:HB3	2:J:1951:ILE:HD11	1.94	0.49
2:J:378:ILE:HG23	2:J:391:VAL:CG1	2.43	0.49
2:J:699:ILE:H	2:J:699:ILE:CD1	2.25	0.49
2:J:915:PHE:CD2	2:J:915:PHE:O	2.65	0.49
2:K:1207:THR:O	2:K:1215:THR:HG23	2.13	0.49
2:K:1603:PRO:HD2	2:K:1606:ILE:HD11	1.95	0.49
1:E:9:LEU:HB2	2:K:2050:ILE:HD11	1.95	0.49
2:K:291:VAL:O	2:K:295:ILE:HB	2.11	0.49
2:K:735:PRO:HA	2:K:773:ASN:OD1	2.13	0.49
2:L:1745:LEU:HB3	2:L:1799:LEU:CD2	2.43	0.49
2:L:1725:HIS:CD2	2:L:1854:GLU:CB	2.96	0.49
2:L:622:MET:O	2:L:656:ARG:NH1	2.46	0.49
2:L:917:ARG:HB2	2:L:937:ARG:HD3	1.95	0.49
1:A:1330:GLU:HG2	1:A:1333:ARG:HH11	1.77	0.49
1:A:1547:ARG:HG2	1:A:1604:TYR:HD1	1.75	0.49
1:A:1651:TYR:CE2	1:A:1655:CYS:SG	3.06	0.49
1:A:445:LEU:O	1:A:448:MET:HB2	2.13	0.49
1:B:1293:THR:HG23	1:B:1298:LYS:HB2	1.93	0.49
1:B:1229:THR:HB	1:B:1311:GLN:HG3	1.93	0.49
1:B:1363:MET:HE1	1:B:1373:VAL:CG2	2.41	0.49
1:B:487:TYR:CE2	1:B:881:LEU:HD13	2.48	0.49
1:C:997:THR:CG2	1:C:1361:VAL:HG22	2.43	0.49
1:C:1447:VAL:CG2	1:C:1467:LEU:HD21	2.36	0.49
1:C:441:ASN:HB2	1:C:444:LEU:H	1.78	0.49
1:D:1082:GLU:HB2	1:D:1085:LEU:HD12	1.95	0.49
1:D:1692:GLN:HG3	1:D:1696:PHE:CE2	2.47	0.49
1:E:1177:GLU:O	1:E:1180:ILE:HB	2.12	0.49
1:E:30:GLU:HB2	2:K:2045:ALA:CB	2.42	0.49
1:E:868:VAL:HG11	1:E:908:ILE:CD1	2.38	0.49
1:F:1692:GLN:HG3	1:F:1696:PHE:CE2	2.48	0.49
2:G:1946:LEU:HB3	2:G:1951:ILE:HD11	1.95	0.49
2:G:2013:GLY:C	2:G:2016:PRO:HD2	2.33	0.49
2:G:208:LEU:HD12	2:G:227:ILE:CD1	2.41	0.49
2:G:735:PRO:HA	2:G:773:ASN:OD1	2.12	0.49
2:H:315:LEU:HA	2:H:318:ILE:HD12	1.94	0.49
2:H:43:PHE:CE2	2:I:22:ARG:CG	2.96	0.49
2:H:502:GLU:O	2:H:506:VAL:HG23	2.13	0.49
2:I:668:ARG:HH21	2:I:1023:ARG:HH12	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1380:TYR:HD2	2:I:1429:VAL:HG22	1.78	0.49
2:I:1328:VAL:HA	2:I:1611:TYR:HE1	1.78	0.49
2:I:1643:VAL:HG13	2:I:1649:ILE:HD11	1.94	0.49
2:H:43:PHE:CD2	2:I:22:ARG:CD	2.96	0.49
2:I:38:PRO:HD2	2:I:104:LEU:CD1	2.43	0.49
2:I:76:VAL:HG11	2:I:109:PHE:CD1	2.48	0.49
2:I:825:SER:O	2:I:828:ALA:HB3	2.13	0.49
2:I:837:GLY:HA3	2:I:1074:LYS:HG2	1.94	0.49
2:I:888:ARG:O	2:I:891:ARG:HB2	2.13	0.49
2:I:92:GLU:HA	2:I:95:HIS:CE1	2.48	0.49
2:J:1157:VAL:HG22	2:J:1198:PRO:HD2	1.95	0.49
2:J:1421:ARG:HD2	2:J:1426:VAL:CG2	2.43	0.49
2:J:1380:TYR:HD2	2:J:1429:VAL:HG22	1.77	0.49
2:J:1891:ILE:HD12	2:J:1895:PHE:CE2	2.47	0.49
2:J:2013:GLY:O	2:J:2016:PRO:HD2	2.13	0.49
2:J:291:VAL:O	2:J:295:ILE:HB	2.13	0.49
2:J:207:LEU:HD22	2:J:309:LYS:HG3	1.95	0.49
2:J:611:THR:HA	2:J:1051:GLU:OE2	2.13	0.49
2:J:676:LEU:C	2:J:676:LEU:HD13	2.34	0.49
2:K:300:THR:H	2:K:303:GLU:HB3	1.77	0.49
2:K:595:SER:HB2	2:K:600:VAL:O	2.13	0.49
2:K:915:PHE:CD2	2:K:915:PHE:O	2.66	0.49
2:L:1019:LEU:HA	2:L:1022:ARG:HD2	1.95	0.49
2:L:788:THR:HG22	2:L:1094:HIS:HE1	1.77	0.49
2:L:1497:ARG:O	2:L:1505:SER:HB3	2.13	0.49
2:L:1751:GLY:O	2:L:1755:LYS:HG2	2.12	0.49
2:L:798:THR:HA	2:L:802:TYR:O	2.12	0.49
2:L:820:LYS:HB3	2:L:1080:ASP:O	2.13	0.49
2:L:865:ILE:HG21	2:L:867:LYS:HE3	1.95	0.49
1:A:1307:PHE:CB	1:A:1357:CYS:HB3	2.43	0.48
1:A:756:ILE:HA	1:A:759:ILE:CD1	2.41	0.48
1:B:421:ARG:NH2	1:B:1613:LYS:HB3	2.28	0.48
1:C:1208:GLU:OE2	1:C:1661:ARG:NH2	2.46	0.48
1:D:1495:ARG:HG2	1:D:1495:ARG:HH11	1.77	0.48
1:E:1075:HIS:HB3	1:E:1166:THR:HB	1.93	0.48
1:E:1218:VAL:HG13	1:E:1301:VAL:CG1	2.43	0.48
1:E:973:TRP:NE1	1:E:1648:LYS:HB2	2.27	0.48
1:E:988:VAL:HG12	1:E:990:LEU:HD23	1.94	0.48
1:F:1075:HIS:HB3	1:F:1166:THR:HB	1.94	0.48
1:F:849:GLY:HA3	1:F:873:GLN:HG3	1.94	0.48
1:F:911:LEU:O	1:F:911:LEU:HD12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:788:THR:CG2	2:G:1094:HIS:CE1	2.96	0.48
2:G:1204:VAL:HA	2:G:1218:SER:O	2.13	0.48
2:G:1745:LEU:HD12	2:G:1746:THR:N	2.28	0.48
2:G:613:VAL:HG12	2:G:614:PRO:HD3	1.94	0.48
2:G:784:GLY:HA3	2:G:786:GLU:OE2	2.13	0.48
2:H:520:GLY:C	2:H:522:SER:H	2.16	0.48
2:H:931:TYR:O	2:H:935:VAL:HG12	2.13	0.48
2:I:1304:PRO:HA	2:I:1365:LYS:NZ	2.28	0.48
2:I:1344:ALA:N	2:I:1389:LEU:O	2.43	0.48
2:I:978:SER:O	2:I:981:GLN:HG2	2.12	0.48
2:J:1722:ALA:HB1	2:J:1812:LEU:HD21	1.95	0.48
2:J:300:THR:H	2:J:303:GLU:HB3	1.78	0.48
2:J:317:TRP:O	2:J:321:ARG:HG2	2.12	0.48
2:J:472:THR:HB	2:J:493:MET:HB3	1.95	0.48
2:J:529:ASN:HD22	2:J:552:VAL:CG2	2.26	0.48
2:J:978:SER:O	2:J:981:GLN:HG2	2.13	0.48
2:K:1932:ASP:O	2:K:1936:LEU:HD23	2.13	0.48
2:K:35:PHE:CD2	2:K:37:VAL:HG22	2.48	0.48
2:K:718:PRO:HG3	2:K:727:VAL:CG2	2.43	0.48
2:K:785:SER:O	2:K:789:TYR:HB2	2.13	0.48
2:K:857:VAL:HG13	2:K:876:TRP:CD1	2.46	0.48
2:L:1769:VAL:HG22	2:L:1775:ILE:CA	2.35	0.48
2:L:1894:THR:HB	2:L:1954:GLN:OE1	2.12	0.48
2:L:350:MET:HG3	2:L:435:ILE:CG2	2.43	0.48
2:L:718:PRO:HG2	2:L:741:LEU:CD1	2.43	0.48
1:A:1514:ILE:CD1	1:A:1545:LEU:HB3	2.44	0.48
1:A:1579:GLN:O	1:A:1583:THR:HG23	2.14	0.48
1:A:358:PHE:CD2	1:A:358:PHE:C	2.87	0.48
1:A:498:THR:HG22	1:A:508:TYR:CD1	2.49	0.48
1:A:801:LEU:HD13	1:A:822:GLU:HG2	1.94	0.48
1:A:876:MET:O	1:A:876:MET:HE3	2.13	0.48
1:B:1050:TRP:CE3	1:B:1050:TRP:HA	2.47	0.48
1:B:1213:VAL:CG1	1:B:1217:GLU:HB2	2.42	0.48
1:B:1414:PRO:HG2	1:D:1473:HIS:NE2	2.28	0.48
1:B:506:ILE:HD11	1:B:926:SER:HB3	1.95	0.48
1:C:801:LEU:HD13	1:C:822:GLU:HG2	1.95	0.48
1:C:533:SER:HA	1:C:907:PHE:CZ	2.48	0.48
1:D:422:LEU:HD13	1:D:429:ILE:HG12	1.95	0.48
1:D:759:ILE:HG12	1:D:813:LEU:HD23	1.96	0.48
1:D:848:ARG:HG2	1:D:871:PHE:O	2.12	0.48
1:E:1132:ILE:HD12	1:E:1137:GLN:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1330:GLU:HG2	1:E:1333:ARG:HH11	1.76	0.48
1:B:579:MET:HE1	1:E:907:PHE:CZ	2.47	0.48
1:F:547:SER:HA	1:F:550:LYS:HB2	1.95	0.48
2:G:1026:LYS:HE2	2:G:1045:ASP:OD2	2.13	0.48
2:G:1180:VAL:HA	2:G:1188:GLN:O	2.12	0.48
2:G:1344:ALA:N	2:G:1389:LEU:O	2.41	0.48
2:G:1932:ASP:O	2:G:1936:LEU:HD23	2.13	0.48
2:G:24:LEU:HD12	2:G:37:VAL:CG2	2.43	0.48
2:G:834:ASP:O	2:G:836:PRO:HD3	2.13	0.48
2:H:928:ASP:O	2:H:1007:LEU:HD23	2.13	0.48
2:H:1753:ARG:HG3	2:H:1756:ILE:HD11	1.95	0.48
2:I:1286:LYS:NZ	2:I:1367:ASP:HA	2.29	0.48
2:I:1299:VAL:HG13	2:I:1301:PHE:CE1	2.47	0.48
2:I:1195:LEU:HD23	2:I:1595:VAL:HG12	1.95	0.48
2:I:1731:GLY:O	2:I:1747:VAL:HG12	2.13	0.48
2:I:1975:GLU:O	2:I:1979:GLN:HG3	2.13	0.48
2:I:465:LEU:HB2	2:I:479:ARG:HG3	1.95	0.48
2:J:490:LEU:HA	2:J:493:MET:SD	2.53	0.48
2:J:582:LYS:HA	2:J:587:GLN:O	2.13	0.48
2:J:776:LEU:HG	2:J:807:PHE:CE2	2.47	0.48
2:J:827:GLN:O	2:J:830:GLN:HB3	2.12	0.48
2:J:845:ASN:HB3	2:J:851:THR:HG1	1.78	0.48
2:K:1141:LYS:HE2	2:K:1143:SER:HB2	1.95	0.48
2:K:460:ILE:O	2:K:486:ILE:N	2.46	0.48
2:K:489:GLU:O	2:K:492:ARG:HG2	2.13	0.48
2:K:779:GLY:HA3	2:K:811:MET:CE	2.42	0.48
2:K:797:SER:O	2:K:802:TYR:HB2	2.13	0.48
2:L:1515:LEU:HB3	2:L:1525:VAL:CG2	2.44	0.48
2:L:1738:VAL:HA	2:L:1800:LEU:HD13	1.95	0.48
2:L:1721:ARG:NH1	2:L:1854:GLU:OE2	2.46	0.48
2:L:749:GLY:HA3	4:L:2101:FMN:HM81	1.95	0.48
2:L:357:THR:HG22	2:L:359:SER:H	1.76	0.48
2:L:38:PRO:HD2	2:L:104:LEU:CD1	2.44	0.48
2:L:76:VAL:HG11	2:L:109:PHE:CD1	2.47	0.48
2:L:818:THR:HG22	2:L:829:LYS:CB	2.37	0.48
1:C:1001:GLU:HG2	1:C:1008:ALA:HB2	1.94	0.48
1:D:1031:MET:HE2	1:D:1031:MET:HB3	1.72	0.48
1:D:1363:MET:HE3	1:D:1368:ALA:CB	2.44	0.48
1:D:408:GLN:HE22	1:D:1610:ARG:H	1.61	0.48
1:E:1599:MET:HA	1:E:1602:PHE:CD2	2.48	0.48
1:E:746:PHE:CD2	3:E:1901:NAP:H4D	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:759:ILE:N	1:E:759:ILE:HD12	2.29	0.48
1:E:673:LEU:HD21	1:E:884:MET:CE	2.43	0.48
1:F:1113:LYS:O	1:F:1117:GLU:HG3	2.12	0.48
2:G:1128:PRO:HG2	2:G:1135:ALA:CB	2.44	0.48
2:G:1251:THR:HG22	2:G:1292:VAL:HG13	1.95	0.48
2:G:903:ILE:HD11	2:G:914:TRP:CZ2	2.47	0.48
2:H:1093:ASP:O	2:H:1097:PHE:CD1	2.65	0.48
2:H:1207:THR:O	2:H:1215:THR:HG23	2.13	0.48
2:H:1918:VAL:HG13	2:H:2006:HIS:CB	2.42	0.48
2:I:1074:LYS:HE3	2:I:1075:TYR:CE1	2.47	0.48
2:I:73:VAL:HA	2:I:113:PHE:CE2	2.49	0.48
2:I:1279:GLU:CD	2:I:1279:GLU:H	2.16	0.48
2:I:2008:THR:HG22	2:I:2011:ARG:HE	1.78	0.48
2:J:1352:VAL:HG11	2:J:1395:LEU:HD12	1.95	0.48
2:J:2017:PHE:CE2	2:J:2021:LEU:HD11	2.48	0.48
2:J:172:ILE:HG22	2:J:514:VAL:O	2.12	0.48
2:J:718:PRO:HG3	2:J:727:VAL:CG2	2.43	0.48
2:J:792:LEU:HD23	2:J:1094:HIS:CE1	2.48	0.48
2:J:917:ARG:HH11	2:J:917:ARG:HG2	1.68	0.48
2:K:1236:LEU:HD21	2:K:1239:ASP:O	2.12	0.48
2:K:1279:GLU:H	2:K:1279:GLU:CD	2.16	0.48
2:K:1519:THR:O	2:K:1520:LYS:HB2	2.13	0.48
2:K:192:THR:O	2:K:194:PRO:HD3	2.12	0.48
2:K:472:THR:HG23	2:K:499:VAL:HA	1.94	0.48
2:K:501:TRP:NE1	2:K:528:THR:CG2	2.71	0.48
2:K:950:TRP:CE2	2:K:956:LYS:HG3	2.47	0.48
2:L:1026:LYS:HE2	2:L:1045:ASP:OD2	2.14	0.48
2:L:582:LYS:HG3	2:L:1110:VAL:CG1	2.43	0.48
2:L:1204:VAL:HA	2:L:1218:SER:O	2.13	0.48
2:L:1403:ALA:HB2	2:L:1447:GLN:HG3	1.94	0.48
2:L:1587:TYR:O	2:L:1588:ASN:C	2.51	0.48
2:L:202:THR:O	2:L:206:GLU:HG3	2.14	0.48
2:L:731:ALA:HA	2:L:739:ILE:CD1	2.42	0.48
2:L:750:GLY:O	2:L:865:ILE:HA	2.13	0.48
1:A:1011:ARG:HH11	1:A:1012:TRP:HA	1.78	0.48
1:A:1131:GLU:HG2	1:A:1138:TYR:CE2	2.47	0.48
1:A:577:LEU:HB2	1:A:579:MET:HG2	1.96	0.48
1:A:526:MET:HE1	1:A:614:PHE:HB3	1.94	0.48
1:B:427:ARG:HG3	1:B:492:ILE:HG12	1.95	0.48
1:C:1160:VAL:C	1:C:1352:MET:HE1	2.33	0.48
1:C:782:LYS:NZ	1:C:786:LYS:HD2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1280:CYS:HA	1:D:1566:LYS:O	2.13	0.48
1:D:914:LEU:CD1	1:D:918:LEU:HD12	2.44	0.48
1:E:1017:TYR:N	1:E:1017:TYR:CD1	2.81	0.48
1:E:1213:VAL:CG1	1:E:1214:HIS:N	2.76	0.48
1:E:498:THR:HG21	1:E:858:LEU:O	2.13	0.48
1:E:529:GLY:HA2	1:E:614:PHE:CD2	2.49	0.48
1:F:1514:ILE:HD13	1:F:1545:LEU:HB3	1.94	0.48
2:G:1192:LEU:HD22	2:G:1196:PHE:HE1	1.76	0.48
2:G:1977:ARG:CD	2:G:1978:LYS:HG3	2.44	0.48
2:G:281:GLY:HA3	2:G:470:TYR:HE1	1.78	0.48
2:G:708:THR:HB	2:G:709:LEU:HD23	1.96	0.48
2:G:747:ARG:NH2	2:G:757:PHE:CE1	2.82	0.48
2:G:824:THR:HG22	2:G:828:ALA:HB3	1.95	0.48
2:H:1872:GLU:HA	2:H:1872:GLU:OE1	2.14	0.48
2:H:76:VAL:O	2:H:80:ILE:HG13	2.13	0.48
2:H:756:ASP:CA	2:H:843:TRP:HH2	2.25	0.48
2:I:35:PHE:CE1	2:I:105:ILE:HD13	2.48	0.48
2:I:1142:ILE:HG13	2:I:1209:PRO:HG3	1.95	0.48
2:I:1261:PHE:HE2	2:I:1285:ILE:HD11	1.77	0.48
2:I:1894:THR:HB	2:I:1954:GLN:OE1	2.14	0.48
2:I:751:HIS:HB2	3:I:2102:NAP:N7N	2.28	0.48
2:I:472:THR:HB	2:I:493:MET:HB3	1.95	0.48
2:I:663:ILE:CD1	2:I:663:ILE:H	2.10	0.48
2:I:765:TYR:CD2	2:I:805:MET:HG2	2.49	0.48
2:J:1192:LEU:HD22	2:J:1196:PHE:HE1	1.79	0.48
2:J:1336:VAL:HG12	2:J:1336:VAL:O	2.13	0.48
2:K:1499:LYS:CG	2:K:1500:ASN:H	2.25	0.48
2:K:318:ILE:HA	2:K:451:ILE:HD13	1.95	0.48
2:K:315:LEU:HA	2:K:318:ILE:HD12	1.94	0.48
2:K:326:TYR:HA	2:L:1338:ARG:HH21	1.78	0.48
2:K:353:ILE:HG22	2:K:353:ILE:O	2.12	0.48
2:K:48:LEU:HB2	2:K:79:TYR:OH	2.14	0.48
2:K:48:LEU:HD11	2:K:101:VAL:HG11	1.95	0.48
2:L:1753:ARG:HG3	2:L:1756:ILE:HD11	1.95	0.48
2:L:379:GLY:O	2:L:391:VAL:HG13	2.14	0.48
2:L:506:VAL:CG1	2:L:506:VAL:O	2.60	0.48
2:L:595:SER:HB3	2:L:602:PRO:CD	2.43	0.48
1:A:1037:ASN:CG	1:A:1674:ILE:HG23	2.33	0.48
1:A:744:VAL:HG12	1:A:746:PHE:CD1	2.49	0.48
1:A:759:ILE:HG12	1:A:813:LEU:HD23	1.96	0.48
1:B:1183:VAL:HG13	1:B:1252:GLU:OE1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:506:ILE:HD13	1:B:922:ILE:HG22	1.95	0.48
1:C:1640:LYS:HG3	1:C:1641:TYR:N	2.28	0.48
1:C:575:ARG:HG2	1:C:579:MET:SD	2.53	0.48
1:C:905:LEU:HD22	1:C:911:LEU:CD2	2.43	0.48
1:D:628:TYR:HD1	1:D:629:SER:N	2.12	0.48
1:E:1495:ARG:HG2	1:E:1495:ARG:HH11	1.77	0.48
1:E:843:VAL:HG22	1:E:843:VAL:O	2.13	0.48
1:F:1052:ASP:O	1:F:1055:THR:O	2.31	0.48
1:F:1223:GLY:CA	1:F:1276:PRO:HD2	2.41	0.48
1:F:1495:ARG:HG2	1:F:1495:ARG:HH11	1.78	0.48
1:F:1599:MET:HA	1:F:1602:PHE:CD2	2.48	0.48
1:F:20:TYR:CE1	2:L:2018:ARG:NH2	2.81	0.48
2:G:825:SER:HB2	2:G:1053:ILE:HG13	1.95	0.48
2:G:73:VAL:HA	2:G:113:PHE:CE2	2.49	0.48
2:G:1194:ARG:HH21	2:G:1601:ASN:CG	2.17	0.48
2:G:1404:VAL:HA	2:G:1412:MET:O	2.13	0.48
2:G:1436:ARG:NH2	2:G:1602:LEU:HD11	2.28	0.48
2:G:192:THR:O	2:G:194:PRO:HD3	2.13	0.48
2:G:1969:LEU:HA	2:G:1972:ILE:HD12	1.94	0.48
2:G:2039:TYR:O	2:G:2041:PRO:HD3	2.13	0.48
2:G:690:LEU:HD22	2:G:691:THR:H	1.78	0.48
2:G:917:ARG:HB2	2:G:937:ARG:HD3	1.94	0.48
2:H:1751:GLY:O	2:H:1752:PRO:C	2.52	0.48
2:H:416:GLN:HE22	2:H:425:LYS:H	1.60	0.48
2:H:663:ILE:N	2:H:663:ILE:HD12	2.27	0.48
2:I:911:GLN:NE2	2:I:1065:CYS:H	2.11	0.48
2:I:621:THR:OG1	2:I:1083:ILE:HD13	2.14	0.48
2:I:1208:ASN:N	2:I:1209:PRO:HD3	2.29	0.48
2:I:1288:PHE:CE2	2:I:1292:VAL:HG21	2.49	0.48
2:I:1350:ILE:HG22	2:I:1429:VAL:HG11	1.95	0.48
2:I:1443:GLU:HA	2:I:1443:GLU:OE1	2.14	0.48
2:I:1517:LEU:HD12	2:I:1521:GLU:HB2	1.94	0.48
2:I:1878:ARG:HE	2:I:1986:PRO:HG3	1.79	0.48
2:I:1905:GLU:O	2:I:1908:ALA:HB3	2.12	0.48
2:I:2010:LEU:O	2:I:2014:VAL:HG23	2.13	0.48
2:I:202:THR:HA	2:I:228:LEU:HD11	1.95	0.48
2:I:762:LEU:HD23	2:I:805:MET:HE1	1.93	0.48
2:I:868:LEU:O	2:I:870:THR:HG23	2.14	0.48
2:J:126:VAL:HG12	2:J:127:ALA:H	1.76	0.48
2:J:1293:TRP:NE1	2:J:1354:TRP:HZ2	2.11	0.48
2:J:1554:PRO:HG3	2:J:1659:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:532:LYS:HD3	2:J:537:VAL:HG21	1.95	0.48
2:J:609:THR:CG2	2:J:633:GLY:HA3	2.44	0.48
2:J:903:ILE:HD11	2:J:914:TRP:CZ2	2.48	0.48
2:K:1266:HIS:CD2	2:K:1275:ARG:CZ	2.97	0.48
2:K:1610:MET:CA	2:K:1610:MET:HE2	2.33	0.48
2:K:685:VAL:CG1	2:K:687:ILE:HG13	2.38	0.48
2:K:856:THR:HG23	2:K:866:HIS:NE2	2.28	0.48
2:L:1017:LEU:HD21	2:L:1032:PRO:HB2	1.96	0.48
2:L:1141:LYS:HE2	2:L:1143:SER:HB2	1.94	0.48
2:L:260:HIS:CE1	2:L:543:GLY:HA2	2.49	0.48
2:L:353:ILE:O	2:L:353:ILE:HG22	2.12	0.48
2:L:511:THR:C	2:L:512:HIS:CD2	2.87	0.48
2:L:617:PHE:CD1	2:L:822:ALA:HA	2.48	0.48
2:L:914:TRP:CD1	2:L:916:GLY:HA3	2.49	0.48
1:A:382:ILE:HD12	1:A:761:SER:HB3	1.95	0.48
1:A:401:SER:O	1:A:405:TRP:CD1	2.67	0.48
1:A:536:SER:HB3	1:A:540:LYS:HD2	1.96	0.48
1:B:585:MET:O	1:B:586:GLN:C	2.51	0.48
1:C:1075:HIS:HB3	1:C:1166:THR:HB	1.93	0.48
1:C:500:ILE:HD11	1:C:922:ILE:HG23	1.95	0.48
1:D:1463:GLU:O	1:D:1467:LEU:HB2	2.14	0.48
1:D:846:TRP:HZ2	1:D:856:ASN:O	1.96	0.48
1:E:1371:MET:O	1:E:1661:ARG:NH1	2.46	0.48
1:E:434:ILE:HD11	1:E:490:VAL:HG21	1.96	0.48
1:E:662:ALA:HA	1:E:694:TYR:OH	2.13	0.48
1:E:927:ALA:HB1	2:K:1462:GLN:NE2	2.29	0.48
1:F:1017:TYR:N	1:F:1017:TYR:CD1	2.80	0.48
1:F:1129:ILE:HA	1:F:1139:THR:O	2.13	0.48
2:G:260:HIS:CE1	2:G:543:GLY:HA2	2.48	0.48
2:G:372:LEU:CD1	2:G:397:SER:HB2	2.42	0.48
2:G:502:GLU:O	2:G:506:VAL:HG23	2.13	0.48
2:G:609:THR:HG23	4:G:2101:FMN:O4	2.13	0.48
2:G:699:ILE:HD12	2:G:699:ILE:N	2.28	0.48
2:H:1180:VAL:CG1	2:H:1188:GLN:H	2.27	0.48
2:H:1203:TYR:O	2:H:1219:VAL:HA	2.14	0.48
2:H:1405:ILE:HA	2:H:1445:THR:OG1	2.12	0.48
2:I:48:LEU:HD13	2:I:101:VAL:HG11	1.96	0.48
1:C:30:GLU:HB2	2:I:2045:ALA:CB	2.42	0.48
2:I:250:PHE:O	2:I:315:LEU:HD23	2.13	0.48
2:I:685:VAL:HA	2:I:686:PRO:HD3	1.60	0.48
2:I:907:ASN:HA	2:I:913:VAL:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:281:GLY:HA3	2:J:470:TYR:HE1	1.77	0.48
2:J:459:LYS:O	2:J:461:PRO:HD3	2.14	0.48
2:J:465:LEU:HB2	2:J:479:ARG:CG	2.43	0.48
2:J:613:VAL:HG13	2:J:614:PRO:HD3	1.96	0.48
2:K:835:ALA:HB3	2:K:1073:ALA:HB1	1.95	0.48
2:K:1350:ILE:HG22	2:K:1429:VAL:HG11	1.96	0.48
2:K:942:MET:O	2:K:951:ILE:HG13	2.13	0.48
2:L:621:THR:OG1	2:L:1083:ILE:HD13	2.13	0.48
2:L:1269:ALA:HB1	2:L:1271:TYR:CE1	2.49	0.48
2:L:1551:ILE:CG2	2:L:1552:GLU:N	2.76	0.48
2:L:1844:LEU:HD22	2:L:1850:VAL:HG21	1.95	0.48
1:A:1278:GLY:CA	1:A:1630:LYS:HE2	2.40	0.48
1:B:1094:LYS:HE3	1:B:1316:TYR:CG	2.48	0.48
1:B:620:LYS:HE3	1:B:626:TRP:CZ2	2.49	0.48
1:D:1293:THR:HG23	1:D:1298:LYS:HB2	1.95	0.48
1:D:997:THR:CG2	1:D:1361:VAL:HG22	2.44	0.48
1:D:1705:GLN:HA	1:D:1711:LEU:HD23	1.95	0.48
1:E:1004:PRO:HD3	1:E:1572:TRP:HH2	1.78	0.48
1:E:1640:LYS:HD2	1:E:1641:TYR:CE1	2.49	0.48
2:G:1369:ASP:OD1	2:G:1371:LEU:HB3	2.14	0.48
2:G:1975:GLU:O	2:G:1979:GLN:HG3	2.14	0.48
2:G:2013:GLY:O	2:G:2016:PRO:HD2	2.13	0.48
2:G:22:ARG:HD2	2:G:42:HIS:HB3	1.96	0.48
2:G:529:ASN:HD22	2:G:552:VAL:HG23	1.79	0.48
2:H:43:PHE:CZ	2:I:42:HIS:CD2	3.01	0.48
2:H:582:LYS:HA	2:H:587:GLN:O	2.13	0.48
2:I:1411:LYS:O	2:I:1434:LEU:HD12	2.13	0.48
1:C:23:ALA:HA	2:I:2007:SER:O	2.14	0.48
2:I:2044:THR:HG22	2:I:2046:LYS:H	1.78	0.48
2:I:187:ARG:NH2	2:I:230:TRP:O	2.46	0.48
2:I:317:TRP:O	2:I:321:ARG:HG2	2.13	0.48
2:I:752:HIS:NE2	2:I:856:THR:HG21	2.28	0.48
2:I:875:PHE:O	2:I:878:GLU:HB2	2.14	0.48
1:C:959:PRO:CG	2:I:974:GLU:HG3	2.42	0.48
2:J:1741:ASN:ND2	2:J:1798:GLY:HA3	2.29	0.48
2:J:1946:LEU:HD22	2:J:1951:ILE:HG12	1.95	0.48
2:J:674:ILE:HD13	2:J:705:TYR:HE2	1.73	0.48
2:J:752:HIS:NE2	2:J:856:THR:HG21	2.28	0.48
2:K:1299:VAL:HG13	2:K:1301:PHE:CE1	2.47	0.48
2:K:317:TRP:CD1	2:K:454:ASP:CG	2.87	0.48
2:K:613:VAL:N	2:K:614:PRO:CD	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:613:VAL:HG12	2:K:614:PRO:HD3	1.94	0.48
2:K:756:ASP:CA	2:K:843:TRP:HH2	2.27	0.48
2:K:937:ARG:NE	2:K:941:LEU:CD1	2.77	0.48
2:L:1402:ASN:ND2	2:L:1416:CYS:HB2	2.29	0.48
1:A:1703:VAL:CG1	1:A:1711:LEU:HB3	2.35	0.48
1:A:566:PHE:CE1	1:F:552:ILE:HD11	2.49	0.48
1:A:662:ALA:HA	1:A:694:TYR:CZ	2.49	0.48
1:B:1132:ILE:HD12	1:B:1137:GLN:HB2	1.94	0.48
1:C:427:ARG:HD2	1:C:490:VAL:HG12	1.96	0.48
1:C:585:MET:O	1:C:586:GLN:C	2.52	0.48
1:D:1050:TRP:CE3	1:D:1050:TRP:HA	2.48	0.48
1:D:36:LEU:HD21	1:D:44:ILE:HD11	1.96	0.48
1:D:491:SER:O	1:D:493:PRO:HD3	2.13	0.48
1:D:500:ILE:HD11	1:D:922:ILE:HG23	1.94	0.48
1:E:1363:MET:HE3	1:E:1368:ALA:CB	2.44	0.48
1:E:1702:ARG:NH1	1:E:1702:ARG:HG2	2.17	0.48
2:G:1497:ARG:O	2:G:1505:SER:HB3	2.14	0.48
2:G:1910:VAL:HG11	2:G:1973:ILE:HG21	1.94	0.48
2:G:609:THR:CB	2:G:610:PRO:HD3	2.44	0.48
2:H:1299:VAL:HG13	2:H:1301:PHE:CE1	2.49	0.48
2:H:1335:PHE:CZ	2:H:1629:ILE:HD13	2.49	0.48
2:H:391:VAL:HG12	2:H:398:LEU:HD21	1.95	0.48
2:I:1200:ARG:CD	2:I:1200:ARG:H	2.14	0.48
2:I:1610:MET:HA	2:I:1610:MET:CE	2.34	0.48
2:I:192:THR:O	2:I:194:PRO:HD3	2.14	0.48
2:I:2013:GLY:C	2:I:2016:PRO:HD2	2.33	0.48
2:I:270:ARG:HG3	2:I:274:GLU:CD	2.33	0.48
2:I:501:TRP:NE1	2:I:528:THR:CG2	2.75	0.48
2:J:1180:VAL:HA	2:J:1188:GLN:O	2.14	0.48
2:J:1251:THR:HG22	2:J:1292:VAL:HG13	1.94	0.48
2:J:1266:HIS:CD2	2:J:1275:ARG:CZ	2.97	0.48
2:J:1366:ILE:HG22	2:J:1366:ILE:O	2.13	0.48
2:J:1515:LEU:HB3	2:J:1525:VAL:CG2	2.44	0.48
2:J:2005:PHE:CA	2:J:2010:LEU:HD11	2.44	0.48
2:J:2044:THR:HG21	2:J:2054:TYR:CZ	2.48	0.48
2:J:271:GLU:H	2:J:274:GLU:HG3	1.78	0.48
2:J:618:VAL:CG1	2:J:648:ILE:HD11	2.43	0.48
2:J:663:ILE:N	2:J:663:ILE:HD12	2.25	0.48
2:J:716:PHE:CD1	2:J:727:VAL:HG13	2.48	0.48
2:K:1331:THR:HG22	2:K:1331:THR:O	2.13	0.48
2:K:1366:ILE:O	2:K:1366:ILE:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:202:THR:HA	2:K:228:LEU:HD11	1.96	0.48
2:K:2039:TYR:O	2:K:2041:PRO:HD3	2.13	0.48
2:K:372:LEU:CD1	2:K:397:SER:HB2	2.44	0.48
2:K:594:MET:HB3	2:K:808:ASP:O	2.13	0.48
2:K:820:LYS:HG3	2:K:821:GLU:HG2	1.95	0.48
2:L:1851:MET:HE3	2:L:2025:ILE:HG12	1.95	0.48
2:L:285:HIS:CD2	2:L:501:TRP:CE3	3.02	0.48
1:A:1102:ILE:HD11	1:A:1148:LEU:HG	1.95	0.48
1:A:31:THR:HG23	2:G:2040:ILE:CG2	2.37	0.48
1:A:492:ILE:H	1:A:492:ILE:HG13	1.48	0.48
1:A:754:ARG:N	1:A:810:ASN:HB3	2.28	0.48
1:B:1280:CYS:HA	1:B:1566:LYS:O	2.13	0.48
1:B:60:THR:HG23	2:H:1922:VAL:HG13	1.96	0.48
1:B:959:PRO:HG2	2:H:974:GLU:HG3	1.96	0.48
1:C:1236:TYR:O	1:F:1237:LYS:HB2	2.14	0.48
1:C:2:ARG:HB2	1:C:5:VAL:HB	1.95	0.48
1:C:720:GLN:HG3	1:D:378:GLU:OE2	2.14	0.48
1:D:827:ARG:NH1	1:D:831:GLU:OE2	2.46	0.48
1:D:859:VAL:O	1:D:859:VAL:HG12	2.13	0.48
1:D:967:PHE:CZ	1:D:1662:GLN:HA	2.49	0.48
1:E:1078:ILE:HG23	1:E:1352:MET:HE3	1.95	0.48
1:E:1084:GLU:CD	1:E:1084:GLU:H	2.17	0.48
1:A:562:SER:CB	1:F:555:GLN:OE1	2.62	0.48
2:G:1269:ALA:HB1	2:G:1271:TYR:CE1	2.49	0.48
2:G:1729:ASN:O	2:G:1757:ILE:HG23	2.13	0.48
2:G:608:MET:H	2:G:612:THR:CB	2.27	0.48
2:G:775:VAL:HG12	2:G:777:VAL:HG23	1.96	0.48
2:G:942:MET:O	2:G:951:ILE:HG13	2.14	0.48
2:H:1644:LEU:HB3	2:H:1645:PRO:CD	2.44	0.48
2:H:1769:VAL:HG13	2:H:1774:SER:C	2.34	0.48
2:H:1807:GLN:HB3	2:H:1860:VAL:CG1	2.44	0.48
2:I:1301:PHE:O	2:I:1364:ARG:N	2.41	0.48
2:I:1795:SER:HB3	2:I:1799:LEU:HD12	1.95	0.48
2:I:1835:GLY:HA3	2:I:1839:GLY:C	2.34	0.48
2:I:601:PRO:HA	2:I:602:PRO:HD3	1.76	0.48
2:J:1835:GLY:HA3	2:J:1839:GLY:C	2.34	0.48
2:J:505:THR:O	2:J:505:THR:HG22	2.14	0.48
2:J:80:ILE:HG12	2:J:105:ILE:CG2	2.44	0.48
2:K:1208:ASN:N	2:K:1209:PRO:HD3	2.28	0.48
2:K:1764:MET:HG3	2:K:1781:PHE:HE1	1.78	0.48
2:K:609:THR:HA	2:K:631:ALA:HB1	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:930:THR:CG2	2:K:933:GLU:H	2.24	0.48
2:L:73:VAL:HA	2:L:113:PHE:CE2	2.48	0.48
2:L:1517:LEU:HD12	2:L:1521:GLU:HB2	1.95	0.48
2:L:281:GLY:HA3	2:L:470:TYR:HE1	1.79	0.48
1:C:759:ILE:HG12	1:C:813:LEU:HD23	1.96	0.48
1:C:967:PHE:CD2	1:C:1662:GLN:HB2	2.49	0.48
1:D:1096:LEU:O	1:D:1097:LEU:HD23	2.14	0.48
1:D:684:THR:CG2	1:D:686:ARG:H	2.19	0.48
1:E:1148:LEU:HD23	1:E:1148:LEU:HA	1.59	0.48
1:E:1686:PRO:HB2	1:E:1713:PHE:CE1	2.49	0.48
1:F:1055:THR:OG1	1:F:1057:GLU:HG2	2.14	0.48
1:F:1323:ALA:HB1	1:F:1351:PHE:CE2	2.49	0.48
1:F:983:GLN:O	1:F:987:MET:HG3	2.13	0.48
2:G:1200:ARG:N	2:G:1200:ARG:HD3	2.10	0.48
2:G:1442:TYR:CG	2:G:1499:LYS:O	2.67	0.48
2:G:1977:ARG:HD3	2:G:1978:LYS:HG3	1.95	0.48
2:G:511:THR:CG2	2:G:512:HIS:HD2	2.16	0.48
2:G:582:LYS:HA	2:G:587:GLN:O	2.13	0.48
2:H:1204:VAL:HA	2:H:1218:SER:O	2.14	0.48
2:H:1369:ASP:OD1	2:H:1371:LEU:HB3	2.13	0.48
2:H:1894:THR:HB	2:H:1954:GLN:OE1	2.14	0.48
2:H:1871:VAL:HG21	2:H:2003:VAL:HA	1.94	0.48
2:H:1044:LYS:HE2	3:H:2102:NAP:H4B	1.96	0.48
2:H:300:THR:H	2:H:303:GLU:HB3	1.77	0.48
2:H:917:ARG:HB2	2:H:937:ARG:HD3	1.94	0.48
2:I:1142:ILE:HG13	2:I:1209:PRO:HG2	1.96	0.48
2:I:1881:TYR:CZ	2:I:2009:PHE:HE1	2.32	0.48
2:I:855:ILE:HB	2:I:869:ALA:HB2	1.95	0.48
2:J:1305:LEU:HD21	2:J:1365:LYS:HB2	1.96	0.48
2:J:1510:ILE:HA	2:J:1528:VAL:O	2.14	0.48
2:J:1519:THR:O	2:J:1520:LYS:HB2	2.14	0.48
2:K:1234:ILE:HG22	2:K:1242:ILE:HG22	1.95	0.48
2:K:903:ILE:HD11	2:K:914:TRP:CZ2	2.48	0.48
2:L:1208:ASN:N	2:L:1209:PRO:HD3	2.28	0.48
2:L:1745:LEU:HD12	2:L:1746:THR:H	1.79	0.48
2:L:1746:THR:CB	2:L:1792:THR:HG23	2.40	0.48
1:F:15:VAL:HG11	2:L:2022:LEU:CD2	2.42	0.48
2:L:290:VAL:CG1	2:L:314:LEU:HD23	2.42	0.48
2:L:35:PHE:CE1	2:L:105:ILE:HD13	2.49	0.48
2:L:489:GLU:O	2:L:493:MET:HG3	2.13	0.48
2:L:685:VAL:CG1	2:L:687:ILE:HG13	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:938:MET:O	2:L:942:MET:HG3	2.14	0.48
1:A:1419:LYS:O	1:A:1422:ARG:HB2	2.15	0.47
1:A:472:GLN:HE21	1:A:472:GLN:HA	1.79	0.47
1:A:493:PRO:HD2	1:A:517:ARG:O	2.14	0.47
1:B:857:ASN:HA	1:B:860:ALA:HB2	1.96	0.47
1:C:973:TRP:NE1	1:C:1648:LYS:HB2	2.28	0.47
1:D:1213:VAL:CG1	1:D:1214:HIS:N	2.77	0.47
1:D:754:ARG:N	1:D:810:ASN:HB3	2.29	0.47
1:D:740:LEU:HD12	1:D:781:ILE:HD13	1.96	0.47
1:E:1278:GLY:CA	1:E:1630:LYS:HE2	2.41	0.47
1:E:544:ASP:O	1:E:548:VAL:HG23	2.14	0.47
1:E:876:MET:O	1:E:876:MET:HE3	2.13	0.47
1:F:1367:LEU:HD22	1:F:1371:MET:HG3	1.96	0.47
1:F:46:GLU:HB3	1:F:80:CYS:HA	1.96	0.47
1:F:869:ARG:O	1:F:903:GLY:HA3	2.13	0.47
2:G:48:LEU:HD13	2:G:101:VAL:HG11	1.94	0.47
2:G:821:GLU:CD	2:G:1083:ILE:HG13	2.34	0.47
2:G:1317:ASN:HB3	2:G:1320:ALA:CB	2.44	0.47
2:G:196:PHE:CD2	2:G:196:PHE:N	2.82	0.47
2:G:1886:VAL:HG22	2:G:1995:THR:HG22	1.95	0.47
2:G:718:PRO:HG2	2:G:741:LEU:CD1	2.44	0.47
2:G:907:ASN:OD1	2:G:913:VAL:HG12	2.14	0.47
2:H:1328:VAL:HA	2:H:1611:TYR:HE1	1.79	0.47
2:H:1734:ILE:O	2:H:1738:VAL:HG23	2.13	0.47
2:H:134:ILE:HG13	2:H:545:ILE:CD1	2.44	0.47
2:H:930:THR:O	2:H:934:VAL:HG23	2.13	0.47
2:I:1402:ASN:ND2	2:I:1416:CYS:HB2	2.29	0.47
2:I:276:LEU:HD21	2:I:296:ALA:HA	1.95	0.47
2:I:350:MET:HG3	2:I:435:ILE:CG2	2.44	0.47
2:I:792:LEU:HD23	2:I:1094:HIS:CE1	2.49	0.47
2:I:914:TRP:CH2	2:I:1033:ALA:HA	2.48	0.47
2:J:529:ASN:HD22	2:J:552:VAL:HG23	1.79	0.47
2:J:614:PRO:O	2:J:618:VAL:HG12	2.13	0.47
2:J:914:TRP:CH2	2:J:1033:ALA:HA	2.49	0.47
2:K:1175:MET:HA	2:K:1274:ILE:CD1	2.44	0.47
2:K:1204:VAL:HA	2:K:1218:SER:O	2.14	0.47
2:K:260:HIS:CE1	2:K:543:GLY:HA2	2.49	0.47
2:K:502:GLU:O	2:K:506:VAL:HG23	2.14	0.47
2:K:708:THR:HB	2:K:709:LEU:HD23	1.96	0.47
2:K:705:TYR:HA	2:K:709:LEU:HD21	1.96	0.47
2:L:1047:LEU:N	2:L:1047:LEU:HD12	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1120:ILE:HG13	2:L:1169:TYR:CE2	2.49	0.47
2:L:1634:SER:HB3	2:L:1684:GLU:HB2	1.95	0.47
2:L:196:PHE:N	2:L:196:PHE:CD2	2.82	0.47
2:L:270:ARG:HG3	2:L:274:GLU:CD	2.34	0.47
2:L:775:VAL:HG12	2:L:777:VAL:HG23	1.95	0.47
1:A:1280:CYS:HB2	1:A:1626:GLY:HA2	1.95	0.47
1:A:441:ASN:HB2	1:A:444:LEU:H	1.79	0.47
1:A:36:LEU:HD21	1:A:44:ILE:HD11	1.95	0.47
1:B:546:ARG:NH1	1:B:631:LYS:NZ	2.62	0.47
1:B:535:TYR:CD1	1:B:610:GLU:HB3	2.49	0.47
1:B:746:PHE:CD1	1:B:800:PRO:HG3	2.49	0.47
1:C:1443:LEU:HD22	1:C:1474:ILE:HD11	1.95	0.47
1:C:36:LEU:HD21	1:C:44:ILE:HD11	1.96	0.47
1:C:409:ASP:HB2	1:C:439:ARG:HH12	1.79	0.47
1:C:849:GLY:HA3	1:C:873:GLN:HG3	1.95	0.47
1:C:989:ASN:H	1:C:1491:ASN:ND2	2.00	0.47
1:D:1131:GLU:HG2	1:D:1138:TYR:CE2	2.49	0.47
1:D:1565:PRO:O	1:D:1566:LYS:C	2.52	0.47
1:E:457:THR:HG22	1:E:464:GLN:HA	1.96	0.47
1:F:1330:GLU:HG2	1:F:1333:ARG:HH11	1.77	0.47
1:F:1337:PRO:HA	1:F:1340:MET:HG3	1.95	0.47
1:F:1463:GLU:O	1:F:1467:LEU:HB2	2.14	0.47
2:G:1515:LEU:HB3	2:G:1525:VAL:CG2	2.43	0.47
2:G:193:TYR:HD1	2:G:263:ILE:HD13	1.77	0.47
2:G:966:VAL:O	2:G:970:PHE:HD1	1.96	0.47
2:H:835:ALA:HB3	2:H:1073:ALA:HB1	1.95	0.47
2:H:788:THR:CG2	2:H:1094:HIS:CE1	2.97	0.47
2:H:1510:ILE:HA	2:H:1528:VAL:O	2.14	0.47
2:H:1753:ARG:HG3	2:H:1756:ILE:CD1	2.43	0.47
2:H:1932:ASP:O	2:H:1936:LEU:HD23	2.14	0.47
2:H:980:LEU:CD2	2:H:986:LEU:HD21	2.44	0.47
2:I:1171:TRP:CD1	2:I:1172:ARG:N	2.83	0.47
2:I:1314:GLU:O	2:I:1394:VAL:HA	2.15	0.47
2:I:2009:PHE:HD2	2:I:2009:PHE:C	2.18	0.47
2:I:501:TRP:CZ2	2:I:524:ILE:HG21	2.49	0.47
2:I:511:THR:CG2	2:I:512:HIS:HD2	2.17	0.47
2:J:1171:TRP:CH2	2:J:1236:LEU:HB2	2.49	0.47
2:J:155:ASP:HB3	2:J:278:ARG:NH1	2.29	0.47
2:J:737:PHE:O	2:J:773:ASN:HB3	2.14	0.47
2:J:917:ARG:HD3	2:J:937:ARG:CZ	2.43	0.47
2:J:937:ARG:HG3	2:J:941:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:202:THR:O	2:K:206:GLU:HG3	2.13	0.47
2:K:600:VAL:HG13	2:K:601:PRO:N	2.28	0.47
2:L:1622:THR:HA	2:L:1627:ASN:OD1	2.13	0.47
2:L:1865:LEU:O	2:L:1869:VAL:HG22	2.14	0.47
2:L:208:LEU:HD23	2:L:211:LEU:HD12	1.96	0.47
2:L:459:LYS:O	2:L:461:PRO:HD3	2.14	0.47
2:L:776:LEU:HG	2:L:807:PHE:CD2	2.48	0.47
2:L:92:GLU:HA	2:L:95:HIS:CE1	2.48	0.47
1:A:452:ILE:CD1	1:A:467:LYS:HA	2.43	0.47
1:A:502:ALA:HA	1:A:929:ARG:HD3	1.95	0.47
1:B:997:THR:CG2	1:B:1361:VAL:HG22	2.44	0.47
1:B:1514:ILE:HD13	1:B:1545:LEU:HB3	1.96	0.47
1:B:1565:PRO:O	1:B:1566:LYS:C	2.52	0.47
1:B:392:ASP:HA	1:B:393:PRO:HD2	1.70	0.47
1:B:962:ASN:HD22	2:H:1006:GLN:NE2	2.11	0.47
1:C:1161:ALA:O	1:C:1163:GLN:HG3	2.14	0.47
1:D:1160:VAL:C	1:D:1352:MET:HE1	2.35	0.47
1:D:329:THR:O	1:D:332:GLN:HB2	2.14	0.47
1:D:914:LEU:HD11	1:D:918:LEU:HD12	1.97	0.47
1:D:973:TRP:NE1	1:D:1648:LYS:HB2	2.28	0.47
1:E:1393:VAL:N	1:E:1394:PRO:CD	2.77	0.47
1:A:1499:ARG:CD	1:E:1476:ARG:HH12	2.20	0.47
1:F:1102:ILE:HD11	1:F:1148:LEU:HG	1.95	0.47
1:F:560:LYS:O	1:F:564:LEU:HB2	2.15	0.47
2:G:1200:ARG:H	2:G:1200:ARG:CD	2.14	0.47
2:G:601:PRO:HB2	2:G:626:TYR:CE2	2.50	0.47
2:H:1722:ALA:HB1	2:H:1812:LEU:HD21	1.95	0.47
2:H:290:VAL:HG11	2:H:315:LEU:CD1	2.44	0.47
2:H:608:MET:HA	4:H:2101:FMN:N5	2.30	0.47
2:H:609:THR:HG23	4:H:2101:FMN:O4	2.14	0.47
2:I:1204:VAL:HA	2:I:1218:SER:O	2.14	0.47
2:I:1538:ASN:HB3	2:I:1541:ILE:CG2	2.42	0.47
2:I:440:HIS:NE2	2:I:499:VAL:HG23	2.28	0.47
2:I:747:ARG:HH11	2:I:780:SER:CB	2.24	0.47
2:I:907:ASN:OD1	2:I:913:VAL:HG12	2.14	0.47
1:D:42:GLU:HG3	2:J:1689:VAL:HG23	1.95	0.47
2:J:202:THR:HA	2:J:228:LEU:HD11	1.96	0.47
2:J:153:PRO:HB3	2:J:270:ARG:NH1	2.29	0.47
2:J:617:PHE:HE1	2:J:819:ALA:HB3	1.79	0.47
2:J:942:MET:O	2:J:951:ILE:HG13	2.14	0.47
2:K:1123:ALA:O	2:K:1126:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:655:GLY:HA3	2:K:1272:ALA:CB	2.44	0.47
2:K:1305:LEU:HD23	2:K:1366:ILE:HD11	1.96	0.47
2:K:501:TRP:CZ2	2:K:524:ILE:HG21	2.49	0.47
2:K:609:THR:HG23	4:K:2101:FMN:O4	2.15	0.47
2:K:635:TYR:CD2	2:K:641:MET:HG3	2.49	0.47
2:K:818:THR:HG22	2:K:829:LYS:CB	2.36	0.47
2:L:1743:LYS:HA	2:L:1798:GLY:HA2	1.97	0.47
2:L:1905:GLU:O	2:L:1908:ALA:HB3	2.15	0.47
2:L:372:LEU:CD1	2:L:397:SER:HB2	2.43	0.47
2:L:460:ILE:O	2:L:486:ILE:N	2.46	0.47
2:L:747:ARG:HH11	2:L:780:SER:CB	2.22	0.47
1:A:535:TYR:HB2	1:F:576:ALA:HA	1.95	0.47
1:A:746:PHE:CG	3:A:1901:NAP:H4D	2.49	0.47
1:A:869:ARG:O	1:A:903:GLY:HA3	2.14	0.47
1:A:929:ARG:O	1:A:933:ILE:HG13	2.15	0.47
1:B:1599:MET:HA	1:B:1602:PHE:CD2	2.49	0.47
1:B:684:THR:CG2	1:B:686:ARG:H	2.18	0.47
1:B:846:TRP:HZ2	1:B:856:ASN:O	1.98	0.47
1:C:1108:PRO:HA	1:C:1140:VAL:O	2.15	0.47
1:C:537:ASN:CB	1:C:585:MET:SD	3.02	0.47
1:C:875:GLU:O	1:C:878:PHE:HB3	2.13	0.47
1:D:1004:PRO:HD3	1:D:1572:TRP:HH2	1.79	0.47
1:E:1157:ASP:O	1:E:1159:LEU:HD12	2.14	0.47
1:E:36:LEU:HD21	1:E:44:ILE:HD11	1.95	0.47
1:E:383:TYR:O	1:E:387:ILE:HG12	2.14	0.47
1:F:1307:PHE:HB3	1:F:1357:CYS:HB3	1.97	0.47
1:F:441:ASN:HB2	1:F:444:LEU:H	1.79	0.47
1:F:498:THR:HG21	1:F:858:LEU:O	2.15	0.47
2:G:1017:LEU:O	2:G:1021:GLN:HG3	2.15	0.47
2:G:1338:ARG:HH21	2:I:326:TYR:HA	1.79	0.47
2:G:1634:SER:HB3	2:G:1684:GLU:HB2	1.96	0.47
2:G:1945:ILE:HG22	2:G:1946:LEU:N	2.28	0.47
2:G:92:GLU:HA	2:G:95:HIS:CE1	2.49	0.47
2:G:937:ARG:NE	2:G:941:LEU:CD1	2.77	0.47
2:H:751:HIS:HB2	3:H:2102:NAP:N7N	2.29	0.47
2:I:167:VAL:HG23	2:I:169:ILE:HG13	1.95	0.47
2:H:43:PHE:CG	2:I:22:ARG:CZ	2.96	0.47
2:I:290:VAL:HG11	2:I:315:LEU:CD1	2.44	0.47
2:I:281:GLY:HA3	2:I:470:TYR:HE1	1.80	0.47
2:I:511:THR:C	2:I:512:HIS:CD2	2.88	0.47
2:I:798:THR:HA	2:I:802:TYR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:776:LEU:HG	2:I:807:PHE:CD2	2.49	0.47
2:J:1887:ASN:OD1	2:J:1889:SER:HB2	2.13	0.47
2:J:528:THR:HA	2:J:531:ASN:ND2	2.29	0.47
2:J:872:GLY:HA2	2:J:909:ASP:O	2.15	0.47
2:K:1972:ILE:H	2:K:1972:ILE:HG13	1.43	0.47
2:K:2063:GLY:O	2:K:2065:PRO:HD3	2.15	0.47
2:K:22:ARG:HD2	2:K:42:HIS:HB3	1.95	0.47
2:K:385:SER:HA	2:K:502:GLU:OE1	2.14	0.47
2:K:784:GLY:HA3	2:K:786:GLU:OE2	2.13	0.47
2:L:1203:TYR:O	2:L:1219:VAL:HA	2.14	0.47
2:L:1266:HIS:CD2	2:L:1275:ARG:CZ	2.97	0.47
2:L:1872:GLU:OE1	2:L:1872:GLU:HA	2.13	0.47
2:L:686:PRO:HB3	2:L:1187:PHE:HE1	1.76	0.47
1:A:408:GLN:CG	1:A:1610:ARG:NH1	2.78	0.47
1:A:565:GLN:O	1:A:569:LEU:HG	2.13	0.47
1:B:1042:LEU:HD12	1:B:1058:PRO:HG3	1.94	0.47
1:B:768:ARG:HA	1:B:772:THR:OG1	2.14	0.47
1:C:1229:THR:HB	1:C:1311:GLN:HG3	1.97	0.47
1:C:1330:GLU:HG2	1:C:1333:ARG:HH11	1.79	0.47
1:C:36:LEU:HD22	1:C:61:LEU:HD21	1.96	0.47
1:C:679:LYS:HG2	1:C:708:GLN:HB3	1.96	0.47
1:B:1496:ARG:NH2	1:D:1297:GLY:HA2	2.30	0.47
1:D:767:HIS:NE2	1:D:771:LEU:HD22	2.29	0.47
1:E:767:HIS:CB	1:E:813:LEU:HD12	2.42	0.47
1:E:626:TRP:CE3	1:E:898:PHE:HB2	2.49	0.47
1:F:1082:GLU:HB2	1:F:1085:LEU:HD12	1.97	0.47
1:F:1584:GLY:HA2	1:F:1617:ILE:CD1	2.45	0.47
2:G:589:PHE:CD1	2:G:1116:PHE:CD2	3.02	0.47
2:G:1331:THR:HG22	2:G:1331:THR:O	2.14	0.47
2:G:1586:ASP:OD1	2:G:1588:ASN:HB2	2.13	0.47
2:G:1753:ARG:HG3	2:G:1756:ILE:CD1	2.44	0.47
2:H:1656:VAL:O	2:H:1656:VAL:HG22	2.14	0.47
2:H:1701:GLU:N	2:H:1704:MET:HE3	2.29	0.47
2:H:1805:PHE:O	2:H:1808:PRO:HD2	2.13	0.47
2:H:168:LYS:H	2:H:511:THR:HB	1.79	0.47
2:H:685:VAL:HA	2:H:686:PRO:HD3	1.57	0.47
2:H:717:LYS:HD2	4:H:2101:FMN:O2	2.15	0.47
2:H:604:MET:CE	2:H:811:MET:HB2	2.45	0.47
2:I:1369:ASP:OD1	2:I:1371:LEU:HB3	2.15	0.47
2:I:300:THR:H	2:I:303:GLU:HB3	1.78	0.47
2:J:609:THR:HA	2:J:631:ALA:HB1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:76:VAL:HG11	2:J:109:PHE:CD1	2.49	0.47
2:J:818:THR:HA	2:J:829:LYS:HE2	1.97	0.47
2:K:76:VAL:HG11	2:K:109:PHE:CD1	2.49	0.47
2:K:1113:ILE:CG2	2:K:1169:TYR:CG	2.98	0.47
2:K:1115:TYR:CZ	2:K:1174:ALA:HB2	2.49	0.47
2:K:1554:PRO:HG3	2:K:1659:ILE:HD11	1.96	0.47
2:K:1766:PHE:CE1	2:K:1869:VAL:HG23	2.50	0.47
2:K:1961:SER:O	2:K:1965:VAL:HG22	2.15	0.47
2:K:388:ASN:HD22	2:K:389:PHE:N	2.13	0.47
2:L:1324:PHE:CA	2:L:1583:VAL:HG11	2.44	0.47
2:L:747:ARG:NH2	2:L:757:PHE:CE1	2.83	0.47
1:A:1186:VAL:HG12	1:A:1187:THR:N	2.30	0.47
1:A:1414:PRO:HG2	1:E:1473:HIS:NE2	2.30	0.47
1:A:1443:LEU:HD22	1:A:1474:ILE:HD11	1.96	0.47
1:A:413:MET:O	1:A:416:ASP:HB2	2.14	0.47
1:A:852:LEU:HD23	1:A:852:LEU:O	2.15	0.47
1:A:868:VAL:HG11	1:A:908:ILE:CD1	2.37	0.47
1:B:998:GLY:CA	1:B:1361:VAL:HG13	2.31	0.47
1:B:526:MET:HE3	1:B:614:PHE:HB2	1.97	0.47
1:B:849:GLY:HA3	1:B:873:GLN:HG3	1.97	0.47
1:C:984:LEU:HD21	1:C:1510:TRP:O	2.15	0.47
1:C:744:VAL:HG12	1:C:746:PHE:CD1	2.50	0.47
1:C:876:MET:HE3	1:C:876:MET:O	2.14	0.47
1:C:911:LEU:O	1:C:911:LEU:HD12	2.14	0.47
1:B:1148:LEU:CD1	1:D:1148:LEU:HD13	2.28	0.47
1:B:1236:TYR:O	1:D:1237:LYS:HB2	2.14	0.47
1:E:1404:ALA:HA	1:E:1501:ALA:HB1	1.96	0.47
1:E:407:ARG:NH2	1:E:1603:ASP:O	2.47	0.47
1:F:358:PHE:C	1:F:358:PHE:CD2	2.88	0.47
1:F:6:GLU:HA	2:L:2050:ILE:CD1	2.44	0.47
2:G:781:GLY:CA	2:G:1071:VAL:HG13	2.44	0.47
2:G:117:ASN:OD1	2:G:561:ARG:HB2	2.15	0.47
2:G:929:MET:HE1	2:G:934:VAL:HG22	1.95	0.47
2:H:1317:ASN:HB3	2:H:1320:ALA:CB	2.44	0.47
2:H:1749:PHE:CG	2:H:1758:ARG:HB3	2.50	0.47
2:H:2013:GLY:O	2:H:2016:PRO:HD2	2.14	0.47
2:I:2009:PHE:CD2	2:I:2009:PHE:C	2.88	0.47
2:I:502:GLU:O	2:I:506:VAL:HG23	2.14	0.47
2:I:57:PRO:HB2	2:I:65:GLN:HE22	1.78	0.47
2:J:1331:THR:HG22	2:J:1331:THR:O	2.15	0.47
2:J:1555:VAL:HG12	2:J:1555:VAL:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1561:ILE:HB	2:J:1655:HIS:HB3	1.97	0.47
2:J:1753:ARG:HG3	2:J:1756:ILE:HD11	1.95	0.47
2:J:318:ILE:HA	2:J:451:ILE:HD13	1.97	0.47
2:J:35:PHE:CD2	2:J:37:VAL:HG22	2.48	0.47
2:K:1708:LEU:HD22	2:K:1708:LEU:O	2.14	0.47
2:K:1886:VAL:HG22	2:K:1995:THR:HG22	1.95	0.47
2:K:270:ARG:HG3	2:K:274:GLU:CD	2.34	0.47
2:K:290:VAL:CG1	2:K:314:LEU:HD23	2.44	0.47
2:K:490:LEU:HA	2:K:493:MET:SD	2.55	0.47
2:K:285:HIS:CD2	2:K:501:TRP:CE3	3.02	0.47
2:L:1099:LEU:HD12	2:L:1103:TYR:CB	2.45	0.47
2:L:1311:GLY:HA3	2:L:1397:THR:HB	1.97	0.47
2:L:1555:VAL:O	2:L:1555:VAL:HG12	2.15	0.47
2:L:1722:ALA:HB1	2:L:1812:LEU:HD21	1.97	0.47
2:L:2013:GLY:O	2:L:2016:PRO:HD2	2.13	0.47
2:L:251:PRO:CG	2:L:316:PHE:HA	2.44	0.47
2:L:352:SER:HB2	2:L:433:LEU:HD11	1.96	0.47
2:L:765:TYR:CD2	2:L:805:MET:HG2	2.50	0.47
1:F:962:ASN:HB3	2:L:969:ARG:CD	2.42	0.47
1:A:1599:MET:HA	1:A:1602:PHE:CD2	2.48	0.47
1:A:334:ALA:O	1:A:338:GLN:HG3	2.15	0.47
1:A:960:ARG:NH1	2:G:968:GLU:OE1	2.47	0.47
1:B:1419:LYS:O	1:B:1422:ARG:HB2	2.14	0.47
1:B:1426:GLU:HA	1:B:1429:ARG:HB2	1.95	0.47
1:B:967:PHE:CD2	1:B:1662:GLN:HB2	2.50	0.47
1:D:392:ASP:HA	1:D:393:PRO:HD2	1.73	0.47
1:D:565:GLN:O	1:D:569:LEU:HG	2.13	0.47
1:E:1199:LEU:HD23	1:E:1199:LEU:O	2.14	0.47
1:F:1148:LEU:HA	1:F:1148:LEU:HD23	1.62	0.47
2:G:685:VAL:CG2	2:G:1186:ARG:HH12	2.19	0.47
2:G:1142:ILE:HG13	2:G:1209:PRO:HG2	1.97	0.47
2:G:2057:GLU:HA	2:G:2060:ARG:HH12	1.79	0.47
2:G:276:LEU:HD21	2:G:296:ALA:HA	1.96	0.47
2:G:472:THR:HG23	2:G:499:VAL:HA	1.97	0.47
2:G:932:ALA:O	2:G:935:VAL:HG13	2.14	0.47
2:H:1655:HIS:HE1	2:H:1657:GLY:O	1.98	0.47
2:H:1764:MET:HG3	2:H:1781:PHE:HE1	1.80	0.47
2:H:2009:PHE:CD2	2:H:2009:PHE:C	2.88	0.47
2:H:43:PHE:CB	2:I:22:ARG:NE	2.77	0.47
2:H:521:VAL:CG1	2:H:549:ASN:HB2	2.44	0.47
2:H:589:PHE:CD1	2:H:1116:PHE:CD2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:315:LEU:HA	2:I:318:ILE:HD12	1.95	0.47
2:I:582:LYS:HG3	2:I:1110:VAL:CG1	2.45	0.47
2:J:1844:LEU:HD22	2:J:1850:VAL:HG21	1.97	0.47
2:J:2021:LEU:HD22	2:J:2025:ILE:HD11	1.96	0.47
2:J:594:MET:HB3	2:J:808:ASP:O	2.14	0.47
2:J:792:LEU:HD23	2:J:1094:HIS:ND1	2.29	0.47
2:J:932:ALA:O	2:J:935:VAL:HG13	2.13	0.47
2:J:938:MET:O	2:J:942:MET:HG3	2.14	0.47
2:K:685:VAL:CG2	2:K:1186:ARG:NH1	2.69	0.47
2:K:1380:TYR:HD2	2:K:1429:VAL:HG22	1.80	0.47
2:K:1497:ARG:O	2:K:1505:SER:HB3	2.14	0.47
2:K:1515:LEU:HB3	2:K:1525:VAL:CG2	2.44	0.47
2:K:1551:ILE:HG22	2:K:1552:GLU:N	2.29	0.47
2:K:162:ALA:CA	2:K:167:VAL:HG22	2.42	0.47
2:K:1894:THR:HB	2:K:1954:GLN:OE1	2.15	0.47
2:K:728:ILE:O	2:K:732:LYS:HG3	2.14	0.47
2:L:1643:VAL:CG1	2:L:1649:ILE:HD11	2.44	0.47
2:L:1753:ARG:HG3	2:L:1756:ILE:CD1	2.44	0.47
2:L:743:TRP:CD2	2:L:761:ILE:HD11	2.48	0.47
2:L:76:VAL:HG11	2:L:109:PHE:HD1	1.79	0.47
2:L:914:TRP:CH2	2:L:1033:ALA:HA	2.50	0.47
1:A:1488:SER:HB3	1:E:1484:GLU:OE1	2.14	0.47
1:C:1184:ASP:OD1	1:C:1185:PRO:HD2	2.14	0.47
1:D:1075:HIS:HB3	1:D:1166:THR:HB	1.96	0.47
1:B:1106:LEU:HD12	1:D:1104:GLN:NE2	2.29	0.47
1:D:29:ILE:HD13	2:J:1923:ALA:HA	1.96	0.47
1:D:655:ALA:CB	1:D:742:TYR:HB2	2.45	0.47
1:E:1186:VAL:HG12	1:E:1187:THR:N	2.30	0.47
1:E:50:SER:HB2	1:E:52:THR:HG23	1.97	0.47
1:F:1640:LYS:HG3	1:F:1641:TYR:N	2.30	0.47
2:G:1028:VAL:HA	2:G:1029:PRO:HD3	1.74	0.47
2:G:1234:ILE:HG22	2:G:1242:ILE:HG22	1.96	0.47
2:G:1352:VAL:HG11	2:G:1395:LEU:HD12	1.96	0.47
2:G:168:LYS:H	2:G:511:THR:HB	1.80	0.47
2:G:1768:THR:O	2:G:1776:LYS:HB2	2.14	0.47
2:G:1914:LEU:O	2:G:1931:GLY:HA3	2.14	0.47
2:G:271:GLU:H	2:G:274:GLU:HG3	1.80	0.47
2:G:381:SER:OG	2:G:392:THR:HG23	2.14	0.47
2:H:1047:LEU:H	2:H:1047:LEU:HD12	1.79	0.47
2:H:126:VAL:HG12	2:H:127:ALA:H	1.79	0.47
2:H:1370:LEU:CA	2:H:1435:TYR:HE2	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1587:TYR:O	2:H:1588:ASN:C	2.53	0.47
2:H:1738:VAL:HA	2:H:1800:LEU:HD13	1.96	0.47
2:H:821:GLU:CD	2:H:1083:ILE:HG13	2.35	0.47
2:H:838:VAL:HG12	2:H:839:ASP:N	2.30	0.47
2:I:1561:ILE:HB	2:I:1655:HIS:HB3	1.97	0.47
2:I:1886:VAL:HG22	2:I:1995:THR:HG22	1.97	0.47
2:I:1910:VAL:CG1	2:I:1973:ILE:HG21	2.45	0.47
2:I:708:THR:HB	2:I:709:LEU:HD23	1.96	0.47
2:J:783:GLY:HA3	2:J:1075:TYR:CB	2.39	0.47
2:J:1229:VAL:HG12	2:J:1230:LYS:N	2.29	0.47
2:J:1634:SER:HB3	2:J:1684:GLU:HB2	1.96	0.47
2:J:1768:THR:O	2:J:1776:LYS:HB2	2.15	0.47
2:J:716:PHE:HD1	2:J:727:VAL:CG1	2.27	0.47
2:K:1321:VAL:HG12	2:K:1322:ALA:N	2.29	0.47
2:K:2058:VAL:CG1	2:K:2067:ILE:HD12	2.44	0.47
2:K:791:TYR:CD2	2:K:796:TRP:CG	3.03	0.47
2:K:611:THR:HG21	2:K:817:MET:HE2	1.95	0.47
2:K:846:THR:HG22	2:K:855:ILE:C	2.35	0.47
2:K:92:GLU:HA	2:K:95:HIS:CE1	2.49	0.47
2:L:1473:PHE:HE1	2:L:1513:VAL:HG21	1.79	0.47
2:L:250:PHE:O	2:L:315:LEU:HD23	2.15	0.47
2:L:521:VAL:CG1	2:L:549:ASN:HB2	2.44	0.47
2:L:534:GLY:O	2:L:571:ASP:HA	2.14	0.47
2:L:937:ARG:HG3	2:L:941:LEU:HD12	1.97	0.47
2:L:979:LEU:HB2	2:L:996:ILE:HG23	1.97	0.47
1:A:1213:VAL:CG1	1:A:1214:HIS:N	2.78	0.47
1:A:1218:VAL:HG13	1:A:1301:VAL:CG1	2.45	0.47
1:A:411:LEU:HD22	1:A:1612:ILE:HD13	1.96	0.47
1:A:960:ARG:HB3	2:G:969:ARG:NH1	2.30	0.47
1:B:427:ARG:NH1	1:B:427:ARG:CG	2.54	0.47
1:B:889:VAL:O	1:B:893:GLN:HG3	2.15	0.47
1:C:1414:PRO:HG2	1:F:1473:HIS:CD2	2.50	0.47
1:C:383:TYR:O	1:C:387:ILE:HG12	2.15	0.47
1:C:740:LEU:HD12	1:C:781:ILE:HD13	1.96	0.47
1:C:859:VAL:O	1:C:859:VAL:HG12	2.15	0.47
1:D:940:ASN:HB3	1:D:949:GLU:OE2	2.15	0.47
1:E:1592:ALA:O	1:E:1593:ASP:C	2.52	0.47
1:E:493:PRO:HD2	1:E:517:ARG:O	2.15	0.47
1:E:849:GLY:HA3	1:E:873:GLN:HG3	1.97	0.47
1:E:967:PHE:HB3	1:E:968:PRO:HD2	1.97	0.47
1:C:1104:GLN:HE22	1:F:1106:LEU:HD12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1232:LEU:HD23	1:F:1232:LEU:HA	1.67	0.47
1:F:1426:GLU:HA	1:F:1429:ARG:HB2	1.97	0.47
1:F:422:LEU:HD13	1:F:429:ILE:HG12	1.96	0.47
1:F:457:THR:HG22	1:F:464:GLN:HA	1.97	0.47
2:G:1194:ARG:NH2	2:G:1601:ASN:HA	2.30	0.47
2:G:1350:ILE:HD13	2:G:1610:MET:SD	2.55	0.47
2:G:2058:VAL:CG1	2:G:2067:ILE:HD12	2.45	0.47
2:G:416:GLN:HE22	2:G:425:LYS:H	1.63	0.47
2:G:465:LEU:HB2	2:G:479:ARG:HG3	1.96	0.47
2:G:77:ALA:O	2:G:139:ALA:HB1	2.14	0.47
2:H:1404:VAL:HA	2:H:1412:MET:O	2.14	0.47
2:H:1561:ILE:HB	2:H:1655:HIS:HB3	1.96	0.47
2:H:465:LEU:HB2	2:H:479:ARG:CG	2.45	0.47
2:H:609:THR:CB	2:H:610:PRO:HD3	2.44	0.47
2:I:1175:MET:HE1	2:I:1234:ILE:HG21	1.97	0.47
2:I:1375:HIS:CE1	2:I:1610:MET:SD	3.07	0.47
2:I:1903:VAL:HG11	2:I:1943:LEU:HD21	1.96	0.47
2:J:1141:LYS:HE2	2:J:1143:SER:HB2	1.96	0.47
2:J:1204:VAL:HA	2:J:1218:SER:O	2.15	0.47
2:J:501:TRP:CZ2	2:J:524:ILE:HG21	2.50	0.47
2:K:1820:ASP:O	2:K:1823:SER:HB3	2.15	0.47
2:K:327:PRO:O	2:L:1338:ARG:NH2	2.39	0.47
2:K:521:VAL:CG1	2:K:549:ASN:HB2	2.45	0.47
2:K:608:MET:H	2:K:612:THR:CB	2.26	0.47
2:K:821:GLU:CD	2:K:1083:ILE:HG13	2.35	0.47
2:K:871:ARG:HB2	2:K:909:ASP:HB2	1.95	0.47
2:K:929:MET:HE1	2:K:934:VAL:HA	1.96	0.47
2:L:821:GLU:CD	2:L:1083:ILE:HG13	2.34	0.47
2:L:2008:THR:HG22	2:L:2011:ARG:HE	1.80	0.47
2:L:300:THR:H	2:L:303:GLU:HB3	1.79	0.47
2:L:609:THR:CG2	2:L:633:GLY:HA3	2.44	0.47
1:A:1172:ARG:HG3	1:A:1172:ARG:HH11	1.79	0.47
1:A:1218:VAL:HG22	1:A:1301:VAL:CG1	2.44	0.47
1:A:1702:ARG:HG2	1:A:1702:ARG:NH1	2.20	0.47
1:A:487:TYR:CE2	1:A:881:LEU:HD13	2.50	0.47
1:B:334:ALA:O	1:B:338:GLN:HG3	2.15	0.47
1:B:967:PHE:CD2	1:B:1374:PRO:HG3	2.50	0.47
1:C:1303:LEU:HD23	1:C:1303:LEU:HA	1.62	0.47
1:C:1402:THR:HG22	1:F:1696:PHE:HB3	1.96	0.47
1:C:1692:GLN:HG3	1:C:1696:PHE:CE2	2.49	0.47
1:C:399:TYR:HH	1:C:692:THR:HG23	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:626:TRP:CD2	1:C:898:PHE:HD1	2.33	0.47
1:D:1306:GLY:O	1:D:1357:CYS:HB2	2.15	0.47
1:D:536:SER:HB3	1:D:540:LYS:HB3	1.96	0.47
1:D:679:LYS:HG2	1:D:708:GLN:CB	2.45	0.47
1:E:1172:ARG:HG3	1:E:1172:ARG:HH11	1.80	0.47
1:E:1307:PHE:HB3	1:E:1357:CYS:HB2	1.97	0.47
1:E:1307:PHE:CB	1:E:1357:CYS:HB3	2.44	0.47
1:E:968:PRO:CD	1:E:1374:PRO:HB3	2.45	0.47
1:E:995:VAL:HG13	1:E:1375:ILE:HG23	1.96	0.47
1:E:1514:ILE:CD1	1:E:1545:LEU:HB3	2.44	0.47
1:F:1484:GLU:O	1:F:1487:THR:HB	2.14	0.47
1:F:413:MET:O	1:F:416:ASP:HB2	2.15	0.47
1:F:893:GLN:OE1	2:G:1751:GLY:HA2	2.15	0.47
2:G:1047:LEU:H	2:G:1047:LEU:HD12	1.80	0.47
2:G:1093:ASP:O	2:G:1097:PHE:HD1	1.98	0.47
2:G:1749:PHE:CG	2:G:1758:ARG:HB3	2.50	0.47
1:A:9:LEU:HB2	2:G:2050:ILE:HD11	1.97	0.47
2:G:347:PRO:HA	2:G:432:PHE:CE1	2.49	0.47
2:G:929:MET:CE	2:G:934:VAL:HA	2.45	0.47
2:H:1708:LEU:HD22	2:H:1708:LEU:O	2.15	0.47
2:H:582:LYS:HG3	2:H:1110:VAL:CG1	2.45	0.47
2:H:912:LYS:HB3	2:H:1030:PHE:HA	1.97	0.47
2:I:1266:HIS:CD2	2:I:1275:ARG:CZ	2.98	0.47
2:I:1813:MET:HG3	2:I:1814:GLU:N	2.30	0.47
2:I:289:ILE:HG12	2:I:493:MET:CE	2.43	0.47
2:I:520:GLY:C	2:I:522:SER:H	2.17	0.47
2:I:609:THR:CB	2:I:610:PRO:HD3	2.44	0.47
2:I:609:THR:HA	2:I:631:ALA:HB1	1.95	0.47
2:I:718:PRO:HG3	2:I:727:VAL:HG21	1.97	0.47
2:J:870:THR:HG21	2:J:1064:THR:O	2.15	0.47
2:J:1200:ARG:CD	2:J:1200:ARG:H	2.13	0.47
2:J:1442:TYR:CG	2:J:1499:LYS:O	2.67	0.47
2:J:541:LEU:HG	2:J:552:VAL:CG1	2.45	0.47
2:J:685:VAL:HA	2:J:686:PRO:HD3	1.59	0.47
2:J:871:ARG:HB2	2:J:909:ASP:HB2	1.96	0.47
2:K:1269:ALA:HB1	2:K:1271:TYR:CE1	2.50	0.47
2:K:1278:MET:HA	2:K:1281:ARG:HB2	1.97	0.47
2:K:1301:PHE:HB3	2:K:1364:ARG:HG3	1.97	0.47
2:L:1910:VAL:HG11	2:L:1973:ILE:HG21	1.97	0.47
1:F:34:VAL:HG11	2:L:2047:PRO:HD3	1.97	0.47
2:L:608:MET:HA	4:L:2101:FMN:N5	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:571:ASP:OD1	2:L:573:VAL:HG23	2.15	0.47
2:L:929:MET:HE1	2:L:934:VAL:HA	1.97	0.47
1:A:1186:VAL:HG23	1:A:1309:ASP:HB2	1.96	0.47
1:A:383:TYR:O	1:A:387:ILE:HG12	2.15	0.47
1:A:534:GLN:HA	1:A:610:GLU:O	2.15	0.47
1:A:940:ASN:HB3	1:A:949:GLU:OE2	2.15	0.47
1:B:1052:ASP:O	1:B:1055:THR:O	2.32	0.47
1:C:1050:TRP:HA	1:C:1050:TRP:CE3	2.50	0.47
1:C:34:VAL:HG21	2:I:2045:ALA:O	2.14	0.47
1:C:46:GLU:HB3	1:C:80:CYS:HA	1.98	0.47
1:C:889:VAL:O	1:C:893:GLN:HG3	2.15	0.47
1:D:334:ALA:O	1:D:338:GLN:HG3	2.15	0.47
1:D:445:LEU:O	1:D:448:MET:HB2	2.15	0.47
1:F:731:ASP:HB3	1:F:735:GLY:HA3	1.96	0.47
2:G:1342:PHE:HE2	2:G:1391:VAL:HB	1.79	0.47
2:G:663:ILE:HD12	2:G:663:ILE:N	2.27	0.47
2:H:1602:LEU:HB3	2:H:1604:GLY:H	1.80	0.47
2:H:1975:GLU:O	2:H:1979:GLN:HG3	2.14	0.47
2:H:1883:MET:HB2	2:H:2001:ILE:HD12	1.96	0.47
2:H:846:THR:HG22	2:H:855:ILE:C	2.36	0.47
2:I:788:THR:CG2	2:I:1094:HIS:CE1	2.98	0.47
2:I:204:ILE:HG21	2:I:312:VAL:HG21	1.97	0.47
2:I:314:LEU:HG	2:I:318:ILE:CD1	2.45	0.47
2:I:717:LYS:HD2	4:I:2101:FMN:O2	2.16	0.47
2:J:1655:HIS:HE1	2:J:1657:GLY:O	1.98	0.47
2:K:48:LEU:HD13	2:K:101:VAL:HG11	1.95	0.47
2:K:1061:VAL:HG11	2:K:1066:ILE:HD11	1.97	0.47
2:K:785:SER:CB	2:K:1094:HIS:CD2	2.97	0.47
2:K:749:GLY:HA3	4:K:2101:FMN:HM81	1.97	0.47
2:K:460:ILE:CD1	2:K:487:ILE:HD11	2.44	0.47
2:L:1265:TYR:HE1	2:L:1267:PRO:HG3	1.73	0.47
2:L:1351:VAL:HG23	2:L:1584:SER:HA	1.97	0.47
2:L:1472:TRP:CE2	2:L:1540:VAL:HG22	2.50	0.47
2:L:1656:VAL:HG22	2:L:1656:VAL:O	2.15	0.47
2:L:1678:VAL:O	2:L:1679:LEU:HD23	2.15	0.47
2:L:1764:MET:HG3	2:L:1781:PHE:HE1	1.79	0.47
2:L:291:VAL:O	2:L:295:ILE:HB	2.14	0.47
2:L:594:MET:HB3	2:L:808:ASP:O	2.14	0.47
2:L:613:VAL:N	2:L:614:PRO:HD3	2.30	0.47
2:L:980:LEU:HD22	2:L:986:LEU:HD21	1.97	0.47
1:A:1011:ARG:C	1:A:1011:ARG:HD2	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1142:LEU:HD12	1:A:1142:LEU:N	2.30	0.46
1:A:536:SER:HB3	1:A:540:LYS:HB3	1.97	0.46
1:A:537:ASN:HB2	1:A:608:LYS:HB2	1.96	0.46
1:B:1078:ILE:HG23	1:B:1352:MET:CE	2.45	0.46
1:B:574:ILE:H	1:B:574:ILE:HG12	1.60	0.46
1:C:1698:ASN:HA	1:C:1699:PRO:HD3	1.83	0.46
1:C:484:PRO:HA	1:C:485:PRO:HD3	1.80	0.46
1:D:1249:ILE:H	1:D:1249:ILE:HG13	1.32	0.46
1:D:1335:ARG:HH11	1:D:1339:GLU:HG2	1.79	0.46
1:D:358:PHE:CD2	1:D:358:PHE:C	2.89	0.46
1:E:1651:TYR:CE2	1:E:1655:CYS:SG	3.08	0.46
1:E:29:ILE:HG13	2:K:1920:TYR:O	2.15	0.46
1:E:553:ARG:NH2	1:E:567:ASN:HD21	2.13	0.46
1:E:631:LYS:O	1:E:635:ILE:HG22	2.15	0.46
1:E:846:TRP:HZ2	1:E:856:ASN:O	1.98	0.46
1:F:1207:TYR:CE2	1:F:1682:LYS:HD2	2.50	0.46
1:A:552:ILE:CD1	1:F:552:ILE:HG12	2.45	0.46
2:G:912:LYS:HB3	2:G:1030:PHE:HA	1.96	0.46
2:G:1171:TRP:CH2	2:G:1236:LEU:HB2	2.49	0.46
2:G:1305:LEU:HD23	2:G:1366:ILE:HD11	1.97	0.46
2:G:1325:VAL:HG13	2:G:1330:ASN:O	2.15	0.46
2:G:1887:ASN:OD1	2:G:1889:SER:HB2	2.14	0.46
2:G:2063:GLY:O	2:G:2065:PRO:HD3	2.16	0.46
2:G:521:VAL:CG1	2:G:549:ASN:HB2	2.45	0.46
2:G:529:ASN:HD22	2:G:552:VAL:CG2	2.29	0.46
2:G:608:MET:HA	4:G:2101:FMN:C5A	2.45	0.46
2:G:937:ARG:HG3	2:G:941:LEU:HD12	1.96	0.46
2:H:1009:ASN:HB2	2:H:1012:ASP:OD2	2.15	0.46
2:H:1048:TRP:NE1	2:H:1049:GLN:HG2	2.29	0.46
2:H:1061:VAL:HG11	2:H:1066:ILE:HD11	1.96	0.46
2:H:1375:HIS:CE1	2:H:1610:MET:SD	3.03	0.46
1:B:21:GLN:O	2:H:2006:HIS:HD2	1.98	0.46
2:H:381:SER:OG	2:H:392:THR:HG23	2.15	0.46
2:H:57:PRO:HB2	2:H:65:GLN:HE22	1.79	0.46
2:I:1026:LYS:HG2	2:I:1027:PRO:HD2	1.98	0.46
2:I:1722:ALA:HB1	2:I:1812:LEU:HD21	1.97	0.46
2:I:622:MET:O	2:I:656:ARG:NH1	2.48	0.46
2:J:1279:GLU:CD	2:J:1279:GLU:H	2.18	0.46
2:J:1443:GLU:HA	2:J:1443:GLU:OE1	2.15	0.46
2:J:196:PHE:CD2	2:J:196:PHE:N	2.84	0.46
2:J:357:THR:HG22	2:J:359:SER:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:57:PRO:HB2	2:J:65:GLN:HE22	1.80	0.46
2:K:1074:LYS:HG3	2:K:1075:TYR:CD1	2.49	0.46
2:K:1335:PHE:CZ	2:K:1629:ILE:HD13	2.50	0.46
2:K:1315:ILE:HA	2:K:1393:ASP:O	2.14	0.46
1:E:943:VAL:CG2	2:K:1539:PRO:HG3	2.45	0.46
2:K:1293:TRP:HE1	2:K:1586:ASP:HA	1.80	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:HD11	1.96	0.46
1:E:13:LEU:HD11	2:K:2058:VAL:HG21	1.96	0.46
2:K:391:VAL:HG12	2:K:398:LEU:HD21	1.97	0.46
2:K:746:GLY:O	2:K:843:TRP:NE1	2.48	0.46
2:L:1336:VAL:O	2:L:1336:VAL:HG12	2.15	0.46
2:L:1380:TYR:HD2	2:L:1429:VAL:HG22	1.80	0.46
2:L:1655:HIS:HE1	2:L:1657:GLY:O	1.98	0.46
2:L:1873:ARG:NH1	2:L:2002:ASP:CB	2.78	0.46
2:L:528:THR:HA	2:L:531:ASN:ND2	2.30	0.46
2:L:613:VAL:H	2:L:614:PRO:HD3	1.80	0.46
2:L:718:PRO:HG3	2:L:727:VAL:CG2	2.45	0.46
2:L:796:TRP:HH2	2:L:805:MET:HE1	1.78	0.46
1:A:1685:ALA:HB1	1:A:1686:PRO:CD	2.45	0.46
1:A:50:SER:HB2	1:A:52:THR:HG23	1.97	0.46
1:A:661:GLY:O	1:A:667:ALA:HB2	2.15	0.46
1:B:1501:ALA:O	1:B:1504:ARG:HB2	2.14	0.46
1:B:28:TRP:HE1	1:B:32:GLN:NE2	2.13	0.46
1:B:382:ILE:HG13	1:B:382:ILE:H	1.59	0.46
1:B:88:ILE:HG21	2:H:1821:MET:HE1	1.97	0.46
1:D:1099:GLU:HG2	1:D:1149:LEU:HD21	1.96	0.46
1:B:1149:LEU:CB	1:D:1149:LEU:HB2	2.44	0.46
1:D:844:ILE:HD12	1:D:844:ILE:N	2.31	0.46
1:D:889:VAL:O	1:D:893:GLN:HG3	2.15	0.46
1:B:347:LEU:HD12	1:E:340:LEU:HD12	1.96	0.46
1:E:519:PHE:O	1:E:523:VAL:HG23	2.14	0.46
1:E:673:LEU:HD21	1:E:884:MET:HE3	1.97	0.46
1:F:914:LEU:O	1:F:917:LYS:HB3	2.15	0.46
2:G:1050:SER:HA	2:G:1064:THR:HG21	1.97	0.46
2:G:1377:SER:HB3	2:G:1432:GLN:HB2	1.96	0.46
2:G:1420:LYS:HG2	2:G:1425:PRO:CA	2.43	0.46
2:G:357:THR:HG22	2:G:359:SER:H	1.80	0.46
2:G:670:MET:CE	2:G:674:ILE:HD11	2.45	0.46
2:G:779:GLY:HA3	2:G:811:MET:CE	2.44	0.46
2:H:709:LEU:N	2:H:709:LEU:HD23	2.26	0.46
2:H:718:PRO:HG3	2:H:727:VAL:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1370:LEU:CA	2:I:1435:TYR:HE2	2.27	0.46
2:I:2013:GLY:O	2:I:2016:PRO:HD2	2.15	0.46
2:I:207:LEU:HD22	2:I:309:LYS:HG3	1.95	0.46
2:I:173:PHE:CE2	2:I:516:PHE:HB2	2.50	0.46
2:I:746:GLY:O	2:I:843:TRP:NE1	2.47	0.46
2:I:937:ARG:HG3	2:I:941:LEU:HD12	1.96	0.46
2:J:1886:VAL:HG22	2:J:1995:THR:HG22	1.97	0.46
2:J:357:THR:O	2:J:361:VAL:HG23	2.15	0.46
2:J:245:SER:HA	2:J:436:THR:OG1	2.15	0.46
2:J:608:MET:HA	4:J:2101:FMN:N5	2.30	0.46
2:J:686:PRO:HB3	2:J:1187:PHE:CE1	2.51	0.46
2:J:708:THR:HB	2:J:709:LEU:HD23	1.97	0.46
2:J:821:GLU:CD	2:J:1083:ILE:HG13	2.35	0.46
2:K:1352:VAL:HG11	2:K:1395:LEU:HD12	1.97	0.46
2:K:1359:LYS:O	2:K:1362:PHE:HD1	1.98	0.46
2:K:1656:VAL:O	2:K:1656:VAL:HG22	2.15	0.46
2:K:1749:PHE:CD2	2:K:1758:ARG:HB3	2.50	0.46
2:K:221:TYR:CD2	2:K:225:LEU:HD22	2.50	0.46
2:K:462:ALA:HB3	2:K:483:ASP:HA	1.97	0.46
2:L:1044:LYS:HE2	3:L:2102:NAP:H4B	1.97	0.46
2:L:1622:THR:HG23	2:L:1627:ASN:OD1	2.16	0.46
2:L:1835:GLY:HA3	2:L:1839:GLY:C	2.35	0.46
2:L:2053:GLU:HA	2:L:2056:GLU:OE1	2.14	0.46
2:L:2064:SER:OG	2:L:2067:ILE:HB	2.16	0.46
2:L:465:LEU:HB2	2:L:479:ARG:CG	2.46	0.46
2:L:502:GLU:O	2:L:506:VAL:HG23	2.14	0.46
2:L:907:ASN:HD21	2:L:917:ARG:HE	1.62	0.46
1:A:1457:GLU:HG3	1:A:1457:GLU:H	1.47	0.46
1:A:564:LEU:O	1:A:567:ASN:HB2	2.15	0.46
1:A:687:PHE:C	1:A:687:PHE:CD2	2.88	0.46
1:A:782:LYS:NZ	1:A:786:LYS:HD2	2.31	0.46
1:A:859:VAL:O	1:A:859:VAL:HG12	2.14	0.46
1:B:1005:TRP:HE1	1:B:1561:LEU:CD2	2.25	0.46
1:B:1079:ARG:HG2	1:B:1079:ARG:NH1	2.11	0.46
1:B:673:LEU:HD21	1:B:884:MET:CE	2.44	0.46
1:C:1055:THR:OG1	1:C:1057:GLU:HG2	2.16	0.46
1:C:1553:VAL:HG22	1:C:1604:TYR:O	2.14	0.46
1:C:1512:LEU:HD21	1:C:1641:TYR:CE2	2.50	0.46
1:D:1393:VAL:N	1:D:1394:PRO:HD3	2.30	0.46
1:D:1457:GLU:HG3	1:D:1457:GLU:H	1.51	0.46
1:D:427:ARG:NH1	1:D:492:ILE:HG12	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1577:CYS:HB3	1:E:1620:PHE:CD2	2.50	0.46
1:E:498:THR:HG22	1:E:508:TYR:CD1	2.51	0.46
1:E:740:LEU:HD12	1:E:781:ILE:HD13	1.98	0.46
1:E:746:PHE:CD1	1:E:800:PRO:HG3	2.50	0.46
1:F:1083:PRO:HD2	1:F:1084:GLU:OE2	2.16	0.46
1:F:940:ASN:HB3	1:F:949:GLU:OE2	2.16	0.46
2:G:1722:ALA:HB1	2:G:1812:LEU:HD21	1.97	0.46
2:G:291:VAL:O	2:G:295:ILE:HB	2.15	0.46
2:G:585:VAL:HG12	2:G:585:VAL:O	2.15	0.46
2:G:705:TYR:HA	2:G:709:LEU:HD21	1.97	0.46
2:H:260:HIS:CE1	2:H:543:GLY:HA2	2.50	0.46
2:H:372:LEU:CD1	2:H:397:SER:HB2	2.46	0.46
2:H:529:ASN:HD22	2:H:552:VAL:CG2	2.28	0.46
1:B:960:ARG:HH11	2:H:968:GLU:HB3	1.80	0.46
2:I:1259:LEU:HD11	2:I:1285:ILE:HG12	1.97	0.46
2:I:1804:GLN:HB3	2:I:1861:PHE:HE1	1.81	0.46
2:I:1933:LEU:HB3	2:I:1987:VAL:CG1	2.46	0.46
2:I:617:PHE:CE1	2:I:822:ALA:HB2	2.50	0.46
2:J:48:LEU:HD11	2:J:101:VAL:HG11	1.96	0.46
2:J:1179:GLU:N	2:J:1179:GLU:OE1	2.45	0.46
2:J:1464:LEU:HD13	2:J:1468:ARG:HG3	1.97	0.46
2:J:1745:LEU:HD12	2:J:1746:THR:N	2.30	0.46
2:J:1977:ARG:HD3	2:J:1978:LYS:HG3	1.97	0.46
2:J:785:SER:HB3	2:J:1090:ILE:HG23	1.98	0.46
2:K:1009:ASN:HB2	2:K:1012:ASP:OD2	2.16	0.46
2:K:1181:PHE:HE1	2:K:1191:PRO:HD2	1.74	0.46
2:K:1561:ILE:HB	2:K:1655:HIS:HB3	1.96	0.46
2:K:1884:CYS:HB3	2:K:1936:LEU:CD1	2.42	0.46
2:K:827:GLN:O	2:K:830:GLN:HB3	2.16	0.46
2:L:1104:ASP:N	2:L:1104:ASP:OD1	2.48	0.46
2:L:1499:LYS:CG	2:L:1500:ASN:H	2.26	0.46
2:L:1709:TYR:CE2	2:L:1716:LYS:HG2	2.50	0.46
2:L:2005:PHE:CA	2:L:2010:LEU:HD11	2.46	0.46
2:L:48:LEU:HD13	2:L:101:VAL:HG11	1.95	0.46
2:L:601:PRO:HB2	2:L:626:TYR:CE2	2.50	0.46
2:L:756:ASP:CA	2:L:843:TRP:HH2	2.28	0.46
1:B:1017:TYR:N	1:B:1017:TYR:CD1	2.81	0.46
1:B:1055:THR:OG1	1:B:1057:GLU:HG2	2.15	0.46
1:B:1075:HIS:HB3	1:B:1166:THR:HB	1.97	0.46
1:B:1393:VAL:N	1:B:1394:PRO:CD	2.79	0.46
1:B:1592:ALA:O	1:B:1593:ASP:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:852:LEU:O	1:B:852:LEU:HD23	2.16	0.46
1:B:869:ARG:O	1:B:903:GLY:HA3	2.15	0.46
1:C:1131:GLU:HG2	1:C:1138:TYR:CE2	2.50	0.46
1:C:407:ARG:NH1	1:C:1606:VAL:HG23	2.30	0.46
1:D:1014:MET:O	1:D:1590:ARG:NH2	2.42	0.46
1:D:1052:ASP:O	1:D:1055:THR:O	2.34	0.46
1:D:1703:VAL:HG22	1:D:1712:LYS:C	2.35	0.46
1:D:383:TYR:O	1:D:387:ILE:HG12	2.15	0.46
1:E:1672:GLY:O	1:E:1676:ASN:N	2.48	0.46
1:E:441:ASN:HB2	1:E:444:LEU:H	1.81	0.46
1:F:1065:LYS:O	1:F:1069:GLU:HB2	2.16	0.46
1:F:1108:PRO:HA	1:F:1140:VAL:O	2.15	0.46
1:F:1172:ARG:HG3	1:F:1172:ARG:HH11	1.80	0.46
1:F:1371:MET:O	1:F:1661:ARG:NH1	2.48	0.46
1:F:1505:GLY:O	1:F:1509:THR:HG23	2.16	0.46
1:F:1514:ILE:H	1:F:1514:ILE:HG13	1.35	0.46
1:F:49:PRO:HG2	2:L:1810:LEU:HD21	1.97	0.46
2:G:44:GLN:HG3	2:G:101:VAL:CG2	2.46	0.46
2:G:1346:MET:CE	2:G:1617:ARG:NH2	2.79	0.46
2:H:1370:LEU:CD1	2:H:1373:LEU:HD13	2.44	0.46
2:H:1472:TRP:CE2	2:H:1540:VAL:HG22	2.51	0.46
2:H:317:TRP:O	2:H:321:ARG:HG2	2.15	0.46
2:H:708:THR:HB	2:H:709:LEU:HD23	1.96	0.46
2:H:871:ARG:HB2	2:H:909:ASP:HB2	1.97	0.46
2:I:1009:ASN:HB2	2:I:1012:ASP:OD2	2.16	0.46
2:I:1519:THR:O	2:I:1520:LYS:HB2	2.16	0.46
2:I:1932:ASP:O	2:I:1936:LEU:HD23	2.14	0.46
2:I:2005:PHE:CA	2:I:2010:LEU:HD11	2.45	0.46
2:I:784:GLY:HA3	2:I:786:GLU:OE2	2.15	0.46
2:J:129:ILE:HG21	2:J:132:LYS:HD2	1.97	0.46
2:J:1517:LEU:HD12	2:J:1521:GLU:HB2	1.96	0.46
2:J:1538:ASN:HB3	2:J:1541:ILE:CG2	2.44	0.46
2:J:167:VAL:C	2:J:168:LYS:HD2	2.36	0.46
1:D:42:GLU:H	2:J:1689:VAL:HB	1.79	0.46
2:J:2008:THR:HG22	2:J:2011:ARG:HE	1.79	0.46
2:J:388:ASN:HD22	2:J:389:PHE:N	2.13	0.46
2:J:907:ASN:OD1	2:J:913:VAL:HG12	2.16	0.46
2:K:1002:GLU:C	2:K:1004:SER:H	2.18	0.46
2:K:1883:MET:HB2	2:K:2001:ILE:HD12	1.96	0.46
2:K:211:LEU:HD13	2:K:313:GLU:HG3	1.98	0.46
2:K:251:PRO:CG	2:K:316:PHE:HA	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:26:LEU:HD23	2:K:49:LYS:HG3	1.98	0.46
2:K:617:PHE:CD1	2:K:822:ALA:HA	2.50	0.46
2:K:776:LEU:HG	2:K:807:PHE:CD2	2.51	0.46
2:K:907:ASN:HA	2:K:913:VAL:HG13	1.98	0.46
2:L:1053:ILE:CD1	2:L:1061:VAL:HG13	2.45	0.46
2:L:788:THR:CG2	2:L:1094:HIS:CE1	2.99	0.46
2:L:580:LEU:HG	2:L:1098:LEU:HD23	1.97	0.46
2:L:1331:THR:O	2:L:1331:THR:HG22	2.15	0.46
2:L:356:LEU:HA	2:L:356:LEU:HD22	1.77	0.46
2:L:608:MET:HB3	2:L:608:MET:HE2	1.50	0.46
2:L:779:GLY:HA3	2:L:811:MET:CE	2.46	0.46
1:B:718:SER:HA	1:E:378:GLU:OE1	2.16	0.46
1:C:1484:GLU:O	1:C:1487:THR:HB	2.16	0.46
1:C:457:THR:HG22	1:C:464:GLN:HA	1.98	0.46
1:D:1102:ILE:HD11	1:D:1148:LEU:HG	1.96	0.46
1:D:15:VAL:HG11	2:J:2022:LEU:CD2	2.44	0.46
1:D:1584:GLY:HA2	1:D:1617:ILE:CD1	2.45	0.46
1:D:1702:ARG:NH1	1:D:1702:ARG:HG2	2.15	0.46
1:D:21:GLN:HB3	1:D:21:GLN:HE21	1.58	0.46
1:D:441:ASN:HB2	1:D:444:LEU:H	1.80	0.46
1:D:914:LEU:HD11	1:D:918:LEU:CD1	2.45	0.46
1:E:1102:ILE:HD11	1:E:1148:LEU:HG	1.98	0.46
1:E:1213:VAL:CG1	1:E:1217:GLU:HB2	2.46	0.46
1:E:1280:CYS:HB2	1:E:1626:GLY:HA2	1.98	0.46
1:E:1556:ILE:CD1	1:E:1587:PRO:HD2	2.44	0.46
1:E:1565:PRO:O	1:E:1566:LYS:C	2.52	0.46
1:E:413:MET:O	1:E:416:ASP:HB2	2.16	0.46
1:E:684:THR:CG2	1:E:686:ARG:H	2.23	0.46
1:F:555:GLN:HG2	1:F:557:ARG:NH2	2.30	0.46
2:G:1746:THR:CB	2:G:1792:THR:HG23	2.39	0.46
2:G:699:ILE:H	2:G:699:ILE:CD1	2.28	0.46
2:H:1192:LEU:HD22	2:H:1196:PHE:CE1	2.50	0.46
2:H:1402:ASN:ND2	2:H:1416:CYS:HB2	2.31	0.46
2:H:1411:LYS:HB2	2:H:1439:TYR:CD1	2.49	0.46
2:H:2053:GLU:HA	2:H:2056:GLU:OE1	2.15	0.46
2:H:270:ARG:HG3	2:H:274:GLU:CD	2.36	0.46
2:I:1106:LYS:HD3	2:I:1106:LYS:HA	1.77	0.46
2:I:1701:GLU:H	2:I:1704:MET:HE3	1.79	0.46
2:I:1891:ILE:HD12	2:I:1895:PHE:CE2	2.51	0.46
2:J:912:LYS:HB3	2:J:1030:PHE:HA	1.98	0.46
2:J:1351:VAL:CG1	2:J:1352:VAL:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:174:GLY:HA2	2:J:524:ILE:CG1	2.45	0.46
2:J:352:SER:HB2	2:J:433:LEU:HD11	1.98	0.46
2:J:875:PHE:HE2	2:J:906:LEU:HD23	1.81	0.46
2:K:1175:MET:HE1	2:K:1234:ILE:HG21	1.95	0.46
2:K:1538:ASN:HB3	2:K:1541:ILE:CG2	2.45	0.46
2:K:1871:VAL:HG21	2:K:2003:VAL:HA	1.95	0.46
2:K:867:LYS:HB2	2:K:873:VAL:HG11	1.98	0.46
2:L:1289:TYR:CB	2:L:1370:LEU:HD23	2.45	0.46
2:L:489:GLU:O	2:L:492:ARG:HG2	2.15	0.46
2:L:785:SER:HB3	2:L:1090:ILE:HG23	1.97	0.46
2:L:606:ALA:HB2	2:L:811:MET:CG	2.45	0.46
1:A:1078:ILE:HA	1:A:1162:GLY:HA2	1.97	0.46
1:A:1343:PRO:O	1:A:1531:ASP:OD2	2.34	0.46
1:A:1494:TRP:CG	1:A:1505:GLY:HA3	2.51	0.46
1:B:1296:GLN:HE21	1:D:1296:GLN:HG2	1.80	0.46
1:B:1446:GLU:HA	1:B:1449:ALA:HB3	1.97	0.46
1:B:401:SER:O	1:B:405:TRP:CD1	2.69	0.46
1:B:472:GLN:HE21	1:B:472:GLN:HA	1.81	0.46
1:C:1031:MET:HE2	1:C:1031:MET:HB3	1.78	0.46
1:C:411:LEU:CD2	1:C:1612:ILE:HD13	2.45	0.46
1:C:987:MET:O	1:C:1490:GLY:HA3	2.15	0.46
1:D:687:PHE:CD2	1:D:687:PHE:C	2.89	0.46
1:E:1055:THR:OG1	1:E:1057:GLU:HG2	2.15	0.46
1:E:996:VAL:HG11	1:E:1578:LEU:HD11	1.96	0.46
1:A:1402:THR:HG22	1:E:1696:PHE:HB3	1.97	0.46
1:E:869:ARG:HB2	1:E:869:ARG:HE	1.62	0.46
1:E:79:LEU:HD12	1:E:88:ILE:HD13	1.98	0.46
1:E:961:ALA:HB2	1:E:1022:LEU:HD12	1.98	0.46
1:F:859:VAL:HG12	1:F:859:VAL:O	2.14	0.46
2:G:1009:ASN:HD22	2:G:1009:ASN:HA	1.53	0.46
2:G:113:PHE:N	2:G:113:PHE:CD1	2.84	0.46
2:G:1725:HIS:CD2	2:G:1854:GLU:CB	2.98	0.46
2:G:1873:ARG:NH1	2:G:2002:ASP:CB	2.77	0.46
1:A:34:VAL:HG11	2:G:2047:PRO:HD3	1.97	0.46
2:G:314:LEU:HG	2:G:318:ILE:CD1	2.44	0.46
2:G:352:SER:HB2	2:G:433:LEU:HD11	1.97	0.46
2:G:440:HIS:NE2	2:G:499:VAL:HG23	2.31	0.46
2:G:827:GLN:H	2:G:827:GLN:CD	2.18	0.46
2:H:685:VAL:HG23	2:H:1186:ARG:NH1	2.30	0.46
2:H:1555:VAL:HG12	2:H:1555:VAL:O	2.15	0.46
2:H:749:GLY:HA3	4:H:2101:FMN:HM81	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:609:THR:HA	2:H:631:ALA:HB1	1.98	0.46
2:H:617:PHE:CD1	2:H:822:ALA:HA	2.51	0.46
2:H:618:VAL:HG11	2:H:648:ILE:HD11	1.96	0.46
2:I:870:THR:HG21	2:I:1064:THR:O	2.16	0.46
2:I:1234:ILE:HG22	2:I:1242:ILE:HG22	1.96	0.46
2:I:154:TYR:CD1	2:I:561:ARG:NH2	2.84	0.46
2:I:1371:LEU:O	2:I:1590:ILE:HD11	2.15	0.46
2:I:1871:VAL:HG21	2:I:2003:VAL:HA	1.97	0.46
2:J:1208:ASN:N	2:J:1209:PRO:HD3	2.31	0.46
2:J:1742:PRO:O	2:J:1799:LEU:HD13	2.15	0.46
2:J:2053:GLU:HA	2:J:2056:GLU:OE1	2.16	0.46
2:J:719:GLY:O	2:J:755:GLU:HG3	2.16	0.46
2:J:797:SER:O	2:J:802:TYR:HB2	2.16	0.46
2:J:827:GLN:H	2:J:827:GLN:CD	2.18	0.46
2:K:1456:LEU:HD11	2:K:1543:TYR:CE2	2.49	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:CD1	2.46	0.46
2:K:534:GLY:O	2:K:571:ASP:HA	2.15	0.46
2:L:1002:GLU:C	2:L:1004:SER:H	2.18	0.46
2:L:2009:PHE:C	2:L:2009:PHE:CD2	2.88	0.46
1:A:1154:LEU:HA	1:A:1154:LEU:HD23	1.69	0.46
1:A:1592:ALA:O	1:A:1593:ASP:C	2.54	0.46
1:A:905:LEU:HD23	1:A:908:ILE:HD12	1.97	0.46
1:B:1313:GLU:H	1:B:1313:GLU:HG2	1.55	0.46
1:B:1371:MET:O	1:B:1661:ARG:NH1	2.47	0.46
1:B:46:GLU:HB3	1:B:80:CYS:HA	1.98	0.46
1:B:967:PHE:HB3	1:B:968:PRO:CD	2.46	0.46
1:C:1037:ASN:CG	1:C:1674:ILE:HG23	2.36	0.46
1:C:440:SER:HB3	1:C:481:LEU:CD2	2.42	0.46
1:D:1208:GLU:OE2	1:D:1661:ARG:NH2	2.47	0.46
1:D:1484:GLU:O	1:D:1487:THR:HB	2.16	0.46
1:D:1553:VAL:HG22	1:D:1604:TYR:O	2.15	0.46
1:D:492:ILE:H	1:D:492:ILE:HG13	1.45	0.46
1:E:1142:LEU:HD12	1:E:1142:LEU:N	2.31	0.46
1:E:1546:GLY:O	1:E:1547:ARG:C	2.54	0.46
1:E:414:TYR:C	1:E:414:TYR:CD2	2.88	0.46
1:E:687:PHE:CD2	1:E:687:PHE:C	2.89	0.46
1:B:755:GLU:HG2	1:E:831:GLU:HG2	1.98	0.46
1:F:1177:GLU:O	1:F:1180:ILE:HB	2.15	0.46
1:F:1313:GLU:HG2	1:F:1313:GLU:H	1.47	0.46
1:F:88:ILE:HG21	2:L:1821:MET:HE1	1.97	0.46
2:G:1236:LEU:HD12	2:G:1241:GLU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1232:VAL:HA	2:G:1245:THR:O	2.15	0.46
2:G:609:THR:HA	2:G:631:ALA:HB1	1.98	0.46
2:G:718:PRO:HG3	2:G:727:VAL:CG2	2.46	0.46
2:H:1179:GLU:OE1	2:H:1179:GLU:N	2.49	0.46
2:H:1251:THR:HG22	2:H:1292:VAL:HG13	1.97	0.46
2:H:208:LEU:HD12	2:H:227:ILE:CD1	2.43	0.46
2:H:353:ILE:O	2:H:353:ILE:HG22	2.16	0.46
2:I:1655:HIS:HE1	2:I:1657:GLY:O	1.99	0.46
2:I:1920:TYR:HD2	2:I:1927:TYR:HE2	1.62	0.46
1:C:12:THR:CG2	2:I:2066:LYS:HD3	2.45	0.46
2:I:391:VAL:HG12	2:I:398:LEU:HD21	1.96	0.46
2:I:616:ASP:OD2	2:I:823:HIS:NE2	2.48	0.46
2:J:1181:PHE:HE1	2:J:1191:PRO:HD2	1.79	0.46
2:J:1231:THR:CG2	2:J:1595:VAL:HG11	2.46	0.46
2:J:1491:ARG:O	2:J:1492:LEU:HD23	2.15	0.46
2:J:1635:TYR:CE2	2:J:1637:VAL:HG23	2.51	0.46
2:J:250:PHE:O	2:J:315:LEU:HD23	2.16	0.46
2:J:747:ARG:NH1	2:J:780:SER:O	2.48	0.46
2:K:1017:LEU:HD21	2:K:1032:PRO:HB2	1.97	0.46
2:K:1325:VAL:HG13	2:K:1330:ASN:O	2.15	0.46
2:K:1587:TYR:O	2:K:1588:ASN:C	2.53	0.46
2:K:1602:LEU:HB3	2:K:1604:GLY:H	1.81	0.46
1:E:8:GLU:HG2	2:K:2027:LYS:HD3	1.97	0.46
2:K:685:VAL:HA	2:K:686:PRO:HD3	1.63	0.46
2:K:690:LEU:HB2	2:K:711:ILE:HG21	1.97	0.46
2:L:1106:LYS:HA	2:L:1106:LYS:HD3	1.76	0.46
2:L:1299:VAL:HG13	2:L:1301:PHE:CE1	2.51	0.46
2:L:1404:VAL:HA	2:L:1412:MET:O	2.15	0.46
2:L:1914:LEU:O	2:L:1931:GLY:HA3	2.16	0.46
2:L:1966:ARG:HG3	2:L:1967:ALA:N	2.30	0.46
2:L:490:LEU:HD23	2:L:493:MET:SD	2.56	0.46
2:L:609:THR:HA	2:L:631:ALA:HB1	1.98	0.46
2:L:737:PHE:O	2:L:773:ASN:HB3	2.15	0.46
1:A:24:MET:HB3	2:G:2043:VAL:HG12	1.97	0.46
1:A:902:ASN:C	1:A:904:GLY:H	2.19	0.46
1:B:1078:ILE:HA	1:B:1162:GLY:HA2	1.98	0.46
1:B:17:LEU:HD23	2:H:2043:VAL:CG2	2.45	0.46
1:B:626:TRP:CZ3	1:B:898:PHE:HB2	2.51	0.46
1:C:1157:ASP:O	1:C:1327:ALA:HB3	2.16	0.46
1:C:1218:VAL:O	1:C:1271:GLY:HA3	2.16	0.46
1:C:422:LEU:HD13	1:C:429:ILE:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:88:ILE:HG21	2:I:1821:MET:HE2	1.97	0.46
1:D:1172:ARG:HH11	1:D:1172:ARG:HG3	1.80	0.46
1:D:984:LEU:HD21	1:D:1510:TRP:O	2.16	0.46
1:D:1579:GLN:O	1:D:1583:THR:HG23	2.16	0.46
1:D:31:THR:HG23	2:J:2040:ILE:CG2	2.42	0.46
1:D:519:PHE:O	1:D:523:VAL:HG23	2.16	0.46
1:D:849:GLY:HA3	1:D:873:GLN:HG3	1.97	0.46
1:E:1446:GLU:HA	1:E:1449:ALA:HB3	1.97	0.46
1:E:1522:PHE:HB2	1:E:1557:PHE:CD1	2.51	0.46
1:E:1584:GLY:HA2	1:E:1617:ILE:HD12	1.98	0.46
1:E:661:GLY:O	1:E:667:ALA:HB2	2.16	0.46
1:F:879:ASN:HB3	1:F:901:LEU:HD13	1.98	0.46
2:G:1203:TYR:O	2:G:1219:VAL:HA	2.16	0.46
2:G:2052:LYS:HG2	2:G:2052:LYS:H	1.42	0.46
2:G:2053:GLU:HA	2:G:2056:GLU:OE1	2.16	0.46
2:G:511:THR:C	2:G:512:HIS:CD2	2.89	0.46
2:G:534:GLY:O	2:G:571:ASP:HA	2.15	0.46
2:H:1019:LEU:HA	2:H:1022:ARG:HD2	1.96	0.46
2:H:1315:ILE:HA	2:H:1393:ASP:O	2.16	0.46
2:H:1643:VAL:CG1	2:H:1649:ILE:HD11	2.46	0.46
2:H:358:ARG:HB2	2:H:389:PHE:CE2	2.51	0.46
2:H:674:ILE:HD13	2:H:705:TYR:HE2	1.75	0.46
2:I:1157:VAL:HG22	2:I:1198:PRO:HD2	1.98	0.46
2:I:1734:ILE:O	2:I:1738:VAL:HG23	2.15	0.46
2:I:460:ILE:CD1	2:I:487:ILE:HD11	2.45	0.46
2:I:26:LEU:HD23	2:I:49:LYS:HG3	1.97	0.46
2:I:662:LEU:HD22	2:I:673:GLN:OE1	2.16	0.46
2:J:1359:LYS:O	2:J:1362:PHE:HD1	1.98	0.46
2:J:1483:LEU:H	2:J:1483:LEU:HG	1.11	0.46
2:J:1820:ASP:O	2:J:1823:SER:HB3	2.15	0.46
2:J:1985:GLN:C	2:J:1987:VAL:N	2.67	0.46
1:E:71:ALA:HB3	2:J:371:HIS:HB2	1.98	0.46
2:J:751:HIS:HB2	3:J:2102:NAP:N7N	2.30	0.46
2:K:1350:ILE:HD13	2:K:1610:MET:SD	2.56	0.46
2:K:1807:GLN:HB3	2:K:1860:VAL:CG1	2.46	0.46
2:K:1903:VAL:HG11	2:K:1943:LEU:HD21	1.98	0.46
2:K:596:ARG:HD3	2:K:1119:ARG:HG3	1.98	0.46
2:L:1180:VAL:CG1	2:L:1188:GLN:H	2.28	0.46
2:L:1553:GLN:HB3	2:L:1554:PRO:HD2	1.97	0.46
2:L:1977:ARG:CD	2:L:1978:LYS:HG3	2.46	0.46
2:L:865:ILE:HG22	2:L:867:LYS:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:894:GLU:CD	2:L:897:LYS:HD3	2.35	0.46
1:A:1160:VAL:HG11	1:A:1337:PRO:HB3	1.97	0.46
1:A:457:THR:HG22	1:A:464:GLN:HA	1.97	0.46
1:A:498:THR:HG21	1:A:858:LEU:O	2.16	0.46
1:B:1107:GLU:HA	1:B:1108:PRO:HD3	1.71	0.46
1:B:1131:GLU:HG2	1:B:1138:TYR:CE2	2.50	0.46
1:B:1330:GLU:HG2	1:B:1333:ARG:HH11	1.80	0.46
1:B:1553:VAL:HG22	1:B:1604:TYR:O	2.16	0.46
1:C:450:TYR:CD2	1:C:450:TYR:C	2.89	0.46
1:C:502:ALA:O	1:C:929:ARG:HD3	2.15	0.46
1:D:996:VAL:HG11	1:D:1578:LEU:HD11	1.98	0.46
1:D:1674:ILE:HG22	1:D:1675:ASN:OD1	2.16	0.46
1:E:1078:ILE:HA	1:E:1162:GLY:HA2	1.98	0.46
1:E:1179:ILE:O	1:E:1183:VAL:HG23	2.15	0.46
1:E:1187:THR:OG1	1:E:1258:MET:HG3	2.16	0.46
1:E:401:SER:O	1:E:405:TRP:CD1	2.69	0.46
1:F:1142:LEU:HD12	1:F:1142:LEU:H	1.79	0.46
1:F:1175:VAL:HA	1:F:1176:PRO:HD3	1.78	0.46
1:F:1213:VAL:CG1	1:F:1217:GLU:HB2	2.46	0.46
1:F:746:PHE:CG	3:F:1901:NAP:H4D	2.51	0.46
2:G:1622:THR:HG23	2:G:1627:ASN:OD1	2.16	0.46
2:G:726:GLN:O	2:G:730:ILE:HG12	2.15	0.46
2:H:1031:VAL:HA	2:H:1032:PRO:HD3	1.69	0.46
2:H:1047:LEU:CD1	2:H:1047:LEU:H	2.28	0.46
2:H:1104:ASP:N	2:H:1104:ASP:OD1	2.49	0.46
2:H:1204:VAL:HG22	2:H:1219:VAL:HG22	1.98	0.46
2:H:655:GLY:HA3	2:H:1272:ALA:HB2	1.98	0.46
2:H:1311:GLY:HA3	2:H:1397:THR:HB	1.98	0.46
2:H:1634:SER:HB3	2:H:1684:GLU:HB2	1.98	0.46
2:H:460:ILE:CD1	2:H:487:ILE:HD11	2.46	0.46
2:I:1203:TYR:O	2:I:1219:VAL:HA	2.15	0.46
2:I:1555:VAL:O	2:I:1555:VAL:HG12	2.14	0.46
2:I:1802:ALA:CB	2:I:1804:GLN:HE22	2.27	0.46
2:I:1807:GLN:HB3	2:I:1860:VAL:CG1	2.46	0.46
2:I:382:LEU:HG	2:I:390:VAL:HB	1.98	0.46
2:I:411:PRO:HD2	2:I:414:LEU:CD1	2.45	0.46
2:J:1104:ASP:N	2:J:1104:ASP:OD1	2.48	0.46
2:J:1305:LEU:CD1	2:J:1305:LEU:H	2.26	0.46
2:J:1344:ALA:N	2:J:1389:LEU:O	2.41	0.46
2:J:1402:ASN:ND2	2:J:1416:CYS:HB2	2.31	0.46
2:J:1587:TYR:O	2:J:1588:ASN:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:208:LEU:HD12	2:J:227:ILE:CD1	2.40	0.46
2:J:52:PHE:HB2	2:J:82:PHE:CE2	2.50	0.46
2:J:521:VAL:CG1	2:J:549:ASN:HB2	2.45	0.46
2:J:600:VAL:HG13	2:J:601:PRO:N	2.30	0.46
2:J:606:ALA:HB2	2:J:811:MET:CG	2.46	0.46
2:K:1741:ASN:ND2	2:K:1798:GLY:HA3	2.31	0.46
2:K:2009:PHE:CD2	2:K:2009:PHE:C	2.89	0.46
2:L:1175:MET:HE1	2:L:1234:ILE:HG21	1.97	0.46
2:L:1309:PHE:N	2:L:1309:PHE:CD1	2.84	0.46
2:L:1342:PHE:HE2	2:L:1391:VAL:HB	1.81	0.46
2:L:1644:LEU:HB3	2:L:1645:PRO:CD	2.45	0.46
2:L:1555:VAL:HG21	2:L:1824:LYS:HA	1.97	0.46
2:L:1948:MET:HG2	2:L:1993:PHE:CZ	2.51	0.46
2:L:726:GLN:O	2:L:730:ILE:HG12	2.16	0.46
2:L:827:GLN:H	2:L:827:GLN:CD	2.19	0.46
2:L:950:TRP:CE2	2:L:956:LYS:HG3	2.51	0.46
1:A:1184:ASP:OD1	1:A:1185:PRO:HD2	2.16	0.46
1:A:1446:GLU:HA	1:A:1449:ALA:HB3	1.98	0.46
1:A:1514:ILE:O	1:A:1547:ARG:NH1	2.49	0.46
1:A:540:LYS:HG3	1:A:608:LYS:N	2.31	0.46
1:A:544:ASP:O	1:A:548:VAL:HG23	2.15	0.46
1:B:662:ALA:HA	1:B:694:TYR:CZ	2.50	0.46
1:C:1565:PRO:HG3	1:C:1572:TRP:CH2	2.50	0.46
1:C:1691:ILE:HG22	1:C:1695:VAL:HG23	1.97	0.46
1:C:673:LEU:HD21	1:C:884:MET:CE	2.46	0.46
1:C:687:PHE:HD2	1:C:687:PHE:C	2.19	0.46
1:C:965:TYR:CE1	1:C:1669:PHE:CD1	3.04	0.46
1:D:746:PHE:CD2	3:D:1901:NAP:H4D	2.51	0.46
1:D:852:LEU:O	1:D:852:LEU:HD23	2.16	0.46
1:E:498:THR:HG22	1:E:508:TYR:HD1	1.81	0.46
1:F:1078:ILE:HA	1:F:1162:GLY:HA2	1.97	0.46
1:F:661:GLY:O	1:F:667:ALA:HB2	2.15	0.46
1:F:916:THR:HA	1:F:919:ARG:HB2	1.98	0.46
2:G:1192:LEU:HD22	2:G:1196:PHE:CE1	2.51	0.46
2:G:1204:VAL:HG22	2:G:1219:VAL:HG22	1.98	0.46
2:G:1473:PHE:HE1	2:G:1513:VAL:HG21	1.81	0.46
2:G:1587:TYR:O	2:G:1588:ASN:C	2.55	0.46
2:G:1194:ARG:NH2	2:G:1601:ASN:CG	2.70	0.46
2:G:1738:VAL:HA	2:G:1800:LEU:HD13	1.97	0.46
2:G:520:GLY:C	2:G:522:SER:H	2.19	0.46
2:G:792:LEU:HD23	2:G:1094:HIS:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1175:MET:O	2:H:1192:LEU:HD12	2.16	0.46
2:H:1142:ILE:HG13	2:H:1209:PRO:HG2	1.97	0.46
2:H:152:LYS:HA	2:H:153:PRO:HD3	1.81	0.46
2:H:545:ILE:HG22	2:H:555:LYS:HD3	1.98	0.46
2:H:676:LEU:C	2:H:676:LEU:HD13	2.36	0.46
2:I:1086:ILE:O	2:I:1090:ILE:HG13	2.17	0.46
2:I:1948:MET:HG2	2:I:1993:PHE:CZ	2.50	0.46
2:I:200:LEU:H	2:I:200:LEU:HD23	1.81	0.46
2:I:444:LEU:HD23	2:I:444:LEU:HA	1.76	0.46
2:I:756:ASP:CA	2:I:843:TRP:HH2	2.28	0.46
2:J:781:GLY:CA	2:J:1071:VAL:HG13	2.46	0.46
2:J:1248:GLU:OE2	2:J:1250:ARG:NE	2.45	0.46
2:J:347:PRO:HA	2:J:432:PHE:CE1	2.50	0.46
2:J:460:ILE:CD1	2:J:487:ILE:HD11	2.45	0.46
2:J:611:THR:HG21	2:J:817:MET:CE	2.46	0.46
2:J:791:TYR:CD2	2:J:796:TRP:CG	3.03	0.46
2:J:929:MET:CE	2:J:934:VAL:HA	2.46	0.46
2:K:1053:ILE:CD1	2:K:1061:VAL:HG13	2.46	0.46
2:K:1872:GLU:HA	2:K:1872:GLU:OE1	2.13	0.46
2:K:196:PHE:N	2:K:196:PHE:CD2	2.84	0.46
2:K:207:LEU:HD22	2:K:309:LYS:HG3	1.98	0.46
2:K:870:THR:HG21	2:K:1064:THR:O	2.16	0.46
2:K:932:ALA:O	2:K:935:VAL:HG13	2.16	0.46
2:L:141:TYR:OH	2:L:267:THR:HG23	2.16	0.46
2:L:1734:ILE:O	2:L:1738:VAL:HG23	2.15	0.46
2:L:1946:LEU:HD22	2:L:1951:ILE:HG12	1.97	0.46
2:L:196:PHE:HD2	2:L:196:PHE:N	2.14	0.46
2:L:200:LEU:H	2:L:200:LEU:HD23	1.80	0.46
2:L:613:VAL:HG13	2:L:614:PRO:CD	2.46	0.46
1:A:965:TYR:CE1	1:A:1199:LEU:HD22	2.51	0.45
1:A:1473:HIS:CD2	1:E:1414:PRO:HD2	2.52	0.45
1:A:20:TYR:CE1	2:G:2018:ARG:NH2	2.84	0.45
1:B:1083:PRO:HD2	1:B:1084:GLU:OE2	2.16	0.45
1:B:450:TYR:CD2	1:B:450:TYR:C	2.90	0.45
1:B:457:THR:HG22	1:B:464:GLN:HA	1.97	0.45
1:B:731:ASP:HB3	1:B:735:GLY:HA3	1.97	0.45
1:C:1218:VAL:HG13	1:C:1301:VAL:CG1	2.46	0.45
1:C:1160:VAL:HG11	1:C:1337:PRO:HB3	1.98	0.45
1:C:493:PRO:HD2	1:C:517:ARG:O	2.16	0.45
1:C:569:LEU:HD13	1:D:548:VAL:HG23	1.98	0.45
1:D:1037:ASN:CG	1:D:1674:ILE:HG23	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1005:TRP:HE1	1:D:1561:LEU:HD22	1.77	0.45
1:C:375:TRP:CD2	1:D:375:TRP:HB3	2.51	0.45
1:E:1542:LEU:HD22	1:E:1547:ARG:HD3	1.97	0.45
1:F:1275:THR:HA	1:F:1276:PRO:HD3	1.59	0.45
1:F:1592:ALA:O	1:F:1593:ASP:C	2.54	0.45
1:A:720:GLN:HG3	1:F:378:GLU:OE2	2.15	0.45
1:F:415:TYR:CD2	1:F:1614:THR:HA	2.51	0.45
1:F:612:ILE:HG22	1:F:628:TYR:CD2	2.52	0.45
2:G:48:LEU:HD11	2:G:101:VAL:HG11	1.97	0.45
2:G:870:THR:HG21	2:G:1064:THR:O	2.16	0.45
2:G:173:PHE:CE2	2:G:516:PHE:HB2	2.51	0.45
2:G:459:LYS:HA	2:G:485:ASP:CG	2.36	0.45
2:G:914:TRP:CD1	2:G:916:GLY:HA3	2.52	0.45
2:H:48:LEU:HD11	2:H:101:VAL:HG11	1.97	0.45
2:H:1551:ILE:HG22	2:H:1552:GLU:N	2.30	0.45
2:H:1871:VAL:CG2	2:H:2004:PRO:HD3	2.46	0.45
2:H:2005:PHE:CA	2:H:2010:LEU:HD11	2.46	0.45
2:H:719:GLY:O	2:H:755:GLU:HG3	2.16	0.45
2:H:791:TYR:CD2	2:H:796:TRP:CG	3.04	0.45
1:B:962:ASN:HB3	2:H:969:ARG:CD	2.46	0.45
2:I:1047:LEU:N	2:I:1047:LEU:HD12	2.30	0.45
2:I:1192:LEU:HD22	2:I:1196:PHE:CE1	2.50	0.45
2:I:1350:ILE:HD13	2:I:1610:MET:SD	2.56	0.45
2:I:820:LYS:HB3	2:I:1080:ASP:O	2.15	0.45
2:J:1142:ILE:HG13	2:J:1209:PRO:HG2	1.98	0.45
2:J:743:TRP:CD1	2:J:761:ILE:HD11	2.51	0.45
2:J:856:THR:HG23	2:J:866:HIS:NE2	2.31	0.45
2:K:1346:MET:HG3	2:K:1380:TYR:CD1	2.51	0.45
2:K:1770:ASN:HB2	2:K:1776:LYS:CE	2.43	0.45
2:K:182:TYR:CD1	2:K:183:PHE:N	2.84	0.45
1:E:60:THR:HG23	2:K:1922:VAL:HG13	1.99	0.45
2:K:76:VAL:HG11	2:K:109:PHE:HD1	1.81	0.45
2:K:789:TYR:O	2:K:792:LEU:HB3	2.16	0.45
2:L:1192:LEU:HD22	2:L:1196:PHE:CE1	2.51	0.45
2:L:155:ASP:N	2:L:155:ASP:OD1	2.49	0.45
2:L:173:PHE:CE2	2:L:516:PHE:HB2	2.51	0.45
2:L:791:TYR:CD2	2:L:796:TRP:CG	3.04	0.45
1:A:1011:ARG:HD2	1:A:1011:ARG:O	2.16	0.45
1:A:1175:VAL:HA	1:A:1176:PRO:HD3	1.83	0.45
1:A:994:VAL:HG21	1:A:1291:TYR:CD1	2.51	0.45
1:A:846:TRP:HZ2	1:A:856:ASN:O	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:869:ARG:HE	1:A:869:ARG:HB2	1.58	0.45
1:A:962:ASN:HB3	2:G:969:ARG:CD	2.44	0.45
1:B:1004:PRO:HD3	1:B:1572:TRP:HH2	1.80	0.45
1:B:1495:ARG:O	1:B:1496:ARG:HB3	2.15	0.45
1:B:1512:LEU:HD21	1:B:1641:TYR:CE2	2.51	0.45
1:B:565:GLN:HG2	1:B:565:GLN:O	2.15	0.45
1:B:876:MET:HE3	1:B:876:MET:O	2.16	0.45
1:C:1097:LEU:HD12	1:F:1241:LEU:HD23	1.98	0.45
1:C:1168:TRP:HE1	1:C:1173:TYR:HE1	1.64	0.45
1:C:1338:GLY:C	1:C:1340:MET:H	2.19	0.45
1:C:1414:PRO:HG2	1:F:1473:HIS:NE2	2.31	0.45
1:C:746:PHE:CD1	1:C:800:PRO:HG3	2.51	0.45
1:C:914:LEU:CD1	1:C:918:LEU:HD12	2.47	0.45
1:D:1338:GLY:C	1:D:1340:MET:H	2.19	0.45
1:E:1514:ILE:H	1:E:1514:ILE:HG13	1.37	0.45
1:E:17:LEU:HD23	2:K:2043:VAL:CG2	2.46	0.45
1:E:974:ASP:O	1:E:979:PRO:HD3	2.16	0.45
1:F:740:LEU:HD12	1:F:781:ILE:HD13	1.98	0.45
2:G:1031:VAL:HA	2:G:1032:PRO:HD3	1.64	0.45
2:G:1404:VAL:O	2:G:1445:THR:HA	2.16	0.45
2:G:1602:LEU:HB3	2:G:1604:GLY:H	1.81	0.45
2:H:1344:ALA:N	2:H:1389:LEU:O	2.42	0.45
2:H:1622:THR:HG23	2:H:1627:ASN:OD1	2.16	0.45
2:H:1961:SER:O	2:H:1965:VAL:HG22	2.16	0.45
2:H:1969:LEU:HA	2:H:1972:ILE:HD12	1.99	0.45
2:H:1948:MET:HG2	2:H:1993:PHE:CZ	2.52	0.45
2:H:2009:PHE:O	2:H:2009:PHE:HD2	1.99	0.45
4:H:2101:FMN:N1	4:H:2101:FMN:O2'	2.44	0.45
2:H:117:ASN:CA	2:H:561:ARG:HG3	2.34	0.45
2:I:186:LEU:CG	2:I:256:VAL:HG22	2.45	0.45
2:I:1981:GLU:O	2:I:1984:PRO:HG3	2.16	0.45
2:I:613:VAL:HG13	2:I:614:PRO:CD	2.47	0.45
2:I:685:VAL:HG23	2:I:1186:ARG:NH1	2.31	0.45
2:I:854:VAL:HA	2:I:867:LYS:O	2.16	0.45
2:J:1000:TYR:HA	2:J:1001:PRO:HD2	1.74	0.45
2:J:113:PHE:CD1	2:J:113:PHE:N	2.84	0.45
2:J:123:ALA:O	2:J:126:VAL:HG23	2.17	0.45
2:J:1289:TYR:CB	2:J:1370:LEU:HD23	2.46	0.45
2:J:174:GLY:H	2:J:517:GLY:CA	2.28	0.45
2:J:1969:LEU:HA	2:J:1972:ILE:CD1	2.46	0.45
2:J:2063:GLY:O	2:J:2065:PRO:HD3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:609:THR:CB	2:J:610:PRO:HD3	2.45	0.45
2:K:621:THR:OG1	2:K:1083:ILE:HD13	2.16	0.45
2:K:129:ILE:CG2	2:K:132:LYS:HD2	2.46	0.45
2:K:1769:VAL:HG13	2:K:1774:SER:O	2.15	0.45
2:K:265:CYS:SG	2:K:275:LEU:HB2	2.57	0.45
2:K:290:VAL:HG11	2:K:315:LEU:CD1	2.46	0.45
2:K:350:MET:HG3	2:K:435:ILE:CB	2.45	0.45
2:K:394:PRO:HD2	2:K:397:SER:OG	2.16	0.45
2:K:76:VAL:O	2:K:80:ILE:HG13	2.16	0.45
2:K:894:GLU:CD	2:K:897:LYS:HD3	2.35	0.45
2:L:1410:GLY:HA2	2:L:1437:GLY:H	1.82	0.45
2:L:1977:ARG:HD3	2:L:1978:LYS:HG3	1.98	0.45
2:L:223:LYS:HB3	2:L:242:TYR:CZ	2.51	0.45
2:L:57:PRO:HB2	2:L:65:GLN:HE22	1.81	0.45
2:L:708:THR:HB	2:L:709:LEU:HD23	1.97	0.45
2:L:907:ASN:HA	2:L:913:VAL:HG13	1.97	0.45
1:B:626:TRP:CE3	1:B:898:PHE:HB2	2.51	0.45
1:C:1169:ASP:OD2	1:C:1171:ARG:HB2	2.17	0.45
1:C:1183:VAL:HG11	1:C:1187:THR:CG2	2.46	0.45
1:C:1363:MET:HB2	1:C:1363:MET:HE2	1.79	0.45
1:D:1275:THR:HA	1:D:1276:PRO:HD3	1.55	0.45
1:D:493:PRO:HD2	1:D:517:ARG:O	2.16	0.45
1:D:661:GLY:O	1:D:667:ALA:HB2	2.16	0.45
1:D:667:ALA:O	1:D:671:GLN:HG3	2.15	0.45
1:D:999:LEU:HD23	1:D:999:LEU:HA	1.75	0.45
1:E:1011:ARG:NH1	1:E:1012:TRP:HA	2.32	0.45
2:G:1180:VAL:CG1	2:G:1188:GLN:H	2.30	0.45
2:G:202:THR:HA	2:G:228:LEU:HD11	1.98	0.45
2:G:578:PRO:HG3	2:G:792:LEU:O	2.16	0.45
2:G:76:VAL:HG11	2:G:109:PHE:CD1	2.50	0.45
2:G:894:GLU:CD	2:G:897:LYS:HD3	2.37	0.45
2:H:1000:TYR:HA	2:H:1001:PRO:HD2	1.72	0.45
2:H:1745:LEU:HD12	2:H:1746:THR:N	2.31	0.45
2:H:1910:VAL:CG1	2:H:1973:ILE:HG21	2.46	0.45
2:H:1977:ARG:HD3	2:H:1978:LYS:HG3	1.98	0.45
2:H:204:ILE:CG2	2:H:312:VAL:HG11	2.45	0.45
2:H:747:ARG:HH11	2:H:780:SER:CB	2.25	0.45
2:H:737:PHE:O	2:H:773:ASN:HB3	2.16	0.45
2:H:929:MET:CE	2:H:934:VAL:HA	2.46	0.45
2:I:1709:TYR:HE2	2:I:1716:LYS:HE2	1.81	0.45
2:I:521:VAL:CG1	2:I:549:ASN:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:821:GLU:CD	2:I:1083:ILE:HG13	2.37	0.45
2:J:912:LYS:HG2	2:J:1029:PRO:C	2.37	0.45
2:J:1311:GLY:HA3	2:J:1397:THR:HB	1.97	0.45
2:J:1656:VAL:O	2:J:1656:VAL:HG22	2.17	0.45
2:J:1910:VAL:CG1	2:J:1973:ILE:HG21	2.46	0.45
2:J:1881:TYR:CB	2:J:2004:PRO:HG3	2.47	0.45
1:D:23:ALA:HA	2:J:2007:SER:O	2.17	0.45
2:J:846:THR:HG22	2:J:855:ILE:C	2.36	0.45
2:K:73:VAL:HA	2:K:113:PHE:CE2	2.52	0.45
2:K:1871:VAL:CG2	2:K:2004:PRO:HD3	2.46	0.45
2:K:459:LYS:O	2:K:461:PRO:HD3	2.16	0.45
2:K:785:SER:HB3	2:K:1090:ILE:HG23	1.98	0.45
2:K:865:ILE:HG22	2:K:867:LYS:HG3	1.98	0.45
2:K:929:MET:CE	2:K:934:VAL:HA	2.46	0.45
2:L:1017:LEU:O	2:L:1021:GLN:HG3	2.17	0.45
2:L:1048:TRP:NE1	2:L:1049:GLN:HG2	2.30	0.45
2:L:2009:PHE:C	2:L:2009:PHE:HD2	2.19	0.45
2:L:541:LEU:HG	2:L:552:VAL:CG1	2.47	0.45
2:L:980:LEU:CD2	2:L:986:LEU:HD21	2.46	0.45
1:A:46:GLU:HB3	1:A:80:CYS:HA	1.99	0.45
1:A:907:PHE:CE1	1:F:579:MET:HE1	2.51	0.45
1:B:759:ILE:HD12	1:B:759:ILE:N	2.31	0.45
1:C:1084:GLU:CD	1:C:1084:GLU:H	2.19	0.45
1:C:414:TYR:CE2	1:C:418:ILE:CD1	2.99	0.45
1:C:655:ALA:CB	1:C:742:TYR:HB2	2.46	0.45
1:C:881:LEU:HA	1:C:884:MET:CG	2.32	0.45
1:C:914:LEU:HD11	1:C:918:LEU:CD1	2.46	0.45
1:D:1708:ASN:HD21	1:D:1712:LYS:NZ	2.15	0.45
1:E:472:GLN:HA	1:E:472:GLN:HE21	1.81	0.45
1:E:613:PRO:C	1:E:615:LEU:N	2.69	0.45
1:E:833:TRP:HH2	1:E:839:ILE:HD11	1.81	0.45
1:E:853:MET:HG2	1:E:856:ASN:ND2	2.29	0.45
1:E:893:GLN:OE1	2:H:1751:GLY:HA2	2.16	0.45
1:F:1031:MET:HB3	1:F:1031:MET:HE2	1.74	0.45
1:F:334:ALA:O	1:F:338:GLN:HG3	2.16	0.45
1:F:88:ILE:HG21	2:L:1821:MET:HE2	1.98	0.45
2:G:1644:LEU:HB3	2:G:1645:PRO:CD	2.46	0.45
2:G:1883:MET:HB2	2:G:2001:ILE:HD12	1.99	0.45
2:G:204:ILE:HG21	2:G:312:VAL:HG21	1.98	0.45
2:G:676:LEU:C	2:G:676:LEU:HD13	2.37	0.45
2:G:747:ARG:NH1	2:G:780:SER:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:76:VAL:O	2:G:80:ILE:HG13	2.16	0.45
2:G:883:ILE:HG22	2:G:884:PHE:N	2.30	0.45
2:H:928:ASP:C	2:H:1007:LEU:HD23	2.36	0.45
2:H:44:GLN:HG3	2:H:101:VAL:CG2	2.46	0.45
2:H:73:VAL:HA	2:H:113:PHE:CE2	2.52	0.45
