



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 18, 2026 – 06:14 AM UTC

PDB ID : 4V59 / pdb_00004v59
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

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

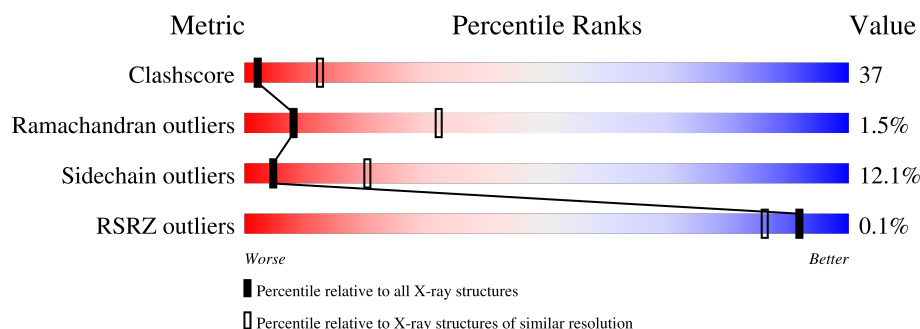
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

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.



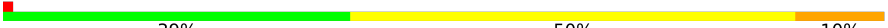
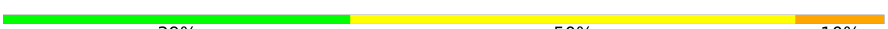
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1539 (3.10-3.10)
Ramachandran outliers	187476	1467 (3.10-3.10)
Sidechain outliers	187428	1467 (3.10-3.10)
RSRZ outliers	180081	1456 (3.10-3.10)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1878	
1	B	1878	
1	C	1878	
1	D	1878	
1	E	1878	
1	F	1878	
2	G	2060	

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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.

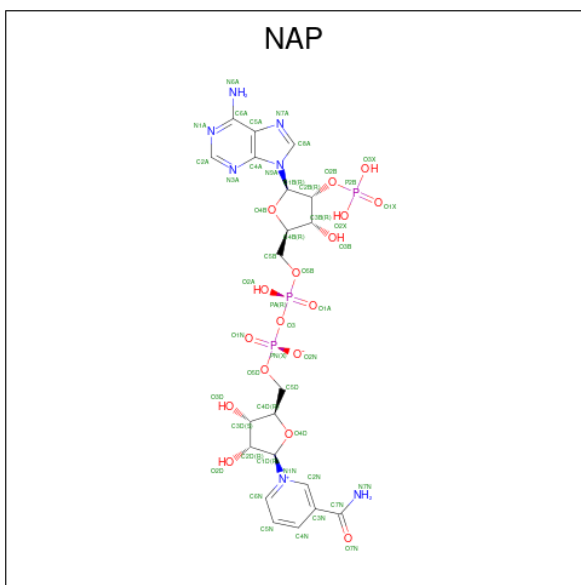
- Molecule 1 is a protein called FATTY ACID SYNTHASE ALPHA SUBUNITS.

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.

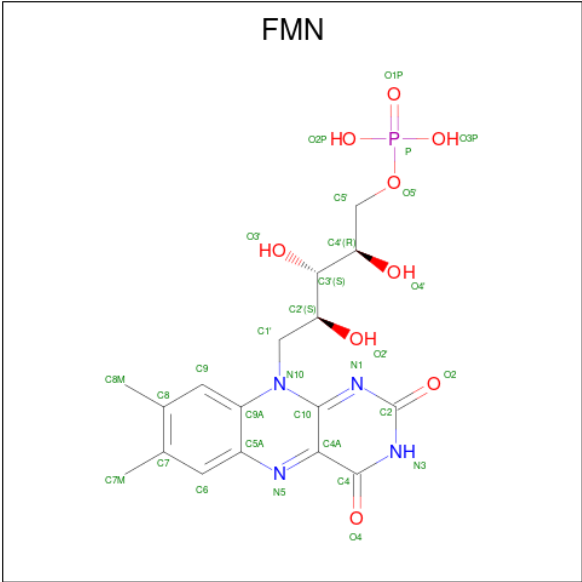
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	G	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	H	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	I	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	J	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	K	2060	Total	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 (CCD ID: NAP) (formula: C₂₁H₂₈N₇O₁₇P₃).



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

- Molecule 4 is FLAVIN MONONUCLEOTIDE (CCD ID: FMN) (formula: $C_{17}H_{21}N_4O_9P$).

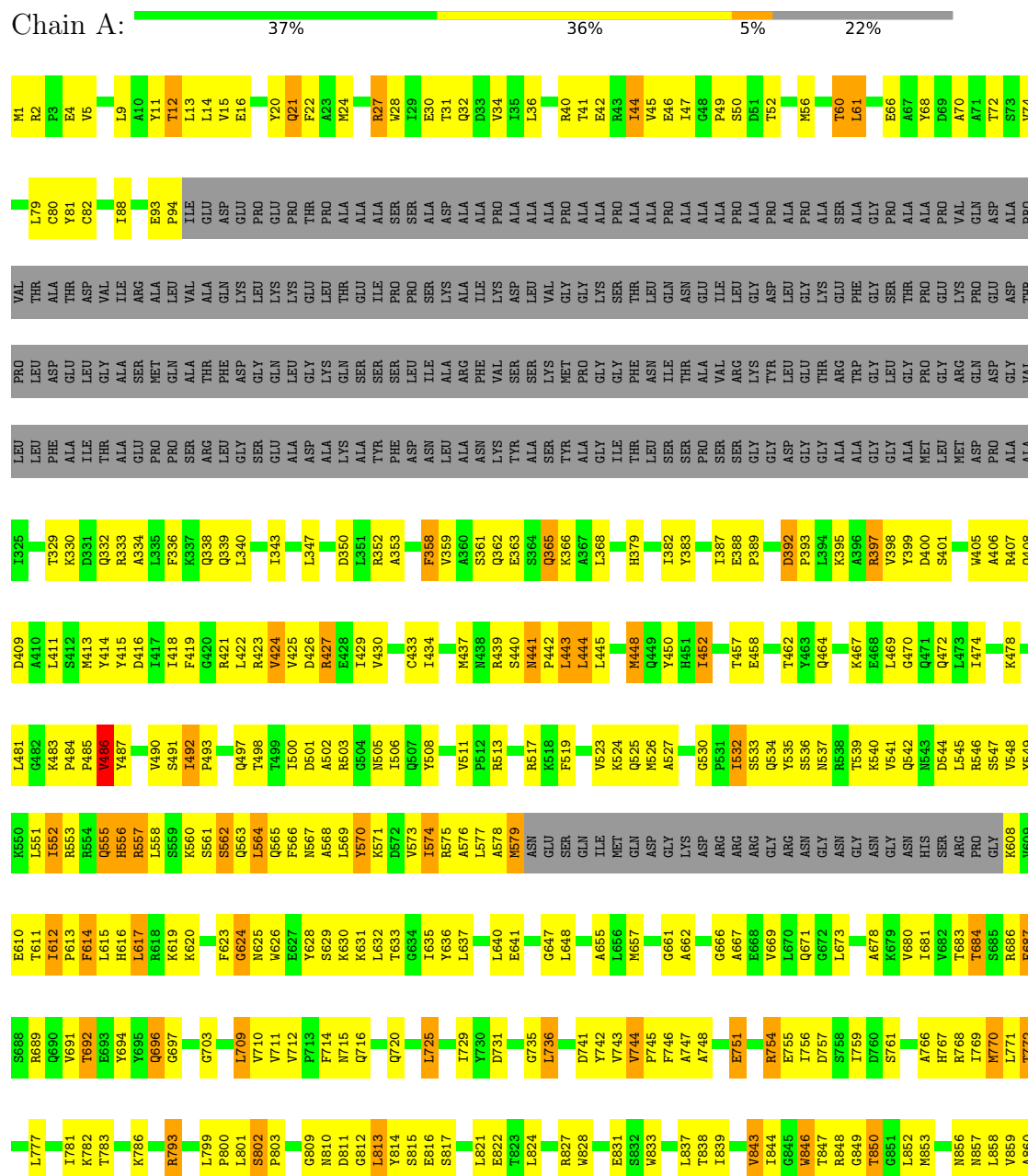


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	G	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	H	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	I	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	J	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	K	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	L	1	Total	C	N	O	P	0	0
			31	17	4	9	1		

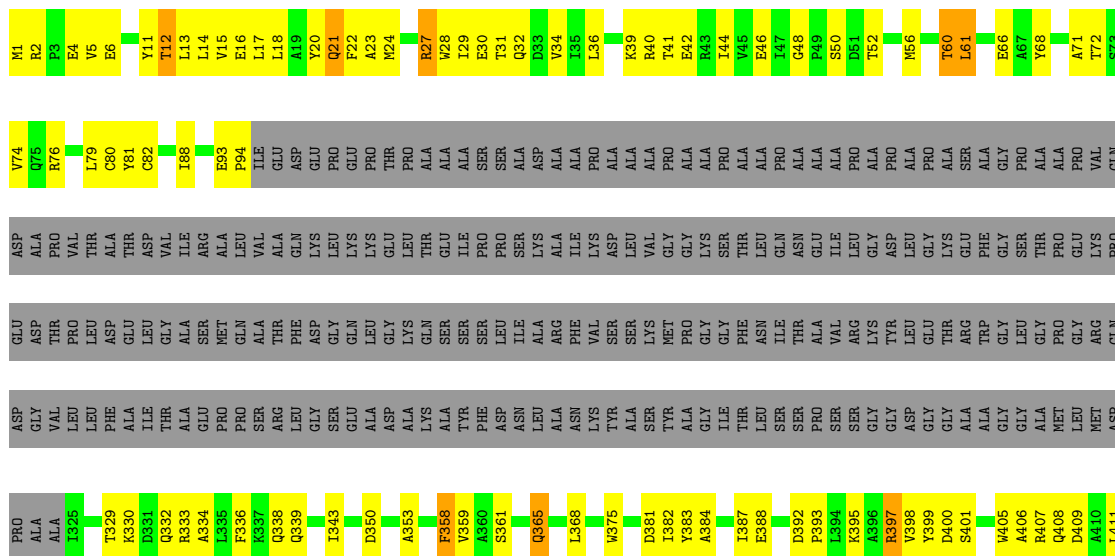
3 Residue-property plots

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

• Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS







W1510	G1356	G1278	L1191	E1117	Y952	Q873	T798	V710	G624	K560	G482	S412
G1511	C1357	C1279	L1443	E1118	K1043	Q874	L799	V711	M625	S561	K483	M413
L1512	L1444	L1445	L1198	E1119	L1042	E875	P800	V712	N626	S562	P484	Y414
T1513	Q1360	A1281	L1199	F1119	S1048	M876	L801	P713	E627	G563	P485	Y415
I1514	E1446	V1361	R1121	K1120	G1049	A877	S902	F714	V628	L564	Y486	A416
	V1447	T1282	S1200	R1121	G1049	F878		M715	S629	Q565	Y487	T417
H1523	M1363	D1288			M1050		G509	Q716	K630	P566		L418
G1523	A1448		Y1207	I1129	V1051	L881	N810		K631	N567	V490	F419
T1525	A1449	T1293	E1208	F1130	D1052	G882	D811	Q720	L632	A568	S491	G420
S1526	K1451	L1294	F1209	E1131	K964	L883	G512		T633	L569	I492	R421
T1527	A1368		Y1210	I1132	T1055	M884	L813	L725	G684	Y570	P493	L422
V1528	R1454	K1298	K1211		G1056		Y614	V726	L635			R423
D1531	M1371	A1299	Q1137	Q1137	E1057	I888	S815		V636	V573	Q497	V424
K1532	G1372	R1300	V1213	F1138	P1058	N889	E816	I729	L637	I574	T498	V425
M1533	V1373	V1301	H214	T1139	P1059	Q517	S817		R575	R575	T499	D426
G1534	P1374	G1302	L1215	R1140	D1060	C891		D731	L640	A576	I500	R427
E1534	P1460	L1375	S1216	R141		L892	L821			L577	E428	E428
	F1461	E1217	L1142			Q893	E822	G735	G647	A578	A502	I429
I1539	E1462	G1306	V1218		D1063	Q893	E822	L736	L648	M579	R503	V430
Q1541	M1381	F1307	A1146		V1064	F898	L824			N580	G504	
L1542	A1464	D1308	G1223	T1147	K1065	A899		L740	A655	Q583	I506	C433
	T1386	D1309	S1224	L1148	Q983	D900	W828	D741	L656	L584		C433
	F1310	F1310	G1225	L1149	L984	L901		V742	M657	I584		I434
L1545	L1467	Q1311	V1226	I1150	R985	N902	E831	V743		M585	V511	M437
G1546	E1312	E1312			G986	G903	S832	V744		Q586	P512	M438
R1547	I1389	E1313	T1229	A1153	I1072	G904	W833	F745	A662	ASP	R513	R439
	V1393			L1154		L905		F746	G666	GLY		S440
M1551	P1394	Y1316	L1232	Q1155	H1075	Q906	L837	A747	A667	LYS	R517	N441
A1552	A1395	E1317	R1233	F1156		F907	T838	A748	F668	ASP	K518	P442
V1553	P1396		G1234	D1157	I1078	I908	I839		V669	ARG	F519	L443
L1554	E1475	M1321	M1235	R1158	R1079	P909		E751	L670	ARG		L444
	R1476	G1322	V1236	L1159	L1080	W843	D910	Q671	G671	GLY	Y522	
L1561	L1401	T1324	K1237	V1160	I1081	L911	E844	E754	E754	ARG	V523	F447
	V1400	A1327		G1162	E1082	L914	W846	I756	K524	ASN	K524	M448
	A1403		T1249	Q1163	P1083	M915	T847		Q525	ASN	Q449	Q449
P1565	A1404	E1327	L1250	L1164	E1084	T915	R948	D757	M526	GLY	Q526	Y450
K1566	L1405	E1330	Q1251	I1165	L1085	T916	R948	F758	ASN	ASN	A527	H451
G1567	E1484		E1252	T1166	F1086	K917	G949	I759	K678	ASN	E528	I452
A1568	S1413		E1253	T1166	I1002	L918	T850	D760	A679	ASN	G529	D453
	P1414		S1253	G1167	G1003	R919	G851	S761	V680	GLY		
	T1487	G1334	F1254	W1168	P1004	L852	L681		G688	ASN	S533	T457
W1572	S1488	R1335	F1254	D1169	P1091	T922	M853	A766	V682	HIS	Q534	E458
	F1489	R1336	T1257	A1170	G1006	S854		H767	T683	SER	Y535	
G1577	K1419	P1337	M1258	R1171	G1006	S854		T683	T683	ARG	Y535	T462
L1578	G1490	E1337	S1268	E1179	R1093	S926	R855	R768	T684	ARG	S536	G470
Q1579	M1491	G1338	A1259	R1172	K1094	R856	N857	I769	S685	PRO	N537	Q471
V1580	R1422	E1339	A1260	Y1173	Q1095	R929	N857	M770	R636	GLY	Y463	Q464
											R538	
L1581	V1494	M1340	G1174	G1174	L1096	Q330	L858	L771	F687	LYS	Q464	Q464
	R1495	S1341	V1175	V1175	L1012	Q330	L858	L771	F687	LYS	L465	L465
	L1425	R1342	M1264		V1012	Q330	L858	L771	F687	LYS	L465	L465
H1582	E1426	R1342			E1013	T933	V859	I772	S688	VAL	N643	
G1584	L1427	P1343	L1267	E1177	E1013	T933	A960		G688	E610	K467	
	T1344	T1343	L1267	E1177	M1014			L777	G690	T611	R546	E468
M1589	R1499	T1344	D1278	D1178	V1101	N940	G862		V691	T612	S547	L469
N1590	V1500	S1345	S1269	I1179	Y1017	K941	V863	A780	T693	P613	Q470	
	A1501	T1346	T1270	I1180	E1103	V942	F664	I781	F693	P614	Y549	Q471
			G1271		Q1104		K965	K782	V694	L615	K550	Q472
H1591	Q1431	T1347			D1105	E946		I783	V695	H616	L551	L473
	I1432		P1272	V1183	E1023	D947			G696	L617	I552	I474
R1504	F1504	F1351	T1273	L1184	M1032	H948		K786			R553	
E1592	L1506	M1352	K1274	E1107	E1107	R869	T870		G697			K478
V1598	L1507	E1353	T1275	V1186	P1103	E949				K620	R557	
			P1276	T1187	M1037	F571						
M1599	Y1444	Q1355	L1577	L1198	M1037	A550	F571	R793	Q708			L481

LEU	ALA	V1695	P1608	F1522	Q1444	F1351	T1275	Q1104	Y1017	1933	V863	I761
GLY	SER	F1696	S1609	H1523	E1445	M1352	P1276	D1105			E864	K762
VAL	PRO	L1697	R1610	G1524	E1446	E1353	G1277	E1107	L1022	N940	K865	T763
ALA	ALA				V1447	S1354	G1278	P1185	E1023	N942	V868	K786
SER	SER	M1698			A1448	Q1355	A1279	P1108	M1032		R869	R793
LYS	ARG	P1699	K1613	T1527	A1449	G1356	C1280	K1113			T870	
GLY	VAL	Q1700	T1614	A1529	I1450	C1357	A1281	K1120	L1042	E946	F871	
ALA	GLY	S1701	T1617	M1530	K1451		T1282	E1117	M1037	D947	S872	I798
VAL	VAL	R1702		D1531	R1454	Q1360	D1288	F1118	H1038	E949	Q874	P800
ASP	ASP	V1703	T1623	H1532		V1361		F1119			M876	L801
ALA	VAL	T1704	S1624	K1533	E1457	I1362		K1121	K1043	Y952	P802	
GLY	GLY	Q1705	F1625	E1534		M1363	T1293	K1122			A877	P803
ARG	SER		G1626				I1294	Y1207		Y956	R878	
ARG	VAL	M1708		I1538	D1482	Q1366	M1295	I1129	S1048		F879	G809
GLY	ASP	G1709	K1629		E1463	L1367	Q1296	F1130	G1049	P959	G1049	N810
ILE	ASP	E1710	K1630	Q1541	E1464	A1368	G1297	Y1210	W1050	R960	L881	D811
VAL	ILE	L1711		L1542	A1465	L1369	K1298	I1131	V1051	A961	G882	G812
ASN	ASN	K1712	Q1633		Y1466	E1370	A1299	I1132	D1052	N962	L883	
ASN	ILE	F1713		L1545	L1467	M1371	R1300	Q1137	T1055	N963	M884	Y814
ASP	ASP	P1714	H1638	G1546	R1468	G1372	H1214	Y1138	G1056	N964	A885	S815
ALA	ASN	A1715	P1639	E1547	R1469	V1373	C1302	T1139	E1057	Y965	P886	E816
ALA	GLY	PRO	K1640	R1547	E1470	P1374	L1303	Y1140	P1058	F967	A887	S817
GLY	GLY	VAL	Y1641	V1553				R1141			I888	L821
ALA	ALA	THR	L1642	L1554	H1473	M1381	G1306	L1142	D1063	P968	V889	E822
PRO	ILE	THR			I1474		F1307		V1064		N890	T823
GLY	SER	PRO	L1646	L1561	E1475	T1386	D1308	A1153	H1075	Q983	D900	E831
VAL	ARG	THR	D1647	V1562	R1476	D1387	D1309	L1154	I1078	N902	N902	W833
HIS	ASN	GLY	K1648	G1563		K1388	F1310	Q1185	L1078	N903	G903	L837
LEU	PHE	ASP	A1649	H1564	Q1480	T1389	Q1311	F1156	R1079	G904	T838	
HIS	THR	LYS	Q1650	P1565	Q1481	T1390	Q1312	D1157	L1080	N989	Q906	L839
GLY	GLY	LYS	Q1651	R1566	E1482	V1393	E1313	L1159	I1081	L990	F907	
ALA	ARG	GLN	E1652	G1567	A1483	P1394	G1314	V1160	E1082		I908	V843
ALA	ALA	SER	A1653	A1568	E1484		S1315	A1161	F1083	V995	I908	I844
ALA	GLY	GLY	Y1654	W1572	Q1495	V1400	E1316	Q1162	L1084	V996	P909	G845
ALA	ALA	THR	C1655		T1487	L1401	E1317	Q1251	L1085	T997	G846	
ALA	TYR	GLN	V1656		T1487	M1235	M1236	L1164	F1086	G998	W846	
ALA	CYS	THR	K1657	C1577	S1488	T1402	M1321	D1157			L911	
LYS	ARG	PRO	V1658	L1578	F1489	A1404	G1322	R1158	L1086		L914	
GLN	ARG	SER		Q1579	G1490	R1405	A1323	L1169			M915	T847
ALA	ALA	GLU	R1661	V1580	N1491			D1169			G849	
GLY	PRO	SER	Q1662	H1581		S1413	A1327	W1166	Y1089	A1000	T916	T850
ASN	ASN	ASP	K1663	H1582	W1494	I1418	E1330	G1167	D1090	I1001	K917	G851
ALA	PRO	ALA		G1584	R1495	K1419		W1168	M1092	E1002	L918	L852
ALA	ARG	ALA	F1669		R1496	Y1420	R1333	D1170	K1093	P1004	M853	
SER	VAL	SER	H1670	M1589	R1499	R1421	G1334	R1171	Q1095	W1005	R919	
ASN	SER	ALA	M1671	R1590	I1500	R1422	R1335	Y1172	L1096	G1006	I922	N856
VAL	PHE	GLU	L1672	H1591	A1501	Q1423	P1336	G1174	L1097	A1008	S926	N857
SER	GLY	GLN	I1674	H1592	R1504	L1425	G1338	V1175	Q1099			L858
THR	ARG	GLN	N1675	D1593	G1505	E1426	E1339	E1177	V1100			V859
ARG	TRP	ARG	N1676		G1505			E1178				A860
HIS	THR	THR	K1677	V1598	T1509	R1429	M1340	G1174				E861
GLY	THR	ALA	L1678	M1599	W1510	Q1430	R1342	V1176				Q930
ASP	ALA	LEU			G1511	Q1431	T1343	P1176				R929
GLN	GLY	ALA	K1682	F1602	H1512	T1344	S1345	E1177				E861
ALA	ALA	LEU		D1603	T1513	T1345						
ALA	ILE	ALA	P1686	Y1604	T1514	T1346						
ALA	PHE	ALA		F1605	T1514							
VAL	VAL	THR	T1691	V1606	Y1442	T1347						
ALA	SER	ALA	Q1692	Y1607	L1443							

● Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

Chain E:



P1091	M1007	K934	K865	K782	T692	K619	R557	Y487	Y415	P331	ILE	LEU	ASP	Y81	M1
M1092	A1008	E935	L866	T783	E993	K620	L558	V490	D416	Q332	THR	GLY	VAL	C82	R2
R1093	R1011	N940	G867	K786	E995	G623	S559	V491	T417	R333	ALA	ALA	ILE	I88	P3
Q1094	M1012	N943	R869	K787	G696	F624	S561	T492	T418	A334	PRO	MET	ALA	V5	E4
L1096	E1013	V943	R870	T792	G697	G625	S562	F419	G420	L335	PRO	GLN	ALA	P94	V5
L1097	M1014	R871	R872	R793	G703	G626	Q563	P493	R421	K397	SER	ALA	VAL	E8	E8
Q1098	Y1017	D947	S872	L799	G708	E627	Q565	T498	L422	Q338	ARG	THR	ALA	L9	L9
E1099	H948	H948	Q874	P800	Q708	G628	Q566	T499	R423	Q339	LEU	PHE	GLN	A10	A10
V1100	E949	E949	E875	L801	Q709	G629	N567	D501	V424	L340	GLY	GLY	LYS	T11	T11
E1102	L1022	A950	N876	S802	V710	K630	A568	A502	V425	L343	SER	GLN	LYS	L13	L13
E1103	M1031	L851	A877	V711	V711	K631	L569	R503	R427	L347	ALA	LEU	LYS	L14	L14
Q1104	M1032	F878	Q878	W712	W712	L632	V570	S594	E428	L347	ASP	GLY	GLU	V15	V15
L1105	M1037	N879	N810	P713	P713	G634	A571	N505	L429	D350	ALA	LEU	LEU	E16	E16
D1106	H1038	L880	D811	F714	F714	G635	Q507	V508	V430	L347	LYS	THR	THR	L17	L17
E1107	E1108	L881	G812	Q715	Q715	G636	A574	Y508	C433	A353	ALA	SER	GLU	L18	L18
P1108	P1041	L882	G813	Q716	Q716	G637	A576	Y508	C433	A353	TYR	SER	ILE	A19	A19
K1113	L1042	N884	S815	L726	L726	L640	L577	R513	I434	F358	PHE	SER	PRO	Q21	Q21
E1117	K1043	R888	E816	I729	I729	L641	A578	R517	M437	V359	ASN	LEU	PRO	F22	F22
E1118	P1046	V889	S817	Y730	Y730	G647	Q578	R518	M438	A360	LYS	ALA	ASP	A23	A23
F1119	Y1047	N890	L821	D731	D731	G648	GLU	F519	R439	S361	ALA	ARG	LYS	M24	M24
K1120	S1048	L891	R822	G735	G735	G649	SER	Y522	S440	Q362	VAL	PHE	ILE	R27	R27
R1121	G1049	G892	L824	L736	L736	F650	GLN	Y523	P442	S364	LYS	VAL	LYS	V28	V28
V1127	V1050	Q893	L824	L736	L736	A655	ILE	Y524	L443	Q365	SER	SER	ASP	I29	I29
E1128	D1052	P967	L656	L740	L740	G657	MET	K524	L444	K366	LYS	VAL	LEU	E30	E30
I1129	E969	F898	G657	D741	D741	G658	GLN	Q525	L445	A367	TYR	PRO	GLY	T31	T31
E1130	L1055	N900	W828	W744	W744	G661	ASP	M526	L445	L368	ALA	PRO	GLY	L36	L36
E1131	G1056	D900	E831	V744	V744	A662	GLY	A527	M448	E378	GLY	GLY	LYS	L40	L40
I1132	E1057	L901	S832	F746	F746	A663	LYS	Q529	Q449	T382	ILE	THR	SER	R40	R40
G1136	D1060	N902	W833	Y746	Y746	G666	ARG	Q530	H451	Y383	THR	PHE	THR	T41	T41
Q1137	D1063	G904	L837	A747	A747	G667	ARG	P531	I452	I387	ASN	ILE	GLN	E42	E42
Y1138	Y1104	L905	T838	A748	A748	A667	ARG	I532	I453	E388	THR	THR	ASN	R43	R43
T1139	Y1064	Q906	L839	I749	I749	F668	GLY	S533	D453	P389	ALA	ALA	ALA	I44	I44
R1141	K1065	F907	V843	P750	P750	G669	ARG	Q534	T457	E390	VAL	VAL	ILE	V45	V45
L1142	Q983	I908	I844	E751	E751	L670	ASN	F535	E458	A390	ARG	ARG	LEU	E46	E46
A1146	Y1068	L911	G845	R754	R754	G671	GLY	S536	T462	F391	LYS	LYS	GLY	P49	P49
T1147	E1069	R955	Q846	E755	E755	G672	ASN	R537	Y463	D392	THR	THR	LEU	S50	S50
L1148	K1070	N915	T947	I756	I756	L674	GLY	T539	Q464	P393	ALA	GLU	LEU	I61	I61
L1149	Y1071	T916	R848	D757	D757	G675	ASN	K540	K467	L394	GLY	THR	GLY	T52	T52
L1150	I1072	G849	G849	S758	S758	G676	ASN	V541	E468	K395	ALA	ARG	GLU	R59	R59
T1150	H1075	K917	T850	I759	I759	G677	HIS	Q542	L469	R397	ALA	TRP	PHE	T60	T60
A1153	I1078	L918	G851	D760	D760	A678	SER	N543	Q470	V399	GLY	LEU	GLY	L61	L61
L1154	E1079	L919	L852	S761	S761	G680	PRO	L545	Q471	Y399	ALA	GLY	THR	E66	E66
Q1155	R1079	T922	S854	A766	A766	L681	GLY	S546	Q472	D400	MET	PRO	PRO	A67	A67
F1156	L1080	G923	A855	H767	H767	G682	GLY	S547	L473	S401	LEU	GLY	GLY	Y69	Y69
D1157	E1081	E924	N856	R768	R768	G683	V699	V548	L474	W405	MET	ARG	VAL	F69	F69
R1158	T925	L999	T857	I769	I769	G684	E610	Y549	K478	A406	GLN	PRO	GLN	A71	A71
L1159	P1083	S926	L858	W770	W770	G685	T611	K550	K478	R407	ASP	ASP	GLY	T72	T72
L1160	E1084	A927	R859	L771	L771	G686	LEU	L551	L481	Q408	GLY	GLY	ALA	S73	S73
V1160	L1085	T928	A860	T772	T772	F687	P613	I552	G482	D409	VAL	VAL	THR	V74	V74
A1161	F1086	R929	S861	L777	L777	G688	G614	R553	G483	M413	LEU	LEU	PRO	L79	L79
Q1162	P1004	Q930	G862	L777	L777	G689	L615	Q554	K483	T329	LEU	PHE	ASP	C80	C80
Q1163	W1005	G930	G863	L777	L777	G690	L616	Q555	V486	K330	THR	ALA	THR	L79	L79
I1164	G1006	I933	E864	I781	I781	G691	L617	H556	V486	Y414	ALA	ALA	THR	C80	C80

P1165	E1252	E1330	S1413	E1482	C1577	A1653	GLN	ARG	ALA
T1166	S1253	E1333	P1414	F1493	L1578	Y1654	SER	GLU	ALA
W1167	F1254	R1333		W1494	Q1579	C1655	GLY	GLN	ALA
D1169	T1257	G1334	T1418	R1496	V1580	V1656	ALA	ALA	GLU
A1170	M1258	R1335	K1419	R1499	W1581	K1657	GLN	ALA	ALA
R1171	A1259	E1336	Y1420	T1500	N1582	R1661	THR	CYS	ALA
R1172	A1260	P1337	R1421	R1499	G1583	Q1661	PRO	ARG	LYS
Y1173		G1338	R1422	A1501	T1584	K1663	SER	ARG	GLN
	M1264	E1339	R1423	R1504	P1587	H1670	PRO	ALA	VAL
E1177	L1267	M1340	Q1424	G1505		N1671	ALA	PRO	LYS
D1178	S1268	S1341	E1426	T1509	R1590	G1672	ALA	ARG	THR
T1179	S1269	R1342	R1427	T1510	N1591	L1673	SER	ALA	VAL
T1180	T1270	P1343	R1429	G1511	A1592	N1674	ALA	ALA	ASN
	G1271	S1344	Q1430	G1512	D1593	N1675	PHE	GLU	VAL
V1183	P1272	S1345	Q1431	T1513	V1598	N1676	GLN	GLY	ILE
T1184	P1273	T1346		I1514	M1599	K1677	THR	ARG	SER
P1185	K1274	T1347	L1441		F1602	L1678	ARG	THR	HIS
T1186	T1275	F1351	Y1442	F1522	D1603	K1682	THR	THR	GLY
T1187	T1276	S1352	L1443	G1524	Y1604	Y1686	ALA	ALA	ASP
L1188	G1277	E1353	E1446	G1524	I1605	Y1687	LEU	GLN	LEU
	A1278	S1354	V1447	T1527	Y1606		ALA	ALA	ALA
L1191	A1279	Q1355	A1448	V1528	Y1607	I1691	ALA	ILE	VAL
L1199	C1280	G1356	A1449	V1529	P1608	Q1692	PHE	ALA	ALA
	A1281	C1357	I1451	D1531	S1609	N1696	LYS	VAL	VAL
D1205	T1282	Q1360	K1451	D1532	R1610	L1697	SER	ALA	ALA
F1206	D1288	I1362	R1454	N1533	K1613	L1699	GLY	VAL	ALA
Y1207		T1361	E1457	E1534	T1614	Q1700	ALA	GLY	ALA
E1208	T1293	M1363			I1617	S1701	SER	ARG	GLY
F1209	Q1296	Q1366	D1462	T1538	F1620	R1702	GLY	VAL	ALA
Y1210	K1297	A1367	E1463	Q1541	T1623	V1703	ALA	GLY	VAL
K1211	K1298	L1368	T1464	L1542	S1624	T1704	ASP	ALA	ALA
Y1212	A1299	M1371	A1465	L1545	F1625	Q1705	VAL	ALA	VAL
H1214	R1300	G1372	Y1466	G1546	G1626	E1706	ASP	MET	GLU
L1215	V1301	P1373	R1467	R1547	Q1629	S1707	GLY	ARG	SER
S1216	G1302	T1375	R1468		K1630	N1708	VAL	GLU	VAL
E1217	L1303		E1469	V1553	K1633	G1709	ASP	ILE	ASP
G1219	G1306	M1381	R1470	L1554	Q1633	E1710	ASP	ILE	GLU
	F1307	T1386	H1473	G1555	H1638	K1711	SER	GLU	GLU
G1223	D1308	D1387	I1474	T1556	P1639	K1712	ILE	ILE	VAL
S1224	D1309	K1388	R1476	F1557	H1640	F1713	ASN	ILE	ASN
G1225	Q1310	I1389			Y1641	A1715	ASP	ASP	ALA
V1226	Q1311	V1393	R1480	L1561	L1642	GLU	ALA	ALA	ASN
T1229	Q1312	P1394	E1481	T1562	L1646	PRU	GLY	GLY	GLY
	E1313	A1395	E1482	G1563	D1647	VAL	GLU	ALA	VAL
L1232	G1314	P1396	A1483	H1564	K1648	THR	SER	ILE	THR
K1233	S1315	E1317	E1484	P1565	A1568	THR	ARG	THR	GLY
G1234	M1235		A1485	K1566	Q1572	THR	ASN	ASN	ASP
Y1236	Y1236	V1400	Q1486	G1567	Q1573	THR	GLY	THR	LYS
G1237	M1321	L1401	T1487	A1568	E1652	THR	GLY	THR	GLY
D1238	G1322	T1402	S1488	A1568		THR	GLY	THR	GLY
	A1323	T1403	F1489			THR	GLY	THR	GLY
T1249	T1324	A1404				THR	GLY	THR	GLY
L1250						THR	GLY	THR	GLY
Q1251	A1327					THR	GLY	THR	GLY

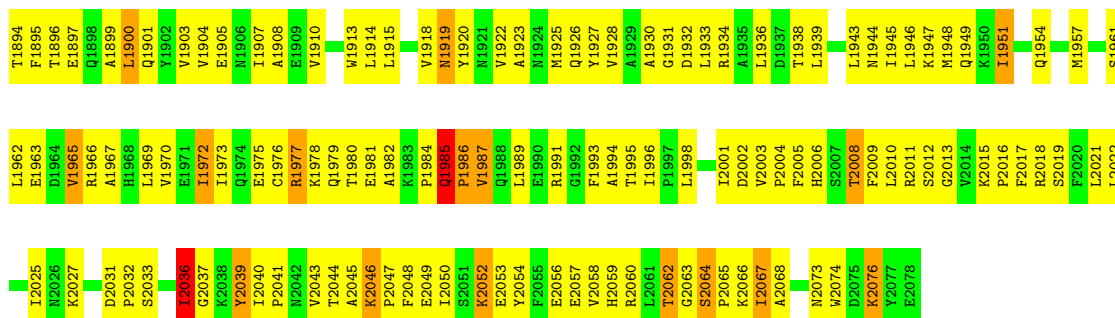
• Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

Chain F:  38% 34% 5% 22%

K1	S73	PRO	THR	VAL	ALA	THR	VAL	ALA	ALA
R2	V74	LEU	LEU	THR	ALA	THR	THR	GLY	ALA
V5	L79	ASP	ASP	ALA	ALA	ASP	ALA	GLY	ALA
E6	C80	THR	THR	ALA	ALA	THR	ALA	GLY	ALA
L9	Y81	ASP	THR	VAL	ALA	THR	VAL	GLY	ALA
A10	C82	VAL	THR	ALA	ALA	THR	VAL	GLY	ALA
Y11	T88	ARG	ALA	ILE	ALA	THR	VAL	GLY	ALA
T12	P94	ARG	ALA	VAL	ALA	THR	VAL	GLY	ALA
L13		PRO	ALA	VAL	ALA	THR	VAL	GLY	ALA
L14		PRO	ALA	VAL	ALA	THR	VAL	GLY	ALA
V15		ARG	ALA	VAL	ALA	THR	VAL	GLY	ALA
E16		LEU	ALA	VAL	ALA	THR	VAL	GLY	ALA
L17		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
		ASP	ALA	VAL	ALA	THR	VAL	GLY	ALA
Y20		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
Q21		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
F22		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
A23		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
A24		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
P25		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
V26		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
R27		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
Y28		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
T29		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
E30		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
T31		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
Q32		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
R33		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
Y34		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
I35		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
L36		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
R40		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
T41		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
E42		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
R43		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
L44		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
V45		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
E46		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
L47		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
G48		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
P49		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
S50		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
P51		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
T52		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
M56		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
T60		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
L61		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
Q62		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
S63		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
E66		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
L67		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
Y68		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA
T72		GLY	ALA	VAL	ALA	THR	VAL	GLY	ALA

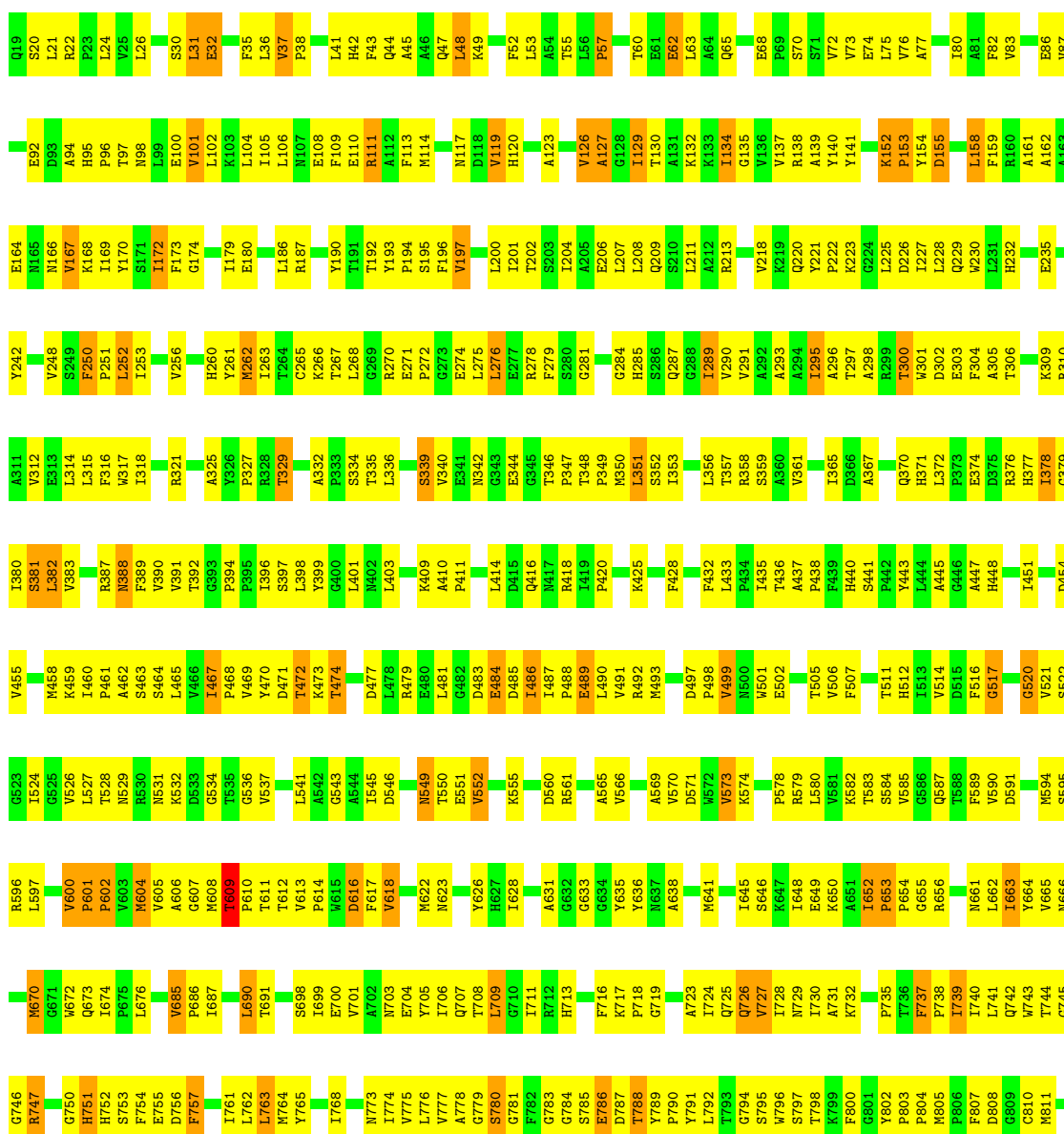


D1820	E1744	T1650	A1575	T1487	G1410	P1345	P1267	P1198	G1105	E1036	I963	E894	T824	E755
M1821	L1745	L1663	S1576	R1491	M1411	M1346	E1268	K1411	T1199	E1107	R964	K1106	S825	D756
S1823	T1746	E1654	N1579	L1492	V1413	D1347	A1269	R1200	E1107	E1107	R965	K897	K826	F757
	F1749	H1655				F1348	G1270	Y1203	V1110	K1044	V966	R898	Q827	
L1826	G1750	V1656	V1583	V1496	C1416	I1350	A1272	V1204	V1110	D1045	E967	D900	K829	I761
	G1751	G1657	S1584	R1497	S1420	V1351	E1273	I2104	F1111	S1046	E968	Y901		L762
R1829	P1752	G1658	G1585	F1498	K1420	V1352	I1274	I2106	V1112	W1048	R969	I902	I832	L763
	R1753	T1659	D1586	K1499	R1421	G1353	R1275	T1207	E1114	Q1049	T971	I903	D834	M764
F1833	G1754	N1500	V1587	N1500	K1425	W1354		N1208	E1115	S1050		K904	R834	Y765
A1834	K1755	V1664	M1588		P1424	K1355	E1279	P1209	F1116		P977	K905	A835	I768
G1835	I1590	P1589	V1503	V1504	P1425	A1356		D1210	I1053		S978	L906	R836	
	T1666	I1590	V1504	V1504	V1426		K1286	D1211	R1119		S978	N907	P837	
G1839	R1758	V1667	H1591	S1505	M1427	K1359	E1287	P1212	I1120	Y1057	L979	D908	V838	N773
E1840	D1668	V1592	S1506	S1506	Y1428	P1360	F1288		G1058		R980	D908	D839	I774
Y1841	A1669	S1593	R1594		V1429	I1361	F1289	T1215	P1128		F910	D909	V775	
				I1510	T1430	F1362	Y1290	V1216		W1060		Q911	D840	L776
L1844	M1762	T1674	V1595	V1513	S1431	P1363	R1291	I1217		Y1061		K912	D841	W777
V1845	S1763	D1675	F1596	L1514	F1432	R1364	V1292	S1218			L986	Q912	Q842	A778
A1846	M1764	E1676	N1601	L1514	F1433	K1365		V1219	D1138	T1064	D987	W913	W843	I779
L1847	F1766	T1765	L1602	L1515	Y1434	I1366	F1299	R1220	I1219		P889	W914	E844	S780
	E1767	L1679	L1802	E1516	Y1435	D1367	P1300		N1140	I1066	Y990	F915	N845	G781
	T1768		P1603	L1517	R1436	G1368	F1301	Q1224	K1141	I1067	P991	G916	T846	F782
M1850	V1769	E1684	G1804	P1518	G1437	D1369		S1225	I1142	Q1068	A992	R917	Y847	G783
M1851	M1770		T1605	T1519	V1438	L1370	L1305		S1143	G1069	R995	W918		G784
P1852		P1688	T1607	E1520	Y1439	L1371		V1229			I996	Y924	T851	S785
L1853	F1689	E1676	L1606	E1521	T1440	K1372	F1309	K1230	D1156	Y1071	L997	D925	V854	E786
	T1690			I1522	D1441	L1373	D1310	T1231	V1157	A1072		L926	W854	D787
L1856	K1776	A1691	M1610	T1523	Y1442	V1374	G1311	V1232	D1158	A1073	Y1000	E927	T856	I788
	T1777		Y1611	Q1524	E1443	H1375		E1233	S1159	K1074	P1001	D928	T857	Y789
V1859		V1693	T1612	V1525	N1444	L1376	E1314	I1234	F1160	Y1075	A1002	M929	L858	Y791
	I1780	Q1700	V1616	V1528	T1445	S1377	I1315	K1235		S1076	I1003	T930	S859	L792
F1861	F1781	E1701	R1617		F1446	M1378	V1316	L1236	I1164		S1004	Y931	E860	T793
				G1533	Q1447	G1379	N1317	V1237		V1078	T1005	A932	M861	G794
T1866	E1783		V1620		R1448	V1380	A1318	G1238	Y1169	I1079	Q1006	E933	G862	S795
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Q1868	T1789	G1705	E1621	P1539	Q1455	M1382	A1320		S1171	E1081	I1008	W935	P864	S797
		M1706	T1622	V1540	L1456	P1383	V1321	E1241	R1172	P1082	N1009	H936	I865	T798
V1871	T1792	D1707	V1623	V1540	L1456	P1384	A1322	I1242	H1173	I1083	A1010	R937	H866	K799
		L1708	A1624	I1541	H1457		D1323	A1243	A1174	K1084	Q1011	M938	K867	F800
R1873	G1798			D1542		P1388	F1324	L1244	M1175	D1085	D1012		L868	G801
L1874	L1799		M1627	Y1543	T1460	L1389	V1325	T1245	F1716	I1086	V1013	L941	A869	Y802
		K1716	M1628	Y1543	Q1461	A1390		T1246	T1177	I1087	Q1014	M942	T870	X803
G1877	S1801		I1629	S1550	Q1462	V1391	V1328	F1247	T1178	D1088	H1015	Y943	R871	P804
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	L1806		V1635	V1555	R1468	D1396	E1333				L1019			
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V1886	L1810	I1735	M1639	L1563	K1474	I1401	D1337	L1259	Q1188	I1095		D952	I883	R815
N1887	T1811			S1564	L1475	N1402	D1337	F1269	M1190	F1097	K1026	P953	F884	M816
P1888	L1812	V1738		G1565		A1403	R1338	T1280	P1191	L1098	P1027	S954	D887	M817
S1889	M1813	K1739	V1643	L1566	T1481	V1404	G1339	F1261	L1192	L1099	V1028	L955	T818	T818
E1814	E1814	N740	V1643	T1567		L1644	D1341	F1263	K1193	R1300	P1029	K956	R888	A819
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					L1483		F1342	L1194	L1195	L1102	F1031	T959	K990	E821
V1892	F1818			P1574	L1484	S1409	F1344	Y1265	F1196	Y1103	A1032		R891	A822
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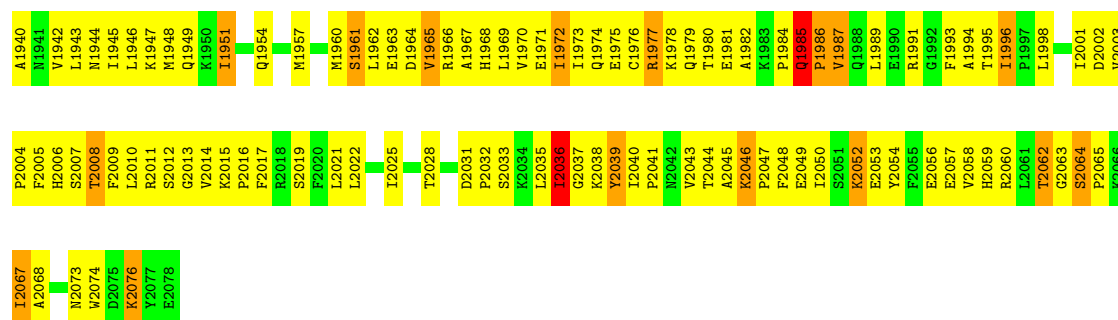


• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

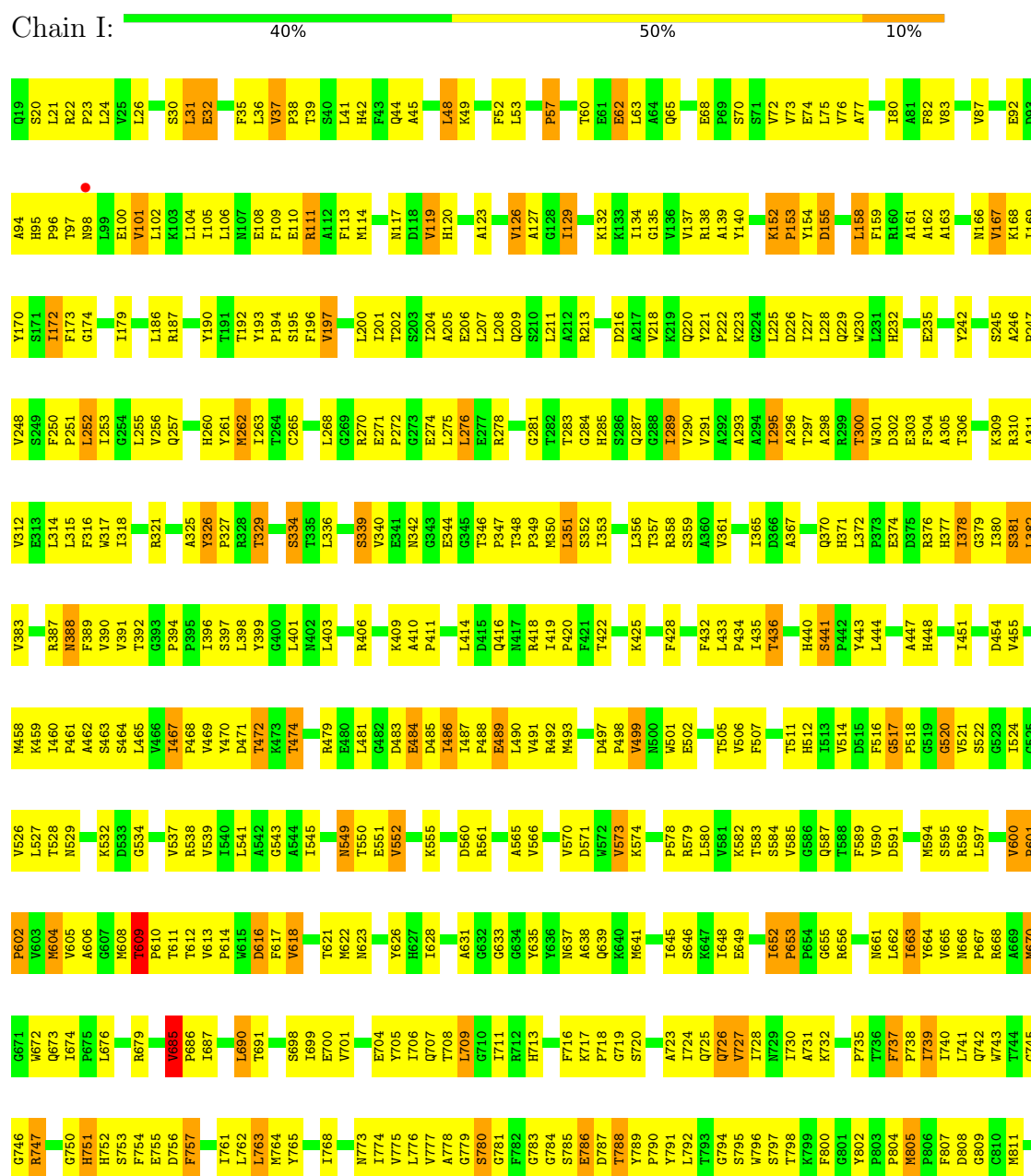
Chain H: 40% 49% 10%



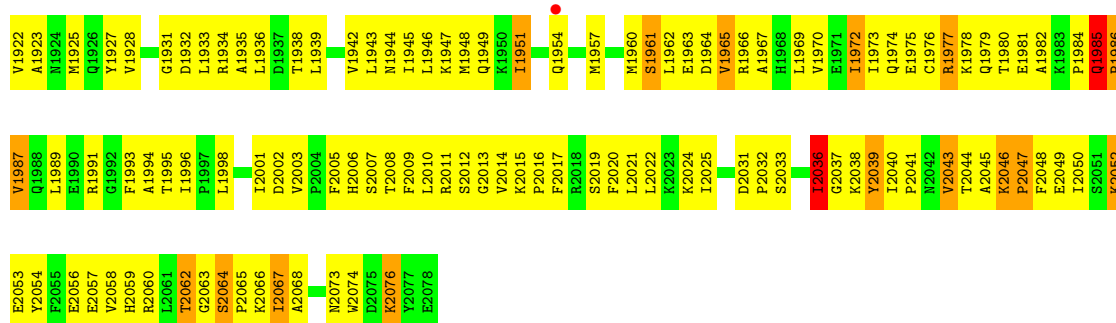
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G1877	T1803	S1469	S1634	N1559	S1469	Q1400	V1335	P1258	Q1188	D1093	R1022	K956	1883	M816
R1878	A1802	I1722	Y1635	I1559	I1401	N1402	V1336	P1259	Q1189	I1095	K1026	T959	D887	M817
S1879	Q1804	E1473	H1636	I1561	N1402	N1402	D1337	F1260	F1260	K1096	K1026	D961	D888	T818
N1880	F1805	K1724	H1637	I1561	A1403	A1403	R1338	F1261	N1190	F1097	V1028	F962	R887	A819
N1881	T1806	H1725	H1638	F1473	V1404	V1404	G1339	R1262	P1191	L1098	P1029	L963	R881	K820
A1882	Q1807	F1726	N1639	L1474	T1405	T1405	K1340	F1263	L1192	L1099	F1030	R964	R891	E821
R1883	P1808	R1727	S1564	L1475	N1406	N1406	D1341	T1264	K1193	L1103	P1031	R964	E894	A822
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S1889	T1650	T1650	N1577	T1487	V1413	V1413	F1348	Y1271	R1200	E1107	W1041	T971	D900	A828
R1890	E1578	E1578	N1577	T1487	V1413	V1413	A1349	A1272	R1200	E1107	W1041	T971	Y901	K829
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N1919	G1585	G1585	N1500	N1500	N1500	N1500	G1353	R1275	E1205	I1113	S1046	P977	K905	I855
Y1920	G1585	G1585	N1500	N1500	N1500	N1500	G1353	R1275	E1205	I1113	S1046	P977	K905	T856
N1921	G1585	G1585	N1500	N1500	N1500	N1500	G1353	R1275	E1205	I1113	S1046	P977	K905	V857
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A1923	G1585	G1585	N1500	N1500	N1500	N1500	G1353	R1275	E1205	I1113	S1046	P977	K905	S859
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V1938	G1585	G1585	N1500	N1500	N1500	N1500	G1353	R1275	E1205	I1113	S1046	P977	K905	I851
L1939	G1585	G1585	N1500	N1500	N1500	N1500	G1353	R1275	E1205	I1113	S1046	P977	K905	D952
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● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