2:H:685:VAL:HG13	2:H:686:PRO:HD2	1.98	0.45
2:H:882:LYS:HD3	2:H:898:ARG:CZ	2.47	0.45
2:H:894:GLU:CD	2:H:897:LYS:HD3	2.36	0.45
2:I:2021:LEU:HD22	2:I:2025:ILE:HD11	1.98	0.45
2:I:699:ILE:H	2:I:699:ILE:CD1	2.26	0.45
2:I:617:PHE:HE1	2:I:819:ALA:HB3	1.82	0.45
2:I:846:THR:HG22	2:I:855:ILE:C	2.37	0.45
2:J:1053:ILE:HD11	2:J:1061:VAL:HG13	1.99	0.45
2:J:1551:ILE:HG22	2:J:1552:GLU:N	2.31	0.45
2:J:1894:THR:HB	2:J:1954:GLN:OE1	2.16	0.45
2:J:270:ARG:HG3	2:J:274:GLU:CD	2.36	0.45
2:J:204:ILE:CG2	2:J:312:VAL:HG11	2.46	0.45
2:J:534:GLY:O	2:J:571:ASP:HA	2.17	0.45
2:K:1047:LEU:N	2:K:1047:LEU:HD12	2.31	0.45
2:K:1289:TYR:CB	2:K:1370:LEU:HD23	2.46	0.45
2:K:1324:PHE:CA	2:K:1583:VAL:HG11	2.47	0.45
2:L:1293:TRP:HE1	2:L:1586:ASP:HA	1.81	0.45
2:L:1709:TYR:HE2	2:L:1716:LYS:HE2	1.81	0.45
2:L:174:GLY:H	2:L:517:GLY:CA	2.29	0.45
2:L:207:LEU:HD22	2:L:309:LYS:HG3	1.99	0.45
2:L:440:HIS:NE2	2:L:499:VAL:HG23	2.32	0.45
2:L:468:PRO:HA	2:L:479:ARG:HD3	1.99	0.45
2:L:746:GLY:O	2:L:843:TRP:NE1	2.49	0.45
2:L:857:VAL:HG13	2:L:876:TRP:CD1	2.50	0.45
1:A:636:TYR:CE1	1:A:883:LEU:HD23	2.51	0.45
1:B:1337:PRO:HA	1:B:1340:MET:CG	2.46	0.45
1:B:329:THR:O	1:B:332:GLN:HB2	2.16	0.45
1:B:40:ARG:NH2	1:B:72:THR:CG2	2.80	0.45
1:C:963:LEU:HD23	1:C:1023:GLU:HB3	1.98	0.45
1:C:1335:ARG:HH11	1:C:1339:GLU:HG2	1.81	0.45
1:D:498:THR:CG2	1:D:858:LEU:HA	2.41	0.45
1:A:1150:ILE:HG12	1:E:1148:LEU:HD21	1.98	0.45
1:E:421:ARG:NH2	1:E:1613:LYS:CG	2.79	0.45
1:E:744:VAL:HG12	1:E:746:PHE:CD1	2.52	0.45
1:F:767:HIS:NE2	1:F:771:LEU:HD22	2.32	0.45
2:G:1053:ILE:CD1	2:G:1061:VAL:HG13	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1655:HIS:HE1	2:G:1657:GLY:O	1.99	0.45
2:G:1894:THR:HB	2:G:1954:GLN:OE1	2.16	0.45
1:A:11:TYR:CD1	2:G:2027:LYS:HG2	2.50	0.45
2:G:57:PRO:HB2	2:G:65:GLN:HE22	1.81	0.45
2:G:685:VAL:CG1	2:G:687:ILE:HG13	2.41	0.45
2:G:76:VAL:HG11	2:G:109:PHE:HD1	1.82	0.45
2:G:856:THR:HG23	2:G:866:HIS:NE2	2.32	0.45
2:G:915:PHE:O	2:G:915:PHE:CD2	2.69	0.45
2:H:1903:VAL:HG11	2:H:1943:LEU:HD21	1.99	0.45
2:H:1521:GLU:OE2	2:H:2028:THR:HG21	2.17	0.45
2:H:202:THR:O	2:H:206:GLU:HG3	2.16	0.45
2:H:43:PHE:CZ	2:I:42:HIS:CE1	3.05	0.45
2:H:31:LEU:HB2	2:H:72:VAL:HG22	1.98	0.45
2:H:76:VAL:HG11	2:H:109:PHE:CD1	2.51	0.45
2:I:1749:PHE:CD2	2:I:1758:ARG:HB3	2.51	0.45
2:I:290:VAL:CG1	2:I:314:LEU:HD23	2.46	0.45
2:I:342:ASN:HB3	2:I:406:ARG:HD3	1.99	0.45
2:I:585:VAL:O	2:I:585:VAL:HG12	2.17	0.45
2:J:1346:MET:CE	2:J:1617:ARG:HH21	2.30	0.45
4:J:2101:FMN:N1	4:J:2101:FMN:O2'	2.44	0.45
2:J:315:LEU:HA	2:J:318:ILE:HD12	1.97	0.45
2:J:501:TRP:NE1	2:J:528:THR:CG2	2.73	0.45
2:K:1473:PHE:HE1	2:K:1513:VAL:HG21	1.81	0.45
2:K:1635:TYR:CE2	2:K:1637:VAL:HG23	2.52	0.45
2:K:1655:HIS:HE1	2:K:1657:GLY:O	1.99	0.45
2:K:2017:PHE:CE2	2:K:2021:LEU:HD11	2.52	0.45
2:K:790:PRO:HA	2:K:795:SER:OG	2.17	0.45
2:L:1161:MET:HE1	2:L:1193:LYS:HG2	1.99	0.45
2:L:1234:ILE:HG22	2:L:1242:ILE:HG22	1.98	0.45
2:L:1802:ALA:CB	2:L:1804:GLN:HE22	2.27	0.45
2:L:153:PRO:HB3	2:L:270:ARG:NH1	2.31	0.45
2:L:381:SER:OG	2:L:392:THR:HG23	2.17	0.45
2:L:930:THR:O	2:L:934:VAL:HG23	2.16	0.45
2:L:942:MET:O	2:L:951:ILE:HG13	2.16	0.45
2:L:988:GLU:HA	2:L:989:PRO:HD3	1.74	0.45
1:A:1050:TRP:CE3	1:A:1050:TRP:HA	2.52	0.45
1:A:997:THR:HG23	1:A:1361:VAL:HG22	1.98	0.45
1:A:1473:HIS:NE2	1:E:1414:PRO:HG2	2.31	0.45
1:A:1514:ILE:H	1:A:1514:ILE:HG13	1.36	0.45
1:A:620:LYS:HE3	1:A:626:TRP:CZ2	2.52	0.45
1:A:857:ASN:HA	1:A:860:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1177:GLU:O	1:B:1180:ILE:HB	2.16	0.45
1:B:1338:GLY:C	1:B:1340:MET:H	2.19	0.45
1:B:492:ILE:HG13	1:B:492:ILE:H	1.50	0.45
1:C:1186:VAL:HG12	1:C:1187:THR:N	2.31	0.45
1:C:1463:GLU:O	1:C:1467:LEU:HB2	2.16	0.45
1:C:17:LEU:HD23	2:I:2043:VAL:CG2	2.46	0.45
1:C:857:ASN:HA	1:C:860:ALA:HB2	1.98	0.45
1:D:1055:THR:OG1	1:D:1057:GLU:HG2	2.17	0.45
1:D:79:LEU:HD12	1:D:88:ILE:HD13	1.99	0.45
1:F:1161:ALA:O	1:F:1163:GLN:HG3	2.17	0.45
1:F:421:ARG:NH2	1:F:1613:LYS:HB3	2.31	0.45
2:G:1114:GLU:HB3	2:G:1169:TYR:CB	2.44	0.45
2:G:1311:GLY:HA3	2:G:1397:THR:HB	1.99	0.45
2:G:1764:MET:HG3	2:G:1781:PHE:HE1	1.81	0.45
2:G:1905:GLU:O	2:G:1908:ALA:HB3	2.16	0.45
2:G:472:THR:HB	2:G:493:MET:HB3	1.99	0.45
2:H:1384:PRO:HB3	2:H:1829:ARG:NH1	2.32	0.45
2:H:1538:ASN:HB3	2:H:1541:ILE:CG2	2.47	0.45
2:H:155:ASP:HB3	2:H:278:ARG:NH1	2.32	0.45
2:H:1194:ARG:NH2	2:H:1601:ASN:HA	2.32	0.45
2:H:2008:THR:HG22	2:H:2011:ARG:HE	1.82	0.45
2:H:352:SER:HB2	2:H:433:LEU:HD11	1.99	0.45
2:H:529:ASN:HD22	2:H:552:VAL:HG23	1.82	0.45
1:B:960:ARG:HH12	2:H:968:GLU:CD	2.19	0.45
2:I:1517:LEU:CD2	2:I:1523:ILE:HD11	2.46	0.45
1:C:41:THR:HA	2:I:1689:VAL:HB	1.98	0.45
2:I:1887:ASN:OD1	2:I:1889:SER:HB2	2.15	0.45
2:I:246:ALA:N	2:I:247:PRO:HD2	2.32	0.45
2:I:490:LEU:HA	2:I:493:MET:SD	2.56	0.45
2:I:501:TRP:CZ2	2:I:528:THR:CG2	2.99	0.45
2:I:541:LEU:HG	2:I:552:VAL:CG1	2.47	0.45
2:I:664:TYR:C	2:I:666:ASN:H	2.20	0.45
2:I:728:ILE:HG22	2:I:732:LYS:HE3	1.97	0.45
2:I:917:ARG:HB2	2:I:937:ARG:HD3	1.98	0.45
2:J:788:THR:CG2	2:J:1094:HIS:CE1	2.99	0.45
2:J:1175:MET:HE1	2:J:1234:ILE:HG21	1.98	0.45
2:J:1269:ALA:HB1	2:J:1271:TYR:CE1	2.51	0.45
2:J:1903:VAL:HG11	2:J:1943:LEU:HD21	1.99	0.45
2:J:613:VAL:N	2:J:614:PRO:HD3	2.32	0.45
2:J:594:MET:SD	2:J:809:GLY:HA3	2.57	0.45
2:J:928:ASP:C	2:J:1007:LEU:HD23	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1009:ASN:HA	2:K:1009:ASN:HD22	1.56	0.45
2:K:200:LEU:H	2:K:200:LEU:HD23	1.82	0.45
2:L:1635:TYR:CE2	2:L:1637:VAL:HG23	2.52	0.45
2:L:1884:CYS:HB3	2:L:1936:LEU:CD1	2.42	0.45
2:L:1945:ILE:HG22	2:L:1946:LEU:N	2.32	0.45
2:L:462:ALA:HB3	2:L:483:ASP:HA	1.98	0.45
2:L:917:ARG:NH1	2:L:917:ARG:CG	2.44	0.45
1:A:1169:ASP:OD2	1:A:1171:ARG:HB2	2.17	0.45
1:A:1170:ALA:HB3	1:A:1188:LEU:HD13	1.98	0.45
1:A:1491:ASN:ND2	1:A:1491:ASN:N	2.65	0.45
1:A:22:PHE:HE2	2:G:2017:PHE:CB	2.29	0.45
1:A:498:THR:HG22	1:A:508:TYR:HD1	1.79	0.45
1:A:506:ILE:HD13	1:A:922:ILE:HG22	1.99	0.45
1:A:549:TYR:O	1:A:553:ARG:HB3	2.17	0.45
1:A:553:ARG:NH2	1:A:567:ASN:HD21	2.15	0.45
1:A:570:TYR:CD2	1:A:574:ILE:HD11	2.49	0.45
1:A:833:TRP:HH2	1:A:839:ILE:HD11	1.81	0.45
1:B:1129:ILE:HA	1:B:1139:THR:O	2.16	0.45
1:B:1440:TYR:O	1:B:1444:GLN:HB2	2.16	0.45
1:B:1463:GLU:O	1:B:1467:LEU:HB2	2.16	0.45
1:B:1484:GLU:O	1:B:1487:THR:HB	2.17	0.45
1:B:1562:THR:HB	1:B:1572:TRP:CZ3	2.52	0.45
1:B:1652:GLU:O	1:B:1656:VAL:HG23	2.16	0.45
1:B:427:ARG:HH12	1:B:492:ILE:CG2	2.07	0.45
1:B:40:ARG:HH21	1:B:74:VAL:HG22	1.81	0.45
1:B:79:LEU:HD12	1:B:88:ILE:HD13	1.99	0.45
1:C:1473:HIS:NE2	1:F:1414:PRO:HG2	2.32	0.45
1:C:1278:GLY:CA	1:C:1630:LYS:HE2	2.41	0.45
1:C:79:LEU:HD12	1:C:88:ILE:HD13	1.98	0.45
1:C:898:PHE:HD2	1:C:899:ALA:N	2.15	0.45
1:D:746:PHE:CG	3:D:1901:NAP:H4D	2.51	0.45
1:D:526:MET:CE	1:D:615:LEU:HG	2.47	0.45
1:A:1496:ARG:NH2	1:E:1297:GLY:HA2	2.32	0.45
1:E:330:LYS:HG3	1:E:333:ARG:HH12	1.79	0.45
1:E:741:ASP:CG	1:E:793:ARG:HH11	2.19	0.45
1:E:852:LEU:O	1:E:852:LEU:HD23	2.17	0.45
1:F:28:TRP:HE1	1:F:32:GLN:NE2	2.14	0.45
2:G:1002:GLU:C	2:G:1004:SER:H	2.19	0.45
2:G:1194:ARG:CG	2:G:1194:ARG:NH1	2.51	0.45
2:G:1361:ILE:HG22	2:G:1435:TYR:OH	2.17	0.45
2:G:1538:ASN:HB3	2:G:1541:ILE:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1820:ASP:O	2:G:1823:SER:HB3	2.17	0.45
2:G:186:LEU:HD21	2:G:256:VAL:HG22	1.97	0.45
2:G:1969:LEU:HA	2:G:1972:ILE:CD1	2.47	0.45
2:G:202:THR:O	2:G:206:GLU:HG3	2.16	0.45
2:G:250:PHE:O	2:G:315:LEU:HD23	2.17	0.45
2:G:459:LYS:O	2:G:461:PRO:HD3	2.16	0.45
2:G:48:LEU:HB2	2:G:79:TYR:OH	2.17	0.45
2:G:690:LEU:HB2	2:G:711:ILE:HG21	1.99	0.45
2:G:616:ASP:OD2	2:G:823:HIS:CE1	2.70	0.45
2:G:871:ARG:HB2	2:G:909:ASP:HB2	1.98	0.45
2:H:781:GLY:CA	2:H:1071:VAL:HG13	2.46	0.45
2:H:1350:ILE:HG22	2:H:1429:VAL:HG11	1.97	0.45
2:H:1351:VAL:CG1	2:H:1352:VAL:N	2.79	0.45
2:H:1835:GLY:HA3	2:H:1839:GLY:C	2.37	0.45
2:H:1985:GLN:C	2:H:1987:VAL:N	2.67	0.45
2:H:2009:PHE:HD2	2:H:2009:PHE:C	2.19	0.45
2:H:22:ARG:HD2	2:H:42:HIS:CB	2.47	0.45
2:H:24:LEU:CD1	2:H:37:VAL:HG21	2.45	0.45
2:H:613:VAL:N	2:H:614:PRO:HD3	2.32	0.45
2:H:797:SER:O	2:H:802:TYR:HB2	2.16	0.45
2:H:907:ASN:HA	2:H:913:VAL:HG13	1.99	0.45
2:I:1293:TRP:HZ3	2:I:1370:LEU:HD21	1.81	0.45
2:I:2058:VAL:O	2:I:2062:THR:HB	2.17	0.45
2:I:785:SER:HB3	2:I:1090:ILE:HG23	1.99	0.45
2:I:856:THR:HG23	2:I:866:HIS:NE2	2.31	0.45
2:I:871:ARG:HB2	2:I:909:ASP:HB2	1.98	0.45
1:D:30:GLU:CB	2:J:2045:ALA:HB1	2.41	0.45
2:J:310:ARG:HH12	2:J:459:LYS:H	1.65	0.45
2:J:358:ARG:HB2	2:J:389:PHE:CE2	2.51	0.45
2:K:1017:LEU:O	2:K:1021:GLN:HG3	2.16	0.45
2:K:129:ILE:HG21	2:K:132:LYS:HD2	1.98	0.45
2:K:193:TYR:HD1	2:K:263:ILE:HD13	1.79	0.45
2:K:276:LEU:O	2:K:467:ILE:CD1	2.64	0.45
2:K:472:THR:HB	2:K:493:MET:HB3	1.99	0.45
2:K:931:TYR:CZ	2:K:1008:ILE:HA	2.52	0.45
2:L:45:ALA:HB2	2:L:101:VAL:HG22	1.99	0.45
2:L:1472:TRP:CD2	2:L:1540:VAL:HG22	2.52	0.45
2:L:906:LEU:HD22	2:L:906:LEU:HA	1.81	0.45
1:A:1507:LEU:HA	1:A:1507:LEU:HD23	1.84	0.45
1:A:448:MET:HA	1:A:448:MET:HE3	1.99	0.45
1:A:2:ARG:HB2	1:A:5:VAL:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:827:ARG:NH1	1:A:831:GLU:OE2	2.50	0.45
1:B:1121:ARG:NH1	1:D:1153:ALA:O	2.49	0.45
1:B:40:ARG:HH21	1:B:72:THR:CG2	2.30	0.45
1:B:440:SER:HB3	1:B:481:LEU:CD2	2.39	0.45
1:B:859:VAL:O	1:B:859:VAL:HG12	2.16	0.45
1:D:1102:ILE:HD13	1:D:1106:LEU:CD2	2.47	0.45
1:D:1495:ARG:O	1:D:1496:ARG:HB3	2.16	0.45
1:D:413:MET:O	1:D:416:ASP:HB2	2.17	0.45
1:E:1171:ARG:HD3	1:E:1177:GLU:OE1	2.17	0.45
1:E:1219:GLY:HA2	1:E:1272:PRO:HD2	1.98	0.45
1:A:1696:PHE:HB3	1:E:1402:THR:HG22	1.99	0.45
1:E:844:ILE:N	1:E:844:ILE:HD12	2.32	0.45
1:A:576:ALA:HB3	1:F:541:VAL:HG22	1.99	0.45
1:F:79:LEU:HD12	1:F:88:ILE:HD13	1.99	0.45
1:F:962:ASN:HD22	2:L:1006:GLN:NE2	2.11	0.45
2:G:1175:MET:CE	2:G:1234:ILE:HG21	2.47	0.45
2:G:1238:GLY:O	2:G:1239:ASP:HB2	2.17	0.45
2:G:1515:LEU:CB	2:G:1525:VAL:HG21	2.47	0.45
2:G:1709:TYR:CE2	2:G:1716:LYS:HG2	2.52	0.45
2:G:1881:TYR:CZ	2:G:2009:PHE:HE1	2.35	0.45
2:G:391:VAL:HG12	2:G:398:LEU:HD21	1.99	0.45
2:G:60:THR:HG22	2:G:62:GLU:H	1.81	0.45
2:G:330:SER:H	2:H:1331:THR:HG22	1.82	0.45
2:H:155:ASP:OD1	2:H:155:ASP:N	2.49	0.45
2:H:207:LEU:HD22	2:H:309:LYS:HG3	1.99	0.45
2:H:382:LEU:HG	2:H:390:VAL:HB	1.98	0.45
2:H:489:GLU:O	2:H:492:ARG:HG2	2.17	0.45
2:H:595:SER:HB3	2:H:602:PRO:HD3	1.99	0.45
2:H:626:TYR:OH	2:H:1088:ASP:HA	2.17	0.45
2:I:1361:ILE:HG22	2:I:1435:TYR:OH	2.17	0.45
2:I:1195:LEU:CD2	2:I:1595:VAL:HG12	2.47	0.45
2:I:1656:VAL:O	2:I:1656:VAL:HG22	2.17	0.45
2:I:1721:ARG:NH1	2:I:1854:GLU:OE2	2.49	0.45
2:I:1985:GLN:C	2:I:1987:VAL:N	2.69	0.45
2:I:372:LEU:CD1	2:I:397:SER:HB2	2.47	0.45
2:I:117:ASN:OD1	2:I:561:ARG:HB2	2.16	0.45
2:I:608:MET:HA	4:I:2101:FMN:C5A	2.46	0.45
2:I:617:PHE:CD1	2:I:822:ALA:HA	2.51	0.45
2:I:76:VAL:HG11	2:I:109:PHE:HD1	1.81	0.45
2:I:931:TYR:CZ	2:I:1008:ILE:HA	2.52	0.45
2:J:1019:LEU:HA	2:J:1022:ARG:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1289:TYR:CD2	2:J:1370:LEU:HD23	2.51	0.45
2:J:2052:LYS:H	2:J:2052:LYS:HG2	1.44	0.45
2:K:1192:LEU:HD22	2:K:1196:PHE:CE1	2.50	0.45
2:K:481:LEU:C	2:K:483:ASP:H	2.19	0.45
2:L:1229:VAL:CG1	2:L:1230:LYS:N	2.79	0.45
2:K:327:PRO:CD	2:L:1338:ARG:HH21	2.28	0.45
2:L:1517:LEU:CD2	2:L:1523:ILE:HD11	2.47	0.45
2:L:193:TYR:HD1	2:L:263:ILE:HD13	1.78	0.45
2:L:382:LEU:HG	2:L:390:VAL:HB	1.97	0.45
2:L:444:LEU:HD23	2:L:444:LEU:HA	1.73	0.45
2:L:718:PRO:HG2	2:L:741:LEU:HD11	1.98	0.45
2:L:762:LEU:HD23	2:L:805:MET:HE1	1.99	0.45
1:A:1199:LEU:HD23	1:A:1199:LEU:O	2.17	0.45
1:A:539:THR:HA	1:A:542:GLN:HE21	1.82	0.45
1:B:1154:LEU:HD21	1:D:1118:GLU:OE2	2.17	0.45
1:B:543:ASN:O	1:B:546:ARG:HB2	2.17	0.45
1:B:679:LYS:HG2	1:B:708:GLN:CB	2.47	0.45
1:C:1562:THR:HB	1:C:1572:TRP:CZ3	2.52	0.45
1:C:1584:GLY:HA2	1:C:1617:ILE:HD12	1.99	0.45
1:C:443:LEU:H	1:C:443:LEU:HD12	1.82	0.45
1:D:1078:ILE:HA	1:D:1162:GLY:HA2	1.98	0.45
1:D:1199:LEU:HD23	1:D:1199:LEU:O	2.17	0.45
1:D:1330:GLU:HG2	1:D:1333:ARG:HH11	1.81	0.45
1:D:1426:GLU:HA	1:D:1429:ARG:HB2	1.98	0.45
1:E:1022:LEU:HD13	1:E:1022:LEU:O	2.17	0.45
1:E:1395:ALA:HA	1:E:1396:PRO:HD3	1.81	0.45
1:E:1495:ARG:O	1:E:1496:ARG:HB3	2.16	0.45
1:E:452:ILE:CD1	1:E:467:LYS:HA	2.47	0.45
1:F:1265:LEU:O	1:F:1266:LEU:HD23	2.17	0.45
1:F:1419:LYS:O	1:F:1422:ARG:HB2	2.17	0.45
1:F:1565:PRO:O	1:F:1566:LYS:C	2.55	0.45
2:G:1231:THR:HG23	2:G:1595:VAL:CG2	2.41	0.45
2:G:1835:GLY:HA3	2:G:1839:GLY:C	2.37	0.45
2:G:196:PHE:HD2	2:G:196:PHE:N	2.14	0.45
2:G:1985:GLN:C	2:G:1987:VAL:N	2.67	0.45
2:G:617:PHE:CD1	2:G:822:ALA:HA	2.51	0.45
2:G:914:TRP:CZ3	2:G:1033:ALA:HA	2.51	0.45
2:G:938:MET:O	2:G:942:MET:HG3	2.17	0.45
2:H:248:VAL:O	2:H:252:LEU:HB2	2.17	0.45
2:H:541:LEU:HG	2:H:552:VAL:CG1	2.47	0.45
2:I:1194:ARG:NH1	2:I:1194:ARG:CG	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:251:PRO:CG	2:I:316:PHE:HA	2.44	0.45
2:I:448:HIS:CD2	2:I:491:VAL:CG1	2.98	0.45
2:I:44:GLN:O	2:I:48:LEU:HG	2.16	0.45
2:I:747:ARG:NH1	2:I:780:SER:O	2.50	0.45
2:I:594:MET:HB3	2:I:808:ASP:O	2.16	0.45
2:I:604:MET:CE	2:I:811:MET:HB2	2.46	0.45
2:I:52:PHE:HB2	2:I:82:PHE:CE2	2.51	0.45
2:J:226:ASP:OD2	2:J:229:GLN:HB2	2.17	0.45
2:J:541:LEU:HG	2:J:552:VAL:HG11	1.98	0.45
2:J:617:PHE:CD1	2:J:822:ALA:CA	3.00	0.45
2:J:785:SER:O	2:J:789:TYR:HB2	2.17	0.45
2:K:1203:TYR:O	2:K:1219:VAL:HA	2.16	0.45
2:J:376:ARG:NH2	2:K:1340:LYS:HG3	2.32	0.45
2:K:1342:PHE:HE2	2:K:1391:VAL:HB	1.82	0.45
2:K:1722:ALA:HB1	2:K:1812:LEU:HD21	1.99	0.45
2:L:1384:PRO:HB3	2:L:1829:ARG:HH12	1.82	0.45
2:L:44:GLN:O	2:L:48:LEU:HG	2.17	0.45
2:L:962:PHE:O	2:L:965:ARG:HB3	2.16	0.45
1:A:1654:TYR:CZ	1:A:1658:VAL:HG21	2.52	0.45
1:A:21:GLN:HB3	1:A:21:GLN:HE21	1.57	0.45
1:A:532:ILE:HG21	1:A:907:PHE:CB	2.44	0.45
1:B:1011:ARG:HH11	1:B:1012:TRP:HA	1.82	0.45
1:B:1296:GLN:HG2	1:D:1296:GLN:HE21	1.82	0.45
1:B:1686:PRO:HB2	1:B:1713:PHE:CE1	2.52	0.45
1:B:20:TYR:CZ	2:H:2062:THR:HG23	2.52	0.45
1:B:455:CYS:HA	1:B:456:PRO:HD3	1.83	0.45
1:B:661:GLY:O	1:B:667:ALA:HB2	2.16	0.45
1:B:835:ASN:OD1	1:B:835:ASN:N	2.50	0.45
1:C:1160:VAL:HB	1:C:1352:MET:HE1	1.99	0.45
1:D:1129:ILE:HA	1:D:1139:THR:O	2.16	0.45
1:D:605:ARG:HB3	1:D:606:PRO:HD2	1.96	0.45
1:E:1491:ASN:ND2	1:E:1491:ASN:H	2.15	0.45
1:F:1306:GLY:O	1:F:1357:CYS:HB2	2.17	0.45
1:F:50:SER:HB2	1:F:52:THR:HG23	1.99	0.45
1:F:716:GLN:NE2	1:F:747:ALA:HB3	2.32	0.45
2:G:955:LEU:HD21	2:G:1026:LYS:O	2.17	0.45
2:G:1179:GLU:OE1	2:G:1179:GLU:N	2.49	0.45
2:G:1286:LYS:NZ	2:G:1367:ASP:HA	2.32	0.45
2:G:1499:LYS:CG	2:G:1500:ASN:N	2.79	0.45
2:G:1496:VAL:HG21	2:G:1504:TYR:CD2	2.52	0.45
2:G:1910:VAL:CG1	2:G:1973:ILE:HG21	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:290:VAL:HG11	2:G:315:LEU:CD1	2.47	0.45
2:G:501:TRP:NE1	2:G:528:THR:CG2	2.76	0.45
2:G:776:LEU:HG	2:G:807:PHE:CD2	2.52	0.45
2:G:937:ARG:CZ	2:G:941:LEU:HD11	2.47	0.45
2:H:1057:TYR:C	2:H:1059:GLN:H	2.20	0.45
2:H:2063:GLY:O	2:H:2065:PRO:HD3	2.16	0.45
2:H:202:THR:HA	2:H:228:LEU:HD11	1.98	0.45
2:H:329:THR:HA	2:I:1331:THR:HG22	1.98	0.45
2:H:468:PRO:HA	2:H:479:ARG:HD3	1.99	0.45
2:H:460:ILE:O	2:H:486:ILE:N	2.49	0.45
2:H:718:PRO:HG2	2:H:741:LEU:CD1	2.47	0.45
2:I:1044:LYS:HE2	3:I:2102:NAP:H4B	1.99	0.45
2:I:1317:ASN:HB3	2:I:1320:ALA:CB	2.47	0.45
2:H:376:ARG:NH2	2:I:1340:LYS:HE3	2.27	0.45
2:I:1510:ILE:HA	2:I:1528:VAL:O	2.17	0.45
2:I:399:TYR:CE2	2:I:403:LEU:HD11	2.52	0.45
2:I:655:GLY:HA3	2:I:1272:ALA:HB2	1.98	0.45
2:I:716:PHE:CD1	2:I:727:VAL:HG13	2.52	0.45
2:I:914:TRP:CZ3	2:I:1033:ALA:HA	2.52	0.45
2:J:129:ILE:CG2	2:J:132:LYS:HD2	2.47	0.45
2:J:1404:VAL:HA	2:J:1412:MET:O	2.17	0.45
2:J:2064:SER:OG	2:J:2067:ILE:HB	2.17	0.45
2:J:31:LEU:HB2	2:J:72:VAL:HG22	1.99	0.45
2:J:31:LEU:HD13	2:J:75:LEU:HG	1.99	0.45
2:K:1634:SER:HB3	2:K:1684:GLU:HB2	1.98	0.45
2:K:187:ARG:HH22	2:K:234:PRO:HA	1.82	0.45
2:K:311:ALA:O	2:K:314:LEU:HB3	2.17	0.45
2:K:560:ASP:HB3	2:K:565:ALA:HB1	1.99	0.45
2:K:57:PRO:HB2	2:K:65:GLN:HE22	1.81	0.45
2:L:870:THR:HG21	2:L:1064:THR:O	2.16	0.45
2:L:1602:LEU:HB3	2:L:1604:GLY:H	1.82	0.45
2:L:318:ILE:HA	2:L:451:ILE:HD13	1.99	0.45
2:L:276:LEU:O	2:L:467:ILE:CD1	2.65	0.45
2:L:818:THR:HA	2:L:829:LYS:HE2	1.98	0.45
1:A:1280:CYS:HA	1:A:1566:LYS:O	2.17	0.44
1:A:1393:VAL:N	1:A:1394:PRO:CD	2.80	0.44
1:A:1426:GLU:HA	1:A:1429:ARG:HB2	1.98	0.44
1:A:1495:ARG:HH11	1:A:1495:ARG:HG2	1.82	0.44
1:A:1546:GLY:O	1:A:1547:ARG:C	2.55	0.44
1:A:958:GLU:HA	1:A:959:PRO:HD3	1.84	0.44
1:B:1164:ILE:CD1	1:B:1355:GLN:HG3	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1265:LEU:O	1:B:1266:LEU:HD23	2.17	0.44
1:B:1617:ILE:N	1:B:1617:ILE:CD1	2.77	0.44
1:B:558:LEU:HD11	1:E:558:LEU:HD21	1.98	0.44
1:B:570:TYR:O	1:B:574:ILE:HG12	2.17	0.44
1:B:575:ARG:HG2	1:B:579:MET:SD	2.57	0.44
1:B:940:ASN:HB3	1:B:949:GLU:OE2	2.17	0.44
1:C:1393:VAL:N	1:C:1394:PRO:CD	2.80	0.44
1:C:1542:LEU:HD22	1:C:1547:ARG:HD3	1.99	0.44
1:C:714:PHE:CE1	1:C:725:LEU:HD12	2.51	0.44
1:C:626:TRP:CD2	1:C:898:PHE:CD1	3.04	0.44
1:B:1321:MET:HE3	1:D:1251:GLN:HG3	1.97	0.44
1:D:998:GLY:CA	1:D:1361:VAL:HG13	2.31	0.44
1:D:409:ASP:HB2	1:D:439:ARG:HH12	1.82	0.44
1:E:1184:ASP:OD1	1:E:1185:PRO:HD2	2.16	0.44
1:E:1463:GLU:O	1:E:1467:LEU:HB2	2.17	0.44
1:E:392:ASP:HA	1:E:393:PRO:HD2	1.73	0.44
1:E:415:TYR:CE2	1:E:1614:THR:HB	2.52	0.44
1:E:612:ILE:HA	1:E:613:PRO:HD3	1.57	0.44
1:F:487:TYR:CE2	1:F:881:LEU:HD13	2.52	0.44
1:F:766:ALA:HA	1:F:769:ILE:HD12	2.00	0.44
2:G:1086:ILE:O	2:G:1090:ILE:HG13	2.16	0.44
2:G:1366:ILE:O	2:G:1366:ILE:HG22	2.17	0.44
2:G:1483:LEU:HG	2:G:1483:LEU:H	1.13	0.44
2:G:1519:THR:O	2:G:1520:LYS:HB2	2.16	0.44
2:G:1643:VAL:CG1	2:G:1649:ILE:HD11	2.48	0.44
4:G:2101:FMN:O2'	4:G:2101:FMN:N1	2.47	0.44
2:G:317:TRP:CD1	2:G:454:ASP:CG	2.90	0.44
2:G:460:ILE:O	2:G:486:ILE:N	2.50	0.44
2:H:1067:LEU:O	2:H:1068:GLN:HG2	2.17	0.44
2:H:1481:ILE:O	2:H:1481:ILE:HG13	2.17	0.44
2:H:1635:TYR:CE2	2:H:1637:VAL:HG23	2.52	0.44
2:H:1977:ARG:CD	2:H:1978:LYS:HG3	2.47	0.44
2:H:2044:THR:HG21	2:H:2054:TYR:CZ	2.51	0.44
2:H:52:PHE:HB2	2:H:82:PHE:CE2	2.52	0.44
2:H:571:ASP:OD2	2:H:573:VAL:HB	2.17	0.44
2:H:571:ASP:CG	2:H:573:VAL:HG23	2.38	0.44
2:H:601:PRO:HB2	2:H:626:TYR:CE2	2.52	0.44
2:H:827:GLN:CD	2:H:827:GLN:H	2.18	0.44
2:H:746:GLY:O	2:H:843:TRP:NE1	2.50	0.44
2:I:1028:VAL:HA	2:I:1029:PRO:HD3	1.74	0.44
2:I:781:GLY:CA	2:I:1071:VAL:HG13	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1309:PHE:N	2:I:1309:PHE:CD1	2.84	0.44
2:I:1352:VAL:HG11	2:I:1395:LEU:HD12	1.98	0.44
2:I:1635:TYR:CE2	2:I:1637:VAL:HG23	2.53	0.44
2:I:1764:MET:HB3	2:I:1780:ILE:CG1	2.47	0.44
2:I:1903:VAL:HG13	2:I:1942:VAL:HG11	1.99	0.44
2:I:2017:PHE:CE2	2:I:2021:LEU:HD11	2.53	0.44
2:J:815:ARG:NH2	2:J:1086:ILE:CG2	2.80	0.44
2:J:1447:GLN:HB3	2:J:1496:VAL:HG13	1.99	0.44
2:J:749:GLY:HA3	4:J:2101:FMN:HM81	1.99	0.44
2:J:38:PRO:HD2	2:J:104:LEU:CD1	2.45	0.44
2:J:459:LYS:HA	2:J:485:ASP:CG	2.37	0.44
2:J:511:THR:C	2:J:512:HIS:CD2	2.91	0.44
2:J:76:VAL:HG11	2:J:109:PHE:HD1	1.82	0.44
2:J:917:ARG:HB2	2:J:937:ARG:HD3	1.99	0.44
2:J:942:MET:HE2	2:J:955:LEU:HD13	1.97	0.44
2:K:1031:VAL:HA	2:K:1032:PRO:HD3	1.70	0.44
2:K:174:GLY:HA2	2:K:524:ILE:CG1	2.47	0.44
2:K:582:LYS:HA	2:K:587:GLN:O	2.17	0.44
2:K:608:MET:HB3	2:K:608:MET:HE2	1.63	0.44
2:K:699:ILE:HD12	2:K:699:ILE:N	2.31	0.44
2:K:906:LEU:HD22	2:K:906:LEU:HA	1.79	0.44
2:L:1083:ILE:H	2:L:1083:ILE:HG13	1.53	0.44
1:F:23:ALA:HB2	2:L:2010:LEU:HB2	1.99	0.44
2:L:2044:THR:HG21	2:L:2054:TYR:CZ	2.52	0.44
2:L:472:THR:HB	2:L:493:MET:HB3	1.99	0.44
2:L:609:THR:CB	2:L:610:PRO:HD3	2.47	0.44
2:L:787:ASP:O	2:L:790:PRO:HD2	2.17	0.44
1:A:1084:GLU:H	1:A:1084:GLU:CD	2.19	0.44
1:A:984:LEU:HD21	1:A:1510:TRP:O	2.17	0.44
1:A:1685:ALA:HB1	1:A:1686:PRO:HD2	1.99	0.44
1:A:382:ILE:HG13	1:A:382:ILE:H	1.53	0.44
1:A:422:LEU:HD13	1:A:429:ILE:HG23	2.00	0.44
1:A:612:ILE:HG12	1:A:628:TYR:CD2	2.52	0.44
1:B:1306:GLY:O	1:B:1357:CYS:HB2	2.17	0.44
1:B:681:ILE:HG23	1:B:681:ILE:O	2.17	0.44
1:C:1175:VAL:HA	1:C:1176:PRO:HD3	1.84	0.44
1:C:1419:LYS:O	1:C:1422:ARG:HB2	2.17	0.44
1:C:1514:ILE:CD1	1:C:1545:LEU:HB3	2.47	0.44
1:C:392:ASP:HA	1:C:393:PRO:HD2	1.78	0.44
1:D:1674:ILE:HD12	2:J:1010:ALA:CB	2.46	0.44
1:D:1703:VAL:CG1	1:D:1711:LEU:HD22	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:564:LEU:O	1:D:567:ASN:HB2	2.16	0.44
1:D:626:TRP:CD2	1:D:898:PHE:HD1	2.35	0.44
1:E:1579:GLN:O	1:E:1583:THR:HG23	2.17	0.44
1:E:474:ILE:O	1:E:478:LYS:HG3	2.17	0.44
1:E:526:MET:HE1	1:E:614:PHE:HB3	1.99	0.44
1:E:40:ARG:HH21	1:E:74:VAL:HG22	1.83	0.44
1:E:935:GLU:HG3	2:K:1466:VAL:CG1	2.47	0.44
1:F:852:LEU:O	1:F:852:LEU:HD23	2.17	0.44
2:G:1299:VAL:HA	2:G:1300:PRO:HD3	1.82	0.44
2:G:1370:LEU:CA	2:G:1435:TYR:HE2	2.30	0.44
1:A:47:ILE:CD1	2:G:1818:PHE:HD1	2.30	0.44
2:G:45:ALA:HB2	2:G:101:VAL:HG22	2.00	0.44
2:H:1325:VAL:HG13	2:H:1330:ASN:O	2.17	0.44
2:H:1336:VAL:O	2:H:1336:VAL:HG12	2.17	0.44
2:H:1914:LEU:O	2:H:1931:GLY:HA3	2.18	0.44
2:H:1972:ILE:HG13	2:H:1972:ILE:H	1.42	0.44
2:H:208:LEU:HD23	2:H:211:LEU:HD12	1.99	0.44
2:H:472:THR:HB	2:H:493:MET:HB3	2.00	0.44
2:H:608:MET:HB3	2:H:608:MET:HE2	1.59	0.44
2:H:729:ASN:N	2:H:729:ASN:HD22	2.15	0.44
2:H:856:THR:HG23	2:H:866:HIS:NE2	2.32	0.44
2:I:1017:LEU:O	2:I:1021:GLN:HG3	2.18	0.44
2:I:1017:LEU:HD21	2:I:1032:PRO:HB2	1.99	0.44
2:I:1644:LEU:HB3	2:I:1645:PRO:CD	2.47	0.44
2:I:1634:SER:HB3	2:I:1684:GLU:HB2	1.99	0.44
2:I:353:ILE:HG22	2:I:353:ILE:O	2.16	0.44
2:I:606:ALA:HB2	2:I:811:MET:CG	2.47	0.44
2:I:827:GLN:H	2:I:827:GLN:CD	2.21	0.44
2:J:835:ALA:HB3	2:J:1073:ALA:HB1	1.98	0.44
2:J:168:LYS:H	2:J:511:THR:HB	1.82	0.44
2:J:1961:SER:O	2:J:1965:VAL:HG22	2.18	0.44
2:J:1948:MET:HG2	2:J:1993:PHE:CZ	2.52	0.44
2:J:399:TYR:CE2	2:J:403:LEU:HD11	2.52	0.44
2:J:868:LEU:HD12	2:J:1066:ILE:HD12	1.99	0.44
2:K:113:PHE:N	2:K:113:PHE:CD1	2.85	0.44
2:K:1336:VAL:HG12	2:K:1336:VAL:O	2.16	0.44
2:K:1571:LEU:O	2:K:1649:ILE:N	2.46	0.44
2:K:1977:ARG:CD	2:K:1978:LYS:HG3	2.46	0.44
2:K:2009:PHE:C	2:K:2009:PHE:HD2	2.20	0.44
2:K:196:PHE:CD1	2:K:266:LYS:HB3	2.52	0.44
2:K:204:ILE:CG2	2:K:312:VAL:HG21	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:48:LEU:HG	2:K:48:LEU:H	1.54	0.44
2:K:876:TRP:C	2:K:876:TRP:HD1	2.16	0.44
2:K:917:ARG:NH1	2:K:917:ARG:CG	2.47	0.44
2:L:1181:PHE:HE1	2:L:1191:PRO:HD2	1.78	0.44
2:L:1443:GLU:OE1	2:L:1443:GLU:HA	2.17	0.44
2:L:1820:ASP:O	2:L:1823:SER:HB3	2.17	0.44
2:L:204:ILE:CG2	2:L:312:VAL:HG11	2.47	0.44
2:L:290:VAL:HG11	2:L:315:LEU:CD1	2.47	0.44
2:L:276:LEU:HD21	2:L:296:ALA:HA	1.99	0.44
2:L:460:ILE:CD1	2:L:487:ILE:HD11	2.46	0.44
2:L:48:LEU:HB2	2:L:79:TYR:OH	2.18	0.44
2:L:511:THR:O	2:L:512:HIS:CD2	2.70	0.44
2:L:52:PHE:HB2	2:L:82:PHE:CE2	2.53	0.44
2:L:846:THR:HG22	2:L:855:ILE:C	2.37	0.44
2:L:871:ARG:HB2	2:L:909:ASP:HB2	1.98	0.44
1:A:1219:GLY:HA2	1:A:1272:PRO:HD2	1.99	0.44
1:A:613:PRO:C	1:A:615:LEU:N	2.70	0.44
1:B:1080:LEU:HA	1:B:1080:LEU:HD23	1.87	0.44
1:B:1186:VAL:HG12	1:B:1187:THR:N	2.31	0.44
1:B:330:LYS:HG3	1:B:333:ARG:HH12	1.80	0.44
1:C:1426:GLU:HA	1:C:1429:ARG:HB2	1.98	0.44
1:C:1592:ALA:O	1:C:1593:ASP:C	2.54	0.44
1:C:93:GLU:HA	1:C:94:PRO:HD3	1.83	0.44
1:D:1107:GLU:HA	1:D:1108:PRO:HD3	1.72	0.44
1:D:1154:LEU:HD23	1:D:1154:LEU:HA	1.74	0.44
1:D:1446:GLU:HA	1:D:1449:ALA:HB3	1.98	0.44
1:D:1504:ARG:NH2	1:D:1545:LEU:O	2.50	0.44
1:D:1686:PRO:HB2	1:D:1713:PHE:CE1	2.53	0.44
1:E:409:ASP:HB2	1:E:439:ARG:HH12	1.83	0.44
1:E:553:ARG:C	1:E:555:GLN:H	2.21	0.44
1:E:570:TYR:CD2	1:E:574:ILE:HD11	2.51	0.44
1:F:1102:ILE:HD13	1:F:1106:LEU:CD2	2.48	0.44
1:F:21:GLN:HE22	2:L:1841:TYR:HE1	1.64	0.44
1:F:450:TYR:C	1:F:450:TYR:CD2	2.90	0.44
1:F:452:ILE:HD13	1:F:452:ILE:HA	1.89	0.44
1:F:673:LEU:HD21	1:F:884:MET:HE3	1.99	0.44
1:F:902:ASN:C	1:F:904:GLY:H	2.20	0.44
2:G:821:GLU:OE2	2:G:1083:ILE:HG13	2.16	0.44
2:G:1693:VAL:HA	2:G:1834:ALA:O	2.18	0.44
2:G:38:PRO:HD2	2:G:104:LEU:CD1	2.46	0.44
2:G:916:GLY:O	2:G:924:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1350:ILE:HD13	2:H:1610:MET:SD	2.57	0.44
2:H:1770:ASN:HB2	2:H:1776:LYS:CE	2.41	0.44
2:H:1384:PRO:CB	2:H:1829:ARG:HH12	2.30	0.44
2:H:501:TRP:NE1	2:H:528:THR:CG2	2.77	0.44
2:H:611:THR:HG21	2:H:817:MET:CE	2.46	0.44
2:H:990:TYR:N	2:H:991:PRO:CD	2.80	0.44
2:I:1219:VAL:HB	2:I:1231:THR:HB	1.99	0.44
2:I:1351:VAL:CG1	2:I:1352:VAL:N	2.80	0.44
2:I:1473:PHE:HE1	2:I:1513:VAL:HG21	1.81	0.44
2:I:1481:ILE:O	2:I:1481:ILE:HG13	2.18	0.44
2:I:1933:LEU:HB3	2:I:1987:VAL:HB	1.99	0.44
2:I:690:LEU:HD22	2:I:691:THR:H	1.82	0.44
2:I:704:GLU:HA	2:I:704:GLU:OE1	2.17	0.44
2:I:906:LEU:HA	2:I:906:LEU:HD22	1.80	0.44
2:I:929:MET:CE	2:I:934:VAL:HA	2.47	0.44
2:J:621:THR:OG1	2:J:1083:ILE:HD13	2.18	0.44
2:J:1709:TYR:HE2	2:J:1716:LYS:HE2	1.82	0.44
2:J:1749:PHE:CD2	2:J:1758:ARG:HB3	2.53	0.44
2:J:268:LEU:HB3	2:J:270:ARG:HD3	1.98	0.44
2:J:265:CYS:SG	2:J:275:LEU:HB2	2.57	0.44
2:J:866:HIS:HB3	2:J:1068:GLN:O	2.17	0.44
2:K:1047:LEU:H	2:K:1047:LEU:HD12	1.82	0.44
2:K:1050:SER:HA	2:K:1064:THR:HG21	1.99	0.44
2:K:1146:LEU:HD11	2:K:1160:PHE:CE2	2.52	0.44
2:K:1229:VAL:CG1	2:K:1230:LYS:N	2.81	0.44
2:K:1358:THR:O	2:K:1361:ILE:HG13	2.18	0.44
2:K:153:PRO:HB3	2:K:270:ARG:NH1	2.32	0.44
2:K:1752:PRO:O	2:K:1756:ILE:HG23	2.17	0.44
2:K:1865:LEU:O	2:K:1869:VAL:HG22	2.17	0.44
2:K:271:GLU:H	2:K:274:GLU:CG	2.30	0.44
2:K:287:GLN:O	2:K:287:GLN:HG2	2.18	0.44
2:K:342:ASN:HB3	2:K:406:ARG:HD3	1.99	0.44
2:K:541:LEU:HG	2:K:552:VAL:CG1	2.48	0.44
2:K:609:THR:CB	2:K:610:PRO:HD3	2.46	0.44
2:K:685:VAL:HG13	2:K:686:PRO:HD2	1.99	0.44
2:K:743:TRP:CD1	2:K:761:ILE:HD11	2.52	0.44
2:K:990:TYR:N	2:K:991:PRO:CD	2.81	0.44
2:L:1371:LEU:O	2:L:1590:ILE:HD11	2.17	0.44
2:L:1969:LEU:HA	2:L:1972:ILE:HD12	2.00	0.44
2:L:202:THR:HA	2:L:228:LEU:HD11	1.98	0.44
2:L:399:TYR:CE2	2:L:403:LEU:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:416:GLN:HE22	2:L:425:LYS:H	1.66	0.44
2:L:668:ARG:HH21	2:L:1023:ARG:HH12	1.66	0.44
1:A:1420:TYR:O	1:A:1424:GLN:HG2	2.18	0.44
1:A:1672:GLY:O	1:A:1676:ASN:N	2.50	0.44
1:A:486:VAL:HG13	1:A:648:LEU:H	1.80	0.44
1:B:1249:ILE:H	1:B:1249:ILE:HG13	1.31	0.44
1:C:1011:ARG:HH11	1:C:1012:TRP:HA	1.81	0.44
1:C:1172:ARG:HH11	1:C:1172:ARG:HG3	1.83	0.44
1:C:450:TYR:CE1	1:C:1551:ASN:HB2	2.53	0.44
1:C:844:ILE:H	1:C:844:ILE:HD12	1.82	0.44
1:C:883:LEU:N	1:C:883:LEU:HD23	2.32	0.44
1:D:1042:LEU:O	1:D:1043:LYS:HB2	2.17	0.44
1:D:1148:LEU:HA	1:D:1148:LEU:HD23	1.67	0.44
1:D:1171:ARG:HD3	1:D:1177:GLU:OE1	2.16	0.44
1:D:942:VAL:O	2:J:1536:HIS:HB2	2.17	0.44
1:E:1065:LYS:O	1:E:1069:GLU:HB2	2.18	0.44
1:E:1275:THR:HA	1:E:1276:PRO:HD3	1.58	0.44
1:E:1493:PHE:CE2	1:E:1509:THR:HG22	2.52	0.44
1:E:679:LYS:HG2	1:E:708:GLN:HB3	1.99	0.44
1:F:1160:VAL:HG11	1:F:1337:PRO:HB3	1.99	0.44
1:F:1553:VAL:HG22	1:F:1604:TYR:O	2.17	0.44
1:F:687:PHE:C	1:F:687:PHE:CD2	2.91	0.44
2:G:1802:ALA:CB	2:G:1804:GLN:HE22	2.29	0.44
2:G:1930:ALA:HB1	2:G:2004:PRO:HB3	1.99	0.44
2:G:1067:LEU:HB3	4:G:2101:FMN:HM82	2.00	0.44
2:G:342:ASN:HB3	2:G:406:ARG:HD3	1.97	0.44
2:G:528:THR:HA	2:G:531:ASN:ND2	2.33	0.44
2:G:609:THR:CG2	2:G:633:GLY:HA3	2.46	0.44
2:G:754:PHE:N	2:G:754:PHE:CD1	2.85	0.44
2:G:792:LEU:HD23	2:G:1094:HIS:ND1	2.32	0.44
2:G:988:GLU:HA	2:G:989:PRO:HD3	1.70	0.44
2:H:1643:VAL:HG13	2:H:1649:ILE:HD11	1.99	0.44
2:H:1746:THR:CB	2:H:1792:THR:HG23	2.43	0.44
2:H:186:LEU:HD21	2:H:256:VAL:HG22	1.99	0.44
2:H:1939:LEU:O	2:H:1943:LEU:HG	2.18	0.44
2:H:1966:ARG:HG3	2:H:1967:ALA:N	2.33	0.44
2:H:1886:VAL:HG22	2:H:1995:THR:HG22	1.99	0.44
2:H:604:MET:HE1	2:H:777:VAL:HG11	1.99	0.44
2:H:915:PHE:CD2	2:H:915:PHE:O	2.70	0.44
2:H:938:MET:HE2	2:H:959:THR:HG22	1.99	0.44
2:I:1231:THR:CG2	2:I:1595:VAL:HG11	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1336:VAL:HG12	2:I:1336:VAL:O	2.17	0.44
2:H:327:PRO:N	2:I:1338:ARG:NH2	2.66	0.44
2:I:155:ASP:N	2:I:155:ASP:OD1	2.51	0.44
2:I:1728:GLU:HG2	2:I:1753:ARG:HE	1.82	0.44
2:I:202:THR:O	2:I:206:GLU:HG3	2.18	0.44
2:I:610:PRO:HD2	4:I:2101:FMN:C6	2.24	0.44
2:I:719:GLY:O	2:I:755:GLU:HG3	2.17	0.44
2:J:45:ALA:HB2	2:J:101:VAL:HG22	2.00	0.44
2:J:611:THR:HG22	2:J:1051:GLU:OE2	2.18	0.44
2:J:1203:TYR:O	2:J:1219:VAL:HA	2.17	0.44
2:J:1325:VAL:HG13	2:J:1330:ASN:O	2.17	0.44
2:J:1353:GLY:HA2	2:J:1397:THR:HG21	2.00	0.44
2:J:197:VAL:HA	2:J:262:MET:HE1	1.99	0.44
2:J:728:ILE:O	2:J:732:LYS:HG3	2.17	0.44
2:J:796:TRP:HH2	2:J:805:MET:HE1	1.76	0.44
2:K:1977:ARG:HD3	2:K:1978:LYS:HG3	1.98	0.44
2:K:606:ALA:HB2	2:K:811:MET:CG	2.47	0.44
2:K:690:LEU:HD22	2:K:691:THR:H	1.83	0.44
2:K:617:PHE:HE1	2:K:819:ALA:HB3	1.82	0.44
2:K:826:LYS:HD3	2:K:826:LYS:HA	1.79	0.44
2:L:821:GLU:OE2	2:L:1083:ILE:HG13	2.17	0.44
2:L:1645:PRO:O	2:L:1646:ASN:HB2	2.18	0.44
2:L:1981:GLU:O	2:L:1984:PRO:HG3	2.16	0.44
1:A:407:ARG:NH1	1:A:1606:VAL:HG23	2.32	0.44
1:A:687:PHE:O	1:A:687:PHE:HD2	2.01	0.44
1:B:1104:GLN:OE1	1:D:1107:GLU:CB	2.60	0.44
1:B:1171:ARG:HD3	1:B:1177:GLU:OE1	2.18	0.44
1:B:1275:THR:HA	1:B:1276:PRO:HD3	1.60	0.44
1:B:1303:LEU:HA	1:B:1303:LEU:HD23	1.61	0.44
1:B:1504:ARG:NH2	1:B:1545:LEU:O	2.50	0.44
1:B:535:TYR:HH	1:B:630:LYS:HE3	1.74	0.44
1:B:6:GLU:HA	2:H:2050:ILE:HD11	2.00	0.44
1:B:973:TRP:NE1	1:B:1648:LYS:HB2	2.31	0.44
1:C:1005:TRP:HE1	1:C:1561:LEU:HD22	1.78	0.44
1:C:526:MET:HE3	1:C:614:PHE:CB	2.48	0.44
1:C:560:LYS:O	1:C:564:LEU:HB2	2.18	0.44
1:D:1078:ILE:HG23	1:D:1352:MET:HE3	1.99	0.44
1:D:1301:VAL:HG23	1:D:1363:MET:HG3	2.00	0.44
1:D:1514:ILE:CD1	1:D:1545:LEU:HB3	2.48	0.44
1:E:1522:PHE:CD2	1:E:1534:GLU:HB3	2.52	0.44
1:E:1686:PRO:HD2	1:E:1687:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1099:GLU:HG2	1:F:1149:LEU:HD21	1.98	0.44
1:F:968:PRO:HD2	1:F:1374:PRO:HB3	1.99	0.44
1:F:1546:GLY:O	1:F:1547:ARG:C	2.56	0.44
2:G:1026:LYS:HG3	3:G:2102:NAP:N7A	2.32	0.44
2:G:596:ARG:HD3	2:G:1119:ARG:HG3	1.99	0.44
2:G:1217:ILE:O	2:G:1233:GLU:HA	2.17	0.44
2:G:468:PRO:HA	2:G:479:ARG:HD3	2.00	0.44
2:G:52:PHE:HB2	2:G:82:PHE:CE2	2.53	0.44
2:G:600:VAL:HG13	2:G:601:PRO:N	2.32	0.44
2:G:724:ILE:O	2:G:727:VAL:HG23	2.17	0.44
2:G:737:PHE:HA	2:G:738:PRO:HD3	1.85	0.44
2:G:855:ILE:HB	2:G:869:ALA:HB2	1.99	0.44
2:G:907:ASN:HA	2:G:913:VAL:HG13	2.00	0.44
2:H:1945:ILE:O	2:H:1949:GLN:HB2	2.18	0.44
2:H:779:GLY:HA3	2:H:811:MET:CE	2.46	0.44
2:I:1028:VAL:HG13	2:I:1030:PHE:CE2	2.52	0.44
2:I:186:LEU:HD11	2:I:255:LEU:HD23	1.99	0.44
2:I:1934:ARG:H	2:I:1934:ARG:HG3	1.62	0.44
4:I:2101:FMN:N1	4:I:2101:FMN:O2'	2.45	0.44
2:I:31:LEU:HB2	2:I:72:VAL:HG22	2.00	0.44
2:I:472:THR:HB	2:I:493:MET:HE3	1.99	0.44
2:I:743:TRP:CD2	2:I:761:ILE:HD11	2.52	0.44
2:I:77:ALA:O	2:I:139:ALA:HB1	2.18	0.44
2:I:818:THR:HA	2:I:829:LYS:HE2	1.99	0.44
2:J:1340:LYS:HG3	2:L:376:ARG:HH21	1.76	0.44
2:J:2009:PHE:C	2:J:2009:PHE:HD2	2.20	0.44
2:J:604:MET:HG3	2:J:627:HIS:O	2.18	0.44
2:J:854:VAL:HA	2:J:867:LYS:O	2.17	0.44
2:K:1248:GLU:OE2	2:K:1250:ARG:NE	2.47	0.44
2:K:1257:VAL:HA	2:K:1258:PRO:HD3	1.78	0.44
2:K:1465:ALA:O	2:K:1469:SER:HB3	2.18	0.44
2:K:187:ARG:NH2	2:K:230:TRP:O	2.50	0.44
2:K:608:MET:HA	4:K:2101:FMN:C5A	2.46	0.44
2:K:60:THR:HG22	2:K:62:GLU:HG3	1.99	0.44
2:L:1047:LEU:HD12	2:L:1047:LEU:H	1.82	0.44
2:L:80:ILE:HG12	2:L:105:ILE:CG2	2.47	0.44
2:L:596:ARG:HD3	2:L:1119:ARG:HG3	2.00	0.44
2:L:1123:ALA:O	2:L:1126:GLU:CG	2.57	0.44
2:L:1361:ILE:HG22	2:L:1435:TYR:OH	2.18	0.44
2:L:1883:MET:HB2	2:L:2001:ILE:HD12	1.98	0.44
2:L:716:PHE:HD1	2:L:727:VAL:CG1	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1171:ARG:HD3	1:A:1177:GLU:OE1	2.17	0.44
1:A:1565:PRO:HG3	1:A:1572:TRP:CH2	2.52	0.44
1:A:1648:LYS:O	1:A:1652:GLU:HB2	2.17	0.44
1:A:330:LYS:HG3	1:A:333:ARG:HH12	1.79	0.44
1:B:1037:ASN:CG	1:B:1674:ILE:HG23	2.38	0.44
1:B:1102:ILE:HD11	1:B:1148:LEU:HG	1.98	0.44
1:B:343:ILE:O	1:B:347:LEU:HG	2.16	0.44
1:B:413:MET:O	1:B:416:ASP:HB2	2.18	0.44
1:B:579:MET:CE	1:E:612:ILE:HD12	2.48	0.44
1:B:613:PRO:O	1:B:615:LEU:N	2.50	0.44
1:C:1078:ILE:HA	1:C:1162:GLY:HA2	2.00	0.44
1:C:452:ILE:HG22	1:C:453:ASP:N	2.31	0.44
1:C:914:LEU:O	1:C:917:LYS:HB3	2.16	0.44
1:D:524:LYS:O	1:D:525:GLN:C	2.55	0.44
1:D:539:THR:HA	1:D:542:GLN:HE21	1.82	0.44
1:D:612:ILE:HG12	1:D:628:TYR:CD2	2.53	0.44
1:E:1580:VAL:O	1:E:1617:ILE:HD11	2.17	0.44
1:E:1674:ILE:HG22	1:E:1675:ASN:OD1	2.18	0.44
1:E:363:GLU:O	1:E:366:LYS:HB2	2.17	0.44
1:E:628:TYR:CD1	1:E:629:SER:N	2.86	0.44
1:E:746:PHE:CG	3:E:1901:NAP:H4D	2.53	0.44
1:E:889:VAL:O	1:E:893:GLN:HG3	2.18	0.44
1:E:997:THR:HG23	1:E:1361:VAL:HG22	1.99	0.44
1:F:1219:GLY:HA2	1:F:1272:PRO:HD2	2.00	0.44
1:F:1514:ILE:CD1	1:F:1545:LEU:HB3	2.48	0.44
1:F:655:ALA:CB	1:F:742:TYR:HB2	2.48	0.44
1:F:857:ASN:HA	1:F:860:ALA:HB2	1.98	0.44
2:G:1207:THR:O	2:G:1215:THR:HG23	2.17	0.44
2:G:1845:VAL:CG2	2:G:1856:LEU:HD22	2.42	0.44
2:G:2008:THR:HG22	2:G:2011:ARG:HE	1.83	0.44
2:G:489:GLU:O	2:G:492:ARG:HG2	2.17	0.44
2:G:942:MET:HE2	2:G:955:LEU:HB3	1.99	0.44
2:H:1586:ASP:OD1	2:H:1588:ASN:HB2	2.17	0.44
2:H:2003:VAL:HA	2:H:2004:PRO:HD3	1.85	0.44
2:H:310:ARG:HH12	2:H:459:LYS:H	1.66	0.44
2:H:613:VAL:H	2:H:614:PRO:HD3	1.82	0.44
2:H:705:TYR:HA	2:H:709:LEU:HD21	1.98	0.44
2:H:912:LYS:HE2	2:H:1028:VAL:O	2.18	0.44
2:I:1163:LEU:HA	2:I:1163:LEU:HD12	1.83	0.44
2:I:1515:LEU:CB	2:I:1525:VAL:HG21	2.47	0.44
2:I:174:GLY:H	2:I:517:GLY:CA	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:709:LEU:HD23	2:I:709:LEU:N	2.28	0.44
2:J:1175:MET:O	2:J:1192:LEU:HD12	2.17	0.44
2:J:1192:LEU:HD22	2:J:1196:PHE:CE1	2.53	0.44
2:J:1234:ILE:HG22	2:J:1242:ILE:HG22	1.99	0.44
2:J:1116:PHE:O	2:J:1270:GLY:HA3	2.18	0.44
2:J:1678:VAL:O	2:J:1679:LEU:HD23	2.17	0.44
2:J:48:LEU:HB2	2:J:79:TYR:OH	2.18	0.44
2:J:762:LEU:HD23	2:J:805:MET:HE1	2.00	0.44
2:J:865:ILE:HG22	2:J:867:LYS:HG3	2.00	0.44
2:K:1945:ILE:O	2:K:1949:GLN:HB2	2.18	0.44
2:K:382:LEU:HG	2:K:390:VAL:HB	2.00	0.44
2:K:38:PRO:HD2	2:K:104:LEU:CD1	2.45	0.44
2:K:506:VAL:O	2:K:506:VAL:CG1	2.63	0.44
2:K:52:PHE:HB2	2:K:82:PHE:CE2	2.52	0.44
2:K:718:PRO:HG2	2:K:741:LEU:CD1	2.48	0.44
2:K:617:PHE:CD1	2:K:822:ALA:CA	3.01	0.44
2:K:866:HIS:HB3	2:K:1068:GLN:O	2.18	0.44
2:L:1028:VAL:HA	2:L:1029:PRO:HD3	1.73	0.44
2:L:1179:GLU:N	2:L:1179:GLU:OE1	2.47	0.44
2:L:1305:LEU:HD23	2:L:1366:ILE:HD11	2.00	0.44
2:L:1807:GLN:HB3	2:L:1860:VAL:CG1	2.47	0.44
2:L:411:PRO:HD2	2:L:414:LEU:HD11	1.98	0.44
2:L:26:LEU:HD23	2:L:49:LYS:HG3	2.00	0.44
2:L:617:PHE:HE1	2:L:819:ALA:HB3	1.83	0.44
2:L:990:TYR:N	2:L:991:PRO:CD	2.80	0.44
1:A:1491:ASN:H	1:A:1491:ASN:ND2	2.14	0.44
1:A:544:ASP:HB3	1:F:569:LEU:HD22	2.00	0.44
1:A:612:ILE:HD11	1:F:579:MET:HB3	2.00	0.44
1:B:1491:ASN:N	1:B:1491:ASN:ND2	2.65	0.44
1:B:383:TYR:O	1:B:387:ILE:HG12	2.18	0.44
1:B:452:ILE:HG22	1:B:453:ASP:N	2.31	0.44
1:B:726:VAL:HG21	1:B:780:ALA:HB3	1.99	0.44
1:B:902:ASN:C	1:B:904:GLY:H	2.21	0.44
1:C:1011:ARG:NH1	1:C:1012:TRP:HA	2.32	0.44
1:C:1153:ALA:O	1:F:1121:ARG:NH1	2.51	0.44
1:C:1293:THR:HG23	1:C:1298:LYS:HB2	1.99	0.44
1:C:472:GLN:HE21	1:C:472:GLN:HA	1.82	0.44
1:C:667:ALA:O	1:C:671:GLN:HG3	2.18	0.44
1:D:1102:ILE:H	1:D:1102:ILE:HG13	1.64	0.44
1:D:40:ARG:HH21	1:D:74:VAL:HG22	1.82	0.44
1:D:801:LEU:HD13	1:D:822:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1160:VAL:HG11	1:E:1337:PRO:HB3	1.99	0.44
1:E:445:LEU:O	1:E:448:MET:HB2	2.18	0.44
1:E:759:ILE:HG12	1:E:813:LEU:HD23	2.00	0.44
1:E:498:THR:CG2	1:E:858:LEU:HA	2.42	0.44
1:F:1171:ARG:HD3	1:F:1177:GLU:OE1	2.18	0.44
1:F:1404:ALA:HA	1:F:1501:ALA:HB1	2.00	0.44
1:F:533:SER:O	1:F:611:THR:HG22	2.18	0.44
1:F:880:LEU:C	1:F:882:GLY:N	2.70	0.44
2:G:1769:VAL:HG13	2:G:1774:SER:C	2.38	0.44
2:G:1721:ARG:NH1	2:G:1854:GLU:OE2	2.51	0.44
2:G:1945:ILE:O	2:G:1949:GLN:HB2	2.17	0.44
2:G:248:VAL:O	2:G:252:LEU:HB2	2.18	0.44
2:H:1031:VAL:HG22	2:H:1041:TRP:HB3	1.98	0.44
2:H:113:PHE:CD1	2:H:113:PHE:N	2.85	0.44
2:H:1331:THR:O	2:H:1331:THR:HG22	2.18	0.44
2:H:138:ARG:HB2	2:H:192:THR:HA	1.99	0.44
2:H:462:ALA:HB3	2:H:483:ASP:HA	1.99	0.44
2:H:76:VAL:HG11	2:H:109:PHE:HD1	1.83	0.44
2:H:617:PHE:HE1	2:H:819:ALA:HB3	1.83	0.44
2:I:1645:PRO:O	2:I:1646:ASN:HB2	2.16	0.44
2:I:1883:MET:HB2	2:I:2001:ILE:HD12	2.00	0.44
2:I:223:LYS:HB3	2:I:242:TYR:CZ	2.53	0.44
2:J:1002:GLU:C	2:J:1004:SER:H	2.19	0.44
2:J:1299:VAL:HG13	2:J:1301:PHE:CE1	2.53	0.44
2:J:1769:VAL:HG13	2:J:1774:SER:C	2.38	0.44
2:J:1905:GLU:O	2:J:1908:ALA:HB3	2.17	0.44
2:J:169:ILE:HG22	2:J:279:PHE:CD2	2.52	0.44
2:J:444:LEU:HA	2:J:444:LEU:HD23	1.76	0.44
2:J:613:VAL:HG13	2:J:614:PRO:CD	2.47	0.44
2:J:664:TYR:C	2:J:666:ASN:H	2.19	0.44
2:J:930:THR:CG2	2:J:933:GLU:H	2.27	0.44
2:J:937:ARG:CZ	2:J:941:LEU:HD11	2.47	0.44
2:J:976:GLN:HA	2:J:977:PRO:HD3	1.88	0.44
2:K:1102:LEU:HD23	2:K:1102:LEU:HA	1.83	0.44
2:K:1116:PHE:O	2:K:1270:GLY:HA3	2.17	0.44
2:K:1120:ILE:HD11	2:K:1173:HIS:NE2	2.32	0.44
2:K:1204:VAL:HG22	2:K:1219:VAL:HG22	2.00	0.44
2:K:1637:VAL:HG11	2:K:1679:LEU:CD1	2.39	0.44
2:K:169:ILE:HG22	2:K:279:PHE:CD2	2.51	0.44
2:K:381:SER:OG	2:K:392:THR:HG23	2.16	0.44
2:K:173:PHE:CE2	2:K:516:PHE:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:937:ARG:HG3	2:K:941:LEU:HD12	1.99	0.44
2:L:1768:THR:O	2:L:1776:LYS:HB2	2.17	0.44
2:L:2058:VAL:CG1	2:L:2067:ILE:HD12	2.48	0.44
2:L:858:LEU:CD2	2:L:864:PRO:HA	2.47	0.44
1:A:1338:GLY:C	1:A:1340:MET:H	2.19	0.44
1:A:1577:CYS:SG	1:A:1622:VAL:HG12	2.58	0.44
1:A:474:ILE:O	1:A:478:LYS:HG3	2.17	0.44
1:C:1102:ILE:HD11	1:C:1148:LEU:HG	2.00	0.44
1:C:1177:GLU:O	1:C:1180:ILE:HB	2.17	0.44
1:C:1171:ARG:HD3	1:C:1177:GLU:OE1	2.17	0.44
1:C:1674:ILE:HG22	1:C:1675:ASN:OD1	2.18	0.44
1:E:491:SER:O	1:E:493:PRO:HD3	2.18	0.44
1:E:902:ASN:C	1:E:904:GLY:H	2.21	0.44
1:E:960:ARG:NH1	1:E:960:ARG:HG3	2.33	0.44
1:F:973:TRP:NE1	1:F:1648:LYS:HB2	2.32	0.44
1:F:1651:TYR:CE2	1:F:1655:CYS:SG	3.11	0.44
1:F:1698:ASN:HA	1:F:1699:PRO:HD3	1.81	0.44
1:F:628:TYR:CD1	1:F:629:SER:N	2.85	0.44
1:F:853:MET:HG2	1:F:856:ASN:ND2	2.32	0.44
2:G:1443:GLU:OE1	2:G:1443:GLU:HA	2.18	0.44
2:G:1551:ILE:HG22	2:G:1552:GLU:N	2.33	0.44
2:G:613:VAL:N	2:G:614:PRO:HD3	2.33	0.44
2:G:746:GLY:O	2:G:843:TRP:NE1	2.50	0.44
2:H:1851:MET:HB3	2:H:1851:MET:HE3	1.83	0.44
1:B:23:ALA:HA	2:H:2007:SER:O	2.17	0.44
2:H:1067:LEU:HB3	4:H:2101:FMN:HM82	2.00	0.44
2:H:38:PRO:HD2	2:H:104:LEU:CD1	2.47	0.44
2:H:521:VAL:O	2:H:521:VAL:HG12	2.18	0.44
2:H:937:ARG:NE	2:H:941:LEU:CD1	2.81	0.44
2:I:1099:LEU:HD12	2:I:1103:TYR:CB	2.47	0.44
2:I:1602:LEU:HB3	2:I:1604:GLY:H	1.82	0.44
4:I:2101:FMN:H1'2	4:I:2101:FMN:H9	1.90	0.44
2:J:1305:LEU:HD23	2:J:1366:ILE:HD11	1.99	0.44
2:J:173:PHE:CE2	2:J:516:PHE:HB2	2.53	0.44
2:J:1977:ARG:CD	2:J:1978:LYS:HG3	2.47	0.44
2:J:223:LYS:HB3	2:J:242:TYR:CZ	2.52	0.44
2:J:376:ARG:HH22	2:K:1340:LYS:HE2	1.82	0.44
2:J:411:PRO:HD2	2:J:414:LEU:HD11	1.99	0.44
2:J:489:GLU:O	2:J:492:ARG:HG2	2.18	0.44
2:J:608:MET:HA	4:J:2101:FMN:C5A	2.47	0.44
2:J:729:ASN:N	2:J:729:ASN:HD22	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:686:PRO:HG3	2:K:1185:HIS:O	2.17	0.44
2:K:1171:TRP:CH2	2:K:1236:LEU:HB2	2.53	0.44
2:K:1844:LEU:HD22	2:K:1850:VAL:HG21	1.99	0.44
2:K:1910:VAL:HG11	2:K:1973:ILE:HG21	1.98	0.44
2:K:196:PHE:N	2:K:196:PHE:HD2	2.16	0.44
2:K:1985:GLN:C	2:K:1987:VAL:N	2.68	0.44
2:K:461:PRO:HB3	2:K:483:ASP:O	2.17	0.44
2:L:1031:VAL:HG22	2:L:1041:TRP:HB3	2.00	0.44
2:L:781:GLY:CA	2:L:1071:VAL:HG13	2.45	0.44
2:L:1594:ARG:NH1	2:L:1595:VAL:HG13	2.33	0.44
2:L:459:LYS:HA	2:L:485:ASP:CG	2.38	0.44
2:L:704:GLU:OE1	2:L:704:GLU:HA	2.17	0.44
2:L:723:ALA:O	2:L:726:GLN:HB2	2.17	0.44
1:A:1160:VAL:C	1:A:1352:MET:HE1	2.38	0.44
1:A:1703:VAL:HG22	1:A:1712:LYS:C	2.37	0.44
1:A:407:ARG:HG3	1:A:407:ARG:H	1.59	0.44
1:A:484:PRO:HA	1:A:485:PRO:HD3	1.80	0.44
1:A:553:ARG:C	1:A:555:GLN:H	2.21	0.44
1:A:526:MET:CE	1:A:614:PHE:HB3	2.48	0.44
1:B:1179:ILE:O	1:B:1183:VAL:HG23	2.18	0.44
1:B:535:TYR:CE1	1:B:610:GLU:HB3	2.53	0.44
1:D:1280:CYS:HB2	1:D:1626:GLY:HA2	2.00	0.44
1:D:28:TRP:HE1	1:D:32:GLN:NE2	2.16	0.44
1:D:553:ARG:C	1:D:555:GLN:H	2.20	0.44
1:E:1079:ARG:HG2	1:E:1079:ARG:NH1	2.14	0.44
1:E:1470:ARG:HA	1:E:1470:ARG:HD3	1.77	0.44
1:E:1494:TRP:CG	1:E:1505:GLY:HA3	2.53	0.44
1:E:452:ILE:HG22	1:E:453:ASP:N	2.33	0.44
1:E:914:LEU:O	1:E:917:LYS:HB3	2.18	0.44
2:G:1000:TYR:HA	2:G:1001:PRO:HD2	1.69	0.44
2:G:835:ALA:HB3	2:G:1073:ALA:HB1	2.00	0.44
2:G:1751:GLY:O	2:G:1755:LYS:HG2	2.18	0.44
2:G:2005:PHE:CA	2:G:2010:LEU:HD11	2.48	0.44
2:G:472:THR:CG2	2:G:499:VAL:HG22	2.48	0.44
2:G:541:LEU:HG	2:G:552:VAL:CG1	2.48	0.44
2:H:1149:ALA:HA	2:H:1150:PRO:HD3	1.89	0.44
2:H:664:TYR:C	2:H:666:ASN:H	2.22	0.44
2:H:765:TYR:CD2	2:H:805:MET:HG2	2.52	0.44
2:H:932:ALA:O	2:H:935:VAL:HG13	2.18	0.44
2:I:1820:ASP:O	2:I:1823:SER:HB3	2.17	0.44
2:I:1977:ARG:CD	2:I:1978:LYS:HG3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1977:ARG:HD3	2:I:1978:LYS:HG3	1.99	0.44
2:I:459:LYS:HA	2:I:485:ASP:CG	2.37	0.44
2:I:676:LEU:C	2:I:676:LEU:HD13	2.38	0.44
2:I:31:LEU:HD13	2:I:75:LEU:HG	1.99	0.44
2:J:1048:TRP:NE1	2:J:1049:GLN:HG2	2.29	0.44
2:J:1314:GLU:O	2:J:1394:VAL:HA	2.18	0.44
2:J:1351:VAL:CG2	2:J:1584:SER:HA	2.47	0.44
2:J:1738:VAL:HA	2:J:1800:LEU:HD13	1.99	0.44
1:D:47:ILE:CD1	2:J:1818:PHE:HD1	2.31	0.44
2:J:1865:LEU:O	2:J:1869:VAL:HG22	2.18	0.44
2:K:1969:LEU:HA	2:K:1972:ILE:HD12	1.99	0.44
2:K:1981:GLU:O	2:K:1984:PRO:HG3	2.18	0.44
2:K:2064:SER:OG	2:K:2067:ILE:HB	2.18	0.44
2:K:656:ARG:NH1	2:K:656:ARG:CG	2.80	0.44
2:K:704:GLU:OE1	2:K:704:GLU:HA	2.18	0.44
2:K:754:PHE:N	2:K:754:PHE:CD1	2.86	0.44
2:L:1871:VAL:HG21	2:L:2003:VAL:HA	2.00	0.44
2:L:226:ASP:OD2	2:L:229:GLN:HB2	2.18	0.44
2:L:187:ARG:NH2	2:L:234:PRO:HA	2.33	0.44
2:L:174:GLY:HA2	2:L:524:ILE:CG1	2.48	0.44
2:L:580:LEU:O	2:L:581:VAL:HG23	2.18	0.44
2:L:617:PHE:CD1	2:L:822:ALA:CA	3.01	0.44
1:A:1057:GLU:HA	1:A:1058:PRO:HD3	1.87	0.43
1:A:715:ASN:ND2	3:A:1901:NAP:H62A	2.16	0.43
1:A:414:TYR:C	1:A:414:TYR:CD2	2.91	0.43
1:A:427:ARG:O	1:A:430:VAL:HB	2.17	0.43
1:B:405:TRP:CH2	1:B:1609:SER:HB3	2.53	0.43
1:B:415:TYR:CD2	1:B:1614:THR:HA	2.53	0.43
1:C:1102:ILE:HD13	1:C:1106:LEU:CD2	2.48	0.43
1:C:620:LYS:HE3	1:C:626:TRP:CZ2	2.53	0.43
1:C:799:LEU:HD11	1:C:824:LEU:HD12	1.99	0.43
1:C:902:ASN:C	1:C:904:GLY:H	2.21	0.43
1:D:1102:ILE:CG2	1:D:1104:GLN:HG2	2.47	0.43
1:D:898:PHE:HD2	1:D:899:ALA:N	2.16	0.43
1:E:1042:LEU:O	1:E:1043:LYS:HB2	2.18	0.43
1:E:626:TRP:CD2	1:E:898:PHE:CD1	3.06	0.43
1:E:532:ILE:HG23	1:E:907:PHE:CB	2.46	0.43
1:F:1050:TRP:HA	1:F:1050:TRP:HE3	1.82	0.43
1:F:1507:LEU:HD23	1:F:1507:LEU:HA	1.84	0.43
1:F:1512:LEU:HD21	1:F:1641:TYR:CE2	2.53	0.43
1:F:452:ILE:HG22	1:F:453:ASP:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:889:VAL:O	1:F:893:GLN:HG3	2.17	0.43
2:G:582:LYS:HG3	2:G:1110:VAL:CG1	2.48	0.43
2:G:1871:VAL:HG21	2:G:2003:VAL:HA	2.00	0.43
1:A:30:GLU:CB	2:G:2045:ALA:HB1	2.48	0.43
2:G:48:LEU:H	2:G:48:LEU:HG	1.55	0.43
2:G:618:VAL:HG11	2:G:648:ILE:HD11	2.00	0.43
2:H:611:THR:HG22	2:H:1051:GLU:OE2	2.18	0.43
2:H:130:THR:HG23	2:H:546:ASP:HB3	1.99	0.43
2:H:595:SER:HB2	2:H:600:VAL:O	2.18	0.43
1:C:962:ASN:HD22	2:I:1006:GLN:HE22	1.64	0.43
2:I:1305:LEU:H	2:I:1305:LEU:CD1	2.29	0.43
2:I:1507:VAL:HG23	2:I:1530:TYR:HE2	1.82	0.43
2:I:1551:ILE:HG22	2:I:1552:GLU:N	2.32	0.43
2:I:1587:TYR:O	2:I:1588:ASN:C	2.56	0.43
2:I:1752:PRO:O	2:I:1756:ILE:HG23	2.18	0.43
2:I:1768:THR:O	2:I:1776:LYS:HB2	2.17	0.43
2:I:2044:THR:HG21	2:I:2054:TYR:OH	2.18	0.43
2:I:2058:VAL:CG1	2:I:2067:ILE:HD12	2.48	0.43
2:I:221:TYR:N	2:I:222:PRO:HD3	2.33	0.43
2:I:256:VAL:O	2:I:260:HIS:HD2	2.00	0.43
2:I:594:MET:SD	2:I:809:GLY:HA3	2.58	0.43
2:I:890:LYS:HB2	2:I:890:LYS:HE3	1.80	0.43
2:J:1537:GLY:O	2:J:1539:PRO:HD3	2.17	0.43
2:J:1725:HIS:CD2	2:J:1854:GLU:HB2	2.53	0.43
2:J:2009:PHE:C	2:J:2009:PHE:CD2	2.90	0.43
2:J:2050:ILE:HG12	2:J:2050:ILE:O	2.18	0.43
2:J:24:LEU:CD1	2:J:37:VAL:HG21	2.48	0.43
2:J:821:GLU:OE2	2:J:1083:ILE:HG13	2.18	0.43
2:K:911:GLN:NE2	2:K:1065:CYS:H	2.16	0.43
2:K:1342:PHE:CE2	2:K:1391:VAL:CG2	2.99	0.43
2:K:1750:GLY:N	2:K:1754:GLY:HA3	2.32	0.43
2:K:1982:ALA:C	2:K:1984:PRO:HD3	2.37	0.43
2:K:2005:PHE:CA	2:K:2010:LEU:HD11	2.47	0.43
2:K:221:TYR:N	2:K:222:PRO:HD3	2.33	0.43
2:K:272:PRO:HG2	2:K:300:THR:O	2.18	0.43
2:K:416:GLN:C	2:K:418:ARG:H	2.22	0.43
2:K:980:LEU:HB2	2:K:996:ILE:CD1	2.48	0.43
2:L:1194:ARG:HH21	2:L:1601:ASN:CG	2.21	0.43
2:L:1257:VAL:HA	2:L:1258:PRO:HD3	1.78	0.43
2:L:1551:ILE:HG22	2:L:1552:GLU:N	2.32	0.43
2:L:1886:VAL:HG22	2:L:1995:THR:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1972:ILE:H	2:L:1972:ILE:HG13	1.44	0.43
2:L:1067:LEU:CB	4:L:2101:FMN:HM82	2.48	0.43
2:L:882:LYS:HD3	2:L:898:ARG:CZ	2.48	0.43
1:A:1102:ILE:HD13	1:A:1106:LEU:CD2	2.48	0.43
1:A:1126:LYS:O	1:A:1127:VAL:HG23	2.19	0.43
1:A:1275:THR:HA	1:A:1276:PRO:HD3	1.57	0.43
1:A:1301:VAL:HG23	1:A:1363:MET:HG3	1.99	0.43
1:A:28:TRP:HE1	1:A:32:GLN:NE2	2.16	0.43
1:B:1031:MET:HE2	1:B:1031:MET:HB3	1.67	0.43
1:B:1623:THR:HG22	1:B:1633:GLN:HB2	2.00	0.43
1:B:1280:CYS:HB2	1:B:1626:GLY:HA2	2.00	0.43
1:B:883:LEU:HD23	1:B:883:LEU:N	2.33	0.43
1:C:1063:ASP:O	1:C:1064:VAL:C	2.56	0.43
1:C:12:THR:HG21	2:I:2066:LYS:HD3	1.99	0.43
1:C:1212:TYR:CD2	1:C:1371:MET:HG2	2.52	0.43
1:C:1480:ARG:NH2	1:F:1488:SER:HB2	2.34	0.43
1:C:414:TYR:CD2	1:C:414:TYR:C	2.91	0.43
1:D:1084:GLU:CD	1:D:1084:GLU:H	2.22	0.43
1:D:11:TYR:CG	2:J:2027:LYS:HG2	2.53	0.43
1:D:1307:PHE:HB3	1:D:1357:CYS:HB2	1.98	0.43
1:D:414:TYR:CE2	1:D:418:ILE:CD1	3.01	0.43
1:D:50:SER:HB2	1:D:52:THR:HG23	2.00	0.43
1:D:916:THR:HA	1:D:919:ARG:HB2	2.00	0.43
1:E:1219:GLY:CA	1:E:1272:PRO:HD2	2.48	0.43
1:F:1170:ALA:HB3	1:F:1188:LEU:HD13	2.00	0.43
1:F:1005:TRP:HE1	1:F:1561:LEU:CD2	2.31	0.43
1:F:492:ILE:H	1:F:492:ILE:HG13	1.51	0.43
1:F:498:THR:CG2	1:F:858:LEU:HA	2.43	0.43
2:G:1067:LEU:O	2:G:1068:GLN:HG2	2.18	0.43
2:G:1289:TYR:CD2	2:G:1370:LEU:HD23	2.53	0.43
2:G:1643:VAL:HG13	2:G:1649:ILE:HD11	2.00	0.43
2:G:1966:ARG:HG3	2:G:1967:ALA:N	2.33	0.43
2:G:664:TYR:C	2:G:666:ASN:H	2.22	0.43
1:B:1674:ILE:CD1	2:H:1011:GLN:HG3	2.41	0.43
2:H:1026:LYS:HG2	2:H:1027:PRO:HD2	2.00	0.43
2:H:1769:VAL:HG22	2:H:1775:ILE:CA	2.37	0.43
2:H:1951:ILE:H	2:H:1951:ILE:HD12	1.83	0.43
2:H:2021:LEU:HD22	2:H:2025:ILE:HD11	2.00	0.43
2:H:1067:LEU:CB	4:H:2101:FMN:HM82	2.49	0.43
2:H:279:PHE:HB2	2:H:467:ILE:HD12	2.00	0.43
2:H:594:MET:HB3	2:H:808:ASP:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:790:PRO:HA	2:H:795:SER:OG	2.18	0.43
2:I:1299:VAL:HA	2:I:1300:PRO:HD3	1.81	0.43
2:I:1342:PHE:HE2	2:I:1391:VAL:HB	1.83	0.43
2:I:1603:PRO:HB2	2:I:1644:LEU:HD21	2.00	0.43
2:I:1810:LEU:HA	2:I:1810:LEU:HD23	1.89	0.43
1:C:29:ILE:HG13	2:I:1920:TYR:O	2.18	0.43
2:I:545:ILE:HG22	2:I:555:LYS:HD3	2.00	0.43
2:I:613:VAL:N	2:I:614:PRO:HD3	2.32	0.43
2:J:1361:ILE:HG22	2:J:1435:TYR:OH	2.18	0.43
2:J:1602:LEU:HB3	2:J:1604:GLY:H	1.83	0.43
2:J:1706:MET:HE2	2:J:1738:VAL:CG1	2.48	0.43
2:J:1851:MET:HE3	2:J:1851:MET:HB3	1.86	0.43
2:J:1883:MET:HB2	2:J:2001:ILE:HD12	1.98	0.43
2:J:44:GLN:O	2:J:48:LEU:HG	2.18	0.43
2:J:929:MET:HE1	2:J:934:VAL:HG22	2.00	0.43
2:K:1293:TRP:CE2	2:K:1354:TRP:HZ2	2.36	0.43
2:K:1644:LEU:HB3	2:K:1645:PRO:CD	2.47	0.43
2:K:1873:ARG:NH1	2:K:2002:ASP:CB	2.81	0.43
2:K:138:ARG:HB3	2:K:192:THR:HG23	2.00	0.43
2:K:2073:ASN:O	2:K:2076:LYS:N	2.51	0.43
2:K:437:ALA:HA	2:K:438:PRO:HD3	1.80	0.43
2:K:788:THR:HG21	2:K:810:CYS:SG	2.57	0.43
2:L:1359:LYS:O	2:L:1362:PHE:HD1	2.01	0.43
2:L:1574:PRO:HD3	2:L:1611:TYR:HE2	1.82	0.43
2:L:1590:ILE:O	2:L:1597:SER:HB3	2.17	0.43
2:L:2017:PHE:CE2	2:L:2021:LEU:HD11	2.52	0.43
2:L:790:PRO:HA	2:L:795:SER:OG	2.18	0.43
1:A:27:ARG:H	1:A:27:ARG:HG2	1.38	0.43
1:B:1063:ASP:O	1:B:1064:VAL:C	2.55	0.43
1:B:1157:ASP:O	1:B:1327:ALA:HB3	2.17	0.43
1:B:407:ARG:NH1	1:B:1606:VAL:HG23	2.34	0.43
1:B:409:ASP:HB2	1:B:439:ARG:HH12	1.83	0.43
1:B:533:SER:O	1:B:611:THR:HG22	2.18	0.43
1:B:632:LEU:O	1:B:633:THR:C	2.56	0.43
1:B:498:THR:CG2	1:B:858:LEU:HA	2.43	0.43
1:D:1470:ARG:HD3	1:D:1470:ARG:HA	1.80	0.43
1:D:1599:MET:HA	1:D:1602:PHE:HD2	1.84	0.43
1:D:546:ARG:HH21	1:D:583:GLN:HG2	1.83	0.43
1:D:626:TRP:CD2	1:D:898:PHE:CD1	3.07	0.43
1:D:989:ASN:H	1:D:1491:ASN:ND2	2.03	0.43
1:B:340:LEU:HD12	1:E:347:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:427:ARG:HH11	1:E:492:ILE:HG12	1.82	0.43
1:E:533:SER:HB2	1:E:612:ILE:HB	1.99	0.43
1:E:533:SER:HB2	1:E:612:ILE:H	1.83	0.43
1:E:667:ALA:O	1:E:671:GLN:HG3	2.18	0.43
1:F:1218:VAL:HG13	1:F:1301:VAL:CG1	2.47	0.43
1:F:1218:VAL:O	1:F:1271:GLY:HA3	2.18	0.43
1:F:1495:ARG:O	1:F:1496:ARG:HB3	2.19	0.43
2:G:1102:LEU:HA	2:G:1102:LEU:HD23	1.78	0.43
1:A:81:TYR:HD1	2:G:1821:MET:HE3	1.84	0.43
2:G:465:LEU:HB2	2:G:479:ARG:CG	2.48	0.43
2:G:481:LEU:C	2:G:483:ASP:H	2.22	0.43
2:G:60:THR:HG22	2:G:62:GLU:HG3	2.00	0.43
2:G:718:PRO:HG2	2:G:741:LEU:HD11	1.99	0.43
2:G:883:ILE:HG22	2:G:884:PHE:CD2	2.54	0.43
2:H:1361:ILE:HG22	2:H:1435:TYR:OH	2.18	0.43
2:H:1499:LYS:CG	2:H:1500:ASN:H	2.26	0.43
2:H:1588:ASN:HA	2:H:1589:PRO:HD3	1.88	0.43
2:H:1709:TYR:CE2	2:H:1716:LYS:HG2	2.53	0.43
2:H:196:PHE:N	2:H:196:PHE:CD2	2.85	0.43
2:H:506:VAL:CG1	2:H:506:VAL:O	2.63	0.43
2:I:1179:GLU:N	2:I:1179:GLU:OE1	2.47	0.43
2:I:1366:ILE:HG22	2:I:1366:ILE:O	2.19	0.43
2:I:1537:GLY:O	2:I:1539:PRO:HD3	2.17	0.43
2:I:196:PHE:CD2	2:I:196:PHE:N	2.86	0.43
2:I:2009:PHE:O	2:I:2009:PHE:HD2	2.00	0.43
2:I:511:THR:O	2:I:512:HIS:CD2	2.71	0.43
2:I:608:MET:H	2:I:612:THR:CB	2.28	0.43
2:I:670:MET:HE2	2:I:670:MET:HB3	1.71	0.43
2:J:1175:MET:SD	2:J:1274:ILE:HD13	2.58	0.43
2:J:1769:VAL:HG22	2:J:1775:ILE:CA	2.38	0.43
2:J:196:PHE:N	2:J:196:PHE:HD2	2.15	0.43
2:J:290:VAL:HG11	2:J:315:LEU:CD1	2.48	0.43
2:J:481:LEU:C	2:J:483:ASP:H	2.22	0.43
2:J:743:TRP:CZ2	2:J:757:PHE:HA	2.50	0.43
2:K:45:ALA:HB2	2:K:101:VAL:HG22	2.01	0.43
2:K:1346:MET:HE2	2:K:1346:MET:HB3	1.78	0.43
2:K:1351:VAL:CG2	2:K:1584:SER:HA	2.48	0.43
2:K:1709:TYR:HE2	2:K:1716:LYS:HE2	1.84	0.43
2:K:1721:ARG:NH1	2:K:1854:GLU:OE2	2.51	0.43
2:K:245:SER:HA	2:K:436:THR:OG1	2.19	0.43
2:K:134:ILE:HG13	2:K:545:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:821:GLU:HB2	2:K:1083:ILE:HD11	1.99	0.43
2:L:1351:VAL:CG1	2:L:1352:VAL:N	2.81	0.43
2:L:1951:ILE:HD12	2:L:1951:ILE:H	1.83	0.43
2:L:676:LEU:HD13	2:L:676:LEU:C	2.39	0.43
1:A:1493:PHE:CE2	1:A:1509:THR:HG22	2.53	0.43
1:A:491:SER:O	1:A:493:PRO:HD3	2.19	0.43
1:A:79:LEU:HD12	1:A:88:ILE:HD13	2.00	0.43
1:B:996:VAL:HG11	1:B:1578:LEU:HD11	2.00	0.43
1:B:1697:LEU:O	1:D:1405:ARG:HA	2.18	0.43
1:B:4:GLU:HG3	1:B:4:GLU:H	1.54	0.43
1:B:498:THR:HG22	1:B:508:TYR:CD1	2.53	0.43
1:B:716:GLN:NE2	1:B:747:ALA:HB3	2.32	0.43
1:B:828:TRP:NE1	1:B:838:THR:HA	2.34	0.43
1:B:673:LEU:HD21	1:B:884:MET:HE1	1.99	0.43
1:C:1258:MET:HG2	1:C:1307:PHE:CZ	2.53	0.43
1:D:1218:VAL:HG13	1:D:1301:VAL:CG1	2.47	0.43
1:D:1303:LEU:HA	1:D:1303:LEU:HD23	1.61	0.43
1:D:418:ILE:O	1:D:418:ILE:HG22	2.18	0.43
1:D:883:LEU:HD23	1:D:883:LEU:N	2.33	0.43
1:D:956:ILE:HA	2:J:977:PRO:HA	2.00	0.43
1:D:967:PHE:CE2	1:D:1662:GLN:CB	3.01	0.43
1:E:1094:LYS:HE3	1:E:1316:TYR:CG	2.52	0.43
1:E:1363:MET:HB2	1:E:1363:MET:HE2	1.74	0.43
1:E:792:THR:O	2:H:1750:GLY:HA3	2.19	0.43
1:E:883:LEU:N	1:E:883:LEU:HD23	2.32	0.43
1:F:30:GLU:HB2	2:L:2045:ALA:CB	2.48	0.43
1:A:379:HIS:HE1	1:F:387:ILE:HD13	1.83	0.43
1:F:662:ALA:HA	1:F:694:TYR:CZ	2.54	0.43
2:G:1411:LYS:HB2	2:G:1439:TYR:CD1	2.53	0.43
2:G:1635:TYR:CE2	2:G:1637:VAL:HG23	2.53	0.43
2:G:1067:LEU:CB	4:G:2101:FMN:HM82	2.49	0.43
2:G:350:MET:HG3	2:G:435:ILE:CB	2.48	0.43
2:G:719:GLY:O	2:G:755:GLU:HG3	2.18	0.43
2:G:838:VAL:HG12	2:G:839:ASP:N	2.33	0.43
2:G:846:THR:HG22	2:G:855:ILE:C	2.38	0.43
2:G:990:TYR:N	2:G:991:PRO:CD	2.81	0.43
2:H:1366:ILE:O	2:H:1366:ILE:HG22	2.18	0.43
2:H:43:PHE:CB	2:I:22:ARG:HE	2.30	0.43
2:H:827:GLN:O	2:H:830:GLN:HB3	2.18	0.43
2:I:1517:LEU:CG	2:I:1523:ILE:HD11	2.48	0.43
2:I:1726:PHE:CE1	2:I:1857:VAL:HB	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1969:LEU:HA	2:I:1972:ILE:HD12	1.99	0.43
2:I:618:VAL:CG1	2:I:648:ILE:HD11	2.48	0.43
2:I:690:LEU:HB2	2:I:711:ILE:HG21	2.00	0.43
2:I:716:PHE:HD1	2:I:727:VAL:CG1	2.31	0.43
2:I:930:THR:CG2	2:I:933:GLU:H	2.26	0.43
2:J:1028:VAL:HA	2:J:1029:PRO:HD3	1.73	0.43
2:J:1050:SER:HA	2:J:1064:THR:HG21	2.01	0.43
2:J:580:LEU:HG	2:J:1098:LEU:HD23	2.01	0.43
2:J:589:PHE:CD1	2:J:1116:PHE:CD2	3.06	0.43
2:J:141:TYR:CD2	2:J:196:PHE:CZ	3.06	0.43
2:J:381:SER:OG	2:J:392:THR:HG23	2.18	0.43
2:J:907:ASN:HA	2:J:913:VAL:HG13	1.99	0.43
2:K:1314:GLU:O	2:K:1394:VAL:HA	2.18	0.43
2:K:1361:ILE:HG22	2:K:1435:TYR:OH	2.18	0.43
2:K:1324:PHE:HA	2:K:1583:VAL:HG11	2.00	0.43
2:K:1706:MET:HE2	2:K:1738:VAL:HG11	2.00	0.43
2:K:174:GLY:H	2:K:517:GLY:CA	2.30	0.43
2:K:205:ALA:O	2:K:209:GLN:HG3	2.18	0.43
2:K:1047:LEU:HD11	3:K:2102:NAP:O1N	2.18	0.43
2:K:221:TYR:HA	2:K:242:TYR:OH	2.18	0.43
2:K:726:GLN:O	2:K:730:ILE:HG12	2.18	0.43
2:L:1093:ASP:O	2:L:1097:PHE:CD1	2.70	0.43
2:L:1133:LEU:HD12	2:L:1146:LEU:HD21	2.00	0.43
2:L:1375:HIS:ND1	2:L:1610:MET:HG2	2.33	0.43
2:L:1610:MET:CA	2:L:1610:MET:HE2	2.33	0.43
2:L:1637:VAL:CG1	2:L:1679:LEU:HD13	2.34	0.43
2:L:1985:GLN:C	2:L:1987:VAL:N	2.69	0.43
2:L:828:ALA:O	2:L:832:ILE:HG13	2.18	0.43
1:A:1177:GLU:O	1:A:1180:ILE:HB	2.17	0.43
1:A:1554:LEU:HD23	1:A:1606:VAL:HG12	2.00	0.43
1:A:16:GLU:OE2	2:G:2066:LYS:HD2	2.18	0.43
1:A:352:ARG:HB2	1:A:352:ARG:HE	1.62	0.43
1:A:614:PHE:O	1:A:615:LEU:HD23	2.18	0.43
1:A:767:HIS:NE2	1:A:771:LEU:HD22	2.33	0.43
1:B:1050:TRP:HE3	1:B:1050:TRP:HA	1.84	0.43
1:B:1148:LEU:CD2	1:D:1150:ILE:HG12	2.47	0.43
1:B:1301:VAL:HG23	1:B:1363:MET:HG3	2.01	0.43
1:B:1419:LYS:HA	1:B:1422:ARG:HB2	2.00	0.43
1:C:375:TRP:HB3	1:D:375:TRP:CD2	2.54	0.43
1:C:413:MET:O	1:C:416:ASP:HB2	2.17	0.43
1:C:50:SER:HB2	1:C:52:THR:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:940:ASN:HB3	1:C:949:GLU:OE2	2.19	0.43
1:C:995:VAL:HG13	1:C:1375:ILE:HG23	2.00	0.43
1:D:1078:ILE:HG23	1:D:1352:MET:CE	2.48	0.43
1:D:1514:ILE:H	1:D:1514:ILE:HG13	1.34	0.43
1:D:452:ILE:CD1	1:D:467:LYS:HA	2.48	0.43
1:D:472:GLN:HA	1:D:472:GLN:HE21	1.83	0.43
1:D:741:ASP:CG	1:D:793:ARG:HH11	2.21	0.43
1:E:1617:ILE:N	1:E:1617:ILE:CD1	2.78	0.43
1:E:564:LEU:O	1:E:567:ASN:HB2	2.18	0.43
1:E:869:ARG:O	1:E:903:GLY:HA3	2.17	0.43
1:F:1162:GLY:O	1:F:1354:SER:HA	2.18	0.43
1:F:667:ALA:O	1:F:670:LEU:HB3	2.19	0.43
2:G:1048:TRP:NE1	2:G:1049:GLN:HG2	2.31	0.43
2:G:1351:VAL:CG1	2:G:1352:VAL:N	2.81	0.43
2:G:1491:ARG:O	2:G:1492:LEU:HD23	2.19	0.43
2:G:1701:GLU:N	2:G:1704:MET:HE3	2.33	0.43
2:G:2009:PHE:CD2	2:G:2009:PHE:C	2.92	0.43
2:G:330:SER:N	2:H:1331:THR:HG22	2.33	0.43
2:G:670:MET:HE2	2:G:674:ILE:HD11	2.00	0.43
2:G:876:TRP:HD1	2:G:876:TRP:C	2.21	0.43
1:A:960:ARG:HH11	2:G:968:GLU:HB3	1.84	0.43
2:H:123:ALA:O	2:H:126:VAL:HG23	2.18	0.43
2:H:1873:ARG:NH1	2:H:2002:ASP:CB	2.81	0.43
2:H:349:PRO:O	2:H:392:THR:HA	2.19	0.43
2:H:763:LEU:HA	2:H:763:LEU:HD12	1.86	0.43
2:I:1002:GLU:C	2:I:1004:SER:H	2.22	0.43
2:I:1019:LEU:HA	2:I:1022:ARG:HD2	1.99	0.43
2:I:1061:VAL:HG11	2:I:1066:ILE:HD11	1.99	0.43
2:I:113:PHE:N	2:I:113:PHE:CD1	2.86	0.43
2:I:1356:ALA:HB3	2:I:1397:THR:CG2	2.47	0.43
2:I:1353:GLY:HA2	2:I:1397:THR:HG21	2.00	0.43
2:I:1481:ILE:HD12	2:I:1515:LEU:CD2	2.49	0.43
1:C:34:VAL:HG11	2:I:2047:PRO:HD3	2.01	0.43
2:I:317:TRP:CD1	2:I:454:ASP:CG	2.92	0.43
2:J:1160:PHE:O	2:J:1164:ILE:HG13	2.18	0.43
2:J:1472:TRP:CD2	2:J:1540:VAL:HG22	2.53	0.43
2:J:1919:ASN:HA	2:J:1919:ASN:HD22	1.59	0.43
2:J:1982:ALA:C	2:J:1984:PRO:HD3	2.39	0.43
2:J:460:ILE:O	2:J:486:ILE:N	2.50	0.43
2:J:521:VAL:O	2:J:521:VAL:HG12	2.18	0.43
2:J:613:VAL:H	2:J:614:PRO:HD3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:712:ARG:O	2:J:738:PRO:HG2	2.19	0.43
2:J:77:ALA:O	2:J:139:ALA:HB1	2.19	0.43
2:K:1115:TYR:CE2	2:K:1174:ALA:HB2	2.54	0.43
2:K:1938:THR:HG22	2:K:1977:ARG:HA	2.01	0.43
2:K:352:SER:HB2	2:K:433:LEU:HD11	2.01	0.43
2:K:615:TRP:HB3	2:K:644:ALA:HB1	1.99	0.43
2:K:737:PHE:O	2:K:773:ASN:HB3	2.19	0.43
2:K:819:ALA:HA	2:K:1081:GLU:O	2.18	0.43
2:K:858:LEU:CD2	2:K:864:PRO:HA	2.48	0.43
2:K:890:LYS:HB2	2:K:890:LYS:HE3	1.81	0.43
2:K:937:ARG:CZ	2:K:941:LEU:HD11	2.48	0.43
2:L:611:THR:HG22	2:L:1051:GLU:OE2	2.19	0.43
2:L:481:LEU:C	2:L:483:ASP:H	2.22	0.43
2:L:664:TYR:C	2:L:666:ASN:H	2.21	0.43
1:A:1522:PHE:HB2	1:A:1557:PHE:CD1	2.53	0.43
1:B:1372:GLY:O	1:B:1661:ARG:HD2	2.18	0.43
1:C:1495:ARG:O	1:C:1496:ARG:HB3	2.18	0.43
1:C:491:SER:O	1:C:493:PRO:HD3	2.18	0.43
1:C:543:ASN:O	1:C:546:ARG:HB2	2.18	0.43
1:C:828:TRP:NE1	1:C:838:THR:HA	2.33	0.43
1:D:553:ARG:NH2	1:D:567:ASN:HD21	2.16	0.43
1:D:782:LYS:HZ3	1:D:786:LYS:HD2	1.82	0.43
1:E:1217:GLU:O	1:E:1299:ALA:HB1	2.19	0.43
1:E:1451:LYS:HG2	1:E:1454:ARG:HH22	1.83	0.43
1:E:1501:ALA:O	1:E:1504:ARG:HB2	2.19	0.43
1:E:881:LEU:HA	1:E:884:MET:CG	2.38	0.43
1:E:888:ILE:HA	1:E:891:LEU:HD12	2.00	0.43
1:E:960:ARG:HB3	2:K:969:ARG:HH12	1.82	0.43
1:F:1686:PRO:HB2	1:F:1713:PHE:CD1	2.54	0.43
1:F:382:ILE:H	1:F:382:ILE:HG13	1.61	0.43
1:F:408:GLN:HE22	1:F:1609:SER:H	1.66	0.43
1:F:538:ARG:CA	1:F:585:MET:HE1	2.40	0.43
2:G:820:LYS:HB3	2:G:1080:ASP:O	2.18	0.43
2:G:1624:ALA:CB	2:G:1665:ILE:HD13	2.49	0.43
2:G:182:TYR:CD1	2:G:183:PHE:N	2.87	0.43
2:G:1871:VAL:CG1	2:G:1872:GLU:N	2.81	0.43
2:G:1920:TYR:HD2	2:G:1927:TYR:HE2	1.65	0.43
2:G:318:ILE:HA	2:G:451:ILE:HD13	2.00	0.43
2:G:461:PRO:HD2	2:G:464:SER:OG	2.19	0.43
2:G:635:TYR:CD2	2:G:641:MET:HG3	2.52	0.43
2:H:1113:ILE:HG22	2:H:1114:GLU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1709:TYR:HE2	2:H:1716:LYS:HE2	1.84	0.43
2:H:1769:VAL:HG13	2:H:1774:SER:O	2.18	0.43
2:H:560:ASP:HB3	2:H:565:ALA:HB1	2.00	0.43
2:H:60:THR:HG22	2:H:62:GLU:HG3	2.00	0.43
2:H:821:GLU:HB2	2:H:1083:ILE:HD11	2.00	0.43
2:H:955:LEU:HD21	2:H:1026:LYS:O	2.18	0.43
2:I:1114:GLU:HB3	2:I:1169:TYR:CB	2.48	0.43
2:I:1175:MET:SD	2:I:1274:ILE:HD13	2.59	0.43
2:I:1238:GLY:O	2:I:1239:ASP:HB2	2.19	0.43
2:I:1465:ALA:O	2:I:1469:SER:HB3	2.19	0.43
2:I:1982:ALA:C	2:I:1984:PRO:HD3	2.39	0.43
2:I:2052:LYS:HG2	2:I:2052:LYS:H	1.44	0.43
2:I:601:PRO:HB2	2:I:626:TYR:CE2	2.53	0.43
2:I:796:TRP:CG	2:I:797:SER:N	2.86	0.43
2:I:95:HIS:CB	2:I:96:PRO:HD3	2.49	0.43
2:J:80:ILE:HG12	2:J:105:ILE:HG22	2.01	0.43
2:J:2044:THR:HG21	2:J:2054:TYR:OH	2.18	0.43
2:K:1127:GLU:HA	2:K:1128:PRO:HD3	1.81	0.43
2:K:988:GLU:HA	2:K:989:PRO:HD3	1.73	0.43
2:L:1142:ILE:HG13	2:L:1209:PRO:HG2	2.00	0.43
2:L:1160:PHE:O	2:L:1164:ILE:HG13	2.18	0.43
2:L:1314:GLU:O	2:L:1394:VAL:HA	2.18	0.43
2:L:1356:ALA:HB3	2:L:1397:THR:CG2	2.47	0.43
2:L:1637:VAL:HG12	2:L:1679:LEU:HD22	2.01	0.43
2:L:1915:LEU:HB2	2:L:1935:ALA:HB1	1.99	0.43
2:L:1945:ILE:O	2:L:1949:GLN:HB2	2.19	0.43
2:L:1961:SER:O	2:L:1965:VAL:HG22	2.18	0.43
2:L:1982:ALA:C	2:L:1984:PRO:HD3	2.38	0.43
2:L:797:SER:O	2:L:802:TYR:HB2	2.19	0.43
1:A:1038:HIS:CE1	1:A:1042:LEU:CD2	3.01	0.43
1:A:1692:GLN:HG3	1:A:1696:PHE:CE2	2.54	0.43
1:A:556:HIS:HA	1:A:563:GLN:HE22	1.83	0.43
1:A:612:ILE:HA	1:A:613:PRO:HD3	1.59	0.43
1:A:756:ILE:HG22	1:F:827:ARG:NH1	2.34	0.43
1:A:844:ILE:N	1:A:844:ILE:HD12	2.34	0.43
1:A:960:ARG:HG3	1:A:960:ARG:NH1	2.34	0.43
1:B:1685:ALA:HB1	1:B:1686:PRO:CD	2.48	0.43
1:B:527:ALA:HB2	1:B:637:LEU:HD22	2.01	0.43
1:B:985:ARG:O	1:B:987:MET:HG2	2.19	0.43
1:C:967:PHE:CD2	1:C:1374:PRO:HG3	2.52	0.43
1:C:405:TRP:CH2	1:C:1609:SER:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:573:VAL:O	1:C:577:LEU:HG	2.17	0.43
1:C:898:PHE:CD2	1:C:899:ALA:N	2.86	0.43
1:C:908:ILE:HA	1:C:909:PRO:HD3	1.87	0.43
1:C:968:PRO:CD	1:C:1374:PRO:HB3	2.49	0.43
1:C:967:PHE:HB3	1:C:968:PRO:CD	2.49	0.43
1:D:449:GLN:O	1:D:450:TYR:C	2.57	0.43
1:D:557:ARG:HG3	1:D:557:ARG:NH1	2.01	0.43
1:E:1050:TRP:HA	1:E:1050:TRP:HE3	1.84	0.43
1:E:1393:VAL:N	1:E:1394:PRO:HD3	2.33	0.43
1:E:46:GLU:HB3	1:E:80:CYS:HA	2.01	0.43
1:F:1102:ILE:HG13	1:F:1102:ILE:H	1.66	0.43
1:C:1148:LEU:CD2	1:F:1150:ILE:HG12	2.49	0.43
1:F:1393:VAL:HB	1:F:1394:PRO:HD3	2.01	0.43
1:F:1648:LYS:O	1:F:1652:GLU:HB2	2.19	0.43
1:F:414:TYR:CD2	1:F:414:TYR:C	2.91	0.43
1:F:498:THR:HG22	1:F:508:TYR:CD1	2.53	0.43
1:F:620:LYS:HE3	1:F:626:TRP:CZ2	2.54	0.43
1:F:801:LEU:HD13	1:F:822:GLU:HG2	1.99	0.43
2:G:1026:LYS:HG2	2:G:1027:PRO:HD2	2.00	0.43
2:G:1447:GLN:HB3	2:G:1496:VAL:HG13	1.99	0.43
2:G:358:ARG:HB2	2:G:389:PHE:CE2	2.53	0.43
2:G:743:TRP:CD2	2:G:761:ILE:HD11	2.53	0.43
2:H:1028:VAL:HG13	2:H:1030:PHE:CE2	2.54	0.43
2:H:912:LYS:HG2	2:H:1029:PRO:C	2.38	0.43
2:H:1265:TYR:HE1	2:H:1267:PRO:HG3	1.76	0.43
2:H:162:ALA:CA	2:H:167:VAL:HG22	2.48	0.43
2:H:223:LYS:HB3	2:H:242:TYR:CZ	2.54	0.43
2:H:251:PRO:CG	2:H:316:PHE:HA	2.45	0.43
2:H:607:GLY:HA2	2:H:612:THR:HG21	2.00	0.43
2:H:690:LEU:HD22	2:H:691:THR:H	1.82	0.43
2:I:123:ALA:O	2:I:126:VAL:HG23	2.18	0.43
2:I:1370:LEU:CD1	2:I:1373:LEU:HD13	2.48	0.43
2:I:1404:VAL:O	2:I:1445:THR:HA	2.19	0.43
2:I:1472:TRP:CD2	2:I:1540:VAL:HG22	2.53	0.43
2:I:1472:TRP:CE2	2:I:1540:VAL:HG22	2.53	0.43
2:I:1961:SER:O	2:I:1965:VAL:HG22	2.17	0.43
2:I:690:LEU:HD22	2:I:691:THR:N	2.34	0.43
2:I:578:PRO:HG3	2:I:792:LEU:O	2.18	0.43
2:J:1127:GLU:HA	2:J:1128:PRO:HD3	1.83	0.43
2:J:1709:TYR:CE2	2:J:1716:LYS:HG2	2.53	0.43
2:J:1764:MET:O	2:J:1780:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1903:VAL:HG13	2:J:1942:VAL:HG11	2.01	0.43
2:J:379:GLY:O	2:J:391:VAL:HG13	2.18	0.43
2:J:472:THR:HG23	2:J:499:VAL:HA	1.99	0.43
2:K:80:ILE:HG12	2:K:105:ILE:CG2	2.49	0.43
2:K:785:SER:HB3	2:K:1094:HIS:CD2	2.53	0.43
2:K:1343:PHE:CE2	2:K:1388:PRO:HD2	2.53	0.43
2:K:1537:GLY:O	2:K:1539:PRO:HD3	2.18	0.43
2:K:1706:MET:HE1	2:K:1735:ILE:HG23	2.00	0.43
2:K:174:GLY:HA2	2:K:524:ILE:HG12	2.01	0.43
2:K:2044:THR:HG21	2:K:2054:TYR:CZ	2.53	0.43
2:K:276:LEU:HD21	2:K:296:ALA:HA	2.00	0.43
2:K:349:PRO:O	2:K:392:THR:HA	2.18	0.43
2:K:595:SER:CB	2:K:602:PRO:HG3	2.30	0.43
2:K:740:ILE:HG22	2:K:742:GLN:HG3	2.01	0.43
2:L:1553:GLN:HB3	2:L:1554:PRO:CD	2.48	0.43
1:F:11:TYR:CD1	2:L:2027:LYS:HG2	2.54	0.43
2:L:256:VAL:O	2:L:260:HIS:HD2	2.01	0.43
2:L:741:LEU:O	2:L:741:LEU:CG	2.64	0.43
2:L:594:MET:SD	2:L:809:GLY:HA3	2.58	0.43
1:A:1051:VAL:HG13	1:A:1057:GLU:O	2.19	0.43
1:A:88:ILE:HG21	2:G:1821:MET:HE1	2.00	0.43
1:B:1011:ARG:NH1	1:B:1012:TRP:HA	2.33	0.43
1:B:746:PHE:CD2	3:B:1901:NAP:H4D	2.53	0.43
1:C:1213:VAL:CG1	1:C:1217:GLU:HB2	2.49	0.43
1:C:1504:ARG:NH2	1:C:1545:LEU:O	2.52	0.43
1:C:1663:LYS:HE2	2:I:1005:THR:O	2.19	0.43
1:C:916:THR:HA	1:C:919:ARG:HB2	2.01	0.43
1:C:968:PRO:HG3	1:C:1376:TYR:CE1	2.53	0.43
1:C:985:ARG:O	1:C:987:MET:HG2	2.18	0.43
1:D:1217:GLU:O	1:D:1299:ALA:HB1	2.19	0.43
1:D:452:ILE:HA	1:D:452:ILE:HD13	1.87	0.43
1:D:662:ALA:HA	1:D:694:TYR:CZ	2.53	0.43
1:E:421:ARG:HH22	1:E:1613:LYS:CG	2.31	0.43
1:E:4:GLU:HG3	1:E:4:GLU:H	1.53	0.43
1:F:997:THR:CG2	1:F:1361:VAL:HG22	2.49	0.43
2:G:1171:TRP:CG	2:G:1172:ARG:N	2.86	0.43
2:G:1211:ASP:HA	2:G:1212:PRO:HD2	1.85	0.43
2:G:1248:GLU:HB2	2:G:1596:PHE:CE1	2.54	0.43
2:G:1749:PHE:CD2	2:G:1758:ARG:HB3	2.54	0.43
2:G:1939:LEU:O	2:G:1943:LEU:HG	2.18	0.43
2:G:1961:SER:O	2:G:1965:VAL:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:310:ARG:HH12	2:G:459:LYS:H	1.67	0.43
2:G:462:ALA:HB3	2:G:483:ASP:HA	2.00	0.43
2:G:610:PRO:HD2	4:G:2101:FMN:C6	2.28	0.43
2:H:1229:VAL:CG1	2:H:1230:LYS:N	2.81	0.43
2:H:1760:ASN:O	2:H:1764:MET:HG2	2.18	0.43
2:H:1920:TYR:HD2	2:H:1927:TYR:HE2	1.66	0.43
2:H:196:PHE:N	2:H:196:PHE:HD2	2.16	0.43
2:H:2050:ILE:O	2:H:2050:ILE:HG12	2.19	0.43
2:H:411:PRO:HD2	2:H:414:LEU:HD11	2.00	0.43
2:H:43:PHE:HB2	2:I:22:ARG:CZ	2.47	0.43
2:I:1047:LEU:H	2:I:1047:LEU:HD12	1.83	0.43
1:C:21:GLN:HE22	2:I:1841:TYR:HE1	1.66	0.43
2:I:1804:GLN:CB	2:I:1861:PHE:HE1	2.32	0.43
2:I:22:ARG:HD2	2:I:39:THR:HA	2.00	0.43
2:I:718:PRO:HG2	2:I:741:LEU:CD1	2.49	0.43
2:J:1481:ILE:HG13	2:J:1481:ILE:O	2.19	0.43
2:J:187:ARG:NH2	2:J:234:PRO:HA	2.33	0.43
2:J:1920:TYR:HD2	2:J:1927:TYR:HE2	1.65	0.43
2:J:1914:LEU:O	2:J:1931:GLY:HA3	2.17	0.43
2:J:1945:ILE:HG22	2:J:1946:LEU:N	2.33	0.43
2:J:2039:TYR:C	2:J:2039:TYR:CD2	2.91	0.43
2:J:256:VAL:O	2:J:260:HIS:HD2	2.01	0.43
2:J:382:LEU:HG	2:J:390:VAL:HB	2.00	0.43
2:J:372:LEU:CD1	2:J:397:SER:HB2	2.49	0.43
2:J:700:GLU:HA	2:J:703:ASN:HB2	2.01	0.43
2:K:1093:ASP:O	2:K:1097:PHE:CD1	2.71	0.43
2:K:1237:VAL:O	2:K:1241:GLU:HB2	2.19	0.43
2:K:1383:VAL:CG2	2:K:1428:TYR:HE1	2.30	0.43
2:K:1726:PHE:CE1	2:K:1857:VAL:HB	2.54	0.43
2:K:1851:MET:HB3	2:K:1851:MET:HE3	1.83	0.43
2:K:187:ARG:NH2	2:K:234:PRO:HA	2.33	0.43
2:K:1920:TYR:HD2	2:K:1927:TYR:HE2	1.65	0.43
2:K:1521:GLU:OE2	2:K:2028:THR:CG2	2.67	0.43
2:K:317:TRP:CD1	2:K:454:ASP:OD2	2.72	0.43
2:K:690:LEU:HD22	2:K:691:THR:N	2.34	0.43
2:K:962:PHE:O	2:K:965:ARG:HB3	2.18	0.43
2:L:1061:VAL:HG11	2:L:1066:ILE:HD11	2.01	0.43
2:L:1248:GLU:OE2	2:L:1250:ARG:NE	2.50	0.43
2:L:1481:ILE:HD12	2:L:1515:LEU:CD2	2.49	0.43
2:L:2039:TYR:CD2	2:L:2039:TYR:C	2.91	0.43
2:L:311:ALA:O	2:L:314:LEU:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:36:LEU:HA	2:L:36:LEU:HD12	1.90	0.43
2:L:838:VAL:HG12	2:L:839:ASP:N	2.33	0.43
1:A:1005:TRP:HE1	1:A:1561:LEU:HD22	1.81	0.43
1:A:40:ARG:HH21	1:A:74:VAL:HG22	1.83	0.43
1:B:1071:TYR:C	1:B:1071:TYR:CD2	2.92	0.43
1:B:1078:ILE:HG23	1:B:1352:MET:HE3	2.01	0.43
1:B:1191:LEU:HD23	1:B:1191:LEU:HA	1.77	0.43
1:B:1522:PHE:CD2	1:B:1534:GLU:HB3	2.53	0.43
1:B:414:TYR:CD2	1:B:414:TYR:C	2.93	0.43
1:B:447:PHE:CE1	1:B:451:HIS:NE2	2.87	0.43
1:B:667:ALA:O	1:B:671:GLN:HG3	2.18	0.43
1:B:960:ARG:HH11	1:B:960:ARG:HG3	1.84	0.43
1:C:1617:ILE:N	1:C:1617:ILE:CD1	2.77	0.43
1:C:401:SER:O	1:C:405:TRP:CD1	2.72	0.43
1:D:27:ARG:HG2	1:D:27:ARG:H	1.42	0.43
1:D:414:TYR:C	1:D:414:TYR:CD2	2.92	0.43
1:D:440:SER:HB3	1:D:481:LEU:CD2	2.40	0.43
1:D:673:LEU:HD21	1:D:884:MET:HE3	2.00	0.43
1:E:1011:ARG:HH11	1:E:1012:TRP:HA	1.83	0.43
1:E:1372:GLY:O	1:E:1661:ARG:HD2	2.18	0.43
1:C:1488:SER:HB2	1:F:1480:ARG:NH2	2.34	0.43
1:F:1525:THR:O	1:F:1526:SER:HB3	2.19	0.43
1:F:756:ILE:HA	1:F:759:ILE:CD1	2.46	0.43
2:G:621:THR:OG1	2:G:1083:ILE:HD13	2.19	0.43
2:G:1551:ILE:CG2	2:G:1552:GLU:HG3	2.49	0.43
2:G:1851:MET:CE	2:G:2025:ILE:HG12	2.48	0.43
2:G:2031:ASP:C	2:G:2033:SER:N	2.72	0.43
2:G:2044:THR:HG21	2:G:2054:TYR:CZ	2.54	0.43
2:G:441:SER:C	2:G:443:TYR:H	2.22	0.43
2:G:490:LEU:HD23	2:G:493:MET:SD	2.59	0.43
2:G:501:TRP:CD1	2:G:501:TRP:C	2.89	0.43
2:H:45:ALA:HB2	2:H:101:VAL:HG22	1.99	0.43
2:H:501:TRP:CZ2	2:H:524:ILE:HG21	2.53	0.43
2:I:1083:ILE:H	2:I:1083:ILE:HG13	1.51	0.43
2:I:792:LEU:HD23	2:I:1094:HIS:ND1	2.33	0.43
2:I:1269:ALA:HB1	2:I:1271:TYR:CE1	2.53	0.43
2:I:1337:ASP:HB2	2:I:1342:PHE:CD1	2.54	0.43
2:I:1764:MET:O	2:I:1780:ILE:HG13	2.18	0.43
1:C:22:PHE:O	2:I:2006:HIS:HA	2.18	0.43
2:I:193:TYR:HD1	2:I:263:ILE:HD13	1.81	0.43
2:I:358:ARG:HB2	2:I:389:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:60:THR:HG22	2:I:62:GLU:H	1.84	0.43
1:C:962:ASN:HB3	2:I:969:ARG:CD	2.48	0.43
2:J:1133:LEU:HD12	2:J:1146:LEU:HD21	2.00	0.43
2:J:1619:LEU:O	2:J:1623:TRP:HB2	2.19	0.43
2:J:705:TYR:HA	2:J:709:LEU:HD21	2.00	0.43
2:J:950:TRP:CE2	2:J:956:LYS:HG3	2.53	0.43
2:K:1067:LEU:O	2:K:1068:GLN:HG2	2.18	0.43
2:K:1175:MET:SD	2:K:1274:ILE:HD13	2.59	0.43
2:K:1067:LEU:CB	4:K:2101:FMN:HM82	2.49	0.43
2:K:350:MET:SD	2:K:392:THR:CG2	3.07	0.43
2:K:41:LEU:HD13	2:K:100:GLU:HB3	2.01	0.43
2:L:187:ARG:HH22	2:L:234:PRO:HA	1.84	0.43
2:L:1067:LEU:HB3	4:L:2101:FMN:HM82	2.01	0.43
2:L:350:MET:SD	2:L:392:THR:CG2	3.07	0.43
2:L:476:GLN:HG2	2:L:476:GLN:H	1.71	0.43
2:L:662:LEU:HD22	2:L:673:GLN:OE1	2.18	0.43
2:L:759:GLN:N	2:L:760:PRO:CD	2.82	0.43
2:L:946:HIS:CE1	2:L:947:GLU:HG3	2.54	0.43
1:A:612:ILE:HG23	1:A:613:PRO:HD2	2.01	0.43
1:B:1154:LEU:HD23	1:B:1154:LEU:HA	1.73	0.43
1:B:1579:GLN:O	1:B:1583:THR:HG23	2.18	0.43
1:B:1584:GLY:HA2	1:B:1617:ILE:HD12	1.99	0.43
1:B:445:LEU:O	1:B:448:MET:HB2	2.19	0.43
1:B:427:ARG:HD2	1:B:490:VAL:HG12	2.01	0.43
1:C:28:TRP:HE1	1:C:32:GLN:NE2	2.16	0.43
1:C:526:MET:CE	1:C:615:LEU:HG	2.49	0.43
1:C:40:ARG:HH21	1:C:74:VAL:HG22	1.83	0.43
1:D:968:PRO:HD2	1:D:1374:PRO:HB3	2.01	0.43
1:D:876:MET:O	1:D:876:MET:HE3	2.19	0.43
1:C:1274:LYS:HG2	1:F:1289:VAL:CG2	2.49	0.43
1:F:1338:GLY:C	1:F:1340:MET:N	2.72	0.43
1:F:759:ILE:N	1:F:759:ILE:HD12	2.33	0.43
1:F:746:PHE:CD1	1:F:800:PRO:HG3	2.53	0.43
2:G:1637:VAL:HG12	2:G:1679:LEU:HD22	2.00	0.43
2:G:1948:MET:HG2	2:G:1993:PHE:CZ	2.54	0.43
2:G:245:SER:HA	2:G:436:THR:OG1	2.19	0.43
2:G:437:ALA:HA	2:G:438:PRO:HD3	1.76	0.43
2:G:44:GLN:O	2:G:48:LEU:HG	2.19	0.43
2:G:31:LEU:HB2	2:G:72:VAL:HG22	2.00	0.43
2:H:2058:VAL:O	2:H:2062:THR:HB	2.18	0.43
2:H:226:ASP:OD2	2:H:229:GLN:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:511:THR:C	2:H:512:HIS:CD2	2.92	0.43
2:H:616:ASP:OD2	2:H:823:HIS:NE2	2.52	0.43
2:H:726:GLN:O	2:H:730:ILE:HG12	2.18	0.43
2:H:821:GLU:OE2	2:H:1083:ILE:HG13	2.18	0.43
2:H:980:LEU:HB2	2:H:996:ILE:CD1	2.48	0.43
2:I:1103:TYR:C	2:I:1104:ASP:OD1	2.57	0.43
2:I:1161:MET:HE1	2:I:1193:LYS:HG2	2.00	0.43
2:I:1551:ILE:CG2	2:I:1552:GLU:HG3	2.48	0.43
2:I:1553:GLN:HB3	2:I:1554:PRO:CD	2.48	0.43
2:I:388:ASN:C	2:I:388:ASN:ND2	2.72	0.43
2:I:422:THR:HG21	2:I:844:GLU:HG3	2.00	0.43
2:I:465:LEU:HB2	2:I:479:ARG:CG	2.48	0.43
2:I:582:LYS:HA	2:I:587:GLN:O	2.19	0.43
2:I:718:PRO:HG3	2:I:727:VAL:CG2	2.49	0.43
2:I:866:HIS:HB3	2:I:1068:GLN:O	2.18	0.43
2:J:1009:ASN:HB2	2:J:1012:ASP:OD2	2.19	0.43
2:J:1343:PHE:CE2	2:J:1388:PRO:HD2	2.54	0.43
2:J:1951:ILE:H	2:J:1951:ILE:HD12	1.84	0.43
1:D:8:GLU:HG2	2:J:2027:LYS:HD3	2.01	0.43
2:K:1344:ALA:N	2:K:1389:LEU:O	2.46	0.43
2:K:1447:GLN:HB3	2:K:1496:VAL:HG13	2.00	0.43
2:K:357:THR:HG22	2:K:359:SER:H	1.83	0.43
2:K:501:TRP:CZ2	2:K:528:THR:CG2	3.01	0.43
2:K:174:GLY:HA3	2:K:518:PRO:HD2	2.01	0.43
2:K:616:ASP:HB2	2:K:617:PHE:H	1.73	0.43
2:K:765:TYR:CD2	2:K:805:MET:HG2	2.54	0.43
2:L:1749:PHE:CD2	2:L:1758:ARG:HB3	2.53	0.43
2:L:604:MET:HE1	2:L:777:VAL:HG11	2.00	0.43
1:A:1686:PRO:HD2	1:A:1687:TYR:CE2	2.54	0.42
1:A:709:LEU:HD23	1:A:709:LEU:HA	1.82	0.42
1:B:1703:VAL:HG13	1:B:1712:LYS:O	2.19	0.42
1:B:655:ALA:CB	1:B:742:TYR:HB2	2.48	0.42
1:B:756:ILE:HA	1:B:759:ILE:CD1	2.48	0.42
1:C:1213:VAL:HG22	1:C:1300:ARG:CZ	2.48	0.42
1:C:1494:TRP:HE1	1:C:1509:THR:HG21	1.84	0.42
1:C:996:VAL:HG11	1:C:1578:LEU:HD11	2.00	0.42
1:D:1057:GLU:HA	1:D:1058:PRO:HD3	1.88	0.42
1:D:1175:VAL:HA	1:D:1176:PRO:HD3	1.80	0.42
1:D:1617:ILE:CD1	1:D:1617:ILE:N	2.80	0.42
1:D:1652:GLU:O	1:D:1656:VAL:HG23	2.18	0.42
1:E:1205:ASP:OD2	1:E:1207:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2:ARG:HB2	1:E:5:VAL:HB	2.01	0.42
1:B:551:LEU:HD11	1:E:565:GLN:HG3	2.01	0.42
1:F:1051:VAL:HG13	1:F:1057:GLU:O	2.19	0.42
1:F:1063:ASP:O	1:F:1064:VAL:C	2.56	0.42
1:F:1470:ARG:HA	1:F:1470:ARG:HD3	1.83	0.42
2:G:1332:GLY:C	2:G:1334:ALA:H	2.21	0.42
2:G:2009:PHE:HD2	2:G:2009:PHE:C	2.22	0.42
2:G:41:LEU:HD13	2:G:100:GLU:HB3	2.01	0.42
2:G:560:ASP:HB3	2:G:565:ALA:HB1	2.01	0.42
2:G:717:LYS:HD2	4:G:2101:FMN:O2	2.18	0.42
2:G:785:SER:HB3	2:G:1090:ILE:HG23	2.01	0.42
2:G:818:THR:HA	2:G:829:LYS:HE2	2.01	0.42
2:H:1472:TRP:CD2	2:H:1540:VAL:HG22	2.54	0.42
2:H:1662:ARG:NH1	2:H:1684:GLU:OE1	2.52	0.42
2:H:174:GLY:HA2	2:H:524:ILE:CG1	2.49	0.42
2:H:221:TYR:CD2	2:H:225:LEU:HD22	2.54	0.42
2:H:646:SER:O	2:H:649:GLU:HG2	2.18	0.42
2:H:700:GLU:HA	2:H:703:ASN:HB2	2.01	0.42
2:H:704:GLU:OE1	2:H:704:GLU:HA	2.19	0.42
2:H:754:PHE:N	2:H:754:PHE:CD1	2.87	0.42
2:H:776:LEU:HG	2:H:807:PHE:CD2	2.53	0.42
2:I:45:ALA:HB2	2:I:101:VAL:HG22	2.00	0.42
2:I:291:VAL:O	2:I:295:ILE:HB	2.19	0.42
2:I:462:ALA:HB3	2:I:483:ASP:HA	2.00	0.42
2:I:894:GLU:CD	2:I:897:LYS:HD3	2.39	0.42
2:J:1278:MET:HA	2:J:1281:ARG:HB2	2.00	0.42
2:J:1706:MET:HE2	2:J:1738:VAL:HG11	2.01	0.42
2:J:1871:VAL:HG21	2:J:2004:PRO:HD3	2.01	0.42
1:D:34:VAL:HG11	2:J:2047:PRO:HD3	2.00	0.42
2:J:462:ALA:HB3	2:J:483:ASP:HA	2.00	0.42
2:J:720:SER:HB3	2:J:723:ALA:HB2	2.00	0.42
2:J:857:VAL:HG13	2:J:876:TRP:HE1	1.79	0.42
2:K:1160:PHE:O	2:K:1164:ILE:HG13	2.18	0.42
2:K:308:ALA:O	2:K:312:VAL:HG23	2.19	0.42
2:K:433:LEU:HA	2:K:434:PRO:HD3	1.83	0.42
2:K:472:THR:CG2	2:K:499:VAL:HG22	2.49	0.42
2:K:520:GLY:C	2:K:522:SER:H	2.21	0.42
2:K:525:GLY:O	2:K:529:ASN:HB2	2.19	0.42
2:K:585:VAL:HG12	2:K:585:VAL:O	2.18	0.42
2:K:652:ILE:O	2:K:654:PRO:HD3	2.19	0.42
2:L:1602:LEU:HA	2:L:1602:LEU:HD12	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2052:LYS:H	2:L:2052:LYS:HG2	1.42	0.42
2:L:41:LEU:HD13	2:L:100:GLU:HB3	2.01	0.42
2:L:685:VAL:HA	2:L:686:PRO:HD3	1.61	0.42
2:L:764:MET:O	2:L:765:TYR:C	2.57	0.42
1:A:1205:ASP:OD2	1:A:1207:TYR:HB2	2.19	0.42
1:A:1330:GLU:O	1:A:1335:ARG:HB2	2.20	0.42
1:A:626:TRP:CZ3	1:A:898:PHE:HB2	2.55	0.42
1:A:974:ASP:O	1:A:979:PRO:HD3	2.20	0.42
1:B:1466:TYR:CE2	1:B:1470:ARG:HG3	2.54	0.42
1:B:1521:SER:HB2	1:B:1577:CYS:SG	2.59	0.42
1:B:352:ARG:HE	1:B:352:ARG:HB2	1.58	0.42
1:B:687:PHE:C	1:B:687:PHE:CD2	2.92	0.42
1:B:890:ASN:OD1	2:K:1755:LYS:HE2	2.19	0.42
1:C:1599:MET:HA	1:C:1602:PHE:HD2	1.83	0.42
1:C:27:ARG:HG2	1:C:27:ARG:H	1.40	0.42
1:C:430:VAL:HG12	1:C:434:ILE:HD11	2.00	0.42
1:D:963:LEU:HD23	1:D:1023:GLU:HB3	2.00	0.42
1:D:11:TYR:CD1	2:J:2027:LYS:HG2	2.54	0.42
1:D:1522:PHE:CD2	1:D:1534:GLU:HB3	2.54	0.42
1:D:340:LEU:HD23	1:D:340:LEU:O	2.18	0.42
1:D:343:ILE:O	1:D:347:LEU:HG	2.18	0.42
1:D:407:ARG:CZ	1:D:1606:VAL:HG23	2.49	0.42
1:D:457:THR:HG22	1:D:464:GLN:HA	2.01	0.42
1:D:498:THR:HG22	1:D:508:TYR:CD1	2.53	0.42
1:D:755:GLU:C	1:D:757:ASP:N	2.72	0.42
1:E:1099:GLU:HG2	1:E:1149:LEU:HD21	2.01	0.42
1:E:1491:ASN:ND2	1:E:1491:ASN:N	2.67	0.42
1:E:414:TYR:CE2	1:E:418:ILE:CD1	3.02	0.42
1:E:911:LEU:O	1:E:911:LEU:HD12	2.19	0.42
2:G:1481:ILE:O	2:G:1481:ILE:HG13	2.18	0.42
2:G:1575:ALA:O	2:G:1576:SER:HB3	2.19	0.42
2:G:1734:ILE:O	2:G:1738:VAL:HG23	2.18	0.42
2:G:1740:ASN:O	2:G:1742:PRO:HD3	2.19	0.42
2:G:174:GLY:HA2	2:G:524:ILE:CG1	2.49	0.42
2:G:646:SER:O	2:G:649:GLU:HG2	2.19	0.42
2:H:1009:ASN:HD22	2:H:1009:ASN:HA	1.53	0.42
2:H:1346:MET:CE	2:H:1617:ARG:NH2	2.82	0.42
2:H:1499:LYS:CG	2:H:1500:ASN:N	2.80	0.42
2:H:938:MET:HE1	2:H:959:THR:HA	2.01	0.42
2:I:928:ASP:C	2:I:1007:LEU:HD23	2.40	0.42
2:I:1093:ASP:O	2:I:1097:PHE:CD1	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1236:LEU:HD12	2:I:1241:GLU:O	2.18	0.42
2:I:1418:THR:HG23	2:I:1428:TYR:CE2	2.54	0.42
2:I:1646:ASN:HD22	2:I:1646:ASN:HA	1.69	0.42
2:I:1934:ARG:O	2:I:1938:THR:HG23	2.19	0.42
2:I:1945:ILE:O	2:I:1949:GLN:HB2	2.19	0.42
2:I:1951:ILE:H	2:I:1951:ILE:HD12	1.82	0.42
2:I:1960:MET:HB3	2:I:1964:ASP:HB2	2.02	0.42
2:I:22:ARG:HG3	2:I:39:THR:HA	2.00	0.42
2:I:468:PRO:HA	2:I:479:ARG:HD3	2.01	0.42
2:J:1515:LEU:CB	2:J:1525:VAL:HG21	2.50	0.42
2:J:1745:LEU:HB3	2:J:1799:LEU:CD2	2.50	0.42
2:J:205:ALA:O	2:J:209:GLN:HG3	2.19	0.42
2:J:26:LEU:HD23	2:J:49:LYS:HG3	2.01	0.42
2:J:718:PRO:HG2	2:J:741:LEU:HD11	2.01	0.42
2:J:882:LYS:HD3	2:J:898:ARG:CZ	2.49	0.42
2:K:1180:VAL:CG1	2:K:1188:GLN:H	2.29	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:H	1.84	0.42
2:K:1658:MET:HE3	2:K:1658:MET:HB3	1.90	0.42
2:K:1795:SER:CB	2:K:1799:LEU:HD12	2.47	0.42
2:K:462:ALA:HB3	2:K:483:ASP:H	1.83	0.42
2:K:723:ALA:O	2:K:726:GLN:HB2	2.19	0.42
2:L:1000:TYR:HA	2:L:1001:PRO:HD2	1.72	0.42
2:L:1318:ALA:HB2	2:L:1391:VAL:HG11	2.01	0.42
2:L:1515:LEU:CB	2:L:1525:VAL:HG21	2.49	0.42
2:L:1560:PRO:O	2:L:1562:PRO:HD3	2.18	0.42
2:L:1910:VAL:CG1	2:L:1973:ILE:HG21	2.49	0.42
2:L:342:ASN:HB3	2:L:406:ARG:HD3	2.01	0.42
2:L:705:TYR:HA	2:L:709:LEU:HD21	1.99	0.42
1:A:998:GLY:CA	1:A:1361:VAL:HG13	2.32	0.42
1:A:741:ASP:CG	1:A:793:ARG:HH11	2.23	0.42
1:B:1674:ILE:HG22	1:B:1675:ASN:OD1	2.19	0.42
1:B:968:PRO:HG3	1:B:1376:TYR:CE1	2.54	0.42
1:C:1107:GLU:HA	1:C:1108:PRO:HD3	1.72	0.42
1:C:1207:TYR:CE2	1:C:1682:LYS:HD2	2.53	0.42
1:C:1685:ALA:HB1	1:C:1686:PRO:CD	2.49	0.42
1:C:452:ILE:HA	1:C:452:ILE:HD13	1.88	0.42
1:C:547:SER:HA	1:C:550:LYS:HB2	2.01	0.42
1:C:756:ILE:HA	1:C:759:ILE:CD1	2.47	0.42
1:D:613:PRO:C	1:D:615:LEU:N	2.72	0.42
1:D:623:PHE:O	1:D:624:GLY:C	2.57	0.42
1:D:904:GLY:C	1:D:906:GLN:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:633:THR:O	1:E:637:LEU:HB2	2.20	0.42
1:F:1154:LEU:HD23	1:F:1154:LEU:HA	1.72	0.42
1:F:443:LEU:H	1:F:443:LEU:HD12	1.84	0.42
1:F:612:ILE:HD12	1:F:907:PHE:CZ	2.38	0.42
1:A:827:ARG:NE	1:F:816:GLU:OE2	2.52	0.42
2:G:1383:VAL:CG2	2:G:1428:TYR:HE1	2.30	0.42
2:G:1766:PHE:HB2	2:G:1780:ILE:HG12	2.02	0.42
2:G:2031:ASP:HB3	2:G:2033:SER:OG	2.19	0.42
2:G:276:LEU:O	2:G:467:ILE:CD1	2.67	0.42
2:G:174:GLY:HA3	2:G:518:PRO:HD2	2.02	0.42
2:G:615:TRP:HB2	2:G:648:ILE:HG13	2.01	0.42
2:G:673:GLN:O	2:G:676:LEU:HB3	2.19	0.42
2:H:1314:GLU:O	2:H:1394:VAL:HA	2.18	0.42
2:H:1321:VAL:HG12	2:H:1322:ALA:N	2.34	0.42
2:H:1380:TYR:HD2	2:H:1429:VAL:HG22	1.81	0.42
2:H:1470:LYS:HA	2:H:1470:LYS:HD3	1.90	0.42
2:H:290:VAL:CG1	2:H:314:LEU:HD23	2.48	0.42
2:H:690:LEU:HD22	2:H:691:THR:N	2.33	0.42
2:H:857:VAL:CG1	2:H:876:TRP:CD1	3.02	0.42
2:H:865:ILE:HG22	2:H:867:LYS:HG3	2.02	0.42
2:H:942:MET:O	2:H:951:ILE:HG13	2.19	0.42
2:I:1102:LEU:HA	2:I:1102:LEU:HD23	1.83	0.42
2:I:1241:GLU:HA	2:I:1263:PHE:O	2.19	0.42
2:I:1447:GLN:HB3	2:I:1496:VAL:HG13	2.01	0.42
2:I:1594:ARG:NH1	2:I:1595:VAL:HG13	2.34	0.42
2:I:1910:VAL:HG13	2:I:1974:GLN:HE22	1.84	0.42
2:I:1067:LEU:HB3	4:I:2101:FMN:HM82	2.01	0.42
2:I:472:THR:HG23	2:I:499:VAL:HA	2.02	0.42
2:I:705:TYR:HA	2:I:709:LEU:HD21	2.01	0.42
2:I:723:ALA:O	2:I:726:GLN:HB2	2.19	0.42
2:J:1299:VAL:HG22	2:J:1301:PHE:CG	2.54	0.42
2:J:2073:ASN:O	2:J:2076:LYS:N	2.51	0.42
2:J:317:TRP:CD1	2:J:454:ASP:CG	2.92	0.42
2:J:914:TRP:CD1	2:J:916:GLY:N	2.87	0.42
2:K:1084:LYS:O	2:K:1088:ASP:CB	2.66	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:O	2.19	0.42
2:K:1910:VAL:CG1	2:K:1973:ILE:HG21	2.50	0.42
2:K:1910:VAL:HG13	2:K:1974:GLN:HE22	1.85	0.42
2:K:595:SER:HB3	2:K:602:PRO:HD3	2.00	0.42
2:K:737:PHE:O	2:K:739:ILE:HG13	2.19	0.42
2:K:743:TRP:CZ2	2:K:757:PHE:HA	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1050:SER:HA	2:L:1064:THR:HG21	2.01	0.42
2:L:1113:ILE:HG22	2:L:1114:GLU:N	2.33	0.42
2:L:1400:GLN:HG3	2:L:1448:ARG:HH12	1.83	0.42
2:L:2009:PHE:HD2	2:L:2009:PHE:O	2.02	0.42
2:L:31:LEU:HD13	2:L:75:LEU:HG	2.00	0.42
1:A:1369:LEU:HD11	1:A:1642:LEU:HD21	2.00	0.42
1:A:983:GLN:O	1:A:1418:ILE:HD13	2.19	0.42
1:A:1599:MET:HA	1:A:1602:PHE:HD2	1.85	0.42
1:A:363:GLU:O	1:A:366:LYS:HB2	2.19	0.42
1:A:45:VAL:HB	2:G:1692:TYR:HD2	1.84	0.42
1:A:626:TRP:CE3	1:A:898:PHE:HB2	2.55	0.42
1:A:902:ASN:OD1	1:A:905:LEU:HD12	2.19	0.42
1:B:1060:ASP:HB2	1:B:1063:ASP:OD2	2.19	0.42
1:B:1394:PRO:HB3	1:B:1627:PHE:CE2	2.54	0.42
1:B:336:PHE:HA	1:B:339:GLN:HB2	2.01	0.42
1:B:427:ARG:O	1:B:430:VAL:HB	2.19	0.42
1:B:715:ASN:ND2	3:B:1901:NAP:H62A	2.18	0.42
1:B:767:HIS:NE2	1:B:771:LEU:HD22	2.33	0.42
1:C:1080:LEU:HA	1:C:1080:LEU:HD23	1.84	0.42
1:C:746:PHE:CD2	3:C:1901:NAP:H4D	2.54	0.42
1:D:1051:VAL:HG13	1:D:1057:GLU:O	2.18	0.42
1:D:1160:VAL:HB	1:D:1352:MET:HE1	2.00	0.42
1:D:1554:LEU:HD23	1:D:1606:VAL:HG12	2.00	0.42
1:D:427:ARG:HD2	1:D:490:VAL:HG12	2.00	0.42
1:D:751:GLU:OE1	1:D:770:MET:HE1	2.20	0.42
1:E:1321:MET:HB3	1:E:1321:MET:HE2	1.87	0.42
1:E:1527:THR:OG1	1:E:1530:ASN:HB3	2.20	0.42
1:E:1623:THR:CG2	1:E:1633:GLN:HB2	2.48	0.42
1:F:1674:ILE:HD12	2:L:1010:ALA:CB	2.48	0.42
2:G:1346:MET:CE	2:G:1617:ARG:HH21	2.33	0.42
2:G:1639:MET:HB3	2:G:1639:MET:HE3	1.86	0.42
2:G:2058:VAL:O	2:G:2062:THR:HB	2.19	0.42
2:G:416:GLN:C	2:G:418:ARG:H	2.22	0.42
2:G:511:THR:O	2:G:512:HIS:CD2	2.72	0.42
2:G:595:SER:HB3	2:G:602:PRO:HD3	2.00	0.42
2:G:785:SER:O	2:G:789:TYR:HB2	2.20	0.42
2:H:1358:THR:O	2:H:1361:ILE:HG13	2.20	0.42
2:H:1359:LYS:O	2:H:1362:PHE:HD1	2.02	0.42
2:H:378:ILE:O	2:H:378:ILE:HG22	2.19	0.42
2:H:173:PHE:CE2	2:H:516:PHE:HB2	2.53	0.42
2:I:1337:ASP:CA	2:I:1342:PHE:HD1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1289:TYR:CD2	2:I:1370:LEU:HD23	2.52	0.42
2:I:1653:LEU:HD21	2:I:1667:VAL:HG13	2.01	0.42
2:I:1886:VAL:CG1	2:I:1900:LEU:HD11	2.50	0.42
2:I:226:ASP:OD2	2:I:229:GLN:HB2	2.19	0.42
2:I:416:GLN:HE22	2:I:425:LYS:H	1.67	0.42
2:I:534:GLY:O	2:I:571:ASP:HA	2.19	0.42
2:I:611:THR:HG21	2:I:817:MET:CE	2.49	0.42
2:I:916:GLY:O	2:I:924:VAL:HG23	2.19	0.42
2:J:1389:LEU:N	2:J:1389:LEU:HD23	2.34	0.42
1:C:893:GLN:OE1	2:J:1751:GLY:HA2	2.19	0.42
2:J:2058:VAL:O	2:J:2062:THR:HB	2.19	0.42
2:J:433:LEU:HA	2:J:434:PRO:HD3	1.81	0.42
2:J:776:LEU:HG	2:J:807:PHE:CD2	2.53	0.42
2:K:1026:LYS:HG2	2:K:1027:PRO:HD2	2.01	0.42
2:K:1114:GLU:HB3	2:K:1169:TYR:CB	2.46	0.42
2:K:1309:PHE:N	2:K:1309:PHE:CD1	2.87	0.42
2:K:1886:VAL:CG1	2:K:1900:LEU:HD11	2.49	0.42
2:K:60:THR:HG22	2:K:62:GLU:H	1.84	0.42
2:K:615:TRP:HB2	2:K:648:ILE:HG13	2.01	0.42
2:K:887:ASP:O	2:K:888:ARG:C	2.57	0.42
2:L:1009:ASN:HA	2:L:1009:ASN:HD22	1.56	0.42
2:L:1769:VAL:HG13	2:L:1774:SER:C	2.39	0.42
2:L:196:PHE:CD1	2:L:266:LYS:HB3	2.54	0.42
2:L:420:PRO:HG3	2:L:847:TYR:CE1	2.55	0.42
2:L:685:VAL:HG13	2:L:686:PRO:HD2	2.01	0.42
2:L:709:LEU:HD23	2:L:709:LEU:N	2.29	0.42
1:A:1495:ARG:O	1:A:1496:ARG:HB3	2.18	0.42
1:A:1574:LEU:HA	1:A:1574:LEU:HD12	1.86	0.42
1:A:49:PRO:HG2	2:G:1810:LEU:HD21	2.02	0.42
1:A:655:ALA:CB	1:A:742:TYR:HB2	2.49	0.42
1:B:1167:GLY:O	1:B:1172:ARG:NH1	2.53	0.42
1:B:337:LYS:O	1:B:341:GLU:HG2	2.20	0.42
1:B:546:ARG:HH11	1:B:631:LYS:NZ	2.14	0.42
1:B:662:ALA:HA	1:B:694:TYR:OH	2.20	0.42
1:B:93:GLU:HA	1:B:94:PRO:HD3	1.82	0.42
1:C:1494:TRP:CG	1:C:1505:GLY:HA3	2.53	0.42
1:C:584:ILE:H	1:C:584:ILE:HG12	1.67	0.42
1:C:848:ARG:HG2	1:C:871:PHE:O	2.19	0.42
1:D:1011:ARG:NH1	1:D:1012:TRP:HA	2.34	0.42
1:D:1527:THR:OG1	1:D:1530:ASN:HB3	2.19	0.42
1:D:430:VAL:HG12	1:D:434:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:577:LEU:HB2	1:D:579:MET:HG3	2.00	0.42
1:D:633:THR:O	1:D:637:LEU:HB2	2.19	0.42
1:D:960:ARG:HH11	1:D:960:ARG:HG3	1.85	0.42
1:E:1129:ILE:HG22	1:E:1139:THR:O	2.19	0.42
1:E:1162:GLY:O	1:E:1354:SER:HA	2.19	0.42
1:E:1647:ASP:C	1:E:1649:ALA:N	2.72	0.42
1:E:427:ARG:O	1:E:430:VAL:HB	2.19	0.42
1:E:539:THR:HA	1:E:542:GLN:HE21	1.85	0.42
1:E:881:LEU:O	1:E:884:MET:HB2	2.19	0.42
1:F:1157:ASP:O	1:F:1159:LEU:HD12	2.19	0.42
1:C:1480:ARG:HH21	1:F:1488:SER:HB2	1.85	0.42
1:F:336:PHE:HA	1:F:339:GLN:HB2	2.02	0.42
1:F:631:LYS:O	1:F:635:ILE:HG22	2.19	0.42
1:F:883:LEU:HD23	1:F:883:LEU:N	2.33	0.42
2:G:1104:ASP:N	2:G:1104:ASP:OD1	2.52	0.42
2:G:1106:LYS:HA	2:G:1106:LYS:HD3	1.75	0.42
2:G:1236:LEU:HD12	2:G:1242:ILE:HA	2.02	0.42
2:G:1389:LEU:HD23	2:G:1389:LEU:N	2.34	0.42
2:G:1981:GLU:O	2:G:1984:PRO:HG3	2.20	0.42
2:G:290:VAL:CG1	2:G:314:LEU:HD23	2.48	0.42
2:G:601:PRO:HA	2:G:602:PRO:HD3	1.85	0.42
2:G:765:TYR:CD2	2:G:805:MET:HG2	2.54	0.42
2:H:80:ILE:HG12	2:H:105:ILE:HG22	2.01	0.42
2:H:1236:LEU:HD12	2:H:1241:GLU:O	2.19	0.42
2:H:1442:TYR:CG	2:H:1499:LYS:O	2.73	0.42
2:H:1520:LYS:HD2	2:H:1520:LYS:N	2.34	0.42
2:H:1764:MET:O	2:H:1780:ILE:HG13	2.19	0.42
2:H:1960:MET:HB3	2:H:1964:ASP:HB2	2.02	0.42
2:H:2038:LYS:HA	2:H:2038:LYS:HD3	1.89	0.42
2:H:613:VAL:HG12	2:H:614:PRO:HD3	1.99	0.42
2:H:743:TRP:CD1	2:H:761:ILE:HD11	2.54	0.42
2:H:828:ALA:O	2:H:832:ILE:HG13	2.19	0.42
2:I:1248:GLU:OE2	2:I:1250:ARG:HG2	2.19	0.42
1:C:942:VAL:O	2:I:1536:HIS:HB2	2.19	0.42
2:I:1911:THR:HG21	2:I:1977:ARG:HB2	2.02	0.42
2:I:41:LEU:HD13	2:I:100:GLU:HB3	2.02	0.42
2:I:506:VAL:CG1	2:I:506:VAL:O	2.61	0.42
2:I:763:LEU:HD12	2:I:763:LEU:HA	1.88	0.42
2:I:872:GLY:HA2	2:I:909:ASP:O	2.20	0.42
2:I:937:ARG:NE	2:I:941:LEU:CD1	2.82	0.42
2:J:1248:GLU:OE2	2:J:1250:ARG:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1291:ARG:HD2	2:J:1297:LYS:HB3	2.02	0.42
2:J:1323:ASP:C	2:J:1583:VAL:HG11	2.39	0.42
2:J:200:LEU:H	2:J:200:LEU:HD23	1.84	0.42
2:J:472:THR:CG2	2:J:499:VAL:HG22	2.50	0.42
2:J:573:VAL:O	2:J:577:GLY:HA3	2.20	0.42
2:J:718:PRO:HG2	2:J:741:LEU:CD1	2.49	0.42
2:J:790:PRO:HA	2:J:795:SER:OG	2.20	0.42
2:J:929:MET:HE1	2:J:934:VAL:HA	2.00	0.42
2:K:1481:ILE:HG13	2:K:1481:ILE:O	2.19	0.42
2:K:1436:ARG:NH2	2:K:1602:LEU:HD11	2.34	0.42
2:K:1835:GLY:HA3	2:K:1839:GLY:C	2.40	0.42
2:K:1939:LEU:O	2:K:1943:LEU:HG	2.20	0.42
2:K:1911:THR:HG21	2:K:1977:ARG:HB2	2.01	0.42
2:K:1948:MET:HG2	2:K:1993:PHE:CZ	2.55	0.42
1:E:23:ALA:HA	2:K:2007:SER:O	2.19	0.42
2:K:594:MET:SD	2:K:809:GLY:HA3	2.59	0.42
2:K:605:VAL:O	2:K:628:ILE:HA	2.20	0.42
2:L:48:LEU:HD11	2:L:101:VAL:HG11	2.00	0.42
4:L:2101:FMN:H9	4:L:2101:FMN:H1'2	1.86	0.42
2:L:219:LYS:HB2	2:L:220:GLN:NE2	2.34	0.42
2:L:174:GLY:HA3	2:L:518:PRO:HD2	2.02	0.42
2:L:601:PRO:HA	2:L:602:PRO:HD3	1.79	0.42
2:L:796:TRP:CG	2:L:797:SER:N	2.87	0.42
2:L:980:LEU:HB2	2:L:996:ILE:CD1	2.49	0.42
1:A:535:TYR:CE1	1:F:580:ASN:HB3	2.55	0.42
1:A:662:ALA:HA	1:A:694:TYR:OH	2.19	0.42
1:A:667:ALA:O	1:A:671:GLN:HG3	2.19	0.42
1:A:853:MET:HG2	1:A:856:ASN:ND2	2.33	0.42
1:A:888:ILE:HA	1:A:891:LEU:HD12	2.02	0.42
1:B:1702:ARG:CG	1:B:1702:ARG:NH1	2.41	0.42
1:B:799:LEU:HD11	1:B:824:LEU:HD12	2.00	0.42
1:C:1162:GLY:O	1:C:1354:SER:HA	2.20	0.42
1:C:427:ARG:HG3	1:C:492:ILE:HG12	2.02	0.42
1:C:751:GLU:OE1	1:C:770:MET:HE1	2.19	0.42
1:B:1104:GLN:HE22	1:D:1106:LEU:HD12	1.84	0.42
1:D:1183:VAL:HG11	1:D:1187:THR:CG2	2.46	0.42
1:D:1592:ALA:O	1:D:1593:ASP:C	2.56	0.42
1:D:452:ILE:HG22	1:D:453:ASP:N	2.34	0.42
1:D:681:ILE:O	1:D:681:ILE:HG23	2.19	0.42
1:A:1241:LEU:CD2	1:E:1097:LEU:HD12	2.49	0.42
1:E:848:ARG:HG2	1:E:871:PHE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1071:TYR:CD2	1:F:1071:TYR:C	2.92	0.42
1:F:1393:VAL:N	1:F:1394:PRO:HD3	2.33	0.42
1:F:533:SER:OG	1:F:612:ILE:HG13	2.19	0.42
1:F:626:TRP:CE3	1:F:898:PHE:HB2	2.55	0.42
2:G:1309:PHE:CD1	2:G:1309:PHE:N	2.87	0.42
2:G:204:ILE:CG2	2:G:312:VAL:HG11	2.48	0.42
2:G:606:ALA:HB2	2:G:811:MET:CG	2.47	0.42
2:G:890:LYS:HB2	2:G:890:LYS:HE3	1.80	0.42
2:G:950:TRP:CE2	2:G:956:LYS:HG3	2.54	0.42
1:C:71:ALA:HB3	2:H:371:HIS:HB2	2.02	0.42
2:H:44:GLN:O	2:H:48:LEU:HG	2.20	0.42
2:I:928:ASP:O	2:I:1007:LEU:HD23	2.19	0.42
2:I:1047:LEU:H	2:I:1047:LEU:CD1	2.29	0.42
2:I:1299:VAL:HG22	2:I:1301:PHE:CG	2.55	0.42
2:I:1410:GLY:HA2	2:I:1437:GLY:O	2.19	0.42
2:I:1745:LEU:HD12	2:I:1746:THR:N	2.35	0.42
2:I:2039:TYR:C	2:I:2039:TYR:CD2	2.93	0.42
2:I:318:ILE:HA	2:I:451:ILE:HD13	2.01	0.42
2:I:666:ASN:N	2:I:667:PRO:HD3	2.34	0.42
2:J:912:LYS:HE2	2:J:1028:VAL:O	2.19	0.42
2:J:1096:LYS:HD2	2:J:1100:ARG:NH2	2.34	0.42
2:J:1236:LEU:HD21	2:J:1239:ASP:O	2.19	0.42
2:J:1259:LEU:HD11	2:J:1285:ILE:HG12	2.01	0.42
2:J:1637:VAL:HG12	2:J:1679:LEU:HD22	2.02	0.42
2:J:1731:GLY:O	2:J:1747:VAL:HG12	2.19	0.42
2:J:1981:GLU:O	2:J:1984:PRO:HG3	2.20	0.42
2:J:1044:LYS:HE2	3:J:2102:NAP:H4B	2.02	0.42
2:J:398:LEU:HD23	2:J:398:LEU:HA	1.88	0.42
2:J:724:ILE:O	2:J:727:VAL:HG23	2.20	0.42
2:J:754:PHE:CD1	2:J:754:PHE:N	2.86	0.42
2:J:791:TYR:HD2	2:J:796:TRP:CG	2.37	0.42
2:J:894:GLU:CD	2:J:897:LYS:HD3	2.40	0.42
2:K:208:LEU:HD23	2:K:211:LEU:HD12	2.02	0.42
4:K:2101:FMN:H1'2	4:K:2101:FMN:H9	1.87	0.42
2:K:347:PRO:HA	2:K:432:PHE:CE1	2.55	0.42
2:K:664:TYR:OH	2:K:701:VAL:HG11	2.19	0.42
2:K:747:ARG:NH1	2:K:780:SER:O	2.52	0.42
2:K:578:PRO:HG3	2:K:792:LEU:O	2.20	0.42
2:L:1491:ARG:O	2:L:1492:LEU:HD23	2.19	0.42
2:L:1510:ILE:HA	2:L:1528:VAL:O	2.18	0.42
2:L:1760:ASN:O	2:L:1764:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:29:ILE:HG13	2:L:1920:TYR:O	2.19	0.42
1:F:26:VAL:HG21	2:L:2006:HIS:CE1	2.54	0.42
2:L:347:PRO:HA	2:L:432:PHE:CE1	2.54	0.42
2:L:791:TYR:HD2	2:L:796:TRP:CG	2.37	0.42
1:A:1219:GLY:CA	1:A:1272:PRO:HD2	2.49	0.42
1:A:916:THR:HA	1:A:919:ARG:HB2	2.00	0.42
1:B:406:ALA:HB2	1:B:439:ARG:HD2	2.00	0.42
1:B:914:LEU:O	1:B:917:LYS:HB3	2.19	0.42
1:C:1232:LEU:HD23	1:C:1232:LEU:HA	1.79	0.42
1:C:1525:THR:O	1:C:1526:SER:HB3	2.19	0.42
1:D:1654:TYR:CZ	1:D:1658:VAL:HG21	2.54	0.42
1:D:620:LYS:HE3	1:D:626:TRP:CZ2	2.55	0.42
1:D:756:ILE:HA	1:D:759:ILE:CD1	2.48	0.42
1:D:885:ALA:HA	1:D:886:PRO:HD3	1.89	0.42
1:E:1185:PRO:O	1:E:1188:LEU:HB2	2.19	0.42
1:E:1232:LEU:HD23	1:E:1253:SER:HB2	2.02	0.42
1:E:711:VAL:HG12	1:E:712:VAL:H	1.84	0.42
1:E:754:ARG:N	1:E:810:ASN:HB3	2.35	0.42
1:F:1301:VAL:HG22	1:F:1302:CYS:N	2.35	0.42
1:F:782:LYS:NZ	1:F:786:LYS:HD2	2.34	0.42
1:F:999:LEU:HD23	1:F:999:LEU:HA	1.74	0.42
2:G:1175:MET:O	2:G:1192:LEU:HD12	2.20	0.42
2:G:1229:VAL:CG1	2:G:1230:LYS:N	2.83	0.42
2:G:1315:ILE:HA	2:G:1393:ASP:O	2.20	0.42
2:G:1332:GLY:C	2:G:1334:ALA:N	2.72	0.42
2:G:1359:LYS:O	2:G:1362:PHE:HD1	2.03	0.42
2:G:1499:LYS:CG	2:G:1500:ASN:H	2.25	0.42
2:G:1515:LEU:HB2	2:G:1525:VAL:HG21	2.02	0.42
2:G:36:LEU:HA	2:G:36:LEU:HD12	1.91	0.42
2:G:317:TRP:CD1	2:G:454:ASP:OD2	2.73	0.42
2:G:283:THR:HG23	2:G:470:TYR:O	2.20	0.42
2:G:704:GLU:OE1	2:G:704:GLU:HA	2.19	0.42
2:H:1234:ILE:HG22	2:H:1242:ILE:HG22	2.01	0.42
2:H:1248:GLU:OE2	2:H:1250:ARG:NE	2.47	0.42
2:H:1400:GLN:HG3	2:H:1448:ARG:HH12	1.85	0.42
2:H:1982:ALA:C	2:H:1984:PRO:HD3	2.40	0.42
2:I:1204:VAL:HG22	2:I:1219:VAL:HG22	2.02	0.42
2:I:1915:LEU:HB2	2:I:1935:ALA:HB1	2.00	0.42
2:I:1914:LEU:O	2:I:1931:GLY:HA3	2.20	0.42
2:I:204:ILE:CG2	2:I:312:VAL:HG11	2.48	0.42
2:I:248:VAL:O	2:I:252:LEU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:174:GLY:HA2	2:I:524:ILE:CG1	2.49	0.42
2:I:613:VAL:H	2:I:614:PRO:HD3	1.85	0.42
2:I:917:ARG:NH1	2:I:917:ARG:CG	2.45	0.42
2:J:1456:LEU:HD11	2:J:1543:TYR:CE2	2.48	0.42
2:J:1481:ILE:HD12	2:J:1515:LEU:CD2	2.47	0.42
2:J:1762:MET:HA	2:J:1779:LYS:HE2	2.02	0.42
4:J:2101:FMN:O4'	4:J:2101:FMN:H1'2	2.19	0.42
2:J:374:GLU:CA	2:J:377:HIS:CD2	2.80	0.42
2:J:560:ASP:HB3	2:J:565:ALA:HB1	2.00	0.42
2:J:717:LYS:HD2	4:J:2101:FMN:O2	2.20	0.42
2:J:818:THR:HG22	2:J:829:LYS:CB	2.43	0.42
2:J:907:ASN:HD21	2:J:917:ARG:HE	1.66	0.42
2:J:990:TYR:N	2:J:991:PRO:CD	2.83	0.42
2:K:1163:LEU:HD12	2:K:1163:LEU:HA	1.78	0.42
2:K:1113:ILE:HG23	2:K:1169:TYR:CD2	2.55	0.42
2:K:1328:VAL:HA	2:K:1611:TYR:CE1	2.49	0.42
2:K:1362:PHE:N	2:K:1363:PRO:CD	2.83	0.42
2:K:2050:ILE:O	2:K:2050:ILE:HG12	2.20	0.42
2:K:248:VAL:O	2:K:252:LEU:HB2	2.19	0.42
2:K:52:PHE:CD2	2:K:79:TYR:HD1	2.37	0.42
2:K:626:TYR:OH	2:K:1088:ASP:HA	2.19	0.42
2:K:649:GLU:HG3	2:K:650:LYS:N	2.35	0.42
2:K:673:GLN:O	2:K:676:LEU:HB3	2.20	0.42
2:K:865:ILE:HG21	2:K:867:LYS:HE3	2.02	0.42
2:K:857:VAL:CG2	2:K:877:LYS:HB2	2.49	0.42
2:L:1353:GLY:HA2	2:L:1397:THR:HG21	2.02	0.42
2:L:1940:ALA:HA	2:L:1995:THR:HG21	2.01	0.42
2:L:501:TRP:CZ2	2:L:524:ILE:HG21	2.54	0.42
2:L:512:HIS:HE1	2:L:566:VAL:HG13	1.84	0.42
2:L:754:PHE:CD1	2:L:754:PHE:N	2.88	0.42
1:A:1488:SER:O	1:E:1480:ARG:NH2	2.47	0.42
1:A:409:ASP:HB2	1:A:439:ARG:HH12	1.83	0.42
1:B:1674:ILE:HD12	2:H:1010:ALA:CB	2.48	0.42
1:B:526:MET:CE	1:B:615:LEU:HG	2.50	0.42
1:B:526:MET:HE3	1:B:615:LEU:HG	2.01	0.42
1:C:447:PHE:CE1	1:C:451:HIS:NE2	2.87	0.42
1:C:623:PHE:O	1:C:624:GLY:C	2.58	0.42
1:C:852:LEU:O	1:C:852:LEU:HD23	2.20	0.42
1:D:1232:LEU:HA	1:D:1232:LEU:HD23	1.72	0.42
1:D:1672:GLY:O	1:D:1676:ASN:N	2.52	0.42
1:D:447:PHE:CE1	1:D:451:HIS:NE2	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:484:PRO:HA	1:D:485:PRO:HD3	1.77	0.42
1:D:626:TRP:CZ3	1:D:898:PHE:HB2	2.55	0.42
1:D:898:PHE:CD2	1:D:899:ALA:N	2.88	0.42
1:E:1060:ASP:HB2	1:E:1063:ASP:OD2	2.19	0.42
1:E:1157:ASP:O	1:E:1327:ALA:HB3	2.20	0.42
1:E:422:LEU:HD13	1:E:429:ILE:HG23	2.02	0.42
1:E:767:HIS:NE2	1:E:771:LEU:HD22	2.35	0.42
1:E:859:VAL:HG12	1:E:859:VAL:O	2.19	0.42
1:E:955:VAL:O	2:K:978:SER:N	2.48	0.42
1:F:1157:ASP:O	1:F:1327:ALA:HB3	2.19	0.42
1:F:422:LEU:HD13	1:F:429:ILE:HG23	2.02	0.42
2:G:1084:LYS:O	2:G:1088:ASP:CB	2.65	0.42
2:G:1115:TYR:OH	2:G:1173:HIS:HD2	2.02	0.42
2:G:1383:VAL:HA	2:G:1384:PRO:HD3	1.90	0.42
1:A:41:THR:HA	2:G:1689:VAL:HB	2.02	0.42
2:G:1744:GLU:HA	2:G:1799:LEU:HD11	2.02	0.42
2:G:863:GLU:HA	2:G:864:PRO:HD3	1.81	0.42
2:G:327:PRO:CD	2:H:1338:ARG:HH21	2.33	0.42
2:H:1871:VAL:HG21	2:H:2004:PRO:HD3	2.02	0.42
2:H:541:LEU:HG	2:H:552:VAL:HG11	2.02	0.42
2:H:571:ASP:HB3	2:H:574:LYS:HB2	2.02	0.42
2:H:578:PRO:HG3	2:H:792:LEU:O	2.20	0.42
2:I:819:ALA:HA	2:I:1081:GLU:O	2.20	0.42
2:I:1318:ALA:HB2	2:I:1391:VAL:HG11	2.00	0.42
2:I:1618:SER:O	2:I:1621:GLU:HB2	2.19	0.42
2:I:1769:VAL:HG13	2:I:1774:SER:C	2.39	0.42
2:I:1725:HIS:CD2	2:I:1854:GLU:HB2	2.54	0.42
2:I:2020:PHE:O	2:I:2024:LYS:HG2	2.20	0.42
2:I:646:SER:O	2:I:649:GLU:HG2	2.20	0.42
2:I:724:ILE:O	2:I:727:VAL:HG23	2.20	0.42
2:I:838:VAL:HG12	2:I:839:ASP:N	2.35	0.42
2:J:1204:VAL:HG22	2:J:1219:VAL:HG22	2.01	0.42
2:J:1340:LYS:CG	2:L:376:ARG:HH22	2.32	0.42
2:J:1646:ASN:HA	2:J:1646:ASN:HD22	1.69	0.42
2:J:2010:LEU:O	2:J:2014:VAL:HG23	2.19	0.42
2:J:248:VAL:O	2:J:252:LEU:HB2	2.19	0.42
2:J:595:SER:HB3	2:J:602:PRO:HD3	2.01	0.42
2:K:868:LEU:HD21	2:K:1068:GLN:HG3	2.02	0.42
2:K:1083:ILE:HG13	2:K:1083:ILE:H	1.51	0.42
2:K:1455:GLN:HB2	2:K:1551:ILE:CG1	2.50	0.42
1:E:22:PHE:CE1	2:K:1867:MET:HG3	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:583:THR:HG22	2:K:1115:TYR:HA	2.01	0.42
2:K:604:MET:HE1	2:K:777:VAL:HG11	2.02	0.42
1:E:960:ARG:HD3	2:K:969:ARG:NH2	2.34	0.42
2:L:835:ALA:HB3	2:L:1073:ALA:HB1	2.00	0.42
2:L:1178:THR:HG22	2:L:1180:VAL:N	2.31	0.42
2:L:1410:GLY:HA2	2:L:1437:GLY:O	2.19	0.42
2:L:202:THR:O	2:L:205:ALA:HB3	2.19	0.42
2:L:465:LEU:HD13	2:L:469:VAL:HB	2.01	0.42
2:L:472:THR:CG2	2:L:499:VAL:HG22	2.50	0.42
2:L:511:THR:CG2	2:L:512:HIS:HD2	2.19	0.42
2:L:578:PRO:HG3	2:L:792:LEU:O	2.18	0.42
2:L:607:GLY:HA2	2:L:612:THR:HG21	2.02	0.42
2:L:615:TRP:O	2:L:618:VAL:HG13	2.20	0.42
2:L:740:ILE:HA	2:L:775:VAL:HB	2.00	0.42
2:L:866:HIS:HB3	2:L:1068:GLN:O	2.19	0.42
2:L:937:ARG:NE	2:L:941:LEU:CD1	2.81	0.42
1:A:1191:LEU:HA	1:A:1191:LEU:HD23	1.90	0.42
1:A:1522:PHE:CD2	1:A:1534:GLU:HB3	2.55	0.42
1:A:802:SER:HA	1:A:803:PRO:HD3	1.80	0.42
1:B:526:MET:HE1	1:B:614:PHE:HB3	2.01	0.42
1:B:711:VAL:HG12	1:B:712:VAL:H	1.84	0.42
1:B:746:PHE:CG	3:B:1901:NAP:H4D	2.54	0.42
1:B:833:TRP:HH2	1:B:839:ILE:HD11	1.83	0.42
1:B:916:THR:HA	1:B:919:ARG:HB2	2.01	0.42
1:C:1275:THR:HA	1:C:1276:PRO:HD3	1.53	0.42
1:C:1446:GLU:HA	1:C:1449:ALA:HB3	2.01	0.42
1:D:1184:ASP:OD1	1:D:1185:PRO:HD2	2.19	0.42
1:D:1207:TYR:CE2	1:D:1682:LYS:HD2	2.54	0.42
1:D:1420:TYR:O	1:D:1424:GLN:HG2	2.20	0.42
1:D:46:GLU:HB3	1:D:80:CYS:HA	2.02	0.42
1:D:527:ALA:HA	1:D:613:PRO:HB3	2.01	0.42
1:D:902:ASN:C	1:D:904:GLY:H	2.23	0.42
1:E:549:TYR:O	1:E:553:ARG:HB3	2.20	0.42
1:E:868:VAL:HG22	1:E:869:ARG:H	1.84	0.42
1:E:626:TRP:CD2	1:E:898:PHE:HD1	2.37	0.42
1:F:1011:ARG:HH11	1:F:1012:TRP:HA	1.84	0.42
1:F:1011:ARG:NH1	1:F:1012:TRP:HA	2.35	0.42
1:F:1672:GLY:O	1:F:1676:ASN:N	2.53	0.42
1:A:831:GLU:HG2	1:F:755:GLU:HG2	2.02	0.42
2:G:162:ALA:CA	2:G:167:VAL:HG22	2.48	0.42
2:G:1751:GLY:O	2:G:1752:PRO:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:208:LEU:HD23	2:G:211:LEU:HD12	2.02	0.42
2:G:444:LEU:HA	2:G:444:LEU:HD23	1.75	0.42
2:G:790:PRO:HA	2:G:795:SER:OG	2.19	0.42
2:H:1163:LEU:HD12	2:H:1163:LEU:HA	1.85	0.42
2:H:1238:GLY:O	2:H:1239:ASP:HB2	2.19	0.42
2:H:1726:PHE:CE1	2:H:1857:VAL:HB	2.55	0.42
1:C:71:ALA:CB	2:H:371:HIS:HB2	2.50	0.42
2:H:815:ARG:NH2	2:H:1086:ILE:CG2	2.83	0.42
2:I:835:ALA:HB3	2:I:1073:ALA:HB1	2.00	0.42
2:I:1160:PHE:O	2:I:1164:ILE:HG13	2.20	0.42
2:I:1945:ILE:HG22	2:I:1946:LEU:N	2.34	0.42
2:I:1966:ARG:HG3	2:I:1967:ALA:N	2.34	0.42
2:I:1972:ILE:HG13	2:I:1972:ILE:H	1.41	0.42
2:I:202:THR:O	2:I:205:ALA:HB3	2.20	0.42
2:I:311:ALA:O	2:I:314:LEU:HB3	2.20	0.42
2:I:501:TRP:C	2:I:501:TRP:CD1	2.94	0.42
2:J:1470:LYS:HD3	2:J:1470:LYS:HA	1.89	0.42
2:J:437:ALA:HA	2:J:438:PRO:HD3	1.81	0.42
2:J:521:VAL:HG13	2:J:549:ASN:HB2	2.01	0.42
2:J:604:MET:CE	2:J:811:MET:HB2	2.48	0.42
2:J:99:LEU:HA	2:J:99:LEU:HD23	1.92	0.42
2:K:1538:ASN:HA	2:K:1539:PRO:HD3	1.87	0.42
2:K:1662:ARG:NH1	2:K:1684:GLU:OE1	2.52	0.42
2:K:1766:PHE:HB2	2:K:1780:ILE:HG12	2.02	0.42
2:K:186:LEU:HD23	2:K:186:LEU:HA	1.84	0.42
2:K:2052:LYS:HG2	2:K:2052:LYS:H	1.38	0.42
2:K:258:LEU:HD12	2:K:291:VAL:HG13	2.00	0.42
2:K:465:LEU:HD13	2:K:469:VAL:HB	2.01	0.42
2:K:821:GLU:OE2	2:K:1083:ILE:HG13	2.20	0.42
2:L:1022:ARG:HG3	2:L:1022:ARG:H	1.63	0.42
2:L:1442:TYR:CG	2:L:1499:LYS:O	2.73	0.42
2:L:1603:PRO:HB2	2:L:1644:LEU:HD21	2.02	0.42
2:L:220:GLN:O	2:L:222:PRO:HD3	2.19	0.42
2:L:560:ASP:HB3	2:L:565:ALA:HB1	2.01	0.42
2:L:608:MET:HA	4:L:2101:FMN:C5A	2.49	0.42
2:L:724:ILE:O	2:L:727:VAL:HG23	2.19	0.42
1:A:1004:PRO:HD3	1:A:1572:TRP:HH2	1.82	0.42
1:A:1389:ILE:HG13	1:E:1268:SER:CB	2.20	0.42
1:A:1470:ARG:HD3	1:A:1470:ARG:HA	1.83	0.42
1:A:21:GLN:HE22	2:G:1841:TYR:HE1	1.68	0.42
1:A:960:ARG:HH12	2:G:968:GLU:CD	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1574:LEU:HD12	1:B:1574:LEU:HA	1.83	0.42
1:B:1554:LEU:HD23	1:B:1606:VAL:HG12	2.02	0.42
1:B:27:ARG:H	1:B:27:ARG:HG2	1.38	0.42
1:B:632:LEU:CA	1:B:635:ILE:HG22	2.45	0.42
1:B:869:ARG:HB2	1:B:869:ARG:HE	1.64	0.42
1:C:1052:ASP:O	1:C:1055:THR:O	2.38	0.42
1:C:1301:VAL:HG23	1:C:1363:MET:HG3	2.00	0.42
1:C:1589:ASN:ND2	1:C:1589:ASN:C	2.74	0.42
1:C:1651:TYR:CE2	1:C:1655:CYS:SG	3.13	0.42
1:C:611:THR:HG22	1:C:612:ILE:N	2.35	0.42
1:D:1080:LEU:HD23	1:D:1080:LEU:HA	1.85	0.42
1:D:13:LEU:HD11	2:J:2058:VAL:HG21	2.02	0.42
1:D:983:GLN:HB3	1:D:1418:ILE:HG21	2.02	0.42
1:D:930:GLN:H	1:D:930:GLN:HG2	1.72	0.42
1:D:965:TYR:HE1	1:D:1669:PHE:CD1	2.38	0.42
1:E:1071:TYR:C	1:E:1071:TYR:CD2	2.93	0.42
1:E:1160:VAL:C	1:E:1352:MET:HE1	2.40	0.42
1:E:902:ASN:O	1:E:904:GLY:N	2.52	0.42
1:E:916:THR:HA	1:E:919:ARG:HB2	2.02	0.42
1:C:1237:LYS:HB2	1:F:1236:TYR:O	2.20	0.42
1:F:1363:MET:HE3	1:F:1368:ALA:CB	2.49	0.42
1:F:363:GLU:O	1:F:366:LYS:HB2	2.20	0.42
1:A:566:PHE:HE1	1:F:552:ILE:HD11	1.85	0.42
1:F:902:ASN:OD1	1:F:905:LEU:HD12	2.20	0.42
2:G:1057:TYR:C	2:G:1059:GLN:H	2.23	0.42
2:G:1343:PHE:CE2	2:G:1388:PRO:HD2	2.55	0.42
2:G:1400:GLN:HG3	2:G:1448:ARG:NH1	2.32	0.42
2:G:1510:ILE:HA	2:G:1528:VAL:O	2.20	0.42
2:G:1335:PHE:CZ	2:G:1629:ILE:HD13	2.55	0.42
2:G:1743:LYS:HA	2:G:1798:GLY:HA2	2.02	0.42
2:G:479:ARG:C	2:G:481:LEU:H	2.23	0.42
2:G:723:ALA:O	2:G:726:GLN:HB2	2.20	0.42
2:G:791:TYR:CD2	2:G:796:TRP:CG	3.07	0.42
2:H:1207:THR:HB	2:H:1216:VAL:HB	2.02	0.42
2:H:129:ILE:HG21	2:H:132:LYS:HD2	2.01	0.42
2:H:1337:ASP:HB2	2:H:1342:PHE:CD1	2.54	0.42
2:H:1515:LEU:CB	2:H:1525:VAL:HG21	2.50	0.42
2:H:1745:LEU:HB3	2:H:1799:LEU:CD2	2.50	0.42
2:H:2053:GLU:HG3	2:H:2053:GLU:H	1.67	0.42
2:H:608:MET:HA	4:H:2101:FMN:C5A	2.50	0.42
2:H:272:PRO:HG2	2:H:300:THR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:41:LEU:HD13	2:H:100:GLU:HB3	2.01	0.42
2:H:501:TRP:CZ2	2:H:528:THR:CG2	3.03	0.42
2:H:587:GLN:NE2	2:H:1268:GLU:HG2	2.35	0.42
2:H:690:LEU:HB2	2:H:711:ILE:HG21	2.02	0.42
2:I:48:LEU:HD11	2:I:101:VAL:HG11	2.02	0.42
2:I:589:PHE:CD1	2:I:1116:PHE:CD2	3.08	0.42
2:I:1404:VAL:HA	2:I:1412:MET:O	2.20	0.42
2:I:1706:MET:HE1	2:I:1735:ILE:HG23	2.02	0.42
2:I:1919:ASN:HA	2:I:1919:ASN:HD22	1.62	0.42
2:I:196:PHE:N	2:I:196:PHE:HD2	2.18	0.42
2:I:2057:GLU:HA	2:I:2060:ARG:HH12	1.78	0.42
2:I:481:LEU:C	2:I:483:ASP:H	2.24	0.42
2:I:609:THR:HG23	4:I:2101:FMN:O4	2.20	0.42
2:I:790:PRO:HA	2:I:795:SER:OG	2.20	0.42
2:I:827:GLN:O	2:I:830:GLN:HB3	2.20	0.42
2:I:938:MET:HE2	2:I:959:THR:HG22	2.02	0.42
2:J:1257:VAL:HA	2:J:1258:PRO:HD3	1.81	0.42
2:J:1340:LYS:CG	2:L:376:ARG:HH21	2.32	0.42
2:J:1472:TRP:CE2	2:J:1540:VAL:HG22	2.55	0.42
2:J:1783:GLU:CD	2:J:1783:GLU:H	2.24	0.42
2:J:664:TYR:OH	2:J:701:VAL:HG11	2.20	0.42
2:J:765:TYR:CD2	2:J:805:MET:HG2	2.55	0.42
2:K:1057:TYR:C	2:K:1059:GLN:H	2.23	0.42
2:K:155:ASP:N	2:K:155:ASP:OD1	2.53	0.42
2:K:612:THR:CG2	2:K:629:GLU:O	2.68	0.42
2:K:664:TYR:C	2:K:666:ASN:H	2.23	0.42
2:L:122:ILE:HD13	2:L:122:ILE:HA	1.94	0.42
2:L:1324:PHE:N	2:L:1583:VAL:HG11	2.35	0.42
2:L:1378:ASN:HD22	2:L:1431:SER:CB	2.33	0.42
2:L:1454:MET:HE2	2:L:1550:SER:CA	2.41	0.42
2:L:1520:LYS:HD2	2:L:1520:LYS:N	2.35	0.42
2:L:1537:GLY:O	2:L:1539:PRO:HD3	2.19	0.42
2:L:169:ILE:HG22	2:L:279:PHE:CD2	2.55	0.42
2:L:1939:LEU:O	2:L:1943:LEU:HG	2.19	0.42
2:L:248:VAL:O	2:L:252:LEU:HB2	2.20	0.42
2:L:351:LEU:HD22	2:L:352:SER:H	1.85	0.42
2:L:461:PRO:HB3	2:L:483:ASP:O	2.20	0.42
2:L:48:LEU:HG	2:L:48:LEU:H	1.51	0.42
2:L:60:THR:HG22	2:L:62:GLU:H	1.84	0.42
2:L:700:GLU:HA	2:L:703:ASN:HB2	2.02	0.42
2:L:744:THR:HG22	2:L:745:GLY:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:955:LEU:HD21	2:L:1026:LYS:O	2.20	0.42
1:A:1142:LEU:HD12	1:A:1142:LEU:H	1.85	0.41
1:A:569:LEU:O	1:A:573:VAL:HG23	2.20	0.41
1:A:397:ARG:HH12	1:A:692:THR:HG21	1.85	0.41
1:B:1207:TYR:CE2	1:B:1682:LYS:HD2	2.55	0.41
1:B:1214:HIS:CD2	1:B:1216:SER:OG	2.65	0.41
1:B:1682:LYS:HB3	1:D:1389:ILE:HD13	2.01	0.41
1:B:397:ARG:NH1	1:B:397:ARG:CG	2.48	0.41
1:B:562:SER:OG	1:E:551:LEU:HD21	2.20	0.41
1:C:1491:ASN:N	1:C:1491:ASN:ND2	2.67	0.41
1:C:458:GLU:CD	1:C:458:GLU:H	2.22	0.41
1:D:1160:VAL:HG11	1:D:1337:PRO:HB3	2.01	0.41
1:D:1651:TYR:CE2	1:D:1655:CYS:SG	3.13	0.41
1:D:686:ARG:NH2	3:D:1901:NAP:O2X	2.53	0.41
1:D:802:SER:HA	1:D:803:PRO:HD3	1.81	0.41
1:E:1082:GLU:HB2	1:E:1085:LEU:HD12	2.02	0.41
1:E:421:ARG:NH2	1:E:1613:LYS:CB	2.83	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:HD2	2.02	0.41
1:F:435:GLN:O	1:F:439:ARG:HG3	2.20	0.41
1:F:455:CYS:HA	1:F:456:PRO:HD3	1.84	0.41
1:F:654:HIS:O	1:F:741:ASP:HB2	2.20	0.41
1:F:744:VAL:HG12	1:F:746:PHE:CD1	2.55	0.41
1:F:904:GLY:HA2	1:F:906:GLN:CD	2.40	0.41
2:G:1337:ASP:HB2	2:G:1342:PHE:CD1	2.55	0.41
2:G:152:LYS:HA	2:G:153:PRO:HD3	1.81	0.41
2:G:1777:THR:O	2:G:1777:THR:HG23	2.20	0.41
2:G:1847:LEU:HD12	2:G:1847:LEU:N	2.35	0.41
2:G:211:LEU:HD13	2:G:313:GLU:HG3	2.02	0.41
2:G:396:ILE:N	2:G:396:ILE:HD12	2.31	0.41
2:G:720:SER:HB3	2:G:723:ALA:HB2	2.02	0.41
2:H:596:ARG:HD3	2:H:1119:ARG:HG3	2.02	0.41
2:H:1289:TYR:CB	2:H:1370:LEU:HD23	2.50	0.41
2:H:1802:ALA:CB	2:H:1804:GLN:HE22	2.27	0.41
2:H:1847:LEU:N	2:H:1847:LEU:HD12	2.35	0.41
2:H:197:VAL:HG13	2:H:200:LEU:HD21	2.02	0.41
2:H:420:PRO:HG3	2:H:847:TYR:HD1	1.85	0.41
2:H:459:LYS:HA	2:H:485:ASP:CG	2.40	0.41
2:H:649:GLU:HG3	2:H:650:LYS:N	2.34	0.41
2:I:580:LEU:HG	2:I:1098:LEU:HD23	2.01	0.41
2:I:1762:MET:HA	2:I:1779:LYS:HE2	2.01	0.41
2:I:174:GLY:HA3	2:I:518:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:560:ASP:HB3	2:I:565:ALA:HB1	2.01	0.41
2:I:698:SER:H	2:I:701:VAL:HG21	1.85	0.41
2:I:754:PHE:N	2:I:754:PHE:CD1	2.86	0.41
2:I:990:TYR:N	2:I:991:PRO:CD	2.82	0.41
2:J:1644:LEU:HB3	2:J:1645:PRO:CD	2.50	0.41
2:J:1966:ARG:HG3	2:J:1967:ALA:N	2.35	0.41
4:J:2101:FMN:H9	4:J:2101:FMN:H1'2	1.81	0.41
2:J:220:GLN:O	2:J:222:PRO:HD3	2.20	0.41
2:J:615:TRP:O	2:J:618:VAL:HG13	2.20	0.41
2:J:914:TRP:CZ3	2:J:1033:ALA:HA	2.55	0.41
2:K:1022:ARG:H	2:K:1022:ARG:HG3	1.65	0.41
2:K:76:VAL:HG21	2:K:113:PHE:CZ	2.55	0.41
2:K:411:PRO:HD2	2:K:414:LEU:HD11	2.01	0.41
2:L:113:PHE:CD1	2:L:113:PHE:N	2.88	0.41
2:L:1346:MET:HG3	2:L:1380:TYR:CD1	2.55	0.41
2:L:1590:ILE:HG22	2:L:1591:HIS:N	2.35	0.41
2:L:1721:ARG:NH2	2:L:1853:ILE:CD1	2.78	0.41
2:L:1723:ASP:O	2:L:1727:ARG:HG3	2.20	0.41
2:L:246:ALA:N	2:L:247:PRO:HD2	2.35	0.41
2:L:279:PHE:HB2	2:L:467:ILE:HD12	2.02	0.41
2:L:720:SER:HB3	2:L:723:ALA:HB2	2.02	0.41
1:A:1296:GLN:HE21	1:E:1296:GLN:HG2	1.85	0.41
1:A:1419:LYS:HA	1:A:1422:ARG:HB2	2.02	0.41
1:A:388:GLU:HA	1:A:389:PRO:HD3	1.95	0.41
1:B:358:PHE:CD2	1:B:359:VAL:N	2.88	0.41
1:C:998:GLY:CA	1:C:1361:VAL:HG13	2.40	0.41
1:D:1157:ASP:O	1:D:1327:ALA:HB3	2.20	0.41
1:D:1369:LEU:HD11	1:D:1642:LEU:HD21	2.02	0.41
1:B:1414:PRO:HG2	1:D:1473:HIS:CD2	2.54	0.41
1:C:358:PHE:HB2	1:D:358:PHE:HB2	2.02	0.41
1:D:749:ILE:HG13	1:D:769:ILE:HD13	2.02	0.41
1:D:88:ILE:HG21	2:J:1821:MET:HE1	2.01	0.41
1:D:905:LEU:C	1:D:907:PHE:H	2.24	0.41
1:E:1652:GLU:O	1:E:1656:VAL:HG23	2.20	0.41
1:E:1713:PHE:HA	1:E:1714:PRO:HD3	1.84	0.41
1:B:575:ARG:HD3	1:E:534:GLN:O	2.20	0.41
1:E:682:VAL:HG11	1:E:695:TYR:CE2	2.54	0.41
1:F:1129:ILE:HG22	1:F:1139:THR:O	2.20	0.41
1:F:1562:THR:HB	1:F:1572:TRP:CZ3	2.55	0.41
1:F:968:PRO:CD	1:F:1374:PRO:HB3	2.50	0.41
2:G:1160:PHE:O	2:G:1164:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:155:ASP:N	2:G:155:ASP:OD1	2.52	0.41
2:G:1755:LYS:H	2:G:1755:LYS:HG2	1.71	0.41
2:G:1919:ASN:HD22	2:G:1919:ASN:HA	1.57	0.41
2:G:1982:ALA:C	2:G:1984:PRO:HD3	2.40	0.41
2:G:605:VAL:O	2:G:628:ILE:HA	2.20	0.41
2:G:655:GLY:HA3	2:G:1272:ALA:HB2	2.01	0.41
2:H:1309:PHE:N	2:H:1309:PHE:CD1	2.87	0.41
2:H:129:ILE:CG2	2:H:132:LYS:HD2	2.50	0.41
2:H:1447:GLN:HB3	2:H:1496:VAL:HG13	2.02	0.41
2:H:1886:VAL:CG1	2:H:1900:LEU:HD11	2.49	0.41
2:H:2017:PHE:CE2	2:H:2021:LEU:HD11	2.55	0.41
2:H:437:ALA:HA	2:H:438:PRO:HD3	1.81	0.41
2:H:512:HIS:HE1	2:H:566:VAL:HG13	1.85	0.41
2:H:52:PHE:O	2:H:55:THR:HB	2.20	0.41
2:H:744:THR:HG22	2:H:745:GLY:H	1.84	0.41
2:H:868:LEU:HD12	2:H:1066:ILE:HD12	2.01	0.41
2:H:95:HIS:CB	2:H:96:PRO:HD3	2.50	0.41
2:I:1301:PHE:HB3	2:I:1364:ARG:HH11	1.83	0.41
2:I:1891:ILE:CD1	2:I:1943:LEU:HB3	2.46	0.41
2:I:670:MET:CE	2:I:674:ILE:HD11	2.49	0.41
2:I:747:ARG:NH2	2:I:757:PHE:CE1	2.88	0.41
2:I:791:TYR:CD2	2:I:796:TRP:CG	3.08	0.41
2:J:1551:ILE:CG2	2:J:1552:GLU:HG3	2.47	0.41
2:J:1807:GLN:HB3	2:J:1860:VAL:CG1	2.49	0.41
2:J:193:TYR:HD1	2:J:263:ILE:HD13	1.82	0.41
2:J:511:THR:CG2	2:J:512:HIS:HD2	2.19	0.41
2:J:704:GLU:OE1	2:J:704:GLU:HA	2.19	0.41
2:J:731:ALA:HB1	2:J:771:CYS:SG	2.61	0.41
2:K:1251:THR:CG2	2:K:1292:VAL:HG13	2.49	0.41
2:K:1496:VAL:HG21	2:K:1504:TYR:CD2	2.55	0.41
2:K:1590:ILE:O	2:K:1597:SER:HB3	2.20	0.41
1:E:17:LEU:HD22	2:K:2041:PRO:HB3	2.01	0.41
2:K:48:LEU:HD13	2:K:83:VAL:HG22	2.02	0.41
2:K:720:SER:HB3	2:K:723:ALA:HB2	2.02	0.41
2:K:785:SER:HB2	2:K:1094:HIS:CD2	2.56	0.41
2:L:1305:LEU:CD1	2:L:1305:LEU:H	2.25	0.41
2:L:197:VAL:HG13	2:L:200:LEU:HD21	2.01	0.41
2:L:219:LYS:HB2	2:L:220:GLN:HE21	1.84	0.41
2:L:635:TYR:CD2	2:L:641:MET:HG3	2.53	0.41
2:L:615:TRP:HB2	2:L:648:ILE:HG13	2.03	0.41
2:L:713:HIS:HD2	2:L:740:ILE:HD13	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:914:TRP:CZ3	2:L:1033:ALA:HA	2.55	0.41
1:A:1038:HIS:CE1	1:A:1042:LEU:HD23	2.54	0.41
1:A:1640:LYS:HD2	1:A:1641:TYR:CE1	2.55	0.41
1:A:440:SER:HB3	1:A:481:LEU:CD2	2.45	0.41
1:B:1522:PHE:HB2	1:B:1557:PHE:CD1	2.55	0.41
1:B:1696:PHE:HB3	1:D:1402:THR:HG22	2.03	0.41
1:B:34:VAL:O	1:B:38:GLU:HB2	2.20	0.41
1:B:801:LEU:HD13	1:B:822:GLU:HG2	2.02	0.41
1:B:902:ASN:O	1:B:904:GLY:N	2.51	0.41
1:C:1057:GLU:HA	1:C:1058:PRO:HD3	1.91	0.41
1:C:1060:ASP:HB2	1:C:1063:ASP:OD2	2.20	0.41
1:C:1217:GLU:O	1:C:1299:ALA:HB1	2.20	0.41
1:C:1395:ALA:HA	1:C:1396:PRO:HD3	1.83	0.41
1:C:29:ILE:HG12	2:I:1921:ASN:C	2.40	0.41
1:D:1129:ILE:HG22	1:D:1139:THR:O	2.20	0.41
1:D:1142:LEU:HD12	1:D:1142:LEU:N	2.35	0.41
1:D:526:MET:HE3	1:D:614:PHE:HB2	2.01	0.41
1:D:681:ILE:HG21	1:D:729:ILE:CD1	2.51	0.41
1:D:914:LEU:HD12	1:D:914:LEU:O	2.21	0.41
1:E:1420:TYR:O	1:E:1424:GLN:HG2	2.21	0.41
1:E:681:ILE:HG23	1:E:681:ILE:O	2.20	0.41
1:E:532:ILE:HD11	1:E:866:LEU:O	2.21	0.41
1:F:11:TYR:HD1	2:L:2030:ILE:CD1	2.34	0.41
1:F:1565:PRO:HG3	1:F:1572:TRP:CH2	2.55	0.41
1:F:407:ARG:HG3	1:F:407:ARG:H	1.59	0.41
1:F:448:MET:HA	1:F:448:MET:HE3	2.03	0.41
2:G:1241:GLU:HA	2:G:1263:PHE:O	2.20	0.41
2:G:2009:PHE:O	2:G:2009:PHE:HD2	2.03	0.41
2:G:223:LYS:HB3	2:G:242:TYR:CZ	2.55	0.41
2:G:720:SER:H	2:G:723:ALA:HB3	1.85	0.41
2:H:1181:PHE:HE1	2:H:1191:PRO:HD2	1.84	0.41
2:H:1378:ASN:HB3	2:H:1610:MET:HE3	2.02	0.41
2:H:1751:GLY:O	2:H:1755:LYS:HG2	2.20	0.41
2:H:1851:MET:CE	2:H:2025:ILE:HG12	2.50	0.41
2:H:388:ASN:ND2	2:H:388:ASN:C	2.71	0.41
2:H:724:ILE:O	2:H:727:VAL:HG23	2.20	0.41
2:H:858:LEU:CD2	2:H:864:PRO:HA	2.50	0.41
2:I:1031:VAL:HA	2:I:1032:PRO:HD3	1.70	0.41
2:I:1096:LYS:HD2	2:I:1100:ARG:NH2	2.35	0.41
2:I:1325:VAL:HG13	2:I:1330:ASN:O	2.20	0.41
2:I:1918:VAL:CG1	2:I:2006:HIS:HB2	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:381:SER:OG	2:I:392:THR:HG23	2.20	0.41
2:I:626:TYR:OH	2:I:1088:ASP:HA	2.20	0.41
2:I:673:GLN:O	2:I:676:LEU:HB3	2.21	0.41
2:J:1061:VAL:HG11	2:J:1066:ILE:HD11	1.99	0.41
2:J:1338:ARG:NH2	2:L:327:PRO:N	2.67	0.41
2:J:155:ASP:N	2:J:155:ASP:OD1	2.54	0.41
2:J:1939:LEU:O	2:J:1943:LEU:HG	2.20	0.41
2:J:351:LEU:HD22	2:J:352:SER:H	1.85	0.41
2:J:349:PRO:O	2:J:392:THR:HA	2.20	0.41
2:J:720:SER:H	2:J:723:ALA:HB3	1.85	0.41
2:J:821:GLU:HB2	2:J:1083:ILE:HD11	2.02	0.41
2:J:746:GLY:O	2:J:843:TRP:NE1	2.53	0.41
2:K:1753:ARG:O	2:K:1757:ILE:HG12	2.20	0.41
2:K:189:ILE:HD12	2:K:256:VAL:HG13	2.02	0.41
2:K:297:THR:HG22	2:K:298:ALA:N	2.34	0.41
2:K:441:SER:C	2:K:443:TYR:H	2.24	0.41
2:K:545:ILE:HG22	2:K:555:LYS:HD3	2.02	0.41
2:K:609:THR:HG22	2:K:633:GLY:CA	2.49	0.41
2:K:641:MET:CE	2:K:676:LEU:HD12	2.50	0.41
2:K:747:ARG:HH11	2:K:780:SER:CB	2.26	0.41
2:K:916:GLY:O	2:K:924:VAL:N	2.46	0.41
2:L:1588:ASN:HA	2:L:1589:PRO:HD3	1.90	0.41
2:L:189:ILE:HD12	2:L:256:VAL:HG13	2.02	0.41
1:F:13:LEU:CD1	2:L:2058:VAL:HG21	2.50	0.41
2:L:2063:GLY:O	2:L:2065:PRO:HD3	2.21	0.41
2:L:271:GLU:H	2:L:274:GLU:CG	2.33	0.41
2:L:646:SER:O	2:L:649:GLU:HG2	2.20	0.41
2:L:938:MET:CE	2:L:959:THR:HA	2.50	0.41
1:A:1168:TRP:CE2	1:A:1173:TYR:HE1	2.39	0.41
1:A:565:GLN:O	1:A:568:ALA:HB3	2.20	0.41
1:A:673:LEU:HD21	1:A:884:MET:CE	2.50	0.41
1:B:963:LEU:CD2	1:B:1023:GLU:HB3	2.50	0.41
1:B:1395:ALA:HA	1:B:1396:PRO:HD3	1.82	0.41
1:B:21:GLN:HE21	1:B:21:GLN:HB3	1.60	0.41
1:B:802:SER:HA	1:B:803:PRO:HD3	1.83	0.41
1:C:1097:LEU:HD12	1:F:1241:LEU:CD2	2.51	0.41
1:C:1278:GLY:CA	1:C:1282:THR:HG22	2.49	0.41
1:C:968:PRO:HD2	1:C:1374:PRO:HB3	2.02	0.41
1:C:1577:CYS:HB3	1:C:1620:PHE:CD2	2.55	0.41
1:C:570:TYR:O	1:C:574:ILE:HG12	2.20	0.41
1:C:612:ILE:CG2	1:C:628:TYR:CD2	2.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:474:ILE:O	1:D:478:LYS:HG3	2.20	0.41
1:D:612:ILE:HG23	1:D:613:PRO:HD2	2.02	0.41
1:D:881:LEU:HA	1:D:884:MET:CG	2.39	0.41
1:D:968:PRO:CD	1:D:1374:PRO:HB3	2.50	0.41
1:E:1574:LEU:HA	1:E:1574:LEU:HD12	1.80	0.41
1:E:1710:GLU:OE1	1:E:1712:LYS:HE3	2.20	0.41
1:C:1104:GLN:NE2	1:F:1106:LEU:HD12	2.34	0.41
1:F:1280:CYS:HB2	1:F:1626:GLY:HA2	2.02	0.41
1:F:1579:GLN:O	1:F:1583:THR:HG23	2.20	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:CD	2.50	0.41
1:F:1698:ASN:C	1:F:1698:ASN:OD1	2.58	0.41
1:F:27:ARG:HG2	1:F:27:ARG:H	1.36	0.41
1:F:636:TYR:CE1	1:F:883:LEU:HD23	2.55	0.41
2:G:1624:ALA:HB1	2:G:1665:ILE:CD1	2.50	0.41
2:G:636:TYR:CE2	3:G:2102:NAP:H3B	2.55	0.41
2:G:353:ILE:O	2:G:353:ILE:HG22	2.19	0.41
2:G:887:ASP:O	2:G:888:ARG:C	2.58	0.41
2:H:1289:TYR:CD2	2:H:1370:LEU:HD23	2.56	0.41
2:H:1721:ARG:NH1	2:H:1854:GLU:OE2	2.53	0.41
2:H:1910:VAL:HG11	2:H:1973:ILE:CG2	2.51	0.41
2:H:2015:LYS:HB2	2:H:2016:PRO:CD	2.43	0.41
2:H:606:ALA:HB2	2:H:811:MET:CG	2.49	0.41
2:H:740:ILE:HA	2:H:775:VAL:HB	2.01	0.41
2:H:988:GLU:HA	2:H:989:PRO:HD3	1.75	0.41
2:I:1346:MET:HE2	2:I:1346:MET:HB3	1.87	0.41
2:I:1424:LYS:HB2	2:I:1424:LYS:HE3	1.96	0.41
2:I:1456:LEU:CD1	2:I:1543:TYR:HE2	2.28	0.41
2:I:1884:CYS:HB3	2:I:1936:LEU:CD1	2.46	0.41
2:I:220:GLN:O	2:I:222:PRO:HD3	2.20	0.41
2:H:47:GLN:CG	2:I:23:PRO:HD2	2.49	0.41
2:I:352:SER:HB2	2:I:433:LEU:HD11	2.03	0.41
2:I:479:ARG:C	2:I:481:LEU:H	2.24	0.41
2:I:915:PHE:O	2:I:915:PHE:CG	2.73	0.41
2:J:1113:ILE:HG22	2:J:1114:GLU:N	2.35	0.41
2:J:1313:ARG:HG3	2:J:1394:VAL:CG1	2.51	0.41
2:J:396:ILE:CD1	2:J:396:ILE:H	2.29	0.41
2:J:545:ILE:HG22	2:J:555:LYS:HD3	2.02	0.41
2:J:601:PRO:HA	2:J:602:PRO:HD3	1.83	0.41
2:K:1914:LEU:O	2:K:1931:GLY:HA3	2.19	0.41
2:K:1945:ILE:HG22	2:K:1946:LEU:N	2.34	0.41
2:K:223:LYS:HB3	2:K:242:TYR:CZ	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:357:THR:O	2:K:361:VAL:HG23	2.20	0.41
2:K:521:VAL:HG12	2:K:521:VAL:O	2.20	0.41
2:K:117:ASN:CA	2:K:561:ARG:HG3	2.38	0.41
2:K:616:ASP:OD2	2:K:823:HIS:NE2	2.53	0.41
2:K:670:MET:CE	2:K:674:ILE:HD11	2.51	0.41
2:K:642:SER:HB3	2:K:676:LEU:HD21	2.02	0.41
2:L:819:ALA:HA	2:L:1081:GLU:O	2.21	0.41
2:L:1096:LYS:HD2	2:L:1100:ARG:NH2	2.35	0.41
2:L:76:VAL:HG21	2:L:113:PHE:CZ	2.55	0.41
2:L:1120:ILE:HG13	2:L:1169:TYR:CZ	2.56	0.41
2:L:152:LYS:HA	2:L:153:PRO:HD3	1.82	0.41
2:L:154:TYR:CD1	2:L:561:ARG:CZ	3.03	0.41
2:L:1810:LEU:HA	2:L:1810:LEU:HD23	1.84	0.41
2:L:1886:VAL:CG1	2:L:1900:LEU:HD11	2.50	0.41
2:L:1920:TYR:HD2	2:L:1927:TYR:HE2	1.68	0.41
2:L:418:ARG:HE	2:L:418:ARG:HB3	1.67	0.41
2:L:507:PHE:HA	2:L:508:PRO:HD3	1.90	0.41
2:L:535:THR:OG1	2:L:537:VAL:HG23	2.21	0.41
1:A:4:GLU:HG3	1:A:4:GLU:H	1.50	0.41
1:A:632:LEU:O	1:A:633:THR:C	2.59	0.41
1:B:1363:MET:HB2	1:B:1363:MET:HE2	1.77	0.41
1:B:1527:THR:OG1	1:B:1530:ASN:HB3	2.20	0.41
1:B:1546:GLY:O	1:B:1547:ARG:C	2.57	0.41
1:C:1168:TRP:CE2	1:C:1173:TYR:HE1	2.39	0.41
1:C:1363:MET:SD	1:C:1367:LEU:HD13	2.61	0.41
1:C:1704:THR:HG23	1:C:1714:PRO:HG3	2.01	0.41
1:C:679:LYS:HG2	1:C:708:GLN:CB	2.49	0.41
1:C:741:ASP:CG	1:C:793:ARG:HH11	2.24	0.41
1:D:1011:ARG:HH11	1:D:1012:TRP:HA	1.86	0.41
1:D:1099:GLU:HA	1:D:1149:LEU:HD23	2.02	0.41
1:D:12:THR:CG2	2:J:2066:LYS:HD3	2.50	0.41
1:E:1167:GLY:O	1:E:1172:ARG:NH1	2.54	0.41
1:E:1343:PRO:O	1:E:1531:ASP:OD2	2.38	0.41
1:E:1654:TYR:CZ	1:E:1658:VAL:HG21	2.55	0.41
1:E:21:GLN:HE21	1:E:21:GLN:HB3	1.58	0.41
1:E:448:MET:HE3	1:E:448:MET:HA	2.02	0.41
1:E:674:LEU:HA	1:E:674:LEU:HD23	1.92	0.41
1:F:1127:VAL:HG22	1:F:1142:LEU:HA	2.03	0.41
1:F:1191:LEU:HD23	1:F:1191:LEU:HA	1.80	0.41
1:F:2:ARG:CZ	2:L:2078:GLU:OE1	2.68	0.41
1:F:493:PRO:HD2	1:F:517:ARG:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:68:TYR:CD2	1:F:68:TYR:C	2.94	0.41
1:F:848:ARG:HG2	1:F:871:PHE:O	2.21	0.41
1:F:881:LEU:O	1:F:884:MET:HB2	2.21	0.41
2:G:1120:ILE:HD13	2:G:1173:HIS:CE1	2.56	0.41
2:G:1175:MET:HE3	2:G:1192:LEU:HD11	2.02	0.41
2:G:1342:PHE:CE2	2:G:1391:VAL:HB	2.55	0.41
2:G:1384:PRO:HB3	2:G:1829:ARG:NH1	2.35	0.41
2:G:2050:ILE:HG12	2:G:2050:ILE:O	2.20	0.41
2:G:349:PRO:O	2:G:392:THR:HA	2.20	0.41
2:G:476:GLN:HG2	2:G:476:GLN:H	1.66	0.41
2:H:1473:PHE:HE1	2:H:1513:VAL:HG21	1.85	0.41
2:H:1577:ASN:OD1	2:H:1607:THR:HA	2.20	0.41
2:H:174:GLY:H	2:H:517:GLY:CA	2.32	0.41
2:H:1749:PHE:CD2	2:H:1758:ARG:HB3	2.55	0.41
2:H:1881:TYR:CZ	2:H:2009:PHE:HE1	2.38	0.41
2:H:1940:ALA:HA	2:H:1995:THR:HG21	2.03	0.41
2:H:265:CYS:SG	2:H:275:LEU:HB2	2.60	0.41
2:H:472:THR:CG2	2:H:499:VAL:HG22	2.50	0.41
2:H:528:THR:HA	2:H:531:ASN:ND2	2.36	0.41
2:H:605:VAL:O	2:H:628:ILE:HA	2.21	0.41
2:H:618:VAL:CG1	2:H:648:ILE:HD11	2.50	0.41
2:H:788:THR:HG21	2:H:810:CYS:SG	2.60	0.41
2:I:1769:VAL:HG22	2:I:1775:ILE:CA	2.39	0.41
2:I:1880:ASN:HB3	2:I:1881:TYR:CE1	2.55	0.41
2:I:1910:VAL:HG11	2:I:1973:ILE:CG2	2.50	0.41
2:I:163:ALA:HB2	2:I:278:ARG:HE	1.85	0.41
2:I:463:SER:C	2:I:465:LEU:H	2.24	0.41
2:I:664:TYR:OH	2:I:701:VAL:HG11	2.20	0.41
2:I:740:ILE:HA	2:I:775:VAL:HB	2.02	0.41
2:I:821:GLU:OE2	2:I:1083:ILE:HG13	2.21	0.41
2:J:1362:PHE:N	2:J:1363:PRO:CD	2.84	0.41
2:J:60:THR:HG22	2:J:62:GLU:HG3	2.01	0.41
2:J:676:LEU:HA	2:J:679:ARG:NH2	2.35	0.41
2:J:858:LEU:CD2	2:J:864:PRO:HA	2.51	0.41
2:K:1000:TYR:HA	2:K:1001:PRO:HD2	1.72	0.41
2:K:1149:ALA:HA	2:K:1150:PRO:HD3	1.90	0.41
2:K:1678:VAL:O	2:K:1679:LEU:HD23	2.21	0.41
2:K:1725:HIS:CD2	2:K:1854:GLU:HB2	2.55	0.41
1:E:18:LEU:HD21	2:K:1844:LEU:HD11	2.03	0.41
2:K:2020:PHE:O	2:K:2024:LYS:HG2	2.21	0.41
2:K:857:VAL:HG11	2:K:876:TRP:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:931:TYR:CD2	2:K:966:VAL:HG13	2.56	0.41
2:L:1064:THR:CG2	2:L:1065:CYS:N	2.83	0.41
2:L:1241:GLU:HA	2:L:1263:PHE:O	2.20	0.41
2:L:1517:LEU:CG	2:L:1523:ILE:HD11	2.49	0.41
2:L:1706:MET:HE1	2:L:1735:ILE:HG23	2.02	0.41
2:L:1848:ALA:HA	2:L:2034:LYS:HD3	2.02	0.41
2:L:716:PHE:CD1	2:L:727:VAL:HG13	2.56	0.41
2:L:932:ALA:O	2:L:935:VAL:HG13	2.20	0.41
1:A:422:LEU:HD13	1:A:429:ILE:HG12	2.02	0.41
1:A:434:ILE:HD11	1:A:490:VAL:HG21	2.01	0.41
1:A:523:VAL:HG11	1:A:641:GLU:CA	2.50	0.41
1:B:1232:LEU:HD23	1:B:1253:SER:HB2	2.03	0.41
1:B:1277:VAL:HG23	1:D:1277:VAL:HG23	2.03	0.41
1:B:968:PRO:HD2	1:B:1374:PRO:HB3	2.03	0.41
1:B:576:ALA:HB1	1:B:584:ILE:HD11	2.03	0.41
1:B:740:LEU:HD12	1:B:781:ILE:HD13	2.03	0.41
1:C:1170:ALA:HB3	1:C:1188:LEU:HD13	2.03	0.41
1:C:1404:ALA:HA	1:C:1501:ALA:HB1	2.02	0.41
1:C:1507:LEU:HA	1:C:1507:LEU:HD23	1.80	0.41
1:C:382:ILE:HG13	1:C:382:ILE:H	1.65	0.41
1:C:506:ILE:HD13	1:C:922:ILE:CG2	2.44	0.41
1:C:580:ASN:OD1	1:C:583:GLN:HG3	2.20	0.41
1:D:1157:ASP:O	1:D:1159:LEU:HD12	2.21	0.41
1:D:450:TYR:CD2	1:D:450:TYR:C	2.93	0.41
1:D:544:ASP:O	1:D:548:VAL:HG23	2.21	0.41
1:E:1041:PRO:HA	1:E:1046:PRO:HA	2.03	0.41
1:E:1170:ALA:HB3	1:E:1188:LEU:HD13	2.03	0.41
1:E:1487:THR:HA	1:E:1491:ASN:ND2	2.35	0.41
1:E:1599:MET:HA	1:E:1602:PHE:HD2	1.86	0.41
1:F:1107:GLU:HA	1:F:1108:PRO:HD3	1.73	0.41
1:F:42:GLU:OE1	2:L:1688:PRO:HB3	2.20	0.41
1:F:876:MET:O	1:F:876:MET:HE3	2.21	0.41
1:F:855:ALA:HB1	1:F:919:ARG:HH21	1.84	0.41
2:G:1096:LYS:HD2	2:G:1100:ARG:NH2	2.35	0.41
2:G:1351:VAL:CG2	2:G:1584:SER:HA	2.47	0.41
2:G:246:ALA:N	2:G:247:PRO:HD2	2.36	0.41
2:G:521:VAL:HG12	2:G:521:VAL:O	2.20	0.41
2:G:618:VAL:CG1	2:G:648:ILE:HD11	2.51	0.41
2:G:744:THR:HG22	2:G:745:GLY:N	2.35	0.41
2:G:743:TRP:CZ2	2:G:757:PHE:HA	2.50	0.41
2:G:80:ILE:HG12	2:G:105:ILE:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1171:TRP:CG	2:H:1172:ARG:N	2.89	0.41
2:H:1410:GLY:HA2	2:H:1437:GLY:O	2.21	0.41
2:H:1753:ARG:O	2:H:1757:ILE:HG12	2.21	0.41
2:H:2052:LYS:CD	2:H:2074:TRP:HE1	2.24	0.41
2:H:399:TYR:CE2	2:H:403:LEU:HD11	2.56	0.41
2:H:534:GLY:O	2:H:571:ASP:HA	2.20	0.41
2:H:723:ALA:O	2:H:726:GLN:HB2	2.20	0.41
2:H:882:LYS:HD3	2:H:898:ARG:NH1	2.35	0.41
2:I:521:VAL:O	2:I:521:VAL:HG12	2.20	0.41
2:J:819:ALA:HA	2:J:1081:GLU:O	2.19	0.41
2:J:1236:LEU:HD12	2:J:1241:GLU:O	2.20	0.41
2:J:1381:ARG:NH1	2:J:1634:SER:HB2	2.36	0.41
2:J:1802:ALA:CB	2:J:1804:GLN:HE22	2.31	0.41
2:J:1933:LEU:HB3	2:J:1987:VAL:CG1	2.51	0.41
2:J:197:VAL:HG13	2:J:200:LEU:HD21	2.02	0.41
2:J:578:PRO:HG3	2:J:792:LEU:O	2.19	0.41
2:J:723:ALA:O	2:J:726:GLN:HB2	2.20	0.41
2:J:747:ARG:HH11	2:J:780:SER:CB	2.26	0.41
2:K:1067:LEU:HB3	4:K:2101:FMN:HM82	2.02	0.41
2:K:820:LYS:HB3	2:K:1080:ASP:O	2.21	0.41
2:K:1207:THR:HB	2:K:1216:VAL:HB	2.03	0.41
2:K:1616:VAL:HG13	2:K:1635:TYR:OH	2.20	0.41
2:K:1871:VAL:HG21	2:K:2004:PRO:HD3	2.02	0.41
2:K:2044:THR:C	2:K:2046:LYS:H	2.24	0.41
2:K:511:THR:C	2:K:512:HIS:CD2	2.93	0.41
2:K:130:THR:HG23	2:K:546:ASP:HB3	2.02	0.41
2:K:699:ILE:CD1	2:K:699:ILE:H	2.34	0.41
2:K:815:ARG:NH2	2:K:1086:ILE:CG2	2.83	0.41
2:L:129:ILE:CG2	2:L:132:LYS:HD2	2.51	0.41
2:L:1465:ALA:O	2:L:1469:SER:HB3	2.20	0.41
2:L:1721:ARG:HH21	2:L:1853:ILE:CD1	2.31	0.41
1:F:13:LEU:HD21	2:L:2054:TYR:CD2	2.55	0.41
2:L:60:THR:HG22	2:L:62:GLU:HG3	2.01	0.41
2:L:744:THR:HG22	2:L:745:GLY:N	2.36	0.41
2:L:743:TRP:CZ2	2:L:757:PHE:HA	2.51	0.41
2:L:929:MET:CE	2:L:934:VAL:HG22	2.51	0.41
1:A:1459:GLY:HA2	1:A:1460:PRO:HD3	1.92	0.41
1:A:452:ILE:HG22	1:A:453:ASP:N	2.35	0.41
1:B:1162:GLY:O	1:B:1354:SER:HA	2.21	0.41
1:B:448:MET:HA	1:B:448:MET:CE	2.51	0.41
1:B:452:ILE:CD1	1:B:470:GLY:HA3	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:522:TYR:O	1:B:526:MET:HG2	2.21	0.41
1:B:682:VAL:HG11	1:B:695:TYR:CE2	2.56	0.41
1:C:1065:LYS:O	1:C:1069:GLU:HB2	2.20	0.41
1:C:1191:LEU:HA	1:C:1191:LEU:HD23	1.89	0.41
1:C:1652:GLU:O	1:C:1656:VAL:HG23	2.21	0.41
1:C:39:LYS:HD3	2:I:1832:THR:HG21	2.03	0.41
1:C:427:ARG:O	1:C:430:VAL:HB	2.21	0.41
1:C:681:ILE:HG21	1:C:729:ILE:CD1	2.51	0.41
1:D:1542:LEU:HD22	1:D:1547:ARG:HD3	2.03	0.41
1:D:363:GLU:O	1:D:366:LYS:HB2	2.20	0.41
1:E:1051:VAL:HG13	1:E:1057:GLU:O	2.21	0.41
1:E:1127:VAL:HG22	1:E:1142:LEU:HA	2.03	0.41
1:E:1457:GLU:HG3	1:E:1457:GLU:H	1.48	0.41
1:E:21:GLN:O	2:K:2006:HIS:CD2	2.71	0.41
1:E:619:LYS:HE3	1:E:619:LYS:HB2	1.84	0.41
1:E:679:LYS:HG2	1:E:708:GLN:CB	2.50	0.41
1:F:1217:GLU:O	1:F:1299:ALA:HB1	2.21	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:CE	2.50	0.41
1:F:1522:PHE:CD2	1:F:1534:GLU:HB3	2.55	0.41
1:F:833:TRP:HH2	1:F:839:ILE:HD11	1.86	0.41
1:F:859:VAL:HG13	1:F:918:LEU:CB	2.51	0.41
2:G:1017:LEU:HD21	2:G:1032:PRO:HB2	2.01	0.41
2:G:1181:PHE:HE1	2:G:1191:PRO:HD2	1.84	0.41
2:G:1207:THR:HB	2:G:1216:VAL:HB	2.03	0.41
2:G:1231:THR:HG22	2:G:1232:VAL:N	2.35	0.41
2:G:1454:MET:HA	2:G:1454:MET:HE2	2.02	0.41
2:G:1656:VAL:O	2:G:1656:VAL:HG22	2.21	0.41
2:G:1709:TYR:HE2	2:G:1716:LYS:HE2	1.85	0.41
1:A:34:VAL:HG21	2:G:2045:ALA:O	2.19	0.41
4:G:2101:FMN:H9	4:G:2101:FMN:H1'2	1.88	0.41
2:G:433:LEU:HA	2:G:434:PRO:HD3	1.86	0.41
2:G:938:MET:CE	2:G:959:THR:HA	2.50	0.41
2:G:938:MET:HE2	2:G:959:THR:HG22	2.01	0.41
2:H:1102:LEU:HD23	2:H:1102:LEU:HA	1.83	0.41
2:H:1241:GLU:HA	2:H:1263:PHE:O	2.21	0.41
2:H:186:LEU:HA	2:H:186:LEU:HD23	1.78	0.41
2:H:636:TYR:CE2	3:H:2102:NAP:H3B	2.56	0.41
2:H:317:TRP:CD1	2:H:454:ASP:CG	2.94	0.41
2:H:329:THR:HG22	2:I:1331:THR:O	2.20	0.41
2:H:716:PHE:CD1	2:H:727:VAL:HG13	2.55	0.41
2:I:1053:ILE:CD1	2:I:1061:VAL:HG13	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1203:TYR:CE2	2:I:1205:GLU:HG3	2.55	0.41
2:I:152:LYS:HA	2:I:153:PRO:HD3	1.84	0.41
2:I:460:ILE:O	2:I:486:ILE:N	2.53	0.41
2:I:720:SER:HB3	2:I:723:ALA:HB2	2.03	0.41
2:I:764:MET:O	2:I:765:TYR:C	2.59	0.41
2:I:932:ALA:O	2:I:935:VAL:HG13	2.21	0.41
2:J:1261:PHE:HE2	2:J:1285:ILE:HD11	1.85	0.41
2:J:1621:GLU:OE2	2:J:1629:ILE:HG23	2.21	0.41
2:J:1700:GLN:HG2	2:J:1700:GLN:O	2.20	0.41
2:J:1847:LEU:HD12	2:J:1847:LEU:N	2.35	0.41
2:J:48:LEU:HG	2:J:48:LEU:H	1.56	0.41
2:J:608:MET:HE2	2:J:608:MET:HB3	1.54	0.41
2:J:615:TRP:HA	2:J:618:VAL:CG1	2.51	0.41
2:J:726:GLN:O	2:J:730:ILE:HG12	2.20	0.41
2:J:912:LYS:NZ	2:J:1044:LYS:O	2.53	0.41
2:K:626:TYR:CE1	2:K:1087:LEU:HB3	2.55	0.41
2:K:1847:LEU:HD12	2:K:1847:LEU:N	2.35	0.41
2:K:416:GLN:HA	2:K:419:ILE:HG13	2.03	0.41
2:K:440:HIS:CD2	2:K:497:ASP:O	2.61	0.41
2:K:765:TYR:HB2	2:K:805:MET:HE3	2.01	0.41
2:K:818:THR:HA	2:K:829:LYS:HE2	2.01	0.41
2:L:1007:LEU:N	2:L:1007:LEU:CD1	2.76	0.41
2:L:912:LYS:HB3	2:L:1030:PHE:HA	2.03	0.41
2:L:1057:TYR:C	2:L:1059:GLN:H	2.23	0.41
2:L:1481:ILE:HG13	2:L:1481:ILE:O	2.20	0.41
2:L:1847:LEU:N	2:L:1847:LEU:HD12	2.35	0.41
2:L:2058:VAL:O	2:L:2062:THR:HB	2.21	0.41
2:L:265:CYS:HA	2:L:275:LEU:HD12	2.03	0.41
2:L:310:ARG:HH12	2:L:459:LYS:H	1.69	0.41
2:L:857:VAL:HG11	2:L:876:TRP:CD1	2.56	0.41
1:A:1293:THR:HG23	1:A:1298:LYS:HB2	2.02	0.41
1:A:1371:MET:O	1:A:1661:ARG:NH1	2.54	0.41
1:A:1393:VAL:N	1:A:1394:PRO:HD3	2.35	0.41
1:A:619:LYS:HB2	1:A:619:LYS:HE3	1.85	0.41
1:B:1700:GLN:O	1:B:1701:SER:C	2.59	0.41
1:B:352:ARG:O	1:B:356:LYS:HG3	2.20	0.41
1:B:579:MET:CE	1:E:907:PHE:CZ	3.04	0.41
1:C:1514:ILE:H	1:C:1514:ILE:HG13	1.31	0.41
1:C:1343:PRO:O	1:C:1531:ASP:OD2	2.39	0.41
1:C:36:LEU:O	1:C:76:ARG:NH2	2.52	0.41
1:C:4:GLU:HG3	1:C:4:GLU:H	1.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:632:LEU:O	1:C:633:THR:C	2.59	0.41
1:C:662:ALA:HA	1:C:694:TYR:CZ	2.55	0.41
1:D:1063:ASP:O	1:D:1064:VAL:C	2.57	0.41
1:D:1310:PHE:CE1	1:D:1315:SER:HB2	2.56	0.41
1:D:1321:MET:HB3	1:D:1321:MET:HE2	1.76	0.41
1:E:388:GLU:HA	1:E:389:PRO:HD3	1.95	0.41
1:E:879:ASN:HB3	1:E:901:LEU:HD13	2.03	0.41
1:F:963:LEU:CD2	1:F:1023:GLU:HB3	2.51	0.41
1:F:343:ILE:O	1:F:347:LEU:HG	2.21	0.41
1:F:498:THR:HG22	1:F:508:TYR:HD1	1.86	0.41
1:F:637:LEU:HD23	1:F:640:LEU:HD23	2.02	0.41
1:F:674:LEU:HA	1:F:674:LEU:HD23	1.88	0.41
1:F:959:PRO:HG2	2:L:974:GLU:HG3	2.02	0.41
2:G:1301:PHE:HB3	2:G:1364:ARG:NH1	2.36	0.41
2:G:1353:GLY:HA2	2:G:1397:THR:HG21	2.03	0.41
2:G:1378:ASN:HD22	2:G:1431:SER:CB	2.33	0.41
2:G:174:GLY:H	2:G:517:GLY:CA	2.32	0.41
2:G:749:GLY:HA3	4:G:2101:FMN:HM81	2.02	0.41
2:G:22:ARG:HD2	2:G:42:HIS:CB	2.50	0.41
2:G:765:TYR:HB2	2:G:805:MET:HE3	2.03	0.41
2:G:762:LEU:HD23	2:G:805:MET:HE1	2.03	0.41
2:G:912:LYS:NZ	2:G:1044:LYS:O	2.53	0.41
1:A:955:VAL:HG21	2:G:964:ARG:HH21	1.85	0.41
2:H:1353:GLY:HA2	2:H:1397:THR:HG21	2.03	0.41
2:H:1594:ARG:NH1	2:H:1595:VAL:HG13	2.36	0.41
2:H:1723:ASP:O	2:H:1727:ARG:HG3	2.21	0.41
2:H:1884:CYS:HB3	2:H:1936:LEU:CD1	2.46	0.41
2:H:1968:HIS:O	2:H:1971:GLU:HB2	2.20	0.41
2:H:398:LEU:HA	2:H:398:LEU:HD23	1.91	0.41
2:H:536:GLY:HA2	2:H:569:ALA:O	2.21	0.41
2:H:31:LEU:HD13	2:H:75:LEU:HG	2.02	0.41
2:H:791:TYR:HD2	2:H:796:TRP:CG	2.39	0.41
2:I:1483:LEU:HG	2:I:1483:LEU:H	1.09	0.41
2:I:253:ILE:O	2:I:257:GLN:HG3	2.21	0.41
2:I:775:VAL:HG12	2:I:777:VAL:HG23	2.01	0.41
2:I:796:TRP:HH2	2:I:805:MET:HE1	1.81	0.41
2:I:858:LEU:CD2	2:I:864:PRO:HA	2.50	0.41
2:I:929:MET:HE1	2:I:934:VAL:HA	2.02	0.41
2:J:1091:HIS:O	2:J:1094:HIS:HB2	2.20	0.41
2:J:1163:LEU:HA	2:J:1163:LEU:HD12	1.79	0.41
1:D:49:PRO:HB2	2:J:1699:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1871:VAL:CG2	2:J:2004:PRO:HD3	2.51	0.41
2:J:2008:THR:O	2:J:2011:ARG:HG3	2.21	0.41
2:J:246:ALA:N	2:J:247:PRO:HD2	2.35	0.41
2:J:186:LEU:HD11	2:J:255:LEU:HD23	2.02	0.41
2:J:346:THR:HA	2:J:347:PRO:HD3	1.88	0.41
2:J:418:ARG:HB3	2:J:418:ARG:HE	1.70	0.41
2:J:174:GLY:HA2	2:J:524:ILE:HG12	2.02	0.41
2:J:740:ILE:HA	2:J:775:VAL:HB	2.02	0.41
2:K:1106:LYS:HA	2:K:1106:LYS:HD3	1.76	0.41
2:K:1515:LEU:CB	2:K:1525:VAL:HG21	2.51	0.41
2:K:1645:PRO:O	2:K:1646:ASN:HB2	2.20	0.41
2:K:1692:TYR:O	2:K:1833:PHE:HA	2.21	0.41
2:K:1871:VAL:CG1	2:K:1872:GLU:N	2.84	0.41
2:K:1960:MET:HB3	2:K:1964:ASP:CB	2.51	0.41
2:K:2003:VAL:HA	2:K:2004:PRO:HD3	1.92	0.41
2:K:2039:TYR:C	2:K:2039:TYR:CD2	2.94	0.41
2:K:976:GLN:HA	2:K:977:PRO:HD3	1.90	0.41
2:L:1755:LYS:H	2:L:1755:LYS:HG2	1.69	0.41
2:L:1762:MET:HA	2:L:1779:LYS:HE2	2.01	0.41
2:L:1960:MET:HB3	2:L:1964:ASP:HB2	2.03	0.41
2:L:204:ILE:CG2	2:L:312:VAL:HG21	2.51	0.41
2:L:358:ARG:HB2	2:L:389:PHE:CE2	2.55	0.41
2:L:737:PHE:HA	2:L:738:PRO:HD3	1.86	0.41
1:A:1071:TYR:C	1:A:1071:TYR:CD2	2.94	0.41
1:A:1463:GLU:O	1:A:1467:LEU:HB2	2.21	0.41
1:A:751:GLU:OE1	1:A:770:MET:HE1	2.20	0.41
1:A:498:THR:CG2	1:A:858:LEU:HA	2.41	0.41
1:B:1065:LYS:O	1:B:1069:GLU:HB2	2.20	0.41
1:B:1175:VAL:HA	1:B:1176:PRO:HD3	1.80	0.41
1:B:498:THR:HG22	1:B:508:TYR:HD1	1.85	0.41
1:B:628:TYR:CD1	1:B:629:SER:N	2.89	0.41
1:B:777:LEU:CD2	1:B:781:ILE:HD11	2.51	0.41
1:B:726:VAL:HG21	1:B:780:ALA:CB	2.50	0.41
1:C:1371:MET:O	1:C:1661:ARG:NH1	2.54	0.41
1:C:1459:GLY:HA2	1:C:1460:PRO:HD3	1.94	0.41
1:C:1546:GLY:O	1:C:1547:ARG:C	2.59	0.41
1:C:381:ASP:O	1:C:384:ALA:HB3	2.21	0.41
1:C:407:ARG:HB3	1:C:447:PHE:CE2	2.55	0.41
1:C:632:LEU:CA	1:C:635:ILE:HG22	2.46	0.41
1:C:914:LEU:O	1:C:914:LEU:HD12	2.20	0.41
1:D:1584:GLY:HA2	1:D:1617:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1711:LEU:HD23	1:D:1711:LEU:HA	1.88	0.41
1:D:484:PRO:HG3	1:D:651:GLN:OE1	2.21	0.41
1:D:902:ASN:O	1:D:904:GLY:N	2.52	0.41
1:A:1107:GLU:CB	1:E:1104:GLN:OE1	2.66	0.41
1:E:358:PHE:HD2	1:E:359:VAL:N	2.18	0.41
1:E:397:ARG:N	1:E:397:ARG:HD3	2.36	0.41
1:E:443:LEU:HD12	1:E:443:LEU:H	1.85	0.41
1:E:612:ILE:HG23	1:E:613:PRO:HD2	2.01	0.41
1:F:1183:VAL:HG11	1:F:1187:THR:CG2	2.44	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:HE3	2.03	0.41
1:F:452:ILE:CD1	1:F:467:LYS:HA	2.51	0.41
2:G:1314:GLU:O	2:G:1394:VAL:HA	2.19	0.41
2:G:1455:GLN:HB2	2:G:1551:ILE:HG13	2.03	0.41
2:G:200:LEU:HD23	2:G:200:LEU:H	1.86	0.41
2:G:297:THR:HG22	2:G:298:ALA:N	2.35	0.41
2:G:376:ARG:HH22	2:H:1340:LYS:CE	2.34	0.41
2:G:858:LEU:CD2	2:G:864:PRO:HA	2.51	0.41
2:G:931:TYR:CZ	2:G:1008:ILE:HA	2.56	0.41
2:H:1050:SER:HA	2:H:1064:THR:HG21	2.01	0.41
2:H:1299:VAL:HA	2:H:1300:PRO:HD3	1.81	0.41
2:H:2039:TYR:C	2:H:2039:TYR:CD2	2.94	0.41
2:H:327:PRO:O	2:I:1338:ARG:NH2	2.40	0.41
2:H:339:SER:O	2:H:344:GLU:HB2	2.21	0.41
2:H:462:ALA:HB3	2:H:483:ASP:H	1.85	0.41
2:H:912:LYS:NZ	2:H:1044:LYS:O	2.54	0.41
2:H:916:GLY:O	2:H:924:VAL:HG23	2.20	0.41
2:I:1057:TYR:C	2:I:1059:GLN:H	2.23	0.41
2:I:1229:VAL:CG1	2:I:1230:LYS:N	2.84	0.41
2:I:168:LYS:H	2:I:511:THR:HB	1.85	0.41
2:I:1969:LEU:HA	2:I:1972:ILE:CD1	2.51	0.41
2:I:339:SER:O	2:I:344:GLU:HB2	2.21	0.41
2:I:310:ARG:HH12	2:I:459:LYS:H	1.68	0.41
2:I:641:MET:CE	2:I:676:LEU:HD12	2.51	0.41
2:I:765:TYR:HB2	2:I:805:MET:HE3	2.02	0.41
2:J:1301:PHE:HB3	2:J:1364:ARG:NH1	2.36	0.41
2:J:1594:ARG:NH1	2:J:1595:VAL:HG13	2.36	0.41
2:J:479:ARG:C	2:J:481:LEU:H	2.24	0.41
2:J:875:PHE:C	2:J:878:GLU:HB2	2.41	0.41
2:J:917:ARG:CG	2:J:917:ARG:NH1	2.48	0.41
2:J:931:TYR:CZ	2:J:1008:ILE:HA	2.56	0.41
2:K:1028:VAL:HA	2:K:1029:PRO:HD3	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1378:ASN:HD22	2:K:1431:SER:CB	2.34	0.41
2:K:1455:GLN:HB2	2:K:1551:ILE:HG13	2.03	0.41
2:K:1940:ALA:HA	2:K:1995:THR:HG21	2.02	0.41
2:K:2038:LYS:HD3	2:K:2038:LYS:HA	1.89	0.41
2:K:351:LEU:O	2:K:390:VAL:HA	2.21	0.41
2:K:521:VAL:HG13	2:K:549:ASN:HB2	2.03	0.41
2:K:608:MET:O	2:K:609:THR:C	2.59	0.41
2:K:656:ARG:HA	2:K:656:ARG:HD2	1.91	0.41
2:K:740:ILE:HD12	2:K:740:ILE:H	1.86	0.41
2:K:31:LEU:HD13	2:K:75:LEU:HG	2.02	0.41
2:K:875:PHE:HE2	2:K:906:LEU:HD23	1.85	0.41
2:L:1064:THR:HG22	2:L:1065:CYS:H	1.85	0.41
2:L:1146:LEU:HD11	2:L:1160:PHE:CE2	2.56	0.41
2:L:1238:GLY:O	2:L:1239:ASP:HB2	2.20	0.41
2:L:1447:GLN:HB3	2:L:1496:VAL:HG13	2.03	0.41
2:L:1991:ARG:HE	2:L:1996:ILE:HG12	1.86	0.41
1:A:1127:VAL:HG22	1:A:1142:LEU:HA	2.03	0.41
1:A:1484:GLU:O	1:A:1487:THR:HB	2.21	0.41
1:A:1674:ILE:HG22	1:A:1675:ASN:OD1	2.21	0.41
1:A:392:ASP:HA	1:A:393:PRO:HD2	1.72	0.41
1:A:407:ARG:CZ	1:A:1606:VAL:HG23	2.51	0.41
1:A:526:MET:HE3	1:A:614:PHE:HB2	2.03	0.41
1:B:1288:ASP:C	1:B:1288:ASP:OD2	2.59	0.41
1:B:994:VAL:HG21	1:B:1291:TYR:CD1	2.56	0.41
1:B:1491:ASN:H	1:B:1491:ASN:ND2	2.16	0.41
1:B:491:SER:O	1:B:493:PRO:HD3	2.21	0.41
1:C:1623:THR:HG22	1:C:1633:GLN:HB2	2.03	0.41
1:C:726:VAL:HG21	1:C:780:ALA:HB3	2.02	0.41
1:C:636:TYR:CE1	1:C:883:LEU:HD23	2.56	0.41
1:D:1185:PRO:O	1:D:1188:LEU:HB2	2.21	0.41
1:D:1704:THR:HG23	1:D:1714:PRO:HG3	2.02	0.41
1:D:626:TRP:CE3	1:D:898:PHE:HB2	2.56	0.41
1:E:530:GLY:O	1:E:611:THR:HG21	2.21	0.41
1:E:632:LEU:CA	1:E:635:ILE:HG22	2.47	0.41
1:E:390:ALA:O	1:E:713:PRO:HB2	2.20	0.41
1:F:984:LEU:HD21	1:F:1510:TRP:O	2.21	0.41
1:F:1687:TYR:HD2	1:F:1713:PHE:CD1	2.39	0.41
1:F:24:MET:HB3	2:L:2043:VAL:HG12	2.02	0.41
1:F:613:PRO:HD2	1:F:628:TYR:CE2	2.55	0.41
2:G:1047:LEU:CD1	2:G:1047:LEU:H	2.29	0.41
2:G:38:PRO:CD	2:G:104:LEU:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1346:MET:HE3	2:G:1346:MET:HB3	1.88	0.41
2:G:1616:VAL:HG13	2:G:1635:TYR:OH	2.20	0.41
2:G:202:THR:O	2:G:205:ALA:HB3	2.21	0.41
2:G:251:PRO:CG	2:G:316:PHE:HA	2.48	0.41
2:G:796:TRP:CG	2:G:797:SER:N	2.88	0.41
2:G:821:GLU:HB2	2:G:1083:ILE:HD11	2.02	0.41
2:H:1002:GLU:C	2:H:1004:SER:H	2.24	0.41
2:H:1406:ASN:OD1	2:H:1406:ASN:N	2.52	0.41
2:H:1383:VAL:CG2	2:H:1428:TYR:HE1	2.33	0.41
2:H:1378:ASN:HD22	2:H:1431:SER:CB	2.33	0.41
2:H:1604:GLY:O	2:H:1644:LEU:HD22	2.21	0.41
2:H:1810:LEU:HA	2:H:1810:LEU:HD23	1.88	0.41
2:H:342:ASN:HD22	2:H:342:ASN:N	2.19	0.41
2:H:350:MET:SD	2:H:392:THR:CG2	3.09	0.41
2:H:396:ILE:N	2:H:396:ILE:HD12	2.34	0.41
2:H:481:LEU:C	2:H:483:ASP:H	2.25	0.41
2:H:490:LEU:HD23	2:H:493:MET:SD	2.60	0.41
2:H:501:TRP:CD1	2:H:501:TRP:C	2.94	0.41
2:H:673:GLN:O	2:H:676:LEU:HB3	2.21	0.41
2:H:737:PHE:HA	2:H:738:PRO:HD3	1.85	0.41
2:I:1257:VAL:HA	2:I:1258:PRO:HD3	1.82	0.41
2:I:1497:ARG:O	2:I:1505:SER:HB3	2.21	0.41
2:I:1783:GLU:CD	2:I:1783:GLU:H	2.24	0.41
2:I:2044:THR:C	2:I:2046:LYS:H	2.24	0.41
1:C:20:TYR:CE2	2:I:2062:THR:HG23	2.56	0.41
2:I:2073:ASN:O	2:I:2076:LYS:N	2.53	0.41
2:I:283:THR:HG23	2:I:470:TYR:O	2.21	0.41
2:I:609:THR:HG22	2:I:633:GLY:CA	2.51	0.41
2:I:718:PRO:HG2	2:I:741:LEU:HD11	2.03	0.41
2:I:979:LEU:HD21	2:I:999:ALA:CB	2.51	0.41
2:J:1764:MET:HB3	2:J:1780:ILE:CG1	2.51	0.41
2:J:1940:ALA:HA	2:J:1995:THR:HG21	2.02	0.41
2:J:2009:PHE:O	2:J:2009:PHE:HD2	2.03	0.41
1:E:71:ALA:CB	2:J:371:HIS:HB2	2.51	0.41
2:J:41:LEU:HD13	2:J:100:GLU:HB3	2.02	0.41
2:J:716:PHE:HD1	2:J:727:VAL:HG13	1.85	0.41
2:J:95:HIS:CB	2:J:96:PRO:HD3	2.49	0.41
2:K:1375:HIS:CE1	2:K:1610:MET:SD	3.12	0.41
2:K:1701:GLU:N	2:K:1704:MET:HE3	2.33	0.41
2:K:1751:GLY:O	2:K:1752:PRO:C	2.60	0.41
2:K:1805:PHE:C	2:K:1808:PRO:HD2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1969:LEU:HA	2:K:1972:ILE:CD1	2.50	0.41
2:K:44:GLN:O	2:K:48:LEU:HG	2.20	0.41
2:K:172:ILE:HG22	2:K:514:VAL:C	2.42	0.41
2:K:717:LYS:HD2	4:K:2101:FMN:O2	2.21	0.41
2:L:928:ASP:C	2:L:1007:LEU:HD23	2.41	0.41
2:L:1343:PHE:CE2	2:L:1388:PRO:HD2	2.56	0.41
2:L:1662:ARG:HH11	2:L:1684:GLU:HB3	1.86	0.41
2:L:1740:ASN:O	2:L:1742:PRO:HD3	2.21	0.41
2:L:2053:GLU:HG3	2:L:2053:GLU:H	1.68	0.41
2:L:253:ILE:O	2:L:257:GLN:HG3	2.21	0.41
2:L:314:LEU:O	2:L:318:ILE:HG13	2.21	0.41
2:L:342:ASN:OD1	2:L:406:ARG:CZ	2.68	0.41
2:L:541:LEU:HG	2:L:552:VAL:HG11	2.02	0.41
2:L:615:TRP:HA	2:L:618:VAL:CG1	2.50	0.41
2:L:788:THR:HG21	2:L:810:CYS:SG	2.61	0.41
2:L:910:PHE:O	2:L:1063:ARG:HD3	2.21	0.41
1:A:1698:ASN:C	1:A:1698:ASN:OD1	2.58	0.41
1:B:1554:LEU:HB3	1:B:1586:VAL:HG11	2.03	0.41
1:B:1651:TYR:CE2	1:B:1655:CYS:SG	3.14	0.41
1:B:1686:PRO:HD2	1:B:1687:TYR:CE2	2.56	0.41
1:B:967:PHE:HB3	1:B:968:PRO:HD2	2.02	0.41
1:C:1232:LEU:HD23	1:C:1253:SER:HB2	2.01	0.41
1:C:1393:VAL:N	1:C:1394:PRO:HD3	2.36	0.41
1:C:407:ARG:CZ	1:C:1606:VAL:HG23	2.51	0.41
1:C:474:ILE:O	1:C:478:LYS:HG3	2.21	0.41
1:D:1302:CYS:O	1:D:1362:ILE:HG12	2.21	0.41
1:D:1440:TYR:O	1:D:1444:GLN:HB2	2.20	0.41
1:D:1562:THR:HB	1:D:1572:TRP:CZ3	2.55	0.41
1:D:1521:SER:HB2	1:D:1577:CYS:SG	2.61	0.41
1:D:619:LYS:HE3	1:D:619:LYS:HB2	1.85	0.41
1:D:715:ASN:ND2	3:D:1901:NAP:H62A	2.19	0.41
1:E:1338:GLY:C	1:E:1340:MET:N	2.74	0.41
1:E:1562:THR:HB	1:E:1572:TRP:CZ3	2.56	0.41
1:E:1698:ASN:C	1:E:1698:ASN:OD1	2.58	0.41
1:E:1698:ASN:HA	1:E:1699:PRO:HD3	1.83	0.41
1:E:522:TYR:O	1:E:526:MET:HG2	2.21	0.41
1:E:749:ILE:HA	1:E:750:PRO:HD3	1.89	0.41
1:E:970:LEU:HD21	1:E:1658:VAL:HG11	2.03	0.41
1:F:1491:ASN:ND2	1:F:1491:ASN:N	2.69	0.41
2:G:1783:GLU:CD	2:G:1783:GLU:H	2.24	0.41
2:G:68:GLU:HB3	2:G:69:PRO:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:946:HIS:CE1	2:G:947:GLU:HG3	2.56	0.41
2:H:1706:MET:HE2	2:H:1738:VAL:HG11	2.03	0.41
2:H:1844:LEU:HD22	2:H:1850:VAL:HG21	2.03	0.41
2:H:1981:GLU:O	2:H:1984:PRO:HG3	2.21	0.41
2:H:200:LEU:H	2:H:200:LEU:HD23	1.86	0.41
2:H:228:LEU:O	2:H:232:HIS:CD2	2.71	0.41
2:H:36:LEU:HA	2:H:36:LEU:HD12	1.92	0.41
2:H:863:GLU:HA	2:H:864:PRO:HD3	1.82	0.41
2:H:914:TRP:CH2	2:H:1033:ALA:HA	2.56	0.41
2:H:960:GLY:O	2:H:963:ILE:HB	2.21	0.41
2:I:787:ASP:CG	2:I:1075:TYR:HE2	2.25	0.41
2:I:1343:PHE:CE2	2:I:1388:PRO:HD2	2.56	0.41
2:I:1844:LEU:HD22	2:I:1850:VAL:HG21	2.02	0.41
2:I:216:ASP:CB	2:I:321:ARG:HH12	2.34	0.41
2:I:268:LEU:HB3	2:I:270:ARG:HD3	2.02	0.41
2:I:472:THR:CG2	2:I:499:VAL:HG22	2.51	0.41
2:I:60:THR:HG22	2:I:62:GLU:HG3	2.03	0.41
2:I:856:THR:HA	2:I:865:ILE:O	2.21	0.41
1:C:962:ASN:CB	2:I:969:ARG:HD2	2.51	0.41
2:J:1057:TYR:C	2:J:1059:GLN:H	2.23	0.41
2:J:1782:LYS:H	2:J:1782:LYS:HG2	1.72	0.41
2:J:186:LEU:HG	2:J:256:VAL:CG2	2.50	0.41
2:J:276:LEU:O	2:J:467:ILE:CD1	2.69	0.41
2:J:595:SER:CB	2:J:602:PRO:HG3	2.32	0.41
2:K:747:ARG:O	2:K:1070:PRO:HD2	2.20	0.41
2:K:1104:ASP:OD1	2:K:1104:ASP:N	2.54	0.41
2:K:137:VAL:O	2:K:141:TYR:HD1	2.04	0.41
1:E:49:PRO:HB2	2:K:1699:SER:O	2.21	0.41
2:K:1709:TYR:HE2	2:K:1716:LYS:HG2	1.86	0.41
2:K:1762:MET:HA	2:K:1779:LYS:HE2	2.02	0.41
2:K:1918:VAL:HG13	2:K:2006:HIS:CB	2.50	0.41
2:K:1903:VAL:HG13	2:K:1942:VAL:HG11	2.03	0.41
2:K:1966:ARG:HG3	2:K:1967:ALA:N	2.36	0.41
2:K:2008:THR:O	2:K:2011:ARG:HG3	2.21	0.41
2:K:226:ASP:OD2	2:K:229:GLN:HB2	2.20	0.41
2:K:22:ARG:HD2	2:K:42:HIS:CB	2.51	0.41
2:K:894:GLU:OE2	2:K:897:LYS:HD3	2.21	0.41
2:L:1047:LEU:CD1	2:L:1047:LEU:H	2.30	0.41
2:L:1265:TYR:CZ	2:L:1267:PRO:HG3	2.53	0.41
2:L:1289:TYR:OH	2:L:1371:LEU:HA	2.21	0.41
2:L:1406:ASN:HA	2:L:1411:LYS:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1616:VAL:HG13	2:L:1635:TYR:OH	2.21	0.41
2:L:1766:PHE:HB2	2:L:1780:ILE:HG12	2.03	0.41
2:L:349:PRO:O	2:L:392:THR:HA	2.20	0.41
2:L:595:SER:HB2	2:L:600:VAL:O	2.21	0.41
2:L:690:LEU:HB2	2:L:711:ILE:HG21	2.03	0.41
2:L:938:MET:HE1	2:L:959:THR:HA	2.03	0.41
1:A:1162:GLY:O	1:A:1354:SER:HA	2.21	0.40
1:A:816:GLU:OE2	1:F:827:ARG:NE	2.53	0.40
1:A:868:VAL:HG22	1:A:869:ARG:H	1.85	0.40
1:B:506:ILE:HD11	1:B:926:SER:CB	2.51	0.40
1:C:1042:LEU:O	1:C:1043:LYS:HB2	2.21	0.40
1:C:746:PHE:CG	3:C:1901:NAP:H4D	2.56	0.40
1:D:1323:ALA:CB	1:D:1351:PHE:HE2	2.34	0.40
1:D:27:ARG:NE	2:J:2043:VAL:O	2.53	0.40
1:D:828:TRP:NE1	1:D:838:THR:HA	2.31	0.40
1:E:13:LEU:HG	2:K:2048:PHE:CE1	2.55	0.40
1:E:1648:LYS:O	1:E:1652:GLU:HB2	2.20	0.40
1:E:452:ILE:CD1	1:E:470:GLY:HA3	2.45	0.40
1:E:534:GLN:HA	1:E:610:GLU:O	2.22	0.40
1:E:526:MET:CE	1:E:614:PHE:HB3	2.51	0.40
1:B:579:MET:HE1	1:E:907:PHE:CE1	2.56	0.40
1:F:1057:GLU:HA	1:F:1058:PRO:HD3	1.88	0.40
1:F:1395:ALA:HA	1:F:1396:PRO:HD3	1.81	0.40
1:F:1446:GLU:HA	1:F:1449:ALA:HB3	2.04	0.40
1:F:1680:VAL:HG12	1:F:1680:VAL:O	2.20	0.40
1:F:352:ARG:HB2	1:F:352:ARG:HE	1.56	0.40
2:G:785:SER:CB	2:G:1094:HIS:CD2	3.04	0.40
2:G:1972:ILE:HG13	2:G:1972:ILE:H	1.39	0.40
2:G:351:LEU:HD22	2:G:352:SER:H	1.86	0.40
2:G:700:GLU:HA	2:G:703:ASN:HB2	2.02	0.40
2:H:1106:LYS:HD3	2:H:1106:LYS:HA	1.80	0.40
2:H:1410:GLY:HA2	2:H:1437:GLY:H	1.86	0.40
2:H:1624:ALA:CB	2:H:1665:ILE:HD13	2.51	0.40
2:H:1725:HIS:CD2	2:H:1854:GLU:HB2	2.56	0.40
2:H:1871:VAL:CG1	2:H:1872:GLU:N	2.84	0.40
2:H:1903:VAL:HG13	2:H:1942:VAL:HG11	2.03	0.40
2:H:1974:GLN:HE21	2:H:1977:ARG:HH21	1.69	0.40
2:H:764:MET:O	2:H:765:TYR:C	2.59	0.40
2:H:929:MET:CE	2:H:934:VAL:HG22	2.51	0.40
2:I:1050:SER:HA	2:I:1064:THR:HG21	2.02	0.40
2:I:1181:PHE:HE1	2:I:1191:PRO:HD2	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1960:MET:HB3	2:I:1964:ASP:CB	2.51	0.40
1:C:23:ALA:CA	2:I:2007:SER:O	2.69	0.40
2:I:2038:LYS:HA	2:I:2038:LYS:HD3	1.88	0.40
2:I:441:SER:C	2:I:443:TYR:H	2.25	0.40
2:I:174:GLY:HA2	2:I:524:ILE:HG12	2.03	0.40
2:I:865:ILE:HG22	2:I:867:LYS:HG3	2.04	0.40
2:I:938:MET:O	2:I:942:MET:HG3	2.21	0.40
2:I:950:TRP:NE1	2:I:956:LYS:HD3	2.35	0.40
2:J:1410:GLY:HA2	2:J:1437:GLY:O	2.21	0.40
2:J:1604:GLY:O	2:J:1644:LEU:HD22	2.21	0.40
2:J:1750:GLY:N	2:J:1754:GLY:HA3	2.36	0.40
2:J:1884:CYS:HB3	2:J:1936:LEU:CD1	2.48	0.40
2:J:1891:ILE:HG22	2:J:1892:SER:N	2.36	0.40
2:J:1886:VAL:CG1	2:J:1900:LEU:HD11	2.52	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:CB	2.51	0.40
2:J:297:THR:HG22	2:J:298:ALA:N	2.36	0.40
2:K:1048:TRP:NE1	2:K:1049:GLN:HG2	2.33	0.40
2:K:298:ALA:HA	2:K:303:GLU:HG2	2.04	0.40
2:K:331:LEU:CD2	2:K:396:ILE:HG13	2.51	0.40
2:K:536:GLY:HA2	2:K:569:ALA:O	2.22	0.40
2:K:700:GLU:HA	2:K:703:ASN:HB2	2.03	0.40
2:K:838:VAL:HG12	2:K:839:ASP:N	2.36	0.40
2:L:1031:VAL:HA	2:L:1032:PRO:HD3	1.69	0.40
2:L:1762:MET:HE2	2:L:1762:MET:HB3	2.01	0.40
2:L:1725:HIS:CD2	2:L:1854:GLU:HB2	2.56	0.40
2:L:1903:VAL:HG11	2:L:1943:LEU:HD21	2.03	0.40
2:L:1969:LEU:HA	2:L:1972:ILE:CD1	2.51	0.40
2:L:314:LEU:HG	2:L:318:ILE:CD1	2.47	0.40
2:L:437:ALA:HA	2:L:438:PRO:HD3	1.80	0.40
2:L:540:ILE:HA	2:L:553:GLY:O	2.21	0.40
1:A:1554:LEU:HB3	1:A:1586:VAL:HG11	2.04	0.40
1:A:967:PHE:HB3	1:A:968:PRO:HD2	2.04	0.40
1:B:1307:PHE:CB	1:B:1357:CYS:HB3	2.51	0.40
1:B:1441:LEU:O	1:B:1444:GLN:HB3	2.21	0.40
1:B:1514:ILE:HG13	1:B:1514:ILE:H	1.35	0.40
1:B:484:PRO:HA	1:B:485:PRO:HD3	1.80	0.40
1:C:1198:LEU:HA	1:C:1198:LEU:HD23	1.89	0.40
1:C:1268:SER:OG	1:C:1686:PRO:HD3	2.22	0.40
1:C:522:TYR:O	1:C:526:MET:HG2	2.22	0.40
1:C:502:ALA:CA	1:C:929:ARG:HD3	2.50	0.40
1:D:1050:TRP:HE3	1:D:1050:TRP:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1191:LEU:HA	1:D:1191:LEU:HD23	1.82	0.40
1:D:1494:TRP:CG	1:D:1505:GLY:HA3	2.55	0.40
1:D:726:VAL:HG21	1:D:780:ALA:HB3	2.03	0.40
1:E:1102:ILE:HG13	1:E:1102:ILE:H	1.66	0.40
1:E:1310:PHE:CE1	1:E:1315:SER:HB2	2.56	0.40
1:E:1692:GLN:HG3	1:E:1696:PHE:CE2	2.56	0.40
1:E:18:LEU:HD21	2:K:1844:LEU:CD1	2.51	0.40
1:E:857:ASN:HA	1:E:860:ALA:HB2	2.02	0.40
1:F:1303:LEU:HA	1:F:1303:LEU:HD23	1.60	0.40
1:F:835:ASN:N	1:F:835:ASN:OD1	2.54	0.40
2:G:1016:PHE:O	2:G:1019:LEU:HB2	2.21	0.40
2:G:1253:GLU:H	2:G:1253:GLU:HG2	1.74	0.40
2:G:1299:VAL:HG22	2:G:1301:PHE:CG	2.56	0.40
2:G:1455:GLN:HB2	2:G:1551:ILE:CG1	2.51	0.40
1:A:928:ILE:HG12	2:G:1462:GLN:HB2	2.03	0.40
1:A:11:TYR:CG	2:G:2027:LYS:HG2	2.56	0.40
2:G:396:ILE:H	2:G:396:ILE:CD1	2.33	0.40
2:G:819:ALA:HA	2:G:1081:GLU:O	2.20	0.40
2:H:1269:ALA:HB1	2:H:1271:TYR:CZ	2.55	0.40
2:H:1299:VAL:HG22	2:H:1301:PHE:CG	2.56	0.40
2:H:1537:GLY:O	2:H:1539:PRO:HD3	2.21	0.40
2:H:1799:LEU:C	2:H:1801:SER:H	2.23	0.40
2:H:2010:LEU:O	2:H:2014:VAL:HG23	2.20	0.40
2:H:2073:ASN:O	2:H:2076:LYS:N	2.54	0.40
2:H:268:LEU:HB3	2:H:270:ARG:HD3	2.03	0.40
2:H:652:ILE:O	2:H:654:PRO:HD3	2.22	0.40
2:I:38:PRO:CD	2:I:104:LEU:HD11	2.46	0.40
2:I:80:ILE:HG12	2:I:105:ILE:CG2	2.51	0.40
2:I:111:ARG:HE	2:I:111:ARG:HB2	1.73	0.40
2:I:1455:GLN:HB2	2:I:1551:ILE:CG1	2.52	0.40
2:I:1861:PHE:O	2:I:1865:LEU:HG	2.21	0.40
2:I:351:LEU:O	2:I:390:VAL:HA	2.21	0.40
2:I:433:LEU:HA	2:I:434:PRO:HD3	1.85	0.40
2:I:48:LEU:HG	2:I:48:LEU:H	1.51	0.40
2:J:1236:LEU:HD12	2:J:1242:ILE:HA	2.03	0.40
2:J:1250:ARG:CD	2:J:1250:ARG:H	2.34	0.40
2:J:1406:ASN:HA	2:J:1411:LYS:HA	2.03	0.40
2:J:1515:LEU:HB2	2:J:1525:VAL:HG21	2.03	0.40
2:J:1517:LEU:CD2	2:J:1523:ILE:HD11	2.51	0.40
2:J:208:LEU:HD23	2:J:211:LEU:HD12	2.03	0.40
2:J:22:ARG:HD2	2:J:42:HIS:CB	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:685:VAL:HG13	2:J:686:PRO:HD2	2.03	0.40
2:K:1356:ALA:HB3	2:K:1397:THR:CG2	2.50	0.40
2:K:1760:ASN:O	2:K:1764:MET:HG2	2.21	0.40
2:K:1803:THR:C	2:K:1805:PHE:N	2.74	0.40
1:E:11:TYR:HD1	2:K:2030:ILE:CD1	2.34	0.40
2:K:468:PRO:HA	2:K:479:ARG:HD3	2.03	0.40
2:K:535:THR:OG1	2:K:537:VAL:HG23	2.22	0.40
2:K:847:TYR:HA	2:K:856:THR:OG1	2.21	0.40
2:K:882:LYS:HD3	2:K:898:ARG:CZ	2.51	0.40
2:K:938:MET:HE1	2:K:959:THR:HA	2.03	0.40
2:L:1464:LEU:C	2:L:1464:LEU:HD13	2.42	0.40
2:L:1507:VAL:HG23	2:L:1530:TYR:HE2	1.86	0.40
2:L:1455:GLN:HB2	2:L:1551:ILE:HG13	2.02	0.40
2:L:297:THR:HG22	2:L:298:ALA:N	2.35	0.40
2:L:501:TRP:CZ2	2:L:528:THR:CG2	3.02	0.40
2:L:827:GLN:O	2:L:830:GLN:HB3	2.20	0.40
1:A:1065:LYS:O	1:A:1069:GLU:HB2	2.21	0.40
1:A:1475:GLU:O	1:A:1478:ALA:HB3	2.21	0.40
1:A:1514:ILE:HD13	1:A:1545:LEU:CB	2.51	0.40
1:A:746:PHE:CD1	1:A:800:PRO:HG3	2.56	0.40
1:A:93:GLU:HA	1:A:94:PRO:HD3	1.82	0.40
1:B:1104:GLN:NE2	1:D:1106:LEU:HD12	2.36	0.40
1:B:1148:LEU:HD23	1:B:1148:LEU:HA	1.61	0.40
1:B:1393:VAL:N	1:B:1394:PRO:HD3	2.36	0.40
1:B:1536:ASP:O	1:B:1540:GLN:HG3	2.22	0.40
1:B:433:CYS:SG	1:B:473:LEU:HD13	2.61	0.40
1:B:50:SER:HB2	1:B:52:THR:HG23	2.02	0.40
1:B:554:ARG:O	1:B:555:GLN:HG3	2.20	0.40
1:C:1405:ARG:HA	1:F:1697:LEU:O	2.21	0.40
1:C:1687:TYR:N	1:C:1687:TYR:CD2	2.88	0.40
1:C:18:LEU:HD21	2:I:1844:LEU:CD1	2.51	0.40
1:B:1414:PRO:HD2	1:D:1473:HIS:CD2	2.57	0.40
1:D:650:PHE:CE2	1:D:881:LEU:HD22	2.57	0.40
1:E:1303:LEU:HD23	1:E:1303:LEU:HA	1.71	0.40
1:E:452:ILE:HD13	1:E:452:ILE:HA	1.91	0.40
1:E:904:GLY:HA2	1:E:906:GLN:CD	2.41	0.40
1:F:1491:ASN:ND2	1:F:1491:ASN:H	2.19	0.40
1:A:347:LEU:HD12	1:F:340:LEU:HD12	2.02	0.40
1:A:340:LEU:HD12	1:F:347:LEU:HD12	2.02	0.40
1:F:574:ILE:H	1:F:574:ILE:HG12	1.72	0.40
2:G:1321:VAL:HG12	2:G:1322:ALA:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1406:ASN:HA	2:G:1411:LYS:HA	2.02	0.40
2:G:1520:LYS:HD2	2:G:1520:LYS:N	2.36	0.40
2:G:1472:TRP:CD2	2:G:1540:VAL:HG22	2.57	0.40
2:G:1624:ALA:HB2	2:G:1665:ILE:HD13	2.03	0.40
2:G:1891:ILE:HG22	2:G:1892:SER:N	2.35	0.40
2:G:1904:VAL:HG13	2:G:1915:LEU:HD23	2.04	0.40
2:G:216:ASP:CB	2:G:321:ARG:HH12	2.34	0.40
2:G:448:HIS:CD2	2:G:491:VAL:CG1	3.01	0.40
2:G:512:HIS:HE1	2:G:566:VAL:HG13	1.86	0.40
2:G:637:ASN:ND2	2:G:639:GLN:HB3	2.36	0.40
2:G:747:ARG:HH11	2:G:780:SER:CB	2.29	0.40
2:G:48:LEU:HD13	2:G:83:VAL:HG22	2.03	0.40
2:G:931:TYR:CD2	2:G:966:VAL:HG13	2.57	0.40
2:H:1067:LEU:N	2:H:1067:LEU:HD12	2.36	0.40
2:H:1257:VAL:HA	2:H:1258:PRO:HD3	1.77	0.40
2:H:1517:LEU:CD2	2:H:1523:ILE:HD11	2.51	0.40
2:H:1845:VAL:CG2	2:H:1856:LEU:HD22	2.49	0.40
2:H:1915:LEU:HB2	2:H:1935:ALA:HB1	2.02	0.40
2:H:2058:VAL:CG1	2:H:2067:ILE:HD12	2.51	0.40
2:H:220:GLN:O	2:H:222:PRO:HD3	2.20	0.40
2:H:271:GLU:H	2:H:274:GLU:CG	2.34	0.40
2:H:461:PRO:HB3	2:H:483:ASP:O	2.21	0.40
2:H:601:PRO:HA	2:H:602:PRO:HD3	1.81	0.40
2:H:617:PHE:CD1	2:H:822:ALA:CA	3.04	0.40
2:I:1321:VAL:HG12	2:I:1322:ALA:N	2.36	0.40
1:A:68:TYR:CD1	2:I:371:HIS:CD2	3.09	0.40
2:I:656:ARG:NH1	2:I:656:ARG:CG	2.80	0.40
2:I:676:LEU:HA	2:I:679:ARG:NH2	2.36	0.40
2:I:737:PHE:HA	2:I:738:PRO:HD3	1.83	0.40
2:I:616:ASP:OD2	2:I:823:HIS:CE1	2.74	0.40
2:I:917:ARG:NH1	2:I:921:GLY:O	2.55	0.40
2:J:1309:PHE:N	2:J:1309:PHE:CD1	2.89	0.40
2:J:1473:PHE:CE1	2:J:1513:VAL:HG21	2.56	0.40
2:J:1507:VAL:HG23	2:J:1530:TYR:HE2	1.87	0.40
2:J:416:GLN:C	2:J:418:ARG:H	2.24	0.40
2:J:512:HIS:HE1	2:J:566:VAL:HG13	1.87	0.40
2:J:536:GLY:HA2	2:J:569:ALA:O	2.22	0.40
2:J:637:ASN:ND2	2:J:639:GLN:HB3	2.35	0.40
2:J:690:LEU:HB2	2:J:711:ILE:HG21	2.03	0.40
2:J:759:GLN:N	2:J:760:PRO:CD	2.85	0.40
2:J:796:TRP:CG	2:J:797:SER:N	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1081:GLU:HG2	2:K:1086:ILE:HG12	2.03	0.40
2:K:1745:LEU:HD12	2:K:1746:THR:N	2.37	0.40
2:K:327:PRO:CD	2:L:1338:ARG:NH2	2.84	0.40
2:K:582:LYS:HG3	2:K:1110:VAL:CG1	2.51	0.40
2:K:670:MET:HB3	2:K:670:MET:HE2	1.82	0.40
2:K:759:GLN:N	2:K:760:PRO:CD	2.83	0.40
2:L:1127:GLU:HA	2:L:1128:PRO:HD3	1.84	0.40
2:L:1278:MET:HA	2:L:1281:ARG:HB2	2.03	0.40
2:L:1851:MET:HE1	2:L:1859:VAL:HG21	2.03	0.40
2:L:1934:ARG:O	2:L:1938:THR:HG23	2.21	0.40
1:F:11:TYR:CD1	2:L:2027:LYS:HA	2.56	0.40
2:L:605:VAL:O	2:L:628:ILE:HA	2.20	0.40
2:L:854:VAL:HA	2:L:867:LYS:O	2.21	0.40
2:L:876:TRP:HD1	2:L:876:TRP:C	2.21	0.40
2:L:937:ARG:CZ	2:L:941:LEU:HD11	2.50	0.40
1:A:1094:LYS:HE3	1:A:1316:TYR:CG	2.54	0.40
1:A:1467:LEU:HD23	1:A:1467:LEU:HA	1.90	0.40
1:A:1562:THR:HB	1:A:1572:TRP:CZ3	2.56	0.40
1:A:1584:GLY:HA2	1:A:1617:ILE:HD12	2.03	0.40
1:A:1617:ILE:N	1:A:1617:ILE:CD1	2.79	0.40
1:A:681:ILE:HG23	1:A:681:ILE:O	2.21	0.40
1:B:1514:ILE:CD1	1:B:1545:LEU:HB3	2.51	0.40
1:C:1223:GLY:CA	1:C:1276:PRO:HD2	2.51	0.40
1:C:1545:LEU:HA	1:C:1545:LEU:HD23	1.62	0.40
1:C:537:ASN:HB2	1:C:585:MET:SD	2.61	0.40
1:D:1232:LEU:HD23	1:D:1253:SER:HB2	2.03	0.40
1:D:1162:GLY:O	1:D:1354:SER:HA	2.21	0.40
1:D:21:GLN:O	2:J:2006:HIS:HD2	2.03	0.40
1:D:709:LEU:HA	1:D:709:LEU:HD23	1.81	0.40
1:A:1435:TRP:HD1	1:E:1427:LEU:HD11	1.86	0.40
1:E:1565:PRO:HG3	1:E:1572:TRP:CH2	2.54	0.40
1:E:958:GLU:HA	1:E:959:PRO:HD3	1.85	0.40
1:F:1107:GLU:CG	1:F:1108:PRO:HD2	2.40	0.40
1:F:1321:MET:HB3	1:F:1321:MET:HE2	1.78	0.40
1:F:632:LEU:O	1:F:633:THR:C	2.59	0.40
1:F:726:VAL:HG21	1:F:780:ALA:HB3	2.04	0.40
1:F:970:LEU:HA	1:F:971:PRO:HD3	1.98	0.40
2:G:1410:GLY:HA2	2:G:1437:GLY:H	1.86	0.40
2:G:1708:LEU:HD22	2:G:1708:LEU:O	2.21	0.40
2:G:237:GLN:HA	2:G:238:PRO:HD3	1.87	0.40
2:G:382:LEU:HG	2:G:390:VAL:HB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:662:LEU:HD22	2:G:673:GLN:OE1	2.22	0.40
2:G:906:LEU:HD22	2:G:906:LEU:HA	1.78	0.40
2:H:1820:ASP:O	2:H:1823:SER:HB3	2.21	0.40
2:H:2031:ASP:C	2:H:2033:SER:N	2.74	0.40
4:H:2101:FMN:HO2'	4:H:2101:FMN:C10	2.32	0.40
2:H:196:PHE:CD1	2:H:266:LYS:HB3	2.57	0.40
2:H:332:ALA:HB3	2:H:335:THR:OG1	2.22	0.40
2:H:785:SER:O	2:H:789:TYR:HB2	2.21	0.40
2:H:887:ASP:O	2:H:888:ARG:C	2.60	0.40
2:I:1236:LEU:HD12	2:I:1242:ILE:HA	2.03	0.40
2:I:1293:TRP:NE1	2:I:1354:TRP:HZ2	2.18	0.40
2:I:1410:GLY:HA2	2:I:1437:GLY:H	1.86	0.40
2:I:1589:PRO:HB2	2:I:1596:PHE:HB3	2.04	0.40
2:I:162:ALA:CA	2:I:167:VAL:HG22	2.49	0.40
2:I:1384:PRO:HB3	2:I:1829:ARG:HH12	1.86	0.40
2:I:2050:ILE:O	2:I:2050:ILE:HG12	2.21	0.40
2:I:538:ARG:HD2	2:I:539:VAL:H	1.87	0.40
2:I:541:LEU:HG	2:I:552:VAL:HG11	2.02	0.40
2:I:717:LYS:N	2:I:718:PRO:HD3	2.37	0.40
2:I:815:ARG:NH2	2:I:1086:ILE:CG2	2.85	0.40
2:I:930:THR:O	2:I:934:VAL:HG23	2.21	0.40
2:I:976:GLN:HA	2:I:977:PRO:HD3	1.92	0.40
2:J:1040:TYR:CE1	2:J:1044:LYS:HD2	2.57	0.40
2:J:1171:TRP:CG	2:J:1172:ARG:N	2.90	0.40
2:J:1810:LEU:HA	2:J:1810:LEU:HD23	1.85	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:HB2	2.03	0.40
2:J:1910:VAL:HG11	2:J:1973:ILE:CG2	2.51	0.40
2:J:290:VAL:HB	2:J:315:LEU:HD11	2.03	0.40
2:J:279:PHE:HB2	2:J:467:ILE:HD12	2.02	0.40
2:J:501:TRP:CZ2	2:J:528:THR:CG2	3.04	0.40
2:J:511:THR:O	2:J:512:HIS:CD2	2.75	0.40
2:J:817:MET:HE2	2:J:817:MET:HB3	1.84	0.40
2:J:890:LYS:HB2	2:J:890:LYS:HE3	1.78	0.40
2:K:1472:TRP:CD2	2:K:1540:VAL:HG22	2.56	0.40
2:K:1764:MET:O	2:K:1780:ILE:HG13	2.22	0.40
2:K:1884:CYS:CB	2:K:1936:LEU:HD12	2.46	0.40
2:K:396:ILE:N	2:K:396:ILE:HD12	2.36	0.40
2:K:529:ASN:ND2	2:K:552:VAL:HG23	2.34	0.40
2:K:615:TRP:HA	2:K:618:VAL:CG1	2.52	0.40
2:K:907:ASN:HD21	2:K:917:ARG:HE	1.69	0.40
2:L:1041:TRP:CE3	2:L:1041:TRP:HA	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1236:LEU:HD21	2:L:1239:ASP:O	2.21	0.40
2:L:1316:VAL:HG21	2:L:1393:ASP:HB2	2.04	0.40
2:K:376:ARG:NH2	2:L:1340:LYS:CG	2.85	0.40
2:L:1358:THR:O	2:L:1361:ILE:HG13	2.22	0.40
2:L:1577:ASN:OD1	2:L:1607:THR:HA	2.21	0.40
2:L:1764:MET:HG3	2:L:1781:PHE:CD1	2.56	0.40
2:L:1769:VAL:HG22	2:L:1775:ILE:HG23	2.03	0.40
2:L:1880:ASN:HB3	2:L:1881:TYR:CE1	2.56	0.40
2:L:540:ILE:HD13	2:L:557:GLU:HB2	2.04	0.40
2:L:856:THR:HG23	2:L:866:HIS:NE2	2.36	0.40
2:L:890:LYS:HB2	2:L:890:LYS:HE3	1.79	0.40
1:A:1104:GLN:HG3	1:A:1105:ASP:O	2.22	0.40
1:A:12:THR:CG2	2:G:2066:LYS:HD3	2.51	0.40
1:A:1527:THR:OG1	1:A:1530:ASN:HB3	2.21	0.40
1:A:1268:SER:OG	1:A:1686:PRO:HD3	2.21	0.40
1:A:47:ILE:CD1	2:G:1818:PHE:CD1	3.04	0.40
1:A:996:VAL:HG11	1:A:1578:LEU:HD11	2.04	0.40
1:B:1086:PHE:CZ	1:B:1310:PHE:HD2	2.39	0.40
1:B:1363:MET:HE3	1:B:1368:ALA:CB	2.52	0.40
1:B:1365:ALA:O	1:B:1368:ALA:HB3	2.21	0.40
1:B:1599:MET:HA	1:B:1602:PHE:HD2	1.87	0.40
1:B:904:GLY:HA2	1:B:906:GLN:CD	2.41	0.40
1:C:1185:PRO:O	1:C:1188:LEU:HB2	2.21	0.40
1:C:1440:TYR:O	1:C:1444:GLN:HB2	2.21	0.40
1:C:1466:TYR:CE2	1:C:1470:ARG:HG3	2.56	0.40
1:C:1280:CYS:HA	1:C:1566:LYS:O	2.21	0.40
1:C:681:ILE:HG23	1:C:681:ILE:O	2.21	0.40
1:C:759:ILE:N	1:C:759:ILE:HD12	2.37	0.40
1:E:1099:GLU:HA	1:E:1149:LEU:HD23	2.03	0.40
1:E:1191:LEU:HA	1:E:1191:LEU:HD23	1.95	0.40
1:E:1553:VAL:HG22	1:E:1604:TYR:O	2.21	0.40
1:E:405:TRP:CH2	1:E:1609:SER:HB3	2.56	0.40
1:E:612:ILE:CD1	1:E:628:TYR:HD2	2.34	0.40
1:E:782:LYS:NZ	1:E:786:LYS:HD2	2.35	0.40
1:E:650:PHE:CE2	1:E:881:LEU:HD22	2.57	0.40
1:E:636:TYR:CE1	1:E:883:LEU:HD23	2.57	0.40
1:F:1199:LEU:HD23	1:F:1199:LEU:O	2.22	0.40
1:F:1301:VAL:HG22	1:F:1302:CYS:H	1.86	0.40
1:F:1703:VAL:HG22	1:F:1712:LYS:C	2.41	0.40
1:F:827:ARG:NH1	1:F:831:GLU:OE2	2.55	0.40
2:G:1083:ILE:H	2:G:1083:ILE:HG13	1.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1248:GLU:OE2	2:G:1250:ARG:HG2	2.22	0.40
2:G:1745:LEU:HD12	2:G:1746:THR:H	1.86	0.40
2:G:1951:ILE:H	2:G:1951:ILE:HD12	1.86	0.40
2:G:2073:ASN:O	2:G:2076:LYS:N	2.54	0.40
2:G:220:GLN:O	2:G:222:PRO:HD3	2.20	0.40
2:G:613:VAL:H	2:G:614:PRO:HD3	1.85	0.40
2:G:789:TYR:O	2:G:792:LEU:HB3	2.22	0.40
2:G:797:SER:O	2:G:802:TYR:HB2	2.21	0.40
2:H:111:ARG:HB2	2:H:111:ARG:HE	1.71	0.40
2:H:1236:LEU:HD12	2:H:1242:ILE:HA	2.03	0.40
2:H:1261:PHE:HE2	2:H:1285:ILE:HD11	1.87	0.40
2:H:1313:ARG:HG3	2:H:1394:VAL:CG1	2.52	0.40
2:H:169:ILE:HG22	2:H:279:PHE:CD2	2.57	0.40
2:H:1706:MET:HE2	2:H:1738:VAL:CG1	2.51	0.40
2:H:1734:ILE:HG13	2:H:1735:ILE:N	2.36	0.40
2:H:1891:ILE:HG22	2:H:1892:SER:N	2.36	0.40
2:H:1933:LEU:HB3	2:H:1987:VAL:HB	2.03	0.40
2:H:221:TYR:N	2:H:222:PRO:HD3	2.35	0.40
2:H:472:THR:HG22	2:H:473:LYS:N	2.37	0.40
2:H:747:ARG:NH2	2:H:757:PHE:CE1	2.90	0.40
2:H:866:HIS:HB3	2:H:1068:GLN:O	2.22	0.40
2:H:875:PHE:HE2	2:H:906:LEU:HD23	1.87	0.40
2:I:1048:TRP:NE1	2:I:1049:GLN:HG2	2.34	0.40
2:I:1067:LEU:CB	4:I:2101:FMN:HM82	2.52	0.40
2:I:138:ARG:HB2	2:I:192:THR:HA	2.03	0.40
2:I:1488:LEU:HB2	2:I:1490:PHE:HE1	1.86	0.40
2:I:1619:LEU:O	2:I:1623:TRP:HB2	2.21	0.40
2:I:1702:GLN:HB2	2:I:1702:GLN:HE21	1.68	0.40
2:I:1845:VAL:CB	2:I:1856:LEU:HD22	2.52	0.40
2:I:1865:LEU:O	2:I:1869:VAL:HG22	2.21	0.40
2:I:637:ASN:ND2	2:I:639:GLN:HB3	2.37	0.40
2:J:48:LEU:HD11	2:J:101:VAL:HG21	2.03	0.40
2:J:1250:ARG:H	2:J:1250:ARG:HD3	1.86	0.40
2:J:1299:VAL:HA	2:J:1300:PRO:HD3	1.80	0.40
2:J:1342:PHE:HE2	2:J:1391:VAL:CB	2.34	0.40
2:J:1350:ILE:HD13	2:J:1610:MET:SD	2.62	0.40
2:J:1645:PRO:O	2:J:1646:ASN:HB2	2.21	0.40
2:J:186:LEU:HD23	2:J:186:LEU:HA	1.82	0.40
2:J:1873:ARG:NH1	2:J:2002:ASP:CB	2.83	0.40
2:J:1880:ASN:HB3	2:J:1881:TYR:CE1	2.57	0.40
2:J:497:ASP:HA	2:J:498:PRO:HD3	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1265:TYR:CZ	2:K:1267:PRO:HG3	2.54	0.40
2:K:123:ALA:O	2:K:126:VAL:HG23	2.22	0.40
2:K:1470:LYS:HA	2:K:1470:LYS:HD3	1.90	0.40
2:K:1573:ALA:HA	2:K:1574:PRO:HD3	1.98	0.40
2:K:1733:SER:O	2:K:1737:ILE:HG13	2.22	0.40
2:K:314:LEU:HG	2:K:318:ILE:CD1	2.45	0.40
2:K:24:LEU:CD1	2:K:37:VAL:HG21	2.48	0.40
2:K:791:TYR:HD2	2:K:796:TRP:CG	2.40	0.40
2:K:955:LEU:HD21	2:K:1026:LYS:O	2.21	0.40
2:L:1171:TRP:CG	2:L:1172:ARG:N	2.89	0.40
2:L:1400:GLN:HE21	2:L:1400:GLN:N	2.20	0.40
2:L:1726:PHE:CE1	2:L:1857:VAL:HB	2.56	0.40
2:L:1933:LEU:HB3	2:L:1987:VAL:HB	2.03	0.40
2:L:2003:VAL:HA	2:L:2004:PRO:HD3	1.78	0.40
2:L:350:MET:HG3	2:L:435:ILE:CB	2.52	0.40
2:L:245:SER:HA	2:L:436:THR:OG1	2.22	0.40
2:L:521:VAL:O	2:L:521:VAL:HG12	2.21	0.40
2:L:815:ARG:NH2	2:L:1086:ILE:CG2	2.84	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:575:ARG:NH1	2:H:164:GLU:O[2_555]	2.01	0.19
1:B:1452:SER:O	2:G:1092:ASN:ND2[1_556]	2.18	0.02