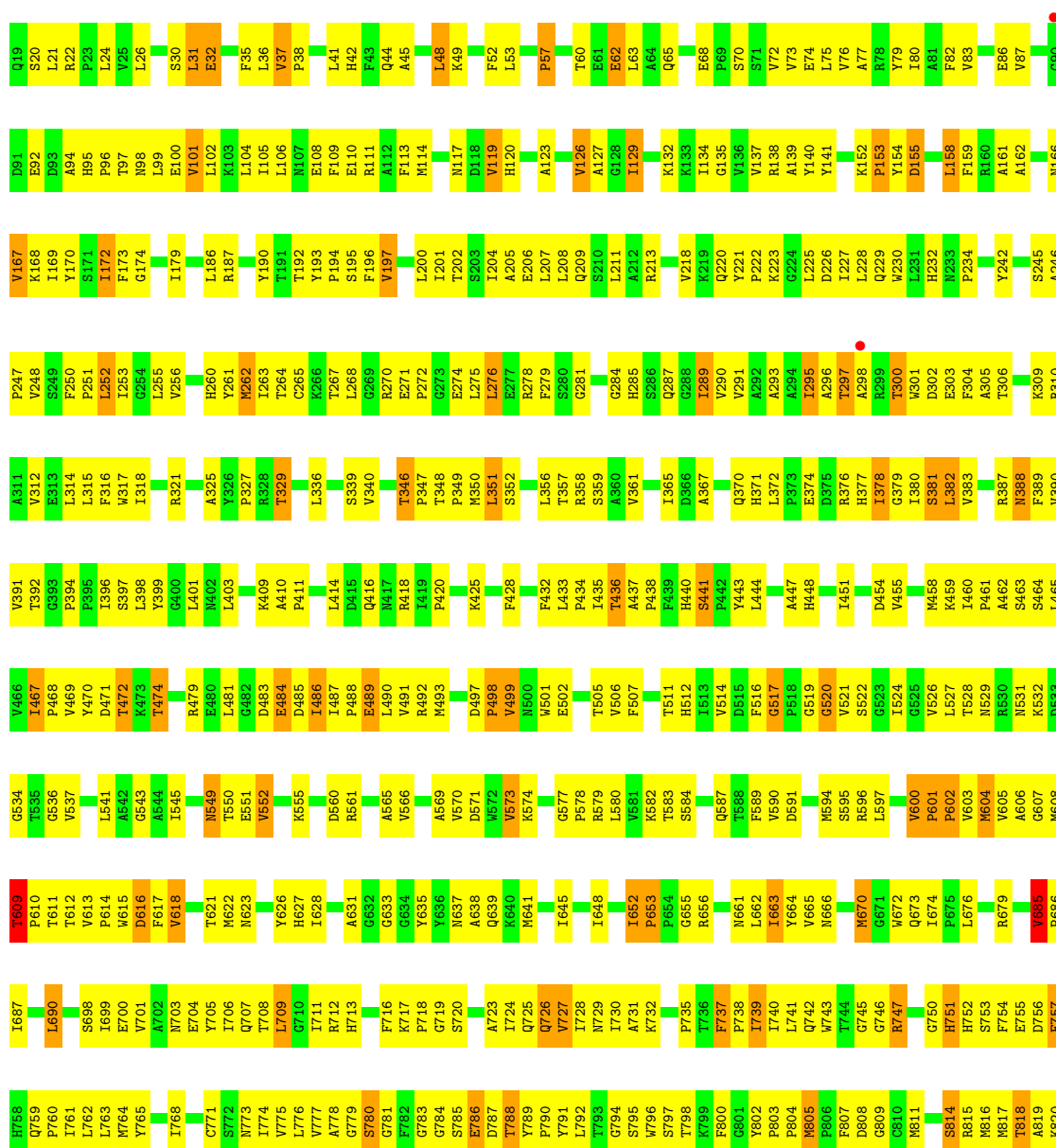






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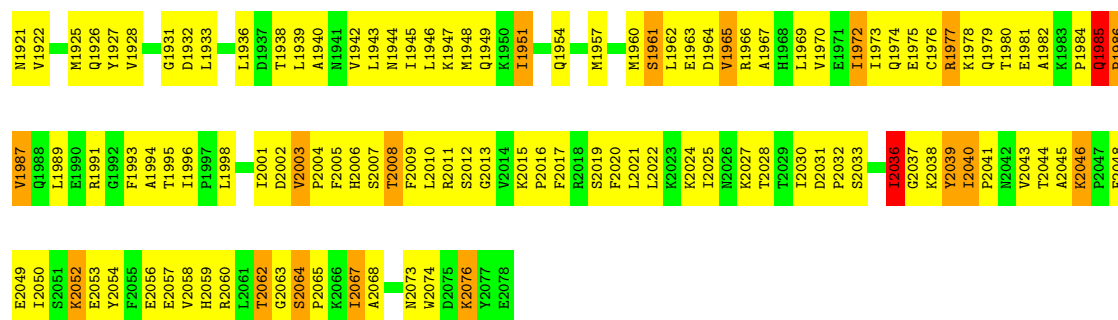
Chain J: 40% 50% 10%



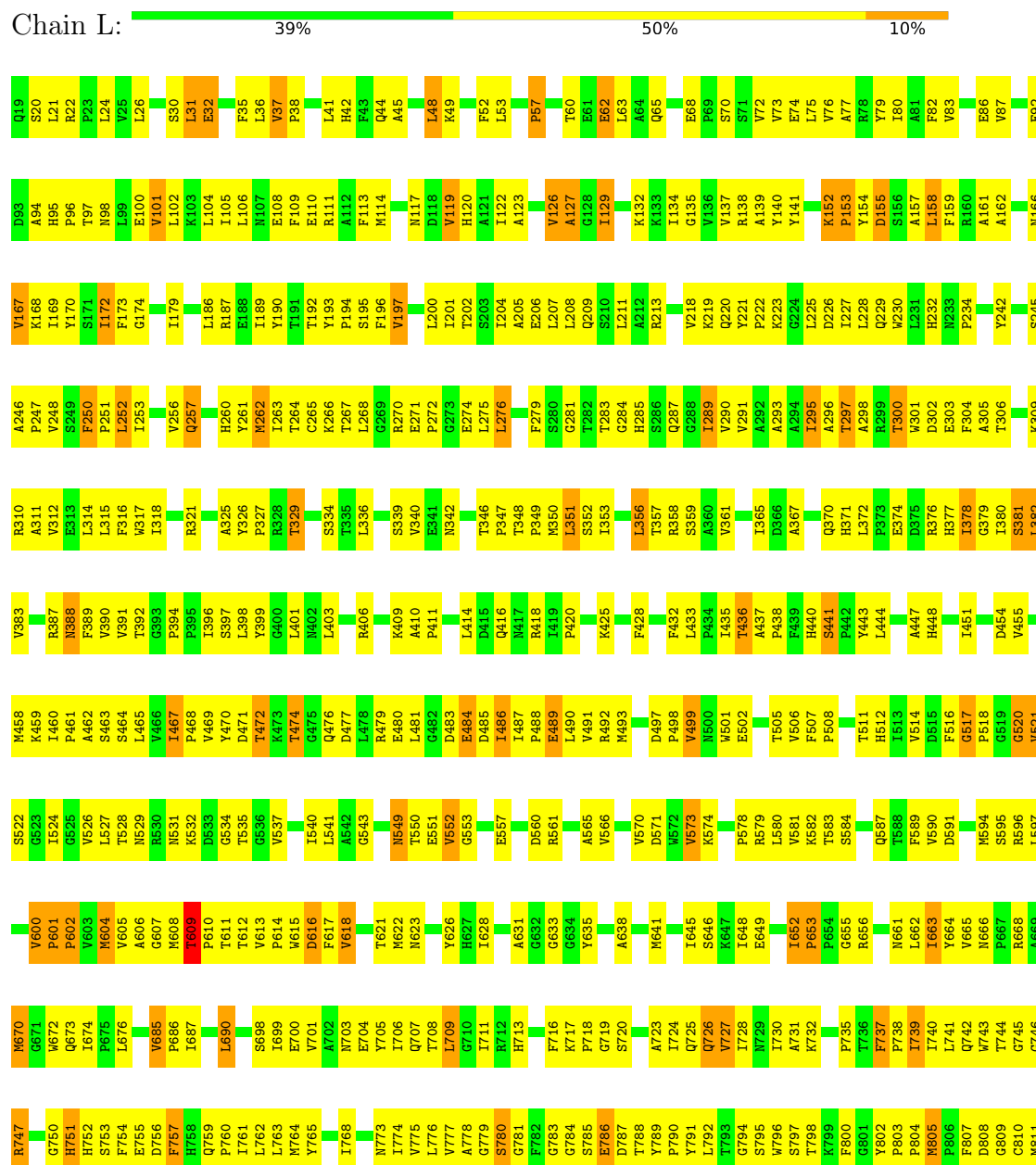
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PDB
PROTEIN DATA BANK



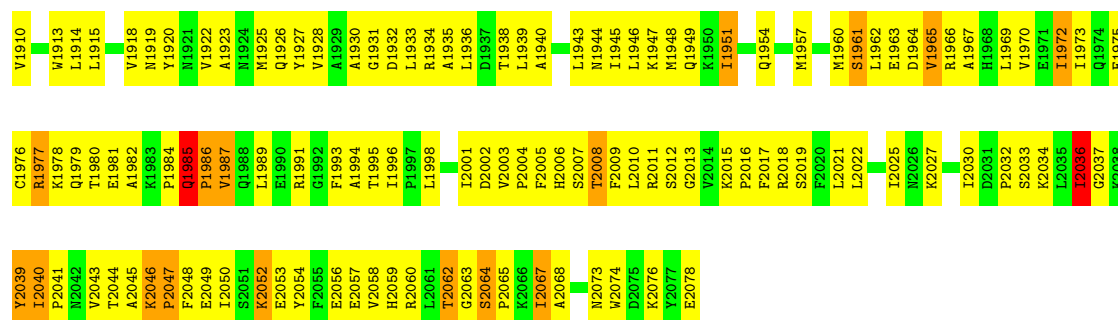
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S1858	E1701	K1779	L1859	E1701	V1540	E1621	V1540	K1776	L1860	L1622	V1622	M1454	L1376	Q1447	Q1447	H1375	E1314	K1235	L1163	I1086	F1016	V944	G809	
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L1901	L1743	L1811	L1900	L1743	L1575	V1649	L1480	L1812	L1901	M1649	V1649	Q1463	L1381	Q1447	Q1447	H1375	G1337	F1256	T1189	E1036	E967	K826	Q827	
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L1913	L1749	L1817	L1906	L1749	L1581	V1655	L1486	L1818	L1907	M1655	V1655	Q1463	L1381	Q1447	Q1447	H1375	G1343	F1262	Q1193	D1046	S972	K826	Q827	
L1915	L1750	L1818	L1907	L1750	L1582	V1656	L1487	L1819	L1908	M1656	V1656	Q1463	L1381	Q1447	Q1447	H1375	G1344	F1263	Q1194	D1046	S972	K826	Q827	
L1917	L1751	L1819	L1908	L1751	L1583	V1657	L1488	L1820	L1909	M1657	V1657	Q1463	L1381	Q1447	Q1447	H1375	G1345	F1264	Q1195	D1046	S972	K826	Q827	
L1919	L1752	L1820	L1909	L1752	L1584	V1658	L1489	L1821	L1910	M1658	V1658	Q1463	L1381	Q1447	Q1447	H1375	G1346	F1265	Q1196	D1046	S972	K826	Q827	
L1921	L1753	L1821	L1910	L1753	L1585	V1659	L1490	L1822	L1911	M1659	V1659	Q1463	L1381	Q1447	Q1447	H1375	G1347	F1266	Q1197	D1046	S972	K826	Q827	
L1923	L1754	L1822	L1911	L1754	L1586	V1660	L1491	L1823	L1912	M1660	V1660	Q1463	L1381	Q1447	Q1447	H1375	G1348	F1267	Q1198	D1046	S972	K826	Q827	
L1925	L1755	L1823	L1912	L1755	L1587	V1661	L1492	L1824	L1913	M1661	V1661	Q1463	L1381	Q1447	Q1447	H1375	G1349	F1268	Q1199	D1046	S972	K826	Q827	
L1927	L1756	L1824	L1913	L1756	L1588	V1662	L1493	L1825	L1914	M1662	V1662	Q1463	L1381	Q1447	Q1447	H1375	G1350	F1269	Q1200	D1046	S972	K826	Q827	
L1929	L1757	L1825	L1914	L1757	L1589	V1663	L1494	L1826	L1915	M1663	V1663	Q1463	L1381	Q1447	Q1447	H1375	G1351	F1270	Q1201	D1046	S972	K826	Q827	
L1931	L1758	L1826	L1915	L1758	L1590	V1664	L1495	L1827	L1916	M1664	V1664	Q1463	L1381	Q1447	Q1447	H1375	G1352	F1271	Q1202	D1046	S972	K826	Q827	
L1933	L1759	L1827	L1916	L1759	L1591	V1665	L1496	L1828	L1917	M1665	V1665	Q1463	L1381	Q1447	Q1447	H1375	G1353	F1272	Q1203	D1046	S972	K826	Q827	
L1935	L1760	L1828	L1917	L1760	L1592	V1666	L1497	L1829	L1918	M1666	V1666	Q1463	L1381	Q1447	Q1447	H1375	G1354	F1273	Q1204	D1046	S972	K826	Q827	
L1937	L1761	L1829	L1918	L1761	L1593	V1667	L1498	L1830	L1919	M1667	V1667	Q1463	L1381	Q1447	Q1447	H1375	G1355	F1274	Q1205	D1046	S972	K826	Q827	
L1939	L1762	L1830	L1919	L1762	L1594	V1668	L1499	L1831	L1920	M1668	V1668	Q1463	L1381	Q1447	Q1447	H1375	G1356	F1275	Q1206	D1046	S972	K826	Q827	
L1941	L1763	L1831	L1920	L1763	L1595	V1669	L1500	L1832	L1921	M1669	V1669	Q1463	L1381	Q1447	Q1447	H1375	G1357	F1276	Q1207	D1046	S972	K826	Q827	
L1943	L1764	L1832	L1921	L1764	L1596	V1670	L1501	L1833	L1922	M1670	V1670	Q1463	L1381	Q1447	Q1447	H1375	G1358	F1277	Q1208	D1046	S972	K826	Q827	
L1945	L1765	L1833	L1922	L1765	L1597	V1671	L1502	L1834	L1923	M1671	V1671	Q1463	L1381	Q1447	Q1447	H1375	G1359	F1278	Q1209	D1046	S972	K826	Q827	
L1947	L1766	L1834	L1923	L1766	L1598	V1672	L1503	L1835	L1924	M1672	V1672	Q1463	L1381	Q1447	Q1447	H1375	G1360	F1279	Q1210	D1046	S972	K826	Q827	
L1949	L1767	L1835	L1924	L1767	L1599	V1673	L1504	L1836	L1925	M1673	V1673	Q1463	L1381	Q1447	Q1447	H1375	G1361	F1280	Q1211	D1046	S972	K826	Q827	
L1951	L1768	L1836	L1925	L1768	L1600	V1674	L1505	L1837	L1926	M1674	V1674	Q1463	L1381	Q1447	Q1447	H1375	G1362	F1281	Q1212	D1046	S972	K826	Q827	
L1953	L1769	L1837	L1926	L1769	L1601	V1675	L1506	L1838	L1927	M1675	V1675	Q1463	L1381	Q1447	Q1447	H1375	G1363	F1282	Q1213	D1046	S972	K826	Q827	
L1955	L1770	L1838	L1927	L1770	L1602	V1676	L1507	L1839	L1928	M1676	V1676	Q1463	L1381	Q1447	Q1447	H1375	G1364	F1283	Q1214	D1046	S972	K826	Q827	
L1957	L1771	L1839	L1928	L1771	L1603	V1677	L1508	L1840	L1929	M1677	V1677	Q1463	L1381	Q1447	Q1447	H1375	G1365	F1284	Q1215	D1046	S972	K826	Q827	
L1959	L1772	L1840	L1929	L1772	L1604	V1678	L1509	L1841	L1930	M1678	V1678	Q1463	L1381	Q1447	Q1447	H1375	G1366	F1285	Q1216	D1046	S972	K826	Q827	
L1961	L1773	L1841	L1930	L1773	L1605	V1679	L1510	L1842	L1931	M1679	V1679	Q1463	L1381	Q1447	Q1447	H1375	G1367	F1286	Q1217	D1046	S972	K826	Q827	
L1963	L1774	L1842	L1931	L1774	L1606	V1680	L1511	L1843	L1932	M1680	V1680	Q1463	L1381	Q1447	Q1447	H1375	G1368	F1287	Q1218	D1046	S972	K826	Q827	
L1965	L1775	L1843	L1932	L1775	L1607	V1681	L1512	L1844	L1933	M1681	V1681	Q1463	L1381	Q1447	Q1447	H1375	G1369	F1288	Q1219	D1046	S972	K826	Q827	
L1967	L1776	L1844	L1933	L1776	L1608	V1682	L1513	L1845	L1934	M1682	V1682	Q1463	L1381	Q1447	Q1447	H1375	G1370	F1289	Q1220	D1046	S972	K826	Q827	
L1969	L1777	L1845	L1934	L1777	L1609	V1683	L1514	L1846	L1935	M1683	V1683	Q1463	L1381	Q1447	Q1447	H1375	G1371	F1290	Q122					



• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



A1846	T1768	P1688	M1610	D1529	M1454	P1384	V1287	M1167	I1086	L1018	V950	E878	S814
L1847	V1769	V1689	Y1611	Y1530	Q1455	P1388	G1238	S1168	L1087	L1019	Y951	K882	R815
A1848	M1770	L1690	T1612	G1533	L1456	L1389	D1239	V1169	D1088	Q1020	P952	I883	M816
M1851	S1774	Y1692	V1616	G1537	H1457	L1390	N1240	Y1171	G1089	Q1021	P953	T817	M818
P1852	K1776	Q1700	R1617	N1538	T1460	V1391	I1242	R1172	H1091	R1022	Y955	D867	M819
I1853	Q1701	E1701	V1620	P1539	P1461	G1392	A1243	H1173	D1092	R1023	K956	R868	A819
E1854	K1779	E1621	E1621	P1540	Q1462	D1393	L1244	A1174	D1093	K1026	T959	S869	K820
S1855	L1780	M1704	W1623	V1540	D1463	V1394	L1245	M1175	H1094	P1027	T959	R899	A822
L1856	F1781	G1705	W1623	I1541	L1464	L1395	F1246	F1176	I1095	P1029	F962	R891	H823
L1857	M1706	G1705	W1623	D1542	A1465	D1396	L1247	T1177	K1096	F1030	F963	E894	T824
S1858	D1707	Y1543	V1467	Y1543	V1466	T1397	E1248	T1178	F1097	F1031	R964	K897	S825
V1859	E1783	L1708	R1468	S1550	R1468	Q1400	R1250	E1179	L1098	P1032	R965	R898	K826
V1860	T1789	Y1709	S1469	I1551	S1469	I1401	T1251	V1180	L1099	A1033	V966	R899	Q827
F1861	Y1792	K1716	E1552	E1552	N1402	N1402	T1251	F1181	R1100	E1036	E967	R899	Q827
L1865	S1795	R1721	V1632	Q1553	W1472	A1403	P1257	R1186	Y1103	E1036	E968	D900	A828
T1866	S1795	R1722	R1633	Q1553	F1473	V1404	V1258	F1187	D1104	W1041	R969	K901	K830
M1867	A1723	A1723	S1634	P1555	K1474	I1405	L1259	Q1188	G1105	K1041	F970	I902	A831
Q1868	K1723	K1723	W1633	P1560	L1475	N1406	F1280	T1189	K1106	K1044	T971	I903	I832
L1799	K1724	K1724	H1636	I1561	T1481	S1409	F1281	M1190	E1107	K1045	E974	K904	V833
V1869	K1725	K1725	P1637	P1562	E1482	G1410	R1262	P1191	V1110	D1045	S977	K905	D834
S1801	F1726	F1726	L1483	L1563	L1483	K1411	F1263	L1192	V1112	S1046	L979	L906	A835
V1871	R1727	R1727	L1484	M1412	L1484	M1412	Y1265	F1196	W1113	Q1049	L979	N907	P836
A1802	M1639	G1565	L1484	M1412	L1484	M1412	H1266	F1197	E1114	S1050	L979	D908	G837
T1803	M1642	K1566	T1487	C1416	T1487	C1416	E1267	F1198	F1116	D1062	L981	D909	V838
Q1804	W1643	K1567	R1491	K1420	R1491	K1420	E1269	P1199	F1116	I1063	L986	F910	D840
F1805	L1492	P1568	R1492	R1421	L1492	R1421	G1270	T1199	F1116	E1051	L986	Q911	D841
K1806	M1646	P1574	V1496	R1421	V1496	R1421	Y1271	R1200	R1119	D1062	L986	K912	D841
T1807	I1735	P1574	R1497	K1424	R1497	K1424	A1272	R1200	R1119	I1063	D987	W914	Q842
S1808	K1738	K1738	R1497	K1424	R1497	K1424	P1273	Y1203	I1120	Y1057	E983	F915	W843
A1809	K1739	K1739	F1498	P1425	F1498	P1425	R1275	V1204	A1123	G1058	P989	F915	E844
L1810	N1740	N1740	K1499	V1426	K1499	V1426	R1275	E1205	T1123	Q1059	P991	K916	N845
M1813	P1742	P1742	M1500	M1427	M1500	M1427	M1278	I1206	D1125	D1060	A992	R917	Y847
A1814	K1743	K1743	V1503	Y1428	V1503	Y1428	E1279	T1207	E1126	V1061	V993	N918	Y847
F1818	L1745	L1745	Y1504	V1439	Y1504	V1439	G1280	M1208	E1127	R1063	D994	V924	T851
E1819	G1657	G1657	S1505	Q1432	S1505	Q1432	R1281	P1209	P1128	T1066	R995	D925	D925
S1820	M1658	M1658	S1506	Q1432	S1506	Q1432	R1281	P1209	P1128	T1066	R995	L926	L926
D1820	I1659	I1659	V1507	F1433	V1507	F1433	F1288	P1212	L1133	I1066	L997	E927	E927
R1822	F1749	F1749	M1588	L1434	M1588	L1434	Y1289	P1212	L1133	I1066	L997	D928	D928
S1823	G1750	G1750	I1510	Y1435	I1510	Y1435	Y1290	T1215	A1135	Q1068	Y1000	M929	M929
K1824	P1752	P1752	V1513	G1437	V1513	G1437	R1291	I1217	D1138	P1070	P1001	T930	T930
L1826	G1754	G1754	L1514	Y1438	L1514	Y1438	V1292	S1218	K1141	A1072	E1002	Y931	S859
K1755	K1755	K1755	L1515	Y1439	L1515	Y1439	W1293	V1219	I1142	A1003	E933	A932	E860
I1757	I1757	I1757	F1516	F1516	F1516	F1516	V1299	R1220	I1142	A1073	V935	A932	E860
L1758	L1758	L1758	L1517	D1441	L1517	D1441	P1300	Q1224	S1143	K1074	Q1006	Y931	L858
Q1759	Q1759	Q1759	P1518	Y1442	P1518	Y1442	F1301	Q1224	S1143	Y1075	Q1006	Y931	L858
F1833	T1674	T1674	T1519	E1443	T1519	E1443	L1305	S1225	L1146	S1076	I1008	M938	I865
G1835	D1675	D1675	K1520	N1444	K1520	N1444	L1376	L1305	D1156	K1077	I1009	K867	I865
L1836	E1676	E1676	E1521	T1445	E1521	T1445	W1293	L1305	D1156	V1078	A1010	L941	L868
G1839	M1762	M1762	I1522	F1446	I1522	F1446	F1309	K1230	V1157	I1079	Q1011	M942	A869
E1840	G1604	G1604	I1523	Q1447	I1523	Q1447	D1310	V1232	D1158	D1080	D1012	Y943	T870
Y1841	L1679	L1679	Q1524	R1448	Q1524	R1448	G1311	E1233	F1180	F1082	Q1014	V944	R871
L1844	F1766	F1766	V1525	V1452	V1525	V1452	E1314	I1234	F1180	I1083	F1015	K945	K945
V1845	E1684	E1684	V1528	P1453	V1528	P1453	L1315	L1236	I1164	I1083	F1015	H946	H946
												E947	W875
												K1084	W876
												K877	K877



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 12.00 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.7 (12.00-3.10) 98.0 (12.00-3.10)	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	Depositor
R, R_{free}	0.270 , 0.300 0.251 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	66.0	Xtriage
Anisotropy	0.182	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.20 , 0.0	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	0.90	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: NAP, FMN

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	0.55	0/11744	0.94	35/15873 (0.2%)
1	B	0.54	0/11801	0.93	33/15949 (0.2%)
1	C	0.55	0/11785	0.94	34/15928 (0.2%)
1	D	0.52	0/11824	0.94	29/15980 (0.2%)
1	E	0.53	0/11736	0.93	27/15863 (0.2%)
1	F	0.57	0/11776	0.95	46/15916 (0.3%)
2	G	0.47	0/16573	0.89	38/22516 (0.2%)
2	H	0.45	0/16573	0.90	29/22516 (0.1%)
2	I	0.45	0/16573	0.90	37/22516 (0.2%)
2	J	0.44	0/16573	0.90	33/22516 (0.1%)
2	K	0.48	0/16573	0.92	33/22516 (0.1%)
2	L	0.46	1/16573 (0.0%)	0.90	35/22516 (0.2%)
All	All	0.50	1/170104 (0.0%)	0.92	409/230605 (0.2%)

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

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	L	1125	ASP	CA-C	-6.61	1.47	1.53

All (409) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	802	SER	CA-C-N	10.07	129.87	119.19
1	C	802	SER	C-N-CA	10.07	129.87	119.19
1	F	1107	GLU	CA-C-N	10.02	130.08	119.76
1	F	1107	GLU	C-N-CA	10.02	130.08	119.76
1	D	1107	GLU	CA-C-N	9.97	130.03	119.76
1	D	1107	GLU	C-N-CA	9.97	130.03	119.76
1	C	1107	GLU	CA-C-N	9.73	129.78	119.76
1	C	1107	GLU	C-N-CA	9.73	129.78	119.76
1	B	1107	GLU	CA-C-N	9.68	129.44	119.76
1	B	1107	GLU	C-N-CA	9.68	129.44	119.76
1	A	1107	GLU	CA-C-N	9.41	129.45	119.76
1	A	1107	GLU	C-N-CA	9.41	129.45	119.76
1	E	1107	GLU	CA-C-N	9.21	129.24	119.76
1	E	1107	GLU	C-N-CA	9.21	129.24	119.76
1	D	802	SER	CA-C-N	9.13	128.87	119.19
1	D	802	SER	C-N-CA	9.13	128.87	119.19
1	F	585	MET	N-CA-C	9.10	136.48	111.00
2	I	1985	GLN	CA-C-N	8.99	131.08	119.84
2	I	1985	GLN	C-N-CA	8.99	131.08	119.84
1	B	802	SER	CA-C-N	8.95	128.67	119.19
1	B	802	SER	C-N-CA	8.95	128.67	119.19
1	F	612	ILE	CA-C-N	8.84	130.89	119.84
1	F	612	ILE	C-N-CA	8.84	130.89	119.84
2	K	1985	GLN	CA-C-N	8.81	130.85	119.84
2	K	1985	GLN	C-N-CA	8.81	130.85	119.84
1	B	608	LYS	N-CA-C	-8.62	86.85	111.00
2	L	1985	GLN	CA-C-N	8.52	130.49	119.84
2	L	1985	GLN	C-N-CA	8.52	130.49	119.84
2	J	1985	GLN	CA-C-N	8.48	130.44	119.84
2	J	1985	GLN	C-N-CA	8.48	130.44	119.84
2	H	1985	GLN	CA-C-N	8.46	130.41	119.84
2	H	1985	GLN	C-N-CA	8.46	130.41	119.84
2	G	2046	LYS	CA-C-N	8.34	130.27	119.84
2	G	2046	LYS	C-N-CA	8.34	130.27	119.84
2	G	1985	GLN	CA-C-N	8.34	130.26	119.84
2	G	1985	GLN	C-N-CA	8.34	130.26	119.84
2	J	2046	LYS	CA-C-N	7.82	129.61	119.84
2	J	2046	LYS	C-N-CA	7.82	129.61	119.84
1	F	614	PHE	N-CA-C	7.75	127.30	110.80
1	B	483	LYS	CA-C-N	7.73	128.34	120.38
1	B	483	LYS	C-N-CA	7.73	128.34	120.38
2	K	2046	LYS	CA-C-N	7.63	129.38	119.84
2	K	2046	LYS	C-N-CA	7.63	129.38	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	2046	LYS	CA-C-N	7.62	129.36	119.84
2	I	2046	LYS	C-N-CA	7.62	129.36	119.84
2	H	2046	LYS	CA-C-N	7.53	129.25	119.84
2	H	2046	LYS	C-N-CA	7.53	129.25	119.84
1	A	483	LYS	CA-C-N	7.49	128.10	120.38
1	A	483	LYS	C-N-CA	7.49	128.10	120.38
1	A	802	SER	CA-C-N	7.40	129.09	119.84
1	A	802	SER	C-N-CA	7.40	129.09	119.84
1	A	1638	HIS	CA-C-N	7.33	129.00	119.84
1	A	1638	HIS	C-N-CA	7.33	129.00	119.84
1	E	1638	HIS	CA-C-N	7.32	128.99	119.84
1	E	1638	HIS	C-N-CA	7.32	128.99	119.84
1	E	802	SER	CA-C-N	7.30	128.97	119.84
1	E	802	SER	C-N-CA	7.30	128.97	119.84
1	F	802	SER	CA-C-N	7.27	128.93	119.84
1	F	802	SER	C-N-CA	7.27	128.93	119.84
1	C	483	LYS	CA-C-N	7.22	127.82	120.38
1	C	483	LYS	C-N-CA	7.22	127.82	120.38
2	K	1803	THR	N-CA-C	7.15	119.07	111.28
2	L	2046	LYS	CA-C-N	7.06	128.66	119.84
2	L	2046	LYS	C-N-CA	7.06	128.66	119.84
2	H	1803	THR	N-CA-C	7.01	118.92	111.28
1	F	613	PRO	CB-CA-C	7.00	123.11	111.56
1	A	1003	GLY	CA-C-N	6.90	126.60	119.56
1	A	1003	GLY	C-N-CA	6.90	126.60	119.56
2	K	1171	TRP	N-CA-C	-6.90	103.69	111.14
2	G	1565	GLY	N-CA-C	-6.89	103.99	112.33
1	C	1342	ARG	CA-C-N	6.89	127.17	119.32
1	C	1342	ARG	C-N-CA	6.89	127.17	119.32
1	F	1003	GLY	CA-C-N	6.88	126.57	119.56
1	F	1003	GLY	C-N-CA	6.88	126.57	119.56
2	J	909	ASP	N-CA-C	6.84	118.65	110.44
1	C	1638	HIS	CA-C-N	6.84	128.39	119.84
1	C	1638	HIS	C-N-CA	6.84	128.39	119.84
2	K	1565	GLY	N-CA-C	-6.80	104.10	112.33
2	J	1000	TYR	CA-C-N	6.79	128.32	119.84
2	J	1000	TYR	C-N-CA	6.79	128.32	119.84
1	D	1342	ARG	CA-C-N	6.76	127.02	119.32
1	D	1342	ARG	C-N-CA	6.76	127.02	119.32
1	E	1150	ILE	CA-C-N	6.75	126.71	119.76
1	E	1150	ILE	C-N-CA	6.75	126.71	119.76
2	G	1171	TRP	N-CA-C	-6.74	103.86	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	1000	TYR	CA-C-N	6.72	128.24	119.84
2	I	1000	TYR	C-N-CA	6.72	128.24	119.84
1	F	611	THR	N-CA-C	6.70	118.30	108.86
1	D	483	LYS	CA-C-N	6.68	127.26	120.38
1	D	483	LYS	C-N-CA	6.68	127.26	120.38
1	F	613	PRO	CA-C-N	6.68	134.30	121.54
1	F	613	PRO	C-N-CA	6.68	134.30	121.54
1	B	676	GLY	N-CA-C	-6.67	102.11	112.85
1	C	48	GLY	CA-C-N	6.66	126.37	119.64
1	C	48	GLY	C-N-CA	6.66	126.37	119.64
2	L	909	ASP	N-CA-C	6.64	118.41	110.44
1	D	48	GLY	CA-C-N	6.64	126.34	119.64
1	D	48	GLY	C-N-CA	6.64	126.34	119.64
2	H	909	ASP	N-CA-C	6.62	118.38	110.44
2	L	1803	THR	N-CA-C	6.61	119.31	111.71
2	I	685	VAL	CA-C-N	6.60	128.09	119.84
2	I	685	VAL	C-N-CA	6.60	128.09	119.84
2	K	1000	TYR	CA-C-N	6.56	128.04	119.84
2	K	1000	TYR	C-N-CA	6.56	128.04	119.84
1	A	689	ARG	N-CA-C	-6.55	104.06	111.14
2	H	1565	GLY	N-CA-C	-6.55	104.41	112.33
1	B	1638	HIS	CA-C-N	6.51	127.97	119.84
1	B	1638	HIS	C-N-CA	6.51	127.97	119.84
2	I	1803	THR	N-CA-C	6.50	119.37	111.82
2	H	1000	TYR	CA-C-N	6.49	127.95	119.84
2	H	1000	TYR	C-N-CA	6.49	127.95	119.84
2	L	1000	TYR	CA-C-N	6.48	127.94	119.84
2	L	1000	TYR	C-N-CA	6.48	127.94	119.84
1	F	613	PRO	CA-C-O	-6.46	108.85	120.60
1	A	744	VAL	CA-C-N	6.46	127.91	119.84
1	A	744	VAL	C-N-CA	6.46	127.91	119.84
1	F	1339	GLU	N-CA-C	-6.45	105.51	113.19
1	C	676	GLY	N-CA-C	-6.42	102.51	112.85
2	L	517	GLY	CA-C-N	6.42	126.34	119.85
2	L	517	GLY	C-N-CA	6.42	126.34	119.85
2	I	909	ASP	N-CA-C	6.38	118.09	110.44
1	D	1638	HIS	CA-C-N	6.36	127.79	119.84
1	D	1638	HIS	C-N-CA	6.36	127.79	119.84
1	C	1003	GLY	CA-C-N	6.36	126.05	119.56
1	C	1003	GLY	C-N-CA	6.36	126.05	119.56
1	E	483	LYS	CA-C-N	6.35	126.92	120.38
1	E	483	LYS	C-N-CA	6.35	126.92	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	685	VAL	CA-C-N	6.30	127.72	119.84
2	J	685	VAL	C-N-CA	6.30	127.72	119.84
1	B	48	GLY	CA-C-N	6.30	126.01	119.64
1	B	48	GLY	C-N-CA	6.30	126.01	119.64
2	I	1171	TRP	N-CA-C	-6.29	104.51	111.36
1	C	1175	VAL	CA-C-N	6.29	126.23	119.76
1	C	1175	VAL	C-N-CA	6.29	126.23	119.76
1	F	483	LYS	CA-C-N	6.27	126.84	120.38
1	F	483	LYS	C-N-CA	6.27	126.84	120.38
1	B	1339	GLU	N-CA-C	-6.27	105.73	113.19
1	A	1342	ARG	CA-C-N	6.26	126.45	119.32
1	A	1342	ARG	C-N-CA	6.26	126.45	119.32
2	L	1171	TRP	N-CA-C	-6.26	104.38	111.14
1	F	1638	HIS	CA-C-N	6.22	127.62	119.84
1	F	1638	HIS	C-N-CA	6.22	127.62	119.84
1	A	1150	ILE	CA-C-N	6.22	126.17	119.76
1	A	1150	ILE	C-N-CA	6.22	126.17	119.76
2	J	1565	GLY	N-CA-C	-6.21	104.82	112.33
2	G	1000	TYR	CA-C-N	6.20	127.59	119.84
2	G	1000	TYR	C-N-CA	6.20	127.59	119.84
1	D	689	ARG	N-CA-C	-6.17	103.88	111.40
2	H	517	GLY	CA-C-N	6.16	126.07	119.85
2	H	517	GLY	C-N-CA	6.16	126.07	119.85
1	C	798	ILE	N-CA-C	6.13	112.77	106.21
2	G	1803	THR	N-CA-C	6.13	118.93	111.82
2	I	517	GLY	CA-C-N	6.12	126.03	119.85
2	I	517	GLY	C-N-CA	6.12	126.03	119.85
1	E	1342	ARG	CA-C-N	6.11	126.28	119.32
1	E	1342	ARG	C-N-CA	6.11	126.28	119.32
2	K	737	PHE	CA-C-N	6.10	127.47	119.84
2	K	737	PHE	C-N-CA	6.10	127.47	119.84
1	B	1003	GLY	CA-C-N	6.10	125.78	119.56
1	B	1003	GLY	C-N-CA	6.10	125.78	119.56
1	B	1211	LYS	N-CA-C	-6.08	105.51	113.12
2	K	437	ALA	CA-C-N	6.06	127.41	119.84
2	K	437	ALA	C-N-CA	6.06	127.41	119.84
2	K	2040	ILE	N-CA-C	6.06	113.55	107.55
2	G	737	PHE	CA-C-N	6.05	127.40	119.84
2	G	737	PHE	C-N-CA	6.05	127.40	119.84
1	D	676	GLY	N-CA-C	-6.04	103.12	112.85
1	D	555	GLN	N-CA-C	-6.04	106.89	114.56
2	H	1010	ALA	N-CA-C	-6.03	104.70	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	612	ILE	CA-C-N	6.02	127.37	119.84
1	E	612	ILE	C-N-CA	6.02	127.37	119.84
1	E	749	ILE	CB-CA-C	-5.99	104.32	110.13
2	I	601	PRO	CA-C-N	5.99	127.33	119.84
2	I	601	PRO	C-N-CA	5.99	127.33	119.84
1	D	1105	ASP	N-CA-C	-5.98	101.64	110.48
2	J	517	GLY	CA-C-N	5.97	125.88	119.85
2	J	517	GLY	C-N-CA	5.97	125.88	119.85
1	C	611	THR	N-CA-C	5.96	119.12	109.40
2	G	517	GLY	CA-C-N	5.96	125.87	119.85
2	G	517	GLY	C-N-CA	5.96	125.87	119.85
2	G	685	VAL	CA-C-N	5.96	127.29	119.84
2	G	685	VAL	C-N-CA	5.96	127.29	119.84
2	G	805	MET	CA-C-N	5.95	126.26	119.83
2	G	805	MET	C-N-CA	5.95	126.26	119.83
1	F	1211	LYS	N-CA-C	-5.95	105.68	113.12
2	L	737	PHE	CA-C-N	5.95	127.28	119.84
2	L	737	PHE	C-N-CA	5.95	127.28	119.84
2	H	737	PHE	CA-C-N	5.95	127.28	119.84
2	H	737	PHE	C-N-CA	5.95	127.28	119.84
1	A	1339	GLU	N-CA-C	-5.93	106.13	113.19
2	I	1563	LEU	N-CA-C	-5.93	105.04	112.93
2	J	1803	THR	N-CA-C	5.93	118.53	111.71
1	B	1342	ARG	CA-C-N	5.92	126.07	119.32
1	B	1342	ARG	C-N-CA	5.92	126.07	119.32
2	K	1265	TYR	N-CA-C	5.92	118.04	107.80
2	I	1265	TYR	N-CA-C	5.92	118.03	107.80
1	F	1150	ILE	CA-C-N	5.91	125.84	119.76
1	F	1150	ILE	C-N-CA	5.91	125.84	119.76
1	A	612	ILE	CA-C-N	5.89	127.21	119.84
1	A	612	ILE	C-N-CA	5.89	127.21	119.84
1	B	689	ARG	N-CA-C	-5.89	104.21	111.40
2	L	601	PRO	CA-C-N	5.87	127.18	119.84
2	L	601	PRO	C-N-CA	5.87	127.18	119.84
2	I	326	TYR	CA-C-N	5.86	125.83	120.21
2	I	326	TYR	C-N-CA	5.86	125.83	120.21
2	G	601	PRO	CA-C-N	5.85	127.16	119.84
2	G	601	PRO	C-N-CA	5.85	127.16	119.84
1	C	612	ILE	N-CA-C	5.82	114.23	107.89
1	F	676	GLY	N-CA-C	-5.82	103.49	112.85
1	A	555	GLN	N-CA-C	-5.81	107.18	114.56
1	D	1003	GLY	CA-C-N	5.81	125.49	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1003	GLY	C-N-CA	5.81	125.49	119.56
2	I	1010	ALA	N-CA-C	-5.81	104.94	111.28
1	E	1003	GLY	CA-C-N	5.81	125.48	119.56
1	E	1003	GLY	C-N-CA	5.81	125.48	119.56
2	L	1010	ALA	N-CA-C	-5.81	104.95	111.28
1	F	1342	ARG	CA-C-N	5.80	125.94	119.32
1	F	1342	ARG	C-N-CA	5.80	125.94	119.32
1	F	1090	ASP	CA-C-N	5.80	125.48	119.56
1	F	1090	ASP	C-N-CA	5.80	125.48	119.56
2	K	562	ASP	N-CA-C	5.79	117.80	110.33
1	F	48	GLY	CA-C-N	5.78	125.48	119.64
1	F	48	GLY	C-N-CA	5.78	125.48	119.64
2	G	1190	ASN	CA-C-N	5.75	125.42	119.56
2	G	1190	ASN	C-N-CA	5.75	125.42	119.56
2	L	441	SER	CA-C-N	5.75	127.02	119.84
2	L	441	SER	C-N-CA	5.75	127.02	119.84
2	I	441	SER	CA-C-N	5.74	127.02	119.84
2	I	441	SER	C-N-CA	5.74	127.02	119.84
2	L	1563	LEU	N-CA-C	-5.74	106.32	113.55
1	D	798	ILE	N-CA-C	5.73	112.34	106.21
2	I	805	MET	CA-C-N	5.73	126.02	119.83
2	I	805	MET	C-N-CA	5.73	126.02	119.83
2	H	601	PRO	CA-C-N	5.73	127.00	119.84
2	H	601	PRO	C-N-CA	5.73	127.00	119.84
1	A	1211	LYS	N-CA-C	-5.73	105.96	113.12
1	E	555	GLN	N-CA-C	-5.72	107.29	114.56
2	K	1592	VAL	N-CA-C	5.72	116.93	112.12
2	I	737	PHE	CA-C-N	5.72	126.62	119.98
2	I	737	PHE	C-N-CA	5.72	126.62	119.98
2	H	1265	TYR	N-CA-C	5.72	117.69	107.80
2	G	1138	ASP	CB-CA-C	-5.70	107.28	114.40
2	J	1265	TYR	N-CA-C	5.69	117.64	107.80
1	E	748	ALA	N-CA-C	5.68	117.74	108.76
1	C	1150	ILE	CA-C-N	5.68	125.63	119.78
1	C	1150	ILE	C-N-CA	5.68	125.63	119.78
2	G	1265	TYR	N-CA-C	5.68	117.63	107.80
2	L	1265	TYR	N-CA-C	5.68	117.63	107.80
1	E	1211	LYS	N-CA-C	-5.67	106.03	113.12
2	L	2040	ILE	N-CA-C	5.67	113.16	107.55
1	F	585	MET	CA-C-O	5.66	130.41	120.80
1	D	748	ALA	N-CA-C	5.65	117.68	108.76
2	H	1171	TRP	N-CA-C	-5.64	105.05	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	2003	VAL	N-CA-C	5.63	114.69	108.05
2	L	1565	GLY	N-CA-C	-5.61	104.50	112.81
1	C	1211	LYS	N-CA-C	-5.60	106.11	113.12
2	I	1031	VAL	CA-C-N	5.60	126.84	119.84
2	I	1031	VAL	C-N-CA	5.60	126.84	119.84
1	A	392	ASP	CA-C-N	5.60	126.84	119.84
1	A	392	ASP	C-N-CA	5.60	126.84	119.84
1	D	612	ILE	CA-C-N	5.60	126.84	119.84
1	D	612	ILE	C-N-CA	5.60	126.84	119.84
1	B	442	PRO	N-CA-C	-5.59	105.47	113.47
1	A	1105	ASP	N-CA-C	-5.59	102.21	110.48
1	A	486	VAL	N-CA-C	5.59	116.72	108.45
2	G	1592	VAL	N-CA-C	5.58	116.81	112.12
1	F	748	ALA	N-CA-C	5.56	117.54	108.76
2	J	1010	ALA	N-CA-C	-5.56	105.22	111.28
1	A	748	ALA	N-CA-C	5.55	117.53	108.76
1	E	1339	GLU	N-CA-C	-5.54	106.59	113.19
2	H	1138	ASP	CB-CA-C	-5.54	107.47	114.40
2	I	419	ILE	CB-CA-C	-5.54	104.76	110.13
2	I	1565	GLY	N-CA-C	-5.52	104.64	112.81
2	K	517	GLY	CA-C-N	5.50	125.41	119.85
2	K	517	GLY	C-N-CA	5.50	125.41	119.85
2	L	152	LYS	CA-C-N	5.50	126.72	119.84
2	L	152	LYS	C-N-CA	5.50	126.72	119.84
1	C	748	ALA	N-CA-C	5.49	117.44	108.76
1	D	1339	GLU	N-CA-C	-5.49	106.66	113.19
2	J	1138	ASP	CB-CA-C	-5.47	107.56	114.40
2	H	152	LYS	CA-C-N	5.46	126.67	119.84
2	H	152	LYS	C-N-CA	5.46	126.67	119.84
1	B	534	GLN	N-CA-C	-5.46	103.32	110.53
2	I	2032	PRO	N-CA-C	-5.45	106.75	113.84
2	J	737	PHE	CA-C-N	5.44	126.64	119.84
2	J	737	PHE	C-N-CA	5.44	126.64	119.84
1	B	1175	VAL	CA-C-N	5.44	125.36	119.76
1	B	1175	VAL	C-N-CA	5.44	125.36	119.76
1	F	1105	ASP	N-CA-C	-5.43	102.44	110.48
2	L	805	MET	CA-C-N	5.43	125.69	119.83
2	L	805	MET	C-N-CA	5.43	125.69	119.83
1	F	1175	VAL	CA-C-N	5.41	125.33	119.76
1	F	1175	VAL	C-N-CA	5.41	125.33	119.76
2	H	441	SER	CA-C-N	5.41	126.60	119.84
2	H	441	SER	C-N-CA	5.41	126.60	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	1563	LEU	N-CA-C	-5.41	105.73	112.93
1	A	1082	GLU	CA-C-N	5.40	125.04	119.05
1	A	1082	GLU	C-N-CA	5.40	125.04	119.05
1	C	754	ARG	N-CA-C	5.40	117.70	108.90
1	F	967	PHE	CA-C-N	-5.40	114.22	119.78
1	F	967	PHE	C-N-CA	-5.40	114.22	119.78
2	J	441	SER	CA-C-N	5.39	126.58	119.84
2	J	441	SER	C-N-CA	5.39	126.58	119.84
2	H	2032	PRO	N-CA-C	-5.39	107.03	113.98
2	G	437	ALA	CA-C-N	5.38	126.56	119.84
2	G	437	ALA	C-N-CA	5.38	126.56	119.84
1	B	383	TYR	N-CA-C	-5.35	105.53	111.36
2	J	1563	LEU	N-CA-C	-5.34	105.82	112.93
2	L	1126	GLU	N-CA-C	-5.34	106.71	113.23
1	A	1258	MET	N-CA-C	-5.34	105.15	110.97
2	I	152	LYS	CA-C-N	5.34	126.52	119.84
2	I	152	LYS	C-N-CA	5.34	126.52	119.84
1	E	392	ASP	CA-C-N	5.33	126.50	119.84
1	E	392	ASP	C-N-CA	5.33	126.50	119.84
2	I	1138	ASP	CB-CA-C	-5.33	107.74	114.40
2	G	909	ASP	N-CA-C	5.31	117.67	110.88
2	J	1031	VAL	CA-C-N	5.30	126.47	119.84
2	J	1031	VAL	C-N-CA	5.30	126.47	119.84
2	L	2032	PRO	N-CA-C	-5.30	106.95	113.84
2	J	601	PRO	CA-C-N	5.30	126.46	119.84
2	J	601	PRO	C-N-CA	5.30	126.46	119.84
1	E	676	GLY	N-CA-C	-5.29	104.42	112.51
2	G	988	GLU	CA-C-N	5.29	126.45	119.84
2	G	988	GLU	C-N-CA	5.29	126.45	119.84
1	D	1211	LYS	N-CA-C	-5.28	106.52	113.12
1	B	392	ASP	CA-C-N	5.28	126.44	119.84
1	B	392	ASP	C-N-CA	5.28	126.44	119.84
1	D	388	GLU	CA-C-N	5.27	125.27	119.89
1	D	388	GLU	C-N-CA	5.27	125.27	119.89
1	F	749	ILE	CA-C-N	5.27	126.42	119.84
1	F	749	ILE	C-N-CA	5.27	126.42	119.84
1	F	1082	GLU	CA-C-N	5.27	124.90	119.05
1	F	1082	GLU	C-N-CA	5.27	124.90	119.05
2	J	1171	TRP	N-CA-C	-5.26	105.46	111.14
2	K	1877	GLY	N-CA-C	-5.25	108.07	115.32
2	L	1877	GLY	N-CA-C	-5.25	108.08	115.32
1	C	388	GLU	CA-C-N	5.24	125.24	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	388	GLU	C-N-CA	5.24	125.24	119.89
2	K	1138	ASP	CB-CA-C	-5.24	107.85	114.40
2	G	1351	VAL	N-CA-C	-5.24	106.58	111.45
2	G	1877	GLY	N-CA-C	-5.24	108.09	115.32
1	C	442	PRO	N-CA-C	-5.22	106.00	113.47
2	G	2032	PRO	N-CA-C	-5.22	107.05	113.84
2	J	1139	ALA	N-CA-C	-5.22	106.91	113.28
2	L	1538	ASN	CA-C-N	5.21	124.88	119.56
2	L	1538	ASN	C-N-CA	5.21	124.88	119.56
2	J	1346	MET	N-CA-C	-5.20	106.77	113.01
1	A	579	MET	N-CA-C	5.20	125.55	111.00
1	B	1150	ILE	CA-C-N	5.20	125.11	119.76
1	B	1150	ILE	C-N-CA	5.20	125.11	119.76
2	H	1592	VAL	N-CA-C	5.18	116.48	112.12
2	I	2043	VAL	N-CA-C	-5.18	107.78	112.96
1	D	486	VAL	N-CA-C	5.18	116.12	108.45
1	B	748	ALA	N-CA-C	5.18	116.94	108.76
1	E	1082	GLU	CA-C-N	5.17	124.79	119.05
1	E	1082	GLU	C-N-CA	5.17	124.79	119.05
1	C	1105	ASP	N-CA-C	-5.17	102.83	110.48
1	E	854	SER	N-CA-C	5.17	116.72	111.14
1	B	1105	ASP	N-CA-C	-5.17	102.84	110.48
2	K	1010	ALA	N-CA-C	-5.16	105.09	111.33
1	A	1275	THR	CA-C-N	5.15	126.28	119.84
1	A	1275	THR	C-N-CA	5.15	126.28	119.84
2	L	1138	ASP	CB-CA-C	-5.15	107.96	114.40
2	K	1190	ASN	CA-C-N	5.13	124.80	119.56
2	K	1190	ASN	C-N-CA	5.13	124.80	119.56
1	C	1082	GLU	CA-C-N	5.13	124.74	119.05
1	C	1082	GLU	C-N-CA	5.13	124.74	119.05
1	F	585	MET	CB-CA-C	-5.13	100.36	110.10
2	J	2032	PRO	N-CA-C	-5.12	107.19	113.84
2	K	909	ASP	N-CA-C	5.12	117.43	110.88
2	G	180	GLU	N-CA-C	-5.11	106.45	113.30
2	G	1031	VAL	CA-C-N	5.11	126.23	119.84
2	G	1031	VAL	C-N-CA	5.11	126.23	119.84
1	A	530	GLY	CA-C-N	5.10	126.22	119.84
1	A	530	GLY	C-N-CA	5.10	126.22	119.84
2	J	1266	HIS	CA-C-N	5.09	126.20	119.84
2	J	1266	HIS	C-N-CA	5.09	126.20	119.84
2	K	441	SER	CA-C-N	5.09	126.20	119.84
2	K	441	SER	C-N-CA	5.09	126.20	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	885	ALA	CA-C-N	5.07	125.10	119.32
1	F	885	ALA	C-N-CA	5.07	125.10	119.32
1	F	388	GLU	CA-C-N	5.06	125.06	119.89
1	F	388	GLU	C-N-CA	5.06	125.06	119.89
2	H	180	GLU	N-CA-C	-5.06	106.52	113.30
2	H	1877	GLY	N-CA-C	-5.06	108.34	115.32
2	G	1780	ILE	N-CA-C	-5.06	106.22	111.58
1	C	486	VAL	N-CA-C	5.05	115.93	108.45
2	G	1139	ALA	N-CA-C	-5.05	107.12	113.28
2	K	601	PRO	CA-C-N	5.05	126.15	119.84
2	K	601	PRO	C-N-CA	5.05	126.15	119.84
2	I	988	GLU	CA-C-N	5.04	126.14	119.84
2	I	988	GLU	C-N-CA	5.04	126.14	119.84
2	G	706	ILE	N-CA-C	5.04	115.76	110.62
2	K	2032	PRO	N-CA-C	-5.03	107.30	113.84
1	B	854	SER	N-CA-C	5.02	116.56	111.14
2	J	805	MET	CA-C-N	5.02	125.26	119.83
2	J	805	MET	C-N-CA	5.02	125.26	119.83
2	H	1996	ILE	N-CA-C	5.02	112.52	107.55
2	K	988	GLU	CA-C-N	5.02	126.12	119.84
2	K	988	GLU	C-N-CA	5.02	126.12	119.84
1	C	689	ARG	N-CA-C	-5.01	105.28	111.40
1	D	1175	VAL	CA-C-N	5.01	124.93	119.76
1	D	1175	VAL	C-N-CA	5.01	124.93	119.76
1	B	388	GLU	CA-C-N	5.01	125.00	119.89
1	B	388	GLU	C-N-CA	5.01	125.00	119.89
1	C	1339	GLU	N-CA-C	-5.01	107.23	113.19
2	L	1266	HIS	CA-C-N	5.01	126.10	119.84
2	L	1266	HIS	C-N-CA	5.01	126.10	119.84
2	L	1452	VAL	N-CA-C	5.00	114.46	108.96

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	783	1
1	B	11571	0	11529	740	1
1	C	11555	0	11507	744	0
1	D	11593	0	11552	763	0
1	E	11506	0	11467	790	0
1	F	11546	0	11499	733	0
2	G	16200	0	16081	1344	1
2	H	16200	0	16081	1373	1
2	I	16200	0	16081	1393	0
2	J	16200	0	16081	1385	0
2	K	16200	0	16081	1449	0
2	L	16200	0	16081	1424	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
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	14	0
4	H	31	0	19	13	0
4	I	31	0	19	14	0
4	J	31	0	19	15	0
4	K	31	0	19	13	0
4	L	31	0	19	14	0
All	All	167247	0	165930	12268	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 37.

All (12268) 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: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:D:1504:ARG:HG3	1:D:1504:ARG:HH11	1.02	1.15
1:F:1504:ARG:HH11	1:F:1504:ARG:HG3	1.04	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:HG2	2:H:1594:ARG:HH11	1.13	1.12
1:B:397:ARG:HG2	1:B:397:ARG:HH11	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
1:A:1278:GLY:H	1:A:1282:THR:HG22	1.11	1.11
2:L:1594:ARG:HG2	2:L:1594:ARG:HH11	1.15	1.11
1:E:1443:LEU:HD21	1:E:1470:ARG:HB3	1.14	1.11
2:I:1594:ARG:HG2	2:I:1594:ARG:HH11	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:HH11	1:E:1504:ARG:HG3	1.06	1.10
1:D:397:ARG:HG2	1:D:397:ARG:HH11	1.13	1.09
1:A:1504:ARG:HG3	1:A:1504:ARG:HH11	1.04	1.09
1:E:397:ARG:HH11	1:E:397:ARG:HG2	1.15	1.09
1:C:1389:ILE:HG13	1:F:1268:SER:HB3	1.28	1.09
1:A:1268:SER:HB3	1:E:1389:ILE:HG13	1.35	1.08
1:C:1278:GLY:H	1:C:1282:THR:HG22	1.11	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:C:397:ARG:HG2	1:C:397:ARG:HH11	1.14	1.08
1:D:1443:LEU:HD21	1:D:1470:ARG:HB3	1.16	1.08
1:B:427:ARG:HH12	1:B:492:ILE:HG23	1.18	1.07
2:H:374:GLU:HA	2:H:377:HIS:CD2	1.89	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:HH11	2:K:1194:ARG:HG3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:374:GLU:HA	2:L:377:HIS:CD2	1.90	1.06
1:A:397:ARG:HG2	1:A:397:ARG:HH11	1.16	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
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:E:965:TYR:CZ	1:E:1199:LEU:HD22	1.91	1.05
1:F:1342:ARG:NH1	1:F:1347:THR:HB	1.69	1.05
2:I:1194:ARG:HH11	2:I:1194:ARG:HG3	0.94	1.05
1:E:557:ARG:HH11	1:E:557:ARG:HG3	1.19	1.05
2:J:374:GLU:HA	2:J:377:HIS:CD2	1.92	1.05
2:J:1194:ARG:HH11	2:J:1194:ARG:HG3	0.89	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
1:C:365:GLN:HG3	1:D:365:GLN:HG3	1.36	1.05
2:L:846:THR:HG21	2:L:866:HIS:CD2	1.92	1.05
1:B:1148:LEU:HD13	1:D:1148:LEU:HD13	1.39	1.04
2:G:1594:ARG:HG2	2:G:1594:ARG:HH11	1.15	1.04
2:H:610:PRO:HD2	4:H:2101:FMN:H6	1.36	1.04
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
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:H:1194:ARG:HH11	2:H:1194:ARG:HG3	0.93	1.04
2:K:374:GLU:HA	2:K:377:HIS:CD2	1.91	1.04
2:L:595:SER:HB3	2:L:602:PRO:HG3	1.39	1.04
1:C:1702:ARG:CG	1:C:1702:ARG:HH11	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:A:365:GLN:HG3	1:F:365:GLN:HG3	1.39	1.03
1:B:1702:ARG:HH11	1:B:1702:ARG:CG	1.69	1.03
2:L:610:PRO:HD2	4:L:2101:FMN:H6	1.35	1.03
1:B:535:TYR:OH	1:B:630:LYS:HE3	1.58	1.03
2:J:2052:LYS:HD3	2:J:2074:TRP:NE1	1.73	1.03
1:D:1278:GLY:H	1:D:1282:THR:HG22	1.23	1.02
2:L:2052:LYS:HD3	2:L:2074:TRP:NE1	1.73	1.02
1:D:557:ARG:HG3	1:D:557:ARG:HH11	1.19	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:846:THR:HG21	2:J:866:HIS:CD2	1.94	1.02
2:L:1115:TYR:HB3	2:L:1267:PRO:HB3	1.38	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:G:374:GLU:HA	2:G:377:HIS:CD2	1.93	1.02
2:J:1194:ARG:HG3	2:J:1194:ARG:NH1	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:HH11	1:F:427:ARG:HG3	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
1:F:1079:ARG:HG2	1:F:1079:ARG:HH11	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:I:2052:LYS:HD3	2:I:2074:TRP:NE1	1.75	1.01
2:K:1200:ARG:HD3	2:K:1200:ARG:H	1.25	1.01
1:B:427:ARG:HG3	1:B:427:ARG:HH11	1.23	1.01
1:E:1672:GLY:HA3	1:E:1678:LEU:HD23	1.42	1.01
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: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
2:G:752:HIS:HE1	2:G:847:TYR:HE2	1.04	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:A:427:ARG:HH11	1:A:427:ARG:HG3	1.25	1.00
1:F:1702:ARG:CG	1:F:1702:ARG:HH11	1.74	1.00
2:H:917:ARG:HH11	2:H:917:ARG:CG	1.75	1.00
2:I:917:ARG:HH11	2:I:917:ARG:CG	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:88:ILE:HG21	2:J:1821:MET:HE2	1.43	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:HH11	1:C:1504:ARG:CG	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HG3	2:H:1194:ARG:NH1	1.72	0.98
2:J:1200:ARG:H	2:J:1200:ARG:HD3	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:CG	1:A:1702:ARG:HH11	1.75	0.98
1:E:989:ASN:H	1:E:1491:ASN:HD21	1.10	0.98
2:L:917:ARG:HH11	2:L:917:ARG:HG3	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:HH11	1:C:427:ARG:HG3	1.26	0.97
2:I:1200:ARG:H	2:I:1200:ARG:HD3	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
1:F:1703:VAL:HG11	1:F:1711:LEU:HB3	1.43	0.96
2:G:1200:ARG:H	2:G:1200:ARG:HD3	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:HD3	2:H:1200:ARG:H	1.28	0.96
2:I:1048:TRP:CE2	2:I:1049:GLN:HG2	2.00	0.96
1:A:88:ILE:HG21	2:G:1821:MET:HE2	1.44	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:HH11	2:I:917:ARG:HG3	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
1:A:1079:ARG:HG2	1:A:1079:ARG:HH11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:501:TRP:HE1	2:K:528:THR:HG22	1.28	0.95
2:J:917:ARG:CG	2:J:917:ARG:HH11	1.79	0.95
2:J:1008:ILE:HD12	2:J:1013:VAL:HG22	1.48	0.95
1:A:397:ARG:HH11	1:A:397:ARG:CG	1.80	0.95
1:C:427:ARG:HH12	1:C:492:ILE:HG23	1.30	0.95
1:C:1079:ARG:HG2	1:C:1079:ARG:HH11	1.31	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
2:K:289:ILE:HG12	2:K:493:MET:HE1	1.47	0.95
1:E:1504:ARG:HH11	1:E:1504:ARG:CG	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:HH11	1:D:397:ARG:CG	1.78	0.94
1:D:427:ARG:HH12	1:D:492:ILE:HG23	1.29	0.94
1:D:1504:ARG:HH11	1:D:1504:ARG:CG	1.78	0.94
2:H:752:HIS:HE1	2:H:847:TYR:HE2	1.07	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:F:88:ILE:HG21	2:L:1821:MET:HE2	1.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:289:ILE:HG12	2:L:493:MET:HE1	1.51	0.92
2:L:1007:LEU:H	2:L:1007:LEU:HD12	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:750:GLY:HA2	2:K:865:ILE:HG23	1.52	0.92
2:K:814:SER:HB2	4:K:2101:FMN:O3P	1.70	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:846:THR:HG21	2:H:866:HIS:HD2	1.29	0.92
2:H:1007:LEU:H	2:H:1007:LEU:HD12	1.33	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
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:B:88:ILE:HG21	2:H:1821:MET:HE2	1.50	0.91
2:G:289:ILE:HG12	2:G:493:MET:HE1	1.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:635:TYR:CG	2:K:641:MET:HG3	2.06	0.91
2:K:1265:TYR:CE1	2:K:1267:PRO:HG3	2.04	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:917:ARG:HH11	2:H:917:ARG:HG3	1.30	0.91
2:H:1919:ASN:HB2	2:H:1928:VAL:HB	1.53	0.91
1:A:824:LEU:HB3	1:A:839:ILE:HD13	1.52	0.91
1:E:427:ARG:HH11	1:E:427:ARG:CG	1.84	0.91
1:F:427:ARG:HH11	1:F:427:ARG:CG	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:582:LYS:HB2	2:G:1112:VAL:HG22	1.53	0.90
2:G:1048:TRP:CE2	2:G:1049:GLN:HG2	2.07	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:376:ARG:HB3	2:K:394:PRO:HG2	1.54	0.90
2:K:1008:ILE:HD12	2:K:1013:VAL:HG22	1.52	0.90
1:C:811:ASP:HB3	1:C:814:TYR:HB3	1.52	0.90
1:C:1448:ALA:HA	1:C:1451:LYS:HE3	1.54	0.90
1:E:824:LEU:HB3	1:E:839:ILE:HD13	1.53	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:846:THR:HG21	2:I:866:HIS:HD2	1.33	0.90
1:D:570:TYR:O	1:D:574:ILE:HG13	1.71	0.90
1:D:1504:ARG:HG3	1:D:1504:ARG:NH1	1.84	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:H	2:I:1007:LEU:HD12	1.35	0.90
2:I:1194:ARG:HG3	2:I:1194:ARG:NH1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:942:MET:HE2	2:G:955:LEU:HB3	1.53	0.90
2:H:938:MET:HB3	2:H:959:THR:HG22	1.52	0.90
2:H:1868:GLN:HG2	2:H:1873:ARG:HH22	1.35	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
1:E:1032:MET:HE3	1:E:1165:PRO:HB3	1.53	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:HG3	1:A:1504:ARG:NH1	1.85	0.89
1:F:1032:MET:HE3	1:F:1165:PRO:HB3	1.55	0.89
2:G:1180:VAL:HG11	2:G:1187:PHE:CD2	2.06	0.89
2:H:327:PRO:HD2	2:I:1338:ARG:HH21	1.36	0.89
2:H:1180:VAL:HG11	2:H:1187:PHE:CD2	2.08	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
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:I:1610:MET:HE2	2:I:1610:MET:HA	1.55	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:501:TRP:HE1	2:G:528:THR:HG22	1.35	0.88
2:G:1194:ARG:HH11	2:G:1194:ARG:CG	1.82	0.88
2:H:791:TYR:HA	2:H:796:TRP:CD1	2.08	0.88
2:H:1265:TYR:CE1	2:H:1267:PRO:HG3	2.07	0.88
2:I:791:TYR:HA	2:I:796:TRP:CD1	2.07	0.88
2:I:1637:VAL:HG11	2:I:1679:LEU:HD13	1.52	0.88
1:A:881:LEU:HA	1:A:884:MET:HG3	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HH11	1:D:427:ARG:CG	1.86	0.88
2:G:1610:MET:HE2	2:G:1610:MET:HA	1.55	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:J:1610:MET:HE2	2:J:1610:MET:HA	1.53	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
1:E:962:ASN:HD22	2:K:1006:GLN:HE22	0.89	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
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:1499:ARG:HD3	1:E:1476:ARG:HH12	1.39	0.87
1:A:1663:LYS:HG2	2:G:1007:LEU:HD11	1.56	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
1:C:88:ILE:HG21	2:I:1821:MET:HE2	1.53	0.87
1:F:430:VAL:HG11	1:F:490:VAL:HG11	1.56	0.87
2:H:942:MET:HE2	2:H:955:LEU:HB3	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:HG3	1:C:1504:ARG:NH1	1.81	0.87
2:I:511:THR:HG22	2:I:512:HIS:HD2	1.36	0.87
2:J:846:THR:HG21	2:J:866:HIS:HD2	1.32	0.87
2:J:1288:PHE:O	2:J:1292:VAL:HG23	1.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HG3	2:L:1194:ARG:NH1	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:942:MET:HE2	2:K:955:LEU:HB3	1.54	0.87
2:K:1499:LYS:HB3	2:K:1505:SER:HB2	1.56	0.87
2:G:752:HIS:CE1	2:G:847:TYR:HE2	1.92	0.87
2:G:1890:ARG:HH22	2:G:1996:ILE:HD11	1.37	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:HG2	2:I:1594:ARG:NH1	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:HD12	2:G:1007:LEU:H	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:HH11	1:A:427:ARG:CG	1.87	0.86
1:B:1702:ARG:HH11	1:B:1702:ARG:HG3	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
2:L:1610:MET:HE2	2:L:1610:MET:HA	1.57	0.86
1:B:612:ILE:HG23	1:B:628:TYR:CD2	2.10	0.86
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:H	2:K:1007:LEU:HD12	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:A:1032:MET:HE3	1:A:1165:PRO:HB3	1.55	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:612:ILE:HD12	1:F:579:MET:CE	2.06	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
2:G:1868:GLN:HG2	2:G:1873:ARG:HH22	1.38	0.86
1:E:557:ARG:HH11	1:E:557:ARG:CG	1.89	0.86
1:E:1663:LYS:HG2	2:K:1007:LEU:HD11	1.56	0.86
1:F:526:MET:O	1:F:613:PRO:O	1.93	0.86
2:L:605:VAL:HB	2:L:628:ILE:HG13	1.56	0.86
2:L:854:VAL:HG21	2:L:1070:PRO:HA	1.58	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:HG3	1:B:1504:ARG:NH1	1.84	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
2:H:289:ILE:HG12	2:H:493:MET:HE1	1.57	0.85
2:H:1610:MET:HE2	2:H:1610:MET:HA	1.57	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
2:J:611:THR:HG21	2:J:817:MET:HE3	1.58	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:K:1610:MET:HE2	2:K:1610:MET:HA	1.56	0.85
2:L:752:HIS:CE1	2:L:847:TYR:HE2	1.94	0.85
2:L:814:SER:HB2	4:L:2101:FMN:O3P	1.76	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
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
2:K:1346:MET:HE3	2:K:1617:ARG:NH2	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:1851:MET:HE3	2:H:2025:ILE:HG12	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:511:THR:HG22	2:L:512:HIS:HD2	1.38	0.84
2:L:1499:LYS:HB3	2:L:1505:SER:HB2	1.59	0.84
1:B:430:VAL:HG11	1:B:490:VAL:HG11	1.59	0.84
2:G:1851:MET:HE3	2:G:2025:ILE:HG12	1.57	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:868:VAL:HG11	1:D:908:ILE:HD11	1.58	0.84
1:D:1278:GLY:N	1:D:1282:THR:HG22	1.91	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
2:L:942:MET:HE2	2:L:955:LEU:HB3	1.60	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:G:1067:LEU:HB2	4:G:2101:FMN:HM72	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:610:PRO:HG3	2:L:1047:LEU:HD22	1.59	0.84
2:L:1231:THR:HG23	2:L:1595:VAL:HG21	1.58	0.84
1:C:741:ASP:OD1	1:C:793:ARG:HD3	1.78	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
2:L:1594:ARG:HG2	2:L:1594:ARG:NH1	1.92	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:J:1851:MET:HE3	2:J:2025:ILE:HG12	1.61	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:741:ASP:OD1	1:E:793:ARG:HD3	1.77	0.83
1:E:1005:TRP:NE1	1:E:1561:LEU:HD22	1.92	0.83
1:F:1278:GLY:HA2	1:F:1630:LYS:HE2	1.58	0.83
2:H:929:MET:HE2	2:H:934:VAL:HG22	1.61	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
1:A:557:ARG:HH11	1:A:557:ARG:CG	1.90	0.83
2:G:791:TYR:HA	2:G:796:TRP:CD1	2.14	0.83
2:H:1700:GLN:HA	2:H:1704:MET:HE1	1.59	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:D:542:GLN:HB3	1:D:579:MET:HE2	1.60	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:471:ASP:HB3	2:G:474:THR:O	1.79	0.82
2:G:1915:LEU:HD21	2:G:1939:LEU:HD22	1.61	0.82
2:H:327:PRO:HD2	2:I:1338:ARG:NH2	1.95	0.82
2:H:1594:ARG:HG2	2:H:1594:ARG:NH1	1.89	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
2:L:611:THR:HG21	2:L:817:MET:HE3	1.61	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:H:611:THR:HG21	2:H:817:MET:HE3	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:43:PHE:HB2	2:I:22:ARG:NH2	1.95	0.82
2:I:1700:GLN:HA	2:I:1704:MET:HE1	1.62	0.82
2:I:1890:ARG:HH22	2:I:1996:ILE:HD11	1.43	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:498:THR:HG21	1:A:858:LEU:HA	1.62	0.82
1:A:729:ILE:HA	1:A:736:LEU:CD2	2.10	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:406:ALA:HA	1:A:439:ARG:NH1	1.93	0.81
1:A:1102:ILE:HD12	1:A:1146:ALA:HB3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1702:ARG:HH11	1:B:1702:ARG:HG2	1.42	0.81
1:F:824:LEU:HB3	1:F:839:ILE:CD1	2.09	0.81
2:K:448:HIS:HD2	2:K:491:VAL:HG12	1.44	0.81
2:K:1231:THR:HG23	2:K:1595:VAL:HG21	1.60	0.81
2:K:1700:GLN:HA	2:K:1704:MET:HE1	1.61	0.81
2:L:857:VAL:HG13	2:L:876:TRP:NE1	1.94	0.81
1:D:498:THR:HG21	1:D:858:LEU:HA	1.62	0.81
1:D:1702:ARG:HH11	1:D:1702:ARG:HG3	1.41	0.81
1:A:408:GLN:HG2	1:A:1610:ARG:HH12	1.44	0.81
1:A:558:LEU:HB2	1:A:563:GLN:HG3	1.62	0.81
1:B:406:ALA:HA	1:B:439:ARG:NH1	1.93	0.81
1:B:1094:LYS:HE3	1:B:1316:TYR:CD1	2.14	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
2:J:327:PRO:HD2	2:K:1338:ARG:HH21	1.45	0.81
2:J:1915:LEU:HD21	2:J:1939:LEU:HD22	1.63	0.81
2:L:917:ARG:HG3	2:L:917:ARG:NH1	1.88	0.81
2:L:929:MET:HE2	2:L:934:VAL:HG22	1.61	0.81
1:D:605:ARG:HB3	1:D:606:PRO:HD3	1.62	0.81
1:E:558:LEU:HB2	1:E:563:GLN:HG3	1.61	0.81
1:E:1703:VAL:HG11	1:E:1711:LEU:HB3	1.59	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:HG2	1:A:397:ARG:NH1	1.85	0.81
1:B:452:ILE:HD11	1:B:470:GLY:HA3	1.62	0.81
1:B:538:ARG:HA	1:B:585:MET:HE1	1.63	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:635:TYR:CG	2:I:641:MET:HG3	2.16	0.81
2:I:917:ARG:HG3	2:I:917:ARG:NH1	1.88	0.81
2:I:1288:PHE:O	2:I:1292:VAL:HG23	1.79	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
2:J:1746:THR:HB	2:J:1792:THR:HG23	1.62	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:365:GLN:CG	1:D:365:GLN:HG3	2.11	0.81
1:C:1102:ILE:HD12	1:C:1146:ALA:HB3	1.63	0.81
2:G:1700:GLN:HA	2:G:1704:MET:HE1	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:J:942:MET:HE2	2:J:955:LEU:HB3	1.63	0.81
1:A:1363:MET:HE1	1:A:1373:VAL:HG21	1.63	0.81
2:H:752:HIS:HE1	2:H:847:TYR:CE2	1.95	0.81
2:I:1067:LEU:HB2	4:I:2101:FMN:HM72	1.63	0.81
2:I:1194:ARG:HH11	2:I:1194:ARG:CG	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:406:ALA:HA	1:C:439:ARG:NH1	1.95	0.81
1:C:1005:TRP:NE1	1:C:1561:LEU:HD22	1.96	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:1868:GLN:HG2	2:K:1873:ARG:HH22	1.46	0.81
2:L:685:VAL:HG23	2:L:1186:ARG:HH12	1.46	0.81
2:L:1868:GLN:HG2	2:L:1873:ARG:HH22	1.45	0.81
1:A:1005:TRP:NE1	1:A:1561:LEU:HD22	1.96	0.80
1:A:1443:LEU:CD2	1:A:1470:ARG:HB3	2.06	0.80
1:C:729:ILE:HA	1:C:736:LEU:CD2	2.11	0.80
1:E:397:ARG:HG2	1:E:397:ARG:NH1	1.83	0.80
1:E:498:THR:HG21	1:E:858:LEU:HA	1.63	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
2:K:1067:LEU:HB2	4:K:2101:FMN:HM72	1.60	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:459:LYS:HA	2:J:485:ASP:OD1	1.81	0.80
2:J:2052:LYS:HD3	2:J:2074:TRP:HE1	1.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1107:GLU:HG3	1:E:1108:PRO:HD2	1.61	0.80
1:F:1702:ARG:HH11	1:F:1702:ARG:HG3	1.44	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
2:K:374:GLU:HA	2:K:377:HIS:HD2	1.46	0.80
1:A:1702:ARG:HH11	1:A:1702:ARG:HG2	1.45	0.80
1:B:1104:GLN:OE1	1:D:1107:GLU:HB2	1.80	0.80
1:C:1617:ILE:HD13	1:C:1617:ILE:H	1.47	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:H:1067:LEU:HB2	4:H:2101:FMN:HM72	1.62	0.80
2:K:1288:PHE:O	2:K:1292:VAL:HG23	1.81	0.80
2:I:685:VAL:HG12	2:I:687:ILE:HG13	1.64	0.80
2:I:1746:THR:HB	2:I:1792:THR:HG23	1.63	0.80
2:L:747:ARG:HH11	2:L:780:SER:HB3	1.46	0.80
2:L:1918:VAL:HG13	2:L:2006:HIS:HB2	1.63	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: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:H	1:B:1617:ILE:HD13	1.46	0.80
2:J:289:ILE:HG12	2:J:493:MET:HE1	1.63	0.80
2:J:600:VAL:HG13	2:J:601:PRO:HD2	1.64	0.80
2:J:1700:GLN:HA	2:J:1704:MET:HE1	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: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
2:L:1067:LEU:HB2	4:L:2101:FMN:HM72	1.63	0.79
1:B:729:ILE:HA	1:B:736:LEU:CD2	2.12	0.79
2:K:595:SER:HB3	2:K:602:PRO:CG	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:917:ARG:HG3	2:K:917:ARG:NH1	1.92	0.79
2:K:1746:THR:HB	2:K:1792:THR:HG23	1.63	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
2:I:1346:MET:HB2	2:I:1427:MET:HE1	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
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:300:THR:HB	2:G:303:GLU:H	1.48	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: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:E:1363:MET:HE1	1:E:1373:VAL:HG21	1.63	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
2:L:1851:MET:HE3	2:L:2025:ILE:HG12	1.63	0.79
1:B:498:THR:HG21	1:B:858:LEU:HA	1.64	0.79
1:B:552:ILE:HG12	1:E:552:ILE:HD11	1.65	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:289:ILE:HG12	2:I:493:MET:HE1	1.63	0.78
2:I:579:ARG:HB2	2:I:591:ASP:HB3	1.64	0.78
2:I:1764:MET:HB3	2:I:1780:ILE:HD12	1.65	0.78
2:K:358:ARG:HH21	2:K:383:VAL:HG21	1.48	0.78
2:L:493:MET:HA	2:L:497:ASP:HB2	1.66	0.78
2:L:1915:LEU:HD21	2:L:1939:LEU:HD22	1.64	0.78
1:A:574:ILE:HG23	1:A:579:MET:CB	2.12	0.78
2:I:611:THR:HG21	2:I:817:MET:HE3	1.64	0.78
2:K:1851:MET:HE3	2:K:2025:ILE:HG12	1.64	0.78
2:L:1442:TYR:O	2:L:1445:THR:HG22	1.83	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
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
1:E:88:ILE:HG21	2:K:1821:MET:HE2	1.66	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
1:F:60:THR:HG23	2:L:1922:VAL:HG13	1.64	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1594:ARG:HG2	2:G:1594:ARG:NH1	1.90	0.77
2:K:718:PRO:HG2	2:K:727:VAL:HG21	1.64	0.77
2:K:1594:ARG:HG2	2:K:1594:ARG:NH1	1.93	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:31:THR:HG23	2:J:2040:ILE:HG21	1.66	0.77
1:D:408:GLN:HG2	1:D:1610:ARG:HH12	1.50	0.77
2:I:942:MET:HE2	2:I:955:LEU:HB3	1.64	0.77
2:J:917:ARG:HG3	2:J:917:ARG:NH1	1.92	0.77
2:K:208:LEU:HD12	2:K:227:ILE:HD11	1.67	0.77
2:K:611:THR:HG21	2:K:817:MET:HE3	1.65	0.77
2:K:856:THR:HG23	2:K:866:HIS:CD2	2.18	0.77
2:K:1890:ARG:HH22	2:K:1996:ILE:HD11	1.48	0.77
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:D:1032:MET:HE3	1:D:1165:PRO:HB3	1.67	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:I:929:MET:HE2	2:I:934:VAL:HG22	1.66	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:622:MET:SD	2:H:652:ILE:HD11	2.23	0.77
2:H:1460:THR:HG22	2:H:1462:GLN:H	1.47	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
1:B:1032:MET:HE3	1:B:1165:PRO:HB3	1.65	0.77
1:C:1363:MET:HE1	1:C:1373:VAL:HG21	1.65	0.77
2:H:1602:LEU:HG	2:H:1606:ILE:CD1	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:F:538:ARG:HA	1:F:585:MET:HE1	1.67	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:HD13	1:D:1617:ILE:H	1.50	0.77
1:E:1224:SER:HB2	1:E:1307:PHE:O	1.85	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
1:F:1363:MET:HE1	1:F:1373:VAL:HG21	1.66	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:G:929:MET:HE2	2:G:934:VAL:HG22	1.65	0.76
2:I:1454:MET:HE2	2:I:1550:SER:HA	1.67	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: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:I:1460:THR:HG22	2:I:1462:GLN:H	1.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1764:MET:HB3	2:J:1780:ILE:HD12	1.66	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:914:TRP:NE1	2:J:916:GLY:HA3	2.00	0.76
2:J:1339:GLY:HA2	2:L:376:ARG:HE	1.50	0.76
2:J:1346:MET:HE3	2:J:1617:ARG:NH2	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
1:C:1032:MET:HE3	1:C:1165:PRO:HB3	1.67	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:284:GLY:H	2:L:289:ILE:HD12	1.49	0.76
2:L:1700:GLN:HA	2:L:1704:MET:HE1	1.65	0.76
2:L:2059:HIS:CE1	2:L:2068:ALA:HB2	2.21	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:C:1674:ILE:HD12	2:I:1010:ALA:HB3	1.68	0.76
1:D:777:LEU:O	1:D:781:ILE:HG13	1.85	0.76
1:D:1443:LEU:CD2	1:D:1470:ARG:HB3	2.08	0.76
1:E:955:VAL:HG21	2:K:964:ARG:HH21	1.49	0.76
2:G:611:THR:HG21	2:G:817:MET:HE3	1.68	0.76
2:H:376:ARG:HB3	2:H:394:PRO:HG2	1.65	0.76
2:I:2015:LYS:HB2	2:I:2016:PRO:HD3	1.68	0.76
2:J:1289:TYR:CG	2:J:1370:LEU:HD23	2.20	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:H	1:E:1617:ILE:HD13	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:562:SER:HB3	1:E:551:LEU:HD21	1.66	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:929:MET:HE2	2:K:934:VAL:HG22	1.67	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:632:LEU:HA	1:E:635:ILE:HG22	1.68	0.76
1:E:1213:VAL:HG22	1:E:1300:ARG:NH2	2.01	0.76
2:G:1867:MET:O	2:G:2003:VAL:HG21	1.86	0.76
2:H:571:ASP:OD1	2:H:573:VAL:HG23	1.85	0.76
2:H:1346:MET:HB2	2:H:1427:MET:HE1	1.67	0.76
2:H:2059:HIS:CE1	2:H:2068:ALA:HB2	2.20	0.76
2:J:1340:LYS:CE	2:L:376:ARG:HH22	1.98	0.76
2:K:2037:GLY:HA2	2:K:2048:PHE:O	1.86	0.76
2:L:1194:ARG:HH11	2:L:1194:ARG:CG	1.86	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
2:J:1346:MET:HB2	2:J:1427:MET:HE1	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:579:ARG:HB2	2:L:591:ASP:HB3	1.66	0.76
2:L:911:GLN:HE21	2:L:1064:THR:HG23	1.50	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:440:SER:HB3	1:A:481:LEU:HD23	1.68	0.75
1:A:1425:LEU:HD21	1:A:1429:ARG:HH21	1.51	0.75
1:C:1342:ARG:HH12	1:C:1347:THR:HB	1.49	0.75
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:265:CYS:SG	2:K:275:LEU:HD12	2.26	0.75
2:K:1884:CYS:HB3	2:K:1936:LEU:HD12	1.67	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:472:THR:H	2:I:493:MET:HE3	1.51	0.75
2:I:1468:ARG:HH12	2:I:1475:LEU:HB2	1.51	0.75
2:J:929:MET:HE2	2:J:934:VAL:HG22	1.66	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1079:ARG:HH11	1:D:1079:ARG:CG	1.97	0.75
1:F:973:TRP:CE2	1:F:1648:LYS:HB2	2.22	0.75
1:F:1342:ARG:HH12	1:F:1347:THR:HB	1.50	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:I:1851:MET:HE3	2:I:2025:ILE:HG12	1.67	0.75
2:J:595:SER:HB3	2:J:602:PRO:CG	2.15	0.75
2:K:487:ILE:HB	2:K:488:PRO:HD3	1.67	0.75
2:K:1602:LEU:HG	2:K:1606:ILE:CD1	2.15	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:767:HIS:CE1	1:D:767:HIS:HE1	2.05	0.75
1:C:1089:TYR:CE1	1:C:1312:GLU:HG3	2.21	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: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
2:J:2005:PHE:CB	2:J:2010:LEU:HD11	2.17	0.75
1:D:486:VAL:HG11	1:D:647:GLY:HA3	1.69	0.75
1:D:1363:MET:HE1	1:D:1373:VAL:HG21	1.68	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:HD13	1:F:1617:ILE:H	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
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:493:MET:HA	2:H:497:ASP:HB2	1.67	0.75
2:H:911:GLN:HE21	2:H:1064:THR:HG23	1.50	0.75
2:I:663:ILE:H	2:I:663:ILE:HD12	1.52	0.75
2:J:1985:GLN:O	2:J:1987:VAL:N	2.19	0.75
1:A:1431:GLN:HG2	1:E:1431:GLN:OE1	1.87	0.75
1:B:1443:LEU:CD2	1:B:1470:ARG:HB3	2.08	0.75
2:G:1339:GLY:HA2	2:I:376:ARG:HE	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD23	2:K:709:LEU:H	1.52	0.74
2:L:487:ILE:HB	2:L:488:PRO:HD3	1.67	0.74
2:L:1175:MET:HE3	2:L:1192:LEU:HD11	1.69	0.74
2:L:2052:LYS:HB3	2:L:2074:TRP:CE2	2.22	0.74
1:C:452:ILE:HD11	1:C:470:GLY:HA3	1.69	0.74
1:E:560:LYS:O	1:E:564:LEU:HB2	1.86	0.74
1:E:1094:LYS:HE3	1:E:1316:TYR:CD1	2.21	0.74
2:G:670:MET:HE2	2:G:674:ILE:HD11	1.69	0.74
2:H:2052:LYS:HB3	2:H:2074:TRP:CE2	2.22	0.74
2:L:855:ILE:HD13	2:L:856:THR:H	1.51	0.74
2:L:1602:LEU:HG	2:L:1606:ILE:CD1	2.17	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:J:1340:LYS:HE3	2:L:376:ARG:HH22	1.51	0.74
2:K:420:PRO:HG3	2:K:847:TYR:HD1	1.53	0.74
2:K:1706:MET:O	2:K:1709:TYR:HB3	1.87	0.74
2:L:1746:THR:HB	2:L:1792:THR:HG23	1.67	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
2:J:1985:GLN:C	2:J:1987:VAL:H	1.96	0.74
2:L:663:ILE:HD12	2:L:663:ILE:H	1.51	0.74
1:D:542:GLN:HB3	1:D:579:MET:CE	2.18	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:HD13	1:A:1617:ILE:H	1.53	0.74
1:F:741:ASP:OD1	1:F:793:ARG:HD3	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:560:LYS:O	1:A:564:LEU:HB2	1.87	0.74
1:A:1342:ARG:HH11	1:A:1347:THR:HB	1.51	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:C:538:ARG:HA	1:C:585:MET:HE1	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
2:L:1346:MET:HB2	2:L:1427:MET:HE1	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:506:VAL:O	2:G:506:VAL:HG12	1.86	0.74
2:G:1844:LEU:HB3	2:G:1850:VAL:HG21	1.70	0.74
2:J:1420:LYS:HG2	2:J:1425:PRO:HA	1.69	0.74
2:K:501:TRP:NE1	2:K:528:THR:HG22	2.02	0.74
2:K:1764:MET:HB3	2:K:1780:ILE:HD12	1.70	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
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:608:LYS:O	1:B:610:GLU:HG2	1.88	0.73
1:B:1213:VAL:HG22	1:B:1300:ARG:NH2	2.02	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:718:PRO:CG	2:K:727:VAL:HG21	2.18	0.73
2:K:1803:THR:HA	2:K:1806:THR:HB	1.69	0.73
2:L:336:LEU:O	2:L:340:VAL:HG23	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1175:MET:HE3	2:I:1192:LEU:HD11	1.70	0.73
2:I:1891:ILE:HD11	2:I:1943:LEU:HB3	1.69	0.73
2:K:440:HIS:HD2	2:K:497:ASP:O	1.70	0.73
2:K:1915:LEU:HD21	2:K:1939:LEU:HD22	1.68	0.73
2:L:1706:MET:O	2:L:1709:TYR:HB3	1.88	0.73
1:A:756:ILE:HA	1:A:759:ILE:HD11	1.69	0.73
1:A:1443:LEU:O	1:A:1447:VAL:HG23	1.89	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:685:VAL:HG23	2:G:1186:ARG:NH1	2.04	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: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:CG	1:A:1504:ARG:NH1	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:G:1985:GLN:C	2:G:1987:VAL:H	1.96	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:423:ARG:O	1:B:429:ILE:HD11	1.88	0.73
1:B:1052:ASP:OD2	1:B:1055:THR:HG22	1.89	0.73
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:H:1985:GLN:C	2:H:1987:VAL:H	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1175:MET:HE3	2:J:1192:LEU:HD11	1.68	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:786:GLU:H	2:L:786:GLU:CD	1.96	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:A:1321:MET:HE1	1:E:1251:GLN:HG3	1.71	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:C:1107:GLU:HB2	1:F:1104:GLN:OE1	1.89	0.73
1:E:1443:LEU:O	1:E:1447:VAL:HG23	1.88	0.73
2:I:420:PRO:HG3	2:I:847:TYR:CD1	2.24	0.73
2:I:2052:LYS:HB3	2:I:2074:TRP:CE2	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:H:1175:MET:HE3	2:H:1192:LEU:HD11	1.69	0.72
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
2:K:765:TYR:CB	2:K:805:MET:HE3	2.19	0.72
1:A:1052:ASP:OD2	1:A:1055:THR:HG22	1.88	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:I:786:GLU:H	2:I:786:GLU:CD	1.98	0.72
2:J:1067:LEU:HB2	4:J:2101:FMN:HM72	1.69	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:F:1032:MET:CE	1:F:1165:PRO:HB3	2.18	0.72
2:H:930:THR:HG22	2:H:933:GLU:HG3	1.70	0.72
2:H:1301:PHE:HB3	2:H:1364:ARG: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: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:942:MET:CE	2:H:955:LEU:HB3	2.20	0.72
2:H:1454:MET:HE2	2:H:1550:SER:HA	1.72	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:489:GLU:HA	2:J:492:ARG:NH1	2.04	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: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:A:1104:GLN:OE1	1:E:1107:GLU:HB2	1.89	0.72
1:C:684:THR:HG23	1:C:686:ARG:H	1.53	0.72
1:C:1674:ILE:HD11	2:I:1011:GLN:HG3	1.70	0.72
2:G:1331:THR:HG22	2:I:329:THR:HA	1.71	0.72
2:K:791:TYR:HA	2:K:796:TRP:HD1	1.54	0.72
2:K:1985:GLN:O	2:K:1987:VAL:N	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1175:MET:HE2	2:G:1234:ILE:HG21	1.72	0.72
2:G:1346:MET:HE3	2:G:1617:ARG:NH2	2.04	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:1171:TRP:CD1	2:J:1171:TRP:C	2.68	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:493:MET:HA	2:I:497:ASP:HB2	1.71	0.71
2:I:1884:CYS:HB3	2:I:1936:LEU:HD12	1.70	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:K:1985:GLN:C	2:K:1987:VAL:H	1.97	0.71
2:L:506:VAL:HG12	2:L:506:VAL:O	1.90	0.71
1:A:365:GLN:CG	1:F:365:GLN:HG3	2.19	0.71
1:B:427:ARG:NH1	1:B:492:ILE:HG23	1.99	0.71
1:E:633:THR:HG22	1:E:637:LEU:HD12	1.72	0.71
1:E:1674:ILE:HD11	2:K:1011:GLN:HG3	1.72	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:663:ILE:H	2:J:663:ILE:HD12	1.56	0.71
2:J:1194:ARG:HH11	2:J:1194:ARG:CG	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1235:MET:HE2	1:C:1236:TYR:CE1	2.25	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:600:VAL:HG13	2:G:601:PRO:HD2	1.72	0.71
2:G:2052:LYS:HD3	2:G:2074:TRP:CE2	2.25	0.71
2:I:251:PRO:HG3	2:I:316:PHE:HA	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
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
2:L:1171:TRP:C	2:L:1171:TRP:CD1	2.68	0.71
1:A:964:LYS:O	1:A:966:PRO:HD3	1.91	0.71
1:B:365:GLN:CG	1:E:365:GLN:HG3	2.18	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:E:955:VAL:HG11	2:K:964:ARG:HE	1.54	0.71
1:F:486:VAL:HG11	1:F:647:GLY:HA3	1.73	0.71
1:F:1094:LYS:HE3	1:F:1316:TYR:CD1	2.24	0.71
2:G:1346:MET:HB2	2:G:1427:MET:HE1	1.71	0.71
2:I:220:GLN:C	2:I:222:PRO:HD3	2.15	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: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:I:1985:GLN:C	2:I:1987:VAL:H	1.98	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:K:670:MET:HE2	2:K:674:ILE:HD11	1.72	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:890:ASN:OD1	2:J:1755:LYS:HE2	1.90	0.71
1:C:1079:ARG:HH11	1:C:1079:ARG:CG	2.02	0.71
2:G:2036:ILE:HG22	2:G:2037:GLY:N	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:358:ARG:HH21	2:H:383:VAL:HG21	1.55	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:I:2059:HIS:CE1	2:I:2068:ALA:HB2	2.24	0.71
2:J:609:THR:OG1	2:J:610:PRO:HD3	1.91	0.71
2:J:1074:LYS:HE3	2:J:1075:TYR:HE1	1.56	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
2:L:1803:THR:HA	2:L:1806:THR:HB	1.71	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:A:1317:GLU:HG3	1:E:1250:LEU:HB2	1.73	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:C:1270:THR:HA	1:F:1386:THR:O	1.90	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
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:J:1506:SER:HA	2:J:1533:GLY:HA2	1.72	0.71
2:L:930:THR:HG22	2:L:933:GLU:CG	2.20	0.71
2:L:1007:LEU:HD12	2:L:1007:LEU:N	2.06	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:930:THR:HG22	2:G:933:GLU:HG3	1.72	0.71
2:G:1833:PHE:CZ	2:G:2039:TYR:HB2	2.25	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:765:TYR:HB2	2:K:805:MET:HE3	1.73	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:B:1386:THR:O	1:D:1270:THR:HA	1.90	0.71
1:C:1104:GLN:OE1	1:F:1107:GLU:HB2	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H:2037:GLY:HA2	2:H:2048:PHE:O	1.91	0.71
2:I:1053:ILE:HD12	2:I:1061:VAL:HG22	1.73	0.71
2:K:162:ALA:HA	2:K:167:VAL:HG22	1.73	0.71
2:K:1346:MET:HB2	2:K:1427:MET:HE1	1.73	0.71
2:K:1348:PHE:O	2:K:1351:VAL:HG12	1.89	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: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:G:1171:TRP:CD1	2:G:1171:TRP:C	2.68	0.70
2:G:1232:VAL:HG12	2:G:1246:LEU:HD23	1.73	0.70
2:H:1706:MET:O	2:H:1709:TYR:HB3	1.91	0.70
2:J:1454:MET:HE2	2:J:1550:SER:HA	1.72	0.70
2:K:220:GLN:C	2:K:222:PRO:HD3	2.16	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
2:L:1833:PHE:CZ	2:L:2039:TYR:HB2	2.25	0.70
2:L:1985:GLN:C	2:L:1987:VAL:H	1.98	0.70
1:B:1363:MET:HE1	1:B:1373:VAL:HG21	1.73	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:358:ARG:HB2	2:K:389:PHE:CZ	2.26	0.70
2:K:1074:LYS:HE3	2:K:1075:TYR:HE1	1.56	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:A:962:ASN:HB3	2:G:969:ARG:HD2	1.73	0.70
1:D:1342:ARG:HB2	1:D:1345:SER:HB2	1.74	0.70
1:E:1617:ILE:HD13	1:E:1617:ILE:N	2.06	0.70
2:H:1802:ALA:HB1	2:H:1804:GLN:HE22	1.56	0.70
2:I:289:ILE:HG23	2:I:490:LEU:HD22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:314:LEU:HG	2:I:318:ILE:HD11	1.73	0.70
2:I:1612:THR:O	2:I:1616:VAL:HG12	1.91	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:541:VAL:O	1:A:545:LEU:HG	1.91	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:B:501:ASP:HB3	1:B:505:ASN:HB2	1.74	0.70
1:B:1421:ARG:HD2	1:B:1489:PHE:O	1.91	0.70
2:G:765:TYR:CB	2:G:805:MET:HE3	2.22	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
2:K:2036:ILE:HG22	2:K:2037:GLY:N	2.05	0.70
1:B:1617:ILE:HD13	1:B:1617:ILE:N	2.06	0.70
1:C:1617:ILE:HD13	1:C:1617:ILE:N	2.05	0.70
2:G:573:VAL:HG22	2:G:804:PRO:HB2	1.73	0.70
2:G:709:LEU:HD23	2:G:709:LEU:H	1.55	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:H:220:GLN:C	2:H:222:PRO:HD3	2.16	0.70
2:H:1171:TRP:CD1	2:H:1171:TRP:C	2.69	0.70
2:I:1594:ARG:HH11	2:I:1594:ARG:CG	1.95	0.70
2:J:656:ARG:HG2	2:J:656:ARG:HH11	1.56	0.70
1:C:423:ARG:O	1:C:429:ILE:HD11	1.91	0.70
1:C:1425:LEU:HD21	1:C:1429:ARG:HH21	1.57	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:C:1697:LEU:HD21	1:F:1401:LEU:HD22	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1833:PHE:CZ	2:K:2039:TYR:HB2	2.26	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:914:TRP:NE1	2:G:916:GLY:HA3	2.07	0.70
2:G:1084:LYS:O	2:G:1088:ASP:HB2	1.91	0.70
2:H:1867:MET:O	2:H:2003:VAL:HG21	1.92	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:I:1985:GLN:O	2:I:1987:VAL:N	2.22	0.70
2:K:172:ILE:HD11	2:K:501:TRP:CZ2	2.26	0.70
2:K:1499:LYS:HG3	2:K:1500:ASN:N	2.05	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
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: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
2:J:1499:LYS:HG3	2:J:1500:ASN:H	1.57	0.70
2:K:604:MET:HE1	2:K:777:VAL:HG11	1.73	0.70
2:K:1175:MET:HE3	2:K:1192:LEU:HD11	1.74	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:HG2	2:I:656:ARG:HH11	1.55	0.70
2:I:765:TYR:HB2	2:I:805:MET:HE3	1.74	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:486:VAL:HG11	1:E:647:GLY:HA3	1.74	0.69
1:E:628:TYR:CZ	1:E:630:LYS:HG2	2.27	0.69
1:E:1342:ARG:HH12	1:E:1347:THR:HB	1.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:220:GLN:C	2:L:222:PRO:HD3	2.17	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:562:SER:HB3	1:D:551:LEU:HD21	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: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:786:GLU:H	2:H:786:GLU:CD	2.00	0.69
2:H:930:THR:HG22	2:H:933:GLU:CG	2.22	0.69
2:H:1346:MET:HE3	2:H:1617:ARG:NH2	2.06	0.69
2:I:930:THR:HG23	2:I:933:GLU:H	1.56	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:J:461:PRO:HA	2:J:484:GLU:O	1.92	0.69
2:J:1468:ARG:HH12	2:J:1475:LEU:HB2	1.56	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:HH11	1:E:1079:ARG:CG	2.04	0.69
2:H:663:ILE:H	2:H:663:ILE:HD12	1.57	0.69
2:H:1189:THR:O	2:H:1191:PRO:HD3	1.93	0.69
2:J:741:LEU:O	2:J:741:LEU:HG	1.92	0.69
2:J:1602:LEU:HG	2:J:1606:ILE:CD1	2.22	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:336:LEU:O	2:G:340:VAL:HG23	1.93	0.69
2:G:1499:LYS:HG3	2:G:1500:ASN:N	2.06	0.69
2:G:1506:SER:HA	2:G:1533:GLY:HA2	1.74	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:670:MET:HE2	2:I:674:ILE:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:1171:TRP:C	2:I:1171:TRP:CD1	2.70	0.69
2:I:2052:LYS:HD3	2:I:2074:TRP:CE2	2.26	0.69
2:J:718:PRO:HG2	2:J:727:VAL:HG21	1.73	0.69
2:K:336:LEU:O	2:K:340:VAL:HG23	1.91	0.69
2:K:2052:LYS:HD3	2:K:2074:TRP:CE2	2.26	0.69
2:L:765:TYR:HB2	2:L:805:MET:HE3	1.75	0.69
1:B:1470:ARG:O	1:B:1474:ILE:HG13	1.93	0.69
1:C:853:MET:HG2	1:C:856:ASN:HD22	1.57	0.69
1:C:959:PRO:HG2	2:I:974:GLU:HG3	1.75	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: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:HD23	1:E:617:LEU:N	2.07	0.69
1:F:15:VAL:HG11	2:L:2022:LEU:HD21	1.74	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: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
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: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:D:962:ASN:HB3	2:J:969:ARG:HD2	1.74	0.69
1:F:501:ASP:HB3	1:F:505:ASN:HB2	1.75	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:G:1845:VAL:HG21	2:G:1856:LEU:HD22	1.72	0.69
2:H:501:TRP:NE1	2:H:528:THR:HG22	2.06	0.69
2:J:251:PRO:HG3	2:J:316:PHE:HA	1.73	0.69
2:J:1721:ARG:NH2	2:J:1853:ILE:HD12	2.07	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:747:ARG:HH11	2:G:780:SER:HB3	1.56	0.69
2:G:1456:LEU:HD11	2:G:1543:TYR:HE2	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:117:ASN:HA	2:I:561:ARG:HG3	1.74	0.69
2:J:786:GLU:CD	2:J:786:GLU:H	1.99	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: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: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:C:1251:GLN:HG3	1:F:1321:MET:HE1	1.74	0.69
1:D:1327:ALA:HA	1:D:1340:MET:HE1	1.75	0.69
1:D:1674:ILE:HD12	2:J:1010:ALA:HB3	1.75	0.69
1:E:859:VAL:HG12	1:E:863:VAL:HG23	1.73	0.69
1:E:1672:GLY:HA3	1:E:1678:LEU:CD2	2.21	0.69
1:F:859:VAL:HG12	1:F:863:VAL:HG23	1.75	0.69
2:G:48:LEU:CD1	2:G:101:VAL:HG11	2.23	0.69
2:G:2037:GLY:HA2	2:G:2048:PHE:O	1.93	0.69
2:H:207:LEU:O	2:H:211:LEU:HG	1.93	0.69
2:H:741:LEU:O	2:H:741:LEU:HG	1.91	0.69
2:H:1007:LEU:HD12	2:H:1007:LEU:N	2.07	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:I:1499:LYS:HG3	2:I:1500:ASN:N	2.07	0.69
2:I:2036:ILE:HG22	2:I:2037:GLY:N	2.06	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
2:J:1318:ALA:HA	2:J:1391:VAL:HG21	1.75	0.69
2:J:1405:ILE:HA	2:J:1445:THR:OG1	1.92	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:K:1384:PRO:HB3	2:K:1829:ARG:NH1	2.08	0.69
2:K:1976:CYS:O	2:K:1980:THR:HG23	1.93	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
2:L:1120:ILE:HD12	2:L:1167:ASN:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1617:ILE:HD13	1:A:1617:ILE:N	2.08	0.69
1:F:423:ARG:O	1:F:429:ILE:HD11	1.93	0.69
1:F:1223:GLY:HA3	1:F:1276:PRO:HD2	1.75	0.69
2:G:220:GLN:C	2:G:222:PRO:HD3	2.17	0.69
2:G:1468:ARG:HH12	2:G:1475:LEU:HB2	1.56	0.69
2:H:135:GLY:HA2	2:H:138:ARG:NH1	2.08	0.69
2:H:506:VAL:O	2:H:506:VAL:HG12	1.92	0.69
2:H:1084:LYS:O	2:H:1088:ASP:HB2	1.93	0.69
2:J:1884:CYS:HB3	2:J:1936:LEU:HD12	1.74	0.69
2:K:489:GLU:HA	2:K:492:ARG:NH1	2.08	0.69
2:K:506:VAL:O	2:K:506:VAL:HG12	1.93	0.69
2:K:1421:ARG:HD2	2:K:1426:VAL:HG21	1.74	0.69
2:L:718:PRO:CG	2:L:727:VAL:HG21	2.23	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:A:612:ILE:HD12	1:F:579:MET:HE2	1.74	0.69
1:A:1480:ARG:O	1:A:1484:GLU:HG3	1.93	0.69
1:B:716:GLN:HB3	1:B:769:ILE:HG23	1.75	0.69
1:B:1462:ASP:HB2	1:B:1465:ALA:HB3	1.74	0.69
1:C:60:THR:HG23	2:I:1922:VAL:HG13	1.75	0.69
1:C:408:GLN:HG2	1:C:1610:ARG:HH12	1.58	0.69
1:D:42:GLU:OE1	2:J:1688:PRO:HB3	1.93	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:571:ASP:HB3	2:I:574:LYS:HB2	1.73	0.69
2:I:1506:SER:HA	2:I:1533:GLY:HA2	1.75	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
2:L:914:TRP:NE1	2:L:916:GLY:HA3	2.08	0.69
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: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:D:405:TRP:CZ3	1:D:1609:SER:HB3	2.27	0.68
1:D:1702:ARG:HG3	1:D:1702:ARG:NH1	2.05	0.68
1:E:1640:LYS:HG3	1:E:1641:TYR:CD1	2.28	0.68
2:G:917:ARG:HD3	2:G:937:ARG:NH2	2.08	0.68
2:G:1421:ARG:HD2	2:G:1426:VAL:HG21	1.75	0.68
2:H:465:LEU:HD11	2:H:486:ILE:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:674:ILE:HD13	2:G:705:TYR:CE2	2.28	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:1948:MET:HE2	2:G:1948:MET:HA	1.74	0.68
2:H:914:TRP:NE1	2:H:916:GLY:HA3	2.07	0.68
2:H:1181:PHE:CE1	2:H:1191:PRO:HD2	2.28	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
1:A:22:PHE:HE2	2:G:2017:PHE:CG	2.11	0.68
1:A:1490:GLY:O	1:A:1509:THR:HB	1.93	0.68
1:B:1005:TRP:CD1	1:B:1561:LEU:HD22	2.29	0.68
1:B:1321:MET:HE1	1:D:1251:GLN:HG3	1.73	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:765:TYR:HB2	2:G:805:MET:HE3	1.73	0.68
2:G:786:GLU:CD	2:G:786:GLU:H	2.01	0.68
2:G:854:VAL:HG21	2:G:1070:PRO:CA	2.23	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:756:ILE:HA	1:B:759:ILE:HD11	1.74	0.68
1:B:1081:ILE:HA	1:B:1163:GLN:HE22	1.58	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:1499:LYS:HG3	2:H:1500:ASN:N	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:220:GLN:C	2:J:222:PRO:HD3	2.18	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: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:A:15:VAL:HG11	2:G:2022:LEU:HD21	1.74	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
2:G:448:HIS:CD2	2:G:491:VAL:HG12	2.26	0.68
2:H:1289:TYR:CG	2:H:1370:LEU:HD23	2.28	0.68
2:H:1370:LEU:HD12	2:H:1373:LEU:HD13	1.76	0.68
2:H:1871:VAL:HB	2:H:2003:VAL:HG22	1.75	0.68
2:J:506:VAL:O	2:J:506:VAL:HG12	1.93	0.68
2:J:1180:VAL:HG12	2:J:1188:GLN:H	1.59	0.68
2:K:135:GLY:HA2	2:K:138:ARG:NH1	2.08	0.68
2:K:623:ASN:OD1	2:K:653:PRO:HD3	1.94	0.68
2:K:1455:GLN:HB2	2:K:1551:ILE:HD11	1.73	0.68
2:L:1026:LYS:HG3	3:L:2102:NAP:N7A	2.09	0.68
2:L:1871:VAL:HB	2:L:2003:VAL:HG22	1.74	0.68
1:A:1363:MET:HE1	1:A:1373:VAL:CG2	2.24	0.68
1:E:408:GLN:HG2	1:E:1610:ARG:HH12	1.59	0.68
1:E:1218:VAL:HG13	1:E:1301:VAL:HG13	1.75	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:930:THR:HG22	2:I:933:GLU:CG	2.24	0.68
2:I:1178:THR:HG22	2:I:1180:VAL:H	1.59	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:983:GLN:HB3	1:A:1418:ILE:HG21	1.76	0.68
1:A:1079:ARG:HH11	1:A:1079:ARG:CG	2.04	0.68
1:C:729:ILE:HA	1:C:736:LEU:HD21	1.75	0.68
1:C:1102:ILE:HG22	1:C:1104:GLN:HG2	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:376:ARG:CB	2:K:394:PRO:HG2	2.22	0.68
2:K:1867:MET:O	2:K:2003:VAL:HG21	1.94	0.68
2:L:699:ILE:H	2:L:699:ILE:HD12	1.58	0.68
2:L:1370:LEU:HD12	2:L:1373:LEU:HD13	1.75	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:306:THR:O	2:H:310:ARG:HG3	1.94	0.68
2:H:1874:ASP:OD1	2:H:1878:ARG:HB3	1.94	0.68
2:I:791:TYR:HA	2:I:796:TRP:HD1	1.54	0.68