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1451/1878 (77%)	1270 (88%)	164 (11%)	17 (1%)	15 51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	1458/1878 (78%)	1278 (88%)	160 (11%)	20 (1%)	13	47
1	C	1456/1878 (78%)	1283 (88%)	156 (11%)	17 (1%)	15	51
1	D	1461/1878 (78%)	1276 (87%)	161 (11%)	24 (2%)	11	43
1	E	1450/1878 (77%)	1276 (88%)	155 (11%)	19 (1%)	14	48
1	F	1455/1878 (78%)	1282 (88%)	153 (10%)	20 (1%)	13	47
2	G	2058/2060 (100%)	1789 (87%)	237 (12%)	32 (2%)	11	43
2	H	2058/2060 (100%)	1791 (87%)	230 (11%)	37 (2%)	10	40
2	I	2058/2060 (100%)	1787 (87%)	238 (12%)	33 (2%)	11	43
2	J	2058/2060 (100%)	1784 (87%)	240 (12%)	34 (2%)	11	42
2	K	2058/2060 (100%)	1785 (87%)	239 (12%)	34 (2%)	11	42
2	L	2058/2060 (100%)	1780 (86%)	241 (12%)	37 (2%)	10	40
All	All	21079/23628 (89%)	18381 (87%)	2374 (11%)	324 (2%)	12	45