2:I:1890:ARG:HH22	2:I:1996:ILE:CD1	2.07	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: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:A:1674:ILE:HD11	2:G:1011:GLN:HG3	1.76	0.68
1:B:767:HIS:HE1	1:E:767:HIS:CE1	2.12	0.68
1:E:928:ILE:HG12	2:K:1462:GLN:HA	1.76	0.68
1:F:628:TYR:CZ	1:F:630:LYS:HG2	2.29	0.68
1:F:1702:ARG:CG	1:F:1702:ARG:NH1	2.45	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
2:G:1888:PRO:HG3	2:G:1900:LEU:HD12	1.75	0.68
2:H:1318:ALA:HA	2:H:1391:VAL:HG21	1.76	0.68
2:K:1346:MET:HE3	2:K:1617:ARG:HH21	1.57	0.68
2:K:1350:ILE:O	2:K:1354:TRP:HB2	1.93	0.68
1:B:1425:LEU:HD21	1:B:1429:ARG:HH21	1.59	0.67
1:C:1032:MET:CE	1:C:1165:PRO:HB3	2.23	0.67
1:C:1462:ASP:HB2	1:C:1465:ALA:HB3	1.75	0.67
1:D:582:SER:O	1:D:586:GLN:HB2	1.94	0.67
1:D:1223:GLY:HA3	1:D:1276:PRO:HD2	1.76	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:G:1867:MET:HE3	2:G:2005:PHE:CD2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:656:ARG:HG2	2:H:656:ARG:HH11	1.59	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:J:1305:LEU:HD11	2:J:1365:LYS:HD2	1.76	0.67
2:K:1948:MET:HE2	2:K:1948:MET:HA	1.75	0.67
2:L:172:ILE:HD11	2:L:501:TRP:HZ2	1.59	0.67
1:A:1251:GLN:HG3	1:E:1321:MET:HE1	1.75	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:20:SER:O	2:H:38:PRO:HA	1.94	0.67
2:H:1506:SER:HA	2:H:1533:GLY:HA2	1.75	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:J:698:SER:HB3	2:J:701:VAL:HG23	1.74	0.67
2:J:1383:VAL:HG23	2:J:1428:TYR:HE1	1.59	0.67
2:J:1499:LYS:HG3	2:J:1500:ASN:N	2.08	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:1171:TRP:CD1	2:K:1171:TRP:C	2.71	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
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:398:VAL:HG22	1:B:710:VAL:HG22	1.75	0.67
1:B:1480:ARG:O	1:B:1484:GLU:HG3	1.94	0.67
1:C:1052:ASP:OD2	1:C:1055:THR:HG22	1.94	0.67
1:D:683:THR:HB	1:D:714:PHE:HB3	1.77	0.67
1:D:1224:SER:HB2	1:D:1307:PHE:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:501:ASP:HB3	1:E:505:ASN:HB2	1.76	0.67
1:E:1336:GLU:O	1:E:1340:MET:HG2	1.95	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:H:604:MET:HE1	2:H:777:VAL:HG11	1.76	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: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:G:1181:PHE:CE1	2:G:1191:PRO:HD2	2.29	0.67
2:G:1454:MET:HE2	2:G:1550:SER:HA	1.76	0.67
2:G:1976:CYS:O	2:G:1980:THR:HG23	1.95	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:1383:VAL:HG23	2:L:1428:TYR:HE1	1.59	0.67
2:L:1421:ARG:HD2	2:L:1426:VAL:HG21	1.76	0.67
1:A:444:LEU:HD22	1:A:448:MET:HG2	1.75	0.67
1:C:831:GLU:HG2	1:D:755:GLU:HG2	1.76	0.67
1:C:1413:SER:HA	1:C:1499:ARG:NH2	2.09	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: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
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
2:L:1348:PHE:O	2:L:1351:VAL:HG12	1.95	0.67
2:L:1454:MET:HE2	2:L:1550:SER:HA	1.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:ILE:CG2	2:G:1821:MET:HE2	2.24	0.67
1:B:433:CYS:O	1:B:437:MET:HG3	1.95	0.67
1:B:962:ASN:HD22	2:H:1006:GLN:HE22	1.42	0.67
1:B:1032:MET:CE	1:B:1165:PRO:HB3	2.23	0.67
1:E:22:PHE:HE1	2:K:1867:MET:HG3	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
1:F:1425:LEU:HD21	1:F:1429:ARG:HH21	1.60	0.67
2:G:284:GLY:H	2:G:289:ILE:HD12	1.58	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:1026:LYS:HG3	3:H:2102:NAP:N7A	2.09	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:I:1867:MET:O	2:I:2003:VAL:HG21	1.94	0.67
2:J:135:GLY:HA2	2:J:138:ARG:NH1	2.09	0.67
2:K:638:ALA:HA	2:K:672:TRP:CZ3	2.30	0.67
2:K:725:GLN:HG2	2:K:764:MET:HE1	1.76	0.67
2:K:1874:ASP:OD1	2:K:1878:ARG:HB3	1.95	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: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:E:1510:TRP:HZ3	1:E:1642:LEU:HA	1.60	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:HG2	2:G:656:ARG:HH11	1.59	0.67
2:H:172:ILE:HD11	2:H:501:TRP:HZ2	1.60	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:I:604:MET:HE1	2:I:777:VAL:HG11	1.76	0.67
2:J:967:GLU:HG2	2:J:1000:TYR:CE1	2.30	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
2:J:2036:ILE:HG22	2:J:2037:GLY:N	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:ARG:HH22	1:A:1613:LYS:HB3	1.60	0.67
1:A:1218:VAL:HG13	1:A:1301:VAL:HG13	1.77	0.67
1:B:1317:GLU:HG3	1:D:1250:LEU:HB2	1.77	0.67
1:C:486:VAL:CG1	1:C:647:GLY:HA3	2.25	0.67
1:C:1156:PHE:CZ	1:C:1316:TYR:HA	2.29	0.67
1:D:15:VAL:HG11	2:J:2022:LEU:HD21	1.77	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
2:J:725:GLN:HG2	2:J:764:MET:HE1	1.76	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:K:1468:ARG:NH1	2:K:1475:LEU:HB2	2.09	0.67
1:A:1223:GLY:HA3	1:A:1276:PRO:HD2	1.76	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: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:D:501:ASP:HB3	1:D:505:ASN:HB2	1.77	0.67
1:E:962:ASN:HB3	2:K:969:ARG:HD2	1.75	0.67
1:E:1413:SER:HA	1:E:1499:ARG:HH22	1.60	0.67
2:H:265:CYS:SG	2:H:275:LEU:HD12	2.34	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: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
1:A:1672:GLY:HA3	1:A:1678:LEU:CD2	2.22	0.66
1:B:1674:ILE:HD12	2:H:1010:ALA:HB3	1.76	0.66
1:C:961:ALA:HB2	1:C:1022:LEU:HD12	1.77	0.66
1:C:1321:MET:HE1	1:F:1251:GLN:HG3	1.76	0.66
1:D:557:ARG:CG	1:D:557:ARG:NH1	2.55	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
2:G:926:LEU:O	2:G:1008:ILE:HD11	1.95	0.66
2:H:1232:VAL:HG12	2:H:1246:LEU:HD23	1.75	0.66
2:I:950:TRP:CD1	2:I:956:LYS:HD3	2.30	0.66
2:I:1468:ARG:NH1	2:I:1475:LEU:HB2	2.09	0.66
2:J:1874:ASP:OD1	2:J:1878:ARG:HB3	1.95	0.66
2:K:605:VAL:HG22	2:K:816:MET:HG3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:768:ILE:O	2:K:774:ILE:HD12	1.95	0.66
2:K:1383:VAL:HG23	2:K:1428:TYR:HE1	1.59	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: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
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:162:ALA:HA	2:G:167:VAL:HG22	1.77	0.66
2:G:604:MET:HE3	2:G:811:MET:HB2	1.78	0.66
2:G:1114:GLU:HB3	2:G:1169:TYR:HB3	1.76	0.66
2:H:314:LEU:HG	2:H:318:ILE:HD11	1.77	0.66
2:H:388:ASN:C	2:H:388:ASN:HD22	2.03	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:604:MET:HE3	2:K:811:MET:HB2	1.77	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
2:L:604:MET:HE1	2:L:777:VAL:HG11	1.76	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: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
1:F:1504:ARG:CG	1:F:1504:ARG:NH1	2.45	0.66
2:G:465:LEU:HD11	2:G:486:ILE:HD11	1.75	0.66
2:G:1455:GLN:HB2	2:G:1551:ILE:HD11	1.78	0.66
2:H:1348:PHE:O	2:H:1351:VAL:HG12	1.94	0.66
2:H:1454:MET:CE	2:H:1550:SER:HA	2.25	0.66
2:K:868:LEU:O	2:K:870:THR:HG23	1.95	0.66
2:L:388:ASN:HD22	2:L:388:ASN:C	2.02	0.66
1:A:503:ARG:HA	1:A:933:ILE:HD11	1.77	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:B:575:ARG:O	1:B:579:MET:HG3	1.95	0.66
1:B:1235:MET:HE2	1:B:1236:TYR:CE1	2.31	0.66
1:F:506:ILE:HD11	1:F:926:SER:HB3	1.75	0.66
1:F:1421:ARG:HD2	1:F:1489:PHE:O	1.96	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
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:J:327:PRO:HD2	2:K:1338:ARG:NH2	2.11	0.66
2:J:1331:THR:O	2:L:329:THR:HG22	1.95	0.66
2:J:1948:MET:HE2	2:J:1948:MET:HA	1.77	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:K:1454:MET:HE2	2:K:1550:SER:HA	1.76	0.66
2:L:48:LEU:CD1	2:L:101:VAL:HG11	2.25	0.66
2:L:1976:CYS:O	2:L:1980:THR:HG23	1.94	0.66
1:A:81:TYR:CE1	2:G:1821:MET:HE3	2.30	0.66
1:A:408:GLN:HG2	1:A:1610:ARG:NH1	2.10	0.66
1:A:1307:PHE:HB3	1:A:1357:CYS:CB	2.26	0.66
1:B:729:ILE:HA	1:B:736:LEU:HD21	1.76	0.66
1:F:88:ILE:CG2	2:L:1821:MET:HE2	2.24	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:611:THR:CG2	2:H:817:MET:HE3	2.26	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:117:ASN:OD1	2:K:561:ARG:HB2	1.95	0.66
2:K:420:PRO:HG3	2:K:847:TYR:CD1	2.29	0.66
2:K:876:TRP:CD1	2:K:876:TRP:C	2.72	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
2:L:942:MET:CE	2:L:955:LEU:HB3	2.25	0.66
1:A:81:TYR:CD1	2:G:1821:MET:HE3	2.31	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:306:THR:O	2:G:310:ARG:HG3	1.95	0.66
2:G:1802:ALA:HB1	2:G:1804:GLN:HE22	1.59	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:663:ILE:H	2:K:663:ILE:HD12	1.59	0.66
2:K:1506:SER:HA	2:K:1533:GLY:HA2	1.77	0.66
2:L:656:ARG:HG2	2:L:656:ARG:HH11	1.60	0.66
2:L:1318:ALA:HA	2:L:1391:VAL:HG21	1.75	0.66
1:A:1541:GLN:HE22	1:A:1633:GLN:HE22	1.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:G:1420:LYS:HG2	2:G:1425:PRO:HA	1.76	0.66
2:H:610:PRO:CD	4:H:2101:FMN:H6	2.21	0.66
2:H:670:MET:HE2	2:H:674:ILE:HD11	1.76	0.66
2:H:765:TYR:HB2	2:H:805:MET:HE3	1.76	0.66
2:H:765:TYR:CB	2:H:805:MET:HE3	2.24	0.66
2:H:1456:LEU:HD11	2:H:1543:TYR:HE2	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: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
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:1078:ILE:HG23	1:B:1352:MET:HE2	1.76	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:1032:MET:CE	1:D:1165:PRO:HB3	2.24	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:964:ARG:O	2:G:967:GLU:HB2	1.96	0.66
2:G:1340:LYS:HG3	2:I:376:ARG:NH2	2.11	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:H:1701:GLU:H	2:H:1704:MET:CE	2.09	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: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
2:L:1948:MET:HA	2:L:1948:MET:HE2	1.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:293:ALA:HA	2:G:469:VAL:HG21	1.78	0.66
2:G:1048:TRP:HE1	2:G:1049:GLN:HE21	1.44	0.66
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: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:I:765:TYR:CB	2:I:805:MET:HE3	2.26	0.66
2:J:549:ASN:ND2	2:J:551:GLU:H	1.93	0.66
2:K:57:PRO:HG2	2:K:68:GLU:HG3	1.77	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:L:743:TRP:CG	2:L:761:ILE:HD11	2.31	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
1:A:430:VAL:HG11	1:A:490:VAL:HG11	1.76	0.66
1:A:552:ILE:HD11	1:F:552:ILE:HG12	1.78	0.66
1:B:1089:TYR:CE1	1:B:1312:GLU:HG3	2.31	0.66
1:C:978:LYS:HB3	1:C:979:PRO:HD3	1.77	0.66
1:C:1386:THR:O	1:F:1270:THR:HA	1.96	0.66
1:D:1235:MET:HE2	1:D:1236:TYR:CE1	2.31	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:F:729:ILE:HA	1:F:736:LEU:HD21	1.77	0.66
2:G:942:MET:CE	2:G:955:LEU:HB3	2.26	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:H:1048:TRP:HE1	2:H:1049:GLN:HE21	1.44	0.66
2:I:388:ASN:C	2:I:388:ASN:HD22	2.03	0.66
2:I:1346:MET:HE3	2:I:1617:ARG:NH2	2.11	0.66
2:J:549:ASN:HD22	2:J:551:GLU:H	1.44	0.66
2:K:1175:MET:HE2	2:K:1234:ILE:HG21	1.78	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:41:THR:HG21	2:H:1691:ALA:HB2	1.78	0.65
1:B:427:ARG:HG3	1:B:427:ARG:NH1	2.03	0.65
1:B:628:TYR:CZ	1:B:630:LYS:HG2	2.30	0.65
1:B:1413:SER:HA	1:B:1499:ARG:NH2	2.11	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
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:1468:ARG:NH1	2:H:1475:LEU:HB2	2.10	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: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
2:L:765:TYR:CB	2:L:805:MET:HE3	2.26	0.65
1:B:1251:GLN:HG3	1:D:1321:MET:HE1	1.77	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:442:PRO:HD2	1:E:443:LEU:HD12	1.77	0.65
1:E:1504:ARG:CG	1:E:1504:ARG:NH1	2.47	0.65
1:E:1674:ILE:HD12	2:K:1010:ALA:HB3	1.78	0.65
1:F:962:ASN:HB3	2:L:969:ARG:HD2	1.78	0.65
2:G:501:TRP:HZ2	2:G:528:THR:HG21	1.61	0.65
2:G:1745:LEU:HB3	2:G:1799:LEU:CD2	2.26	0.65
2:H:1701:GLU:H	2:H:1704:MET:HE3	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:600:VAL:HG13	2:J:601:PRO:CD	2.27	0.65
2:J:604:MET:HE1	2:J:777:VAL:HG11	1.78	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:E:1363:MET:HE1	1:E:1373:VAL:CG2	2.26	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: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:310:ARG:HA	2:K:458:MET:HE1	1.78	0.65
2:K:501:TRP:HZ2	2:K:528:THR:HG21	1.59	0.65
2:K:1692:TYR:HD1	2:K:1847:LEU:HD21	1.61	0.65
2:L:186:LEU:CD2	2:L:256:VAL:HG22	2.27	0.65
1:A:613:PRO:C	1:A:615:LEU:H	2.04	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:HG3	1:A:1702:ARG:NH1	2.09	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: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: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:D:1209:PHE:CE2	1:D:1301:VAL:HG21	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:H:1048:TRP:NE1	2:H:1049:GLN:HE21	1.93	0.65
2:I:549:ASN:HD22	2:I:551:GLU:H	1.44	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:J:1722:ALA:CB	2:J:1812:LEU:HD21	2.26	0.65
2:K:917:ARG:HG2	2:K:937:ARG:NH1	2.10	0.65
2:L:604:MET:HE3	2:L:811:MET:HB2	1.78	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:1948:MET:HA	2:I:1948:MET:HE2	1.77	0.65
2:J:253:ILE:HB	2:J:287:GLN:HE22	1.62	0.65
2:J:1351:VAL:HG23	2:J:1584:SER:HA	1.79	0.65
2:K:20:SER:O	2:K:38:PRO:HA	1.96	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:A:890:ASN:OD1	2:L:1755:LYS:HE2	1.97	0.65
1:C:965:TYR:OH	1:C:1199:LEU:HD22	1.96	0.65
1:C:1363:MET:HE1	1:C:1373:VAL:CG2	2.27	0.65
1:E:406:ALA:CA	1:E:439:ARG:HH11	2.08	0.65
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: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:F:612:ILE:CD1	1:F:907:PHE:HZ	2.10	0.65
1:F:1235:MET:HE2	1:F:1236:TYR:CE1	2.31	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:G:1175:MET:HE3	2:G:1192:LEU:HD11	1.77	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:854:VAL:CG2	2:J:1070:PRO:HA	2.24	0.65
2:J:1009:ASN:O	2:J:1013:VAL:HG23	1.96	0.65
2:J:1617:ARG:HB2	2:J:1635:TYR:CZ	2.30	0.65
2:K:833:VAL:HG13	2:K:1077:LYS:HA	1.79	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:L:501:TRP:HZ2	2:L:528:THR:HG21	1.60	0.65
1:B:557:ARG:HD2	1:E:557:ARG:O	1.96	0.65
1:B:1150:ILE:HG12	1:D:1148:LEU:HD21	1.77	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:524:ILE:HG22	2:L:528:THR:HG23	1.79	0.65
2:L:1231:THR:HG22	2:L:1232:VAL:HG13	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: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:G:1231:THR:HG22	2:G:1232:VAL:HG13	1.79	0.65
2:H:1305:LEU:H	2:H:1305:LEU:HD12	1.62	0.65
2:I:1305:LEU:HD21	2:I:1365:LYS:HB2	1.79	0.65
2:J:1338:ARG:HH21	2:L:327:PRO:HD2	1.62	0.65
2:L:611:THR:CG2	2:L:817:MET:HE3	2.26	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:752:HIS:NE2	2:K:856:THR:CG2	2.60	0.65
2:K:1115:TYR:HB3	2:K:1267:PRO:HB3	1.78	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
2:L:1603:PRO:HG2	2:L:1642:MET:HE3	1.78	0.65
1:A:1250:LEU:HB2	1:E:1317:GLU:HG3	1.78	0.65
1:C:444:LEU:HD22	1:C:448:MET:HG2	1.79	0.65
1:D:60:THR:HG23	2:J:1922:VAL:HG13	1.79	0.65
1:E:1183:VAL:HG11	1:E:1187:THR:HG21	1.79	0.65
2:G:135:GLY:HA2	2:G:138:ARG:NH1	2.13	0.65
2:G:605:VAL:HG22	2:G:816:MET:HG3	1.79	0.65
2:G:1404:VAL:HG22	2:G:1413:VAL:HG22	1.78	0.65
2:H:918:ASN:HB3	2:H:924:VAL:HG21	1.77	0.65
2:J:1454:MET:CE	2:J:1550:SER:HA	2.27	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:C:1327:ALA:HA	1:C:1340:MET:HE1	1.78	0.64
1:E:444:LEU:HD22	1:E:448:MET:HG2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1541:GLN:HE22	1:E:1633:GLN:HE22	1.45	0.64
1:F:1327:ALA:HA	1:F:1340:MET:HE1	1.79	0.64
1:F:1413:SER:HA	1:F:1499:ARG:NH2	2.12	0.64
2:G:87:VAL:HG22	2:G:98:ASN:HB3	1.79	0.64
2:G:686:PRO:HB3	2:G:1187:PHE:CE1	2.32	0.64
2:G:1048:TRP:NE1	2:G:1049:GLN:HE21	1.94	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:H:87:VAL:HG22	2:H:98:ASN:HB3	1.78	0.64
2:H:1890:ARG:HH22	2:H:1996:ILE:CD1	2.10	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:172:ILE:HD11	2:J:501:TRP:HZ2	1.61	0.64
2:J:440:HIS:CD2	2:J:499:VAL:HG23	2.32	0.64
2:J:1338:ARG:NH2	2:L:327:PRO:HD2	2.11	0.64
2:L:1048:TRP:CD2	2:L:1049:GLN:HG2	2.32	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
1:D:88:ILE:CG2	2:J:1821:MET:HE2	2.23	0.64
2:G:1220:ARG:HA	2:G:1229:VAL:O	1.97	0.64
2:H:43:PHE:CD2	2:I:22:ARG:CG	2.79	0.64
2:H:661:ASN:HD21	4:H:2101:FMN:HN3	1.44	0.64
2:I:549:ASN:ND2	2:I:551:GLU:H	1.94	0.64
2:I:741:LEU:HG	2:I:741:LEU:O	1.97	0.64
2:J:1090:ILE:O	2:J:1094:HIS:HD2	1.80	0.64
2:K:967:GLU:HG2	2:K:1000:TYR:CE1	2.32	0.64
2:K:1231:THR:HG22	2:K:1232:VAL:HG13	1.79	0.64
2:L:661:ASN:HD21	4:L:2101:FMN:HN3	1.44	0.64
2:L:1048:TRP:NE1	2:L:1049:GLN:HE21	1.94	0.64
2:L:2036:ILE:CG2	2:L:2037:GLY:N	2.60	0.64
1:A:956:ILE:HA	2:G:977:PRO:HA	1.79	0.64
1:A:1342:ARG:HB2	1:A:1345:SER:HB2	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:765:TYR:HB2	2:J:805:MET:HE3	1.79	0.64
2:J:1099:LEU:HD12	2:J:1103:TYR:HB2	1.79	0.64
2:K:610:PRO:CD	4:K:2101:FMN:H6	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:605:VAL:HG22	2:L:816:MET:HG3	1.79	0.64
2:L:1171:TRP:CZ3	2:L:1236:LEU:HB2	2.33	0.64
1:B:31:THR:HG23	2:H:2040:ILE:HG21	1.78	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:632:LEU:HA	1:C:635:ILE:CG2	2.27	0.64
1:C:1702:ARG:HG3	1:C:1702:ARG:NH1	2.08	0.64
1:D:852:LEU:HD12	3:D:1901:NAP:O2A	1.96	0.64
1:E:421:ARG:NH2	1:E:1613:LYS:HB3	2.13	0.64
1:E:1480:ARG:O	1:E:1484:GLU:HG3	1.98	0.64
1:F:1413:SER:HA	1:F:1499:ARG:HH22	1.61	0.64
2:G:604:MET:HE1	2:G:777:VAL:HG11	1.80	0.64
2:G:1324:PHE:HA	2:G:1583:VAL:HG11	1.79	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
2:I:135:GLY:HA2	2:I:138:ARG:NH1	2.12	0.64
2:I:756:ASP:HA	2:I:843:TRP:CH2	2.33	0.64
2:I:1026:LYS:HG3	3:I:2102:NAP:N7A	2.11	0.64
2:I:1048:TRP:CD2	2:I:1049:GLN:HG2	2.32	0.64
2:J:270:ARG:HG3	2:J:274:GLU:OE1	1.98	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: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:70:ALA:O	2:I:403:LEU:HD12	1.97	0.64
1:A:1068:TYR:O	1:A:1072:ILE:HG13	1.98	0.64
1:A:1160:VAL:HB	1:A:1352:MET:HE1	1.79	0.64
1:B:1327:ALA:HA	1:B:1340:MET:HE1	1.78	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: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
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
2:G:950:TRP:CD1	2:G:956:LYS:HD3	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:584:SER:HB3	2:H:1114:GLU:O	1.97	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: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:B:767:HIS:CE1	1:E:767:HIS:CE1	2.85	0.64
1:B:767:HIS:CE1	1:E:767:HIS:HE1	2.15	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
2:H:1356:ALA:HB3	2:H:1397:THR:HG22	1.78	0.64
2:I:293:ALA:HA	2:I:469:VAL:HG21	1.80	0.64
2:I:467:ILE:HG23	2:I:468:PRO:HD2	1.80	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:J:1370:LEU:HA	2:J:1435:TYR:HE2	1.63	0.64
2:K:376:ARG:HE	2:L:1339:GLY:HA2	1.61	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: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:486:VAL:CG1	1:F:647:GLY:HA3	2.27	0.64
1:F:1081:ILE:HG13	1:F:1159:LEU:O	1.98	0.64
1:F:1156:PHE:CZ	1:F:1316:TYR:HA	2.33	0.64
2:G:20:SER:O	2:G:38:PRO:HA	1.98	0.64
2:G:1092:ASN:HA	2:G:1095:ILE:HG12	1.80	0.64
2:H:448:HIS:CD2	2:H:491:VAL:HG12	2.29	0.64
2:H:472:THR:H	2:H:493:MET:HE3	1.62	0.64
2:H:655:GLY:HA3	2:H:1272:ALA:CB	2.28	0.64
2:H:1099:LEU:HD12	2:H:1103:TYR:HB2	1.80	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:I:611:THR:CG2	2:I:817:MET:HE3	2.28	0.64
2:I:725:GLN:HG2	2:I:764:MET:HE1	1.80	0.64
2:I:938:MET:HE2	2:I:959:THR:HG22	1.77	0.64
2:I:1074:LYS:HE3	2:I:1075:TYR:HE1	1.61	0.64
2:J:472:THR:H	2:J:493:MET:HE3	1.62	0.64
2:J:1301:PHE:HB3	2:J:1364:ARG:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:1232:VAL:HG12	2:K:1246:LEU:HD23	1.79	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:C:1250:LEU:HB2	1:F:1317:GLU:HG3	1.80	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
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: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:J:1456:LEU:HD11	2:J:1543:TYR:HE2	1.62	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
1:B:1401:LEU:HD22	1:D:1697:LEU:HD21	1.80	0.64
1:B:1581:LEU:HD23	1:B:1617:ILE:HG12	1.80	0.64
1:C:960:ARG:HH12	2:I:968:GLU:CD	2.05	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:250:PHE:HB2	2:G:251:PRO:HD3	1.80	0.64
2:G:388:ASN:HD22	2:G:388:ASN:C	2.06	0.64
2:G:1348:PHE:O	2:G:1351:VAL:HG12	1.98	0.64
2:H:374:GLU:CA	2:H:377:HIS:HD2	2.10	0.64
2:H:1692:TYR:HD1	2:H:1847:LEU:HD21	1.63	0.64
2:I:1351:VAL:HG23	2:I:1584:SER:HA	1.79	0.64
2:J:611:THR:CG2	2:J:817:MET:HE3	2.26	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:O	2:L:612:THR:HG22	1.98	0.64
2:L:725:GLN:HG2	2:L:764:MET:HE1	1.79	0.64
1:A:1102:ILE:HG22	1:A:1104:GLN:HG2	1.80	0.64
1:A:1386:THR:O	1:E:1270:THR:HA	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:1413:SER:HA	1:E:1499:ARG:NH2	2.12	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
1:F:1089:TYR:CE1	1:F:1312:GLU:HG3	2.33	0.64
2:G:367:ALA:O	2:G:370:GLN:HB3	1.98	0.64
2:H:153:PRO:HB3	2:H:270:ARG:NH1	2.13	0.64
2:H:253:ILE:HB	2:H:287:GLN:HE22	1.61	0.64
2:H:1180:VAL:HG12	2:H:1188:GLN:H	1.61	0.64
2:H:1181:PHE:O	2:H:1188:GLN:HB3	1.98	0.64
2:I:698:SER:HB3	2:I:701:VAL:HG23	1.79	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:J:670:MET:HE2	2:J:674:ILE:HD11	1.79	0.64
2:J:779:GLY:O	2:J:780:SER:CB	2.45	0.64
2:K:49:LYS:O	2:K:53:LEU:HG	1.98	0.64
2:K:1456:LEU:HD11	2:K:1543:TYR:HE2	1.63	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:HG3	1:D:427:ARG:NH1	2.04	0.63
1:F:34:VAL:HG21	2:L:2045:ALA:O	1.97	0.63
1:F:998:GLY:HA3	1:F:1361:VAL:CG1	2.25	0.63
1:F:1524:GLY:HA2	1:F:1531:ASP:OD1	1.98	0.63
2:G:172:ILE:HD11	2:G:501:TRP:HZ2	1.62	0.63
2:G:670:MET:HA	2:G:673:GLN:HB2	1.80	0.63
2:G:1454:MET:CE	2:G:1550:SER:HA	2.28	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:I:1048:TRP:NE1	2:I:1049:GLN:HE21	1.94	0.63
2:J:44:GLN:HG3	2:J:101:VAL:HG21	1.78	0.63
2:J:765:TYR:CB	2:J:805:MET:HE3	2.28	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
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:1327:ALA:HA	1:A:1340:MET:HE1	1.80	0.63
1:A:1425:LEU:HD21	1:A:1429:ARG:NH2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:1363:MET:HE1	1:D:1373:VAL:CG2	2.28	0.63
1:F:1278:GLY:CA	1:F:1630:LYS:HE2	2.28	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:G:1266:HIS:NE2	2:G:1275:ARG:HD2	2.13	0.63
2:G:1709:TYR:HD2	2:G:1709:TYR:C	2.06	0.63
2:H:608:MET:H	2:H:612:THR:HB	1.63	0.63
2:H:1067:LEU:HB2	4:H:2101:FMN:C7M	2.28	0.63
2:H:1867:MET:HE3	2:H:2005:PHE:CD2	2.33	0.63
2:K:94:ALA:HB1	2:K:97:THR:OG1	1.98	0.63
2:K:894:GLU:O	2:K:897:LYS:HG2	1.98	0.63
2:K:1090:ILE:O	2:K:1094:HIS:HD2	1.81	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: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: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:J:1709:TYR:HD2	2:J:1709:TYR:C	2.06	0.63
2:J:1846:ALA:HB3	2:J:1847:LEU:HD12	1.80	0.63
2:K:610:PRO:O	2:K:613:VAL:HG12	1.99	0.63
2:K:1265:TYR:O	2:K:1267:PRO:HD3	1.98	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:424:VAL:HG13	1:B:469:LEU:HD11	1.78	0.63
1:B:852:LEU:HD12	3:B:1901:NAP:O2A	1.99	0.63
1:B:1504:ARG:CG	1:B:1504:ARG:NH1	2.48	0.63
1:B:1703:VAL:HG22	1:B:1712:LYS:C	2.23	0.63
1:C:1214:HIS:HD2	1:C:1216:SER:OG	1.80	0.63
1:F:339:GLN:O	1:F:343:ILE:HG13	1.98	0.63
1:F:1234:GLY:HA2	1:F:1238:ASP:HB2	1.81	0.63
2:G:253:ILE:HB	2:G:287:GLN:HE22	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1331:THR:O	2:I:329:THR:HG22	1.98	0.63
2:H:250:PHE:HB2	2:H:251:PRO:HD3	1.79	0.63
2:H:1231:THR:HG22	2:H:1232:VAL:HG13	1.79	0.63
2:I:1123:ALA:O	2:I:1126:GLU:HG3	1.98	0.63
2:J:1692:TYR:HD1	2:J:1847:LEU:HD21	1.63	0.63
2:K:1067:LEU:HB2	4:K:2101:FMN:C7M	2.27	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:655:GLY:HA3	2:L:1272:ALA:CB	2.29	0.63
2:L:827:GLN:NE2	2:L:827:GLN:H	1.96	0.63
2:L:876:TRP:CD1	2:L:876:TRP:C	2.77	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
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:24:LEU:HD12	2:H:37:VAL:HG21	1.79	0.63
2:H:580:LEU:HD12	2:H:1103:TYR:CE2	2.33	0.63
2:H:1007:LEU:H	2:H:1007:LEU:CD1	2.11	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:I:1084:LYS:O	2:I:1088:ASP:HB2	1.99	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
2:J:1324:PHE:HA	2:J:1583:VAL:HG11	1.81	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:K:786:GLU:H	2:K:786:GLU:CD	2.06	0.63
2:K:1356:ALA:HB3	2:K:1397:THR:HG22	1.79	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:580:LEU:HD12	2:G:1103:TYR:CE2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:752:HIS:CE1	2:G:847:TYR:CE2	2.78	0.63
2:G:833:VAL:HG13	2:G:1077:LYS:HA	1.81	0.63
2:G:875:PHE:CD1	2:G:905:LYS:HD3	2.34	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:H:110:GLU:HA	2:H:114:MET:HB2	1.81	0.63
2:H:367:ALA:O	2:H:370:GLN:HB3	1.99	0.63
2:H:1551:ILE:HG22	2:H:1552:GLU:HG3	1.81	0.63
2:J:38:PRO:HD2	2:J:104:LEU:HD11	1.80	0.63
2:J:186:LEU:HG	2:J:256:VAL:HG22	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: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:L:1370:LEU:HA	2:L:1435:TYR:HE2	1.63	0.63
2:L:1709:TYR:HD2	2:L:1709:TYR:C	2.07	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:725:GLN:HG2	2:G:764:MET:HE1	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: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:I:1015:HIS:NE2	2:I:1019:LEU:HD11	2.13	0.63
2:J:35:PHE:CE1	2:J:108:GLU:HG3	2.34	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: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:L:571:ASP:HB3	2:L:574:LYS:HB2	1.81	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
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:141:TYR:OH	2:H:267:THR:HG23	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:1090:ILE:O	2:H:1094:HIS:CD2	2.51	0.63
2:H:1175:MET:HE2	2:H:1234:ILE:HG21	1.79	0.63
2:H:1194:ARG:HH21	2:H:1601:ASN:CG	2.05	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:87:VAL:HG22	2:L:98:ASN:HB3	1.81	0.63
2:L:1067:LEU:HB2	4:L:2101:FMN:C7M	2.29	0.63
2:L:1538:ASN:HB3	2:L:1541:ILE:HG22	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: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:G:1380:TYR:CD2	2:G:1429:VAL:HG22	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:H:1603:PRO:HG2	2:H:1642:MET:HE3	1.81	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:934:VAL:O	2:K:938:MET:HG3	1.98	0.63
2:K:1046:SER:O	2:K:1049:GLN:HG3	1.99	0.63
2:K:1455:GLN:HB2	2:K:1551:ILE:CD1	2.28	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
2:L:1933:LEU:O	2:L:1989:LEU:HD21	1.99	0.63
1:A:574:ILE:HG22	1:A:579:MET:HB2	1.78	0.62
1:A:628:TYR:CD1	1:A:628:TYR:C	2.77	0.62
1:B:40:ARG:HH21	1:B:72:THR:HG22	1.64	0.62
1:B:565:GLN:O	1:B:569:LEU:HD12	1.99	0.62
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:E:613:PRO:C	1:E:615:LEU:H	2.05	0.62
1:F:506:ILE:HD13	1:F:922:ILE:HG22	1.81	0.62
2:G:472:THR:H	2:G:493:MET:HE3	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H:1722:ALA:CB	2:H:1812:LEU:HD21	2.29	0.62
2:I:1383:VAL:HG23	2:I:1428:TYR:HE1	1.64	0.62
2:I:1436:ARG:HH22	2:I:1602:LEU:HD13	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:J:250:PHE:HB2	2:J:251:PRO:HD3	1.80	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:K:462:ALA:N	2:K:483:ASP:HA	2.14	0.62
2:K:1092:ASN:HA	2:K:1095:ILE:HG12	1.79	0.62
2:L:374:GLU:CA	2:L:377:HIS:HD2	2.12	0.62
2:L:747:ARG:NH1	2:L:780:SER:HB3	2.14	0.62
2:L:756:ASP:HA	2:L:843:TRP:CH2	2.34	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: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:G:788:THR:HG22	2:G:1094:HIS:CE1	2.33	0.62
2:G:876:TRP:C	2:G:876:TRP:CD1	2.77	0.62
2:H:876:TRP:CD1	2:H:876:TRP:C	2.76	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:20:SER:O	2:J:38:PRO:HA	1.97	0.62
2:J:1933:LEU:O	2:J:1989:LEU:HD21	1.99	0.62
2:K:193:TYR:CD1	2:K:263:ILE:HD13	2.33	0.62
2:K:917:ARG:HD2	2:K:917:ARG:N	2.14	0.62
2:K:1454:MET:CE	2:K:1550:SER:HA	2.29	0.62
2:L:186:LEU:HG	2:L:256:VAL:HG22	1.81	0.62
2:L:663:ILE:H	2:L:663:ILE:CD1	2.10	0.62
2:L:779:GLY:O	2:L:780:SER:CB	2.46	0.62
2:L:1650:THR:O	2:L:1669:ALA:HA	1.98	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:636:TYR:CZ	1:D:640:LEU:HD22	2.34	0.62
1:D:1470:ARG:O	1:D:1474:ILE:HG13	1.98	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: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:H:1178:THR:HG22	2:H:1180:VAL:H	1.62	0.62
2:J:1867:MET:HE3	2:J:2005:PHE:CD2	2.34	0.62
2:K:698:SER:HB3	2:K:701:VAL:HG23	1.80	0.62
2:L:623:ASN:OD1	2:L:653:PRO:HD3	1.98	0.62
2:L:926:LEU:O	2:L:1008:ILE:HD11	1.99	0.62
1:B:562:SER:HB3	1:E:551:LEU:CD2	2.30	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:E:81:TYR:CE1	2:K:1821:MET:HE3	2.34	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:396:ILE:H	2:H:396:ILE:HD12	1.64	0.62
2:H:440:HIS:CD2	2:H:499:VAL:HG23	2.33	0.62
2:H:1404:VAL:HG22	2:H:1413:VAL:HG22	1.81	0.62
2:I:1603:PRO:HG2	2:I:1642:MET:HE3	1.82	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:J:1200:ARG:HD3	2:J:1200:ARG:N	2.09	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:K:1922:VAL:HB	2:K:1925:MET:HB2	1.82	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
2:L:1922:VAL:HB	2:L:1925:MET:HB2	1.81	0.62
1:A:60:THR:HG23	2:G:1922:VAL:HG13	1.82	0.62
1:A:632:LEU:HA	1:A:635:ILE:CG2	2.29	0.62
1:B:88:ILE:CG2	2:H:1821:MET:HE2	2.26	0.62
1:B:586:GLN:C	1:E:538:ARG:NH2	2.57	0.62
1:C:503:ARG:HA	1:C:933:ILE:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1702:ARG:CG	1:D:1702:ARG:NH1	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:743:TRP:HZ2	2:G:757:PHE:HA	1.63	0.62
2:G:1515:LEU:O	2:G:1523:ILE:HD12	2.00	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:H:1933:LEU:O	2:H:1989:LEU:HD21	1.99	0.62
2:J:95:HIS:HB2	2:J:96:PRO:HD3	1.81	0.62
2:J:789:TYR:HB3	2:J:790:PRO:HD3	1.81	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: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: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
2:L:843:TRP:CD1	2:L:843:TRP:C	2.77	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:380:ILE:O	2:G:380:ILE:HG13	1.98	0.62
2:G:1099:LEU:HD12	2:G:1103:TYR:HB2	1.80	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: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
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:K:1701:GLU:H	2:K:1704:MET:HE3	1.65	0.62
1:A:551:LEU:C	1:A:551:LEU:HD23	2.25	0.62
1:A:551:LEU:HD21	1:F:562:SER:HB3	1.80	0.62
1:D:433:CYS:O	1:D:437:MET:HG3	1.99	0.62
1:D:613:PRO:C	1:D:615:LEU:H	2.07	0.62
1:D:766:ALA:HA	1:D:769:ILE:HD12	1.80	0.62
1:D:1606:VAL:O	1:D:1608:PRO:HD3	2.00	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:573:VAL:HG22	2:I:804:PRO:HB2	1.81	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:J:293:ALA:HA	2:J:469:VAL:HG21	1.81	0.62
2:J:1404:VAL:HG22	2:J:1413:VAL:HG22	1.82	0.62
2:J:1468:ARG:NH1	2:J:1475:LEU:HB2	2.14	0.62
2:K:618:VAL:O	2:K:622:MET:HG3	1.99	0.62
2:K:1328:VAL:HA	2:K:1611:TYR:HE1	1.64	0.62
2:K:1709:TYR:HD2	2:K:1709:TYR:C	2.08	0.62
2:L:846:THR:HG22	2:L:856:THR:N	2.15	0.62
2:L:1318:ALA:HA	2:L:1391:VAL:CG2	2.30	0.62
1:A:399:TYR:OH	1:A:692:THR:HG23	1.99	0.62
1:A:532:ILE:HG21	1:A:907:PHE:HB2	1.82	0.62
1:B:1100:VAL:HG21	1:B:1150:ILE:HD12	1.82	0.62
1:C:746:PHE:CE1	1:C:800:PRO:HG3	2.35	0.62
1:C:1317:GLU:HG3	1:F:1250:LEU:HB2	1.81	0.62
1:D:538:ARG:HG2	1:D:579:MET:HE3	1.81	0.62
1:E:11:TYR:O	1:E:15:VAL:HG23	1.99	0.62
1:E:1524:GLY:HA2	1:E:1531:ASP:OD1	2.00	0.62
2:G:855:ILE:HD13	2:G:856:THR:N	2.13	0.62
2:G:1290:TYR:CD2	2:G:1299:VAL:HB	2.34	0.62
2:G:1340:LYS:HE3	2:I:376:ARG:HH22	1.65	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: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:H:967:GLU:HG2	2:H:1000:TYR:CE1	2.34	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: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:J:49:LYS:O	2:J:53:LEU:HG	1.99	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: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
2:L:1180:VAL:HG12	2:L:1188:GLN:H	1.65	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1160:VAL:HB	1:B:1352:MET:HE1	1.81	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:C:1581:LEU:HD23	1:C:1617:ILE:HG12	1.82	0.62
1:D:947:ASP:O	1:D:951:LEU:HG	1.99	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:E:433:CYS:O	1:E:437:MET:HG3	2.00	0.62
1:F:620:LYS:HA	1:F:625:ASN:O	2.00	0.62
2:G:1351:VAL:HG23	2:G:1584:SER:HA	1.82	0.62
2:G:1356:ALA:HB3	2:G:1397:THR:HG22	1.81	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:47:GLN:NE2	2:I:23:PRO:HB2	2.14	0.62
2:H:855:ILE:HD13	2:H:856:THR:N	2.15	0.62
2:H:1948:MET:HE2	2:H:1948:MET:HA	1.81	0.62
2:I:190:TYR:HD1	2:I:201:ILE:HD13	1.65	0.62
2:I:964:ARG:O	2:I:967:GLU:HB2	1.99	0.62
2:I:1189:THR:O	2:I:1191:PRO:HD3	1.99	0.62
2:J:1048:TRP:NE1	2:J:1049:GLN:HE21	1.96	0.62
2:J:1232:VAL:HG12	2:J:1246:LEU:HD23	1.80	0.62
2:K:365:ILE:HG23	2:K:378:ILE:HG22	1.81	0.62
2:K:374:GLU:CA	2:K:377:HIS:CD2	2.78	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:K:1867:MET:HE3	2:K:2005:PHE:CD2	2.34	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:406:ALA:CA	1:F:439:ARG:HH11	2.10	0.62
1:F:1670:HIS:CE1	2:L:1009:ASN:ND2	2.68	0.62
1:F:1702:ARG:HG3	1:F:1702:ARG:NH1	2.10	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1175:MET:HE2	2:I:1234:ILE:HG21	1.81	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: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
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:L:472:THR:H	2:L:493:MET:HE3	1.65	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
1:A:1081:ILE:HA	1:A:1163:GLN:NE2	2.14	0.61
1:B:911:LEU:O	1:B:915:MET:HG3	1.99	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:C:1160:VAL:HB	1:C:1352:MET:HE1	1.82	0.61
1:D:538:ARG:CG	1:D:579:MET:HE3	2.29	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:49:LYS:O	2:I:53:LEU:HG	2.00	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:J:917:ARG:N	2:J:917:ARG:HD2	2.16	0.61
2:J:937:ARG:NE	2:J:941:LEU:HD11	2.14	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: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:22:ARG:O	2:L:37:VAL:HG23	1.99	0.61
2:L:1290:TYR:CD2	2:L:1299:VAL:HB	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:843:TRP:C	2:H:843:TRP:CD1	2.78	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:272:PRO:O	2:L:276:LEU:HB2	2.00	0.61
2:L:1175:MET:HE2	2:L:1234:ILE:HG21	1.81	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
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
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:G:1701:GLU:H	2:G:1704:MET:HE3	1.63	0.61
2:H:596:ARG:HH22	2:H:1113:ILE:CD1	2.12	0.61
2:H:857:VAL:CG1	2:H:876:TRP:NE1	2.62	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: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:752:HIS:CE1	2:K:847:TYR:CE2	2.76	0.61
2:K:902:ILE:O	2:K:906:LEU:HB2	1.99	0.61
2:K:1305:LEU:H	2:K:1305:LEU:HD12	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
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:HG3	1:E:557:ARG:NH1	2.02	0.61
1:F:926:SER:O	1:F:930:GLN:HG2	2.00	0.61
1:F:1700:GLN:O	1:F:1702:ARG:HG3	2.01	0.61
2:G:608:MET:H	2:G:612:THR:HB	1.65	0.61
2:G:1067:LEU:HB2	4:G:2101:FMN:C7M	2.27	0.61
2:G:1400:GLN:HG3	2:G:1448:ARG:HH12	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1897:GLU:HG2	2:G:1901:GLN:HE21	1.64	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: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:I:1966:ARG:O	2:I:1970:VAL:HG23	2.00	0.61
2:J:24:LEU:HD12	2:J:37:VAL:HG21	1.82	0.61
2:J:87:VAL:HG22	2:J:98:ASN:HB3	1.83	0.61
2:J:596:ARG:HH22	2:J:1113:ILE:CD1	2.13	0.61
2:J:855:ILE:HD13	2:J:856:THR:N	2.14	0.61
2:J:867:LYS:HD3	2:J:1065:CYS:SG	2.40	0.61
2:J:926:LEU:O	2:J:1008:ILE:HD11	2.00	0.61
2:J:1603:PRO:HG2	2:J:1642:MET:HE3	1.81	0.61
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: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
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
1:A:427:ARG:HD2	1:A:490:VAL:HG12	1.81	0.61
1:A:562:SER:HB3	1:F:555:GLN:OE1	1.99	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:A:1100:VAL:HG21	1:A:1150:ILE:HD12	1.82	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
2:G:549:ASN:ND2	2:G:551:GLU:H	1.97	0.61
2:G:1436:ARG:HH22	2:G:1602:LEU:HD13	1.65	0.61
2:I:1764:MET:HG3	2:I:1781:PHE:CE1	2.36	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:J:1048:TRP:HE1	2:J:1049:GLN:HE21	1.46	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
2:K:1178:THR:HG22	2:K:1180:VAL:H	1.64	0.61
2:L:310:ARG:HA	2:L:458:MET:HE1	1.81	0.61
2:L:1709:TYR:C	2:L:1709:TYR:CD2	2.78	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:49:LYS:O	2:G:53:LEU:HG	2.01	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:H:95:HIS:HB2	2:H:96:PRO:HD3	1.83	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:I:1232:VAL:CG1	2:I:1246:LEU:HD23	2.31	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:J:1046:SER:O	2:J:1049:GLN:HG3	2.00	0.61
2:J:1048:TRP:CD2	2:J:1049:GLN:HG2	2.35	0.61
2:K:87:VAL:HG22	2:K:98:ASN:HB3	1.81	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: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:L:57:PRO:HG2	2:L:68:GLU:HG3	1.83	0.61
2:L:209:GLN:O	2:L:213:ARG:HG3	2.00	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:853:MET:HG2	1:A:856:ASN:HD22	1.65	0.61
1:A:1470:ARG:O	1:A:1474:ILE:HG13	1.99	0.61
1:B:405:TRP:CZ3	1:B:1609:SER:HB3	2.35	0.61
1:C:947:ASP:O	1:C:951:LEU:HG	2.00	0.61
1:C:1218:VAL:HG13	1:C:1301:VAL:HG13	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:E:1235:MET:HE2	1:E:1236:TYR:CE1	2.36	0.61
1:F:947:ASP:O	1:F:951:LEU:HG	1.99	0.61
1:F:1490:GLY:O	1:F:1509:THR:HB	2.01	0.61
2:G:618:VAL:O	2:G:622:MET:HG3	2.01	0.61
2:G:1873:ARG:NH1	2:G:2002:ASP:HB3	2.16	0.61
2:H:305:ALA:O	2:H:309:LYS:HD3	2.01	0.61
2:H:686:PRO:HB3	2:H:1187:PHE:CE1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1721:ARG:HH21	2:H:1853:ILE:HD12	1.65	0.61
2:I:779:GLY:HA3	2:I:811:MET:HE3	1.83	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:J:351:LEU:HD22	2:J:352:SER:N	2.15	0.61
2:J:1674:THR:HB	2:J:1676:GLU:HG3	1.83	0.61
2:K:167:VAL:CG2	2:K:169:ILE:HG13	2.29	0.61
2:K:700:GLU:CD	2:K:700:GLU:H	2.08	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
1:E:1702:ARG:HG3	1:E:1702:ARG:NH1	2.09	0.61
1:F:669:VAL:O	1:F:673:LEU:HD12	2.01	0.61
1:F:1090:ASP:OD1	1:F:1092:ASN:HB2	2.00	0.61
1:F:1451:LYS:HG2	1:F:1454:ARG:NH2	2.16	0.61
2:G:752:HIS:NE2	2:G:856:THR:CG2	2.64	0.61
2:G:843:TRP:CD1	2:G:843:TRP:C	2.77	0.61
2:H:1232:VAL:CG1	2:H:1246:LEU:HD23	2.30	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:I:1092:ASN:HA	2:I:1095:ILE:HG12	1.83	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:A:1235:MET:HE2	1:A:1236:TYR:CE1	2.35	0.61
1:B:22:PHE:HE1	2:H:1867:MET:HG3	1.66	0.61
1:B:1094:LYS:HB3	1:B:1154:LEU:HB2	1.83	0.61
1:C:905:LEU:HD22	1:C:911:LEU:HD21	1.83	0.61
1:C:1068:TYR:O	1:C:1072:ILE:HG13	2.01	0.61
1:F:427:ARG:CG	1:F:427:ARG:NH1	2.53	0.61
1:F:1100:VAL:HG21	1:F:1150:ILE:HD12	1.83	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:G:1309:PHE:CE2	2:G:1360:PRO:HA	2.36	0.61
2:H:270:ARG:HG3	2:H:274:GLU:OE1	1.99	0.61
2:H:1807:GLN:HB2	2:H:1808:PRO:HD3	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:876:TRP:CD1	2:I:876:TRP:C	2.79	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:J:1175:MET:HE2	2:J:1234:ILE:HG21	1.82	0.61
2:J:1709:TYR:C	2:J:1709:TYR:CD2	2.78	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:467:ILE:HG23	2:L:468:PRO:HD2	1.83	0.61
2:L:1669:ALA:HB3	2:L:1679:LEU:HB2	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:B:1148:LEU:HD21	1:D:1150:ILE:HG12	1.83	0.61
1:B:1431:GLN:OE1	1:D:1431:GLN:HG2	2.01	0.61
1:B:1670:HIS:CE1	2:H:1009:ASN:ND2	2.69	0.61
1:C:575:ARG:O	1:C:579:MET:HG3	2.01	0.61
1:D:1218:VAL:HG13	1:D:1301:VAL:HG13	1.83	0.61
2:G:310:ARG:HA	2:G:458:MET:HE1	1.82	0.61
2:G:1180:VAL:HG12	2:G:1188:GLN:H	1.66	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:H:1046:SER:O	2:H:1049:GLN:HG3	2.01	0.61
2:I:57:PRO:HG2	2:I:68:GLU:HG3	1.83	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: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: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:K:529:ASN:HD22	2:K:552:VAL:CG2	2.14	0.61
2:K:843:TRP:CD1	2:K:843:TRP:C	2.79	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:620:LYS:HA	1:D:625:ASN:O	2.00	0.60
1:D:1160:VAL:HB	1:D:1352:MET:HE1	1.83	0.60
1:D:1448:ALA:HA	1:D:1451:LYS:CE	2.29	0.60
1:E:486:VAL:CG1	1:E:647:GLY:HA3	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1363:MET:HE1	1:F:1373:VAL:CG2	2.31	0.60
2:G:750:GLY:O	2:G:865:ILE:HA	2.01	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: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:H:1709:TYR:HD2	2:H:1709:TYR:C	2.08	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:K:611:THR:CG2	2:K:817:MET:HE3	2.30	0.60
2:L:94:ALA:HB1	2:L:97:THR:OG1	2.01	0.60
2:L:119:VAL:HG21	2:L:140:TYR:CD2	2.36	0.60
2:L:1189:THR:O	2:L:1191:PRO:HD3	2.01	0.60
1:B:382:ILE:HD12	1:B:761:SER:HB3	1.83	0.60
1:B:683:THR:HB	1:B:714:PHE:HB3	1.83	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:E:628:TYR:C	1:E:628:TYR:CD1	2.78	0.60
1:E:1160:VAL:HB	1:E:1352:MET:HE1	1.83	0.60
1:F:628:TYR:CD1	1:F:628:TYR:C	2.79	0.60
1:F:1443:LEU:HD11	1:F:1470:ARG:HD2	1.83	0.60
2:H:604:MET:HE3	2:H:811:MET:HB2	1.82	0.60
2:H:685:VAL:HG23	2:H:1186:ARG:HH12	1.66	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: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:J:833:VAL:HG13	2:J:1077:LYS:HA	1.82	0.60
2:J:843:TRP:C	2:J:843:TRP:CD1	2.78	0.60
2:J:1538:ASN:HB3	2:J:1541:ILE:HG22	1.84	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:K:779:GLY:HA3	2:K:811:MET:HE3	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1702:ARG:CG	1:A:1702:ARG:NH1	2.45	0.60
1:C:88:ILE:CG2	2:I:1821:MET:HE2	2.30	0.60
1:C:552:ILE:HG12	1:D:552:ILE:HD11	1.83	0.60
1:C:1446:GLU:O	1:C:1450:ILE:HG13	2.01	0.60
1:D:41:THR:HA	2:J:1689:VAL:HB	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
1:F:751:GLU:OE1	1:F:770:MET:HE1	2.00	0.60
2:G:285:HIS:HD2	2:G:501:TRP:CE3	2.19	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: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:I:152:LYS:HB2	2:I:154:TYR: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
2:I:1515:LEU:O	2:I:1523:ILE:HD12	2.01	0.60
2:I:1700:GLN:HA	2:I:1704:MET:CE	2.30	0.60
2:I:1701:GLU:H	2:I:1704:MET:CE	2.15	0.60
2:I:1804:GLN:HB3	2:I:1861:PHE:CE1	2.36	0.60
2:J:94:ALA:HB1	2:J:97:THR:OG1	2.02	0.60
2:J:918:ASN:HB3	2:J:924:VAL:CG2	2.30	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
2:K:1094:HIS:O	2:K:1098:LEU:HB2	2.01	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
2:L:1445:THR:HG23	2:L:1498:PHE:HB2	1.83	0.60
1:B:907:PHE:O	1:B:909:PRO:HD3	2.02	0.60
1:C:751:GLU:OE1	1:C:770:MET:HE1	2.02	0.60
1:E:339:GLN:O	1:E:343:ILE:HG13	2.01	0.60
1:F:427:ARG:NH1	1:F:492:ILE:HG12	2.17	0.60
1:F:1260:ALA:O	1:F:1264:MET:HG3	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:781:GLY:HA2	2:I:1071:VAL:HG13	1.82	0.60
2:I:942:MET:HE2	2:I:955:LEU:HD13	1.82	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:CD2	2.36	0.60
2:J:779:GLY:HA3	2:J:811:MET:HE3	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:570:TYR:HD2	1:E:574:ILE:HD11	1.66	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: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:467:ILE:HG23	2:G:468:PRO:HD2	1.83	0.60
2:G:1922:VAL:HB	2:G:1925:MET:HB2	1.84	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:I:1067:LEU:HB2	4:I:2101:FMN:C7M	2.31	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:388:ASN:C	2:K:388:ASN:HD22	2.09	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:549:ASN:ND2	2:L:551:GLU:H	1.99	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:1706:MET:HE1	2:L:1735:ILE:HG23	1.82	0.60
1:B:987:MET:O	1:B:1490:GLY:HA3	2.00	0.60
1:E:22:PHE:HE2	2:K:2017:PHE:CG	2.20	0.60
1:E:557:ARG:CG	1:E:557:ARG:NH1	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:501:TRP:CZ2	2:H:528:THR:HG21	2.37	0.60
2:H:1171:TRP:CZ3	2:H:1236:LEU:HB2	2.37	0.60
2:I:1564:SER:HB2	2:I:1653:LEU:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1867:MET:HE3	2:I:2005:PHE:CD2	2.36	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:HD2	1.66	0.60
2:J:193:TYR:CD1	2:J:263:ILE:HD13	2.37	0.60
2:J:209:GLN:O	2:J:213:ARG:HG3	2.01	0.60
2:J:917:ARG:HG2	2:J:937:ARG:NH1	2.16	0.60
2:J:930:THR:HA	2:J:1007:LEU:HA	1.83	0.60
2:K:174:GLY:H	2:K:517:GLY:HA3	1.67	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: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:524:LYS:O	1:D:528:GLU:HG3	2.01	0.60
1:D:1490:GLY:O	1:D:1509:THR:HB	2.02	0.60
1:E:673:LEU:O	1:E:678:ALA:HB3	2.00	0.60
1:E:935:GLU:HG3	2:K:1466:VAL:HG11	1.84	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: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: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:1709:TYR:C	2:G:1709:TYR:CD2	2.77	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:396:ILE:H	2:I:396:ILE:HD12	1.66	0.60
2:I:685:VAL:HG23	2:I:1186:ARG:HH12	1.67	0.60
2:I:762:LEU:HA	2:I:805:MET:HE1	1.83	0.60
2:I:855:ILE:HD13	2:I:856:THR:N	2.17	0.60
2:I:1593:SER:OG	2:I:1596:PHE:HB2	2.02	0.60
2:I:1721:ARG:HH21	2:I:1853:ILE:HD12	1.66	0.60
2:J:174:GLY:H	2:J:517:GLY:HA3	1.66	0.60
2:J:914:TRP:HE1	2:J:916:GLY:HA3	1.64	0.60
2:J:1090:ILE:O	2:J:1094:HIS:CD2	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1944:ASN:HA	2:J:1993:PHE:HD2	1.67	0.60
2:K:380:ILE:HG13	2:K:380:ILE:O	2.02	0.60
2:K:1207:THR:O	2:K:1215:THR:HA	2.01	0.60
2:L:24:LEU:HD12	2:L:37:VAL:HG21	1.82	0.60
2:L:102:LEU:O	2:L:106:LEU:HG	2.02	0.60
2:L:440:HIS:HD2	2:L:497:ASP:O	1.84	0.60
2:L:1515:LEU:O	2:L:1523:ILE:HD12	2.02	0.60
2:L:1867:MET:HE3	2:L:2005:PHE:CD2	2.37	0.60
1:A:1113:LYS:HG3	1:A:1138:TYR:CE2	2.37	0.60
1:C:502:ALA:HA	1:C:929:ARG:HD3	1.83	0.60
1:C:1005:TRP:CD1	1:C:1561:LEU:HD22	2.37	0.60
1:D:22:PHE:HE2	2:J:2017:PHE:CG	2.20	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: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:G:1403:ALA:HB2	2:G:1447:GLN:HG3	1.82	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:H:788:THR:HG22	2:H:1094:HIS:CE1	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
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:95:HIS:HB2	2:K:96:PRO:HD3	1.84	0.60
2:K:410:ALA:HB1	2:K:414:LEU:HD12	1.83	0.60
2:K:1232:VAL:CG1	2:K:1246:LEU:HD23	2.32	0.60
2:K:1709:TYR:C	2:K:1709:TYR:CD2	2.79	0.60
2:K:1918:VAL:HG13	2:K:2006:HIS:HB2	1.84	0.60
2:L:172:ILE:HG22	2:L:514:VAL:O	2.02	0.60
2:L:670:MET:HE2	2:L:674:ILE:HD11	1.83	0.60
2:L:833:VAL:HG13	2:L:1077:LYS:HA	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
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
1:A:673:LEU:O	1:A:678:ALA:HB3	2.02	0.60
1:A:1078:ILE:HG23	1:A:1352:MET:HE2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:11:TYR:O	1:B:15:VAL:HG23	2.02	0.60
1:B:1224:SER:HB2	1:B:1307:PHE:O	2.01	0.60
1:C:399:TYR:OH	1:C:692:THR:HG23	2.01	0.60
1:C:1470:ARG:O	1:C:1474:ILE:HG13	2.01	0.60
1:D:40:ARG:NH2	1:D:72:THR:HG22	2.17	0.60
2:G:35:PHE:CE1	2:G:108:GLU:HG3	2.37	0.60
2:G:298:ALA:CB	2:G:304:PHE:HA	2.32	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:380:ILE:HG13	2:I:380:ILE:O	2.02	0.60
2:I:580:LEU:HD12	2:I:1103:TYR:CE2	2.36	0.60
2:I:604:MET:HE3	2:I:811:MET:HB2	1.84	0.60
2:I:1722:ALA:CB	2:I:1812:LEU:HD21	2.32	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:J:1795:SER:HB3	2:J:1799:LEU:HD12	1.81	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:K:1564:SER:HB2	2:K:1653:LEU:H	1.67	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:862:GLY:O	1:A:865:LYS:HB2	2.02	0.60
1:A:1168:TRP:NE1	1:A:1173:TYR:HE1	1.99	0.60
1:C:1081:ILE:HG13	1:C:1159:LEU:O	2.00	0.60
1:D:81:TYR:CD1	2:J:1821:MET:HE3	2.36	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:584:SER:HB3	2:G:1114:GLU:O	2.01	0.60
2:G:1554:PRO:HG3	2:G:1659:ILE:HD11	1.84	0.60
2:G:1564:SER:HB2	2:G:1653:LEU:H	1.67	0.60
2:G:1669:ALA:HB3	2:G:1679:LEU:HB2	1.84	0.60
2:H:824:THR:HB	2:H:829:LYS:HE3	1.83	0.60
2:H:2036:ILE:HG22	2:H:2037:GLY:H	1.65	0.60
2:I:613:VAL:HG23	2:I:635:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:661:ASN:HD21	4:I:2101:FMN:HN3	1.48	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:J:117:ASN:OD1	2:J:561:ARG:HB2	2.02	0.60
2:J:298:ALA:HB2	2:J:304:PHE:HA	1.83	0.60
2:J:388:ASN:HD22	2:J:388:ASN:C	2.09	0.60
2:J:467:ILE:HG23	2:J:468:PRO:HD2	1.83	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:D:1451:LYS:HG2	1:D:1454:ARG:NH2	2.16	0.59
1:E:1081:ILE:HA	1:E:1163:GLN:HE22	1.67	0.59
1:E:1095:GLN:O	1:E:1096:LEU:HD23	2.02	0.59
1:E:1307:PHE:HB3	1:E:1357:CYS:CB	2.32	0.59
1:E:1327:ALA:HA	1:E:1340:MET:HE1	1.84	0.59
2:G:170:TYR:CZ	2:G:507:PHE:HB3	2.37	0.59
2:G:1393:ASP:HB3	2:G:1395:LEU:HD21	1.84	0.59
2:H:1094:HIS:O	2:H:1098:LEU:HB2	2.02	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:I:843:TRP:CD1	2:I:843:TRP:C	2.79	0.59
2:I:2036:ILE:CG2	2:I:2037:GLY:N	2.64	0.59
2:J:285:HIS:HD2	2:J:501:TRP:CE3	2.19	0.59
2:J:310:ARG:HA	2:J:458:MET:HE1	1.84	0.59
2:J:1593:SER:OG	2:J:1596:PHE:HB2	2.02	0.59
2:K:204:ILE:HG23	2:K:312:VAL:HG11	1.83	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:L:410:ALA:HB1	2:L:414:LEU:HD12	1.83	0.59
2:L:596:ARG:HH22	2:L:1113:ILE:CD1	2.15	0.59
2:L:825:SER:HB2	2:L:1053:ILE:HG13	1.83	0.59
2:L:882:LYS:HB3	2:L:898:ARG:HH12	1.67	0.59
2:L:1171:TRP:CE3	2:L:1236:LEU:HD22	2.37	0.59
2:L:1232:VAL:CG1	2:L:1246:LEU:HD23	2.31	0.59
2:L:1612:THR:O	2:L:1616:VAL:HG12	2.02	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
1:A:1674:ILE:HD12	2:G:1010:ALA:HB3	1.84	0.59
1:C:15:VAL:HG11	2:I:2022:LEU:HD21	1.84	0.59
1:C:81:TYR:CE1	2:I:1821:MET:HE3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:943:VAL:CG2	2:L:1539:PRO:HG3	2.32	0.59
1:F:1330:GLU:HG2	1:F:1333:ARG:NH1	2.17	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:762:LEU:HA	2:G:805:MET:HE1	1.83	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:I:942:MET:CE	2:I:955:LEU:HB3	2.30	0.59
2:J:902:ILE:O	2:J:906:LEU:HB2	2.02	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:K:57:PRO:CG	2:K:68:GLU:HG3	2.32	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: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:K:1048:TRP:NE1	2:K:1049:GLN:HE21	1.99	0.59
2:K:1818:PHE:HE2	2:K:1822:ARG:HH12	1.49	0.59
2:L:1722:ALA:CB	2:L:1812:LEU:HD21	2.32	0.59
1:A:998:GLY:HA3	1:A:1361:VAL:CG1	2.27	0.59
1:A:1443:LEU:HD11	1:A:1470:ARG:HD2	1.84	0.59
1:B:30:GLU:HB2	2:H:2045:ALA:HB1	1.83	0.59
1:B:42:GLU:OE1	2:H:1688:PRO:HB3	2.03	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: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: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:24:LEU:HD12	2:G:37:VAL:HG21	1.83	0.59
2:G:1305:LEU:H	2:G:1305:LEU:HD12	1.67	0.59
2:G:1966:ARG:O	2:G:1970:VAL:HG23	2.01	0.59
2:H:747:ARG:NH1	2:H:780:SER:HB3	2.17	0.59
2:H:1709:TYR:C	2:H:1709:TYR:CD2	2.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:24:LEU:HD12	2:K:37:VAL:HG21	1.84	0.59
2:L:768:ILE:O	2:L:774:ILE:HD12	2.01	0.59
1:A:532:ILE:CG2	1:A:907:PHE:CB	2.80	0.59
1:A:636:TYR:CD1	1:A:888:ILE:HD11	2.37	0.59
1:B:989:ASN:H	1:B:1491:ASN:ND2	1.89	0.59
1:B:1269:SER:O	1:D:1386:THR:HB	2.02	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:42:GLU:OE1	2:K:1688:PRO:HB3	2.02	0.59
1:E:551:LEU:HD23	1:E:551:LEU:C	2.27	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:HG	2:G:741:LEU:O	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: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: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:K:70:SER:HB2	2:K:74:GLU:OE2	2.01	0.59
2:K:685:VAL:CG2	2:K:1186:ARG:HH12	2.04	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: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:B:1323:ALA:HB1	1:B:1351:PHE:HE2	1.68	0.59
1:C:628:TYR:CD1	1:C:628:TYR:C	2.79	0.59
1:C:766:ALA:HA	1:C:769:ILE:HD12	1.83	0.59
1:C:1307:PHE:HB3	1:C:1357:CYS:CB	2.32	0.59
1:D:617:LEU:N	1:D:617:LEU:HD23	2.17	0.59
1:E:470:GLY:O	1:E:474:ILE:HG13	2.02	0.59
1:E:1581:LEU:HD23	1:E:1617:ILE:HG12	1.84	0.59
1:F:434:ILE:HD11	1:F:490:VAL:HG21	1.83	0.59
2:G:95:HIS:HB2	2:G:96:PRO:HD3	1.84	0.59
2:G:663:ILE:HG21	3:G:2102:NAP:H1D	1.84	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
2:H:706:ILE:HG22	2:H:707:GLN:HG2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2036:ILE:CG2	2:H:2037:GLY:N	2.64	0.59
2:I:686:PRO:HB3	2:I:1187:PHE:CE1	2.36	0.59
2:I:917:ARG:N	2:I:917:ARG:HD2	2.17	0.59
2:I:1266:HIS:NE2	2:I:1275:ARG:HD2	2.17	0.59
2:J:192:THR:C	2:J:194:PRO:HD3	2.27	0.59
2:J:661:ASN:HD21	4:J:2101:FMN:HN3	1.50	0.59
2:J:700:GLU:H	2:J:700:GLU:CD	2.10	0.59
2:J:752:HIS:NE2	2:J:856:THR:CG2	2.66	0.59
2:J:1455:GLN:HB2	2:J:1551:ILE:CD1	2.32	0.59
2:L:962:PHE:O	2:L:966:VAL:HG23	2.03	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
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: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:B:696:GLN:HG3	1:B:697:GLY:N	2.16	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:C:81:TYR:CD1	2:I:1821:MET:HE3	2.36	0.59
1:E:427:ARG:HD2	1:E:490:VAL:HG12	1.85	0.59
1:E:1183:VAL:HG13	1:E:1252:GLU:OE1	2.02	0.59
2:G:186:LEU:HG	2:G:256:VAL:HG22	1.84	0.59
2:H:374:GLU:CA	2:H:377:HIS:CD2	2.77	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:I:129:ILE:HD13	2:I:132:LYS:HE3	1.84	0.59
2:I:612:THR:O	2:I:612:THR:HG22	2.00	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:K:192:THR:C	2:K:194:PRO:HD3	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:F:1446:GLU:O	1:F:1450:ILE:HG13	2.03	0.59
2:G:1454:MET:HE2	2:G:1454:MET:HA	1.83	0.59
2:H:70:SER:HB2	2:H:74:GLU:OE2	2.02	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:725:GLN:HG2	2:H:764:MET:HE1	1.84	0.59
2:H:1266:HIS:NE2	2:H:1275:ARG:HD2	2.18	0.59
2:I:422:THR:HG23	2:I:844:GLU:CD	2.28	0.59
2:I:788:THR:HG22	2:I:1094:HIS:CE1	2.37	0.59
2:J:350:MET:HG3	2:J:435:ILE:HB	1.85	0.59
2:J:380:ILE:O	2:J:380:ILE:HG13	2.03	0.59
2:J:635:TYR:CB	2:J:641:MET:HG3	2.32	0.59
2:J:876:TRP:C	2:J:876:TRP:CD1	2.81	0.59
2:J:2036:ILE:HG22	2:J:2037:GLY:H	1.67	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:K:1933:LEU:O	2:K:1989:LEU:HD21	2.03	0.59
2:L:752:HIS:CE1	2:L:847:TYR:CE2	2.80	0.59
2:L:1090:ILE:O	2:L:1094:HIS:HD2	1.84	0.59
2:L:1305:LEU:H	2:L:1305:LEU:HD12	1.65	0.59
1:A:427:ARG:CG	1:A:427:ARG:NH1	2.57	0.59
1:A:767:HIS:CE1	1:F:767:HIS:HE1	2.20	0.59
1:A:1079:ARG:HG2	1:A:1079:ARG:NH1	2.09	0.59
1:A:1446:GLU:O	1:A:1450:ILE:HG13	2.01	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:57:PRO:HG2	2:G:68:GLU:HG3	1.83	0.59
2:G:699:ILE:HD12	2:G:699:ILE:H	1.67	0.59
2:G:1007:LEU:HD12	2:G:1007:LEU:N	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:170:TYR:CE2	2:K:507:PHE:HB3	2.37	0.59
2:K:1342:PHE:HE2	2:K:1391:VAL:CG2	2.14	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
2:L:942:MET:HE2	2:L:955:LEU:HD13	1.84	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: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
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:A:987:MET:O	1:A:1490:GLY:HA3	2.03	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: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: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:C:1223:GLY:HA3	1:C:1276:PRO:HD2	1.84	0.59
1:C:1504:ARG:CG	1:C:1504:ARG:NH1	2.41	0.59
1:D:68:TYR:CD1	2:L:371:HIS:CD2	2.90	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:22:ARG:O	2:G:37:VAL:HG23	2.03	0.59
2:G:228:LEU:O	2:G:232:HIS:HD2	1.86	0.59
2:G:612:THR:O	2:G:612:THR:HG22	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:H:942:MET:HE2	2:H:955:LEU:HD13	1.85	0.59
2:I:700:GLU:CD	2:I:700:GLU:H	2.11	0.59
2:I:747:ARG:NH1	2:I:780:SER:HB3	2.18	0.59
2:I:752:HIS:NE2	2:I:856:THR:CG2	2.65	0.59
2:I:1007:LEU:H	2:I:1007:LEU:CD1	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:1709:TYR:HD2	2:I:1709:TYR:C	2.11	0.59
2:I:1807:GLN:HB2	2:I:1808:PRO:HD3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:762:LEU:HA	2:J:805:MET:HE1	1.85	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: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
2:K:1991:ARG:HG3	2:K:1996:ILE:HG12	1.85	0.59
2:L:501:TRP:HE1	2:L:528:THR:CG2	2.09	0.59
2:L:1120:ILE:HD13	2:L:1173:HIS:CE1	2.37	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:A:1121:ARG:NH1	1:E:1153:ALA:O	2.36	0.59
1:B:399:TYR:OH	1:B:692:THR:HG23	2.02	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: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:D:415:TYR:O	1:D:419:PHE:HD1	1.86	0.59
1:D:503:ARG:HA	1:D:933:ILE:HD11	1.85	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:E:957:THR:HG21	2:K:967:GLU:HB3	1.84	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
1:F:1207:TYR:CZ	1:F:1682:LYS:HD2	2.37	0.59
2:G:70:SER:HB2	2:G:74:GLU:OE2	2.03	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:1009:ASN:O	2:G:1013:VAL:HG23	2.02	0.59
2:H:663:ILE:H	2:H:663:ILE:CD1	2.15	0.59
2:H:1061:VAL:CG1	2:H:1066:ILE:HD11	2.33	0.59
2:H:1899:ALA:O	2:H:1903:VAL:HG23	2.03	0.59
2:I:752:HIS:CE1	2:I:847:TYR:CE2	2.79	0.59
2:I:1844:LEU:HB3	2:I:1850:VAL:HG21	1.84	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1721:ARG:HH21	2:K:1853:ILE:HD12	1.66	0.59
2:L:762:LEU:HA	2:L:805:MET:HE1	1.84	0.59
2:L:1899:ALA:O	2:L:1903:VAL:HG23	2.02	0.59
1:A:41:THR:HG21	2:G:1691:ALA:HB2	1.85	0.58
1:A:1307:PHE:HB3	1:A:1357:CYS:HB2	1.85	0.58
1:A:1401:LEU:HD22	1:E:1697:LEU:HD21	1.85	0.58
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:B:1367:LEU:HD22	1:B:1371:MET:HG3	1.84	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:501:ASP:OD2	1:E:503:ARG:HB2	2.03	0.58
1:E:1443:LEU:HD11	1:E:1470:ARG:HD2	1.85	0.58
1:E:1446:GLU:O	1:E:1450:ILE:HG13	2.03	0.58
1:F:6:GLU:HA	2:L:2050:ILE:HD11	1.85	0.58
1:F:696:GLN:HG3	1:F:697:GLY:N	2.17	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: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:H:992:ALA:O	2:H:995:ARG:HB3	2.02	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:I:120:HIS:HD2	2:I:137:VAL:HG21	1.66	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: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: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: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:606:ALA:HB2	2:L:811:MET:HG3	1.83	0.58
2:L:616:ASP:OD1	2:L:616:ASP:N	2.35	0.58
2:L:1867:MET:O	2:L:2003:VAL:HG21	2.02	0.58
1:B:434:ILE:HD11	1:B:490:VAL:HG21	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:C:1120:LYS:HD3	1:C:1129:ILE:HG12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1580:VAL:O	1:D:1617:ILE:HD11	2.02	0.58
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: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:G:1538:ASN:HB3	2:G:1541:ILE:HG22	1.85	0.58
2:I:348:THR:HB	2:I:349:PRO:CD	2.33	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:J:875:PHE:CD1	2:J:905:LYS:HD3	2.38	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: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: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:L:610:PRO:HD2	4:L:2101:FMN:C6	2.24	0.58
2:L:952:ASP:OD1	2:L:953:PRO:HD2	2.04	0.58
2:L:1265:TYR:O	2:L:1267:PRO:HD3	2.03	0.58
1:C:828:TRP:HE1	1:C:838:THR:HA	1.67	0.58
1:D:81:TYR:CE1	2:J:1821:MET:HE3	2.37	0.58
1:F:81:TYR:CE1	2:L:1821:MET:HE3	2.39	0.58
1:F:538:ARG:CA	1:F:585:MET:HE1	2.32	0.58
1:F:1218:VAL:HG13	1:F:1301:VAL:HG13	1.85	0.58
2:G:94:ALA:HB1	2:G:97:THR:OG1	2.03	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:1421:ARG:O	2:G:1421:ARG:HG2	2.02	0.58
2:G:2036:ILE:HG22	2:G:2037:GLY:H	1.67	0.58
2:H:380:ILE:O	2:H:380:ILE:HG13	2.03	0.58
2:I:2005:PHE:HB3	2:I:2010:LEU:HD11	1.83	0.58
2:J:57:PRO:HG2	2:J:68:GLU:HG3	1.84	0.58
2:J:1094:HIS:O	2:J:1098:LEU:HB2	2.02	0.58
2:K:298:ALA:CB	2:K:304:PHE:HA	2.32	0.58
2:K:938:MET:HE2	2:K:959:THR:HG22	1.85	0.58
2:L:1436:ARG:NH2	2:L:1602:LEU:CD1	2.66	0.58
1:F:470:GLY:O	1:F:474:ILE:HG13	2.04	0.58
1:F:1107:GLU:HG3	1:F:1108:PRO:CD	2.29	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: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:43:PHE:HZ	2:I:42:HIS:NE2	2.01	0.58
2:H:290:VAL:HG22	2:H:490:LEU:HD13	1.85	0.58
2:H:867:LYS:HD3	2:H:1065:CYS:SG	2.43	0.58
2:I:1309:PHE:CE2	2:I:1360:PRO:HA	2.38	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: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:K:228:LEU:O	2:K:232:HIS:HD2	1.86	0.58
2:K:1370:LEU:HD12	2:K:1373:LEU:HD13	1.85	0.58
2:L:794:GLY:O	2:L:804:PRO:HA	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:B:1336:GLU:O	1:B:1340:MET:HG2	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:C:1381:MET:HE1	1:C:1403:THR:HB	1.85	0.58
1:C:1488:SER:HB3	1:F:1484:GLU:OE1	2.03	0.58
1:D:40:ARG:HH21	1:D:72:THR:HG22	1.69	0.58
1:D:70:ALA:O	2:L:403:LEU:HD12	2.03	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:1234:GLY:HA2	1:D:1238:ASP:HB2	1.84	0.58
1:F:911:LEU:O	1:F:915:MET:HG3	2.04	0.58
1:F:1160:VAL:HB	1:F:1352:MET:HE1	1.85	0.58
2:G:192:THR:C	2:G:194:PRO:HD3	2.29	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:G:1637:VAL:HG11	2:G:1679:LEU:CD1	2.32	0.58
2:H:310:ARG:HA	2:H:458:MET:HE1	1.85	0.58
2:H:351:LEU:HD22	2:H:352:SER:N	2.18	0.58
2:H:762:LEU:HA	2:H:805:MET:HE1	1.84	0.58
2:I:756:ASP:HA	2:I:843:TRP:HH2	1.69	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:J:1309:PHE:CE2	2:J:1360:PRO:HA	2.39	0.58
2:K:349:PRO:O	2:K:392:THR:HG22	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
2:L:1991:ARG:HG3	2:L:1996:ILE:HG12	1.85	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:D:1004:PRO:HD3	1:D:1572:TRP:CH2	2.38	0.58
1:D:1278:GLY:CA	1:D:1630:LYS:HE2	2.33	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:N	2:G:917:ARG:HD2	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:1674:THR:HB	2:H:1676:GLU:HG3	1.84	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:I:926:LEU:O	2:I:1008:ILE:HD11	2.04	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:580:LEU:HD11	2:K:1098:LEU:HB3	1.85	0.58
2:K:918:ASN:HB3	2:K:924:VAL:CG2	2.33	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:L:549:ASN:HD22	2:L:550:THR:N	2.02	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
1:A:1001:GLU:O	1:A:1007:ASN:HA	2.04	0.58
1:A:1491:ASN:HD22	1:A:1491:ASN:H	1.52	0.58
1:B:1081:ILE:HG13	1:B:1159:LEU:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:679:LYS:HG2	1:D:708:GLN:HB3	1.86	0.58
1:D:1425:LEU:HD21	1:D:1429:ARG:NH2	2.17	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: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:H:789:TYR:HB3	2:H:790:PRO:HD3	1.85	0.58
2:H:917:ARG:HH11	2:H:917:ARG:HG2	1.65	0.58
2:I:70:SER:HB2	2:I:74:GLU:OE2	2.03	0.58
2:I:623:ASN:OD1	2:I:653:PRO:HD3	2.02	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: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:J:1844:LEU:HB3	2:J:1850:VAL:HG21	1.85	0.58
2:K:942:MET:HE2	2:K:955:LEU:HD13	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:L:35:PHE:HZ	2:L:104:LEU:HB3	1.69	0.58
2:L:420:PRO:HG3	2:L:847:TYR:CD1	2.38	0.58
2:L:1481:ILE:HD12	2:L:1515:LEU:HD23	1.85	0.58
1:A:1532:LYS:HE2	1:A:1598:VAL:HG11	1.85	0.58
1:B:636:TYR:CD1	1:B:888:ILE:HD11	2.39	0.58
1:B:1425:LEU:HD21	1:B:1429:ARG:NH2	2.18	0.58
1:C:433:CYS:O	1:C:437:MET:HG3	2.03	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:E:1001:GLU:HG2	1:E:1008:ALA:HB2	1.86	0.58
1:F:427:ARG:HG3	1:F:427:ARG:NH1	2.01	0.58
2:G:119:VAL:HG21	2:G:140:TYR:CD2	2.39	0.58
2:G:1083:ILE:O	2:G:1086:ILE:HG13	2.04	0.58
2:H:785:SER:HA	2:H:788:THR:HB	1.86	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:158:LEU:HA	2:K:566:VAL:HG21	1.85	0.58
2:K:472:THR:H	2:K:493:MET:HE3	1.67	0.58
2:K:596:ARG:HH22	2:K:1113:ILE:CD1	2.16	0.58
2:K:609:THR:HG22	2:K:633:GLY:HA3	1.85	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: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
2:L:1944:ASN:HA	2:L:1993:PHE:CD2	2.38	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:B:579:MET:HE2	1:E:612:ILE:HD12	1.85	0.58
1:C:1079:ARG:HG2	1:C:1079:ARG:NH1	2.13	0.58
1:D:751:GLU:OE1	1:D:770:MET:HE1	2.03	0.58
1:D:883:LEU:HA	1:D:888:ILE:HD12	1.85	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
1:E:1711:LEU:O	1:E:1712:LYS:HG3	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: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:I:192:THR:C	2:I:194:PRO:HD3	2.28	0.58
2:J:152:LYS:HB2	2:J:154:TYR:CE1	2.39	0.58
2:J:613:VAL:HG23	2:J:635:TYR:CE1	2.39	0.58
2:J:938:MET:HE2	2:J:959:THR:HG22	1.85	0.58
2:J:1232:VAL:CG1	2:J:1246:LEU:HD23	2.34	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:K:1384:PRO:HB3	2:K:1829:ARG:HH12	1.67	0.58
2:K:1454:MET:HE2	2:K:1454:MET:HA	1.86	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)
2:L:272:PRO:HD3	2:L:301:TRP:CE2	2.38	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
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:871:ARG:CZ	2:G:909:ASP:HB3	2.34	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: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:H:1200:ARG:HD3	2:H:1200:ARG:N	2.10	0.58
2:H:1374:VAL:CG2	2:H:1436:ARG:HE	2.17	0.58
2:I:608:MET:HE3	4:I:2101:FMN:C8	2.34	0.58
2:I:827:GLN:NE2	2:I:827:GLN:H	2.01	0.58
2:I:1899:ALA:O	2:I:1903:VAL:HG23	2.03	0.58
2:J:1093:ASP:O	2:J:1097:PHE:HD1	1.87	0.58
2:J:1305:LEU:H	2:J:1305:LEU:HD12	1.69	0.58
2:K:789:TYR:CE1	2:K:1097:PHE:HB3	2.39	0.58
2:K:1246:LEU:HD11	2:K:1261:PHE:HE1	1.69	0.58
2:L:610:PRO:O	2:L:613:VAL:HG12	2.04	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
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:418:ILE:HA	1:B:462:THR:HB	1.85	0.57
1:B:1118:GLU:OE2	1:D:1154:LEU:HD21	2.03	0.57
1:B:1142:LEU:HD12	1:B:1142:LEU:N	2.18	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:613:PRO:CG	1:F:633:THR:HG21	2.29	0.57
1:F:1224:SER:HB2	1:F:1307:PHE:O	2.04	0.57
2:G:532:LYS:HD3	2:G:537:VAL:HG21	1.86	0.57
2:G:1340:LYS:CE	2:I:376:ARG:HH22	2.17	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: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:I:170:TYR:CZ	2:I:507:PHE:HB3	2.39	0.57
2:I:272:PRO:O	2:I:276:LEU:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:485:ASP:O	2:I:488:PRO:HD2	2.02	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:J:824:THR:HB	2:J:829:LYS:HE3	1.86	0.57
2:J:942:MET:CE	2:J:955:LEU:HB3	2.32	0.57
2:J:2036:ILE:CG2	2:J:2037:GLY:N	2.66	0.57
2:K:616:ASP:N	2:K:616:ASP:OD1	2.36	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:L:1947:LYS:HG2	2:L:1993:PHE:CD1	2.39	0.57
1:A:767:HIS:CE1	1:F:767:HIS:CE1	2.92	0.57
1:A:1234:GLY:HA2	1:A:1238:ASP:HB2	1.85	0.57
1:B:883:LEU:HA	1:B:888:ILE:HD12	1.86	0.57
1:B:1100:VAL:HG21	1:B:1150:ILE:CD1	2.34	0.57
1:B:1250:LEU:HD22	1:D:1317:GLU:HB3	1.85	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: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:397:ARG:CG	1:F:397:ARG:NH1	2.46	0.57
1:F:1038:HIS:O	1:F:1048:SER:HA	2.04	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:618:VAL:O	2:H:622:MET:HG3	2.04	0.57
2:H:1593:SER:OG	2:H:1596:PHE:HB2	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:26:LEU:O	2:J:32:GLU:HA	2.04	0.57
2:J:204:ILE:HG23	2:J:312:VAL:HG11	1.85	0.57
2:J:616:ASP:N	2:J:616:ASP:OD1	2.36	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:J:1007:LEU:H	2:J:1007:LEU:CD1	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:K:875:PHE:O	2:K:878:GLU:HB2	2.03	0.57
2:K:1248:GLU:HA	2:K:1248:GLU:OE1	2.04	0.57
2:K:1421:ARG:HG2	2:K:1421:ARG:O	2.01	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2062:THR:HG22	2:K:2064:SER:N	2.19	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:871:ARG:CZ	2:L:909:ASP:HB3	2.34	0.57
1:A:1078:ILE:CG2	1:A:1352:MET:HE2	2.34	0.57
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:869:ARG:O	1:D:903:GLY:HA3	2.04	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:E:1448:ALA:HA	1:E:1451:LYS:CE	2.32	0.57
1:F:948:HIS:O	1:F:952:TYR:HD2	1.86	0.57
2:G:756:ASP:HA	2:G:843:TRP:HH2	1.69	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: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:I:596:ARG:HH22	2:I:1113:ILE:CD1	2.17	0.57
2:I:918:ASN:HB3	2:I:924:VAL:CG2	2.34	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: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:197:VAL:HG21	2:K:263:ILE:HD11	1.85	0.57
2:K:1142:ILE:HG13	2:K:1209:PRO:CG	2.33	0.57
2:L:663:ILE:HG21	3:L:2102:NAP:H1D	1.86	0.57
2:L:1246:LEU:HD11	2:L:1261:PHE:HE1	1.70	0.57
2:L:1279:GLU:H	2:L:1279:GLU:CD	2.12	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
1:A:1323:ALA:HB1	1:A:1351:PHE:HE2	1.68	0.57
1:B:628:TYR:CD1	1:B:628:TYR:C	2.81	0.57
1:D:628:TYR:CD1	1:D:628:TYR:C	2.81	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:696:GLN:HG3	1:E:697:GLY:N	2.18	0.57
1:F:40:ARG:HH21	1:F:72:THR:HG22	1.69	0.57
1:F:405:TRP:CZ3	1:F:1609:SER:HB3	2.39	0.57
1:F:418:ILE:HA	1:F:462:THR:HB	1.85	0.57
2:G:914:TRP:CD1	2:G:916:GLY:H	2.23	0.57
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: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
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:J:1266:HIS:NE2	2:J:1275:ARG:HD2	2.19	0.57
2:K:152:LYS:HB2	2:K:154:TYR:CE1	2.40	0.57
2:K:1120:ILE:CD1	2:K:1173:HIS:CE1	2.86	0.57
2:K:1897:GLU:HG2	2:K:1901:GLN:HE21	1.68	0.57
2:L:192:THR:C	2:L:194:PRO:HD3	2.28	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
2:L:1674:THR:HB	2:L:1676:GLU:HG3	1.86	0.57
1:A:433:CYS:O	1:A:437:MET:HG3	2.04	0.57
1:A:1421:ARG:HD2	1:A:1489:PHE:O	2.05	0.57
1:B:1307:PHE:HA	1:B:1568:ALA:HB2	1.87	0.57
1:C:1148:LEU:HD21	1:F:1150:ILE:HG12	1.85	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:F:1084:GLU:H	1:F:1084:GLU:CD	2.13	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: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: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:J:1203:TYR:HB3	2:J:1220:ARG:HB2	1.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:751:GLU:OE1	1:A:770:MET:HE1	2.03	0.57
1:C:42:GLU:OE1	2:I:1688:PRO:HB3	2.04	0.57
1:C:538:ARG:CA	1:C:585:MET:HE1	2.34	0.57
1:C:1267:LEU:HD11	1:C:1303:LEU:HD12	1.85	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
2:H:834:ASP:O	2:H:836:PRO:HD3	2.04	0.57
2:I:616:ASP:OD1	2:I:616:ASP:N	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:604:MET:HE3	2:J:811:MET:HB2	1.85	0.57
2:J:875:PHE:O	2:J:878:GLU:HB2	2.04	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:K:209:GLN:O	2:K:213:ARG:HG3	2.05	0.57
2:K:1090:ILE:O	2:K:1094:HIS:CD2	2.57	0.57
2:L:261:TYR:CD1	2:L:295:ILE:HG12	2.39	0.57
2:L:289:ILE:HG12	2:L:493:MET:CE	2.32	0.57
2:L:902:ILE:O	2:L:906:LEU:HB2	2.03	0.57
2:L:1370:LEU:HA	2:L:1435:TYR:CE2	2.40	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:B:1386:THR:HB	1:D:1269:SER:O	2.04	0.57
1:C:569:LEU:HD22	1:D:544:ASP:HB3	1.87	0.57
1:C:1107:GLU:HG3	1:C:1108:PRO:CD	2.31	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:47:GLN:HG3	2:I:23:PRO:HD2	1.85	0.57
2:H:119:VAL:HG21	2:H:140:TYR:CD2	2.40	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:H:1009:ASN:O	2:H:1013:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:190:TYR:CD1	2:J:201:ILE:HD13	2.39	0.57
2:J:1374:VAL:CG2	2:J:1436:ARG:HE	2.18	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:K:1317:ASN:HB3	2:K:1320:ALA:HB3	1.86	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: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:532:ILE:HG22	1:A:907:PHE:CG	2.40	0.57
1:A:684:THR:HG21	1:A:691:VAL:HG11	1.86	0.57
1:A:875:GLU:O	1:A:878:PHE:HB3	2.04	0.57
1:C:1330:GLU:HG2	1:C:1333:ARG:NH1	2.20	0.57
1:E:31:THR:HG23	2:K:2040:ILE:HG21	1.86	0.57
1:E:1014:MET:O	1:E:1590:ARG:NH2	2.35	0.57
2:G:938:MET:HE2	2:G:959:THR:HG22	1.85	0.57
2:H:138:ARG:HB3	2:H:192:THR:HG23	1.87	0.57
2:H:170:TYR:CZ	2:H:507:PHE:HB3	2.39	0.57
2:H:1194:ARG:NH1	2:H:1194:ARG:CG	2.54	0.57
2:H:1564:SER:HB2	2:H:1653:LEU:H	1.69	0.57
2:H:2073:ASN:O	2:H:2076:LYS:HB3	2.04	0.57
2:J:120:HIS:HD2	2:J:137:VAL:HG21	1.69	0.57
2:J:1015:HIS:NE2	2:J:1019:LEU:HD11	2.20	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:70:SER:HB2	2:L:74:GLU:OE2	2.04	0.57
2:L:618:VAL:O	2:L:622:MET:HG3	2.05	0.57
2:L:1346:MET:HE3	2:L:1617:ARG:NH2	2.19	0.57
1:A:948:HIS:O	1:A:952:TYR:HD2	1.88	0.57
1:B:9:LEU:HB2	2:H:2050:ILE:HD11	1.86	0.57
1:B:847:THR:OG1	1:B:876:MET:HG3	2.04	0.57
1:C:657:MET:HE1	1:C:666:GLY:O	2.04	0.57
1:D:948:HIS:O	1:D:952:TYR:HD2	1.88	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: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:F:399:TYR:OH	1:F:692:THR:HG23	2.04	0.57
1:F:628:TYR:OH	1:F:630:LYS:HE2	2.05	0.57
2:G:915:PHE:HB2	2:G:1030:PHE:CD1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1880:ASN:HB3	2:G:1881:TYR:CD1	2.40	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:1944:ASN:HA	2:H:1993:PHE:CD2	2.40	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:I:1334:ALA:HA	2:I:1341:ASP:HB2	1.87	0.57
2:J:170:TYR:CZ	2:J:507:PHE:HB3	2.40	0.57
2:J:1142:ILE:HG13	2:J:1209:PRO:CG	2.35	0.57
2:J:1804:GLN:HB3	2:J:1861:PHE:CE1	2.39	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:K:1593:SER:OG	2:K:1596:PHE:HB2	2.05	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:94:PRO:HD3	2:H:1559:ASN:ND2	2.19	0.57
1:B:1207:TYR:CZ	1:B:1682:LYS:HD2	2.39	0.57
1:C:869:ARG:O	1:C:903:GLY:HA3	2.05	0.57
1:C:1514:ILE:O	1:C:1547:ARG:NH1	2.38	0.57
1:D:962:ASN:HB3	2:J:969:ARG:CD	2.35	0.57
1:E:965:TYR:CZ	1:E:1199:LEU:CD2	2.78	0.57
1:E:1037:ASN:CG	1:E:1674:ILE:HG23	2.30	0.57
1:E:1425:LEU:HD21	1:E:1429:ARG:NH2	2.19	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: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:H:1231:THR:CG2	2:H:1595:VAL:HG11	2.35	0.57
2:H:1279:GLU:CD	2:H:1279:GLU:H	2.12	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:I:460:ILE:HD13	2:I:487:ILE:HD11	1.87	0.57
2:J:663:ILE:HG21	3:J:2102:NAP:H1D	1.86	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:K:935:VAL:HG11	2:K:997:LEU:HD21	1.86	0.57
2:K:1048:TRP:CD2	2:K:1049:GLN:HG2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1603:PRO:HG2	2:K:1642:MET:HE3	1.86	0.57
2:K:1807:GLN:HB2	2:K:1808:PRO:HD3	1.87	0.57
2:L:834:ASP:O	2:L:836:PRO:HD3	2.05	0.57
2:L:938:MET:HE2	2:L:959:THR:HG22	1.86	0.57
1:B:998:GLY:HA3	1:B:1361:VAL:CG1	2.26	0.56
1:C:636:TYR:CD1	1:C:888:ILE:HD11	2.40	0.56
1:C:1005:TRP:NE1	1:C:1561:LEU:CD2	2.67	0.56
1:E:358:PHE:C	1:E:358:PHE:CD2	2.82	0.56
1:E:418:ILE:HA	1:E:462:THR:HB	1.86	0.56
1:F:799:LEU:HD12	1:F:821:LEU:HB3	1.87	0.56
1:F:1606:VAL:O	1:F:1608:PRO:HD3	2.05	0.56
2:G:167:VAL:HG23	2:G:169:ILE:HG13	1.88	0.56
2:G:608:MET:HE3	4:G:2101:FMN:C8	2.35	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
2:I:298:ALA:HB2	2:I:304:PHE:HA	1.87	0.56
2:I:310:ARG:HA	2:I:458:MET:HE1	1.85	0.56
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: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:J:1445:THR:HG23	2:J:1498:PHE:HB2	1.87	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: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: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:N	2:L:917:ARG:HD2	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:B:22:PHE:HE2	2:H:2017:PHE:CG	2.24	0.56
1:C:350:ASP:HB3	1:C:353:ALA:HB2	1.87	0.56
1:C:1427:LEU:HD11	1:F:1435:TRP:HD1	1.69	0.56
1:D:1107:GLU:HG3	1:D:1108:PRO:CD	2.33	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:83:VAL:O	2:H:87:VAL:HG23	2.05	0.56
2:H:930:THR:HA	2:H:1007:LEU:HA	1.85	0.56
2:H:1194:ARG:NH2	2:H:1601:ASN:CG	2.62	0.56
2:H:1903:VAL:O	2:H:1907:ILE:HG13	2.04	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: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: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
2:L:1764:MET:HG3	2:L:1781:PHE:CE1	2.40	0.56
1:A:548:VAL:HG23	1:F:569:LEU:HD13	1.86	0.56
1:A:1565:PRO:O	1:A:1566:LYS:C	2.47	0.56
1:B:422:LEU:HD13	1:B:429:ILE:HG12	1.87	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:B:1431:GLN:HG2	1:D:1431:GLN:OE1	2.04	0.56
1:C:849:GLY:HA3	1:C:873:GLN:CG	2.36	0.56
1:C:868:VAL:HG11	1:C:908:ILE:CD1	2.34	0.56
1:C:961:ALA:CB	1:C:1022:LEU:HD12	2.35	0.56
1:D:24:MET:HB3	2:J:2043:VAL:HG12	1.86	0.56
1:D:551:LEU:C	1:D:551:LEU:HD23	2.29	0.56
1:D:746:PHE:HB3	3:D:1901:NAP:H52N	1.87	0.56
1:D:905:LEU:HD22	1:D:911:LEU:CD2	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:F:469:LEU:O	1:F:472:GLN:HB3	2.05	0.56
1:F:746:PHE:HB3	3:F:1901:NAP:H52N	1.87	0.56
1:F:847:THR:OG1	1:F:876:MET:HG3	2.06	0.56
1:F:1672:GLY:HA3	1:F:1678:LEU:CD2	2.31	0.56
2:G:349:PRO:O	2:G:392:THR:HG22	2.04	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:G:911:GLN:HG3	2:G:1064:THR:HA	1.87	0.56
2:G:1171:TRP:CE3	2:G:1236:LEU:HD22	2.39	0.56
2:G:1878:ARG:HE	2:G:1986:PRO:HG3	1.70	0.56
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:43:PHE:CE2	2:I:22:ARG:CB	2.87	0.56
2:H:713:HIS:CD2	2:H:740:ILE:HD13	2.40	0.56
2:H:1171:TRP:CE3	2:H:1236:LEU:HD22	2.39	0.56
2:H:1350:ILE:O	2:H:1354:TRP:HB2	2.05	0.56
2:H:1818:PHE:HE2	2:H:1822:ARG:HH12	1.53	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:I:606:ALA:HB2	2:I:811:MET:HG3	1.85	0.56
2:I:635:TYR:CB	2:I:641:MET:HG3	2.34	0.56
2:I:937:ARG:NE	2:I:941:LEU:HD11	2.20	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:1659:ILE:HG13	2:I:1664:ILE:HD11	1.86	0.56
2:J:378:ILE:HD11	2:J:398:LEU:HA	1.86	0.56
2:J:486:ILE:HG23	2:J:490:LEU:HG	1.87	0.56
2:J:612:THR:HG22	2:J:612:THR:O	2.05	0.56
2:J:613:VAL:CG1	2:J:614:PRO:HD3	2.35	0.56
2:J:859:SER:HB3	2:J:863:GLU:HG3	1.88	0.56
2:J:1334:ALA:HA	2:J:1341:ASP:HB2	1.87	0.56
2:K:204:ILE:HG21	2:K:312:VAL:HG21	1.87	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:K:882:LYS:HB3	2:K:898:ARG:NH1	2.21	0.56
2:K:1804:GLN:HB3	2:K:1861:PHE:CE1	2.40	0.56
2:K:1873:ARG:NH1	2:K:2002:ASP:HB3	2.20	0.56
2:L:57:PRO:CG	2:L:68:GLU:HG3	2.35	0.56
2:L:196:PHE:H	2:L:196:PHE:HD2	1.53	0.56
2:L:290:VAL:HG13	2:L:314:LEU:HD23	1.87	0.56
2:L:380:ILE:HG13	2:L:380:ILE:O	2.05	0.56
2:L:590:VAL:HG23	2:L:1091:HIS:CD2	2.40	0.56
2:L:731:ALA:HA	2:L:739:ILE:HD13	1.88	0.56
2:L:756:ASP:HA	2:L:843:TRP:HH2	1.70	0.56
2:L:1944:ASN:HA	2:L:1993:PHE:HD2	1.69	0.56
1:A:911:LEU:O	1:A:915:MET:HG3	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:B:1068:TYR:O	1:B:1072:ILE:HG13	2.06	0.56
1:C:427:ARG:CG	1:C:427:ARG:NH1	2.58	0.56
1:E:532:ILE:HG22	1:E:907:PHE:CB	2.36	0.56
1:E:1448:ALA:CA	1:E:1451:LYS:HE3	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1307:PHE:HB3	1:F:1357:CYS:CB	2.36	0.56
2:G:613:VAL:HG13	2:G:614:PRO:CD	2.35	0.56
2:G:1607:THR:HB	2:G:1643:VAL:O	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:H:1203:TYR:HB3	2:H:1220:ARG:HB2	1.88	0.56
2:H:1207:THR:O	2:H:1215:THR:HA	2.04	0.56
2:H:1566:LYS:O	2:H:1568:PRO:HD3	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: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:992:ALA:O	2:K:995:ARG:HB3	2.05	0.56
2:K:1171:TRP:CZ3	2:K:1236:LEU:HB2	2.40	0.56
2:K:1880:ASN:HB3	2:K:1881:TYR:CD1	2.40	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:40:ARG:NH2	1:A:72:THR:HG22	2.20	0.56
1:A:843:VAL:HG22	1:A:843:VAL:O	2.05	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:C:408:GLN:HG2	1:C:1610:ARG:NH1	2.20	0.56
1:C:687:PHE:C	1:C:687:PHE:CD2	2.84	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:998:GLY:CA	1:E:1361:VAL:HG13	2.27	0.56
1:E:1004:PRO:HD3	1:E:1572:TRP:CH2	2.40	0.56
2:G:382:LEU:HB3	2:G:499:VAL:HB	1.87	0.56
2:G:1897:GLU:HG2	2:G:1901:GLN:NE2	2.20	0.56
2:H:221:TYR:CE2	2:H:225:LEU:HD22	2.40	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:I:1171:TRP:CE3	2:I:1236:LEU:HD22	2.40	0.56
2:J:663:ILE:H	2:J:663:ILE:CD1	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:653:PRO:O	2:L:656:ARG:HB2	2.05	0.56
2:L:699:ILE:H	2:L:699:ILE:CD1	2.19	0.56
2:L:789:TYR:CE1	2:L:1097:PHE:HB3	2.40	0.56
2:L:1053:ILE:HD11	2:L:1061:VAL:HG13	1.86	0.56
2:L:1266:HIS:NE2	2:L:1275:ARG:HD2	2.20	0.56
1:A:1307:PHE:HB3	1:A:1357:CYS:HB3	1.86	0.56
1:B:20:TYR:CE2	2:H:2062:THR:HG23	2.41	0.56
1:B:470:GLY:O	1:B:474:ILE:HG13	2.05	0.56
1:B:751:GLU:OE1	1:B:770:MET:HE1	2.06	0.56
1:C:504:GLY:O	1:C:926:SER:HB2	2.06	0.56
1:C:1510:TRP:HZ3	1:C:1642:LEU:HA	1.70	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:272:PRO:HD3	2:G:301:TRP:CE2	2.40	0.56
2:G:616:ASP:OD1	2:G:616:ASP:N	2.37	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:H:859:SER:CB	2:H:863:GLU:HG3	2.36	0.56
2:H:1880:ASN:HB3	2:H:1881:TYR:CD1	2.40	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:I:1094:HIS:O	2:I:1098:LEU:HB2	2.06	0.56
2:I:1346:MET:HE1	2:I:1632:VAL:O	2.05	0.56
2:I:1607:THR:HB	2:I:1643:VAL:O	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
2:J:861:MET:HB2	2:J:863:GLU:HG2	1.87	0.56
2:J:1897:GLU:HG2	2:J:1901:GLN:NE2	2.21	0.56
2:K:290:VAL:HG13	2:K:314:LEU:HD23	1.88	0.56
2:K:1194:ARG:NH1	2:K:1194:ARG:CG	2.52	0.56
2:L:462:ALA:H	2:L:483:ASP:HA	1.69	0.56
2:L:1818:PHE:HE2	2:L:1822:ARG:HH12	1.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:755:GLU:HB2	1:A:757:ASP:HB2	1.88	0.56
1:A:1534:GLU:HG2	1:A:1625:PHE:CE1	2.40	0.56
1:B:948:HIS:O	1:B:952:TYR:HD2	1.89	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: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
1:F:1100:VAL:HG21	1:F:1150:ILE:CD1	2.36	0.56
2:H:170:TYR:CE2	2:H:507:PHE:HB3	2.40	0.56
2:H:192:THR:C	2:H:194:PRO:HD3	2.29	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: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:1764:MET:HB3	2:H:1780:ILE:CD1	2.35	0.56
2:I:350:MET:HG3	2:I:435:ILE:HB	1.88	0.56
2:I:768:ILE:O	2:I:774:ILE:HD12	2.05	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:J:489:GLU:O	2:J:493:MET:HG3	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: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:K:2013:GLY:C	2:K:2016:PRO:HD2	2.31	0.56
2:L:992:ALA:O	2:L:995:ARG:HB3	2.05	0.56
2:L:1176:PHE:CE1	2:L:1192:LEU:HD13	2.41	0.56
2:L:1421:ARG:O	2:L:1421:ARG:HG2	2.04	0.56
1:A:450:TYR:C	1:A:450:TYR:CD2	2.84	0.56
1:A:989:ASN:H	1:A:1491:ASN:ND2	1.94	0.56
1:A:1153:ALA:O	1:E:1121:ARG:NH1	2.39	0.56
1:B:983:GLN:HB3	1:B:1418:ILE:HG21	1.86	0.56
1:C:847:THR:OG1	1:C:876:MET:HG3	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1330:GLU:OE2	1:D:1342:ARG:NH2	2.39	0.56
1:E:81:TYR:CD1	2:K:1821:MET:HE3	2.41	0.56
1:E:1081:ILE:HA	1:E:1163:GLN:NE2	2.19	0.56
1:E:1367:LEU:HD22	1:E:1371:MET:HG3	1.88	0.56
1:F:421:ARG:HH22	1:F:1613:LYS:HB3	1.71	0.56
1:F:967:PHE:CD2	1:F:1374:PRO:HG3	2.41	0.56
2:G:197:VAL:HG12	2:G:201:ILE:HG13	1.87	0.56
2:G:845:ASN:HB3	2:G:851:THR:HG1	1.69	0.56
2:G:914:TRP:HE1	2:G:916:GLY:HA3	1.69	0.56
2:G:1653:LEU:CD2	2:G:1667:VAL:HG13	2.36	0.56
2:H:350:MET:HG3	2:H:435:ILE:HB	1.88	0.56
2:H:1497:ARG:O	2:H:1505:SER:HB3	2.05	0.56
2:H:1991:ARG:HG3	2:H:1996:ILE:HG12	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:582:LYS:HG3	2:J:1110:VAL:HG11	1.87	0.56
2:J:914:TRP:CD1	2:J:916:GLY:H	2.24	0.56
2:J:1370:LEU:HA	2:J:1435:TYR:CE2	2.41	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: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: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
2:L:1061:VAL:CG1	2:L:1066:ILE:HD11	2.36	0.56
1:A:498:THR:HG21	1:A:858:LEU:CA	2.34	0.56
1:B:673:LEU:O	1:B:678:ALA:HB3	2.06	0.56
1:B:1005:TRP:HE1	1:B:1561:LEU:HD22	1.66	0.56
1:C:421:ARG:HH22	1:C:1613:LYS:HB3	1.71	0.56
1:C:1017:TYR:N	1:C:1017:TYR:HD1	2.04	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:1425:LEU:HD21	1:F:1429:ARG:NH2	2.20	0.56
2:G:57:PRO:CG	2:G:68:GLU:HG3	2.36	0.56
2:G:611:THR:CG2	2:G:817:MET:HE3	2.34	0.56
2:G:663:ILE:H	2:G:663:ILE:CD1	2.14	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:914:TRP:CD1	2:H:916:GLY:H	2.24	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:I:914:TRP:HE1	2:I:916:GLY:HA3	1.71	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:J:745:GLY:HA3	2:J:757:PHE:HB3	1.86	0.56
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: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: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
2:L:1234:ILE:HG12	2:L:1244:LEU:HD13	1.87	0.56
2:L:1346:MET:HE1	2:L:1632:VAL:O	2.05	0.56
2:L:1356:ALA:CB	2:L:1397:THR:HG22	2.35	0.56
1:A:612:ILE:HD12	1:F:579:MET:HE3	1.86	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:B:81:TYR:CE1	2:H:1821:MET:HE3	2.41	0.56
1:C:948:HIS:O	1:C:952:TYR:HD2	1.89	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:D:613:PRO:O	1:D:615:LEU:N	2.37	0.56
1:D:1307:PHE:HB3	1:D:1357:CYS:CB	2.36	0.56
1:E:22:PHE:O	2:K:2006:HIS:HA	2.06	0.56
1:F:527:ALA:HB2	1:F:637:LEU:HD22	1.86	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:83:VAL:O	2:I:87:VAL:HG23	2.05	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: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: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
2:L:505:THR:O	2:L:505:THR:HG22	2.06	0.56
2:L:1309:PHE:CE2	2:L:1360:PRO:HA	2.41	0.56
2:L:1342:PHE:HE2	2:L:1391:VAL:CG2	2.19	0.56
1:A:1118:GLU:OE2	1:E:1154:LEU:HD21	2.05	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:959:PRO:HG2	2:J:974:GLU:HG3	1.88	0.55
1:D:1260:ALA:O	1:D:1264:MET:HG3	2.06	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:G:1721:ARG:HH21	2:G:1853:ILE:HD12	1.70	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: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:I:1061:VAL:CG1	2:I:1066:ILE:HD11	2.36	0.55
2:J:605:VAL:CB	2:J:628:ILE:HG13	2.33	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:K:663:ILE:H	2:K:663:ILE:CD1	2.13	0.55
2:L:152:LYS:HB2	2:L:154:TYR:CE1	2.41	0.55
2:L:520:GLY:C	2:L:522:SER:H	2.15	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
1:A:452:ILE:HD12	1:A:467:LYS:HA	1.87	0.55
1:A:1447:VAL:CG2	1:A:1467:LEU:HD21	2.35	0.55
1:A:1448:ALA:HA	1:A:1451:LYS:CE	2.34	0.55
1:B:501:ASP:OD2	1:B:503:ARG:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1491:ASN:H	1:C:1491:ASN:HD22	1.54	0.55
1:C:1532:LYS:HE2	1:C:1598:VAL:HG11	1.88	0.55
1:D:399:TYR:OH	1:D:692:THR:HG23	2.06	0.55