All (324) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	614	PHE
1	A	1566	LYS
1	B	614	PHE
1	B	624	GLY
1	B	1566	LYS
1	C	614	PHE
1	C	624	GLY
1	C	1566	LYS
1	D	614	PHE
1	D	624	GLY
1	D	1566	LYS
1	E	614	PHE
1	E	624	GLY
1	E	1566	LYS
1	F	613	PRO
1	F	614	PHE
1	F	624	GLY
1	F	1566	LYS
2	G	780	SER
2	G	1986	PRO
2	G	2036	ILE
2	H	1986	PRO

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Mol	Chain	Res	Type
2	H	2036	ILE
2	I	780	SER
2	I	1986	PRO
2	I	2036	ILE
2	J	780	SER
2	J	1986	PRO
2	J	2036	ILE
2	K	499	VAL
2	K	780	SER
2	K	1986	PRO
2	K	2036	ILE
2	L	780	SER
2	L	1986	PRO
2	L	2036	ILE
1	A	624	GLY
1	A	809	GLY
1	B	609	VAL
1	B	809	GLY
1	B	1166	THR
1	B	1226	VAL
1	C	425	VAL
1	C	809	GLY
1	C	812	GLY
1	C	1166	THR
1	D	425	VAL
1	D	527	ALA
1	D	809	GLY
1	D	1226	VAL
1	E	425	VAL
1	E	809	GLY
1	F	809	GLY
1	F	1226	VAL
2	G	520	GLY
2	G	665	VAL
2	G	742	GLN
2	G	1987	VAL
2	H	499	VAL
2	H	520	GLY
2	H	665	VAL
2	H	780	SER
2	H	1987	VAL
2	I	520	GLY