1:D:498:THR:HG21	1:D:858:LEU:CA	2.34	0.55
1:D:1307:PHE:HA	1:D:1568:ALA:HB2	1.89	0.55
1:F:526:MET:HE3	1:F:614:PHE:HB2	1.88	0.55
2:G:524:ILE:HA	2:G:527:LEU:HD12	1.87	0.55
2:G:590:VAL:HG23	2:G:1091:HIS:CD2	2.42	0.55
2:G:1048:TRP:CD2	2:G:1049:GLN:HG2	2.39	0.55
2:G:1374:VAL:CG2	2:G:1436:ARG:HE	2.20	0.55
2:H:700:GLU:CD	2:H:700:GLU:H	2.14	0.55
2:H:930:THR:CG2	2:H:933:GLU:HG3	2.35	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:I:1046:SER:O	2:I:1049:GLN:HG3	2.06	0.55
2:I:1709:TYR:C	2:I:1709:TYR:CD2	2.83	0.55
2:J:372:LEU:HD11	2:J:397:SER:HB2	1.88	0.55
2:J:1265:TYR:O	2:J:1267:PRO:HD3	2.05	0.55
2:K:172:ILE:HG22	2:K:514:VAL:O	2.07	0.55
2:K:656:ARG:HG2	2:K:656:ARG:NH1	2.21	0.55
2:K:952:ASP:OD1	2:K:953:PRO:HD2	2.06	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: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
2:L:1009:ASN:O	2:L:1013:VAL:HG23	2.07	0.55
1:B:985:ARG:HB3	1:B:1422:ARG:HH22	1.71	0.55
1:B:1095:GLN:O	1:B:1096:LEU:HD23	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: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: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:1078:ILE:HG23	1:F:1352:MET:HE2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:43:PHE:CZ	2:I:42:HIS:NE2	2.74	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:825:SER:CB	2:H:1053:ILE:HG13	2.35	0.55
2:H:861:MET:HB2	2:H:863:GLU:HG2	1.89	0.55
2:H:1074:LYS:HE3	2:H:1075:TYR:CE1	2.38	0.55
2:I:26:LEU:O	2:I:32:GLU:HA	2.06	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
2:J:57:PRO:CG	2:J:68:GLU:HG3	2.37	0.55
2:J:451:ILE:O	2:J:455:VAL:HG23	2.06	0.55
2:J:1171:TRP:CE3	2:J:1236:LEU:HD22	2.41	0.55
2:K:251:PRO:HG3	2:K:316:PHE:CA	2.36	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: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:498:THR:HG21	1:B:858:LEU:CA	2.35	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:C:628:TYR:OH	1:C:630:LYS:HG2	2.07	0.55
1:C:1317:GLU:HB3	1:F:1250:LEU:HD22	1.89	0.55
1:C:1672:GLY:HA3	1:C:1678:LEU:CD2	2.33	0.55
1:D:868:VAL:CG1	1:D:908:ILE:HD11	2.35	0.55
1:E:558:LEU:HB2	1:E:563:GLN:CG	2.34	0.55
1:E:987:MET:O	1:E:1490:GLY:HA3	2.07	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: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: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:349:PRO:O	2:I:392:THR:HG22	2.05	0.55
2:I:1028:VAL:HG13	2:I:1030:PHE:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:K:532:LYS:HD3	2:K:537:VAL:HG21	1.87	0.55
2:L:529:ASN:HD22	2:L:552:VAL:HG23	1.72	0.55
2:L:928:ASP:HA	2:L:1007:LEU:HD23	1.89	0.55
2:L:1224:GLN:OE1	2:L:1224:GLN:HA	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
1:A:1086:PHE:CE2	1:A:1310:PHE:HD2	2.25	0.55
1:B:868:VAL:HG11	1:B:908:ILE:CD1	2.35	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:C:527:ALA:HB2	1:C:637:LEU:HD22	1.89	0.55
1:C:1499:ARG:CD	1:F:1476:ARG:HH12	2.11	0.55
1:C:1565:PRO:O	1:C:1566:LYS:C	2.50	0.55
1:D:1207:TYR:CZ	1:D:1682:LYS:HD2	2.41	0.55
1:E:1078:ILE:HG23	1:E:1352:MET:HE2	1.88	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
2:G:818:THR:HG22	2:G:829:LYS:CB	2.32	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:H:167:VAL:C	2:H:168:LYS:HD2	2.32	0.55
2:H:1637:VAL:CG1	2:H:1679:LEU:HD22	2.37	0.55
2:I:57:PRO:CG	2:I:68:GLU:HG3	2.37	0.55
2:I:462:ALA:HB2	2:I:481:LEU:HB2	1.88	0.55
2:I:590:VAL:HG23	2:I:1091:HIS:CD2	2.41	0.55
2:I:745:GLY:HA3	2:I:757:PHE:HB3	1.88	0.55
2:I:1436:ARG:NH2	2:I:1602:LEU:HD11	2.22	0.55
2:J:290:VAL:HG13	2:J:314:LEU:HD23	1.87	0.55
2:J:1338:ARG:HH21	2:L:327:PRO:CD	2.19	0.55
2:J:2062:THR:HG22	2:J:2064:SER:N	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:565:GLN:O	1:F:565:GLN:HG2	2.07	0.55
1:F:1113:LYS:HG3	1:F:1138:TYR:CE2	2.41	0.55
2:G:289:ILE:HG12	2:G:493:MET:CE	2.32	0.55
2:G:462:ALA:N	2:G:483:ASP:HA	2.21	0.55
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: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:H:1445:THR:HG23	2:H:1498:PHE:HB2	1.87	0.55
2:J:462:ALA:N	2:J:483:ASP:HA	2.20	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:K:465:LEU:HB2	2:K:479:ARG:HG3	1.89	0.55
2:K:827:GLN:H	2:K:827:GLN:CD	2.14	0.55
2:K:1324:PHE:N	2:K:1583:VAL:HG11	2.22	0.55
2:L:917:ARG:HH11	2:L:917:ARG:HG2	1.65	0.55
1:B:36:LEU:HD22	1:B:61:LEU:HD21	1.89	0.55
1:B:1494:TRP:CG	1:B:1505:GLY:HA3	2.42	0.55
1:C:1473:HIS:HE1	1:F:1420:TYR:OH	1.90	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:E:751:GLU:OE1	1:E:770:MET:HE1	2.07	0.55
2:G:21:LEU:HD22	2:G:36:LEU:HG	1.87	0.55
2:G:35:PHE:HD2	2:G:37:VAL:HG22	1.72	0.55
2:G:261:TYR:CD1	2:G:295:ILE:HG12	2.40	0.55
2:G:268:LEU:HD12	2:G:275:LEU:HD11	1.89	0.55
2:G:1903:VAL:O	2:G:1907:ILE:HG13	2.05	0.55
2:H:462:ALA:H	2:H:483:ASP:HA	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:2013:GLY:C	2:H:2016:PRO:HD2	2.32	0.55
2:I:783:GLY:HA3	2:I:1075:TYR:CB	2.37	0.55
2:I:930:THR:CG2	2:I:933:GLU:HG3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:L:26:LEU:O	2:L:32:GLU:HA	2.07	0.55
2:L:315:LEU:HA	2:L:318:ILE:HD12	1.89	0.55
1:A:11:TYR:O	1:A:15:VAL:HG23	2.06	0.55
1:A:1004:PRO:HD3	1:A:1572:TRP:CH2	2.42	0.55
1:B:1580:VAL:O	1:B:1617:ILE:HD11	2.07	0.55
1:D:401:SER:O	1:D:405:TRP:CD1	2.60	0.55
1:E:716:GLN:HB3	1:E:769:ILE:HG23	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: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
1:F:1386:THR:HG22	1:F:1629:GLN:HE21	1.71	0.55
1:F:1447:VAL:CG2	1:F:1467:LEU:HD21	2.35	0.55
2:G:700:GLU:H	2:G:700:GLU:CD	2.15	0.55
2:G:1061:VAL:CG1	2:G:1066:ILE:HD11	2.37	0.55
2:G:1706:MET:HE1	2:G:1735:ILE:HG23	1.89	0.55
2:H:102:LEU:O	2:H:106:LEU:HG	2.07	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: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:778:ALA:HB2	2:J:807:PHE:CD2	2.42	0.55
2:J:1845:VAL:CG2	2:J:1856:LEU:HD22	2.37	0.55
2:K:1805:PHE:O	2:K:1808:PRO:HD2	2.06	0.55
2:L:256:VAL:O	2:L:260:HIS:CD2	2.60	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
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
1:A:985:ARG:HB3	1:A:1422:ARG:HH22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1260:ALA:O	1:A:1264:MET:HG3	2.06	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:562:SER:HB3	1:D:551:LEU:CD2	2.35	0.55
1:E:21:GLN:O	2:K:2006:HIS:HD2	1.90	0.55
1:E:1386:THR:HG22	1:E:1629:GLN:HE21	1.70	0.55
1:F:759:ILE:HG12	1:F:813:LEU:HD23	1.89	0.55
2:H:608:MET:HE3	4:H:2101:FMN:C8	2.37	0.55
2:H:1356:ALA:CB	2:H:1397:THR:HG22	2.37	0.55
2:H:1454:MET:HE2	2:H:1454:MET:HA	1.88	0.55
2:H:1890:ARG:HB3	2:H:1994:ALA:HB2	1.89	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: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:J:327:PRO:N	2:K:1338:ARG:NH2	2.55	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:1246:LEU:HD11	2:J:1261:PHE:HE1	1.70	0.55
2:J:1701:GLU:H	2:J:1704:MET:HE3	1.72	0.55
2:K:83:VAL:O	2:K:87:VAL:HG23	2.07	0.55
2:K:1420:LYS:HG2	2:K:1425:PRO:CA	2.37	0.55
2:K:1729:ASN:O	2:K:1757:ILE:HG23	2.06	0.55
2:L:221:TYR:CE2	2:L:225:LEU:HD22	2.42	0.55
2:L:700:GLU:H	2:L:700:GLU:CD	2.14	0.55
2:L:779:GLY:HA3	2:L:811:MET:HE3	1.89	0.55
2:L:882:LYS:HB3	2:L:898:ARG:NH1	2.22	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
1:A:1164:ILE:CD1	1:A:1355:GLN:HG3	2.37	0.55
1:A:1250:LEU:HD22	1:E:1317:GLU:HB3	1.88	0.55
1:B:1142:LEU:HD12	1:B:1142:LEU:H	1.72	0.55
1:C:960:ARG:NH1	2:I:968:GLU:CD	2.64	0.55
1:E:1107:GLU:HG3	1:E:1108:PRO:CD	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:917:ARG:HD3	2:H:937:ARG:CZ	2.37	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: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: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: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:K:966:VAL:O	2:K:970:PHE:HD1	1.90	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:L:486:ILE:HG23	2:L:490:LEU:HG	1.89	0.55
2:L:1248:GLU:OE1	2:L:1248:GLU:HA	2.06	0.55
2:L:2013:GLY:C	2:L:2016:PRO:HD2	2.32	0.55
1:A:746:PHE:CD2	3:A:1901:NAP:H4D	2.43	0.54
1:A:1094:LYS:HB3	1:A:1154:LEU:HB2	1.89	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: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:D:1547:ARG:HG2	1:D:1604:TYR:HD1	1.71	0.54
1:E:24:MET:HB3	2:K:2043:VAL:HG12	1.89	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:E:1703:VAL:HG22	1:E:1713:PHE:N	2.22	0.54
1:F:1068:TYR:O	1:F:1072:ILE:HG13	2.08	0.54
2:G:613:VAL:HG23	2:G:635:TYR:CE1	2.42	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: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:I:1706:MET:HE1	2:I:1735:ILE:HG23	1.90	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:J:1721:ARG:HH21	2:J:1853:ILE:HD12	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2013:GLY:C	2:J:2016:PRO:HD2	2.33	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
2:K:379:GLY:O	2:K:391:VAL:HG13	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
2:L:35:PHE:HD2	2:L:37:VAL:HG22	1.72	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
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:415:TYR:CD2	1:E:1614:THR:HA	2.42	0.54
1:E:1113:LYS:O	1:E:1117:GLU:HG3	2.07	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
1:F:983:GLN:HB3	1:F:1418:ILE:HG21	1.88	0.54
1:F:1037:ASN:CG	1:F:1674:ILE:HG23	2.32	0.54
1:F:1534:GLU:HG2	1:F:1625:PHE:CE1	2.43	0.54
2:G:83:VAL:O	2:G:87:VAL:HG23	2.08	0.54
2:G:172:ILE:HG22	2:G:514:VAL:O	2.06	0.54
2:H:92:GLU:HB3	2:H:95:HIS:NE2	2.21	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:1028:VAL:HG13	2:H:1030:PHE:CD2	2.43	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: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:J:1746:THR:CB	2:J:1792:THR:HG23	2.35	0.54
2:K:285:HIS:HD2	2:K:501:TRP:CE3	2.24	0.54
2:K:361:VAL:O	2:K:365:ILE:HG13	2.07	0.54
2:K:719:GLY:O	2:K:755:GLU:HG3	2.08	0.54
2:K:1194:ARG:HH21	2:K:1601:ASN:CG	2.15	0.54
2:K:1574:PRO:HD3	2:K:1611:TYR:CE2	2.43	0.54
2:L:285:HIS:HD2	2:L:501:TRP:CE3	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:785:SER:HA	2:L:788:THR:HB	1.87	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
1:A:36:LEU:HD22	1:A:61:LEU:HD21	1.90	0.54
1:A:613:PRO:O	1:A:615:LEU:N	2.35	0.54
1:A:968:PRO:HD2	1:A:1374:PRO:HB3	1.90	0.54
1:B:549:TYR:HE1	1:B:567:ASN:HB3	1.73	0.54
1:B:550:LYS:HZ3	1:B:631:LYS:HE2	1.71	0.54
1:C:1401:LEU:HD22	1:F:1697:LEU:HD21	1.89	0.54
1:C:1431:GLN:HG2	1:F:1431:GLN:OE1	2.08	0.54
1:D:1078:ILE:HG23	1:D:1352:MET:HE2	1.90	0.54
1:E:1584:GLY:HA2	1:E:1617:ILE:CD1	2.38	0.54
1:F:427:ARG:HG3	1:F:492:ILE:HG12	1.89	0.54
1:F:1079:ARG:HG2	1:F:1079:ARG:NH1	2.07	0.54
1:F:1338:GLY:C	1:F:1340:MET:H	2.15	0.54
1:F:1510:TRP:CZ3	1:F:1642:LEU:HA	2.42	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:G:837:GLY:HA3	2:G:1074:LYS:HG2	1.89	0.54
2:G:1603:PRO:HG2	2:G:1642:MET:HE3	1.89	0.54
2:G:1913:TRP:HZ3	2:G:1938:THR:HG21	1.73	0.54
2:H:26:LEU:O	2:H:32:GLU:HA	2.08	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:I:582:LYS:HG3	2:I:1110:VAL:HG11	1.88	0.54
2:I:1377:SER:HB3	2:I:1432:GLN:HB2	1.90	0.54
2:J:465:LEU:HB2	2:J:479:ARG:HG3	1.90	0.54
2:J:1885:ALA:HB2	2:J:1998:LEU:HD21	1.89	0.54
2:K:159:PHE:HA	2:K:162:ALA:HB3	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:K:1053:ILE:HD11	2:K:1061:VAL:HG13	1.88	0.54
2:K:2019:SER:HA	2:K:2022:LEU:HD12	1.89	0.54
2:L:1564:SER:HB2	2:L:1653:LEU:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1566:LYS:O	2:L:1568:PRO:HD3	2.08	0.54
1:A:421:ARG:NH2	1:A:1613:LYS:HB3	2.21	0.54
1:A:1211:LYS:HE3	1:A:1711:LEU:HD21	1.89	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
1:D:1703:VAL:HG12	1:D:1711:LEU:HD22	1.90	0.54
1:E:1078:ILE:CG2	1:E:1352:MET:HE2	2.37	0.54
1:F:904:GLY:HA2	1:F:906:GLN:OE1	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: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: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:H:1317:ASN:HB3	2:H:1320:ALA:HB3	1.90	0.54
2:I:228:LEU:O	2:I:232:HIS:HD2	1.90	0.54
2:I:505:THR:HG22	2:I:505:THR:O	2.08	0.54
2:I:663:ILE:HG21	3:I:2102:NAP:H1D	1.89	0.54
2:J:70:SER:HB2	2:J:74:GLU:OE2	2.08	0.54
2:J:268:LEU:HD12	2:J:275:LEU:HD11	1.90	0.54
2:J:325:ALA:HB2	2:J:447:ALA:HB2	1.89	0.54
2:J:409:LYS:HB3	2:J:428:PHE:CZ	2.42	0.54
2:J:460:ILE:HD13	2:J:487:ILE:HD11	1.89	0.54
2:J:980:LEU:HD22	2:J:986:LEU:HD21	1.89	0.54
2:J:1607:THR:HB	2:J:1643:VAL:O	2.06	0.54
2:K:617:PHE:CE1	2:K:822:ALA:HB2	2.42	0.54
2:K:1769:VAL:HG13	2:K:1774:SER:C	2.32	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:414:TYR:CE2	1:C:418:ILE:HD11	2.43	0.54
1:C:1017:TYR:N	1:C:1017:TYR:CD1	2.75	0.54
1:C:1118:GLU:OE2	1:F:1154:LEU:HD21	2.06	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:746:PHE:HB3	3:E:1901:NAP:H52N	1.89	0.54
1:E:997:THR:HG21	1:E:1363:MET:HE2	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:F:905:LEU:HD23	1:F:908:ILE:HD12	1.90	0.54
2:G:485:ASP:O	2:G:488:PRO:HD2	2.06	0.54
2:G:752:HIS:NE2	2:G:856:THR:HG22	2.21	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:1610:MET:HA	2:G:1610:MET:CE	2.34	0.54
2:H:582:LYS:HG3	2:H:1110:VAL:HG11	1.89	0.54
2:I:186:LEU:CD2	2:I:256:VAL:HG22	2.38	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:779:GLY:HA3	2:I:811:MET:CE	2.38	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:1610:MET:HA	2:I:1610:MET:CE	2.34	0.54
2:I:1873:ARG:NH1	2:I:2002:ASP:HB3	2.23	0.54
2:I:1947:LYS:HG2	2:I:1993:PHE:CD1	2.42	0.54
2:J:186:LEU:CG	2:J:256:VAL:HG22	2.37	0.54
2:J:520:GLY:C	2:J:522:SER:H	2.16	0.54
2:J:1701:GLU:H	2:J:1704:MET:CE	2.19	0.54
2:J:1918:VAL:HG22	2:J:2006:HIS:O	2.08	0.54
2:K:980:LEU:HD22	2:K:986:LEU:HD21	1.90	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: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
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
1:A:350:ASP:HB3	1:A:353:ALA:HB2	1.89	0.54
1:C:526:MET:HE3	1:C:614:PHE:HB2	1.89	0.54
1:C:1142:LEU:N	1:C:1142:LEU:HD12	2.23	0.54
1:D:849:GLY:HA3	1:D:873:GLN:CG	2.38	0.54
1:E:452:ILE:HD12	1:E:467:LYS:HA	1.88	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:F:828:TRP:HE1	1:F:838:THR:HA	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:907:PHE:O	1:F:909:PRO:HD3	2.08	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
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:779:GLY:HA3	2:G:811:MET:HE3	1.90	0.54
2:G:859:SER:CB	2:G:863:GLU:HG3	2.38	0.54
2:H:505:THR:O	2:H:505:THR:HG22	2.06	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: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
2:I:962:PHE:O	2:I:966:VAL:HG23	2.05	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:825:SER:HB2	2:J:1053:ILE:HG13	1.88	0.54
2:J:857:VAL:CG1	2:J:876:TRP:NE1	2.69	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:K:571:ASP:HB3	2:K:574:LYS:HB2	1.89	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:L:251:PRO:HG3	2:L:316:PHE:CA	2.36	0.54
2:L:1128:PRO:HG2	2:L:1135:ALA:CB	2.36	0.54
2:L:1142:ILE:HG13	2:L:1209:PRO:CG	2.38	0.54
2:L:1175:MET:O	2:L:1192:LEU:HD12	2.08	0.54
2:L:1366:ILE:O	2:L:1366:ILE:HG22	2.08	0.54
1:A:1213:VAL:HG13	1:A:1217:GLU:HB2	1.88	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:B:1218:VAL:HG13	1:B:1301:VAL:HG13	1.90	0.54
1:C:358:PHE:C	1:C:358:PHE:CD2	2.85	0.54
1:C:415:TYR:O	1:C:419:PHE:HD1	1.91	0.54
1:C:997:THR:HG21	1:C:1363:MET:HE2	1.89	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1042:LEU:HD12	1:D:1058:PRO:HG3	1.89	0.54
1:E:1001:GLU:O	1:E:1007:ASN:HA	2.07	0.54
1:F:628:TYR:OH	1:F:630:LYS:HG2	2.08	0.54
1:F:1307:PHE:HA	1:F:1568:ALA:HB2	1.89	0.54
2:G:38:PRO:HG2	2:G:41:LEU:HD12	1.89	0.54
2:G:120:HIS:HD2	2:G:137:VAL:HG21	1.71	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: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: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:I:1234:ILE:HG12	2:I:1244:LEU:HD13	1.89	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:J:1377:SER:HB3	2:J:1432:GLN:HB2	1.88	0.54
2:K:330:SER:N	2:L:1331:THR:HG22	2.22	0.54
2:K:1305:LEU:HB3	2:K:1401:ILE:HD12	1.90	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: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: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:H:1764:MET:HG3	2:H:1781:PHE:CE1	2.42	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: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:J:610:PRO:O	2:J:613:VAL:HG12	2.08	0.54
2:J:1903:VAL:O	2:J:1907:ILE:HG13	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2019:SER:HA	2:J:2022:LEU:HD12	1.90	0.54
2:K:762:LEU:HA	2:K:805:MET:HE1	1.90	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:905:LEU:HD22	1:A:911:LEU:HD21	1.88	0.54
1:A:1179:ILE:O	1:A:1183:VAL:HG23	2.07	0.54
1:B:24:MET:HB3	2:H:2043:VAL:HG12	1.90	0.54
1:B:358:PHE:CD2	1:B:358:PHE:C	2.86	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
1:D:636:TYR:CD1	1:D:888:ILE:HD11	2.43	0.54
1:E:767:HIS:CG	1:E:813:LEU:HD12	2.43	0.54
1:E:1491:ASN:H	1:E:1491:ASN:HD22	1.54	0.54
1:E:1514:ILE:O	1:E:1547:ARG:NH1	2.41	0.54
1:E:1532:LYS:HE2	1:E:1598:VAL:HG11	1.88	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:270:ARG:HG3	2:G:274:GLU:CD	2.33	0.54
2:G:501:TRP:HE1	2:G:528:THR:CG2	2.15	0.54
2:H:460:ILE:HD13	2:H:487:ILE:HD11	1.90	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
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: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: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: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:K:1594:ARG:NH1	2:K:1594:ARG:CG	2.68	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:40:ARG:HH21	1:A:72:THR:HG22	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1001:GLU:HG2	1:A:1008:ALA:HB2	1.90	0.54
1:A:1306:GLY:O	1:A:1357:CYS:HB2	2.08	0.54
1:A:1317:GLU:HB3	1:E:1250:LEU:HD22	1.88	0.54
1:A:1670:HIS:CE1	2:G:1009:ASN:ND2	2.76	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
1:E:450:TYR:C	1:E:450:TYR:CD2	2.85	0.54
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:81:TYR:CD1	2:L:1821:MET:HE3	2.43	0.54
1:F:967:PHE:HB3	1:F:968:PRO:CD	2.38	0.54
2:G:204:ILE:HG23	2:G:312:VAL:HG11	1.90	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:HD2	1.73	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:35:PHE:CD2	2:I:37:VAL:HG22	2.43	0.54
2:I:126:VAL:HG12	2:I:127:ALA:H	1.73	0.54
2:I:928:ASP:HA	2:I:1007:LEU:HD23	1.90	0.54
2:I:1200:ARG:HD3	2:I:1200:ARG:N	2.10	0.54
2:I:1963:GLU:HA	2:I:1966:ARG:HB3	1.89	0.54
2:J:138:ARG:CB	2:J:192:THR:HA	2.38	0.54
2:J:1338:ARG:HH21	2:L:326:TYR:HA	1.73	0.54
2:K:1217:ILE:O	2:K:1233:GLU:HA	2.08	0.54
2:L:861:MET:HB2	2:L:863:GLU:HG2	1.89	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
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:469:LEU:O	1:D:472:GLN:HB3	2.07	0.53
1:D:1090:ASP:OD1	1:D:1092:ASN:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:905:LEU:HD23	1:E:908:ILE:HD12	1.89	0.53
1:F:25:PRO:HA	2:L:2006:HIS:HB3	1.90	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:G:1445:THR:CG2	2:G:1498:PHE:HB2	2.38	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:H:520:GLY:C	2:H:522:SER:H	2.16	0.53
2:H:1234:ILE:HG12	2:H:1244:LEU:HD13	1.91	0.53
2:I:172:ILE:HG22	2:I:514:VAL:O	2.08	0.53
2:I:451:ILE:O	2:I:455:VAL:HG23	2.07	0.53
2:I:1410:GLY:HA3	2:I:1436:ARG:HA	1.90	0.53
2:I:1411:LYS:HB3	2:I:1435:TYR:HB2	1.90	0.53
2:I:2059:HIS:HB2	2:I:2067:ILE:HG21	1.89	0.53
2:J:785:SER:HA	2:J:788:THR:HB	1.89	0.53
2:J:2039:TYR:O	2:J:2041:PRO:HD3	2.08	0.53
2:K:161:ALA:HB1	2:K:166:ASN:HB2	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:K:911:GLN:HG3	2:K:1064:THR:HA	1.89	0.53
2:K:1821:MET:HA	2:K:1826:LEU:HD12	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
2:L:1603:PRO:HD2	2:L:1606:ILE:HD11	1.90	0.53
1:A:13:LEU:HD11	2:G:2058:VAL:HG21	1.90	0.53
1:A:1254:PHE:HB2	1:A:1257:THR:OG1	2.08	0.53
1:B:427:ARG:NH1	1:B:492:ILE:HG12	2.23	0.53
1:C:535:TYR:CG	1:C:610:GLU:N	2.76	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:E:1338:GLY:C	1:E:1340:MET:H	2.15	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:F:56:MET:HE2	2:L:1926:GLN:OE1	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:G:662:LEU:HB3	2:G:670:MET:HE3	1.89	0.53
2:G:2013:GLY:C	2:G:2016:PRO:HD2	2.33	0.53
2:H:22:ARG:HD2	2:H:42:HIS:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:727:VAL:HA	2:H:730:ILE:HG12	1.90	0.53
2:H:1436:ARG:HH22	2:H:1602:LEU:HD13	1.72	0.53
2:I:35:PHE:HD2	2:I:37:VAL:HG22	1.72	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: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:J:676:LEU:C	2:J:676:LEU:HD13	2.34	0.53
2:J:1356:ALA:CB	2:J:1397:THR:HG22	2.38	0.53
2:K:376:ARG:NH2	2:L:1340:LYS:HG3	2.24	0.53
2:K:460:ILE:O	2:K:486:ILE:HB	2.08	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:L:186:LEU:CG	2:L:256:VAL:HG22	2.38	0.53
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
2:L:911:GLN:HG3	2:L:1064:THR:HA	1.89	0.53
2:L:1436:ARG:HH22	2:L:1602:LEU:CD1	2.21	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:486:VAL:HG13	1:B:648:LEU:H	1.74	0.53
1:B:1014:MET:O	1:B:1590:ARG:NH2	2.37	0.53
1:B:1084:GLU:CD	1:B:1084:GLU:H	2.14	0.53
1:C:904:GLY:HA2	1:C:906:GLN:OE1	2.07	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:D:486:VAL:HG13	1:D:648:LEU:H	1.73	0.53
1:D:1001:GLU:HG2	1:D:1008:ALA:HB2	1.90	0.53
1:E:382:ILE:HD12	1:E:761:SER:HB3	1.90	0.53
1:E:1108:PRO:HA	1:E:1140:VAL:O	2.08	0.53
1:F:452:ILE:HD12	1:F:467:LYS:HA	1.89	0.53
2:G:506:VAL:O	2:G:506:VAL:CG1	2.57	0.53
2:H:1324:PHE:N	2:H:1583:VAL:HG11	2.23	0.53
2:H:1342:PHE:HE2	2:H:1391:VAL:CG2	2.21	0.53
2:I:609:THR:HG22	2:I:633:GLY:HA3	1.88	0.53
2:I:656:ARG:HG2	2:I:656:ARG:NH1	2.20	0.53
2:I:762:LEU:HD11	2:I:800:PHE:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:903:ILE:HD11	2:I:914:TRP:CZ2	2.43	0.53
2:I:1370:LEU:HA	2:I:1435:TYR:CE2	2.42	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: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: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:358:PHE:C	1:A:358:PHE:CD2	2.87	0.53
1:A:636:TYR:CZ	1:A:640:LEU:HD22	2.42	0.53
1:A:1017:TYR:N	1:A:1017:TYR:HD1	2.05	0.53
1:B:13:LEU:HD11	2:H:2058:VAL:HG21	1.90	0.53
1:B:1307:PHE:HB3	1:B:1357:CYS:HB3	1.90	0.53
1:C:30:GLU:HB2	2:I:2045:ALA:HB1	1.90	0.53
1:C:1435:TRP:HD1	1:F:1427:LEU:HD11	1.72	0.53
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:F:382:ILE:HD12	1:F:761:SER:HB3	1.90	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:G:1224:GLN:OE1	2:G:1224:GLN:HA	2.09	0.53
2:G:2019:SER:HA	2:G:2022:LEU:HD12	1.89	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: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: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
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: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: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:K:608:MET:HE3	4:K:2101:FMN:C8	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1346:MET:HE1	2:K:1632:VAL:O	2.09	0.53
2:L:157:ALA:HB3	2:L:565:ALA:HB3	1.90	0.53
2:L:161:ALA:HB1	2:L:166:ASN:HB2	1.89	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: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
1:A:42:GLU:OE1	2:G:1688:PRO:HB3	2.08	0.53
1:A:415:TYR:CD2	1:A:1614:THR:HA	2.43	0.53
1:A:1037:ASN:CG	1:A:1674:ILE:HG23	2.33	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:C:1078:ILE:HG23	1:C:1352:MET:HE2	1.90	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:D:421:ARG:NH2	1:D:1613:LYS:HB3	2.23	0.53
1:D:1038:HIS:O	1:D:1048:SER:HA	2.08	0.53
1:E:1670:HIS:CE1	2:K:1009:ASN:ND2	2.77	0.53
1:F:628:TYR:HD1	1:F:629:SER:N	2.06	0.53
1:F:767:HIS:CG	1:F:813:LEU:HD12	2.44	0.53
1:F:1565:PRO:O	1:F:1567:GLY:N	2.42	0.53
2:G:26:LEU:O	2:G:32:GLU:HA	2.09	0.53
2:G:1279:GLU:H	2:G:1279:GLU:CD	2.15	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: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:H:1224:GLN:OE1	2:H:1224:GLN:HA	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: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:J:798:THR:HA	2:J:802:TYR:O	2.08	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: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:K:1099:LEU:HD12	2:K:1103:TYR:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1346:MET:CE	2:K:1617:ARG:HH21	2.21	0.53
2:K:1607:THR:HB	2:K:1643:VAL:O	2.08	0.53
2:L:609:THR:HG22	2:L:633:GLY:HA3	1.91	0.53
2:L:1587:TYR:O	2:L:1588:ASN:C	2.51	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:41:THR:HA	2:H:1689:VAL:HB	1.90	0.53
1:B:1692:GLN:HG3	1:B:1696:PHE:CE2	2.44	0.53
1:C:1038:HIS:O	1:C:1048:SER:HA	2.08	0.53
1:E:960:ARG:HH11	1:E:960:ARG:HG3	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: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:H:2021:LEU:O	2:H:2025:ILE:HG13	2.09	0.53
2:I:94:ALA:HB1	2:I:97:THR:OG1	2.07	0.53
2:I:1305:LEU:HD12	2:I:1305:LEU:H	1.72	0.53
2:J:952:ASP:OD1	2:J:953:PRO:HD2	2.08	0.53
2:J:1362:PHE:N	2:J:1363:PRO:HD2	2.24	0.53
2:K:141:TYR:OH	2:K:267:THR:HG23	2.08	0.53
2:K:1007:LEU:HD12	2:K:1007:LEU:N	2.17	0.53
2:K:1074:LYS:HE3	2:K:1075:TYR:CE1	2.41	0.53
2:L:21:LEU:HA	2:L:37:VAL:O	2.08	0.53
2:L:92:GLU:HB3	2:L:95:HIS:NE2	2.24	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:1207:THR:O	2:L:1215:THR:HG23	2.09	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: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: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:575:ARG:HG2	1:F:579:MET:SD	2.49	0.53
1:F:1547:ARG:HG2	1:F:1604:TYR:HD1	1.72	0.53
2:G:1194:ARG:HH21	2:G:1601:ASN:CG	2.17	0.53
2:G:1770:ASN:HB2	2:G:1776:LYS:CE	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H:1410:GLY:HA3	2:H:1436:ARG:HA	1.90	0.53
2:H:1751:GLY:O	2:H:1752:PRO:C	2.52	0.53
2:H:2039:TYR:O	2:H:2041:PRO:HD3	2.09	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:I:912:LYS:HB3	2:I:1030:PHE:HA	1.91	0.53
2:J:276:LEU:HD21	2:J:296:ALA:HA	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:K:861:MET:HB2	2:K:863:GLU:HG2	1.90	0.53
2:L:298:ALA:HB2	2:L:304:PHE:HA	1.90	0.53
2:L:511:THR:C	2:L:512:HIS:CD2	2.87	0.53
2:L:1795:SER:HB3	2:L:1799:LEU:HD12	1.91	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
1:B:585:MET:O	1:B:586:GLN:C	2.51	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: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:C:876:MET:O	1:C:876:MET:HE3	2.09	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:22:PHE:O	2:J:2006:HIS:HA	2.09	0.53
1:D:684:THR:HG21	1:D:691:VAL:HG11	1.90	0.53
1:D:1132:ILE:HD12	1:D:1137:GLN:HB2	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:415:TYR:O	1:F:419:PHE:HD1	1.92	0.53
1:F:1132:ILE:HD12	1:F:1137:GLN:HB2	1.90	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2044:THR:HG22	2:G:2046:LYS:H	1.73	0.53
2:H:21:LEU:HD22	2:H:36:LEU:HG	1.89	0.53
2:H:779:GLY:HA3	2:H:811:MET:HE3	1.90	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: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
2:J:747:ARG:NH2	2:J:757:PHE:CE1	2.77	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: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:L:914:TRP:CD1	2:L:916:GLY:H	2.26	0.53
2:L:1750:GLY:O	2:L:1755:LYS:HE3	2.08	0.53
1:A:628:TYR:HD1	1:A:629:SER:N	2.06	0.53
1:A:1269:SER:O	1:E:1386:THR:HB	2.09	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:636:TYR:CD1	1:E:888:ILE:HD11	2.44	0.53
1:E:968:PRO:HD2	1:E:1374:PRO:HB3	1.90	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:1307:PHE:HA	1:E:1568:ALA:HB2	1.90	0.53
1:F:746:PHE:CE1	1:F:800:PRO:HG3	2.43	0.53
1:F:1491:ASN:HD22	1:F:1491:ASN:H	1.56	0.53
2:G:595:SER:HB3	2:G:602:PRO:CD	2.38	0.53
2:G:1142:ILE:HG13	2:G:1209:PRO:HG3	1.91	0.53
2:G:1805:PHE:O	2:G:1808:PRO:HD2	2.09	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: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:I:170:TYR:CE2	2:I:507:PHE:HB3	2.44	0.53
2:I:379:GLY:O	2:I:391:VAL:HG13	2.09	0.53
2:I:825:SER:CB	2:I:1053:ILE:HG13	2.39	0.53
2:I:915:PHE:CD2	2:I:915:PHE:O	2.62	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:J:21:LEU:HD22	2:J:36:LEU:HG	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:376:ARG:HH22	2:K:1340:LYS:CE	2.22	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:K:317:TRP:CD1	2:K:454:ASP:CG	2.87	0.53
2:K:327:PRO:HD2	2:L:1338:ARG:NH2	2.24	0.53
2:K:613:VAL:HG23	2:K:635:TYR:CE1	2.44	0.53
2:K:662:LEU:HB3	2:K:670:MET:HE3	1.90	0.53
2:L:529:ASN:HD22	2:L:552:VAL:CG2	2.22	0.53
2:L:1982:ALA:O	2:L:1984:PRO:HD3	2.09	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:C:585:MET:O	1:C:586:GLN:C	2.52	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:E:59:ARG:NH1	2:K:1926:GLN:HE21	2.07	0.53
1:E:486:VAL:HG13	1:E:648:LEU:H	1.74	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:F:22:PHE:CE2	2:L:2017:PHE:CG	2.91	0.53
2:G:379:GLY:O	2:G:391:VAL:HG13	2.09	0.53
2:G:610:PRO:CD	4:G:2101:FMN:H6	2.26	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:1007:LEU:H	2:G:1007:LEU:CD1	2.15	0.53
2:I:92:GLU:HB3	2:I:95:HIS:NE2	2.24	0.53
2:I:270:ARG:HG3	2:I:274:GLU:CD	2.33	0.53
2:I:613:VAL:HG13	2:I:614:PRO:HD3	1.91	0.53
2:I:980:LEU:HD22	2:I:986:LEU:HD21	1.91	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
2:I:1566:LYS:O	2:I:1568:PRO:HD3	2.09	0.53
2:J:1180:VAL:HG11	2:J:1187:PHE:CG	2.43	0.53
2:J:1610:MET:HA	2:J:1610:MET:CE	2.32	0.53
2:J:1871:VAL:HG21	2:J:2003:VAL:HA	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:D:1491:ASN:HD22	1:D:1491:ASN:H	1.56	0.52
1:E:714:PHE:CE1	1:E:725:LEU:HD12	2.44	0.52
1:E:1084:GLU:H	1:E:1084:GLU:CD	2.17	0.52
1:E:1213:VAL:HG22	1:E:1300:ARG:CZ	2.39	0.52
1:E:1213:VAL:HG13	1:E:1217:GLU:HB2	1.91	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
1:F:998:GLY:CA	1:F:1361:VAL:HG13	2.31	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: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: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: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:I:410:ALA:HB1	2:I:414:LEU:HD12	1.90	0.52
2:I:1293:TRP:CZ3	2:I:1370:LEU:HD21	2.44	0.52
2:J:196:PHE:H	2:J:196:PHE:HD2	1.56	0.52
2:J:655:GLY:HA3	2:J:1272:ALA:CB	2.39	0.52
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:1835:GLY:HA3	2:J:1839:GLY:C	2.34	0.52
2:J:1890:ARG:HB3	2:J:1994:ALA:HB2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:930:THR:HA	2:K:1007:LEU:HA	1.91	0.52
2:K:1653:LEU:CD2	2:K:1667:VAL:HG13	2.38	0.52
2:K:1706:MET:HE1	2:K:1735:ILE:HG23	1.91	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:L:613:VAL:N	2:L:614:PRO:CD	2.72	0.52
2:L:1067:LEU:O	2:L:1068:GLN:HG2	2.10	0.52
2:L:1500:ASN:HB2	2:L:1503:VAL:H	1.74	0.52
1:A:414:TYR:CE2	1:A:418:ILE:CD1	2.92	0.52
1:A:876:MET:HE3	1:A:876:MET:O	2.09	0.52
1:A:1297:GLY:HA2	1:E:1496:ARG:NH2	2.23	0.52
1:B:30:GLU:HB2	2:H:2045:ALA:CB	2.39	0.52
1:B:1307:PHE:HB3	1:B:1357:CYS:CB	2.39	0.52
1:B:1363:MET:HE1	1:B:1373:VAL:CG2	2.37	0.52
1:B:1702:ARG:HG2	1:B:1702:ARG:NH1	2.16	0.52
1:C:881:LEU:O	1:C:884:MET:HB2	2.09	0.52
1:C:1337:PRO:HA	1:C:1340:MET:CG	2.39	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: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:H:1248:GLU:OE1	2:H:1248:GLU:HA	2.08	0.52
2:H:1457:HIS:ND1	2:H:1487:THR:HG22	2.24	0.52
2:H:1769:VAL:HG13	2:H:1774:SER:C	2.34	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:422:THR:HG23	2:I:844:GLU:OE2	2.09	0.52
2:I:727:VAL:HA	2:I:730:ILE:HG12	1.90	0.52
2:J:260:HIS:CE1	2:J:543:GLY:HA2	2.44	0.52
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:J:1207:THR:O	2:J:1215:THR:HG23	2.09	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: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
2:L:1745:LEU:HD12	2:L:1746:THR:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:1078:ILE:CG2	1:B:1352:MET:HE2	2.40	0.52
1:C:983:GLN:HB3	1:C:1418:ILE:HG21	1.91	0.52
1:D:382:ILE:HD12	1:D:761:SER:HB3	1.91	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:983:GLN:O	1:D:987:MET:HG3	2.10	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:E:1703:VAL:CG1	1:E:1711:LEU:HB3	2.36	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
1:F:985:ARG:HB3	1:F:1422:ARG:HH22	1.75	0.52
1:F:1335:ARG:HH11	1:F:1339:GLU:HG2	1.73	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:G:821:GLU:CD	2:G:1083:ILE:HG13	2.34	0.52
2:G:1813:MET:HG3	2:G:1814:GLU:N	2.23	0.52
2:H:35:PHE:CE1	2:H:105:ILE:HD13	2.44	0.52
2:H:35:PHE:HZ	2:H:104:LEU:HB3	1.74	0.52
2:H:979:LEU:HB2	2:H:996:ILE:HG23	1.91	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: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: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
2:J:962:PHE:O	2:J:965:ARG:HB3	2.08	0.52
2:J:1350:ILE:HG22	2:J:1429:VAL:HG11	1.91	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:K:1913:TRP:HZ3	2:K:1938:THR:HG21	1.74	0.52
2:L:270:ARG:HG3	2:L:274:GLU:CD	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:915:PHE:HB2	2:L:1030:PHE:CD1	2.44	0.52
2:L:934:VAL:O	2:L:938:MET:HG3	2.08	0.52
2:L:1383:VAL:HG23	2:L:1428:TYR:CE1	2.42	0.52
1:A:746:PHE:CE1	1:A:800:PRO:HG3	2.44	0.52
1:A:1480:ARG:NH2	1:E:1488:SER:O	2.37	0.52
1:B:336:PHE:O	1:B:339:GLN:HB2	2.09	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:C:960:ARG:HH11	1:C:960:ARG:HG3	1.75	0.52
1:C:1254:PHE:HB2	1:C:1257:THR:OG1	2.10	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:E:498:THR:HG21	1:E:858:LEU:CA	2.35	0.52
1:E:1005:TRP:HE1	1:E:1561:LEU:HD22	1.71	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
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
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: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:H:1181:PHE:CD1	2:H:1191:PRO:HD2	2.43	0.52
2:H:1421:ARG:O	2:H:1421:ARG:HG2	2.08	0.52
2:H:1637:VAL:HG11	2:H:1679:LEU:HD22	1.90	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:I:2009:PHE:HD2	2:I:2009:PHE:C	2.18	0.52
2:K:837:GLY:HA3	2:K:1074:LYS:HG2	1.91	0.52
2:L:674:ILE:HD13	2:L:705:TYR:HE2	1.72	0.52
2:L:1369:ASP:OD1	2:L:1371:LEU:HB3	2.09	0.52
1:B:1565:PRO:O	1:B:1566:LYS:C	2.52	0.52
1:C:418:ILE:HA	1:C:462:THR:HB	1.91	0.52
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:20:TYR:CE2	2:K:2062:THR:HG23	2.44	0.52
1:E:1079:ARG:CG	1:E:1079:ARG:NH1	2.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1004:PRO:HD3	1:F:1572:TRP:CH2	2.44	0.52
1:F:1363:MET:HE3	1:F:1368:ALA:HB2	1.91	0.52
1:F:1510:TRP:HZ3	1:F:1642:LEU:HA	1.74	0.52
1:F:1640:LYS:HG3	1:F:1641:TYR:HD1	1.73	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:92:GLU:HA	2:H:95:HIS:CE1	2.45	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: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:1519:THR:O	2:H:1520:LYS:HB2	2.08	0.52
2:H:1725:HIS:CD2	2:H:1854:GLU:HB3	2.45	0.52
2:I:511:THR:C	2:I:512:HIS:CD2	2.88	0.52
2:I:834:ASP:O	2:I:836:PRO:HD3	2.10	0.52
2:I:1053:ILE:HD11	2:I:1061:VAL:HG13	1.91	0.52
2:I:1279:GLU:H	2:I:1279:GLU:CD	2.16	0.52
2:I:1324:PHE:N	2:I:1583:VAL:HG11	2.25	0.52
2:I:1403:ALA:HB2	2:I:1447:GLN:HG3	1.91	0.52
2:I:1835:GLY:HA3	2:I:1839:GLY:C	2.34	0.52
2:J:656:ARG:HG2	2:J:656:ARG:NH1	2.23	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:OE1	2:J:1872:GLU:HA	2.08	0.52
2:K:1377:SER:HB3	2:K:1432:GLN:HB2	1.91	0.52
2:K:1554:PRO:HA	2:K:1659:ILE:HG12	1.90	0.52
2:K:1643:VAL:CG1	2:K:1649:ILE:HD11	2.39	0.52
2:K:1890:ARG:HB3	2:K:1994:ALA:HB2	1.92	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:452:ILE:HD12	1:B:467:LYS:HA	1.92	0.52
1:B:526:MET:HE3	1:B:614:PHE:HB2	1.92	0.52
1:B:1451:LYS:HE2	1:B:1463:GLU:OE2	2.10	0.52
1:C:799:LEU:HD12	1:C:821:LEU:HB3	1.91	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:D:405:TRP:CH2	1:D:1609:SER:HB3	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1001:GLU:O	1:D:1007:ASN:HA	2.10	0.52
1:E:868:VAL:CG1	1:E:908:ILE:HD11	2.37	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:O	2:G:792:LEU:HD12	2.09	0.52
2:G:1410:GLY:HA3	2:G:1436:ARG: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: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: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:I:2013:GLY:C	2:I:2016:PRO:HD2	2.33	0.52
2:J:138:ARG:HB3	2:J:192:THR:HG23	1.90	0.52
2:J:868:LEU:O	2:J:870:THR:HG23	2.09	0.52
2:J:1340:LYS:HE3	2:L:376:ARG:NH2	2.23	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: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:K:1064:THR:HG22	2:K:1065:CYS:N	2.25	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
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
1:A:427:ARG:HG3	1:A:427:ARG:NH1	2.06	0.52
1:A:631:LYS:O	1:A:635:ILE:HG22	2.09	0.52
1:A:1038:HIS:O	1:A:1048:SER:HA	2.09	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:1565:PRO:O	1:D:1566:LYS:C	2.52	0.52
1:D:1640:LYS:HG3	1:D:1641:TYR:HD1	1.72	0.52
1:F:1079:ARG:CG	1:F:1079:ARG:NH1	2.63	0.52
2:G:934:VAL:O	2:G:938:MET:HG3	2.09	0.52
2:G:1009:ASN:HB2	2:G:1012:ASP:OD2	2.10	0.52
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:I:190:TYR:CD1	2:I:201:ILE:HD13	2.43	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:I:1382:MET:HG2	2:I:1427:MET:HE2	1.91	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:J:1224:GLN:HA	2:J:1224:GLN:OE1	2.09	0.52
2:J:1445:THR:CG2	2:J:1498:PHE:HB2	2.40	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: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:917:ARG:HD3	2:K:937:ARG:CZ	2.40	0.52
2:K:1171:TRP:CD1	2:K:1172:ARG:N	2.78	0.52
2:K:1750:GLY:O	2:K:1755:LYS:HE3	2.09	0.52
2:K:1751:GLY:O	2:K:1755:LYS:HG2	2.10	0.52
2:K:2044:THR:HG22	2:K:2046:LYS:H	1.73	0.52
2:L:83:VAL:O	2:L:87:VAL:HG23	2.10	0.52
2:L:825:SER:CB	2:L:1053:ILE:HG13	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
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:A:1052:ASP:O	1:A:1055:THR:O	2.28	0.52
1:A:1386:THR:HB	1:E:1269:SER:O	2.09	0.52
1:A:1501:ALA:O	1:A:1504:ARG:HB2	2.10	0.52
1:B:905:LEU:HD22	1:B:911:LEU:CD2	2.38	0.52
1:B:1113:LYS:O	1:B:1117:GLU:HG3	2.10	0.52
1:B:1278:GLY:CA	1:B:1630:LYS:HE2	2.37	0.52
1:B:1337:PRO:HA	1:B:1340:MET:HG3	1.92	0.52
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: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
1:C:1670:HIS:CE1	2:I:1009:ASN:ND2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:1218:VAL:HG22	1:E:1301:VAL:CG1	2.40	0.52
1:F:358:PHE:C	1:F:358:PHE:CD2	2.88	0.52
1:F:636:TYR:CZ	1:F:640:LEU:HD22	2.44	0.52
2:G:21:LEU:HD13	2:G:36:LEU:HD21	1.91	0.52
2:G:161:ALA:HB1	2:G:166:ASN:HB2	1.92	0.52
2:G:374:GLU:CA	2:G:377:HIS:CD2	2.81	0.52
2:G:376:ARG:HE	2:H:1339:GLY:HA2	1.74	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: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
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:662:LEU:HB3	2:I:670:MET:HE3	1.91	0.52
2:I:663:ILE:HD12	2:I:663:ILE:N	2.22	0.52
2:I:1207:THR:O	2:I:1215:THR:HG23	2.09	0.52
2:J:186:LEU:HD21	2:J:256:VAL:HG22	1.89	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:K:270:ARG:HG3	2:K:274:GLU:CD	2.34	0.52
2:K:699:ILE:H	2:K:699:ILE:HD12	1.74	0.52
2:K:825:SER:CB	2:K:1053:ILE:HG13	2.39	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: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
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
1:A:551:LEU:HD21	1:F:562:SER:CB	2.39	0.52
1:A:767:HIS:CG	1:A:813:LEU:HD12	2.45	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:1512:LEU:HD21	1:A:1641:TYR:CE2	2.45	0.52
1:C:519:PHE:O	1:C:523:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:962:ASN:CB	2:J:969:ARG:HD2	2.40	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:1451:LYS:HA	1:F:1454:ARG:NH2	2.25	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: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: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:H:1288:PHE:CE2	2:H:1292:VAL:HG21	2.45	0.52
2:H:1346:MET:HE1	2:H:1632:VAL:O	2.09	0.52
2:I:1115:TYR:OH	2:I:1173:HIS:HD2	1.93	0.52
2:I:2009:PHE:C	2:I:2009:PHE:CD2	2.88	0.52
2:J:35:PHE:HZ	2:J:104:LEU:HB3	1.75	0.52
2:J:251:PRO:HG3	2:J:316:PHE:CA	2.39	0.52
2:J:820:LYS:HB3	2:J:1080:ASP:O	2.10	0.52
2:J:911:GLN:NE2	2:J:1065:CYS:H	2.08	0.52
2:J:1171:TRP:CD1	2:J:1172:ARG:N	2.78	0.52
2:J:1248:GLU:OE1	2:J:1248:GLU:HA	2.10	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:K:1653:LEU:HD21	2:K:1667:VAL:HG13	1.92	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
2:L:1229:VAL:HG12	2:L:1230:LYS:N	2.23	0.52
1:A:983:GLN:O	1:A:987:MET:HG3	2.10	0.52
1:A:997:THR:CG2	1:A:1361:VAL:HG22	2.40	0.52
1:A:1014:MET:O	1:A:1590:ARG:NH2	2.37	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
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:22:PHE:HE2	2:L:2017:PHE:CB	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:26:VAL:CG2	2:L:2006:HIS:CE1	2.93	0.52
1:F:1580:VAL:O	1:F:1617:ILE:HD11	2.09	0.52
2:G:250:PHE:CB	2:G:251:PRO:HD3	2.40	0.52
2:H:656:ARG:HG2	2:H:656:ARG:NH1	2.24	0.52
2:H:1305:LEU:HD23	2:H:1366:ILE:HD11	1.92	0.52
2:H:1587:TYR:O	2:H:1588:ASN:C	2.53	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:I:161:ALA:HB1	2:I:166:ASN:HB2	1.91	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:I:1725:HIS:CD2	2:I:1854:GLU:CB	2.93	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:776:LEU:HG	2:K:807:PHE:CE2	2.45	0.52
2:K:846:THR:HG22	2:K:855:ILE:C	2.35	0.52
2:K:979:LEU:HB2	2:K:996:ILE:HG23	1.92	0.52
2:K:1500:ASN:HB2	2:K:1503:VAL:H	1.76	0.52
2:L:271:GLU:HB2	2:L:274:GLU:HG3	1.92	0.52
2:L:1171:TRP:CH2	2:L:1236:LEU:HB2	2.44	0.52
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: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:C:1213:VAL:HG13	1:C:1217:GLU:HB2	1.92	0.51
1:D:911:LEU:O	1:D:911:LEU:HD12	2.09	0.51
1:D:1179:ILE:O	1:D:1183:VAL:HG23	2.10	0.51
1:E:1592:ALA:O	1:E:1593:ASP:C	2.52	0.51
1:F:36:LEU:HD21	1:F:44:ILE:HD11	1.92	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
2:G:200:LEU:HD21	2:G:262:MET:HE2	1.92	0.51
2:G:505:THR:O	2:G:505:THR:HG22	2.09	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:H:43:PHE:CD1	2:I:22:ARG:CZ	2.92	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:I:726:GLN:O	2:I:730:ILE:HG12	2.10	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: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: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: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:K:821:GLU:CD	2:K:1083:ILE:HG13	2.35	0.51
2:K:1026:LYS:HE2	2:K:1045:ASP:OD2	2.10	0.51
2:K:1279:GLU:CD	2:K:1279:GLU:H	2.16	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:L:600:VAL:HG13	2:L:601:PRO:N	2.25	0.51
2:L:821:GLU:CD	2:L:1083:ILE:HG13	2.34	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
2:L:1231:THR:CG2	2:L:1595:VAL:HG11	2.39	0.51
2:L:1232:VAL:HA	2:L:1245:THR:O	2.10	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:A:1363:MET:HE3	1:A:1368:ALA:HB2	1.90	0.51
1:B:538:ARG:CA	1:B:585:MET:HE1	2.39	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:21:GLN:O	2:I:2006:HIS:HD2	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: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: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:G:1890:ARG:HB3	2:G:1994:ALA:HB2	1.93	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:H:1142:ILE:HG13	2:H:1209:PRO:HG3	1.92	0.51