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Mol	Chain	Res	Type
2	I	665	VAL
2	I	1987	VAL
2	J	520	GLY
2	J	665	VAL
2	J	742	GLN
2	J	1987	VAL
2	K	520	GLY
2	K	665	VAL
2	K	742	GLN
2	K	1987	VAL
2	L	499	VAL
2	L	520	GLY
2	L	665	VAL
2	L	742	GLN
2	L	1987	VAL
1	A	425	VAL
1	A	426	ASP
1	A	846	TRP
1	A	1226	VAL
1	B	425	VAL
1	B	426	ASP
1	B	812	GLY
1	C	82	CYS
1	C	426	ASP
1	C	1226	VAL
1	D	82	CYS
1	D	426	ASP
1	D	526	MET
1	D	812	GLY
1	D	1166	THR
1	E	426	ASP
1	E	1166	THR
1	F	425	VAL
1	F	426	ASP
2	G	111	ARG
2	G	499	VAL
2	G	989	PRO
2	G	1212	PRO
2	G	1363	PRO
2	G	1891	ILE
2	H	111	ARG
2	H	742	GLN

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Mol	Chain	Res	Type
2	H	989	PRO
2	H	1212	PRO
2	H	1363	PRO
2	H	1961	SER
2	H	2012	SER
2	I	111	ARG
2	I	499	VAL
2	I	742	GLN
2	I	989	PRO
2	I	1212	PRO
2	I	1363	PRO
2	I	1891	ILE
2	J	111	ARG
2	J	499	VAL
2	J	989	PRO
2	J	1212	PRO
2	J	1363	PRO
2	J	1891	ILE
2	K	111	ARG
2	K	753	SER
2	K	989	PRO
2	K	1212	PRO
2	K	1363	PRO
2	K	1891	ILE
2	K	2012	SER
2	L	111	ARG
2	L	753	SER
2	L	989	PRO
2	L	1212	PRO
2	L	1363	PRO
2	L	1891	ILE
1	A	82	CYS
1	A	812	GLY
1	A	850	THR
1	A	1593	ASP
1	B	82	CYS
1	B	557	ARG
1	B	846	TRP
1	B	850	THR
1	B	1593	ASP
1	C	66	GLU
1	C	846	TRP

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Mol	Chain	Res	Type
1	D	66	GLU
1	D	546	ARG
1	D	582	SER
1	D	846	TRP
1	D	1468	ARG
1	E	66	GLU
1	E	82	CYS
1	E	812	GLY
1	E	846	TRP
1	E	1226	VAL
1	E	1593	ASP
1	F	82	CYS
1	F	812	GLY
1	F	846	TRP
1	F	1593	ASP
2	G	609	THR
2	G	1923	ALA
2	G	2076	LYS
2	H	609	THR
2	H	753	SER
2	H	1739	LYS
2	H	1891	ILE
2	I	753	SER
2	I	841	ASP
2	I	1961	SER
2	I	2012	SER
2	J	609	THR
2	J	841	ASP
2	J	2012	SER
2	K	609	THR
2	K	1279	GLU
2	L	609	THR
2	L	1739	LYS
2	L	1961	SER
2	L	2012	SER
1	A	66	GLU
1	A	546	ARG
1	A	703	GLY
1	B	66	GLU
1	C	850	THR
1	C	1593	ASP
1	D	556	HIS

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Mol	Chain	Res	Type
1	D	850	THR
1	D	1593	ASP
1	E	850	THR
1	E	1468	ARG
1	F	66	GLU
1	F	535	TYR
1	F	703	GLY
1	F	850	THR
1	F	1166	THR
2	G	127	ALA
2	G	602	PRO
2	G	753	SER
2	G	841	ASP
2	G	2012	SER
2	H	127	ALA
2	H	602	PRO
2	H	841	ASP
2	H	1752	PRO
2	H	1923	ALA
2	H	2076	LYS
2	I	609	THR
2	I	1739	LYS
2	I	1752	PRO
2	I	1859	VAL
2	I	2076	LYS
2	J	915	PHE
2	J	1752	PRO
2	J	1859	VAL
2	J	1923	ALA
2	J	1961	SER
2	K	602	PRO
2	K	841	ASP
2	K	869	ALA
2	K	1114	GLU
2	K	1739	LYS
2	K	1752	PRO
2	K	2076	LYS
2	L	602	PRO
2	L	841	ASP
2	L	1859	VAL
2	L	1923	ALA
1	A	556	HIS

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Mol	Chain	Res	Type
1	A	1468	ARG
1	B	703	GLY
1	B	1468	ARG
1	C	1468	ARG
1	D	606	PRO
1	D	703	GLY
1	E	556	HIS
1	E	703	GLY
1	F	1468	ARG
2	G	1688	PRO
2	G	1859	VAL
2	H	653	PRO
2	H	1859	VAL
2	I	653	PRO
2	I	1923	ALA
2	J	602	PRO
2	J	753	SER
2	J	1114	GLU
2	J	2076	LYS
2	K	498	PRO
2	K	616	ASP
2	K	803	PRO
2	K	1961	SER
2	L	127	ALA
2	L	480	GLU
2	L	653	PRO
2	L	1267	PRO
2	L	1752	PRO
1	D	1524	GLY
2	G	803	PRO
2	H	1258	PRO
2	H	1267	PRO
2	I	602	PRO
2	I	1632	VAL
2	J	519	GLY
2	J	653	PRO
2	J	1632	VAL
2	K	653	PRO
2	K	1267	PRO
2	L	803	PRO
2	L	1258	PRO
1	B	1524	GLY

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Mol	Chain	Res	Type
1	C	1524	GLY
1	F	1064	VAL
1	F	1524	GLY
2	G	498	PRO
2	G	1258	PRO
2	G	1267	PRO
2	G	1632	VAL
2	G	1752	PRO
2	H	57	PRO
2	H	498	PRO
2	H	803	PRO
2	H	1688	PRO
2	I	1316	VAL
2	J	1258	PRO
2	J	1267	PRO
2	K	57	PRO
2	L	498	PRO
1	D	1064	VAL
1	E	1524	GLY
2	G	57	PRO
2	G	653	PRO
2	H	1750	GLY
2	I	57	PRO
2	I	1258	PRO
2	I	1267	PRO
2	J	57	PRO
2	K	250	PHE
2	K	1258	PRO
2	L	57	PRO
2	L	1632	VAL
2	L	1750	GLY
2	L	2047	PRO
1	B	1064	VAL
1	C	1064	VAL
1	E	1064	VAL
2	G	250	PHE
2	H	1632	VAL
2	H	2047	PRO
2	I	153	PRO
2	I	498	PRO
2	I	2047	PRO
2	J	153	PRO

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Mol	Chain	Res	Type
2	J	498	PRO
2	J	803	PRO
2	K	153	PRO
2	L	153	PRO
2	L	250	PHE
2	L	521	VAL
2	H	153	PRO
2	H	250	PHE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1220/1527 (80%)	1107 (91%)	113 (9%)	10	38
1	B	1227/1527 (80%)	1117 (91%)	110 (9%)	11	40
1	C	1225/1527 (80%)	1110 (91%)	115 (9%)	10	38
1	D	1229/1527 (80%)	1107 (90%)	122 (10%)	9	34
1	E	1219/1527 (80%)	1106 (91%)	113 (9%)	10	38
1	F	1224/1527 (80%)	1111 (91%)	113 (9%)	11	39
2	G	1752/1752 (100%)	1569 (90%)	183 (10%)	8	31
2	H	1752/1752 (100%)	1569 (90%)	183 (10%)	8	31
2	I	1752/1752 (100%)	1565 (89%)	187 (11%)	8	30
2	J	1752/1752 (100%)	1567 (89%)	185 (11%)	8	30
2	K	1752/1752 (100%)	1566 (89%)	186 (11%)	8	30
2	L	1752/1752 (100%)	1563 (89%)	189 (11%)	7	30
All	All	17856/19674 (91%)	16057 (90%)	1799 (10%)	9	33

All (1799) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	12	THR

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Mol	Chain	Res	Type
1	A	21	GLN
1	A	27	ARG
1	A	60	THR
1	A	61	LEU
1	A	352	ARG
1	A	358	PHE
1	A	361	SER
1	A	365	GLN
1	A	368	LEU
1	A	397	ARG
1	A	400	ASP
1	A	409	ASP
1	A	424	VAL
1	A	427	ARG
1	A	439	ARG
1	A	441	ASN
1	A	443	LEU
1	A	444	LEU
1	A	448	MET
1	A	486	VAL
1	A	492	ILE
1	A	513	ARG
1	A	547	SER
1	A	552	ILE
1	A	557	ARG
1	A	561	SER
1	A	562	SER
1	A	564	LEU
1	A	570	TYR
1	A	575	ARG
1	A	628	TYR
1	A	684	THR
1	A	687	PHE
1	A	696	GLN
1	A	709	LEU
1	A	725	LEU
1	A	736	LEU
1	A	754	ARG
1	A	770	MET
1	A	772	THR
1	A	783	THR
1	A	793	ARG

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Mol	Chain	Res	Type
1	A	813	LEU
1	A	815	SER
1	A	817	SER
1	A	837	LEU
1	A	843	VAL
1	A	850	THR
1	A	854	SER
1	A	869	ARG
1	A	883	LEU
1	A	911	LEU
1	A	919	ARG
1	A	946	GLU
1	A	980	LEU
1	A	984	LEU
1	A	988	VAL
1	A	995	VAL
1	A	999	LEU
1	A	1017	TYR
1	A	1022	LEU
1	A	1039	ASN
1	A	1042	LEU
1	A	1079	ARG
1	A	1093	ARG
1	A	1106	LEU
1	A	1107	GLU
1	A	1157	ASP
1	A	1158	ARG
1	A	1186	VAL
1	A	1226	VAL
1	A	1232	LEU
1	A	1249	ILE
1	A	1258	MET
1	A	1267	LEU
1	A	1273	ILE
1	A	1288	ASP
1	A	1308	ASP
1	A	1313	GLU
1	A	1317	GLU
1	A	1324	THR
1	A	1342	ARG
1	A	1344	THR
1	A	1347	THR

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Mol	Chain	Res	Type
1	A	1360	GLN
1	A	1361	VAL
1	A	1366	GLN
1	A	1367	LEU
1	A	1386	THR
1	A	1401	LEU
1	A	1418	ILE
1	A	1422	ARG
1	A	1457	GLU
1	A	1491	ASN
1	A	1504	ARG
1	A	1509	THR
1	A	1514	ILE
1	A	1538	ILE
1	A	1545	LEU
1	A	1553	VAL
1	A	1561	LEU
1	A	1564	HIS
1	A	1593	ASP
1	A	1603	ASP
1	A	1606	VAL
1	A	1617	ILE
1	A	1623	THR
1	A	1662	GLN
1	A	1673	LEU
1	A	1702	ARG
1	A	1707	SER
1	B	1	MET
1	B	12	THR
1	B	21	GLN
1	B	27	ARG
1	B	60	THR
1	B	61	LEU
1	B	352	ARG
1	B	361	SER
1	B	365	GLN
1	B	368	LEU
1	B	397	ARG
1	B	400	ASP
1	B	409	ASP
1	B	414	TYR
1	B	424	VAL

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Mol	Chain	Res	Type
1	B	427	ARG
1	B	439	ARG
1	B	441	ASN
1	B	443	LEU
1	B	444	LEU
1	B	448	MET
1	B	486	VAL
1	B	492	ILE
1	B	513	ARG
1	B	547	SER
1	B	551	LEU
1	B	557	ARG
1	B	567	ASN
1	B	574	ILE
1	B	628	TYR
1	B	684	THR
1	B	687	PHE
1	B	696	GLN
1	B	709	LEU
1	B	725	LEU
1	B	736	LEU
1	B	754	ARG
1	B	770	MET
1	B	772	THR
1	B	783	THR
1	B	793	ARG
1	B	813	LEU
1	B	815	SER
1	B	817	SER
1	B	837	LEU
1	B	843	VAL
1	B	850	THR
1	B	854	SER
1	B	869	ARG
1	B	883	LEU
1	B	911	LEU
1	B	919	ARG
1	B	980	LEU
1	B	984	LEU
1	B	988	VAL
1	B	995	VAL
1	B	999	LEU

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Mol	Chain	Res	Type
1	B	1017	TYR
1	B	1022	LEU
1	B	1039	ASN
1	B	1042	LEU
1	B	1079	ARG
1	B	1093	ARG
1	B	1106	LEU
1	B	1107	GLU
1	B	1157	ASP
1	B	1158	ARG
1	B	1226	VAL
1	B	1232	LEU
1	B	1249	ILE
1	B	1258	MET
1	B	1267	LEU
1	B	1273	ILE
1	B	1288	ASP
1	B	1308	ASP
1	B	1313	GLU
1	B	1317	GLU
1	B	1342	ARG
1	B	1344	THR
1	B	1347	THR
1	B	1353	GLU
1	B	1360	GLN
1	B	1361	VAL
1	B	1366	GLN
1	B	1367	LEU
1	B	1386	THR
1	B	1401	LEU
1	B	1418	ILE
1	B	1422	ARG
1	B	1457	GLU
1	B	1464	THR
1	B	1482	GLU
1	B	1491	ASN
1	B	1504	ARG
1	B	1509	THR
1	B	1514	ILE
1	B	1538	ILE
1	B	1545	LEU
1	B	1553	VAL

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Mol	Chain	Res	Type
1	B	1561	LEU
1	B	1564	HIS
1	B	1593	ASP
1	B	1603	ASP
1	B	1606	VAL
1	B	1617	ILE
1	B	1623	THR
1	B	1662	GLN
1	B	1673	LEU
1	B	1702	ARG
1	B	1707	SER
1	C	1	MET
1	C	12	THR
1	C	21	GLN
1	C	27	ARG
1	C	60	THR
1	C	61	LEU
1	C	352	ARG
1	C	358	PHE
1	C	361	SER
1	C	365	GLN
1	C	368	LEU
1	C	397	ARG
1	C	400	ASP
1	C	409	ASP
1	C	414	TYR
1	C	424	VAL
1	C	427	ARG
1	C	439	ARG
1	C	441	ASN
1	C	443	LEU
1	C	444	LEU
1	C	448	MET
1	C	465	LEU
1	C	486	VAL
1	C	492	ILE
1	C	513	ARG
1	C	536	SER
1	C	547	SER
1	C	551	LEU
1	C	557	ARG
1	C	567	ASN

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Mol	Chain	Res	Type
1	C	574	ILE
1	C	628	TYR
1	C	684	THR
1	C	687	PHE
1	C	696	GLN
1	C	709	LEU
1	C	725	LEU
1	C	736	LEU
1	C	754	ARG
1	C	770	MET
1	C	772	THR
1	C	783	THR
1	C	793	ARG
1	C	813	LEU
1	C	815	SER
1	C	817	SER
1	C	837	LEU
1	C	843	VAL
1	C	850	THR
1	C	854	SER
1	C	869	ARG
1	C	883	LEU
1	C	909	PRO
1	C	911	LEU
1	C	919	ARG
1	C	946	GLU
1	C	980	LEU
1	C	984	LEU
1	C	988	VAL
1	C	995	VAL
1	C	999	LEU
1	C	1017	TYR
1	C	1022	LEU
1	C	1039	ASN
1	C	1042	LEU
1	C	1061	ASP
1	C	1079	ARG
1	C	1093	ARG
1	C	1106	LEU
1	C	1107	GLU
1	C	1157	ASP
1	C	1158	ARG

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Mol	Chain	Res	Type
1	C	1183	VAL
1	C	1226	VAL
1	C	1232	LEU
1	C	1249	ILE
1	C	1258	MET
1	C	1267	LEU
1	C	1273	ILE
1	C	1288	ASP
1	C	1313	GLU
1	C	1317	GLU
1	C	1342	ARG
1	C	1344	THR
1	C	1347	THR
1	C	1360	GLN
1	C	1361	VAL
1	C	1366	GLN
1	C	1367	LEU
1	C	1386	THR
1	C	1401	LEU
1	C	1418	ILE
1	C	1422	ARG
1	C	1457	GLU
1	C	1464	THR
1	C	1482	GLU
1	C	1491	ASN
1	C	1504	ARG
1	C	1509	THR
1	C	1514	ILE
1	C	1538	ILE
1	C	1545	LEU
1	C	1553	VAL
1	C	1561	LEU
1	C	1589	ASN
1	C	1593	ASP
1	C	1603	ASP
1	C	1606	VAL
1	C	1617	ILE
1	C	1623	THR
1	C	1662	GLN
1	C	1673	LEU
1	C	1702	ARG
1	C	1707	SER

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Mol	Chain	Res	Type
1	D	1	MET
1	D	12	THR
1	D	21	GLN
1	D	27	ARG
1	D	60	THR
1	D	61	LEU
1	D	352	ARG
1	D	358	PHE
1	D	361	SER
1	D	365	GLN
1	D	368	LEU
1	D	397	ARG
1	D	400	ASP
1	D	409	ASP
1	D	414	TYR
1	D	424	VAL
1	D	427	ARG
1	D	439	ARG
1	D	441	ASN
1	D	443	LEU
1	D	444	LEU
1	D	448	MET
1	D	465	LEU
1	D	486	VAL
1	D	492	ILE
1	D	513	ARG
1	D	547	SER
1	D	552	ILE
1	D	557	ARG
1	D	561	SER
1	D	562	SER
1	D	564	LEU
1	D	570	TYR
1	D	575	ARG
1	D	579	MET
1	D	581	GLU
1	D	582	SER
1	D	584	ILE
1	D	628	TYR
1	D	684	THR
1	D	687	PHE
1	D	696	GLN

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Mol	Chain	Res	Type
1	D	709	LEU
1	D	725	LEU
1	D	736	LEU
1	D	754	ARG
1	D	770	MET
1	D	772	THR
1	D	783	THR
1	D	793	ARG
1	D	813	LEU
1	D	815	SER
1	D	817	SER
1	D	837	LEU
1	D	843	VAL
1	D	850	THR
1	D	854	SER
1	D	869	ARG
1	D	883	LEU
1	D	911	LEU
1	D	919	ARG
1	D	946	GLU
1	D	980	LEU
1	D	984	LEU
1	D	988	VAL
1	D	995	VAL
1	D	999	LEU
1	D	1022	LEU
1	D	1039	ASN
1	D	1042	LEU
1	D	1061	ASP
1	D	1079	ARG
1	D	1093	ARG
1	D	1106	LEU
1	D	1107	GLU
1	D	1157	ASP
1	D	1158	ARG
1	D	1226	VAL
1	D	1229	THR
1	D	1232	LEU
1	D	1249	ILE
1	D	1258	MET
1	D	1267	LEU
1	D	1273	ILE

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Mol	Chain	Res	Type
1	D	1288	ASP
1	D	1313	GLU
1	D	1317	GLU
1	D	1342	ARG
1	D	1344	THR
1	D	1347	THR
1	D	1360	GLN
1	D	1361	VAL
1	D	1366	GLN
1	D	1367	LEU
1	D	1386	THR
1	D	1387	ASP
1	D	1401	LEU
1	D	1418	ILE
1	D	1422	ARG
1	D	1441	LEU
1	D	1457	GLU
1	D	1464	THR
1	D	1482	GLU
1	D	1491	ASN
1	D	1504	ARG
1	D	1509	THR
1	D	1514	ILE
1	D	1538	ILE
1	D	1545	LEU
1	D	1553	VAL
1	D	1561	LEU
1	D	1564	HIS
1	D	1589	ASN
1	D	1593	ASP
1	D	1603	ASP
1	D	1606	VAL
1	D	1617	ILE
1	D	1623	THR
1	D	1646	LEU
1	D	1662	GLN
1	D	1673	LEU
1	D	1702	ARG
1	E	1	MET
1	E	12	THR
1	E	21	GLN
1	E	27	ARG

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Mol	Chain	Res	Type
1	E	60	THR
1	E	61	LEU
1	E	352	ARG
1	E	358	PHE
1	E	361	SER
1	E	365	GLN
1	E	368	LEU
1	E	397	ARG
1	E	400	ASP
1	E	409	ASP
1	E	414	TYR
1	E	424	VAL
1	E	427	ARG
1	E	439	ARG
1	E	441	ASN
1	E	443	LEU
1	E	444	LEU
1	E	448	MET
1	E	486	VAL
1	E	492	ILE
1	E	513	ARG
1	E	547	SER
1	E	552	ILE
1	E	557	ARG
1	E	562	SER
1	E	564	LEU
1	E	570	TYR
1	E	628	TYR
1	E	684	THR
1	E	687	PHE
1	E	696	GLN
1	E	709	LEU
1	E	713	PRO
1	E	725	LEU
1	E	736	LEU
1	E	754	ARG
1	E	770	MET
1	E	772	THR
1	E	783	THR
1	E	793	ARG
1	E	813	LEU
1	E	815	SER

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Mol	Chain	Res	Type
1	E	817	SER
1	E	837	LEU
1	E	843	VAL
1	E	850	THR
1	E	869	ARG
1	E	883	LEU
1	E	911	LEU
1	E	919	ARG
1	E	946	GLU
1	E	980	LEU
1	E	984	LEU
1	E	988	VAL
1	E	995	VAL
1	E	999	LEU
1	E	1022	LEU
1	E	1039	ASN
1	E	1042	LEU
1	E	1061	ASP
1	E	1079	ARG
1	E	1093	ARG
1	E	1106	LEU
1	E	1107	GLU
1	E	1157	ASP
1	E	1158	ARG
1	E	1186	VAL
1	E	1226	VAL
1	E	1232	LEU
1	E	1249	ILE
1	E	1258	MET
1	E	1267	LEU
1	E	1273	ILE
1	E	1288	ASP
1	E	1313	GLU
1	E	1317	GLU
1	E	1324	THR
1	E	1342	ARG
1	E	1344	THR
1	E	1347	THR
1	E	1360	GLN
1	E	1361	VAL
1	E	1366	GLN
1	E	1367	LEU

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Mol	Chain	Res	Type
1	E	1386	THR
1	E	1401	LEU
1	E	1418	ILE
1	E	1422	ARG
1	E	1457	GLU
1	E	1464	THR
1	E	1482	GLU
1	E	1491	ASN
1	E	1504	ARG
1	E	1509	THR
1	E	1514	ILE
1	E	1538	ILE
1	E	1545	LEU
1	E	1553	VAL
1	E	1561	LEU
1	E	1564	HIS
1	E	1593	ASP
1	E	1603	ASP
1	E	1606	VAL
1	E	1617	ILE
1	E	1623	THR
1	E	1662	GLN
1	E	1673	LEU
1	E	1702	ARG
1	E	1708	ASN
1	F	1	MET
1	F	12	THR
1	F	21	GLN
1	F	27	ARG
1	F	60	THR
1	F	61	LEU
1	F	352	ARG
1	F	361	SER
1	F	365	GLN
1	F	368	LEU
1	F	397	ARG
1	F	400	ASP
1	F	409	ASP
1	F	414	TYR
1	F	424	VAL
1	F	427	ARG
1	F	441	ASN

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Mol	Chain	Res	Type
1	F	443	LEU
1	F	444	LEU
1	F	448	MET
1	F	492	ILE
1	F	513	ARG
1	F	533	SER
1	F	535	TYR
1	F	547	SER
1	F	551	LEU
1	F	557	ARG
1	F	567	ASN
1	F	574	ILE
1	F	585	MET
1	F	612	ILE
1	F	613	PRO
1	F	628	TYR
1	F	684	THR
1	F	687	PHE
1	F	696	GLN
1	F	709	LEU
1	F	725	LEU
1	F	736	LEU
1	F	754	ARG
1	F	770	MET
1	F	772	THR
1	F	783	THR
1	F	793	ARG
1	F	813	LEU
1	F	815	SER
1	F	817	SER
1	F	837	LEU
1	F	843	VAL
1	F	850	THR
1	F	854	SER
1	F	869	ARG
1	F	883	LEU
1	F	911	LEU
1	F	919	ARG
1	F	980	LEU
1	F	984	LEU
1	F	988	VAL
1	F	995	VAL

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Mol	Chain	Res	Type
1	F	999	LEU
1	F	1022	LEU
1	F	1039	ASN
1	F	1042	LEU
1	F	1061	ASP
1	F	1079	ARG
1	F	1093	ARG
1	F	1106	LEU
1	F	1107	GLU
1	F	1157	ASP
1	F	1158	ARG
1	F	1226	VAL
1	F	1232	LEU
1	F	1249	ILE
1	F	1258	MET
1	F	1267	LEU
1	F	1273	ILE
1	F	1288	ASP
1	F	1308	ASP
1	F	1313	GLU
1	F	1317	GLU
1	F	1342	ARG
1	F	1344	THR
1	F	1347	THR
1	F	1353	GLU
1	F	1360	GLN
1	F	1361	VAL
1	F	1366	GLN
1	F	1367	LEU
1	F	1386	THR
1	F	1401	LEU
1	F	1418	ILE
1	F	1422	ARG
1	F	1441	LEU
1	F	1457	GLU
1	F	1491	ASN
1	F	1504	ARG
1	F	1509	THR
1	F	1514	ILE
1	F	1538	ILE
1	F	1545	LEU
1	F	1553	VAL

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Mol	Chain	Res	Type
1	F	1561	LEU
1	F	1564	HIS
1	F	1565	PRO
1	F	1593	ASP
1	F	1603	ASP
1	F	1606	VAL
1	F	1617	ILE
1	F	1623	THR
1	F	1662	GLN
1	F	1673	LEU
1	F	1702	ARG
1	F	1707	SER
2	G	30	SER
2	G	31	LEU
2	G	37	VAL
2	G	62	GLU
2	G	63	LEU
2	G	126	VAL
2	G	134	ILE
2	G	155	ASP
2	G	158	LEU
2	G	167	VAL
2	G	216	ASP
2	G	218	VAL
2	G	252	LEU
2	G	262	MET
2	G	276	LEU
2	G	295	ILE
2	G	300	THR
2	G	302	ASP
2	G	317	TRP
2	G	329	THR
2	G	339	SER
2	G	346	THR
2	G	351	LEU
2	G	356	LEU
2	G	375	ASP
2	G	382	LEU
2	G	387	ARG
2	G	388	ASN
2	G	401	LEU
2	G	436	THR

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Mol	Chain	Res	Type
2	G	464	SER
2	G	472	THR
2	G	474	THR
2	G	477	ASP
2	G	484	GLU
2	G	486	ILE
2	G	489	GLU
2	G	549	ASN
2	G	570	VAL
2	G	583	THR
2	G	600	VAL
2	G	604	MET
2	G	609	THR
2	G	616	ASP
2	G	618	VAL
2	G	652	ILE
2	G	663	ILE
2	G	670	MET
2	G	690	LEU
2	G	709	LEU
2	G	726	GLN
2	G	727	VAL
2	G	747	ARG
2	G	757	PHE
2	G	763	LEU
2	G	786	GLU
2	G	814	SER
2	G	818	THR
2	G	820	LYS
2	G	827	GLN
2	G	843	TRP
2	G	846	THR
2	G	855	ILE
2	G	856	THR
2	G	870	THR
2	G	876	TRP
2	G	878	GLU
2	G	883	ILE
2	G	900	ASP
2	G	903	ILE
2	G	906	LEU
2	G	909	ASP

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Mol	Chain	Res	Type
2	G	917	ARG
2	G	918	ASN
2	G	924	VAL
2	G	935	VAL
2	G	944	VAL
2	G	964	ARG
2	G	971	THR
2	G	979	LEU
2	G	995	ARG
2	G	1004	SER
2	G	1007	LEU
2	G	1008	ILE
2	G	1009	ASN
2	G	1036	GLU
2	G	1047	LEU
2	G	1050	SER
2	G	1063	ARG
2	G	1065	CYS
2	G	1071	VAL
2	G	1079	ILE
2	G	1083	ILE
2	G	1086	ILE
2	G	1104	ASP
2	G	1171	TRP
2	G	1180	VAL
2	G	1186	ARG
2	G	1194	ARG
2	G	1200	ARG
2	G	1207	THR
2	G	1217	ILE
2	G	1225	SER
2	G	1234	ILE
2	G	1235	LYS
2	G	1246	LEU
2	G	1250	ARG
2	G	1259	LEU
2	G	1265	TYR
2	G	1266	HIS
2	G	1294	PHE
2	G	1299	VAL
2	G	1302	ASP
2	G	1305	LEU

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Mol	Chain	Res	Type
2	G	1309	PHE
2	G	1313	ARG
2	G	1338	ARG
2	G	1351	VAL
2	G	1373	LEU
2	G	1383	VAL
2	G	1391	VAL
2	G	1400	GLN
2	G	1405	ILE
2	G	1409	SER
2	G	1421	ARG
2	G	1424	LYS
2	G	1431	SER
2	G	1436	ARG
2	G	1444	ASN
2	G	1462	GLN
2	G	1467	LEU
2	G	1483	LEU
2	G	1484	LEU
2	G	1487	THR
2	G	1496	VAL
2	G	1523	ILE
2	G	1541	ILE
2	G	1563	LEU
2	G	1564	SER
2	G	1590	ILE
2	G	1593	SER
2	G	1594	ARG
2	G	1595	VAL
2	G	1602	LEU
2	G	1622	THR
2	G	1628	ASN
2	G	1639	MET
2	G	1643	VAL
2	G	1655	HIS
2	G	1674	THR
2	G	1690	THR
2	G	1707	ASP
2	G	1708	LEU
2	G	1709	TYR
2	G	1717	GLU
2	G	1740	ASN

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Mol	Chain	Res	Type
2	G	1745	LEU
2	G	1746	THR
2	G	1789	THR
2	G	1803	THR
2	G	1804	GLN
2	G	1812	LEU
2	G	1813	MET
2	G	1823	SER
2	G	1851	MET
2	G	1866	THR
2	G	1873	ARG
2	G	1896	THR
2	G	1900	LEU
2	G	1951	ILE
2	G	1965	VAL
2	G	1972	ILE
2	G	1977	ARG
2	G	1985	GLN
2	G	2008	THR
2	G	2009	PHE
2	G	2036	ILE
2	G	2039	TYR
2	G	2049	GLU
2	G	2052	LYS
2	G	2062	THR
2	G	2064	SER
2	G	2067	ILE
2	H	31	LEU
2	H	37	VAL
2	H	48	LEU
2	H	62	GLU
2	H	63	LEU
2	H	126	VAL
2	H	134	ILE
2	H	155	ASP
2	H	158	LEU
2	H	216	ASP
2	H	218	VAL
2	H	252	LEU
2	H	262	MET
2	H	276	LEU
2	H	289	ILE

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Mol	Chain	Res	Type
2	H	295	ILE
2	H	300	THR
2	H	302	ASP
2	H	317	TRP
2	H	329	THR
2	H	334	SER
2	H	339	SER
2	H	346	THR
2	H	351	LEU
2	H	356	LEU
2	H	375	ASP
2	H	382	LEU
2	H	387	ARG
2	H	388	ASN
2	H	401	LEU
2	H	436	THR
2	H	464	SER
2	H	472	THR
2	H	474	THR
2	H	477	ASP
2	H	484	GLU
2	H	486	ILE
2	H	489	GLU
2	H	549	ASN
2	H	570	VAL
2	H	583	THR
2	H	600	VAL
2	H	604	MET
2	H	609	THR
2	H	616	ASP
2	H	618	VAL
2	H	652	ILE
2	H	663	ILE
2	H	670	MET
2	H	690	LEU
2	H	709	LEU
2	H	726	GLN
2	H	727	VAL
2	H	747	ARG
2	H	757	PHE
2	H	763	LEU
2	H	780	SER

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Mol	Chain	Res	Type
2	H	814	SER
2	H	818	THR
2	H	820	LYS
2	H	827	GLN
2	H	843	TRP
2	H	846	THR
2	H	855	ILE
2	H	856	THR
2	H	870	THR
2	H	876	TRP
2	H	878	GLU
2	H	883	ILE
2	H	900	ASP
2	H	903	ILE
2	H	906	LEU
2	H	909	ASP
2	H	917	ARG
2	H	918	ASN
2	H	924	VAL
2	H	935	VAL
2	H	944	VAL
2	H	964	ARG
2	H	971	THR
2	H	979	LEU
2	H	984	SER
2	H	995	ARG
2	H	1004	SER
2	H	1007	LEU
2	H	1008	ILE
2	H	1009	ASN
2	H	1036	GLU
2	H	1047	LEU
2	H	1063	ARG
2	H	1065	CYS
2	H	1071	VAL
2	H	1079	ILE
2	H	1083	ILE
2	H	1086	ILE
2	H	1104	ASP
2	H	1171	TRP
2	H	1180	VAL
2	H	1186	ARG

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Mol	Chain	Res	Type
2	H	1194	ARG
2	H	1200	ARG
2	H	1207	THR
2	H	1217	ILE
2	H	1225	SER
2	H	1234	ILE
2	H	1235	LYS
2	H	1246	LEU
2	H	1250	ARG
2	H	1259	LEU
2	H	1265	TYR
2	H	1266	HIS
2	H	1294	PHE
2	H	1299	VAL
2	H	1302	ASP
2	H	1305	LEU
2	H	1309	PHE
2	H	1313	ARG
2	H	1338	ARG
2	H	1351	VAL
2	H	1373	LEU
2	H	1383	VAL
2	H	1391	VAL
2	H	1400	GLN
2	H	1405	ILE
2	H	1409	SER
2	H	1421	ARG
2	H	1424	LYS
2	H	1431	SER
2	H	1436	ARG
2	H	1444	ASN
2	H	1462	GLN
2	H	1467	LEU
2	H	1483	LEU
2	H	1484	LEU
2	H	1487	THR
2	H	1496	VAL
2	H	1523	ILE
2	H	1563	LEU
2	H	1564	SER
2	H	1583	VAL
2	H	1590	ILE

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Mol	Chain	Res	Type
2	H	1593	SER
2	H	1594	ARG
2	H	1595	VAL
2	H	1602	LEU
2	H	1622	THR
2	H	1628	ASN
2	H	1639	MET
2	H	1643	VAL
2	H	1655	HIS
2	H	1674	THR
2	H	1690	THR
2	H	1707	ASP
2	H	1708	LEU
2	H	1709	TYR
2	H	1717	GLU
2	H	1740	ASN
2	H	1745	LEU
2	H	1746	THR
2	H	1789	THR
2	H	1792	THR
2	H	1804	GLN
2	H	1812	LEU
2	H	1813	MET
2	H	1823	SER
2	H	1866	THR
2	H	1873	ARG
2	H	1896	THR
2	H	1900	LEU
2	H	1951	ILE
2	H	1965	VAL
2	H	1972	ILE
2	H	1977	ARG
2	H	1985	GLN
2	H	2008	THR
2	H	2009	PHE
2	H	2036	ILE
2	H	2039	TYR
2	H	2049	GLU
2	H	2052	LYS
2	H	2062	THR
2	H	2064	SER
2	H	2067	ILE

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Mol	Chain	Res	Type
2	I	31	LEU
2	I	37	VAL
2	I	48	LEU
2	I	62	GLU
2	I	63	LEU
2	I	126	VAL
2	I	134	ILE
2	I	155	ASP
2	I	158	LEU
2	I	167	VAL
2	I	195	SER
2	I	218	VAL
2	I	252	LEU
2	I	262	MET
2	I	276	LEU
2	I	295	ILE
2	I	300	THR
2	I	302	ASP
2	I	317	TRP
2	I	329	THR
2	I	339	SER
2	I	346	THR
2	I	351	LEU
2	I	356	LEU
2	I	375	ASP
2	I	382	LEU
2	I	387	ARG
2	I	388	ASN
2	I	401	LEU
2	I	436	THR
2	I	464	SER
2	I	472	THR
2	I	474	THR
2	I	477	ASP
2	I	484	GLU
2	I	486	ILE
2	I	489	GLU
2	I	549	ASN
2	I	570	VAL
2	I	583	THR
2	I	600	VAL
2	I	604	MET

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Mol	Chain	Res	Type
2	I	609	THR
2	I	616	ASP
2	I	618	VAL
2	I	652	ILE
2	I	663	ILE
2	I	670	MET
2	I	690	LEU
2	I	709	LEU
2	I	726	GLN
2	I	727	VAL
2	I	747	ARG
2	I	757	PHE
2	I	763	LEU
2	I	814	SER
2	I	818	THR
2	I	820	LYS
2	I	827	GLN
2	I	843	TRP
2	I	846	THR
2	I	855	ILE
2	I	856	THR
2	I	857	VAL
2	I	870	THR
2	I	876	TRP
2	I	878	GLU
2	I	883	ILE
2	I	900	ASP
2	I	903	ILE
2	I	906	LEU
2	I	909	ASP
2	I	917	ARG
2	I	918	ASN
2	I	924	VAL
2	I	935	VAL
2	I	944	VAL
2	I	964	ARG
2	I	971	THR
2	I	979	LEU
2	I	995	ARG
2	I	1004	SER
2	I	1007	LEU
2	I	1008	ILE

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Mol	Chain	Res	Type
2	I	1009	ASN
2	I	1028	VAL
2	I	1036	GLU
2	I	1047	LEU
2	I	1050	SER
2	I	1053	ILE
2	I	1061	VAL
2	I	1063	ARG
2	I	1065	CYS
2	I	1071	VAL
2	I	1079	ILE
2	I	1083	ILE
2	I	1086	ILE
2	I	1104	ASP
2	I	1171	TRP
2	I	1180	VAL
2	I	1186	ARG
2	I	1194	ARG
2	I	1200	ARG
2	I	1207	THR
2	I	1217	ILE
2	I	1225	SER
2	I	1234	ILE
2	I	1235	LYS
2	I	1246	LEU
2	I	1250	ARG
2	I	1259	LEU
2	I	1265	TYR
2	I	1266	HIS
2	I	1290	TYR
2	I	1294	PHE
2	I	1299	VAL
2	I	1302	ASP
2	I	1305	LEU
2	I	1309	PHE
2	I	1313	ARG
2	I	1338	ARG
2	I	1351	VAL
2	I	1373	LEU
2	I	1383	VAL
2	I	1391	VAL
2	I	1400	GLN

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Mol	Chain	Res	Type
2	I	1405	ILE
2	I	1406	ASN
2	I	1409	SER
2	I	1421	ARG
2	I	1424	LYS
2	I	1431	SER
2	I	1444	ASN
2	I	1462	GLN
2	I	1467	LEU
2	I	1483	LEU
2	I	1484	LEU
2	I	1487	THR
2	I	1496	VAL
2	I	1505	SER
2	I	1523	ILE
2	I	1563	LEU
2	I	1564	SER
2	I	1590	ILE
2	I	1593	SER
2	I	1594	ARG
2	I	1595	VAL
2	I	1602	LEU
2	I	1622	THR
2	I	1628	ASN
2	I	1639	MET
2	I	1643	VAL
2	I	1655	HIS
2	I	1674	THR
2	I	1690	THR
2	I	1707	ASP
2	I	1708	LEU
2	I	1709	TYR
2	I	1717	GLU
2	I	1740	ASN
2	I	1745	LEU
2	I	1746	THR
2	I	1783	GLU
2	I	1789	THR
2	I	1792	THR
2	I	1803	THR
2	I	1804	GLN
2	I	1812	LEU

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Mol	Chain	Res	Type
2	I	1813	MET
2	I	1823	SER
2	I	1866	THR
2	I	1873	ARG
2	I	1896	THR
2	I	1900	LEU
2	I	1951	ILE
2	I	1965	VAL
2	I	1972	ILE
2	I	1977	ARG
2	I	1985	GLN
2	I	2009	PHE
2	I	2036	ILE
2	I	2039	TYR
2	I	2049	GLU
2	I	2052	LYS
2	I	2062	THR
2	I	2064	SER
2	I	2067	ILE
2	J	30	SER
2	J	31	LEU
2	J	37	VAL
2	J	48	LEU
2	J	62	GLU
2	J	63	LEU
2	J	126	VAL
2	J	134	ILE
2	J	155	ASP
2	J	158	LEU
2	J	167	VAL
2	J	218	VAL
2	J	252	LEU
2	J	262	MET
2	J	264	THR
2	J	276	LEU
2	J	295	ILE
2	J	300	THR
2	J	302	ASP
2	J	317	TRP
2	J	329	THR
2	J	339	SER
2	J	346	THR

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Mol	Chain	Res	Type
2	J	351	LEU
2	J	356	LEU
2	J	375	ASP
2	J	382	LEU
2	J	387	ARG
2	J	388	ASN
2	J	401	LEU
2	J	436	THR
2	J	464	SER
2	J	472	THR
2	J	474	THR
2	J	477	ASP
2	J	484	GLU
2	J	486	ILE
2	J	489	GLU
2	J	549	ASN
2	J	570	VAL
2	J	583	THR
2	J	600	VAL
2	J	604	MET
2	J	609	THR
2	J	616	ASP
2	J	618	VAL
2	J	652	ILE
2	J	663	ILE
2	J	670	MET
2	J	690	LEU
2	J	709	LEU
2	J	726	GLN
2	J	727	VAL
2	J	747	ARG
2	J	757	PHE
2	J	763	LEU
2	J	814	SER
2	J	818	THR
2	J	820	LYS
2	J	827	GLN
2	J	843	TRP
2	J	846	THR
2	J	855	ILE
2	J	856	THR
2	J	857	VAL

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Mol	Chain	Res	Type
2	J	870	THR
2	J	876	TRP
2	J	878	GLU
2	J	883	ILE
2	J	900	ASP
2	J	903	ILE
2	J	906	LEU
2	J	909	ASP
2	J	917	ARG
2	J	918	ASN
2	J	924	VAL
2	J	935	VAL
2	J	944	VAL
2	J	964	ARG
2	J	971	THR
2	J	979	LEU
2	J	995	ARG
2	J	1004	SER
2	J	1007	LEU
2	J	1008	ILE
2	J	1009	ASN
2	J	1036	GLU
2	J	1047	LEU
2	J	1061	VAL
2	J	1063	ARG
2	J	1065	CYS
2	J	1071	VAL
2	J	1079	ILE
2	J	1083	ILE
2	J	1086	ILE
2	J	1104	ASP
2	J	1171	TRP
2	J	1180	VAL
2	J	1186	ARG
2	J	1194	ARG
2	J	1200	ARG
2	J	1207	THR
2	J	1217	ILE
2	J	1225	SER
2	J	1234	ILE
2	J	1235	LYS
2	J	1246	LEU

Continued on next page...

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Mol	Chain	Res	Type
2	J	1250	ARG
2	J	1259	LEU
2	J	1265	TYR
2	J	1266	HIS
2	J	1290	TYR
2	J	1294	PHE
2	J	1299	VAL
2	J	1302	ASP
2	J	1305	LEU
2	J	1309	PHE
2	J	1313	ARG
2	J	1338	ARG
2	J	1351	VAL
2	J	1373	LEU
2	J	1383	VAL
2	J	1391	VAL
2	J	1400	GLN
2	J	1405	ILE
2	J	1421	ARG
2	J	1424	LYS
2	J	1431	SER
2	J	1436	ARG
2	J	1444	ASN
2	J	1462	GLN
2	J	1467	LEU
2	J	1483	LEU
2	J	1484	LEU
2	J	1487	THR
2	J	1496	VAL
2	J	1523	ILE
2	J	1563	LEU
2	J	1564	SER
2	J	1590	ILE
2	J	1593	SER
2	J	1594	ARG
2	J	1595	VAL
2	J	1602	LEU
2	J	1622	THR
2	J	1628	ASN
2	J	1639	MET
2	J	1643	VAL
2	J	1655	HIS

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Mol	Chain	Res	Type
2	J	1674	THR
2	J	1690	THR
2	J	1707	ASP
2	J	1708	LEU
2	J	1709	TYR
2	J	1717	GLU
2	J	1740	ASN
2	J	1745	LEU
2	J	1746	THR
2	J	1783	GLU
2	J	1789	THR
2	J	1792	THR
2	J	1803	THR
2	J	1804	GLN
2	J	1812	LEU
2	J	1813	MET
2	J	1823	SER
2	J	1851	MET
2	J	1866	THR
2	J	1873	ARG
2	J	1896	THR
2	J	1900	LEU
2	J	1919	ASN
2	J	1951	ILE
2	J	1965	VAL
2	J	1972	ILE
2	J	1977	ARG
2	J	1985	GLN
2	J	2009	PHE
2	J	2036	ILE
2	J	2039	TYR
2	J	2049	GLU
2	J	2052	LYS
2	J	2062	THR
2	J	2064	SER
2	J	2067	ILE
2	K	30	SER
2	K	31	LEU
2	K	37	VAL
2	K	48	LEU
2	K	62	GLU
2	K	63	LEU

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Mol	Chain	Res	Type
2	K	126	VAL
2	K	155	ASP
2	K	158	LEU
2	K	167	VAL
2	K	218	VAL
2	K	252	LEU
2	K	262	MET
2	K	276	LEU
2	K	289	ILE
2	K	295	ILE
2	K	300	THR
2	K	302	ASP
2	K	317	TRP
2	K	329	THR
2	K	339	SER
2	K	346	THR
2	K	351	LEU
2	K	356	LEU
2	K	375	ASP
2	K	382	LEU
2	K	387	ARG
2	K	388	ASN
2	K	401	LEU
2	K	436	THR
2	K	464	SER
2	K	472	THR
2	K	474	THR
2	K	477	ASP
2	K	479	ARG
2	K	484	GLU
2	K	486	ILE
2	K	489	GLU
2	K	549	ASN
2	K	570	VAL
2	K	583	THR
2	K	600	VAL
2	K	604	MET
2	K	609	THR
2	K	616	ASP
2	K	618	VAL
2	K	652	ILE
2	K	663	ILE

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Mol	Chain	Res	Type
2	K	670	MET
2	K	690	LEU
2	K	709	LEU
2	K	726	GLN
2	K	727	VAL
2	K	747	ARG
2	K	757	PHE
2	K	763	LEU
2	K	780	SER
2	K	786	GLU
2	K	814	SER
2	K	818	THR
2	K	820	LYS
2	K	827	GLN
2	K	843	TRP
2	K	846	THR
2	K	855	ILE
2	K	856	THR
2	K	870	THR
2	K	876	TRP
2	K	878	GLU
2	K	883	ILE
2	K	900	ASP
2	K	903	ILE
2	K	906	LEU
2	K	909	ASP
2	K	917	ARG
2	K	918	ASN
2	K	924	VAL
2	K	935	VAL
2	K	944	VAL
2	K	964	ARG
2	K	971	THR
2	K	979	LEU
2	K	995	ARG
2	K	1004	SER
2	K	1007	LEU
2	K	1008	ILE
2	K	1009	ASN
2	K	1036	GLU
2	K	1047	LEU
2	K	1050	SER

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Mol	Chain	Res	Type
2	K	1061	VAL
2	K	1065	CYS
2	K	1071	VAL
2	K	1079	ILE
2	K	1083	ILE
2	K	1086	ILE
2	K	1104	ASP
2	K	1171	TRP
2	K	1180	VAL
2	K	1186	ARG
2	K	1194	ARG
2	K	1200	ARG
2	K	1207	THR
2	K	1217	ILE
2	K	1225	SER
2	K	1234	ILE
2	K	1235	LYS
2	K	1246	LEU
2	K	1250	ARG
2	K	1259	LEU
2	K	1265	TYR
2	K	1266	HIS
2	K	1294	PHE
2	K	1299	VAL
2	K	1302	ASP
2	K	1305	LEU
2	K	1309	PHE
2	K	1313	ARG
2	K	1338	ARG
2	K	1351	VAL
2	K	1373	LEU
2	K	1383	VAL
2	K	1391	VAL
2	K	1400	GLN
2	K	1405	ILE
2	K	1409	SER
2	K	1421	ARG
2	K	1424	LYS
2	K	1431	SER
2	K	1436	ARG
2	K	1444	ASN
2	K	1462	GLN

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Mol	Chain	Res	Type
2	K	1467	LEU
2	K	1483	LEU
2	K	1484	LEU
2	K	1487	THR
2	K	1496	VAL
2	K	1523	ILE
2	K	1563	LEU
2	K	1564	SER
2	K	1583	VAL
2	K	1590	ILE
2	K	1593	SER
2	K	1594	ARG
2	K	1595	VAL
2	K	1602	LEU
2	K	1622	THR
2	K	1628	ASN
2	K	1639	MET
2	K	1643	VAL
2	K	1655	HIS
2	K	1674	THR
2	K	1690	THR
2	K	1707	ASP
2	K	1708	LEU
2	K	1709	TYR
2	K	1717	GLU
2	K	1740	ASN
2	K	1745	LEU
2	K	1746	THR
2	K	1789	THR
2	K	1792	THR
2	K	1803	THR
2	K	1804	GLN
2	K	1812	LEU
2	K	1813	MET
2	K	1823	SER
2	K	1851	MET
2	K	1866	THR
2	K	1873	ARG
2	K	1896	THR
2	K	1900	LEU
2	K	1919	ASN
2	K	1951	ILE

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Mol	Chain	Res	Type
2	K	1965	VAL
2	K	1972	ILE
2	K	1977	ARG
2	K	1985	GLN
2	K	2009	PHE
2	K	2036	ILE
2	K	2039	TYR
2	K	2049	GLU
2	K	2052	LYS
2	K	2062	THR
2	K	2064	SER
2	K	2067	ILE
2	L	31	LEU
2	L	37	VAL
2	L	48	LEU
2	L	62	GLU
2	L	63	LEU
2	L	126	VAL
2	L	134	ILE
2	L	155	ASP
2	L	158	LEU
2	L	171	SER
2	L	196	PHE
2	L	216	ASP
2	L	218	VAL
2	L	252	LEU
2	L	262	MET
2	L	276	LEU
2	L	289	ILE
2	L	295	ILE
2	L	300	THR
2	L	302	ASP
2	L	317	TRP
2	L	329	THR
2	L	339	SER
2	L	346	THR
2	L	351	LEU
2	L	356	LEU
2	L	375	ASP
2	L	381	SER
2	L	382	LEU
2	L	387	ARG

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Mol	Chain	Res	Type
2	L	388	ASN
2	L	401	LEU
2	L	436	THR
2	L	464	SER
2	L	474	THR
2	L	477	ASP
2	L	484	GLU
2	L	486	ILE
2	L	489	GLU
2	L	549	ASN
2	L	570	VAL
2	L	583	THR
2	L	600	VAL
2	L	604	MET
2	L	609	THR
2	L	616	ASP
2	L	618	VAL
2	L	652	ILE
2	L	663	ILE
2	L	670	MET
2	L	690	LEU
2	L	709	LEU
2	L	726	GLN
2	L	727	VAL
2	L	747	ARG
2	L	757	PHE
2	L	763	LEU
2	L	814	SER
2	L	818	THR
2	L	820	LYS
2	L	821	GLU
2	L	827	GLN
2	L	843	TRP
2	L	846	THR
2	L	855	ILE
2	L	856	THR
2	L	857	VAL
2	L	870	THR
2	L	876	TRP
2	L	878	GLU
2	L	883	ILE
2	L	900	ASP

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Mol	Chain	Res	Type
2	L	903	ILE
2	L	906	LEU
2	L	909	ASP
2	L	917	ARG
2	L	918	ASN
2	L	924	VAL
2	L	935	VAL
2	L	944	VAL
2	L	964	ARG
2	L	971	THR
2	L	979	LEU
2	L	995	ARG
2	L	1004	SER
2	L	1007	LEU
2	L	1008	ILE
2	L	1009	ASN
2	L	1028	VAL
2	L	1036	GLU
2	L	1047	LEU
2	L	1050	SER
2	L	1061	VAL
2	L	1063	ARG
2	L	1065	CYS
2	L	1071	VAL
2	L	1079	ILE
2	L	1083	ILE
2	L	1086	ILE
2	L	1104	ASP
2	L	1171	TRP
2	L	1180	VAL
2	L	1186	ARG
2	L	1194	ARG
2	L	1200	ARG
2	L	1207	THR
2	L	1217	ILE
2	L	1225	SER
2	L	1234	ILE
2	L	1235	LYS
2	L	1246	LEU
2	L	1250	ARG
2	L	1259	LEU
2	L	1265	TYR

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Mol	Chain	Res	Type
2	L	1266	HIS
2	L	1294	PHE
2	L	1299	VAL
2	L	1302	ASP
2	L	1305	LEU
2	L	1309	PHE
2	L	1313	ARG
2	L	1338	ARG
2	L	1351	VAL
2	L	1373	LEU
2	L	1383	VAL
2	L	1391	VAL
2	L	1400	GLN
2	L	1405	ILE
2	L	1409	SER
2	L	1421	ARG
2	L	1424	LYS
2	L	1431	SER
2	L	1436	ARG
2	L	1444	ASN
2	L	1462	GLN
2	L	1467	LEU
2	L	1483	LEU
2	L	1484	LEU
2	L	1487	THR
2	L	1496	VAL
2	L	1505	SER
2	L	1523	ILE
2	L	1563	LEU
2	L	1564	SER
2	L	1583	VAL
2	L	1590	ILE
2	L	1593	SER
2	L	1594	ARG
2	L	1595	VAL
2	L	1602	LEU
2	L	1622	THR
2	L	1628	ASN
2	L	1639	MET
2	L	1643	VAL
2	L	1655	HIS
2	L	1674	THR

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Mol	Chain	Res	Type
2	L	1690	THR
2	L	1707	ASP
2	L	1708	LEU
2	L	1709	TYR
2	L	1717	GLU
2	L	1740	ASN
2	L	1745	LEU
2	L	1746	THR
2	L	1783	GLU
2	L	1789	THR
2	L	1792	THR
2	L	1804	GLN
2	L	1812	LEU
2	L	1813	MET
2	L	1823	SER
2	L	1851	MET
2	L	1866	THR
2	L	1873	ARG
2	L	1896	THR
2	L	1900	LEU
2	L	1951	ILE
2	L	1965	VAL
2	L	1972	ILE
2	L	1977	ARG
2	L	1985	GLN
2	L	2009	PHE
2	L	2036	ILE
2	L	2039	TYR
2	L	2049	GLU
2	L	2052	LYS
2	L	2062	THR
2	L	2064	SER
2	L	2067	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (492) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	21	GLN
1	A	75	GLN
1	A	404	ASN
1	A	408	GLN
1	A	454	HIS

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Mol	Chain	Res	Type
1	A	472	GLN
1	A	525	GLN
1	A	542	GLN
1	A	565	GLN
1	A	671	GLN
1	A	715	ASN
1	A	767	HIS
1	A	856	ASN
1	A	873	GLN
1	A	930	GLN
1	A	1038	HIS
1	A	1039	ASN
1	A	1075	HIS
1	A	1163	GLN
1	A	1214	HIS
1	A	1320	ASN
1	A	1366	GLN
1	A	1398	GLN
1	A	1431	GLN
1	A	1473	HIS
1	A	1486	GLN
1	A	1491	ASN
1	A	1530	ASN
1	A	1541	GLN
1	A	1544	HIS
1	A	1558	GLN
1	A	1589	ASN
1	A	1629	GLN
1	A	1662	GLN
1	B	21	GLN
1	B	75	GLN
1	B	371	GLN
1	B	404	ASN
1	B	408	GLN
1	B	454	HIS
1	B	472	GLN
1	B	525	GLN
1	B	715	ASN
1	B	767	HIS
1	B	856	ASN
1	B	873	GLN
1	B	930	GLN

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Mol	Chain	Res	Type
1	B	1038	HIS
1	B	1039	ASN
1	B	1075	HIS
1	B	1163	GLN
1	B	1214	HIS
1	B	1251	GLN
1	B	1320	ASN
1	B	1366	GLN
1	B	1486	GLN
1	B	1491	ASN
1	B	1530	ASN
1	B	1558	GLN
1	B	1589	ASN
1	B	1629	GLN
1	B	1633	GLN
1	B	1662	GLN
1	C	21	GLN
1	C	75	GLN
1	C	371	GLN
1	C	404	ASN
1	C	408	GLN
1	C	454	HIS
1	C	472	GLN
1	C	525	GLN
1	C	671	GLN
1	C	708	GLN
1	C	715	ASN
1	C	767	HIS
1	C	856	ASN
1	C	873	GLN
1	C	1038	HIS
1	C	1075	HIS
1	C	1214	HIS
1	C	1251	GLN
1	C	1320	ASN
1	C	1366	GLN
1	C	1473	HIS
1	C	1486	GLN
1	C	1491	ASN
1	C	1530	ASN
1	C	1541	GLN
1	C	1558	GLN

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Mol	Chain	Res	Type
1	C	1589	ASN
1	C	1629	GLN
1	C	1662	GLN
1	D	21	GLN
1	D	75	GLN
1	D	371	GLN
1	D	404	ASN
1	D	408	GLN
1	D	454	HIS
1	D	472	GLN
1	D	525	GLN
1	D	542	GLN
1	D	708	GLN
1	D	715	ASN
1	D	767	HIS
1	D	856	ASN
1	D	873	GLN
1	D	1038	HIS
1	D	1039	ASN
1	D	1075	HIS
1	D	1214	HIS
1	D	1251	GLN
1	D	1320	ASN
1	D	1431	GLN
1	D	1473	HIS
1	D	1486	GLN
1	D	1491	ASN
1	D	1530	ASN
1	D	1558	GLN
1	D	1589	ASN
1	D	1629	GLN
1	D	1633	GLN
1	D	1662	GLN
1	E	21	GLN
1	E	404	ASN
1	E	408	GLN
1	E	454	HIS
1	E	472	GLN
1	E	525	GLN
1	E	542	GLN
1	E	565	GLN
1	E	671	GLN

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Mol	Chain	Res	Type
1	E	708	GLN
1	E	715	ASN
1	E	767	HIS
1	E	856	ASN
1	E	873	GLN
1	E	930	GLN
1	E	962	ASN
1	E	1038	HIS
1	E	1039	ASN
1	E	1075	HIS
1	E	1163	GLN
1	E	1214	HIS
1	E	1251	GLN
1	E	1320	ASN
1	E	1366	GLN
1	E	1431	GLN
1	E	1473	HIS
1	E	1486	GLN
1	E	1491	ASN
1	E	1530	ASN
1	E	1558	GLN
1	E	1589	ASN
1	E	1629	GLN
1	E	1633	GLN
1	E	1662	GLN
1	F	21	GLN
1	F	75	GLN
1	F	404	ASN
1	F	408	GLN
1	F	454	HIS
1	F	472	GLN
1	F	525	GLN
1	F	671	GLN
1	F	715	ASN
1	F	767	HIS
1	F	856	ASN
1	F	873	GLN
1	F	930	GLN
1	F	1038	HIS
1	F	1039	ASN
1	F	1075	HIS
1	F	1163	GLN

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Mol	Chain	Res	Type
1	F	1214	HIS
1	F	1251	GLN
1	F	1320	ASN
1	F	1431	GLN
1	F	1473	HIS
1	F	1486	GLN
1	F	1491	ASN
1	F	1530	ASN
1	F	1558	GLN
1	F	1589	ASN
1	F	1629	GLN
1	F	1633	GLN
1	F	1662	GLN
1	F	1670	HIS
2	G	44	GLN
2	G	65	GLN
2	G	98	ASN
2	G	166	ASN
2	G	220	GLN
2	G	232	HIS
2	G	260	HIS
2	G	285	HIS
2	G	287	GLN
2	G	388	ASN
2	G	416	GLN
2	G	430	ASN
2	G	448	HIS
2	G	512	HIS
2	G	529	ASN
2	G	549	ASN
2	G	627	HIS
2	G	661	ASN
2	G	713	HIS
2	G	729	ASN
2	G	752	HIS
2	G	827	GLN
2	G	845	ASN
2	G	911	GLN
2	G	1006	GLN
2	G	1009	ASN
2	G	1014	GLN
2	G	1049	GLN

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Mol	Chain	Res	Type
2	G	1094	HIS
2	G	1109	ASN
2	G	1173	HIS
2	G	1378	ASN
2	G	1400	GLN
2	G	1455	GLN
2	G	1462	GLN
2	G	1500	ASN
2	G	1547	HIS
2	G	1638	ASN
2	G	1646	ASN
2	G	1655	HIS
2	G	1697	GLN
2	G	1702	GLN
2	G	1725	HIS
2	G	1729	ASN
2	G	1759	GLN
2	G	1804	GLN
2	G	1901	GLN
2	G	1919	ASN
2	G	1968	HIS
2	G	1974	GLN
2	G	2006	HIS
2	H	44	GLN
2	H	47	GLN
2	H	65	GLN
2	H	98	ASN
2	H	166	ASN
2	H	220	GLN
2	H	232	HIS
2	H	260	HIS
2	H	285	HIS
2	H	287	GLN
2	H	371	HIS
2	H	388	ASN
2	H	416	GLN
2	H	430	ASN
2	H	448	HIS
2	H	512	HIS
2	H	529	ASN
2	H	549	ASN
2	H	627	HIS

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Mol	Chain	Res	Type
2	H	661	ASN
2	H	713	HIS
2	H	729	ASN
2	H	752	HIS
2	H	827	GLN
2	H	845	ASN
2	H	911	GLN
2	H	1006	GLN
2	H	1009	ASN
2	H	1014	GLN
2	H	1094	HIS
2	H	1173	HIS
2	H	1378	ASN
2	H	1400	GLN
2	H	1455	GLN
2	H	1547	HIS
2	H	1638	ASN
2	H	1646	ASN
2	H	1655	HIS
2	H	1687	GLN
2	H	1697	GLN
2	H	1702	GLN
2	H	1725	HIS
2	H	1729	ASN
2	H	1759	GLN
2	H	1804	GLN
2	H	1901	GLN
2	H	1919	ASN
2	H	1968	HIS
2	H	1974	GLN
2	H	2006	HIS
2	H	2042	ASN
2	H	2059	HIS
2	I	44	GLN
2	I	65	GLN
2	I	98	ASN
2	I	166	ASN
2	I	220	GLN
2	I	232	HIS
2	I	260	HIS
2	I	285	HIS
2	I	287	GLN

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Mol	Chain	Res	Type
2	I	371	HIS
2	I	388	ASN
2	I	416	GLN
2	I	430	ASN
2	I	440	HIS
2	I	448	HIS
2	I	512	HIS
2	I	529	ASN
2	I	549	ASN
2	I	627	HIS
2	I	661	ASN
2	I	713	HIS
2	I	729	ASN
2	I	752	HIS
2	I	827	GLN
2	I	911	GLN
2	I	1006	GLN
2	I	1009	ASN
2	I	1094	HIS
2	I	1173	HIS
2	I	1378	ASN
2	I	1400	GLN
2	I	1455	GLN
2	I	1462	GLN
2	I	1547	HIS
2	I	1608	HIS
2	I	1638	ASN
2	I	1646	ASN
2	I	1655	HIS
2	I	1697	GLN
2	I	1702	GLN
2	I	1725	HIS
2	I	1729	ASN
2	I	1759	GLN
2	I	1804	GLN
2	I	1901	GLN
2	I	1919	ASN
2	I	1968	HIS
2	I	1974	GLN
2	I	2006	HIS
2	I	2042	ASN
2	J	42	HIS

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Mol	Chain	Res	Type
2	J	65	GLN
2	J	166	ASN
2	J	220	GLN
2	J	232	HIS
2	J	260	HIS
2	J	285	HIS
2	J	287	GLN
2	J	388	ASN
2	J	416	GLN
2	J	430	ASN
2	J	448	HIS
2	J	512	HIS
2	J	529	ASN
2	J	549	ASN
2	J	627	HIS
2	J	661	ASN
2	J	713	HIS
2	J	729	ASN
2	J	752	HIS
2	J	827	GLN
2	J	845	ASN
2	J	911	GLN
2	J	1006	GLN
2	J	1009	ASN
2	J	1014	GLN
2	J	1094	HIS
2	J	1109	ASN
2	J	1173	HIS
2	J	1378	ASN
2	J	1400	GLN
2	J	1455	GLN
2	J	1547	HIS
2	J	1559	ASN
2	J	1638	ASN
2	J	1646	ASN
2	J	1655	HIS
2	J	1697	GLN
2	J	1702	GLN
2	J	1725	HIS
2	J	1729	ASN
2	J	1748	HIS
2	J	1759	GLN

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Mol	Chain	Res	Type
2	J	1804	GLN
2	J	1901	GLN
2	J	1919	ASN
2	J	1968	HIS
2	J	1974	GLN
2	J	2006	HIS
2	J	2059	HIS
2	K	65	GLN
2	K	166	ASN
2	K	220	GLN
2	K	232	HIS
2	K	260	HIS
2	K	285	HIS
2	K	287	GLN
2	K	371	HIS
2	K	388	ASN
2	K	416	GLN
2	K	430	ASN
2	K	440	HIS
2	K	448	HIS
2	K	512	HIS
2	K	529	ASN
2	K	549	ASN
2	K	627	HIS
2	K	661	ASN
2	K	713	HIS
2	K	729	ASN
2	K	752	HIS
2	K	827	GLN
2	K	845	ASN
2	K	911	GLN
2	K	1009	ASN
2	K	1014	GLN
2	K	1049	GLN
2	K	1094	HIS
2	K	1173	HIS
2	K	1378	ASN
2	K	1400	GLN
2	K	1455	GLN
2	K	1462	GLN
2	K	1500	ASN
2	K	1547	HIS

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Mol	Chain	Res	Type
2	K	1608	HIS
2	K	1638	ASN
2	K	1646	ASN
2	K	1655	HIS
2	K	1697	GLN
2	K	1702	GLN
2	K	1725	HIS
2	K	1729	ASN
2	K	1759	GLN
2	K	1804	GLN
2	K	1901	GLN
2	K	1919	ASN
2	K	1926	GLN
2	K	1968	HIS
2	K	1974	GLN
2	K	2006	HIS
2	K	2059	HIS
2	L	65	GLN
2	L	166	ASN
2	L	220	GLN
2	L	232	HIS
2	L	260	HIS
2	L	285	HIS
2	L	287	GLN
2	L	371	HIS
2	L	388	ASN
2	L	416	GLN
2	L	430	ASN
2	L	440	HIS
2	L	448	HIS
2	L	512	HIS
2	L	529	ASN
2	L	549	ASN
2	L	627	HIS
2	L	661	ASN
2	L	713	HIS
2	L	729	ASN
2	L	752	HIS
2	L	827	GLN
2	L	845	ASN
2	L	911	GLN
2	L	1006	GLN

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Mol	Chain	Res	Type
2	L	1009	ASN
2	L	1014	GLN
2	L	1094	HIS
2	L	1109	ASN
2	L	1173	HIS
2	L	1378	ASN
2	L	1400	GLN
2	L	1455	GLN
2	L	1547	HIS
2	L	1638	ASN
2	L	1646	ASN
2	L	1655	HIS
2	L	1687	GLN
2	L	1697	GLN
2	L	1702	GLN
2	L	1725	HIS
2	L	1729	ASN
2	L	1759	GLN
2	L	1804	GLN
2	L	1901	GLN
2	L	1919	ASN
2	L	1968	HIS
2	L	1974	GLN
2	L	2006	HIS
2	L	2059	HIS

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

18 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	NAP	A	1901	-	44,52,52	1.05	2 (4%)	51,80,80	1.54	2 (3%)
3	NAP	B	1901	-	44,52,52	1.02	2 (4%)	51,80,80	1.53	4 (7%)
3	NAP	C	1901	-	44,52,52	1.08	2 (4%)	51,80,80	1.60	2 (3%)
3	NAP	D	1901	-	44,52,52	1.12	2 (4%)	51,80,80	1.71	2 (3%)
3	NAP	E	1901	-	44,52,52	1.08	2 (4%)	51,80,80	1.68	4 (7%)
3	NAP	F	1901	-	44,52,52	1.06	2 (4%)	51,80,80	1.64	2 (3%)
4	FMN	G	2101	-	31,33,33	6.07	20 (64%)	38,50,50	1.81	6 (15%)
3	NAP	G	2102	-	44,52,52	1.04	3 (6%)	51,80,80	1.68	1 (1%)
4	FMN	H	2101	-	31,33,33	6.09	19 (61%)	38,50,50	1.69	6 (15%)
3	NAP	H	2102	-	44,52,52	1.06	3 (6%)	51,80,80	1.69	2 (3%)
4	FMN	I	2101	-	31,33,33	6.08	18 (58%)	38,50,50	1.71	6 (15%)
3	NAP	I	2102	-	44,52,52	1.00	2 (4%)	51,80,80	1.72	1 (1%)
4	FMN	J	2101	-	31,33,33	6.33	21 (67%)	38,50,50	1.84	4 (10%)
3	NAP	J	2102	-	44,52,52	1.07	3 (6%)	51,80,80	1.70	2 (3%)
4	FMN	K	2101	-	31,33,33	6.31	20 (64%)	38,50,50	1.65	4 (10%)
3	NAP	K	2102	-	44,52,52	0.99	3 (6%)	51,80,80	1.61	2 (3%)
4	FMN	L	2101	-	31,33,33	6.10	19 (61%)	38,50,50	1.71	5 (13%)
3	NAP	L	2102	-	44,52,52	1.05	3 (6%)	51,80,80	1.66	1 (1%)

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	NAP	A	1901	-	-	0/27/67/67	0/5/5/5
3	NAP	B	1901	-	-	0/27/67/67	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAP	C	1901	-	-	0/27/67/67	0/5/5/5
3	NAP	D	1901	-	-	0/27/67/67	0/5/5/5
3	NAP	E	1901	-	-	0/27/67/67	0/5/5/5
3	NAP	F	1901	-	-	0/27/67/67	0/5/5/5
4	FMN	G	2101	-	-	0/16/18/18	0/3/3/3
3	NAP	G	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	H	2101	-	-	0/16/18/18	0/3/3/3
3	NAP	H	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	I	2101	-	-	0/16/18/18	0/3/3/3
3	NAP	I	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	J	2101	-	-	0/16/18/18	0/3/3/3
3	NAP	J	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	K	2101	-	-	0/16/18/18	0/3/3/3
3	NAP	K	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	L	2101	-	-	0/16/18/18	0/3/3/3
3	NAP	L	2102	-	-	0/27/67/67	0/5/5/5

All (146) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	2101	FMN	C1'-N10	-2.01	1.46	1.48
4	G	2101	FMN	C8M-C8	2.02	1.55	1.51
3	L	2102	NAP	C6N-N1N	2.15	1.41	1.35
3	G	2102	NAP	C6N-N1N	2.22	1.41	1.35
3	I	2102	NAP	C2A-N1A	2.23	1.38	1.33
3	K	2102	NAP	C2A-N1A	2.31	1.38	1.33
3	J	2102	NAP	C2A-N1A	2.33	1.38	1.33
4	K	2101	FMN	P-O5'	2.38	1.67	1.60
3	K	2102	NAP	C6N-N1N	2.38	1.41	1.35
4	G	2101	FMN	C5'-C4'	2.38	1.55	1.51
3	H	2102	NAP	C2A-N1A	2.40	1.38	1.33
3	H	2102	NAP	C6N-N1N	2.42	1.41	1.35
3	G	2102	NAP	C2A-N1A	2.43	1.38	1.33
3	A	1901	NAP	C2A-N1A	2.43	1.38	1.33
3	L	2102	NAP	C2A-N1A	2.48	1.38	1.33
4	I	2101	FMN	P-O3P	2.50	1.65	1.54
4	J	2101	FMN	C8M-C8	2.50	1.55	1.51
4	G	2101	FMN	P-O3P	2.50	1.65	1.54
3	E	1901	NAP	C2A-N1A	2.50	1.38	1.33
3	C	1901	NAP	C2A-N1A	2.51	1.38	1.33
3	B	1901	NAP	C2A-N1A	2.52	1.38	1.33
4	L	2101	FMN	C5'-C4'	2.53	1.55	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	I	2101	FMN	P-O2P	2.58	1.65	1.54
4	L	2101	FMN	P-O3P	2.58	1.65	1.54
4	J	2101	FMN	P-O2P	2.61	1.65	1.54
4	H	2101	FMN	P-O3P	2.62	1.65	1.54
4	K	2101	FMN	C5'-C4'	2.65	1.55	1.51
4	L	2101	FMN	P-O2P	2.65	1.65	1.54
3	D	1901	NAP	C2A-N1A	2.73	1.39	1.33
4	H	2101	FMN	P-O2P	2.74	1.66	1.54
3	J	2102	NAP	C6N-N1N	2.76	1.42	1.35
4	K	2101	FMN	P-O2P	2.81	1.66	1.54
3	F	1901	NAP	C2A-N1A	2.84	1.39	1.33
4	G	2101	FMN	P-O2P	2.90	1.66	1.54
4	K	2101	FMN	P-O3P	2.91	1.66	1.54
4	J	2101	FMN	P-O3P	2.92	1.66	1.54
4	H	2101	FMN	C5'-C4'	2.94	1.56	1.51
4	J	2101	FMN	C5'-C4'	3.23	1.56	1.51
3	F	1901	NAP	C2A-N3A	3.51	1.38	1.32
3	I	2102	NAP	C2A-N3A	3.63	1.38	1.32
3	B	1901	NAP	C2A-N3A	3.65	1.38	1.32
3	K	2102	NAP	C2A-N3A	3.69	1.38	1.32
3	H	2102	NAP	C2A-N3A	3.73	1.38	1.32
3	J	2102	NAP	C2A-N3A	3.75	1.38	1.32
3	G	2102	NAP	C2A-N3A	3.83	1.38	1.32
3	A	1901	NAP	C2A-N3A	3.99	1.38	1.32
3	L	2102	NAP	C2A-N3A	4.03	1.38	1.32
3	C	1901	NAP	C2A-N3A	4.15	1.39	1.32
3	D	1901	NAP	C2A-N3A	4.15	1.39	1.32
3	E	1901	NAP	C2A-N3A	4.16	1.39	1.32
4	L	2101	FMN	C4-C4A	5.24	1.51	1.41
4	H	2101	FMN	C4-C4A	5.34	1.51	1.41
4	G	2101	FMN	C4-C4A	5.47	1.51	1.41
4	I	2101	FMN	C9A-C5A	5.58	1.54	1.42
4	J	2101	FMN	C4-C4A	5.59	1.52	1.41
4	I	2101	FMN	C4-C4A	5.67	1.52	1.41
4	K	2101	FMN	C9A-C5A	5.82	1.54	1.42
4	G	2101	FMN	C9A-C5A	5.83	1.54	1.42
4	H	2101	FMN	C9A-C5A	5.90	1.54	1.42
4	L	2101	FMN	C9A-C5A	6.08	1.55	1.42
4	L	2101	FMN	O4-C4	6.34	1.40	1.24
4	G	2101	FMN	C8-C7	6.40	1.57	1.41
4	K	2101	FMN	C4-C4A	6.42	1.53	1.41
4	I	2101	FMN	C8-C7	6.47	1.57	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	2101	FMN	O4-C4	6.47	1.40	1.24
4	I	2101	FMN	O4-C4	6.48	1.40	1.24
4	J	2101	FMN	C9A-C5A	6.53	1.56	1.42
4	G	2101	FMN	O4-C4	6.64	1.41	1.24
4	K	2101	FMN	O4-C4	6.67	1.41	1.24
4	L	2101	FMN	C8-C7	6.72	1.58	1.41
4	G	2101	FMN	C2-N3	6.72	1.51	1.38
4	J	2101	FMN	O4-C4	6.77	1.41	1.24
4	K	2101	FMN	C8-C7	6.78	1.58	1.41
4	H	2101	FMN	C8-C7	6.78	1.58	1.41
4	H	2101	FMN	C2-N3	6.83	1.51	1.38
4	L	2101	FMN	C9-C8	6.85	1.56	1.37
4	I	2101	FMN	C2-N3	6.86	1.51	1.38
4	I	2101	FMN	C9-C8	6.89	1.56	1.37
4	K	2101	FMN	C2-N3	6.94	1.51	1.38
4	H	2101	FMN	C9-C8	7.02	1.56	1.37
4	L	2101	FMN	C2-N3	7.05	1.52	1.38
4	K	2101	FMN	C9-C8	7.08	1.56	1.37
4	L	2101	FMN	C6-C7	7.10	1.56	1.37
4	G	2101	FMN	C4A-C10	7.11	1.53	1.41
4	H	2101	FMN	C4A-C10	7.12	1.53	1.41
4	I	2101	FMN	C6-C7	7.13	1.56	1.37
4	G	2101	FMN	C9-C8	7.17	1.56	1.37
4	J	2101	FMN	C2-N3	7.18	1.52	1.38
4	L	2101	FMN	C4A-C10	7.22	1.53	1.41
4	I	2101	FMN	C4A-C10	7.24	1.53	1.41
4	G	2101	FMN	C6-C7	7.25	1.57	1.37
4	K	2101	FMN	C4A-C10	7.29	1.53	1.41
4	H	2101	FMN	C6-C7	7.47	1.57	1.37
4	J	2101	FMN	C8-C7	7.50	1.59	1.41
4	J	2101	FMN	C9A-N10	7.50	1.48	1.38
4	K	2101	FMN	C6-C7	7.55	1.57	1.37
4	J	2101	FMN	C6-C7	7.58	1.58	1.37
4	H	2101	FMN	C2-N1	7.61	1.53	1.38
4	J	2101	FMN	C9-C8	7.63	1.58	1.37
4	L	2101	FMN	C2-N1	7.69	1.53	1.38
4	J	2101	FMN	C4A-C10	7.82	1.54	1.41
4	G	2101	FMN	C2-N1	7.96	1.53	1.38
4	G	2101	FMN	C9A-N10	7.97	1.49	1.38
4	I	2101	FMN	C2-N1	7.99	1.54	1.38
4	J	2101	FMN	C2-N1	8.02	1.54	1.38
4	L	2101	FMN	C9A-N10	8.20	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	2101	FMN	C9A-N10	8.22	1.49	1.38
4	K	2101	FMN	C9A-N10	8.44	1.49	1.38
4	I	2101	FMN	C9A-N10	8.49	1.49	1.38
4	K	2101	FMN	C2-N1	8.67	1.55	1.38
4	L	2101	FMN	C9-C9A	8.84	1.59	1.40
4	G	2101	FMN	C9-C9A	8.85	1.59	1.40
4	L	2101	FMN	C4-N3	8.91	1.49	1.33
4	I	2101	FMN	C9-C9A	8.92	1.59	1.40
4	G	2101	FMN	C4-N3	8.92	1.49	1.33
4	H	2101	FMN	C4-N3	8.96	1.49	1.33
4	I	2101	FMN	C4-N3	8.99	1.49	1.33
4	K	2101	FMN	C9-C9A	9.14	1.60	1.40
4	J	2101	FMN	C9-C9A	9.16	1.60	1.40
4	H	2101	FMN	C9-C9A	9.17	1.60	1.40
4	K	2101	FMN	C4-N3	9.40	1.50	1.33
4	J	2101	FMN	C4-N3	9.63	1.50	1.33
4	K	2101	FMN	C5A-N5	9.71	1.50	1.35
4	H	2101	FMN	C5A-N5	9.72	1.50	1.35
4	J	2101	FMN	C5A-N5	9.81	1.50	1.35
4	I	2101	FMN	C5A-N5	9.82	1.50	1.35
4	G	2101	FMN	C5A-N5	9.94	1.50	1.35
4	H	2101	FMN	C10-N1	10.15	1.47	1.33
4	L	2101	FMN	C5A-N5	10.32	1.51	1.35
4	I	2101	FMN	C10-N1	10.40	1.47	1.33
4	G	2101	FMN	C10-N1	10.54	1.48	1.33
4	L	2101	FMN	C10-N1	10.65	1.48	1.33
4	J	2101	FMN	C10-N1	10.97	1.48	1.33
4	I	2101	FMN	C6-C5A	11.03	1.58	1.41
4	H	2101	FMN	C6-C5A	11.05	1.58	1.41
4	L	2101	FMN	C6-C5A	11.13	1.58	1.41
4	G	2101	FMN	C6-C5A	11.14	1.58	1.41
4	K	2101	FMN	C6-C5A	11.20	1.58	1.41
4	K	2101	FMN	C10-N1	11.32	1.49	1.33
4	J	2101	FMN	C6-C5A	11.41	1.58	1.41
4	G	2101	FMN	C4A-N5	11.62	1.50	1.33
4	L	2101	FMN	C4A-N5	11.74	1.50	1.33
4	I	2101	FMN	C4A-N5	11.96	1.50	1.33
4	H	2101	FMN	C4A-N5	11.98	1.50	1.33
4	J	2101	FMN	C4A-N5	12.08	1.50	1.33
4	K	2101	FMN	C4A-N5	12.36	1.51	1.33