2:I:38:PRO:HG2	2:I:41:LEU:HD12	1.91	0.51
2:I:388:ASN:HD22	2:I:389:PHE:N	2.08	0.51
2:I:1468:ARG:NH1	2:I:1475:LEU:HD22	2.25	0.51
2:J:76:VAL:O	2:J:80:ILE:HG13	2.11	0.51
2:J:1963:GLU:HA	2:J:1966:ARG:HB3	1.92	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:K:1411:LYS:HB3	2:K:1435:TYR:HB2	1.90	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:608:MET:HE3	4:L:2101:FMN:C8	2.40	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
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
1:A:995:VAL:HG13	1:A:1375:ILE:HG23	1.92	0.51
1:B:943:VAL:CG2	2:H:1539:PRO:HG3	2.40	0.51
1:D:843:VAL:HG22	1:D:843:VAL:O	2.10	0.51
1:E:1218:VAL:O	1:E:1271:GLY:HA3	2.09	0.51
1:F:673:LEU:HD21	1:F:884:MET:CE	2.41	0.51
1:F:1254:PHE:HB2	1:F:1257:THR:OG1	2.10	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
2:H:325:ALA:HB2	2:H:447:ALA:HB2	1.92	0.51
2:H:827:GLN:H	2:H:827:GLN:CD	2.18	0.51
2:H:938:MET:HE2	2:H:959:THR:HG22	1.91	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:HD12	2:I:699:ILE:N	2.26	0.51
2:I:1411:LYS:HB2	2:I:1439:TYR:CD1	2.45	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:J:460:ILE:O	2:J:486:ILE:HB	2.10	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:K:489:GLU:O	2:K:493:MET:HG3	2.11	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:L:752:HIS:CE1	2:L:856:THR:HG21	2.45	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:1454:MET:HE2	2:L:1454:MET:HA	1.91	0.51
1:A:1011:ARG:HD2	1:A:1011:ARG:C	2.36	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:1386:THR:HG22	1:B:1629:GLN:HE21	1.74	0.51
1:B:1565:PRO:O	1:B:1567:GLY:N	2.43	0.51
1:C:427:ARG:NH1	1:C:492:ILE:HG12	2.25	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:1473:HIS:CD2	1:F:1414:PRO:HG2	2.45	0.51
1:D:358:PHE:C	1:D:358:PHE:CD2	2.89	0.51
1:D:498:THR:HG21	1:D:858:LEU:O	2.11	0.51
1:D:833:TRP:HH2	1:D:839:ILE:HD11	1.76	0.51
1:D:1670:HIS:CE1	2:J:1009:ASN:ND2	2.79	0.51
1:E:904:GLY:HA2	1:E:906:GLN:OE1	2.11	0.51
1:E:956:ILE:HA	2:K:977:PRO:HA	1.93	0.51
1:E:1090:ASP:OD1	1:E:1092:ASN:HB2	2.10	0.51
1:F:570:TYR:CE1	1:F:574:ILE:HD11	2.45	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
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:H:1171:TRP:CH2	2:H:1236:LEU:HB2	2.45	0.51
2:H:1594:ARG:NH1	2:H:1594:ARG:CG	2.64	0.51
2:I:285:HIS:CD2	2:I:501:TRP:CE3	2.98	0.51
2:I:520:GLY:C	2:I:522:SER:H	2.17	0.51
2:I:917:ARG:HD3	2:I:937:ARG:CZ	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1104:ASP:OD1	2:I:1104:ASP:N	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: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:L:1835:GLY:HA3	2:L:1839:GLY:C	2.35	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: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:B:498:THR:HG21	1:B:858:LEU:O	2.11	0.51
1:B:1108:PRO:HA	1:B:1140:VAL:O	2.09	0.51
1:B:1381:MET:HE1	1:B:1403:THR:HB	1.93	0.51
1:B:1640:LYS:HG3	1:B:1641:TYR:HD1	1.73	0.51
1:C:1505:GLY:O	1:C:1509:THR:HG23	2.10	0.51
1:D:782:LYS:NZ	1:D:786:LYS:HD2	2.26	0.51
1:D:1451:LYS:HE2	1:D:1463:GLU:OE2	2.10	0.51
1:E:628:TYR:OH	1:E:630:LYS:HE2	2.10	0.51
1:E:1050:TRP:HA	1:E:1050:TRP:CE3	2.46	0.51
1:F:1042:LEU:HD12	1:F:1058:PRO:HG3	1.92	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: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:H:459:LYS:O	2:H:461:PRO:HD3	2.11	0.51
2:H:1891:ILE:HD12	2:H:1895:PHE:CE2	2.45	0.51
2:I:752:HIS:CE1	2:I:856:THR:HG21	2.46	0.51
2:I:1982:ALA:O	2:I:1984:PRO:HD3	2.10	0.51
2:J:350:MET:HG3	2:J:435:ILE:CG2	2.41	0.51
2:J:821:GLU:CD	2:J:1083:ILE:HG13	2.35	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:1279:GLU:CD	2:J:1279:GLU:H	2.18	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
2:K:914:TRP:CD1	2:K:916:GLY:H	2.28	0.51
1:A:628:TYR:OH	1:A:630:LYS:HE2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:687:PHE:C	1:A:687:PHE:CD2	2.88	0.51
1:A:988:VAL:HG12	1:A:990:LEU:HD23	1.92	0.51
1:A:1083:PRO:HD2	1:A:1084:GLU:OE2	2.10	0.51
1:B:1213:VAL:HG22	1:B:1300:ARG:CZ	2.40	0.51
1:B:1338:GLY:C	1:B:1340:MET:H	2.19	0.51
1:C:418:ILE:HG22	1:C:418:ILE:O	2.11	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:D:768:ARG:HA	1:D:772:THR:HG1	1.75	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:D:1113:LYS:O	1:D:1117:GLU:HG3	2.10	0.51
1:E:36:LEU:HD22	1:E:61:LEU:HD21	1.93	0.51
1:E:336:PHE:O	1:E:339:GLN:HB2	2.10	0.51
1:E:876:MET:O	1:E:876:MET:HE3	2.10	0.51
1:E:1565:PRO:O	1:E:1567:GLY:N	2.44	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
1:F:1514:ILE:O	1:F:1547:ARG:NH1	2.43	0.51
2:G:187:ARG:NH2	2:G:230:TRP:O	2.44	0.51
2:G:376:ARG:HH22	2:H:1340:LYS:HE3	1.75	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:H:699:ILE:H	2:H:699:ILE:CD1	2.24	0.51
2:H:846:THR:HG22	2:H:855:ILE:C	2.36	0.51
2:H:1324:PHE:HA	2:H:1583:VAL:HG11	1.93	0.51
2:I:1637:VAL:HG11	2:I:1679:LEU:CD1	2.33	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:J:1123:ALA:O	2:J:1126:GLU:HG3	2.11	0.51
2:K:21:LEU:HD13	2:K:36:LEU:HD21	1.92	0.51
2:K:1002:GLU:C	2:K:1004:SER:H	2.18	0.51
2:K:1142:ILE:HG13	2:K:1209:PRO:HG3	1.92	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:751:HIS:HB2	3:L:2102:NAP:N7N	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1932:ASP:O	2:L:1936:LEU:HD23	2.10	0.51
1:A:1451:LYS:HA	1:A:1454:ARG:NH2	2.26	0.51
1:B:441:ASN:HB2	1:B:444:LEU:H	1.76	0.51
1:B:1542:LEU:HD22	1:B:1547:ARG:HD3	1.92	0.51
1:B:1592:ALA:O	1:B:1593:ASP:C	2.54	0.51
1:C:6:GLU:HA	2:I:2050:ILE:HD11	1.92	0.51
1:C:1367:LEU:HD22	1:C:1371:MET:HG3	1.92	0.51
1:D:997:THR:HG21	1:D:1363:MET:HE2	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:E:1565:PRO:O	1:E:1566:LYS:C	2.52	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
1:F:988:VAL:HG12	1:F:990:LEU:HD23	1.92	0.51
2:G:751:HIS:HB2	3:G:2102:NAP:N7N	2.26	0.51
2:G:1157:VAL:HG13	2:G:1197:ALA:HA	1.92	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:H:821:GLU:CD	2:H:1083:ILE:HG13	2.35	0.51
2:H:1175:MET:HA	2:H:1274:ILE:CD1	2.41	0.51
2:H:1229:VAL:HG12	2:H:1230:LYS:N	2.25	0.51
2:H:2009:PHE:C	2:H:2009:PHE:CD2	2.88	0.51
2:I:24:LEU:HD12	2:I:37:VAL:CG2	2.40	0.51
2:I:1246:LEU:HD11	2:I:1261:PHE:HE1	1.75	0.51
2:I:1701:GLU:H	2:I:1704:MET:HE3	1.75	0.51
2:I:1985:GLN:C	2:I:1987:VAL:N	2.69	0.51
2:J:35:PHE:CE1	2:J:105:ILE:HD13	2.46	0.51
2:J:167:VAL:C	2:J:168:LYS:HD2	2.36	0.51
2:J:718:PRO:HG3	2:J:727:VAL:HG21	1.90	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: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: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:L:608:MET:H	2:L:612:THR:CB	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:783:GLY:HA3	2:L:1075:TYR:CB	2.37	0.51
2:L:894:GLU:CD	2:L:897:LYS:HD3	2.35	0.51
2:L:903:ILE:HD11	2:L:914:TRP:CZ2	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
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:673:LEU:HD21	1:D:884:MET:CE	2.41	0.51
1:D:1068:TYR:O	1:D:1072:ILE:HG13	2.11	0.51
1:D:1703:VAL:HG22	1:D:1712:LYS:C	2.35	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: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
1:F:987:MET:O	1:F:1490:GLY:HA3	2.11	0.51
1:F:1001:GLU:HG2	1:F:1008:ALA:HB2	1.92	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
2:G:1574:PRO:HD3	2:G:1611:TYR:CE2	2.46	0.51
2:H:270:ARG:HG3	2:H:274:GLU:CD	2.36	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:911:GLN:NE2	2:H:1065:CYS:H	2.09	0.51
2:H:980:LEU:HD22	2:H:986:LEU:HD21	1.93	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:I:861:MET:HB2	2:I:863:GLU:HG2	1.91	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:J:202:THR:O	2:J:206:GLU:HG3	2.11	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: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:K:327:PRO:HD2	2:L:1338:ARG:HH21	1.75	0.51
2:K:788:THR:HG22	2:K:1094:HIS:HE1	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1229:VAL:HG12	2:K:1230:LYS:N	2.25	0.51
2:K:1411:LYS:HE3	2:K:1441:ASP:OD2	2.11	0.51
2:K:1521:GLU:OE2	2:K:2028:THR:HG21	2.11	0.51
2:K:1725:HIS:CD2	2:K:1854:GLU:HB3	2.46	0.51
2:L:159:PHE:HA	2:L:162:ALA:HB3	1.91	0.51
2:L:1405:ILE:HA	2:L:1445:THR:OG1	2.11	0.51
2:L:1930:ALA:HB1	2:L:2004:PRO:HB3	1.93	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:961:ALA:HB2	1:A:1022:LEU:HD12	1.91	0.51
1:A:973:TRP:NE1	1:A:1648:LYS:HB2	2.25	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:D:682:VAL:HG11	1:D:695:TYR:CE2	2.46	0.51
1:D:687:PHE:C	1:D:687:PHE:CD2	2.89	0.51
1:D:731:ASP:HB3	1:D:735:GLY:HA3	1.92	0.51
1:D:1017:TYR:N	1:D:1017:TYR:HD1	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:E:1229:THR:HB	1:E:1311:GLN:HG3	1.92	0.51
1:E:1381:MET:HE1	1:E:1403:THR:HB	1.92	0.51
1:E:1546:GLY:O	1:E:1547:ARG:C	2.54	0.51
1:E:1708:ASN:OD1	1:E:1708:ASN:N	2.40	0.51
1:F:1050:TRP:HA	1:F:1050:TRP:CE3	2.46	0.51
2:G:731:ALA:HA	2:G:739:ILE:CD1	2.40	0.51
2:G:1375:HIS:CE1	2:G:1610:MET:SD	3.02	0.51
2:H:585:VAL:O	2:H:585:VAL:HG12	2.11	0.51
2:I:159:PHE:HA	2:I:162:ALA:HB3	1.92	0.51
2:I:778:ALA:HB2	2:I:807:PHE:CD2	2.46	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: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:J:1410:GLY:HA3	2:J:1436:ARG:HA	1.93	0.51
2:J:1947:LYS:HG2	2:J:1993:PHE:CD1	2.46	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:781:GLY:CA	2:K:1071:VAL:HG13	2.41	0.51
2:K:788:THR:CG2	2:K:1094:HIS:CE1	2.94	0.51
2:K:912:LYS:NZ	2:K:1044:LYS:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1175:MET:O	2:K:1192:LEU:HD12	2.11	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:955:VAL:HG11	2:G:964:ARG:HE	1.76	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:A:1592:ALA:O	1:A:1593:ASP:C	2.54	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:B:997:THR:HG21	1:B:1363:MET:HE2	1.93	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:687:PHE:C	1:C:687:PHE:HD2	2.19	0.51
1:C:767:HIS:CG	1:C:813:LEU:HD12	2.46	0.51
1:C:1037:ASN:CG	1:C:1674:ILE:HG23	2.36	0.51
1:C:1495:ARG:HG2	1:C:1495:ARG:HH11	1.76	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:D:967:PHE:CE2	1:D:1662:GLN:CA	2.94	0.51
1:D:1363:MET:HE3	1:D:1368:ALA:HB2	1.91	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:E:687:PHE:C	1:E:687:PHE:CD2	2.89	0.51
1:E:768:ARG:HA	1:E:772:THR:OG1	2.11	0.51
1:F:1017:TYR:N	1:F:1017:TYR:HD1	2.09	0.51
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:35:PHE:HZ	2:G:104:LEU:HB3	1.75	0.51
2:G:92:GLU:HB3	2:G:95:HIS:NE2	2.26	0.51
2:G:315:LEU:HA	2:G:318:ILE:HD12	1.94	0.51
2:G:798:THR:HA	2:G:802:TYR:O	2.11	0.51
2:G:827:GLN:H	2:G:827:GLN:CD	2.18	0.51
2:G:930:THR:CG2	2:G:933:GLU:H	2.23	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:H:783:GLY:HA3	2:H:1075:TYR:CB	2.39	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:I:1362:PHE:N	2:I:1363:PRO:HD2	2.26	0.51
2:J:662:LEU:HB3	2:J:670:MET:HE3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:743:TRP:CD2	2:J:761:ILE:HD11	2.45	0.51
2:J:827:GLN:H	2:J:827:GLN:CD	2.18	0.51
2:J:1017:LEU:O	2:J:1021:GLN:HG3	2.11	0.51
2:J:1047:LEU:HD12	2:J:1047:LEU:N	2.26	0.51
2:J:1454:MET:HE2	2:J:1454:MET:HA	1.93	0.51
2:K:329:THR:HG22	2:L:1331:THR:O	2.11	0.51
2:K:1019:LEU:HA	2:K:1022:ARG:HD2	1.92	0.51
2:K:1587:TYR:O	2:K:1588:ASN:C	2.53	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
2:L:1538:ASN:HB3	2:L:1541:ILE:CG2	2.41	0.51
2:L:2009:PHE:HD2	2:L:2009:PHE:C	2.19	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:902:ASN:C	1:A:904:GLY:H	2.19	0.50
1:A:911:LEU:O	1:A:911:LEU:HD12	2.11	0.50
1:B:81:TYR:CD1	2:H:1821:MET:HE3	2.46	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: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:C:1514:ILE:HD13	1:C:1545:LEU:HB3	1.93	0.50
1:D:905:LEU:HD23	1:D:908:ILE:HD12	1.92	0.50
1:D:1640:LYS:HG3	1:D:1641:TYR:N	2.26	0.50
1:E:414:TYR:C	1:E:414:TYR:CD2	2.88	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:511:THR:C	2:G:512:HIS:CD2	2.89	0.50
2:G:520:GLY:C	2:G:522:SER:H	2.19	0.50
2:G:608:MET:HA	4:G:2101:FMN:N5	2.25	0.50
2:G:980:LEU:CD2	2:G:986:LEU:HD21	2.41	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: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:167:VAL:CG2	2:I:169:ILE:HG13	2.40	0.50
2:I:1248:GLU:OE2	2:I:1250:ARG:NE	2.43	0.50
2:I:1851:MET:HE1	2:I:1859:VAL:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:290:VAL:CG1	2:J:314:LEU:HD23	2.41	0.50
2:J:608:MET:HE3	4:J:2101:FMN:C8	2.42	0.50
2:J:1551:ILE:CG2	2:J:1552:GLU:N	2.74	0.50
2:J:1587:TYR:O	2:J:1588:ASN:C	2.54	0.50
2:J:2057:GLU:HA	2:J:2060:ARG:HH12	1.74	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: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:L:204:ILE:HG21	2:L:312:VAL:HG21	1.92	0.50
2:L:604:MET:CE	2:L:811:MET:HB2	2.41	0.50
2:L:727:VAL:HA	2:L:730:ILE:HG12	1.93	0.50
2:L:827:GLN:H	2:L:827:GLN:CD	2.19	0.50
2:L:1315:ILE:HA	2:L:1393:ASP:O	2.11	0.50
2:L:1370:LEU:CD1	2:L:1373:LEU:HD13	2.40	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:2062:THR:HG22	2:L:2063:GLY:N	2.25	0.50
1:A:893:GLN:OE1	2:L:1751:GLY:HA2	2.11	0.50
1:A:1079:ARG:CG	1:A:1079:ARG:NH1	2.68	0.50
1:B:1161:ALA:HA	1:B:1352:MET:HE3	1.91	0.50
1:C:450:TYR:C	1:C:450:TYR:CD2	2.89	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: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
1:F:1229:THR:HB	1:F:1311:GLN:HG3	1.94	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:G:580:LEU:HG	2:G:1098:LEU:HD23	1.93	0.50
2:G:1028:VAL:HG13	2:G:1030:PHE:CD2	2.45	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
2:H:1421:ARG:HD2	2:H:1426:VAL:CG2	2.41	0.50
2:I:76:VAL:O	2:I:80:ILE:HG13	2.10	0.50
2:I:1171:TRP:CH2	2:I:1236:LEU:HB2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:24:LEU:HD12	2:J:37:VAL:CG2	2.40	0.50
2:J:788:THR:HG22	2:J:1094:HIS:HE1	1.77	0.50
2:J:837:GLY:HA3	2:J:1074:LYS:HG2	1.92	0.50
4:J:2101:FMN:O2'	4:J:2101:FMN:N1	2.44	0.50
2:K:21:LEU:HD22	2:K:36:LEU:HG	1.93	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:L:21:LEU:HD22	2:L:36:LEU:HG	1.91	0.50
2:L:168:LYS:H	2:L:511:THR:HB	1.76	0.50
2:L:589:PHE:CD1	2:L:1116:PHE:CD2	2.99	0.50
2:L:609:THR:HG23	4:L:2101:FMN:O4	2.11	0.50
2:L:1519:THR:O	2:L:1520:LYS:HB2	2.11	0.50
2:L:2021:LEU:HD22	2:L:2025:ILE:HD11	1.93	0.50
1:A:883:LEU:N	1:A:883:LEU:HD23	2.27	0.50
1:B:766:ALA:HA	1:B:769:ILE:HD12	1.94	0.50
1:B:1213:VAL:CG1	1:B:1214:HIS:N	2.72	0.50
1:C:754:ARG:N	1:C:810:ASN:HB3	2.26	0.50
1:D:2:ARG:HB2	1:D:5:VAL:HB	1.94	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:E:613:PRO:C	1:E:615:LEU:N	2.69	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:361:VAL:O	2:G:365:ILE:HG13	2.12	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:1194:ARG:NH2	2:G:1601:ASN:CG	2.70	0.50
2:G:1229:VAL:HG12	2:G:1230:LYS:N	2.27	0.50
2:G:1328:VAL:HA	2:G:1611:TYR:HE1	1.76	0.50
2:G:1338:ARG:NH2	2:I:327:PRO:HD2	2.25	0.50
2:G:1340:LYS:CG	2:I:376:ARG:NH2	2.73	0.50
2:G:1587:TYR:O	2:G:1588:ASN:C	2.55	0.50
2:H:35:PHE:HD2	2:H:37:VAL:HG22	1.76	0.50
2:H:186:LEU:CG	2:H:256:VAL:HG22	2.41	0.50
2:H:662:LEU:HB3	2:H:670:MET:HE3	1.94	0.50
2:H:1192:LEU:HD22	2:H:1196:PHE:HE1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:I:914:TRP:CD1	2:I:916:GLY:H	2.28	0.50
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: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:J:846:THR:HG22	2:J:855:ILE:C	2.36	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: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:914:TRP:CH2	2:K:1033:ALA:HA	2.46	0.50
2:K:980:LEU:CD2	2:K:986:LEU:HD21	2.42	0.50
2:K:1180:VAL:HA	2:K:1188:GLN:O	2.11	0.50
2:K:1555:VAL:HG21	2:K:1824:LYS:HA	1.94	0.50
2:K:1738:VAL:HA	2:K:1800:LEU:HD13	1.93	0.50
2:L:465:LEU:HB2	2:L:479:ARG:HG3	1.93	0.50
2:L:1586:ASP:OD1	2:L:1588:ASN:HB2	2.11	0.50
2:L:2009:PHE:C	2:L:2009:PHE:CD2	2.88	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:A:526:MET:HE3	1:A:614:PHE:HB2	1.93	0.50
1:A:1241:LEU:HD23	1:E:1097:LEU:HD12	1.93	0.50
1:B:450:TYR:C	1:B:450:TYR:CD2	2.90	0.50
1:B:879:ASN:HB3	1:B:901:LEU:HD13	1.93	0.50
1:B:1161:ALA:O	1:B:1163:GLN:HG3	2.12	0.50
1:C:626:TRP:CE3	1:C:898:PHE:HB2	2.47	0.50
1:C:746:PHE:HB3	3:C:1901:NAP:H52N	1.92	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:D:1037:ASN:CG	1:D:1674:ILE:HG23	2.37	0.50
1:D:1108:PRO:HA	1:D:1140:VAL:O	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:997:THR:CG2	1:E:1363:MET:HE2	2.42	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
1:F:1592:ALA:O	1:F:1593:ASP:C	2.54	0.50
2:G:459:LYS:HA	2:G:485:ASP:CG	2.36	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
2:H:676:LEU:C	2:H:676:LEU:HD13	2.36	0.50
2:I:950:TRP:CE2	2:I:956:LYS:HG3	2.47	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:J:83:VAL:O	2:J:87:VAL:HG23	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:1067:LEU:O	2:J:1068:GLN:HG2	2.11	0.50
2:J:1706:MET:HE1	2:J:1735:ILE:HG23	1.93	0.50
2:K:35:PHE:CE1	2:K:105:ILE:HD13	2.46	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:K:894:GLU:CD	2:K:897:LYS:HD3	2.35	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:L:656:ARG:HG2	2:L:656:ARG:NH1	2.26	0.50
2:L:718:PRO:HG3	2:L:727:VAL:HG21	1.93	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
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:C:1338:GLY:C	1:C:1340:MET:H	2.19	0.50
1:E:684:THR:HG21	1:E:691:VAL:HG11	1.93	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1213:VAL:HG22	1:F:1300:ARG:CZ	2.42	0.50
2:G:1047:LEU:N	2:G:1047:LEU:HD12	2.26	0.50
2:H:35:PHE:CD2	2:H:37:VAL:HG22	2.47	0.50
2:H:159:PHE:HA	2:H:162:ALA:HB3	1.92	0.50
2:H:291:VAL:O	2:H:295:ILE:HB	2.12	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:1603:PRO:HD2	2:H:1606:ILE:HD11	1.92	0.50
2:I:966:VAL:O	2:I:970:PHE:HD1	1.95	0.50
2:I:1301:PHE:CB	2:I:1364:ARG:NH1	2.75	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:J:1468:ARG:NH1	2:J:1475:LEU:HD22	2.25	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:K:1410:GLY:HA3	2:K:1436:ARG:HA	1.92	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:585:MET:HG2	1:E:577:LEU:HD23	1.93	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:714:PHE:CE1	1:D:725:LEU:HD12	2.47	0.50
1:D:1338:GLY:C	1:D:1340:MET:H	2.19	0.50
1:D:1381:MET:HE1	1:D:1403:THR:HB	1.94	0.50
1:D:1599:MET:HA	1:D:1602:PHE:CD2	2.47	0.50
1:E:883:LEU:HA	1:E:888:ILE:HD12	1.93	0.50
1:E:1131:GLU:HG2	1:E:1138:TYR:CE2	2.47	0.50
1:F:1209:PHE:CE2	1:F:1301:VAL:HG21	2.45	0.50
2:G:409:LYS:HB3	2:G:428:PHE:CZ	2.46	0.50
2:G:894:GLU:CD	2:G:897:LYS:HD3	2.37	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1436:ARG:HH22	2:H:1602:LEU:CD1	2.24	0.50
2:I:605:VAL:CB	2:I:628:ILE:HG13	2.38	0.50
2:I:821:GLU:CD	2:I:1083:ILE:HG13	2.37	0.50
2:I:824:THR:HG22	2:I:828:ALA:HB3	1.93	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:J:21:LEU:HD13	2:J:36:LEU:HD21	1.93	0.50
2:J:187:ARG:NH2	2:J:230:TRP:O	2.44	0.50
2:J:270:ARG:HG3	2:J:274:GLU:CD	2.36	0.50
2:J:376:ARG:HE	2:K:1339:GLY:HA2	1.76	0.50
2:J:741:LEU:O	2:J:741:LEU:CG	2.60	0.50
2:J:912:LYS:HG2	2:J:1029:PRO:C	2.37	0.50
2:J:980:LEU:CD2	2:J:986:LEU:HD21	2.41	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:1382:MET:HG2	2:J:1427:MET:HE2	1.93	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
2:J:1969:LEU:HA	2:J:1972:ILE:HD12	1.93	0.50
2:J:1986:PRO:O	2:J:1987:VAL:HB	2.11	0.50
2:K:126:VAL:HG12	2:K:127:ALA:H	1.77	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:686:PRO:HB3	2:K:1187:PHE:CE1	2.46	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:192:THR:O	2:L:194:PRO:HD3	2.11	0.50
2:L:662:LEU:HB3	2:L:670:MET:HE3	1.92	0.50
2:L:1594:ARG:NH1	2:L:1594:ARG:CG	2.67	0.50
2:L:2005:PHE:HA	2:L:2010:LEU:HD11	1.92	0.50
1:A:889:VAL:O	1:A:893:GLN:HG3	2.12	0.50
1:A:1207:TYR:CE2	1:A:1682:LYS:HD2	2.47	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:847:THR:OG1	1:D:876:MET:HG3	2.11	0.50
1:D:1017:TYR:N	1:D:1017:TYR:CD1	2.80	0.50
1:D:1177:GLU:O	1:D:1180:ILE:HB	2.11	0.50
1:F:1094:LYS:HB3	1:F:1154:LEU:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1183:VAL:HG13	1:F:1252:GLU:OE1	2.11	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:676:LEU:C	2:G:676:LEU:HD13	2.37	0.50
2:G:917:ARG:HH11	2:G:917:ARG:HG2	1.67	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: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:H:785:SER:HB3	2:H:1090:ILE:HG23	1.94	0.50
2:H:894:GLU:CD	2:H:897:LYS:HD3	2.36	0.50
2:H:928:ASP:C	2:H:1007:LEU:HD23	2.36	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:1266:HIS:CD2	2:H:1275:ARG:CZ	2.95	0.50
2:H:1982:ALA:O	2:H:1984:PRO:HD3	2.11	0.50
2:I:22:ARG:HD2	2:I:42:HIS:HB3	1.93	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:818:THR:HG22	2:I:829:LYS:CB	2.41	0.50
2:I:846:THR:HG22	2:I:855:ILE:C	2.37	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:I:1749:PHE:CG	2:I:1758:ARG:HB3	2.47	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: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:K:731:ALA:HA	2:K:739:ILE:CD1	2.40	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:670:MET:HB2	2:L:674:ILE:HD12	1.94	0.50
2:L:1851:MET:HE1	2:L:1859:VAL:HG21	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:330:LYS:HG3	1:D:333:ARG:HH12	1.74	0.50
1:D:1254:PHE:HB2	1:D:1257:THR:OG1	2.12	0.50
1:E:430:VAL:O	1:E:434:ILE:HG13	2.12	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
2:G:317:TRP:CD1	2:G:454:ASP:CG	2.90	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: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:H:80:ILE:HG12	2:H:105:ILE:CG2	2.42	0.50
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: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
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:788:THR:HG22	2:I:1094:HIS:HE1	1.76	0.50
2:I:915:PHE:HB2	2:I:1030:PHE:CD1	2.47	0.50
2:I:980:LEU:CD2	2:I:986:LEU:HD21	2.42	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:OE1	2:I:1872:GLU:HA	2.11	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:J:928:ASP:C	2:J:1007:LEU:HD23	2.37	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:1082:GLU:HB2	1:A:1085:LEU:HD12	1.93	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:B:960:ARG:HH12	2:H:968:GLU:CD	2.19	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:C:626:TRP:CZ3	1:C:898:PHE:HB2	2.47	0.50
1:C:960:ARG:HH11	2:I:968:GLU:HB3	1.75	0.50
1:C:1042:LEU:HD12	1:C:1058:PRO:HG3	1.94	0.50
1:C:1084:GLU:H	1:C:1084:GLU:CD	2.19	0.50
1:C:1121:ARG:NH1	1:F:1153:ALA:O	2.45	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:E:985:ARG:HB3	1:E:1422:ARG:HH22	1.76	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:796:TRP:CH2	2:G:805:MET:HE2	2.47	0.50
2:G:1083:ILE:HA	2:G:1086:ILE:HG13	1.92	0.50
2:G:1946:LEU:HD22	2:G:1951:ILE:HG12	1.94	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:1047:LEU:HD12	2:H:1047:LEU:N	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: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:614:PRO:O	2:I:618:VAL:HG12	2.11	0.50
2:I:618:VAL:HG11	2:I:648:ILE:HD11	1.93	0.50
2:I:664:TYR:C	2:I:666:ASN:H	2.20	0.50
2:I:914:TRP:CD1	2:I:916:GLY:HA3	2.47	0.50
2:I:1128:PRO:HG2	2:I:1135:ALA:CB	2.42	0.50
2:J:73:VAL:HA	2:J:113:PHE:CE2	2.47	0.50
2:J:1026:LYS:HE2	2:J:1045:ASP:OD2	2.12	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:21:LEU:HA	2:K:37:VAL:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:1769:VAL:HG22	2:K:1775:ILE:CA	2.32	0.50
2:L:31:LEU:HB2	2:L:72:VAL:HG22	1.94	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
1:A:20:TYR:CE2	2:G:2062:THR:HG23	2.47	0.49
1:A:1223:GLY:CA	1:A:1276:PRO:HD2	2.42	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:536:SER:HB3	1:E:540:LYS:HB3	1.94	0.49
1:E:741:ASP:CG	1:E:793:ARG:HH11	2.19	0.49
1:E:929:ARG:O	1:E:933:ILE:HG13	2.11	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:F:329:THR:O	1:F:332:GLN:HB2	2.12	0.49
1:F:472:GLN:HA	1:F:472:GLN:HE21	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:21:LEU:HA	2:G:37:VAL:O	2.11	0.49
2:G:186:LEU:CG	2:G:256:VAL:HG22	2.42	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: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:1346:MET:HE3	2:G:1617:ARG:HH21	1.77	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:H:420:PRO:HG3	2:H:847:TYR:CD1	2.46	0.49
2:H:937:ARG:HG3	2:H:941:LEU:HD12	1.93	0.49
2:H:1099:LEU:HD12	2:H:1103:TYR:CB	2.42	0.49
2:H:1835:GLY:HA3	2:H:1839:GLY:C	2.37	0.49
2:H:2009:PHE:C	2:H:2009:PHE:HD2	2.19	0.49
2:I:857:VAL:CG1	2:I:876:TRP:NE1	2.74	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:1436:ARG:HH22	2:I:1602:LEU:CD1	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1456:LEU:HD11	2:I:1543:TYR:CE2	2.43	0.49
2:I:1946:LEU:HD22	2:I:1951:ILE:HG12	1.94	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:607:GLY:HA2	2:J:612:THR:HG21	1.94	0.49
2:J:1594:ARG:NH1	2:J:1594:ARG:CG	2.62	0.49
2:K:604:MET:CE	2:K:811:MET:HB2	2.41	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:L:77:ALA:O	2:L:139:ALA:HB1	2.12	0.49
2:L:388:ASN:C	2:L:388:ASN:ND2	2.70	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
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: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:C:415:TYR:CD2	1:C:1614:THR:HA	2.47	0.49
1:C:1079:ARG:CG	1:C:1079:ARG:NH1	2.68	0.49
1:C:1142:LEU:HD12	1:C:1142:LEU:H	1.76	0.49
1:C:1150:ILE:HG12	1:F:1148:LEU:HD21	1.94	0.49
1:D:414:TYR:CE2	1:D:418:ILE:HD11	2.47	0.49
1:E:755:GLU:HB2	1:E:757:ASP:HB2	1.94	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:F:754:ARG:N	1:F:810:ASN:HB3	2.26	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:G:1002:GLU:C	2:G:1004:SER:H	2.19	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1338:ARG:NH2	2:L:327:PRO:CD	2.73	0.49
2:J:1457:HIS:ND1	2:J:1487:THR:HG22	2.27	0.49
2:K:330:SER:H	2:L:1331:THR:HG22	1.77	0.49
2:K:481:LEU:C	2:K:483:ASP:H	2.19	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:K:2009:PHE:C	2:K:2009:PHE:CD2	2.89	0.49
2:L:317:TRP:O	2:L:321:ARG:HG2	2.13	0.49
2:L:929:MET:CE	2:L:934:VAL:HA	2.41	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:L:1610:MET:HA	2:L:1610:MET:CE	2.36	0.49
2:L:1986:PRO:O	2:L:1987:VAL:HB	2.11	0.49
1:A:849:GLY:HA3	1:A:873:GLN:HG3	1.94	0.49
1:B:1153:ALA:O	1:D:1121:ARG:NH1	2.43	0.49
1:B:1534:GLU:HG2	1:B:1625:PHE:CE1	2.47	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:C:1213:VAL:CG1	1:C:1214:HIS:N	2.74	0.49
1:C:1579:GLN:O	1:C:1583:THR:HG23	2.11	0.49
1:D:1183:VAL:HG13	1:D:1252:GLU:OE1	2.12	0.49
1:E:612:ILE:HG12	1:E:628:TYR:HD2	1.69	0.49
1:E:1547:ARG:HG2	1:E:1604:TYR:HD1	1.75	0.49
1:F:1213:VAL:HG13	1:F:1217:GLU:HB2	1.94	0.49
1:F:1565:PRO:O	1:F:1566:LYS:C	2.55	0.49
2:G:617:PHE:CE1	2:G:822:ALA:HB2	2.47	0.49
2:G:756:ASP:CA	2:G:843:TRP:HH2	2.25	0.49
2:G:1338:ARG:HH21	2:I:327:PRO:HD2	1.77	0.49
2:G:1356:ALA:CB	2:G:1397:THR:HG22	2.42	0.49
2:G:1835:GLY:HA3	2:G:1839:GLY:C	2.37	0.49
2:H:465:LEU:HB2	2:H:479:ARG:HG3	1.94	0.49
2:H:617:PHE:CE1	2:H:822:ALA:HB2	2.47	0.49
2:H:776:LEU:HG	2:H:807:PHE:CE2	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: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:I:1229:VAL:HG12	2:I:1230:LYS:N	2.27	0.49
2:J:92:GLU:HA	2:J:95:HIS:CE1	2.48	0.49
2:J:221:TYR:CE2	2:J:225:LEU:HD22	2.47	0.49
2:J:329:THR:HG21	2:K:1333:GLU:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:664:TYR:C	2:J:666:ASN:H	2.19	0.49
2:K:92:GLU:HB3	2:K:95:HIS:NE2	2.27	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:1142:ILE:HG13	2:K:1209:PRO:HG2	1.94	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:1986:PRO:O	2:K:1987:VAL:HB	2.10	0.49
2:L:44:GLN:HG3	2:L:101:VAL:CG2	2.42	0.49
2:L:208:LEU:HD12	2:L:227:ILE:CD1	2.41	0.49
1:A:15:VAL:HG11	2:G:2022:LEU:CD2	2.41	0.49
1:A:336:PHE:O	1:A:339:GLN:HB2	2.12	0.49
1:A:1148:LEU:HD21	1:E:1150:ILE:HG12	1.95	0.49
1:B:519:PHE:O	1:B:523:VAL:HG23	2.12	0.49
1:B:1150:ILE:HG12	1:D:1148:LEU:CD2	2.42	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:C:1001:GLU:O	1:C:1007:ASN:HA	2.11	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:D:1100:VAL:HG21	1:D:1150:ILE:CD1	2.43	0.49
1:E:506:ILE:HD11	1:E:926:SER:HB3	1.93	0.49
1:E:1419:LYS:O	1:E:1422:ARG:HB2	2.12	0.49
1:F:17:LEU:HD23	2:L:2043:VAL:CG2	2.42	0.49
1:F:1213:VAL:CG1	1:F:1214:HIS:N	2.74	0.49
1:F:1293:THR:HG23	1:F:1298:LYS:HB2	1.95	0.49
2:G:126:VAL:HG12	2:G:127:ALA:H	1.75	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: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
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
2:G:2021:LEU:O	2:G:2025:ILE:HG13	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:H:1057:TYR:C	2:H:1059:GLN:H	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1865:LEU:O	2:H:1869:VAL:HG22	2.12	0.49
2:I:459:LYS:HA	2:I:485:ASP:CG	2.37	0.49
2:I:685:VAL:CG1	2:I:687:ILE:HG13	2.38	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:J:376:ARG:NH2	2:K:1340:LYS:CG	2.76	0.49
2:J:511:THR:C	2:J:512:HIS:CD2	2.91	0.49
2:J:617:PHE:CD1	2:J:822:ALA:HA	2.47	0.49
2:J:820:LYS:HG3	2:J:821:GLU:HG2	1.94	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:K:512:HIS:HE1	2:K:566:VAL:HG13	1.77	0.49
2:K:580:LEU:HG	2:K:1098:LEU:HD23	1.95	0.49
2:K:1028:VAL:HG13	2:K:1030:PHE:CD2	2.47	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: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: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
2:L:1002:GLU:C	2:L:1004:SER:H	2.18	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
1:A:68:TYR:HD1	2:I:371:HIS:CD2	2.29	0.49
1:A:1075:HIS:HB3	1:A:1166:THR:HB	1.94	0.49
1:A:1546:GLY:O	1:A:1547:ARG:C	2.55	0.49
1:B:628:TYR:OH	1:B:630:LYS:HE2	2.12	0.49
1:B:876:MET:O	1:B:876:MET:HE3	2.12	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
1:C:1004:PRO:HD3	1:C:1572:TRP:CH2	2.47	0.49
1:C:1363:MET:HE3	1:C:1368:ALA:HB2	1.93	0.49
1:D:1337:PRO:HA	1:D:1340:MET:HG3	1.95	0.49
1:E:731:ASP:HB3	1:E:735:GLY:HA3	1.95	0.49
1:E:962:ASN:ND2	2:K:1006:GLN:NE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:504:GLY:HA2	1:F:929:ARG:HD2	1.94	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:571:ASP:CG	2:H:573:VAL:HG23	2.38	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:221:TYR:CE2	2:I:225:LEU:HD22	2.48	0.49
2:I:1454:MET:HE2	2:I:1454:MET:HA	1.95	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:J:416:GLN:HE22	2:J:425:LYS:H	1.61	0.49
2:J:459:LYS:HA	2:J:485:ASP:CG	2.37	0.49
2:J:609:THR:HG22	2:J:633:GLY:HA3	1.93	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:1851:MET:HE1	2:J:1859:VAL:HG21	1.94	0.49
2:K:505:THR:HG22	2:K:505:THR:O	2.11	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: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:HD12	2:L:663:ILE:N	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
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
1:A:968:PRO:HG3	1:A:1376:TYR:CE1	2.47	0.49
1:A:1084:GLU:CD	1:A:1084:GLU:H	2.19	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
1:D:890:ASN:OD1	2:I:1755:LYS:HE2	2.13	0.49
1:D:1079:ARG:CG	1:D:1079:ARG:NH1	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1386:THR:HG22	1:D:1629:GLN:HE21	1.76	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
1:E:1323:ALA:HB1	1:E:1351:PHE:CE2	2.48	0.49
2:G:80:ILE:HG12	2:G:105:ILE:CG2	2.43	0.49
2:G:1019:LEU:HA	2:G:1022:ARG:HD2	1.93	0.49
2:G:1807:GLN:HB3	2:G:1860:VAL:CG1	2.42	0.49
2:G:1821:MET:HA	2:G:1826:LEU:HD12	1.95	0.49
2:H:77:ALA:O	2:H:139:ALA:HB1	2.12	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:930:THR:CG2	2:H:933:GLU:H	2.25	0.49
2:H:1517:LEU:HD12	2:H:1521:GLU:HB2	1.93	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:I:827:GLN:H	2:I:827:GLN:CD	2.21	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: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:2009:PHE:C	2:K:2009:PHE:HD2	2.20	0.49
2:L:76:VAL:O	2:L:80:ILE:HG13	2.12	0.49
2:L:618:VAL:CG1	2:L:648:ILE:HD11	2.42	0.49
2:L:846:THR:HG22	2:L:855:ILE:C	2.37	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
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:B:1106:LEU:HD12	1:D:1104:GLN:HE22	1.78	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:962:ASN:HB3	2:I:969:ARG:HD2	1.94	0.49
1:C:1082:GLU:HB2	1:C:1085:LEU:HD12	1.95	0.49
1:C:1592:ALA:O	1:C:1593:ASP:C	2.54	0.49
1:D:20:TYR:CE2	2:J:2062:THR:HG23	2.46	0.49
1:D:536:SER:HB3	1:D:540:LYS:HD2	1.94	0.49
1:D:657:MET:HE1	1:D:666:GLY:O	2.13	0.49
1:D:914:LEU:O	1:D:917:LYS:HB3	2.13	0.49
1:D:1223:GLY:CA	1:D:1276:PRO:HD2	2.42	0.49
1:F:450:TYR:CD2	1:F:450:TYR:C	2.90	0.49
1:F:573:VAL:O	1:F:577:LEU:HG	2.13	0.49
1:F:902:ASN:C	1:F:904:GLY:H	2.20	0.49
1:F:1381:MET:HE1	1:F:1403:THR:HB	1.93	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:670:MET:HE2	2:G:674:ILE:CD1	2.39	0.49
2:G:876:TRP:C	2:G:876:TRP:HD1	2.21	0.49
2:G:962:PHE:O	2:G:966:VAL:HG23	2.12	0.49
2:G:1176:PHE:CE1	2:G:1192:LEU:HD13	2.48	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: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: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
2:I:762:LEU:HD23	2:I:805:MET:HE1	1.94	0.49
2:J:361:VAL:O	2:J:365:ILE:HG13	2.12	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: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:J:1975:GLU:O	2:J:1979:GLN:HG3	2.12	0.49
2:K:751:HIS:HB2	3:K:2102:NAP:N7N	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1947:LYS:HG2	2:K:1993:PHE:CD1	2.48	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
2:L:1946:LEU:HB3	2:L:1951:ILE:HD11	1.94	0.49
1:A:22:PHE:HE1	2:G:1867:MET:HG3	1.77	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: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:985:ARG:HB3	1:C:1422:ARG:HH22	1.78	0.49
1:C:998:GLY:HA3	1:C:1361:VAL:CG1	2.36	0.49
1:C:1154:LEU:HD21	1:F:1118:GLU:OE2	2.12	0.49
1:D:94:PRO:HD3	2:J:1559:ASN:ND2	2.28	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:E:626:TRP:CZ3	1:E:898:PHE:HB2	2.48	0.49
1:F:9:LEU:HB2	2:L:2050:ILE:HD11	1.94	0.49
1:F:330:LYS:HG3	1:F:333:ARG:HH12	1.77	0.49
1:F:687:PHE:CD2	1:F:687:PHE:C	2.91	0.49
1:F:846:TRP:HZ2	1:F:856:ASN:O	1.96	0.49
1:F:1001:GLU:O	1:F:1007:ASN:HA	2.12	0.49
1:F:1337:PRO:HA	1:F:1340:MET:CG	2.43	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: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
2:G:1890:ARG:NH2	2:G:1996:ILE:HD11	2.17	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:460:ILE:O	2:I:486:ILE:HB	2.13	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:J:420:PRO:HG3	2:J:847:TYR:CD1	2.48	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:2009:PHE:HD2	2:J:2009:PHE:C	2.20	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:K:1404:VAL:HA	2:K:1412:MET:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1555:VAL:O	2:K:1555:VAL:HG12	2.13	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
2:L:792:LEU:HD23	2:L:1094:HIS:ND1	2.28	0.49
2:L:796:TRP:CH2	2:L:805:MET:HE2	2.47	0.49
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:A:503:ARG:HA	1:A:933:ILE:CD1	2.42	0.49
1:A:1338:GLY:C	1:A:1340:MET:H	2.19	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:C:956:ILE:HA	2:I:977:PRO:HA	1.94	0.49
1:D:746:PHE:CD1	1:D:800:PRO:HG3	2.48	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:E:9:LEU:HB2	2:K:2050:ILE:HD11	1.95	0.49
1:E:956:ILE:HG23	2:K:976:GLN:O	2.13	0.49
1:F:519:PHE:O	1:F:523:VAL:HG23	2.12	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:1546:GLY:O	1:F:1547:ARG:C	2.56	0.49
2:G:411:PRO:HD2	2:G:414:LEU:CD1	2.42	0.49
2:G:825:SER:CB	2:G:1053:ILE:HG13	2.43	0.49
2:G:980:LEU:HD22	2:G:986:LEU:HD21	1.94	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: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: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:I:571:ASP:OD1	2:I:573:VAL:HG23	2.13	0.49
2:I:611:THR:HG22	2:I:1051:GLU:OE2	2.13	0.49
2:I:1311:GLY:HA3	2:I:1397:THR:HB	1.94	0.49
2:I:1359:LYS:O	2:I:1362:PHE:HD1	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1738:VAL:HA	2:I:1800:LEU:HD13	1.94	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: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:O	2:J:915:PHE:CD2	2.65	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: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: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
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
2:L:1725:HIS:CD2	2:L:1854:GLU:CB	2.96	0.49
2:L:1745:LEU:HB3	2:L:1799:LEU:CD2	2.43	0.49
1:A:445:LEU:O	1:A:448:MET:HB2	2.13	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:B:487:TYR:CE2	1:B:881:LEU:HD13	2.48	0.49
1:B:902:ASN:C	1:B:904:GLY:H	2.21	0.49
1:B:1037:ASN:CG	1:B:1674:ILE:HG23	2.38	0.49
1:B:1229:THR:HB	1:B:1311:GLN:HG3	1.93	0.49
1:B:1293:THR:HG23	1:B:1298:LYS:HB2	1.93	0.49
1:C:441:ASN:HB2	1:C:444:LEU:H	1.78	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:D:524:LYS:O	1:D:525:GLN:C	2.55	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: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:E:1177:GLU:O	1:E:1180:ILE:HB	2.12	0.49
1:F:1692:GLN:HG3	1:F:1696:PHE:CE2	2.48	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:G:846:THR:HG22	2:G:855:ILE:C	2.38	0.49
2:G:1946:LEU:HB3	2:G:1951:ILE:HD11	1.95	0.49
2:H:43:PHE:CD2	2:I:22:ARG:CD	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:43:PHE:CE2	2:I:22:ARG:CG	2.96	0.49
2:H:315:LEU:HA	2:H:318:ILE:HD12	1.94	0.49
2:H:502:GLU:O	2:H:506:VAL:HG23	2.13	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:92:GLU:HA	2:I:95:HIS:CE1	2.48	0.49
2:I:668:ARG:HH21	2:I:1023:ARG:HH12	1.60	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:1328:VAL:HA	2:I:1611:TYR:HE1	1.78	0.49
2:I:1380:TYR:HD2	2:I:1429:VAL:HG22	1.78	0.49
2:I:1643:VAL:HG13	2:I:1649:ILE:HD11	1.94	0.49
2:J:207:LEU:HD22	2:J:309:LYS:HG3	1.95	0.49
2:J:291:VAL:O	2:J:295:ILE:HB	2.13	0.49
2:J:611:THR:HA	2:J:1051:GLU:OE2	2.13	0.49
2:J:1157:VAL:HG22	2:J:1198:PRO:HD2	1.95	0.49
2:J:1380:TYR:HD2	2:J:1429:VAL:HG22	1.77	0.49
2:J:1421:ARG:HD2	2:J:1426:VAL:CG2	2.43	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: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:788:THR:HG22	2:L:1094:HIS:HE1	1.77	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
2:L:1019:LEU:HA	2:L:1022:ARG:HD2	1.95	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
1:A:756:ILE:HA	1:A:759:ILE:CD1	2.41	0.48
1:A:1307:PHE:CB	1:A:1357:CYS:HB3	2.43	0.48
1:B:421:ARG:NH2	1:B:1613:LYS:HB3	2.28	0.48
1:C:414:TYR:C	1:C:414:TYR:CD2	2.91	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:F:1075:HIS:HB3	1:F:1166:THR:HB	1.94	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: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:H:289:ILE:HG12	2:H:493:MET:CE	2.35	0.48
2:H:931:TYR:O	2:H:935:VAL:HG12	2.13	0.48
2:H:1610:MET:HA	2:H:1610:MET:CE	2.37	0.48
2:I:978:SER:O	2:I:981:GLN:HG2	2.12	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: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:796:TRP:CH2	2:J:805:MET:HE2	2.47	0.48
2:J:978:SER:O	2:J:981:GLN:HG2	2.13	0.48
2:J:1722:ALA:HB1	2:J:1812:LEU:HD21	1.95	0.48
2:J:1769:VAL:HG13	2:J:1774:SER:C	2.38	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:K:1610:MET:HA	2:K:1610:MET:CE	2.36	0.48
2:K:1932:ASP:O	2:K:1936:LEU:HD23	2.13	0.48
2:K:1982:ALA:C	2:K:1984:PRO:HD3	2.37	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
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
1:A:498:THR:HG22	1:A:508:TYR:CD1	2.49	0.48
1:A:553:ARG:C	1:A:555:GLN:H	2.21	0.48
1:A:801:LEU:HD13	1:A:822:GLU:HG2	1.94	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:B:506:ILE:HD11	1:B:926:SER:HB3	1.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1414:PRO:HG2	1:D:1473:HIS:NE2	2.28	0.48
1:C:533:SER:HA	1:C:907:PHE:CZ	2.48	0.48
1:C:801:LEU:HD13	1:C:822:GLU:HG2	1.95	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
1:E:1330:GLU:HG2	1:E:1333:ARG:HH11	1.76	0.48
1:F:547:SER:HA	1:F:550:LYS:HB2	1.95	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: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:H:664:TYR:C	2:H:666:ASN:H	2.22	0.48
2:H:796:TRP:CH2	2:H:805:MET:HE2	2.48	0.48
2:H:928:ASP:O	2:H:1007:LEU:HD23	2.13	0.48
2:H:1706:MET:HE1	2:H:1735:ILE:HG23	1.93	0.48
2:H:1753:ARG:HG3	2:H:1756:ILE:HD11	1.95	0.48
2:I:465:LEU:HB2	2:I:479:ARG:HG3	1.95	0.48
2:I:1195:LEU:HD23	2:I:1595:VAL:HG12	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: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: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:J:2009:PHE:C	2:J:2009:PHE:CD2	2.90	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:K:876:TRP:C	2:K:876:TRP:HD1	2.16	0.48
2:K:1141:LYS:HE2	2:K:1143:SER:HB2	1.95	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:357:THR:HG22	2:L:359:SER:H	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:459:LYS:HA	2:L:485:ASP:CG	2.38	0.48
2:L:818:THR:HG22	2:L:829:LYS:CB	2.37	0.48
2:L:1515:LEU:HB3	2:L:1525:VAL:CG2	2.44	0.48
2:L:1721:ARG:NH1	2:L:1854:GLU:OE2	2.46	0.48
2:L:1738:VAL:HA	2:L:1800:LEU:HD13	1.95	0.48
1:A:997:THR:HG21	1:A:1363:MET:HE2	1.94	0.48
1:C:1001:GLU:HG2	1:C:1008:ALA:HB2	1.94	0.48
1:D:408:GLN:HE22	1:D:1610:ARG:H	1.61	0.48
1:D:553:ARG:C	1:D:555:GLN:H	2.20	0.48
1:E:553:ARG:C	1:E:555:GLN:H	2.21	0.48
1:E:673:LEU:HD21	1:E:884:MET:CE	2.43	0.48
1:E:746:PHE:CD2	3:E:1901:NAP:H4D	2.48	0.48
1:E:759:ILE:HD12	1:E:759:ILE:N	2.29	0.48
1:E:1599:MET:HA	1:E:1602:PHE:CD2	2.48	0.48
1:F:533:SER:O	1:F:533:SER:OG	2.22	0.48
1:F:1113:LYS:O	1:F:1117:GLU:HG3	2.12	0.48
2:G:903:ILE:HD11	2:G:914:TRP:CZ2	2.47	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: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:73:VAL:HA	2:I:113:PHE:CE2	2.49	0.48
2:I:676:LEU:HD13	2:I:676:LEU:C	2.38	0.48
2:I:1074:LYS:HE3	2:I:1075:TYR:CE1	2.47	0.48
2:I:1587:TYR:O	2:I:1588:ASN:C	2.56	0.48
2:I:2008:THR:HG22	2:I:2011:ARG:HE	1.78	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:J:1002:GLU:C	2:J:1004:SER:H	2.19	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: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:K:1236:LEU:HD21	2:K:1239:ASP:O	2.12	0.48
2:K:1519:THR:O	2:K:1520:LYS:HB2	2.13	0.48
2:L:202:THR:O	2:L:206:GLU:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:582:LYS:HG3	2:L:1110:VAL:CG1	2.43	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
2:L:1026:LYS:HE2	2:L:1045:ASP:OD2	2.14	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
1:A:414:TYR:C	1:A:414:TYR:CD2	2.91	0.48
1:A:577:LEU:HB2	1:A:579:MET:HG2	1.96	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:1381:MET:HE1	1:A:1403:THR:HB	1.94	0.48
1:A:1703:VAL:HG22	1:A:1712:LYS:C	2.37	0.48
1:B:427:ARG:HG3	1:B:492:ILE:HG12	1.95	0.48
1:C:782:LYS:NZ	1:C:786:LYS:HD2	2.28	0.48
1:C:1063:ASP:O	1:C:1064:VAL:C	2.56	0.48
1:D:56:MET:HE2	2:J:1926:GLN:OE1	2.13	0.48
1:D:914:LEU:CD1	1:D:918:LEU:HD12	2.44	0.48