All (56) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	2102	NAP	N3A-C2A-N1A	-10.85	119.41	128.86
3	D	1901	NAP	N3A-C2A-N1A	-10.80	119.45	128.86
3	G	2102	NAP	N3A-C2A-N1A	-10.42	119.78	128.86
3	J	2102	NAP	N3A-C2A-N1A	-10.40	119.80	128.86
3	L	2102	NAP	N3A-C2A-N1A	-10.31	119.88	128.86
3	H	2102	NAP	N3A-C2A-N1A	-10.25	119.93	128.86
3	E	1901	NAP	N3A-C2A-N1A	-10.24	119.94	128.86
3	F	1901	NAP	N3A-C2A-N1A	-10.03	120.13	128.86
3	K	2102	NAP	N3A-C2A-N1A	-9.86	120.28	128.86
3	C	1901	NAP	N3A-C2A-N1A	-9.84	120.29	128.86
3	A	1901	NAP	N3A-C2A-N1A	-9.52	120.56	128.86
3	B	1901	NAP	N3A-C2A-N1A	-8.97	121.05	128.86
4	J	2101	FMN	C4A-C4-N3	-3.29	118.80	123.48
4	G	2101	FMN	C4A-C4-N3	-3.01	119.20	123.48
4	L	2101	FMN	C4A-C4-N3	-2.99	119.23	123.48
4	H	2101	FMN	C4A-C4-N3	-2.97	119.26	123.48
4	I	2101	FMN	C4A-C4-N3	-2.75	119.57	123.48
3	C	1901	NAP	C4D-O4D-C1D	-2.58	107.03	109.77
3	B	1901	NAP	C4D-O4D-C1D	-2.33	107.29	109.77
3	F	1901	NAP	C4D-O4D-C1D	-2.26	107.37	109.77
4	H	2101	FMN	C4A-C10-N10	-2.25	118.96	120.52
3	K	2102	NAP	C4A-C5A-N7A	-2.24	107.25	109.41
4	G	2101	FMN	O4'-C4'-C5'	-2.23	105.03	110.00
4	I	2101	FMN	O4'-C4'-C5'	-2.19	105.13	110.00
3	B	1901	NAP	C3N-C7N-N7N	-2.14	115.33	117.77
3	E	1901	NAP	C4D-O4D-C1D	-2.12	107.51	109.77
3	J	2102	NAP	C3N-C7N-N7N	-2.11	115.36	117.77
3	H	2102	NAP	C3N-C7N-N7N	-2.08	115.40	117.77
3	B	1901	NAP	C4A-C5A-N7A	-2.06	107.42	109.41
3	D	1901	NAP	C4D-O4D-C1D	-2.05	107.59	109.77
3	E	1901	NAP	O2N-PN-O1N	2.14	123.33	112.28
3	A	1901	NAP	O7N-C7N-C3N	2.19	122.19	119.62
3	E	1901	NAP	O7N-C7N-C3N	2.24	122.24	119.62
4	H	2101	FMN	C4A-N5-C5A	2.66	119.57	116.76
4	G	2101	FMN	C1'-N10-C10	2.89	121.46	118.50
4	I	2101	FMN	C1'-N10-C10	2.95	121.53	118.50
4	K	2101	FMN	C1'-N10-C10	3.14	121.72	118.50
4	H	2101	FMN	C1'-N10-C10	3.16	121.74	118.50
4	G	2101	FMN	C4A-N5-C5A	3.18	120.12	116.76
4	L	2101	FMN	C4A-N5-C5A	3.27	120.21	116.76
4	L	2101	FMN	C1'-N10-C10	3.28	121.86	118.50
4	I	2101	FMN	C4A-N5-C5A	3.30	120.24	116.76
4	L	2101	FMN	C5A-C9A-N10	3.41	120.19	117.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	K	2101	FMN	C4A-N5-C5A	3.64	120.60	116.76
4	G	2101	FMN	C5A-C9A-N10	3.74	120.44	117.66
4	K	2101	FMN	C5A-C9A-N10	3.78	120.47	117.66
4	J	2101	FMN	C1'-N10-C10	4.01	122.61	118.50
4	H	2101	FMN	C5A-C9A-N10	4.09	120.69	117.66
4	I	2101	FMN	C5A-C9A-N10	4.10	120.71	117.66
4	J	2101	FMN	C5A-C9A-N10	4.53	121.02	117.66
4	K	2101	FMN	C4-N3-C2	5.37	119.85	115.16
4	I	2101	FMN	C4-N3-C2	6.12	120.51	115.16
4	H	2101	FMN	C4-N3-C2	6.48	120.82	115.16
4	L	2101	FMN	C4-N3-C2	6.48	120.82	115.16
4	G	2101	FMN	C4-N3-C2	7.03	121.31	115.16
4	J	2101	FMN	C4-N3-C2	7.04	121.32	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

18 monomers are involved in 147 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1901	NAP	5	0
3	B	1901	NAP	5	0
3	C	1901	NAP	4	0
3	D	1901	NAP	6	0
3	E	1901	NAP	4	0
3	F	1901	NAP	4	0
4	G	2101	FMN	17	0
3	G	2102	NAP	4	0
4	H	2101	FMN	16	0
3	H	2102	NAP	5	0
4	I	2101	FMN	16	0
3	I	2102	NAP	4	0
4	J	2101	FMN	15	0
3	J	2102	NAP	4	0
4	K	2101	FMN	15	0
3	K	2102	NAP	4	0
4	L	2101	FMN	15	0
3	L	2102	NAP	4	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	A	1457/1878 (77%)	0.30	44 (3%)	51	27	16, 50, 103, 146	0
1	B	1464/1878 (77%)	0.31	38 (2%)	56	33	17, 50, 106, 157	0
1	C	1462/1878 (77%)	0.33	44 (3%)	51	27	15, 48, 107, 155	0
1	D	1467/1878 (78%)	0.29	47 (3%)	48	25	17, 52, 106, 151	0
1	E	1456/1878 (77%)	0.31	47 (3%)	48	25	17, 50, 106, 152	0
1	F	1461/1878 (77%)	0.34	37 (2%)	58	35	17, 47, 106, 156	0
2	G	2060/2060 (100%)	0.48	170 (8%)	12	4	24, 83, 128, 156	0
2	H	2060/2060 (100%)	0.57	222 (10%)	6	2	24, 85, 129, 155	0
2	I	2060/2060 (100%)	0.51	212 (10%)	7	2	20, 85, 129, 158	0
2	J	2060/2060 (100%)	0.61	275 (13%)	4	1	27, 88, 132, 157	0
2	K	2060/2060 (100%)	0.85	353 (17%)	2	1	25, 90, 133, 157	0
2	L	2060/2060 (100%)	0.58	259 (12%)	4	2	22, 86, 131, 158	0
All	All	21127/23628 (89%)	0.48	1748 (8%)	12	4	15, 74, 125, 158	0

All (1748) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	K	176	GLN	16.8
2	H	178	ASN	14.1
2	K	178	ASN	14.0
2	K	175	GLY	12.8
2	K	516	PHE	12.5
2	K	517	GLY	11.2
2	K	295	ILE	11.0
2	H	35	PHE	10.7
2	H	24	LEU	10.4
2	I	1123	ALA	9.5
2	K	26	LEU	9.3

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Mol	Chain	Res	Type	RSRZ
2	L	1915	LEU	9.3
2	H	1953	ILE	9.2
2	K	543	GLY	8.5
2	K	40	SER	8.3
2	K	105	ILE	8.2
2	L	1348	PHE	8.2
2	I	1900	LEU	8.2
2	K	279	PHE	8.1
2	K	294	ALA	8.0
2	H	40	SER	8.0
2	L	109	PHE	8.0
2	J	24	LEU	8.0
2	K	817	MET	7.8
2	K	109	PHE	7.8
2	K	177	GLY	7.8
2	K	285	HIS	7.7
2	K	1068	GLN	7.6
2	K	104	LEU	7.6
2	J	26	LEU	7.6
2	J	261	TYR	7.5
2	K	76	VAL	7.4
2	H	177	GLY	7.4
2	J	1357	ILE	7.4
2	H	76	VAL	7.3
2	G	44	GLN	7.3
2	J	1123	ALA	7.0
2	K	1900	LEU	7.0
2	L	41	LEU	6.9
2	L	2005	PHE	6.9
2	K	435	ILE	6.9
2	H	1124	THR	6.9
2	K	173	PHE	6.8
2	K	478	LEU	6.8
2	J	558	LEU	6.8
2	K	102	LEU	6.7
2	K	1067	LEU	6.7
2	K	807	PHE	6.7
2	H	295	ILE	6.7
2	K	113	PHE	6.7
2	K	487	ILE	6.6
2	H	23	PRO	6.5
2	K	260	HIS	6.5

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Mol	Chain	Res	Type	RSRZ
2	I	178	ASN	6.5
2	H	79	TYR	6.4
2	K	515	ASP	6.4
2	I	2077	TYR	6.4
2	J	175	GLY	6.4
2	J	516	PHE	6.3
2	K	171	SER	6.3
2	H	33	PHE	6.2
2	G	606	ALA	6.2
2	K	605	VAL	6.2
2	J	45	ALA	6.2
2	K	100	GLU	6.1
2	K	258	LEU	6.1
2	L	478	LEU	6.1
2	K	123	ALA	6.0
2	K	252	LEU	6.0
2	K	486	ILE	6.0
2	K	159	PHE	6.0
2	I	1128	PRO	6.0
2	I	1357	ILE	6.0
2	K	606	ALA	6.0
2	K	283	THR	6.0
2	K	558	LEU	6.0
2	H	37	VAL	5.9
2	L	1142	ILE	5.9
2	K	810	CYS	5.9
2	L	1900	LEU	5.9
2	I	176	GLN	5.8
2	K	35	PHE	5.8
2	L	1841	TYR	5.8
2	J	25	VAL	5.8
2	L	275	LEU	5.8
2	G	171	SER	5.8
2	L	1886	VAL	5.7
2	J	1196	PHE	5.7
2	K	544	ALA	5.7
2	J	1943	LEU	5.7
2	H	225	LEU	5.7
2	H	175	GLY	5.7
2	K	604	MET	5.7
2	J	252	LEU	5.7
2	K	80	ILE	5.6

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Mol	Chain	Res	Type	RSRZ
2	J	275	LEU	5.6
2	L	2070	ILE	5.6
1	F	44	ILE	5.5
2	K	255	LEU	5.5
2	K	296	ALA	5.5
2	K	518	PRO	5.5
2	K	284	GLY	5.5
2	K	308	ALA	5.5
2	K	275	LEU	5.4
2	K	662	LEU	5.4
2	K	491	VAL	5.4
2	K	174	GLY	5.3
2	J	295	ILE	5.3
1	A	577	LEU	5.3
2	H	293	ALA	5.3
2	J	35	PHE	5.3
2	J	716	PHE	5.2
2	K	293	ALA	5.2
2	K	261	TYR	5.2
2	H	26	LEU	5.2
2	G	516	PHE	5.2
2	K	146	ALA	5.2
2	J	742	GLN	5.2
2	J	178	ASN	5.1
1	F	1574	LEU	5.1
2	L	2004	PRO	5.1
2	K	514	VAL	5.1
2	G	1350	ILE	5.1
2	L	1930	ALA	5.1
2	K	692	ILE	5.1
2	K	101	VAL	5.1
2	I	1902	TYR	5.1
1	E	552	ILE	5.1
2	I	2005	PHE	5.1
2	J	75	LEU	5.0
2	H	261	TYR	5.0
2	K	660	VAL	5.0
2	L	113	PHE	5.0
2	J	1122	LYS	5.0
2	K	41	LEU	5.0
1	A	552	ILE	4.9
2	L	201	ILE	4.9

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Mol	Chain	Res	Type	RSRZ
2	K	163	ALA	4.9
2	H	113	PHE	4.9
1	E	44	ILE	4.9
2	J	1993	PHE	4.9
2	J	93	ASP	4.9
2	G	1305	LEU	4.9
2	K	1895	PHE	4.9
2	K	526	VAL	4.8
2	K	776	LEU	4.8
2	L	72	VAL	4.8
2	L	1128	PRO	4.8
2	L	516	PHE	4.8
1	C	853	MET	4.8
2	I	23	PRO	4.8
2	L	532	LYS	4.8
2	J	176	GLN	4.8
2	L	83	VAL	4.8
2	L	604	MET	4.7
2	J	27	THR	4.7
2	J	172	ILE	4.7
2	J	1124	THR	4.7
2	H	174	GLY	4.7
2	G	478	LEU	4.7
2	H	34	SER	4.7
2	G	853	GLY	4.7
2	K	716	PHE	4.7
2	K	740	ILE	4.6
2	K	290	VAL	4.6
2	K	44	GLN	4.6
2	K	747	ARG	4.6
2	I	79	TYR	4.6
2	G	1065	CYS	4.6
2	I	1841	TYR	4.6
2	H	551	GLU	4.6
2	J	1164	ILE	4.6
2	J	1261	PHE	4.6
2	J	627	HIS	4.6
2	H	75	LEU	4.6
2	J	308	ALA	4.6
2	K	53	LEU	4.6
2	K	1066	ILE	4.5
2	H	1915	LEU	4.5

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Mol	Chain	Res	Type	RSRZ
2	K	292	ALA	4.5
2	K	1196	PHE	4.5
2	L	176	GLN	4.5
2	J	120	HIS	4.5
2	K	490	LEU	4.5
2	H	1100	ARG	4.5
2	J	467	ILE	4.5
2	G	1123	ALA	4.5
2	I	1244	LEU	4.5
2	J	23	PRO	4.5
2	L	45	ALA	4.4
2	K	1589	PRO	4.4
2	K	19	GLN	4.4
2	K	93	ASP	4.4
2	L	24	LEU	4.4
2	G	1124	THR	4.4
2	K	711	ILE	4.4
2	K	524	ILE	4.4
2	L	1122	LYS	4.4
2	H	1900	LEU	4.3
2	J	113	PHE	4.3
2	J	173	PHE	4.3
2	J	2078	GLU	4.3
2	J	1612	THR	4.3
2	H	80	ILE	4.3
2	K	25	VAL	4.3
2	L	1204	VAL	4.3
2	I	809	GLY	4.3
2	G	252	LEU	4.3
2	J	514	VAL	4.3
2	K	693	GLY	4.3
2	J	182	TYR	4.3
2	K	311	ALA	4.3
2	K	1042	PHE	4.3
2	I	1196	PHE	4.3
2	I	1124	THR	4.3
2	L	351	LEU	4.3
2	I	516	PHE	4.3
2	K	347	PRO	4.3
1	E	1443	LEU	4.3
2	J	1989	LEU	4.3
2	H	1999	ARG	4.3

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Mol	Chain	Res	Type	RSRZ
2	L	35	PHE	4.3
2	L	264	THR	4.2
2	L	1692	TYR	4.2
2	I	1122	LYS	4.2
2	I	177	GLY	4.2
2	G	627	HIS	4.2
2	I	24	LEU	4.2
2	K	690	LEU	4.2
2	J	659	THR	4.2
2	J	1128	PRO	4.2
2	K	782	PHE	4.2
2	H	811	MET	4.2
2	K	72	VAL	4.2
2	K	282	THR	4.2
2	K	91	ASP	4.2
2	K	384	ASN	4.2
2	J	1192	LEU	4.2
2	H	1870	ALA	4.2
1	D	852	LEU	4.2
2	J	490	LEU	4.2
2	H	328	ARG	4.1
2	K	598	LEU	4.1
2	K	1965	VAL	4.1
2	H	41	LEU	4.1
2	J	158	LEU	4.1
2	K	251	PRO	4.1
2	L	158	LEU	4.1
2	K	1401	ILE	4.1
2	J	136	VAL	4.1
2	L	2042	ASN	4.1
2	G	811	MET	4.1
2	K	27	THR	4.1
2	L	1068	GLN	4.1
2	L	2017	PHE	4.1
2	I	487	ILE	4.1
2	I	35	PHE	4.1
2	J	41	LEU	4.1
2	K	603	VAL	4.1
2	J	1217	ILE	4.1
2	K	36	LEU	4.1
2	J	1596	PHE	4.1
2	J	28	HIS	4.1

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Mol	Chain	Res	Type	RSRZ
2	L	268	LEU	4.1
2	K	448	HIS	4.0
1	F	77	GLN	4.0
2	I	1427	MET	4.0
2	K	1175	MET	4.0
2	G	807	PHE	4.0
2	I	255	LEU	4.0
2	G	294	ALA	4.0
2	K	48	LEU	4.0
2	K	169	ILE	4.0
2	K	597	LEU	4.0
2	J	1348	PHE	4.0
1	C	36	LEU	4.0
2	H	102	LEU	4.0
2	H	186	LEU	4.0
2	J	452	LEU	4.0
2	L	513	ILE	4.0
2	H	2005	PHE	4.0
2	I	104	LEU	4.0
1	C	35	ILE	4.0
2	K	24	LEU	4.0
2	G	119	VAL	4.0
2	H	227	ILE	4.0
2	K	627	HIS	4.0
2	J	48	LEU	3.9
2	J	782	PHE	3.9
2	J	1771	ALA	3.9
2	I	1415	VAL	3.9
1	A	44	ILE	3.9
2	H	173	PHE	3.9
2	H	176	GLN	3.9
2	K	28	HIS	3.9
2	K	1049	GLN	3.9
2	I	1217	ILE	3.9
2	J	1697	GLN	3.9
2	K	1448	ARG	3.9
2	K	1590	ILE	3.9
2	L	105	ILE	3.9
2	H	779	GLY	3.9
2	H	45	ALA	3.9
2	H	100	GLU	3.9
2	K	172	ILE	3.9

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Mol	Chain	Res	Type	RSRZ
2	L	172	ILE	3.9
2	K	1029	PRO	3.9
2	K	1426	VAL	3.9
2	L	76	VAL	3.9
2	J	1066	ILE	3.9
2	H	294	ALA	3.9
2	K	186	LEU	3.9
2	K	1227	LYS	3.9
2	L	1943	LEU	3.9
2	L	79	TYR	3.9
2	H	59	PRO	3.9
2	J	279	PHE	3.9
2	K	860	GLU	3.9
2	L	1361	ILE	3.9
2	H	552	VAL	3.8
2	H	1401	ILE	3.8
2	H	1954	GLN	3.8
1	B	14	LEU	3.8
2	L	605	VAL	3.8
2	H	1943	LEU	3.8
2	L	37	VAL	3.8
2	I	1243	ALA	3.8
2	K	33	PHE	3.8
2	I	1144	TYR	3.8
2	J	1886	VAL	3.8
2	J	79	TYR	3.8
2	K	120	HIS	3.8
2	L	518	PRO	3.8
2	G	1366	ILE	3.8
2	J	291	VAL	3.8
2	J	139	ALA	3.7
2	I	1953	ILE	3.7
2	L	167	VAL	3.7
2	J	604	MET	3.7
2	I	1730	TYR	3.7
2	I	27	THR	3.7
2	L	1124	THR	3.7
2	G	662	LEU	3.7
2	H	467	ILE	3.7
2	K	23	PRO	3.7
2	I	1850	VAL	3.7
2	J	312	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
2	J	807	PHE	3.7
2	K	262	MET	3.7
1	F	41	THR	3.7
2	J	603	VAL	3.7
2	H	986	LEU	3.7
2	K	1483	LEU	3.7
2	L	225	LEU	3.7
2	H	513	ILE	3.7
2	K	617	PHE	3.7
2	K	1596	PHE	3.7
2	K	493	MET	3.7
1	B	1574	LEU	3.7
2	H	598	LEU	3.7
1	E	78	ILE	3.7
2	J	283	THR	3.7
2	J	1917	ILE	3.7
2	K	37	VAL	3.7
2	J	805	MET	3.7
2	J	259	ALA	3.7
2	J	286	SER	3.7
2	K	304	PHE	3.7
2	L	1995	THR	3.7
2	L	810	CYS	3.7
1	E	566	PHE	3.7
2	I	113	PHE	3.7
2	I	1127	GLU	3.7
2	I	45	ALA	3.6
2	L	568	PHE	3.6
1	A	548	VAL	3.6
2	L	1917	ILE	3.6
1	E	45	VAL	3.6
2	H	284	GLY	3.6
2	K	525	GLY	3.6
1	D	14	LEU	3.6
2	H	617	PHE	3.6
2	I	1734	ILE	3.6
2	J	169	ILE	3.6
2	K	589	PHE	3.6
2	L	469	VAL	3.6
2	H	77	ALA	3.6
2	K	738	PRO	3.6
1	B	1453	GLN	3.6

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Mol	Chain	Res	Type	RSRZ
2	I	26	LEU	3.6
2	G	1196	PHE	3.6
2	J	134	ILE	3.6
2	K	259	ALA	3.6
2	J	1599	TYR	3.6
1	F	36	LEU	3.6
2	J	1370	LEU	3.6
2	J	1042	PHE	3.6
2	J	1361	ILE	3.6
1	D	851	GLY	3.6
2	K	75	LEU	3.6
2	I	1358	THR	3.6
2	L	1616	VAL	3.6
2	H	36	LEU	3.6
2	L	598	LEU	3.6
2	H	158	LEU	3.6
2	K	56	LEU	3.6
1	B	78	ILE	3.6
2	H	101	VAL	3.6
2	J	264	THR	3.6
2	I	2017	PHE	3.5
1	B	552	ILE	3.5
2	G	435	ILE	3.5
1	C	569	LEU	3.5
2	H	1192	LEU	3.5
2	H	2035	LEU	3.5
2	J	709	LEU	3.5
2	J	1125	ASP	3.5
2	K	748	GLY	3.5
2	G	279	PHE	3.5
2	H	285	HIS	3.5
2	I	716	PHE	3.5
2	K	1793	TYR	3.5
2	I	1361	ILE	3.5
2	H	694	ALA	3.5
2	I	119	VAL	3.5
2	G	173	PHE	3.5
2	H	179	ILE	3.5
2	J	1620	VAL	3.5
2	K	743	TRP	3.5
2	I	810	CYS	3.5
2	K	1902	TYR	3.5

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Mol	Chain	Res	Type	RSRZ
2	I	1943	LEU	3.5
2	J	137	VAL	3.5
1	A	1443	LEU	3.5
2	K	1699	SER	3.5
1	C	1635	ILE	3.5
2	L	1067	LEU	3.5
2	L	1936	LEU	3.5
2	H	1068	GLN	3.5
2	I	1995	THR	3.5
2	L	175	GLY	3.5
2	J	876	TRP	3.5
2	G	1121	LEU	3.5
2	L	774	ILE	3.5
2	L	43	PHE	3.5
2	L	807	PHE	3.5
2	I	1599	TYR	3.5
2	J	171	SER	3.5
2	I	1371	LEU	3.5
2	J	1289	TYR	3.5
2	K	190	TYR	3.5
1	B	18	LEU	3.5
2	K	1943	LEU	3.5
2	J	1067	LEU	3.4
2	L	1143	SER	3.4
2	K	201	ILE	3.4
2	K	1016	PHE	3.4
1	E	541	VAL	3.4
1	C	78	ILE	3.4
2	H	782	PHE	3.4
2	K	458	MET	3.4
2	L	252	LEU	3.4
2	L	1928	VAL	3.4
1	E	28	TRP	3.4
2	G	778	ALA	3.4
2	I	1067	LEU	3.4
2	J	816	MET	3.4
2	K	1043	LYS	3.4
2	H	264	THR	3.4
2	H	627	HIS	3.4
2	J	1900	LEU	3.4
2	L	261	TYR	3.4
2	I	2040	ILE	3.4

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Mol	Chain	Res	Type	RSRZ
2	J	1998	LEU	3.4
2	L	1939	LEU	3.4
2	G	716	PHE	3.4
2	H	260	HIS	3.4
2	G	255	LEU	3.4
2	H	106	LEU	3.4
2	J	690	LEU	3.4
2	H	120	HIS	3.4
2	I	1931	GLY	3.4
2	J	76	VAL	3.4
2	L	1123	ALA	3.4
2	G	742	GLN	3.4
2	K	1397	THR	3.4
2	G	469	VAL	3.4
2	J	542	ALA	3.4
2	J	1939	LEU	3.4
2	K	79	TYR	3.4
2	K	1326	HIS	3.4
2	L	1642	MET	3.4
2	L	1653	LEU	3.4
2	J	298	ALA	3.4
1	D	44	ILE	3.4
2	I	868	LEU	3.3
2	L	1349	ALA	3.3
1	A	1490	GLY	3.3
1	D	656	LEU	3.3
2	H	48	LEU	3.3
2	H	1612	THR	3.3
2	J	72	VAL	3.3
2	K	351	LEU	3.3
2	J	1953	ILE	3.3
2	L	1293	TRP	3.3
2	G	630	LEU	3.3
2	I	279	PHE	3.3
2	G	1067	LEU	3.3
2	K	1419	LEU	3.3
2	K	713	HIS	3.3
2	K	1691	ALA	3.3
2	G	41	LEU	3.3
2	G	72	VAL	3.3
2	J	430	ASN	3.3
2	I	105	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
2	L	2066	LYS	3.3
1	B	1627	PHE	3.3
2	I	1261	PHE	3.3
2	J	1126	GLU	3.3
2	G	1070	PRO	3.3
1	D	1443	LEU	3.3
2	J	677	LEU	3.3
2	L	1989	LEU	3.3
2	H	105	ILE	3.3
2	H	1836	HIS	3.3
2	H	1939	LEU	3.3
2	J	1305	LEU	3.3
2	J	307	ALA	3.3
2	K	148	GLY	3.3
2	K	1261	PHE	3.3
2	K	350	MET	3.3
2	K	147	ALA	3.3
2	L	1217	ILE	3.3
2	I	2013	GLY	3.3
2	I	102	LEU	3.3
2	I	1836	HIS	3.3
2	I	1906	ASN	3.3
2	I	1946	LEU	3.3
2	K	811	MET	3.3
2	I	123	ALA	3.3
2	H	1196	PHE	3.3
2	J	1160	PHE	3.3
2	I	2070	ILE	3.3
1	B	558	LEU	3.3
2	H	1969	LEU	3.3
2	K	741	LEU	3.3
2	L	559	PHE	3.3
2	H	663	ILE	3.2
2	K	611	THR	3.2
2	J	1467	LEU	3.2
2	L	1042	PHE	3.2
2	I	2074	TRP	3.2
2	J	122	ILE	3.2
2	G	1259	LEU	3.2
2	K	142	ALA	3.2
2	G	494	ILE	3.2
2	I	435	ILE	3.2

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Mol	Chain	Res	Type	RSRZ
2	K	488	PRO	3.2
2	H	25	VAL	3.2
2	K	572	TRP	3.2
2	G	635	TYR	3.2
2	K	868	LEU	3.2
2	K	1041	TRP	3.2
2	J	566	VAL	3.2
2	G	298	ALA	3.2
2	L	1196	PHE	3.2
2	K	92	GLU	3.2
2	G	783	GLY	3.2
2	J	102	LEU	3.2
2	J	276	LEU	3.2
2	L	1951	ILE	3.2
2	K	946	HIS	3.2
2	L	627	HIS	3.2
2	H	807	PHE	3.2
2	K	140	TYR	3.2
2	K	1425	PRO	3.2
2	G	490	LEU	3.2
2	G	744	THR	3.2
2	H	1867	MET	3.2
2	J	513	ILE	3.2
1	D	570	TYR	3.2
2	H	290	VAL	3.2
2	K	390	VAL	3.2
1	B	1519	VAL	3.2
2	G	290	VAL	3.2
2	H	606	ALA	3.2
2	I	72	VAL	3.2
2	K	69	PRO	3.2
2	J	867	LYS	3.2
1	D	1620	PHE	3.2
2	I	505	THR	3.2
2	J	1435	TYR	3.2
2	L	1580	TYR	3.2
1	E	79	LEU	3.2
2	H	543	GLY	3.2
2	L	558	LEU	3.2
2	L	1121	LEU	3.2
2	L	1833	PHE	3.2
2	H	193	TYR	3.2

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Mol	Chain	Res	Type	RSRZ
2	H	1916	GLU	3.2
2	J	868	LEU	3.1
2	H	812	PHE	3.1
2	K	1050	SER	3.1
1	C	18	LEU	3.1
1	E	880	LEU	3.1
2	G	281	GLY	3.1
2	H	524	ILE	3.1
1	B	555	GLN	3.1
2	K	1530	TYR	3.1
2	I	1370	LEU	3.1
1	A	26	VAL	3.1
2	G	1850	VAL	3.1
2	L	1840	GLU	3.1
1	F	14	LEU	3.1
2	H	580	LEU	3.1
2	K	268	LEU	3.1
1	B	44	ILE	3.1
1	C	584	ILE	3.1
2	I	1917	ILE	3.1
2	I	617	PHE	3.1
2	L	1694	PHE	3.1
2	K	1999	ARG	3.1
2	I	1936	LEU	3.1
2	I	1234	ILE	3.1
2	J	1053	ILE	3.1
2	K	227	ILE	3.1
2	G	32	GLU	3.1
2	L	1126	GLU	3.1
2	G	45	ALA	3.1
2	G	176	GLN	3.1
2	K	986	LEU	3.1
2	K	364	HIS	3.1
2	K	1030	PHE	3.1
2	J	598	LEU	3.1
2	L	190	TYR	3.1
2	L	255	LEU	3.1
2	J	589	PHE	3.1
2	K	1090	ILE	3.1
2	K	1818	PHE	3.1
2	H	1883	MET	3.1
2	L	1994	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
2	K	951	ILE	3.1
1	B	778	LEU	3.1
2	H	1244	LEU	3.1
2	K	297	THR	3.1
2	L	1246	LEU	3.1
2	G	109	PHE	3.1
2	J	740	ILE	3.1
2	J	1350	ILE	3.1
2	H	1620	VAL	3.1
2	L	293	ALA	3.1
2	I	1481	ILE	3.1
2	H	603	VAL	3.1
1	E	18	LEU	3.1
2	K	661	ASN	3.1
2	K	694	ALA	3.1
2	L	178	ASN	3.1
2	H	1350	ILE	3.1
1	C	9	LEU	3.1
2	G	815	ARG	3.1
2	H	99	LEU	3.1
2	H	1692	TYR	3.0
2	J	791	TYR	3.0
2	J	1176	PHE	3.0
2	G	761	ILE	3.0
2	J	501	TRP	3.0
2	L	1234	ILE	3.0
2	L	1347	ASP	3.0
2	K	1028	VAL	3.0
2	H	208	LEU	3.0
2	K	1246	LEU	3.0
2	G	487	ILE	3.0
2	H	38	PRO	3.0
2	H	1361	ILE	3.0
1	A	77	GLN	3.0
2	K	1065	CYS	3.0
2	G	664	TYR	3.0
2	I	1348	PHE	3.0
2	K	717	LYS	3.0
2	L	294	ALA	3.0
2	J	284	GLY	3.0
2	L	180	GLU	3.0
2	K	1225	SER	3.0

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Mol	Chain	Res	Type	RSRZ
1	F	1460	PRO	3.0
2	H	2010	LEU	3.0
2	L	631	ALA	3.0
2	H	1429	VAL	3.0
2	L	1141	LYS	3.0
2	H	1067	LEU	3.0
2	K	1939	LEU	3.0
1	E	1220	ASN	3.0
1	E	560	LYS	3.0
2	K	1336	VAL	3.0
2	K	1374	VAL	3.0
2	L	260	HIS	3.0
2	L	581	VAL	3.0
1	B	1274	LYS	3.0
2	G	1841	TYR	3.0
2	G	390	VAL	3.0
2	J	935	VAL	3.0
2	K	1031	VAL	3.0
2	L	1693	VAL	3.0
2	J	578	PRO	3.0
2	J	33	PHE	3.0
2	H	1919	ASN	3.0
2	K	119	VAL	3.0
2	L	1599	TYR	3.0
1	D	1574	LEU	3.0
2	G	1969	LEU	3.0
2	I	1395	LEU	3.0
2	K	437	ALA	3.0
2	K	674	ILE	3.0
2	L	1055	ALA	3.0
2	L	630	LEU	3.0
2	L	1619	LEU	3.0
2	L	1261	PHE	3.0
2	H	32	GLU	3.0
2	K	791	TYR	3.0
1	D	9	LEU	3.0
2	G	113	PHE	3.0
2	K	47	GLN	3.0
2	K	1777	THR	3.0
1	C	954	ARG	2.9
2	L	1885	ALA	2.9
2	G	1943	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
2	H	1490	PHE	2.9
2	I	627	HIS	2.9
2	K	512	HIS	2.9
2	J	1401	ILE	2.9
1	A	1554	LEU	2.9
1	E	963	LEU	2.9
2	J	1915	LEU	2.9
2	L	1289	TYR	2.9
2	J	304	PHE	2.9
2	G	376	ARG	2.9
2	H	166	ASN	2.9
1	B	608	LYS	2.9
1	E	569	LEU	2.9
1	E	577	LEU	2.9
2	I	1195	LEU	2.9
2	J	147	ALA	2.9
2	J	1920	TYR	2.9
2	K	217	ALA	2.9
1	E	1619	ALA	2.9
2	K	1349	ALA	2.9
1	D	541	VAL	2.9
1	E	558	LEU	2.9
2	G	514	VAL	2.9
2	I	628	ILE	2.9
2	K	2050	ILE	2.9
1	F	22	PHE	2.9
2	G	629	GLU	2.9
2	K	808	ASP	2.9
1	A	424	VAL	2.9
2	L	1904	VAL	2.9
2	I	1032	PRO	2.9
2	J	757	PHE	2.9
2	J	91	ASP	2.9
2	J	1999	ARG	2.9
2	K	1667	VAL	2.9
2	L	1914	LEU	2.9
2	G	791	TYR	2.9
2	I	1433	PHE	2.9
2	I	1930	ALA	2.9
2	J	1263	PHE	2.9
2	L	1345	PRO	2.9
2	L	1730	TYR	2.9

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Mol	Chain	Res	Type	RSRZ
2	G	297	THR	2.9
2	G	645	ILE	2.9
2	H	22	ARG	2.9
2	H	1366	ILE	2.9
1	C	75	GLN	2.9
2	I	287	GLN	2.9
2	I	1954	GLN	2.9
2	J	843	TRP	2.9
1	A	42	GLU	2.9
2	J	1029	PRO	2.9
1	D	1287	LEU	2.9
2	J	36	LEU	2.9
2	J	318	ILE	2.9
2	K	691	THR	2.9
2	L	611	THR	2.9
1	D	566	PHE	2.9
2	J	2055	PHE	2.9
2	L	1324	PHE	2.9
1	F	742	TYR	2.9
2	J	2077	TYR	2.9
2	G	382	LEU	2.9
2	I	467	ILE	2.9
2	I	1998	LEU	2.9
2	K	494	ILE	2.9
2	L	860	GLU	2.9
1	F	18	LEU	2.9
2	G	518	PRO	2.9
2	I	1488	LEU	2.9
2	I	1429	VAL	2.8
2	J	777	VAL	2.8
2	K	455	VAL	2.8
2	L	80	ILE	2.8
2	J	1016	PHE	2.8
2	K	1124	THR	2.8
2	G	601	PRO	2.8
2	K	602	PRO	2.8
2	G	617	PHE	2.8
2	J	1116	PHE	2.8
2	L	617	PHE	2.8
1	E	578	ALA	2.8
2	G	472	THR	2.8
2	K	307	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
1	D	800	PRO	2.8
2	K	85	HIS	2.8
2	L	1836	HIS	2.8
2	I	311	ALA	2.8
1	C	1517	LEU	2.8
2	H	255	LEU	2.8
2	L	2013	GLY	2.8
2	L	42	HIS	2.8
2	K	1903	VAL	2.8
2	J	758	HIS	2.8
2	L	38	PRO	2.8
1	A	656	LEU	2.8
1	F	75	GLN	2.8
2	J	258	LEU	2.8
2	L	1921	ASN	2.8
2	K	264	THR	2.8
2	K	499	VAL	2.8
2	L	1357	ILE	2.8
2	G	690	LEU	2.8
2	L	1805	PHE	2.8
2	G	282	THR	2.8
2	H	742	GLN	2.8
2	H	201	ILE	2.8
2	J	1891	ILE	2.8
2	G	505	THR	2.8
2	I	1916	GLU	2.8
2	K	2062	THR	2.8
1	D	799	LEU	2.8
2	I	2035	LEU	2.8
1	E	1226	VAL	2.8
1	F	78	ILE	2.8
2	I	286	SER	2.8
2	H	588	THR	2.8
2	L	2077	TYR	2.8
1	A	566	PHE	2.8
2	J	1988	GLN	2.8
1	D	1492	GLU	2.8
2	I	717	LYS	2.8
2	H	1419	LEU	2.8
2	K	1371	LEU	2.8
2	J	1204	VAL	2.8
2	K	376	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
2	L	716	PHE	2.8
2	G	513	ILE	2.8
2	H	1164	ILE	2.8
1	C	20	TYR	2.8
2	H	1834	ALA	2.8
2	J	631	ALA	2.8
2	G	605	VAL	2.8
2	H	39	THR	2.8
2	J	745	GLY	2.8
2	K	809	GLY	2.8
2	H	183	PHE	2.8
2	L	1144	TYR	2.8
2	G	105	ILE	2.7
2	I	180	GLU	2.7
2	G	604	MET	2.7
2	H	719	GLY	2.7
1	E	94	PRO	2.7
2	G	258	LEU	2.7
2	H	258	LEU	2.7
2	I	331	LEU	2.7
2	G	381	SER	2.7
2	L	140	TYR	2.7
1	C	552	ILE	2.7
2	K	1357	ILE	2.7
1	D	1274	LYS	2.7
2	J	1456	LEU	2.7
2	L	152	LYS	2.7
2	L	171	SER	2.7
1	B	963	LEU	2.7
2	G	1200	ARG	2.7
2	J	1969	LEU	2.7
1	C	1461	PHE	2.7
1	A	570	TYR	2.7
2	L	687	ILE	2.7
2	H	1122	LYS	2.7
2	K	223	LYS	2.7
2	I	252	LEU	2.7
2	I	816	MET	2.7
2	I	1805	PHE	2.7
2	I	606	ALA	2.7
2	H	376	ARG	2.7
2	I	1350	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
2	I	541	LEU	2.7
2	K	1732	PHE	2.7
2	H	635	TYR	2.7
2	K	182	TYR	2.7
2	L	537	VAL	2.7
2	G	1589	PRO	2.7
2	L	1969	LEU	2.7
2	L	1620	VAL	2.7
2	J	140	TYR	2.7
1	B	583	GLN	2.7
2	J	792	LEU	2.7
2	K	1488	LEU	2.7
2	H	2004	PRO	2.7
2	L	23	PRO	2.7
2	K	90	GLY	2.7
2	I	1451	GLU	2.7
2	K	1472	TRP	2.7
2	J	105	ILE	2.7
2	I	926	LEU	2.7
2	K	382	LEU	2.7
2	L	75	LEU	2.7
2	J	526	VAL	2.7
1	A	1538	ILE	2.7
1	C	28	TRP	2.7
2	G	1164	ILE	2.7
2	G	910	PHE	2.7
2	I	173	PHE	2.7
2	J	328	ARG	2.7
2	L	2043	VAL	2.7
2	J	265	CYS	2.7
2	K	253	ILE	2.7
2	H	478	LEU	2.7
2	L	1488	LEU	2.7
1	D	1506	ALA	2.7
2	L	865	ILE	2.7
2	L	1399	ALA	2.7
2	G	1939	LEU	2.6
2	L	690	LEU	2.6
2	K	1770	ASN	2.6
2	G	782	PHE	2.6
2	H	526	VAL	2.6
2	H	1835	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
2	J	1202	MET	2.6
2	L	1926	GLN	2.6
1	D	756	ILE	2.6
2	G	774	ILE	2.6
2	J	865	ILE	2.6
2	K	325	ALA	2.6
2	L	1350	ILE	2.6
1	F	799	LEU	2.6
2	L	231	LEU	2.6
2	L	677	LEU	2.6
2	L	1244	LEU	2.6
2	L	1371	LEU	2.6
2	L	1335	PHE	2.6
1	C	39	LYS	2.6
2	G	1068	GLN	2.6
2	H	1697	GLN	2.6
2	K	1224	GLN	2.6
2	H	28	HIS	2.6
2	H	1034	LEU	2.6
2	H	1619	LEU	2.6
2	L	597	LEU	2.6
2	K	501	TRP	2.6
2	I	1947	LYS	2.6
2	J	1804	GLN	2.6
1	E	1612	ILE	2.6
1	F	777	LEU	2.6
2	I	276	LEU	2.6
2	I	558	LEU	2.6
2	K	1856	LEU	2.6
2	L	208	LEU	2.6
2	I	1993	PHE	2.6
2	J	512	HIS	2.6
2	K	1048	TRP	2.6
2	H	604	MET	2.6
2	I	808	ASP	2.6
2	G	1066	ILE	2.6
2	H	1998	LEU	2.6
2	K	122	ILE	2.6
2	K	744	THR	2.6
2	G	272	PRO	2.6
2	L	789	TYR	2.6
2	I	175	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	1441	LEU	2.6
1	E	545	LEU	2.6
2	L	724	ILE	2.6
2	J	293	ALA	2.6
2	K	78	ARG	2.6
2	G	603	VAL	2.6
2	I	557	GLU	2.6
2	I	1844	LEU	2.6
2	J	563	ASP	2.6
2	L	1366	ILE	2.6
1	D	1632	ALA	2.6
1	B	1318	PHE	2.6
2	G	611	THR	2.6
2	I	1793	TYR	2.6
2	J	619	ALA	2.6
2	H	383	VAL	2.6
2	J	174	GLY	2.6
2	G	1838	LEU	2.6
2	K	1234	ILE	2.6
2	J	557	GLU	2.6
2	J	775	VAL	2.6
2	K	1869	VAL	2.6
1	A	1578	LEU	2.6
2	G	352	SER	2.6
2	K	193	TYR	2.6
2	G	660	VAL	2.6
2	H	521	VAL	2.6
2	K	746	GLY	2.6
1	D	853	MET	2.6
1	F	76	ARG	2.6
2	G	24	LEU	2.6
2	I	1915	LEU	2.6
2	L	26	LEU	2.6
2	H	43	PHE	2.6
2	H	1324	PHE	2.6
2	I	1732	PHE	2.6
2	K	439	PHE	2.6
2	L	1596	PHE	2.6
1	D	863	VAL	2.6
2	H	783	GLY	2.6
2	H	1227	LYS	2.6
2	H	1032	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
2	K	96	PRO	2.6
1	E	1425	LEU	2.6
2	G	1844	LEU	2.6
1	A	78	ILE	2.6
1	D	75	GLN	2.6
2	J	1293	TRP	2.6
2	G	694	ALA	2.6
1	C	648	LEU	2.6
2	K	1032	PRO	2.6
2	L	1606	ILE	2.6
2	G	35	PHE	2.5
2	I	1473	PHE	2.5
2	J	311	ALA	2.5
2	K	399	TYR	2.5
2	G	356	LEU	2.5
2	K	1244	LEU	2.5
1	F	1	MET	2.5
2	H	1891	ILE	2.5
2	L	169	ILE	2.5
2	J	297	THR	2.5
1	F	43	ARG	2.5
2	K	813	GLY	2.5
1	C	551	LEU	2.5
2	I	75	LEU	2.5
2	I	1467	LEU	2.5
2	I	1745	LEU	2.5
2	J	1571	LEU	2.5
2	H	2070	ILE	2.5
2	J	617	PHE	2.5
2	J	1273	PRO	2.5
1	F	20	TYR	2.5
2	K	712	ARG	2.5
2	H	72	VAL	2.5
2	J	1061	VAL	2.5
2	H	372	LEU	2.5
2	I	1563	LEU	2.5
2	I	169	ILE	2.5
2	K	812	PHE	2.5
2	K	1734	ILE	2.5
2	L	279	PHE	2.5
2	I	603	VAL	2.5
2	I	1068	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
2	I	1336	VAL	2.5
2	J	255	LEU	2.5
1	D	743	VAL	2.5
1	D	1633	GLN	2.5
2	I	1326	HIS	2.5
2	I	2046	LYS	2.5
2	K	197	VAL	2.5
2	G	1371	LEU	2.5
2	I	1939	LEU	2.5
1	F	552	ILE	2.5
2	G	427	ARG	2.5
2	H	810	CYS	2.5
2	J	2001	ILE	2.5
2	G	19	GLN	2.5
2	H	167	VAL	2.5
2	H	466	VAL	2.5
2	L	1844	LEU	2.5
2	L	1884	CYS	2.5
2	I	1761	TYR	2.5
2	J	694	ALA	2.5
2	K	394	PRO	2.5
2	K	1693	VAL	2.5
2	G	1456	LEU	2.5
2	I	1812	LEU	2.5
2	J	1371	LEU	2.5
2	L	868	LEU	2.5
2	H	535	THR	2.5
2	J	227	ILE	2.5
2	K	1945	ILE	2.5
2	K	1570	GLU	2.5
2	I	1305	LEU	2.5
2	L	265	CYS	2.5
2	H	27	THR	2.5
2	H	1357	ILE	2.5
2	I	692	ILE	2.5
2	I	1227	LYS	2.5
2	J	263	ILE	2.5
2	J	1945	ILE	2.5
2	K	396	ILE	2.5
2	L	2049	GLU	2.5
1	E	20	TYR	2.5
2	G	174	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
2	G	558	LEU	2.5
2	H	762	LEU	2.5
2	I	312	VAL	2.5
2	H	1160	PHE	2.5
2	L	204	ILE	2.5
2	G	277	GLU	2.5
1	A	558	LEU	2.5
2	J	90	GLY	2.5
2	J	1395	LEU	2.5
2	H	516	PHE	2.5
2	L	1680	GLN	2.5
2	I	1405	ILE	2.5
1	E	570	TYR	2.5
2	G	275	LEU	2.5
2	I	1600	ALA	2.5
2	K	1123	ALA	2.5
2	K	1743	LYS	2.5
2	I	1596	PHE	2.5
1	A	59	ARG	2.5
2	K	1772	ASP	2.5
2	I	1126	GLU	2.5
1	B	1637	VAL	2.4
1	A	1344	THR	2.4
2	H	2039	TYR	2.4
2	I	1435	TYR	2.4
2	J	1504	TYR	2.4
2	L	304	PHE	2.4
1	A	681	ILE	2.4
1	E	42	GLU	2.4
2	I	1066	ILE	2.4
1	B	837	LEU	2.4
1	E	841	GLY	2.4
2	I	1456	LEU	2.4
2	L	2035	LEU	2.4
2	G	439	PHE	2.4
2	H	1841	TYR	2.4
1	F	88	ILE	2.4
2	K	32	GLU	2.4
2	K	714	ILE	2.4
2	I	1867	MET	2.4
1	A	541	VAL	2.4
1	F	1267	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
2	H	655	GLY	2.4
2	G	1361	ILE	2.4
2	H	486	ILE	2.4
2	K	718	PRO	2.4
2	I	275	LEU	2.4
2	L	1540	VAL	2.4
2	H	743	TRP	2.4
2	K	43	PHE	2.4
2	L	2054	TYR	2.4
2	I	742	GLN	2.4
2	J	768	ILE	2.4
2	L	2061	LEU	2.4
1	A	1489	PHE	2.4
2	K	2074	TRP	2.4
2	J	518	PRO	2.4
2	K	39	THR	2.4
2	K	98	ASN	2.4
2	I	1914	LEU	2.4
2	I	284	GLY	2.4
2	J	1417	GLY	2.4
2	K	83	VAL	2.4
2	L	1859	VAL	2.4
1	D	20	TYR	2.4
2	G	810	CYS	2.4
2	I	1160	PHE	2.4
2	G	876	TRP	2.4
2	L	1340	LYS	2.4
1	C	1556	ILE	2.4
1	D	78	ILE	2.4
2	I	883	ILE	2.4
2	I	1242	ILE	2.4
2	K	352	SER	2.4
1	B	1361	VAL	2.4
1	D	1642	LEU	2.4
1	F	1503	LEU	2.4
2	J	594	MET	2.4
2	K	792	LEU	2.4
2	K	1571	LEU	2.4
2	I	1230	LYS	2.4
2	K	1070	PRO	2.4
2	J	1761	TYR	2.4
2	L	1842	SER	2.4

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Mol	Chain	Res	Type	RSRZ
2	I	1175	MET	2.4
2	L	1202	MET	2.4
2	H	611	THR	2.4
2	K	659	THR	2.4
2	G	1349	ALA	2.4
2	I	1356	ALA	2.4
2	L	1929	ALA	2.4
2	G	169	ILE	2.4
2	I	1366	ILE	2.4
1	F	778	LEU	2.4
2	H	558	LEU	2.4
2	J	104	LEU	2.4
2	K	1805	PHE	2.4
2	I	602	PRO	2.4
2	H	1144	TYR	2.4
2	I	1268	GLU	2.4
2	I	172	ILE	2.4
1	A	18	LEU	2.4
1	F	1519	VAL	2.4
2	G	393	GLY	2.4
2	H	1038	PHE	2.4
2	J	1339	GLY	2.4
2	J	1144	TYR	2.4
2	K	542	ALA	2.4
1	B	1538	ILE	2.4
1	D	844	ILE	2.4
2	H	1917	ILE	2.4
2	L	1066	ILE	2.4
2	H	527	LEU	2.4
2	L	514	VAL	2.4
1	A	553	ARG	2.4
2	J	2005	PHE	2.4
2	G	1734	ILE	2.4
2	I	1924	ASN	2.4
2	H	1936	LEU	2.4
2	K	621	THR	2.4
2	J	873	VAL	2.3
2	J	1616	VAL	2.3
2	K	1309	PHE	2.3
2	K	557	GLU	2.3
2	L	1227	LYS	2.3
2	H	247	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
2	H	292	ALA	2.3
1	E	422	LEU	2.3
2	H	690	LEU	2.3
2	I	204	ILE	2.3
2	I	711	ILE	2.3
2	J	1033	ALA	2.3
2	K	38	PRO	2.3
2	L	2039	TYR	2.3
2	J	331	LEU	2.3
2	I	777	VAL	2.3
2	J	1071	VAL	2.3
2	J	1358	THR	2.3
2	K	609	THR	2.3
2	L	1436	ARG	2.3
1	E	1669	PHE	2.3
1	F	1461	PHE	2.3
2	L	1433	PHE	2.3
2	H	816	MET	2.3
1	B	90	TYR	2.3
1	C	545	LEU	2.3
1	D	775	LEU	2.3
1	E	340	LEU	2.3
2	H	435	ILE	2.3
2	J	351	LEU	2.3
2	K	1087	LEU	2.3
2	L	1192	LEU	2.3
1	E	48	GLY	2.3
2	I	76	VAL	2.3
2	K	1886	VAL	2.3
2	G	816	MET	2.3
2	H	1175	MET	2.3
2	I	594	MET	2.3
2	I	688	GLU	2.3
2	J	1127	GLU	2.3
2	J	1427	MET	2.3
1	D	552	ILE	2.3
1	E	839	ILE	2.3
2	J	294	ALA	2.3
2	K	481	LEU	2.3
2	L	331	LEU	2.3
2	G	607	GLY	2.3
2	I	49	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
2	J	749	GLY	2.3
2	J	860	GLU	2.3
1	E	14	LEU	2.3
1	F	90	TYR	2.3
2	G	631	ALA	2.3
2	G	1195	LEU	2.3
2	G	1936	LEU	2.3
2	I	1571	LEU	2.3
2	G	76	VAL	2.3
2	G	867	LYS	2.3
2	G	1325	VAL	2.3
2	I	73	VAL	2.3
2	J	1038	PHE	2.3
2	L	466	VAL	2.3
2	L	603	VAL	2.3
2	I	750	GLY	2.3
2	G	692	ILE	2.3
2	H	1989	LEU	2.3
2	J	879	LEU	2.3
2	H	757	PHE	2.3
2	H	1232	VAL	2.3
2	K	993	VAL	2.3
2	K	1827	VAL	2.3
2	K	749	GLY	2.3
2	L	1032	PRO	2.3
1	B	28	TRP	2.3
2	G	626	TYR	2.3
2	I	1125	ASP	2.3
2	K	353	ILE	2.3
2	K	1047	LEU	2.3
2	L	741	LEU	2.3
2	I	1050	SER	2.3
2	K	1774	SER	2.3
2	J	882	LYS	2.3
1	A	778	LEU	2.3
2	G	486	ILE	2.3
2	G	868	LEU	2.3
2	K	287	GLN	2.3
2	L	102	LEU	2.3
2	I	1635	TYR	2.3
2	G	491	VAL	2.3
2	G	1490	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
2	J	290	VAL	2.3
2	I	817	MET	2.3
2	G	401	LEU	2.3
2	H	275	LEU	2.3
2	J	225	LEU	2.3
2	J	1195	LEU	2.3
2	L	879	LEU	2.3
2	J	743	TRP	2.3
2	H	1433	PHE	2.3
2	I	283	THR	2.3
2	J	505	THR	2.3
2	J	1805	PHE	2.3
2	L	812	PHE	2.3
2	L	350	MET	2.3
1	A	963	LEU	2.3
2	J	285	HIS	2.3
2	J	902	ILE	2.3
2	L	1206	ILE	2.3
2	L	1326	HIS	2.3
1	D	1209	PHE	2.3
2	G	1348	PHE	2.3
2	H	1833	PHE	2.3
2	I	1324	PHE	2.3
2	K	2017	PHE	2.3
1	C	804	ASN	2.3
2	G	755	GLU	2.3
2	H	1128	PRO	2.3
2	K	99	LEU	2.3
2	K	408	VAL	2.3
2	K	1289	TYR	2.3
2	G	788	THR	2.3
1	E	656	LEU	2.3
2	G	1915	LEU	2.3
2	H	1997	PRO	2.3
2	I	986	LEU	2.3
2	K	816	MET	2.3
2	K	1799	LEU	2.3
1	D	1556	ILE	2.3
2	H	540	ILE	2.3
2	I	663	ILE	2.3
2	G	1954	GLN	2.3
2	H	1902	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
2	I	1949	GLN	2.3
2	J	826	LYS	2.3
2	J	167	VAL	2.3
2	K	559	PHE	2.3
2	J	260	HIS	2.3
2	K	775	VAL	2.3
2	H	876	TRP	2.2
2	J	520	GLY	2.2
1	C	799	LEU	2.2
1	D	1554	LEU	2.2
1	E	1517	LEU	2.2
2	G	1956	LEU	2.2
2	I	690	LEU	2.2
2	K	1427	MET	2.2
2	L	1679	LEU	2.2
2	G	201	ILE	2.2
2	I	740	ILE	2.2
2	K	761	ILE	2.2
1	A	742	TYR	2.2
1	C	573	VAL	2.2
2	H	1910	VAL	2.2
1	A	1520	ALA	2.2
2	I	261	TYR	2.2
2	K	1651	VAL	2.2
2	J	519	GLY	2.2
2	G	1357	ILE	2.2
2	J	711	ILE	2.2
2	K	1294	PHE	2.2
2	L	1401	ILE	2.2
2	I	1904	VAL	2.2
2	K	2058	VAL	2.2
1	F	551	LEU	2.2
2	G	1411	LYS	2.2
2	H	709	LEU	2.2
2	J	1653	LEU	2.2
1	F	24	MET	2.2
2	I	807	PHE	2.2
2	K	2048	PHE	2.2
2	G	248	VAL	2.2
2	G	695	GLY	2.2
2	H	1599	TYR	2.2
2	I	140	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
2	I	1200	ARG	2.2
1	D	1303	LEU	2.2
2	G	1225	SER	2.2
2	K	215	TRP	2.2
1	F	908	ILE	2.2
2	I	1038	PHE	2.2
2	I	1204	VAL	2.2
2	J	1643	VAL	2.2
2	L	487	ILE	2.2
1	C	43	ARG	2.2
2	H	2077	TYR	2.2
2	K	149	ARG	2.2
2	K	495	THR	2.2
2	L	267	THR	2.2
1	C	79	LEU	2.2
2	L	1133	LEU	2.2
1	B	584	ILE	2.2
1	C	908	ILE	2.2
1	E	863	VAL	2.2
2	G	101	VAL	2.2
2	G	663	ILE	2.2
2	J	1987	VAL	2.2
2	K	552	VAL	2.2
2	K	1917	ILE	2.2
2	L	566	VAL	2.2
2	H	140	TYR	2.2
2	H	532	LYS	2.2
2	H	528	THR	2.2
2	H	1615	ALA	2.2
2	J	543	GLY	2.2
2	K	505	THR	2.2
2	K	588	THR	2.2
1	A	1574	LEU	2.2
1	B	740	LEU	2.2
1	C	14	LEU	2.2
2	I	1826	LEU	2.2
2	J	810	CYS	2.2
1	D	28	TRP	2.2
2	K	1094	HIS	2.2
2	H	172	ILE	2.2
2	H	589	PHE	2.2
2	I	1766	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	1379	VAL	2.2
2	H	605	VAL	2.2
2	H	1942	VAL	2.2
2	J	451	ILE	2.2
2	J	460	ILE	2.2
2	J	1769	VAL	2.2
1	D	745	PRO	2.2
1	B	79	LEU	2.2
1	E	799	LEU	2.2
1	F	1673	LEU	2.2
2	H	1358	THR	2.2
2	H	1926	GLN	2.2
2	L	606	ALA	2.2
2	J	478	LEU	2.2
2	L	368	THR	2.2
2	G	512	HIS	2.2
2	H	815	ARG	2.2
2	I	811	MET	2.2
1	A	797	VAL	2.2
2	L	1130	ILE	2.2
2	I	171	SER	2.2
2	J	100	GLU	2.2
2	K	1288	PHE	2.2
2	I	227	ILE	2.2
2	J	2050	ILE	2.2
2	L	73	VAL	2.2
2	L	594	MET	2.2
2	G	1051	GLU	2.2
2	L	1857	VAL	2.2
2	H	265	CYS	2.2
2	J	141	TYR	2.2
1	C	1574	LEU	2.2
1	F	1287	LEU	2.2
2	G	320	LEU	2.2
2	J	1087	LEU	2.2
2	L	1016	PHE	2.2
2	J	1234	ILE	2.2
2	L	501	TRP	2.2
2	L	1850	VAL	2.2
2	L	1942	VAL	2.2
2	I	2000	GLY	2.2
2	I	22	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
2	I	1235	LYS	2.2
2	J	541	LEU	2.2
2	J	941	LEU	2.2
2	L	465	LEU	2.2
2	L	1389	LEU	2.2
2	H	19	GLN	2.2
1	A	22	PHE	2.2
1	E	35	ILE	2.2
2	G	714	ILE	2.2
2	L	435	ILE	2.2
2	L	1883	MET	2.2
2	J	796	TRP	2.2
1	A	655	ALA	2.2
1	C	577	LEU	2.2
1	C	655	ALA	2.2
1	D	1142	LEU	2.2
2	G	1692	TYR	2.2
2	H	776	LEU	2.2
2	H	926	LEU	2.2
2	L	186	LEU	2.2
1	E	1461	PHE	2.2
2	J	52	PHE	2.2
2	L	1888	PRO	2.2
2	L	1895	PHE	2.2
1	B	45	VAL	2.2
2	H	469	VAL	2.2
2	J	1175	MET	2.2
2	L	1429	VAL	2.2
1	C	554	ARG	2.2
2	H	1456	LEU	2.1
2	H	1467	LEU	2.1
2	I	53	LEU	2.1
2	K	1969	LEU	2.1
2	L	228	LEU	2.1
2	L	1800	LEU	2.1
2	K	45	ALA	2.1
2	G	963	ILE	2.1
2	H	468	PRO	2.1
2	J	1480	ASP	2.1
2	K	815	ARG	2.1
2	K	1850	VAL	2.1
2	L	663	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
2	L	1903	VAL	2.1
2	L	2014	VAL	2.1
2	K	1069	GLY	2.1
1	A	61	LEU	2.1
1	B	1443	LEU	2.1
2	H	104	LEU	2.1
2	I	258	LEU	2.1
2	J	776	LEU	2.1
2	K	443	TYR	2.1
2	L	1612	THR	2.1
1	D	1625	PHE	2.1
2	L	782	PHE	2.1
2	H	935	VAL	2.1
2	H	1051	GLU	2.1
2	J	540	ILE	2.1
2	K	103	LYS	2.1
2	K	489	GLU	2.1
2	L	1590	ILE	2.1
1	C	585	MET	2.1
2	K	519	GLY	2.1
2	L	177	GLY	2.1
1	F	28	TRP	2.1
2	G	293	ALA	2.1
2	G	757	PHE	2.1
2	L	311	ALA	2.1
2	L	744	THR	2.1
2	K	1361	ILE	2.1
2	L	101	VAL	2.1
2	J	817	MET	2.1
2	J	1246	LEU	2.1
2	L	1826	LEU	2.1
2	J	310	ARG	2.1
2	J	1895	PHE	2.1
2	K	472	THR	2.1
2	K	899	ARG	2.1
2	H	289	ILE	2.1
2	H	590	VAL	2.1
2	H	628	ILE	2.1
2	J	714	ILE	2.1
2	K	1241	GLU	2.1
1	B	745	PRO	2.1
2	G	677	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	557	ARG	2.1
1	C	1274	LYS	2.1
2	J	962	PHE	2.1
1	C	680	VAL	2.1
2	G	1903	VAL	2.1
2	K	166	ASN	2.1
2	H	865	ILE	2.1
2	J	1065	CYS	2.1
2	K	513	ILE	2.1
2	K	2070	ILE	2.1
2	L	609	THR	2.1
2	L	1891	ILE	2.1
2	L	1953	ILE	2.1
2	G	776	LEU	2.1
2	K	783	GLY	2.1
2	I	434	PRO	2.1
2	K	858	LEU	2.1
2	K	962	PHE	2.1
2	L	2011	ARG	2.1
2	J	1902	TYR	2.1
1	A	1553	VAL	2.1
2	I	1747	VAL	2.1
2	K	1531	GLU	2.1
2	J	628	ILE	2.1
2	J	1366	ILE	2.1
2	L	455	VAL	2.1
2	H	58	GLN	2.1
2	L	824	THR	2.1
2	G	1244	LEU	2.1
2	I	1246	LEU	2.1
2	I	1856	LEU	2.1
2	J	1867	MET	2.1
2	L	986	LEU	2.1
1	D	1461	PHE	2.1
1	F	81	TYR	2.1
2	G	1535	SER	2.1
2	K	1841	TYR	2.1
2	K	2075	ASP	2.1
2	H	1859	VAL	2.1
2	K	914	TRP	2.1
2	L	291	VAL	2.1
1	C	555	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
2	G	691	THR	2.1
2	I	1653	LEU	2.1
2	K	742	GLN	2.1
2	L	376	ARG	2.1
2	L	2010	LEU	2.1
2	H	1596	PHE	2.1
2	I	139	ALA	2.1
2	L	193	TYR	2.1
2	J	629	GLU	2.1
1	A	839	ILE	2.1
1	F	1226	VAL	2.1
2	G	1234	ILE	2.1
2	G	1951	ILE	2.1
2	I	902	ILE	2.1
1	B	1303	LEU	2.1
1	C	1554	LEU	2.1
2	G	143	GLY	2.1
2	H	861	MET	2.1
1	E	22	PHE	2.1
2	K	737	PHE	2.1
2	K	1231	THR	2.1
2	L	2020	PHE	2.1
2	J	447	ALA	2.1
2	L	296	ALA	2.1
1	C	557	ARG	2.1
1	D	908	ILE	2.1
2	G	1871	VAL	2.1
2	H	204	ILE	2.1
2	H	291	VAL	2.1
2	K	814	SER	2.1
1	E	36	LEU	2.1
1	F	9	LEU	2.1
1	B	332	GLN	2.1
2	K	1867	MET	2.1
1	A	1623	THR	2.1
2	J	824	THR	2.1
2	L	1906	ASN	2.1
2	J	1040	TYR	2.1
1	A	1226	VAL	2.1
2	H	645	ILE	2.1
1	A	9	LEU	2.1
1	A	837	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	774	LEU	2.1
1	D	778	LEU	2.1
2	K	2061	LEU	2.1
1	A	708	GLN	2.1
2	J	568	PHE	2.1
2	J	1068	GLN	2.1
2	J	1479	HIS	2.1
2	I	1016	PHE	2.1
2	H	1920	TYR	2.1
2	J	1887	ASN	2.1
1	B	573	VAL	2.1
2	I	1349	ALA	2.1
2	K	687	ILE	2.1
2	L	1370	LEU	2.1
1	D	451	HIS	2.1
2	I	58	GLN	2.0
2	H	308	ALA	2.0
2	K	1627	ASN	2.0
2	L	1509	THR	2.0
1	B	1266	LEU	2.0
1	C	681	ILE	2.0
1	D	1503	LEU	2.0
1	E	1148	LEU	2.0
2	J	1492	LEU	2.0
2	J	1679	LEU	2.0
2	L	1589	PRO	2.0
2	H	262	MET	2.0
2	K	1375	HIS	2.0
2	K	1966	ARG	2.0
2	L	1172	ARG	2.0
2	L	185	GLU	2.0
2	L	1916	GLU	2.0
1	E	573	VAL	2.0
2	J	1730	TYR	2.0
2	K	256	VAL	2.0
2	K	838	VAL	2.0
2	K	1435	TYR	2.0
1	F	681	ILE	2.0
1	D	1225	GLY	2.0
2	G	1962	LEU	2.0
2	I	1130	ILE	2.0
2	I	1746	THR	2.0

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Mol	Chain	Res	Type	RSRZ
2	J	38	PRO	2.0
2	J	741	LEU	2.0
2	J	1373	LEU	2.0
2	J	1444	ASN	2.0
2	L	2048	PHE	2.0
1	C	586	GLN	2.0
2	G	753	SER	2.0
1	B	1418	ILE	2.0
1	C	1380	ALA	2.0
1	E	17	LEU	2.0
2	G	433	LEU	2.0
2	G	544	ALA	2.0
2	L	1902	TYR	2.0
2	G	1122	LYS	2.0
2	I	1163	LEU	2.0
2	J	314	LEU	2.0
2	L	1734	ILE	2.0
2	J	657	GLY	2.0
2	G	1016	PHE	2.0
2	H	641	MET	2.0
1	C	45	VAL	2.0
2	G	857	VAL	2.0
2	G	1321	VAL	2.0
2	G	1620	VAL	2.0
2	I	291	VAL	2.0
2	K	1061	VAL	2.0
1	C	1506	ALA	2.0
2	G	102	LEU	2.0
2	I	147	ALA	2.0
2	I	1624	ALA	2.0
2	K	373	PRO	2.0
1	A	1382	THR	2.0
2	K	107	ASN	2.0
2	I	1886	VAL	2.0
2	J	660	VAL	2.0
2	J	1034	LEU	2.0
2	K	509	ASP	2.0
2	K	715	SER	2.0
2	L	182	TYR	2.0
2	L	1663	LYS	2.0
1	D	801	LEU	2.0
1	E	1450	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
2	L	1448	ARG	2.0
2	K	183	PHE	2.0
2	I	430	ASN	2.0
2	L	505	THR	2.0
2	L	1919	ASN	2.0
1	A	1291	TYR	2.0
1	B	58	ARG	2.0
1	B	1607	TYR	2.0
1	C	740	LEU	2.0
1	D	774	LEU	2.0
1	E	1574	LEU	2.0
2	H	997	LEU	2.0
2	I	1692	TYR	2.0
2	I	1989	LEU	2.0
2	J	537	VAL	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
3	NAP	B	1901	48/48	0.92	0.32	0.43	23,78,115,145	0
3	NAP	A	1901	48/48	0.90	0.32	0.34	19,76,121,169	0
3	NAP	F	1901	48/48	0.87	0.31	0.30	19,78,125,159	0
3	NAP	C	1901	48/48	0.87	0.34	0.17	23,81,130,171	0
3	NAP	D	1901	48/48	0.87	0.34	0.14	21,83,127,174	0
3	NAP	L	2102	48/48	0.93	0.31	-0.06	37,84,116,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	NAP	K	2102	48/48	0.90	0.29	-0.33	43,94,127,131	0
3	NAP	E	1901	48/48	0.93	0.26	-0.39	24,77,123,157	0
4	FMN	J	2101	31/31	0.94	0.32	-0.41	23,61,101,113	0
3	NAP	H	2102	48/48	0.92	0.25	-0.43	37,85,113,122	0
3	NAP	I	2102	48/48	0.95	0.26	-0.43	29,80,104,116	0
4	FMN	L	2101	31/31	0.96	0.29	-0.54	19,59,102,114	0
4	FMN	I	2101	31/31	0.97	0.30	-0.55	22,56,87,103	0
4	FMN	G	2101	31/31	0.95	0.31	-0.58	26,63,101,111	0
3	NAP	G	2102	48/48	0.92	0.24	-0.60	42,87,119,128	0
4	FMN	H	2101	31/31	0.96	0.32	-0.63	25,49,105,113	0
4	FMN	K	2101	31/31	0.92	0.36	-0.67	27,66,110,123	0
3	NAP	J	2102	48/48	0.89	0.21	-0.78	35,88,118,120	0

6.5 Other polymers [i](#)

There are no such residues in this entry.