1:D:1280:CYS:HA	1:D:1566:LYS:O	2.13	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: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:F:1514:ILE:HD13	1:F:1545:LEU:HB3	1.94	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: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: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:H:1872:GLU:OE1	2:H:1872:GLU:HA	2.14	0.48
2:I:35:PHE:CE1	2:I:105:ILE:HD13	2.48	0.48
2:I:472:THR:HB	2:I:493:MET:HB3	1.95	0.48
2:I:663:ILE:H	2:I:663:ILE:CD1	2.10	0.48
2:I:751:HIS:HB2	3:I:2102:NAP:N7N	2.28	0.48
2:I:765:TYR:CD2	2:I:805:MET:HG2	2.49	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:1759:GLN:HE22	2:I:1762:MET:HE2	1.79	0.48
2:I:1894:THR:HB	2:I:1954:GLN:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1192:LEU:HD22	2:J:1196:PHE:HE1	1.79	0.48
2:J:1336:VAL:O	2:J:1336:VAL:HG12	2.13	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:K:315:LEU:HA	2:K:318:ILE:HD12	1.94	0.48
2:K:318:ILE:HA	2:K:451:ILE:HD13	1.95	0.48
2:K:326:TYR:HA	2:L:1338:ARG:HH21	1.78	0.48
2:K:353:ILE:O	2:K:353:ILE:HG22	2.12	0.48
2:K:416:GLN:C	2:K:418:ARG:H	2.22	0.48
2:K:1499:LYS:CG	2:K:1500:ASN:H	2.25	0.48
2:L:379:GLY:O	2:L:391:VAL:HG13	2.14	0.48
2:L:506:VAL:O	2:L:506:VAL:CG1	2.60	0.48
2:L:595:SER:HB3	2:L:602:PRO:CD	2.43	0.48
2:L:1194:ARG:HH21	2:L:1601:ASN:CG	2.21	0.48
2:L:1753:ARG:HG3	2:L:1756:ILE:HD11	1.95	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:506:ILE:HD13	1:B:922:ILE:HG22	1.95	0.48
1:B:1183:VAL:HG13	1:B:1252:GLU:OE1	2.13	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:C:1640:LYS:HG3	1:C:1641:TYR:N	2.28	0.48
1:D:628:TYR:HD1	1:D:629:SER:N	2.12	0.48
1:D:1084:GLU:CD	1:D:1084:GLU:H	2.22	0.48
1:E:843:VAL:O	1:E:843:VAL:HG22	2.13	0.48
1:E:902:ASN:C	1:E:904:GLY:H	2.21	0.48
1:E:1495:ARG:HG2	1:E:1495:ARG:HH11	1.77	0.48
1:F:20:TYR:CE1	2:L:2018:ARG:NH2	2.81	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
2:G:73:VAL:HA	2:G:113:PHE:CE2	2.49	0.48
2:G:192:THR:O	2:G:194:PRO:HD3	2.13	0.48
2:G:690:LEU:HD22	2:G:691:THR:H	1.78	0.48
2:G:825:SER:HB2	2:G:1053:ILE:HG13	1.95	0.48
2:G:917:ARG:HB2	2:G:937:ARG:HD3	1.94	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:416:GLN:HE22	2:H:425:LYS:H	1.60	0.48
2:H:663:ILE:HD12	2:H:663:ILE:N	2.27	0.48
2:I:202:THR:HA	2:I:228:LEU:HD11	1.95	0.48
2:I:604:MET:HE2	2:I:604:MET:HB3	1.73	0.48
2:I:621:THR:OG1	2:I:1083:ILE:HD13	2.14	0.48
2:I:868:LEU:O	2:I:870:THR:HG23	2.14	0.48
2:I:911:GLN:NE2	2:I:1065:CYS:H	2.11	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:OE1	2:I:1443:GLU:HA	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:J:126:VAL:HG12	2:J:127:ALA:H	1.76	0.48
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: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
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:K:1266:HIS:CD2	2:K:1275:ARG:CZ	2.97	0.48
2:L:260:HIS:CE1	2:L:543:GLY:HA2	2.49	0.48
2:L:353:ILE:HG22	2:L:353:ILE:O	2.12	0.48
2:L:617:PHE:CD1	2:L:822:ALA:HA	2.48	0.48
2:L:676:LEU:HD13	2:L:676:LEU:C	2.39	0.48
2:L:914:TRP:CD1	2:L:916:GLY:HA3	2.49	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
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:632:LEU:O	1:B:633:THR:C	2.56	0.48
1:B:1063:ASP:O	1:B:1064:VAL:C	2.55	0.48
1:C:30:GLU:HB2	2:I:2045:ALA:CB	2.42	0.48
1:C:500:ILE:HD11	1:C:922:ILE:HG23	1.95	0.48
1:C:1075:HIS:HB3	1:C:1166:THR:HB	1.93	0.48
1:D:846:TRP:HZ2	1:D:856:ASN:O	1.96	0.48
1:D:1463:GLU:O	1:D:1467:LEU:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:1371:MET:O	1:E:1661:ARG:NH1	2.46	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:481:LEU:C	2:G:483:ASP:H	2.22	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:H:1851:MET:HE1	2:H:1859:VAL:HG21	1.94	0.48
2:I:48:LEU:HD13	2:I:101:VAL:HG11	1.96	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
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:481:LEU:C	2:J:483:ASP:H	2.22	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:942:MET:O	2:K:951:ILE:HG13	2.13	0.48
2:K:1350:ILE:HG22	2:K:1429:VAL:HG11	1.96	0.48
2:L:481:LEU:C	2:L:483:ASP:H	2.22	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: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:620:LYS:HE3	1:B:626:TRP:CZ2	2.49	0.48
1:B:1094:LYS:HE3	1:B:1316:TYR:CG	2.48	0.48
1:C:23:ALA:HA	2:I:2007:SER:O	2.14	0.48
1:C:959:PRO:CG	2:I:974:GLU:HG3	2.42	0.48
1:D:997:THR:CG2	1:D:1361:VAL:HG22	2.44	0.48
1:D:1293:THR:HG23	1:D:1298:LYS:HB2	1.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1640:LYS:HD2	1:E:1641:TYR:CE1	2.49	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: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: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: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
2:I:1411:LYS:O	2:I:1434:LEU:HD12	2.13	0.48
2:I:2044:THR:HG22	2:I:2046:LYS:H	1.78	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: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:K:613:VAL:HG12	2:K:614:PRO:HD3	1.94	0.48
2:K:613:VAL:N	2:K:614:PRO:CD	2.76	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:K:1299:VAL:HG13	2:K:1301:PHE:CE1	2.47	0.48
2:L:1402:ASN:ND2	2:L:1416:CYS:HB2	2.29	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:A:1703:VAL:CG1	1:A:1711:LEU:HB3	2.35	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: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:D:1050:TRP:HA	1:D:1050:TRP:CE3	2.48	0.48
1:E:1702:ARG:HG2	1:E:1702:ARG:NH1	2.17	0.48
1:F:414:TYR:C	1:F:414:TYR:CD2	2.91	0.48
2:G:609:THR:CB	2:G:610:PRO:HD3	2.44	0.48
2:G:1497:ARG:O	2:G:1505:SER:HB3	2.14	0.48
2:G:1769:VAL:HG13	2:G:1774:SER:C	2.38	0.48
2:G:1910:VAL:HG11	2:G:1973:ILE:HG21	1.94	0.48
2:H:391:VAL:HG12	2:H:398:LEU:HD21	1.95	0.48
2:H:1299:VAL:HG13	2:H:1301:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1335:PHE:CZ	2:H:1629:ILE:HD13	2.49	0.48
2:I:192:THR:O	2:I:194:PRO:HD3	2.14	0.48
2:I:317:TRP:CD1	2:I:454:ASP:CG	2.92	0.48
2:I:501:TRP:NE1	2:I:528:THR:CG2	2.75	0.48
2:I:670:MET:HE2	2:I:674:ILE:CD1	2.41	0.48
2:I:1200:ARG:H	2:I:1200:ARG:CD	2.14	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:HD12	2:J:663:ILE:N	2.25	0.48
2:J:716:PHE:CD1	2:J:727:VAL:HG13	2.48	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:O	2:J:1366:ILE:HG22	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:K:202:THR:HA	2:K:228:LEU:HD11	1.96	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:K:1331:THR:O	2:K:1331:THR:HG22	2.13	0.48
2:K:1366:ILE:HG22	2:K:1366:ILE:O	2.13	0.48
2:K:2039:TYR:O	2:K:2041:PRO:HD3	2.13	0.48
2:L:285:HIS:CD2	2:L:501:TRP:CE3	3.02	0.48
2:L:664:TYR:C	2:L:666:ASN:H	2.21	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:562:SER:CB	1:F:555:GLN:OE1	2.62	0.48
1:A:754:ARG:N	1:A:810:ASN:HB3	2.28	0.48
1:A:1102:ILE:HD11	1:A:1148:LEU:HG	1.95	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:B:1280:CYS:HA	1:B:1566:LYS:O	2.13	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:C:1236:TYR:O	1:F:1237:LYS:HB2	2.14	0.48
1:D:741:ASP:CG	1:D:793:ARG:HH11	2.21	0.48
1:D:827:ARG:NH1	1:D:831:GLU:OE2	2.46	0.48
1:D:859:VAL:HG12	1:D:859:VAL:O	2.13	0.48
1:D:967:PHE:CZ	1:D:1662:GLN:HA	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H:1644:LEU:HB3	2:H:1645:PRO:CD	2.44	0.48
2:H:1807:GLN:HB3	2:H:1860:VAL:CG1	2.44	0.48
2:I:601:PRO:HA	2:I:602:PRO:HD3	1.76	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:1982:ALA:C	2:I:1984:PRO:HD3	2.39	0.48
2:J:80:ILE:HG12	2:J:105:ILE:CG2	2.44	0.48
2:J:505:THR:O	2:J:505:THR:HG22	2.14	0.48
2:J:1982:ALA:C	2:J:1984:PRO:HD3	2.39	0.48
2:K:609:THR:HA	2:K:631:ALA:HB1	1.94	0.48
2:K:930:THR:CG2	2:K:933:GLU:H	2.24	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:L:73:VAL:HA	2:L:113:PHE:CE2	2.48	0.48
2:L:281:GLY:HA3	2:L:470:TYR:HE1	1.79	0.48
2:L:604:MET:HE2	2:L:604:MET:HB3	1.73	0.48
2:L:929:MET:HE2	2:L:934:VAL:CG2	2.39	0.48
2:L:1517:LEU:HD12	2:L:1521:GLU:HB2	1.95	0.48
2:L:1551:ILE:CG2	2:L:1552:GLU:N	2.76	0.48
1:C:759:ILE:HG12	1:C:813:LEU:HD23	1.96	0.48
1:C:902:ASN:C	1:C:904:GLY:H	2.21	0.48
1:C:967:PHE:CD2	1:C:1662:GLN:HB2	2.49	0.48
1:D:449:GLN:O	1:D:450:TYR:C	2.57	0.48
1:D:684:THR:CG2	1:D:686:ARG:H	2.19	0.48
1:D:1096:LEU:O	1:D:1097:LEU:HD23	2.14	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:15:VAL:HG11	2:L:2022:LEU:CD2	2.42	0.48
1:F:983:GLN:O	1:F:987:MET:HG3	2.13	0.48
1:F:1055:THR:OG1	1:F:1057:GLU:HG2	2.14	0.48
1:F:1078:ILE:CG2	1:F:1352:MET:HE2	2.44	0.48
1:F:1323:ALA:HB1	1:F:1351:PHE:CE2	2.49	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:G:664:TYR:C	2:G:666:ASN:H	2.22	0.48
2:G:1200:ARG:HD3	2:G:1200:ARG:N	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:300:THR:H	2:H:303:GLU:HB3	1.77	0.48
2:H:912:LYS:HG2	2:H:1029:PRO:C	2.38	0.48
2:H:917:ARG:HB2	2:H:937:ARG:HD3	1.94	0.48
2:H:1044:LYS:HE2	3:H:2102:NAP:H4B	1.96	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:1382:MET:HE2	2:H:1382:MET:HB3	1.76	0.48
2:H:1871:VAL:HG21	2:H:2003:VAL:HA	1.94	0.48
2:H:1894:THR:HB	2:H:1954:GLN:OE1	2.14	0.48
2:I:855:ILE:HB	2:I:869:ALA:HB2	1.95	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: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:K:903:ILE:HD11	2:K:914:TRP:CZ2	2.48	0.48
2:K:1234:ILE:HG22	2:K:1242:ILE:HG22	1.95	0.48
2:L:35:PHE:CE1	2:L:105:ILE:HD13	2.49	0.48
2:L:290:VAL:CG1	2:L:314:LEU:HD23	2.42	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
2:L:938:MET:O	2:L:942:MET:HG3	2.14	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
2:L:1982:ALA:C	2:L:1984:PRO:HD3	2.38	0.48
2:L:2039:TYR:C	2:L:2039:TYR:CD2	2.91	0.48
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:A:1419:LYS:O	1:A:1422:ARG:HB2	2.15	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:740:LEU:HD12	1:D:781:ILE:HD13	1.96	0.47
1:D:754:ARG:N	1:D:810:ASN:HB3	2.29	0.47
1:E:544:ASP:O	1:E:548:VAL:HG23	2.14	0.47
1:E:1278:GLY:CA	1:E:1630:LYS:HE2	2.41	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
1:F:1367:LEU:HD22	1:F:1371:MET:HG3	1.96	0.47
2:G:48:LEU:HD13	2:G:101:VAL:HG11	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:196:PHE:CD2	2:G:196:PHE:N	2.82	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:G:1317:ASN:HB3	2:G:1320:ALA:CB	2.44	0.47
2:G:1886:VAL:HG22	2:G:1995:THR:HG22	1.95	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: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: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:796:TRP:CH2	2:I:805:MET:HE2	2.49	0.47
2:I:914:TRP:CH2	2:I:1033:ALA:HA	2.48	0.47
2:I:1402:ASN:ND2	2:I:1416:CYS:HB2	2.29	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:J:2039:TYR:C	2:J:2039:TYR:CD2	2.91	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:705:TYR:HA	2:K:709:LEU:HD21	1.96	0.47
2:K:708:THR:HB	2:K:709:LEU:HD23	1.96	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:L:196:PHE:N	2:L:196:PHE:CD2	2.82	0.47
2:L:775:VAL:HG12	2:L:777:VAL:HG23	1.95	0.47
2:L:1047:LEU:N	2:L:1047:LEU:HD12	2.29	0.47
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
1:A:36:LEU:HD21	1:A:44:ILE:HD11	1.95	0.47
1:A:441:ASN:HB2	1:A:444:LEU:H	1.79	0.47
1:A:1280:CYS:HB2	1:A:1626:GLY:HA2	1.95	0.47
1:B:414:TYR:C	1:B:414:TYR:CD2	2.93	0.47
1:B:535:TYR:CD1	1:B:610:GLU:HB3	2.49	0.47
1:B:546:ARG:NH1	1:B:631:LYS:NZ	2.62	0.47
1:B:687:PHE:C	1:B:687:PHE:CD2	2.92	0.47
1:B:746:PHE:CD1	1:B:800:PRO:HG3	2.49	0.47
1:B:1071:TYR:C	1:B:1071:TYR:CD2	2.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:999:LEU:H	1:C:1200:SER:HG	1.61	0.47
1:C:1443:LEU:HD22	1:C:1474:ILE:HD11	1.95	0.47
1:D:414:TYR:C	1:D:414:TYR:CD2	2.92	0.47
1:D:1131:GLU:HG2	1:D:1138:TYR:CE2	2.49	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:193:TYR:HD1	2:G:263:ILE:HD13	1.77	0.47
2:G:441:SER:C	2:G:443:TYR:H	2.22	0.47
2:G:501:TRP:CD1	2:G:501:TRP:C	2.89	0.47
2:G:966:VAL:O	2:G:970:PHE:HD1	1.96	0.47
2:G:1515:LEU:HB3	2:G:1525:VAL:CG2	2.43	0.47
2:H:788:THR:CG2	2:H:1094:HIS:CE1	2.97	0.47
2:H:835:ALA:HB3	2:H:1073:ALA:HB1	1.95	0.47
2:H:980:LEU:CD2	2:H:986:LEU:HD21	2.44	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: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: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: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
2:J:1171:TRP:CH2	2:J:1236:LEU:HB2	2.49	0.47
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:K:796:TRP:CH2	2:K:805:MET:HE2	2.48	0.47
2:L:92:GLU:HA	2:L:95:HIS:CE1	2.48	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: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
1:A:56:MET:HE2	2:G:1926:GLN:OE1	2.14	0.47
1:A:452:ILE:CD1	1:A:467:LYS:HA	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:502:ALA:HA	1:A:929:ARG:HD3	1.95	0.47
1:A:1499:ARG:CD	1:E:1476:ARG:HH12	2.20	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: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:C:1161:ALA:O	1:C:1163:GLN:HG3	2.14	0.47
1:D:42:GLU:HG3	2:J:1689:VAL:HG23	1.95	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:F:560:LYS:O	1:F:564:LEU:HB2	2.15	0.47
1:F:1102:ILE:HD11	1:F:1148:LEU:HG	1.95	0.47
2:G:601:PRO:HB2	2:G:626:TYR:CE2	2.50	0.47
2:G:1200:ARG:H	2:G:1200:ARG:CD	2.14	0.47
2:H:290:VAL:HG11	2:H:315:LEU:CD1	2.44	0.47
2:H:511:THR:C	2:H:512:HIS:CD2	2.92	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:H:1382:MET:HG2	2:H:1427:MET:HE2	1.96	0.47
2:H:1722:ALA:HB1	2:H:1812:LEU:HD21	1.95	0.47
2:I:388:ASN:C	2:I:388:ASN:ND2	2.72	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
2:I:1103:TYR:C	2:I:1104:ASP:OD1	2.57	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:J:153:PRO:HB3	2:J:270:ARG:NH1	2.29	0.47
2:J:202:THR:HA	2:J:228:LEU:HD11	1.96	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:J:1346:MET:HE3	2:J:1617:ARG:HH21	1.74	0.47
2:J:1519:THR:O	2:J:1520:LYS:HB2	2.14	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:655:GLY:HA3	2:K:1272:ALA:CB	2.44	0.47
2:K:818:THR:HG22	2:K:829:LYS:CB	2.36	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:1305:LEU:HD23	2:K:1366:ILE:HD11	1.96	0.47
2:K:1835:GLY:HA3	2:K:1839:GLY:C	2.40	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
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
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: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:B:1599:MET:HA	1:B:1602:PHE:CD2	2.49	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:C:1108:PRO:HA	1:C:1140:VAL:O	2.15	0.47
1:D:1004:PRO:HD3	1:D:1572:TRP:HH2	1.79	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:E:1157:ASP:O	1:E:1159:LEU:HD12	2.14	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
1:F:1063:ASP:O	1:F:1064:VAL:C	2.56	0.47
1:F:1307:PHE:HB3	1:F:1357:CYS:HB3	1.97	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: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:H:43:PHE:CG	2:I:22:ARG:CZ	2.96	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:I:281:GLY:HA3	2:I:470:TYR:HE1	1.80	0.47
2:I:290:VAL:HG11	2:I:315:LEU:CD1	2.44	0.47
2:I:776:LEU:HG	2:I:807:PHE:CD2	2.49	0.47
2:I:798:THR:HA	2:I:802:TYR:O	2.14	0.47
2:I:894:GLU:CD	2:I:897:LYS:HD3	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1346:MET:CE	2:J:1617:ARG:NH2	2.75	0.47
2:J:1887:ASN:OD1	2:J:1889:SER:HB2	2.13	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: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:L:686:PRO:HB3	2:L:1187:PHE:HE1	1.76	0.47
2:L:764:MET:O	2:L:765:TYR:C	2.57	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
1:A:408:GLN:CG	1:A:1610:ARG:NH1	2.78	0.47
1:A:526:MET:HE3	1:A:614:PHE:CB	2.45	0.47
1:A:565:GLN:O	1:A:569:LEU:HG	2.13	0.47
1:B:768:ARG:HA	1:B:772:THR:OG1	2.14	0.47
1:B:1042:LEU:HD12	1:B:1058:PRO:HG3	1.94	0.47
1:B:1496:ARG:NH2	1:D:1297:GLY:HA2	2.30	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: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:D:767:HIS:NE2	1:D:771:LEU:HD22	2.29	0.47
1:E:626:TRP:CE3	1:E:898:PHE:HB2	2.49	0.47
1:E:767:HIS:CB	1:E:813:LEU:HD12	2.42	0.47
1:F:880:LEU:C	1:F:882:GLY:N	2.70	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: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:1656:VAL:O	2:H:1656:VAL:HG22	2.14	0.47
2:H:1805:PHE:O	2:H:1808:PRO:HD2	2.13	0.47
2:I:300:THR:H	2:I:303:GLU:HB3	1.78	0.47
2:I:928:ASP:C	2:I:1007:LEU:HD23	2.40	0.47
2:I:1369:ASP:OD1	2:I:1371:LEU:HB3	2.15	0.47
2:J:76:VAL:HG11	2:J:109:PHE:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:609:THR:HA	2:J:631:ALA:HB1	1.96	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:388:ASN:HD22	2:K:389:PHE:N	2.13	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:L:747:ARG:NH2	2:L:757:PHE:CE1	2.83	0.47
2:L:1324:PHE:CA	2:L:1583:VAL:HG11	2.44	0.47
2:L:1985:GLN:C	2:L:1987:VAL:N	2.69	0.47
1:A:413:MET:O	1:A:416:ASP:HB2	2.14	0.47
1:A:741:ASP:CG	1:A:793:ARG:HH11	2.23	0.47
1:A:852:LEU:O	1:A:852:LEU:HD23	2.15	0.47
1:A:868:VAL:HG11	1:A:908:ILE:CD1	2.37	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:B:849:GLY:HA3	1:B:873:GLN:HG3	1.97	0.47
1:B:998:GLY:CA	1:B:1361:VAL:HG13	2.31	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:C:744:VAL:HG12	1:C:746:PHE:CD1	2.50	0.47
1:C:911:LEU:O	1:C:911:LEU:HD12	2.14	0.47
1:C:984:LEU:HD21	1:C:1510:TRP:O	2.15	0.47
1:D:623:PHE:O	1:D:624:GLY:C	2.57	0.47
1:D:904:GLY:C	1:D:906:GLN:H	2.23	0.47
1:E:407:ARG:NH2	1:E:1603:ASP:O	2.47	0.47
1:E:1404:ALA:HA	1:E:1501:ALA:HB1	1.96	0.47
1:F:6:GLU:HA	2:L:2050:ILE:CD1	2.44	0.47
1:F:962:ASN:HB3	2:L:969:ARG:CD	2.42	0.47
2:G:117:ASN:OD1	2:G:561:ARG:HB2	2.15	0.47
2:G:781:GLY:CA	2:G:1071:VAL:HG13	2.44	0.47
2:G:1332:GLY:C	2:G:1334:ALA:H	2.21	0.47
2:G:2009:PHE:HD2	2:G:2009:PHE:C	2.22	0.47
2:H:604:MET:CE	2:H:811:MET:HB2	2.45	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:57:PRO:HB2	2:I:65:GLN:HE22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:502:GLU:O	2:I:506:VAL:HG23	2.14	0.47
2:J:35:PHE:CD2	2:J:37:VAL:HG22	2.48	0.47
2:J:317:TRP:CD1	2:J:454:ASP:CG	2.92	0.47
2:J:318:ILE:HA	2:J:451:ILE:HD13	1.97	0.47
2:J:1331:THR:HG22	2:J:1331:THR:O	2.15	0.47
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:K:285:HIS:CD2	2:K:501:TRP:CE3	3.02	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:520:GLY:C	2:K:522:SER:H	2.21	0.47
2:K:1708:LEU:O	2:K:1708:LEU:HD22	2.14	0.47
2:K:1886:VAL:HG22	2:K:1995:THR:HG22	1.95	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
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:1382:MET:HG2	2:L:1427:MET:HE2	1.96	0.47
2:L:1555:VAL:HG12	2:L:1555:VAL:O	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
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:A:1488:SER:HB3	1:E:1484:GLU:OE1	2.14	0.47
1:A:1599:MET:HA	1:A:1602:PHE:CD2	2.48	0.47
1:B:967:PHE:CD2	1:B:1662:GLN:HB2	2.50	0.47
1:B:1106:LEU:HD12	1:D:1104:GLN:NE2	2.29	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:C:1184:ASP:OD1	1:C:1185:PRO:HD2	2.14	0.47
1:D:29:ILE:HD13	2:J:1923:ALA:HA	1.96	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:D:655:ALA:CB	1:D:742:TYR:HB2	2.45	0.47
1:D:1075:HIS:HB3	1:D:1166:THR:HB	1.96	0.47
1:E:50:SER:HB2	1:E:52:THR:HG23	1.97	0.47
1:E:657:MET:HE1	1:E:666:GLY:O	2.15	0.47
1:E:1186:VAL:HG12	1:E:1187:THR:N	2.30	0.47
1:E:1199:LEU:HD23	1:E:1199:LEU:O	2.14	0.47
1:E:1647:ASP:C	1:E:1649:ALA:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1071:TYR:C	1:F:1071:TYR:CD2	2.92	0.47
1:F:1148:LEU:HD23	1:F:1148:LEU:HA	1.62	0.47
1:F:1640:LYS:HG3	1:F:1641:TYR:N	2.30	0.47
2:G:168:LYS:H	2:G:511:THR:HB	1.80	0.47
2:G:271:GLU:H	2:G:274:GLU:HG3	1.80	0.47
2:G:276:LEU:HD21	2:G:296:ALA:HA	1.96	0.47
2:G:381:SER:OG	2:G:392:THR:HG23	2.14	0.47
2:G:472:THR:HG23	2:G:499:VAL:HA	1.97	0.47
2:G:685:VAL:CG2	2:G:1186:ARG:HH12	2.19	0.47
2:G:932:ALA:O	2:G:935:VAL:HG13	2.14	0.47
2:G:1028:VAL:HA	2:G:1029:PRO:HD3	1.74	0.47
2:G:1142:ILE:HG13	2:G:1209:PRO:HG2	1.97	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: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:2057:GLU:HA	2:G:2060:ARG:HH12	1.79	0.47
2:H:43:PHE:CB	2:I:22:ARG:NE	2.77	0.47
2:H:126:VAL:HG12	2:H:127:ALA:H	1.79	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
2:H:670:MET:HE2	2:H:674:ILE:CD1	2.43	0.47
2:H:1047:LEU:HD12	2:H:1047:LEU:H	1.79	0.47
2:H:1370:LEU:CA	2:H:1435:TYR:HE2	2.27	0.47
2:H:1655:HIS:HE1	2:H:1657:GLY:O	1.98	0.47
2:H:1738:VAL:HA	2:H:1800:LEU:HD13	1.96	0.47
2:H:1764:MET:HG3	2:H:1781:PHE:HE1	1.80	0.47
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:I:708:THR:HB	2:I:709:LEU:HD23	1.96	0.47
2:I:845:ASN:HB3	2:I:851:THR:HG1	1.79	0.47
2:I:1002:GLU:C	2:I:1004:SER:H	2.22	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:J:289:ILE:HG12	2:J:493:MET:CE	2.40	0.47
2:J:594:MET:HB3	2:J:808:ASP:O	2.14	0.47
2:J:716:PHE:HD1	2:J:727:VAL:CG1	2.27	0.47
2:J:783:GLY:HA3	2:J:1075:TYR:CB	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:938:MET:O	2:J:942:MET:HG3	2.14	0.47
2:J:1229:VAL:HG12	2:J:1230:LYS:N	2.29	0.47
2:J:1323:ASP:C	2:J:1583:VAL:HG11	2.39	0.47
2:J:1555:VAL:O	2:J:1555:VAL:HG12	2.14	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: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:K:92:GLU:HA	2:K:95:HIS:CE1	2.49	0.47
2:K:162:ALA:CA	2:K:167:VAL:HG22	2.42	0.47
2:K:685:VAL:CG2	2:K:1186:ARG:NH1	2.69	0.47
2:K:728:ILE:O	2:K:732:LYS:HG3	2.14	0.47
2:K:791:TYR:CD2	2:K:796:TRP:CG	3.03	0.47
2:K:1321:VAL:HG12	2:K:1322:ALA:N	2.29	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:1894:THR:HB	2:K:1954:GLN:OE1	2.15	0.47
2:K:2058:VAL:CG1	2:K:2067:ILE:HD12	2.44	0.47
2:L:76:VAL:HG11	2:L:109:PHE:HD1	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:743:TRP:CD2	2:L:761:ILE:HD11	2.48	0.47
2:L:914:TRP:CH2	2:L:1033:ALA:HA	2.50	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
2:L:1473:PHE:HE1	2:L:1513:VAL:HG21	1.79	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:1769:VAL:HG13	2:L:1774:SER:C	2.39	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: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:B:427:ARG:CG	1:B:427:ARG:NH1	2.54	0.47
1:B:889:VAL:O	1:B:893:GLN:HG3	2.15	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:HG12	1:C:859:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1104:GLN:HE22	1:F:1106:LEU:HD12	1.80	0.47
1:C:1414:PRO:HG2	1:F:1473:HIS:CD2	2.50	0.47
1:D:657:MET:HE2	1:D:657:MET:HB3	1.82	0.47
1:D:940:ASN:HB3	1:D:949:GLU:OE2	2.15	0.47
1:D:1592:ALA:O	1:D:1593:ASP:C	2.56	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: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
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
2:G:77:ALA:O	2:G:139:ALA:HB1	2.14	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: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:2009:PHE:C	2:G:2009:PHE:CD2	2.92	0.47
2:G:2058:VAL:CG1	2:G:2067:ILE:HD12	2.45	0.47
2:H:200:LEU:HD21	2:H:262:MET:HE2	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: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:1701:GLU:N	2:H:1704:MET:HE3	2.29	0.47
2:I:200:LEU:HD21	2:I:262:MET:HE2	1.97	0.47
2:I:472:THR:N	2:I:493:MET:HE3	2.26	0.47
2:I:1375:HIS:CE1	2:I:1610:MET:SD	3.07	0.47
2:I:1769:VAL:HG13	2:I:1774:SER:C	2.39	0.47
2:I:1903:VAL:HG11	2:I:1943:LEU:HD21	1.96	0.47
2:I:2039:TYR:C	2:I:2039:TYR:CD2	2.93	0.47
2:J:501:TRP:CZ2	2:J:524:ILE:HG21	2.50	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: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:871:ARG:HB2	2:K:909:ASP:HB2	1.95	0.47
2:K:1820:ASP:O	2:K:1823:SER:HB3	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2008:THR:HG22	2:L:2011:ARG:HE	1.80	0.47
1:A:9:LEU:HB2	2:G:2050:ILE:HD11	1.97	0.47
1:A:487:TYR:CE2	1:A:881:LEU:HD13	2.50	0.47
1:A:1172:ARG:HH11	1:A:1172:ARG:HG3	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: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:626:TRP:CD2	1:C:898:PHE:HD1	2.33	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: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:D:1306:GLY:O	1:D:1357:CYS:HB2	2.15	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:1172:ARG:HH11	1:E:1172:ARG:HG3	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:1514:ILE:CD1	1:E:1545:LEU:HB3	2.44	0.47
1:F:34:VAL:HG11	2:L:2047:PRO:HD3	1.97	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
1:F:1484:GLU:O	1:F:1487:THR:HB	2.14	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:G:1047:LEU:HD12	2:G:1047:LEU:H	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
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:H:1708:LEU:O	2:H:1708:LEU:HD22	2.15	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: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: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:870:THR:HG21	2:J:1064:THR:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:871:ARG:HB2	2:J:909:ASP:HB2	1.96	0.47
2:J:1200:ARG:H	2:J:1200:ARG:CD	2.13	0.47
2:J:1442:TYR:CG	2:J:1499:LYS:O	2.67	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:571:ASP:OD1	2:L:573:VAL:HG23	2.15	0.47
2:L:608:MET:HA	4:L:2101:FMN:N5	2.29	0.47
2:L:1910:VAL:HG11	2:L:1973:ILE:HG21	1.97	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:A:1186:VAL:HG23	1:A:1309:ASP:HB2	1.96	0.47
1:B:1052:ASP:O	1:B:1055:THR:O	2.32	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:C:1050:TRP:HA	1:C:1050:TRP:CE3	2.50	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:D:1213:VAL:CG1	1:D:1214:HIS:N	2.77	0.47
1:E:526:MET:HE3	1:E:614:PHE:HB2	1.96	0.47
1:F:731:ASP:HB3	1:F:735:GLY:HA3	1.96	0.47
2:G:416:GLN:C	2:G:418:ARG:H	2.22	0.47
2:G:663:ILE:HD12	2:G:663:ILE:N	2.27	0.47
2:G:1342:PHE:HE2	2:G:1391:VAL:HB	1.79	0.47
2:H:1602:LEU:HB3	2:H:1604:GLY:H	1.80	0.47
2:H:1883:MET:HB2	2:H:2001:ILE:HD12	1.96	0.47
2:H:1975:GLU:O	2:H:1979:GLN:HG3	2.14	0.47
2:H:1982:ALA:C	2:H:1984:PRO:HD3	2.40	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:I:788:THR:CG2	2:I:1094:HIS:CE1	2.98	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:460:ILE:CD1	2:K:487:ILE:HD11	2.44	0.47
2:K:785:SER:CB	2:K:1094:HIS:CD2	2.97	0.47
2:K:1061:VAL:HG11	2:K:1066:ILE:HD11	1.97	0.47
2:K:1759:GLN:HE22	2:K:1762:MET:HE2	1.80	0.47
2:L:291:VAL:O	2:L:295:ILE:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1759:GLN:HE22	2:L:1762:MET:HE2	1.80	0.47
2:L:1764:MET:HG3	2:L:1781:PHE:HE1	1.79	0.47
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:A:552:ILE:CD1	1:F:552:ILE:HG12	2.45	0.46
1:A:960:ARG:HH12	2:G:968:GLU:CD	2.23	0.46
1:A:1142:LEU:HD12	1:A:1142:LEU:N	2.30	0.46
1:B:21:GLN:O	2:H:2006:HIS:HD2	1.98	0.46
1:B:574:ILE:H	1:B:574:ILE:HG12	1.60	0.46
1:C:484:PRO:HA	1:C:485:PRO:HD3	1.80	0.46
1:C:1698:ASN:HA	1:C:1699:PRO:HD3	1.83	0.46
1:D:902:ASN:C	1:D:904:GLY:H	2.23	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:E:13:LEU:HD11	2:K:2058:VAL:HG21	1.96	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:E:943:VAL:CG2	2:K:1539:PRO:HG3	2.45	0.46
1:E:1651:TYR:CE2	1:E:1655:CYS:SG	3.08	0.46
1:F:1207:TYR:CE2	1:F:1682:LYS:HD2	2.50	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:912:LYS:HB3	2:G:1030:PHE:HA	1.96	0.46
2:G:937:ARG:HG3	2:G:941:LEU:HD12	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:1751:GLY:O	2:G:1752:PRO:C	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:57:PRO:HB2	2:H:65:GLN:HE22	1.79	0.46
2:H:381:SER:OG	2:H:392:THR:HG23	2.15	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
2:I:501:TRP:CD1	2:I:501:TRP:C	2.94	0.46
2:I:622:MET:O	2:I:656:ARG:NH1	2.48	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:J:57:PRO:HB2	2:J:65:GLN:HE22	1.80	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
2:J:1443:GLU:HA	2:J:1443:GLU:OE1	2.15	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:K:1074:LYS:HG3	2:K:1075:TYR:CD1	2.49	0.46
2:K:1293:TRP:HE1	2:K:1586:ASP:HA	1.80	0.46
2:K:1315:ILE:HA	2:K:1393:ASP:O	2.14	0.46
2:K:1335:PHE:CZ	2:K:1629:ILE:HD13	2.50	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:HD11	1.96	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: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
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:A:1685:ALA:HB1	1:A:1686:PRO:CD	2.45	0.46
1:B:28:TRP:HE1	1:B:32:GLN:NE2	2.13	0.46
1:B:347:LEU:HD12	1:E:340:LEU:HD12	1.96	0.46
1:B:382:ILE:H	1:B:382:ILE:HG13	1.59	0.46
1:B:1149:LEU:CB	1:D:1149:LEU:HB2	2.44	0.46
1:B:1501:ALA:O	1:B:1504:ARG:HB2	2.14	0.46
1:C:29:ILE:HG12	2:I:1921:ASN:C	2.40	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:D:1099:GLU:HG2	1:D:1149:LEU:HD21	1.96	0.46
1:E:519:PHE:O	1:E:523:VAL:HG23	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:914:LEU:O	1:F:917:LYS:HB3	2.15	0.46
2:G:357:THR:HG22	2:G:359:SER:H	1.80	0.46
2:G:779:GLY:HA3	2:G:811:MET:CE	2.44	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:H:709:LEU:HD23	2:H:709:LEU:N	2.26	0.46
2:H:718:PRO:HG3	2:H:727:VAL:CG2	2.45	0.46
2:I:173:PHE:CE2	2:I:516:PHE:HB2	2.50	0.46
2:I:207:LEU:HD22	2:I:309:LYS:HG3	1.95	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: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:J:245:SER:HA	2:J:436:THR:OG1	2.15	0.46
2:J:357:THR:O	2:J:361:VAL:HG23	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:1783:GLU:H	2:J:1783:GLU:CD	2.24	0.46
2:J:1886:VAL:HG22	2:J:1995:THR:HG22	1.97	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:K:664:TYR:C	2:K:666:ASN:H	2.23	0.46
2:K:887:ASP:O	2:K:888:ARG:C	2.57	0.46
2:K:1057:TYR:C	2:K:1059:GLN:H	2.23	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:1749:PHE:CD2	2:K:1758:ARG:HB3	2.50	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
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: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
1:A:564:LEU:O	1:A:567:ASN:HB2	2.15	0.46
1:A:782:LYS:NZ	1:A:786:LYS:HD2	2.31	0.46
1:A:859:VAL:HG12	1:A:859:VAL:O	2.14	0.46
1:A:1457:GLU:H	1:A:1457:GLU:HG3	1.47	0.46
1:B:673:LEU:HD21	1:B:884:MET:CE	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:960:ARG:HH11	2:H:968:GLU:HB3	1.80	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:C:458:GLU:CD	1:C:458:GLU:H	2.22	0.46
1:C:623:PHE:O	1:C:624:GLY:C	2.58	0.46
1:C:1055:THR:OG1	1:C:1057:GLU:HG2	2.16	0.46
1:C:1512:LEU:HD21	1:C:1641:TYR:CE2	2.50	0.46
1:C:1553:VAL:HG22	1:C:1604:TYR:O	2.14	0.46
1:D:427:ARG:NH1	1:D:492:ILE:HG12	2.30	0.46
1:D:1393:VAL:N	1:D:1394:PRO:HD3	2.30	0.46
1:D:1457:GLU:H	1:D:1457:GLU:HG3	1.51	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:E:1577:CYS:HB3	1:E:1620:PHE:CD2	2.50	0.46
1:F:904:GLY:HA2	1:F:906:GLN:CD	2.40	0.46
1:F:940:ASN:HB3	1:F:949:GLU:OE2	2.16	0.46
1:F:997:THR:HG21	1:F:1363:MET:HE2	1.96	0.46
1:F:1083:PRO:HD2	1:F:1084:GLU:OE2	2.16	0.46
2:G:291:VAL:O	2:G:295:ILE:HB	2.15	0.46
2:G:585:VAL:O	2:G:585:VAL:HG12	2.15	0.46
2:G:705:TYR:HA	2:G:709:LEU:HD21	1.97	0.46
2:G:1057:TYR:C	2:G:1059:GLN:H	2.23	0.46
2:G:1722:ALA:HB1	2:G:1812: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:459:LYS:HA	2:H:485:ASP:CG	2.40	0.46
2:H:529:ASN:HD22	2:H:552:VAL:CG2	2.28	0.46
2:H:762:LEU:HD23	2:H:805:MET:HE1	1.98	0.46
2:I:617:PHE:CE1	2:I:822:ALA:HB2	2.50	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:J:48:LEU:HD11	2:J:101:VAL:HG11	1.96	0.46
2:J:785:SER:HB3	2:J:1090:ILE:HG23	1.98	0.46
2:J:1179:GLU:OE1	2:J:1179:GLU:N	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:K:827:GLN:O	2:K:830:GLN:HB3	2.16	0.46
2:K:1009:ASN:HB2	2:K:1012:ASP:OD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:L:1104:ASP:OD1	2:L:1104:ASP:N	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
1:B:852:LEU:HD23	1:B:852:LEU:O	2.16	0.46
1:B:869:ARG:O	1:B:903:GLY:HA3	2.15	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:C:407:ARG:NH1	1:C:1606:VAL:HG23	2.30	0.46
1:C:1131:GLU:HG2	1:C:1138:TYR:CE2	2.50	0.46
1:D:42:GLU:H	2:J:1689:VAL:HB	1.79	0.46
1:D:383:TYR:O	1:D:387:ILE:HG12	2.15	0.46
1:D:905:LEU:C	1:D:907:PHE:H	2.24	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:E:441:ASN:HB2	1:E:444:LEU:H	1.81	0.46
1:E:1672:GLY:O	1:E:1676:ASN:N	2.48	0.46
1:F:49:PRO:HG2	2:L:1810:LEU:HD21	1.97	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:HH11	1:F:1172:ARG:HG3	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
2:G:44:GLN:HG3	2:G:101:VAL:CG2	2.46	0.46
2:G:1982:ALA:C	2:G:1984:PRO:HD3	2.40	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: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:I:481:LEU:C	2:I:483:ASP:H	2.24	0.46
2:I:784:GLY:HA3	2:I:786:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:I:2101:FMN:N1	4:I:2101:FMN:O2'	2.45	0.46
2:J:129:ILE:HG21	2:J:132:LYS:HD2	1.97	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: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:2008:THR:HG22	2:J:2011:ARG:HE	1.79	0.46
2:K:26:LEU:HD23	2:K:49:LYS:HG3	1.98	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
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:K:1883:MET:HB2	2:K:2001:ILE:HD12	1.96	0.46
2:L:356:LEU:HD22	2:L:356:LEU:HA	1.77	0.46
2:L:580:LEU:HG	2:L:1098:LEU:HD23	1.97	0.46
2:L:779:GLY:HA3	2:L:811:MET:CE	2.46	0.46
2:L:788:THR:CG2	2:L:1094:HIS:CE1	2.99	0.46
2:L:1053:ILE:CD1	2:L:1061:VAL:HG13	2.45	0.46
2:L:1331:THR:HG22	2:L:1331:THR:O	2.15	0.46
1:B:718:SER:HA	1:E:378:GLU:OE1	2.16	0.46
1:C:457:THR:HG22	1:C:464:GLN:HA	1.98	0.46
1:C:1484:GLU:O	1:C:1487:THR:HB	2.16	0.46
1:D:15:VAL:HG11	2:J:2022:LEU:CD2	2.44	0.46
1:D:21:GLN:HE21	1:D:21:GLN:HB3	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:D:1102:ILE:HD11	1:D:1148:LEU:HG	1.96	0.46
1:D:1584:GLY:HA2	1:D:1617:ILE:CD1	2.45	0.46
1:D:1702:ARG:HG2	1:D:1702:ARG:NH1	2.15	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: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:F:555:GLN:HG2	1:F:557:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:876:MET:O	1:F:876:MET:HE3	2.16	0.46
2:G:479:ARG:C	2:G:481:LEU:H	2.23	0.46
2:G:699:ILE:H	2:G:699:ILE:CD1	2.28	0.46
2:G:1746:THR:CB	2:G:1792:THR:HG23	2.39	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:I:1057:TYR:C	2:I:1059:GLN:H	2.23	0.46
2:I:1106:LYS:HD3	2:I:1106:LYS:HA	1.77	0.46
2:I:1891:ILE:HD12	2:I:1895:PHE:CE2	2.51	0.46
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:J:894:GLU:CD	2:J:897:LYS:HD3	2.40	0.46
2:J:912:LYS:HB3	2:J:1030:PHE:HA	1.98	0.46
2:J:942:MET:HE2	2:J:955:LEU:HD13	1.97	0.46
2:J:1351:VAL:CG1	2:J:1352:VAL:N	2.79	0.46
2:K:867:LYS:HB2	2:K:873:VAL:HG11	1.98	0.46
2:K:1538:ASN:HB3	2:K:1541:ILE:CG2	2.45	0.46
2:K:1656:VAL:HG22	2:K:1656:VAL:O	2.15	0.46
2:K:1871:VAL:HG21	2:K:2003:VAL:HA	1.95	0.46
2:L:489:GLU:O	2:L:492:ARG:HG2	2.15	0.46
2:L:606:ALA:HB2	2:L:811:MET:CG	2.45	0.46
2:L:762:LEU:HD23	2:L:805:MET:HE1	1.98	0.46
2:L:785:SER:HB3	2:L:1090:ILE:HG23	1.97	0.46
2:L:1289:TYR:CB	2:L:1370:LEU:HD23	2.45	0.46
1:A:34:VAL:HG11	2:G:2047:PRO:HD3	1.97	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:1402:THR:HG22	1:E:1696:PHE:HB3	1.97	0.46
1:A:1494:TRP:CG	1:A:1505:GLY:HA3	2.51	0.46
1:B:401:SER:O	1:B:405:TRP:CD1	2.69	0.46
1:B:472:GLN:HA	1:B:472:GLN:HE21	1.81	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: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:E:79:LEU:HD12	1:E:88:ILE:HD13	1.98	0.46
1:E:869:ARG:HE	1:E:869:ARG:HB2	1.62	0.46
1:E:961:ALA:HB2	1:E:1022:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:996:VAL:HG11	1:E:1578:LEU:HD11	1.96	0.46
1:E:1055:THR:OG1	1:E:1057:GLU:HG2	2.15	0.46
1:F:859:VAL:HG12	1:F:859:VAL:O	2.14	0.46
1:F:1698:ASN:C	1:F:1698:ASN:OD1	2.58	0.46
2:G:113:PHE:N	2:G:113:PHE:CD1	2.84	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:887:ASP:O	2:G:888:ARG:C	2.58	0.46
2:G:1009:ASN:HD22	2:G:1009:ASN:HA	1.53	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
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:H:685:VAL:HG23	2:H:1186:ARG:NH1	2.30	0.46
2:H:1555:VAL:O	2:H:1555:VAL:HG12	2.15	0.46
4:H:2101:FMN:N1	4:H:2101:FMN:O2'	2.44	0.46
2:I:154:TYR:CD1	2:I:561:ARG:NH2	2.84	0.46
2:I:479:ARG:C	2:I:481:LEU:H	2.24	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: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:719:GLY:O	2:J:755:GLU:HG3	2.16	0.46
2:J:762:LEU:HD23	2:J:805:MET:HE1	1.97	0.46
2:J:797:SER:O	2:J:802:TYR:HB2	2.16	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:K:441:SER:C	2:K:443:TYR:H	2.24	0.46
2:K:534:GLY:O	2:K:571:ASP:HA	2.15	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
1:A:632:LEU:O	1:A:633:THR:C	2.59	0.46
1:A:657:MET:HE2	1:A:657:MET:HB3	1.86	0.46
1:A:905:LEU:HD23	1:A:908:ILE:HD12	1.97	0.46
1:A:1154:LEU:HA	1:A:1154:LEU:HD23	1.69	0.46
1:B:46:GLU:HB3	1:B:80:CYS:HA	1.98	0.46
1:B:755:GLU:HG2	1:E:831:GLU:HG2	1.98	0.46
1:B:967:PHE:HB3	1:B:968:PRO:CD	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1546:GLY:O	1:B:1547:ARG:C	2.57	0.46
1:C:12:THR:CG2	2:I:2066:LYS:HD3	2.45	0.46
1:C:440:SER:HB3	1:C:481:LEU:CD2	2.42	0.46
1:C:741:ASP:CG	1:C:793:ARG:HH11	2.24	0.46
1:D:492:ILE:H	1:D:492:ILE:HG13	1.45	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:E:8:GLU:HG2	2:K:2027:LYS:HD3	1.97	0.46
1:E:1142:LEU:N	1:E:1142:LEU:HD12	2.31	0.46
1:E:1363:MET:HE3	1:E:1368:ALA:HB2	1.97	0.46
1:F:68:TYR:C	1:F:68:TYR:CD2	2.94	0.46
1:F:1177:GLU:O	1:F:1180:ILE:HB	2.15	0.46
1:F:1313:GLU:H	1:F:1313:GLU:HG2	1.47	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:G:1232:VAL:HA	2:G:1245:THR:O	2.15	0.46
2:G:1236:LEU:HD12	2:G:1241:GLU:O	2.16	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: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:I:391:VAL:HG12	2:I:398:LEU:HD21	1.96	0.46
2:I:463:SER:C	2:I:465:LEU:H	2.24	0.46
2:I:616:ASP:OD2	2:I:823:HIS:NE2	2.48	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
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: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:K:459:LYS:HA	2:K:485:ASP:CG	2.41	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: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:1602:LEU:HB3	2:K:1604:GLY:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:A:24:MET:HB3	2:G:2043:VAL:HG12	1.97	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:B:1078:ILE:HA	1:B:1162:GLY:HA2	1.98	0.46
1:B:1161:ALA:CA	1:B:1352:MET:HE3	2.46	0.46
1:C:422:LEU:HD13	1:C:429:ILE:HG12	1.96	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:D:31:THR:HG23	2:J:2040:ILE:CG2	2.42	0.46
1:D:450:TYR:C	1:D:450:TYR:CD2	2.93	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:D:984:LEU:HD21	1:D:1510:TRP:O	2.16	0.46
1:D:1172:ARG:HH11	1:D:1172:ARG:HG3	1.80	0.46
1:D:1579:GLN:O	1:D:1583:THR:HG23	2.16	0.46
1:E:71:ALA:HB3	2:J:371:HIS:HB2	1.98	0.46
1:E:661:GLY:O	1:E:667:ALA:HB2	2.16	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:F:879:ASN:HB3	1:F:901:LEU:HD13	1.98	0.46
2:G:534:GLY:O	2:G:571:ASP:HA	2.15	0.46
2:G:1203:TYR:O	2:G:1219:VAL:HA	2.16	0.46
2:G:2052:LYS:H	2:G:2052:LYS:HG2	1.42	0.46
2:G:2053:GLU:HA	2:G:2056:GLU:OE1	2.16	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: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:I:26:LEU:HD23	2:I:49:LYS:HG3	1.97	0.46
2:I:460:ILE:CD1	2:I:487:ILE:HD11	2.45	0.46
2:I:662:LEU:HD22	2:I:673:GLN:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:604:MET:HB3	2:J:604:MET:HE2	1.69	0.46
2:J:751:HIS:HB2	3:J:2102:NAP:N7N	2.30	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:K:596:ARG:HD3	2:K:1119:ARG:HG3	1.98	0.46
2:K:670:MET:HE2	2:K:674:ILE:CD1	2.44	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:L:865:ILE:HG22	2:L:867:LYS: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
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:A:1160:VAL:HG11	1:A:1337:PRO:HB3	1.97	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: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:401:SER:O	1:E:405:TRP:CD1	2.69	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:F:746:PHE:CG	3:F:1901:NAP:H4D	2.51	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
2:G:726:GLN:O	2:G:730:ILE:HG12	2.15	0.46
2:G:1622:THR:HG23	2:G:1627:ASN:OD1	2.16	0.46
2:H:317:TRP:CD1	2:H:454:ASP:CG	2.94	0.46
2:H:460:ILE:CD1	2:H:487:ILE:HD11	2.46	0.46
2:H:655:GLY:HA3	2:H:1272:ALA:HB2	1.98	0.46
2:H:1031:VAL:HA	2:H:1032:PRO:HD3	1.69	0.46
2:H:1047:LEU:H	2:H:1047:LEU:CD1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1204:VAL:HG22	2:H:1219:VAL:HG22	1.98	0.46
2:H:1311:GLY:HA3	2:H:1397:THR:HB	1.98	0.46
2:H:1346:MET:HE3	2:H:1617:ARG:HH21	1.79	0.46
2:H:1634:SER:HB3	2:H:1684:GLU:HB2	1.98	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:I:764:MET:O	2:I:765:TYR:C	2.59	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:J:52:PHE:HB2	2:J:82:PHE:CE2	2.50	0.46
2:J:208:LEU:HD12	2:J:227:ILE:CD1	2.40	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:J:1104:ASP:N	2:J:1104:ASP:OD1	2.48	0.46
2:J:1305:LEU:H	2:J:1305:LEU:CD1	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:K:511:THR:C	2:K:512:HIS:CD2	2.93	0.46
2:K:1741:ASN:ND2	2:K:1798:GLY:HA3	2.31	0.46
2:L:726:GLN:O	2:L:730:ILE:HG12	2.16	0.46
2:L:942:MET:HE3	2:L:1029:PRO:HD3	1.98	0.46
2:L:950:TRP:CE2	2:L:956:LYS:HG3	2.51	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:1555:VAL:HG21	2:L:1824:LYS:HA	1.97	0.46
2:L:1644:LEU:HB3	2:L:1645:PRO:CD	2.45	0.46
2:L:1948:MET:HG2	2:L:1993:PHE:CZ	2.51	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: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:B:662:ALA:HA	1:B:694:TYR:CZ	2.50	0.46
1:B:1700:GLN:O	1:B:1701:SER:C	2.59	0.46
1:C:632:LEU:O	1:C:633:THR:C	2.59	0.46
1:C:673:LEU:HD21	1:C:884:MET:CE	2.46	0.46
1:C:965:TYR:CE1	1:C:1669:PHE:CD1	3.04	0.46
1:C:1565:PRO:HG3	1:C:1572:TRP:CH2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1691:ILE:HG22	1:C:1695:VAL:HG23	1.97	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:D:1063:ASP:O	1:D:1064:VAL:C	2.57	0.46
1:E:498:THR:HG22	1:E:508:TYR:HD1	1.81	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
1:F:1078:ILE:HA	1:F:1162:GLY:HA2	1.97	0.46
2:G:792:LEU:HD23	2:G:1094:HIS:CE1	2.51	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:1738:VAL:HA	2:G:1800:LEU:HD13	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:779:GLY:HA3	2:H:811:MET:CE	2.46	0.46
2:H:1142:ILE:HG13	2:H:1209:PRO:HG2	1.97	0.46
2:H:1175:MET:O	2:H:1192:LEU:HD12	2.16	0.46
2:H:1985:GLN:C	2:H:1987:VAL:N	2.67	0.46
2:I:200:LEU:HD23	2:I:200:LEU:H	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: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: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:781:GLY:CA	2:J:1071:VAL:HG13	2.46	0.46
2:J:791:TYR:CD2	2:J:796:TRP:CG	3.03	0.46
2:J:875:PHE:C	2:J:878:GLU:HB2	2.41	0.46
2:J:929:MET:CE	2:J:934:VAL:HA	2.46	0.46
2:J:1248:GLU:OE2	2:J:1250:ARG:NE	2.45	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: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:2039:TYR:CD2	2:K:2039:TYR:C	2.94	0.46
2:L:141:TYR:OH	2:L:267:THR:HG23	2.16	0.46
2:L:196:PHE:HD2	2:L:196:PHE:N	2.14	0.46
2:L:200:LEU:HD23	2:L:200:LEU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:613:VAL:HG13	2:L:614:PRO:CD	2.46	0.46
2:L:1057:TYR:C	2:L:1059:GLN:H	2.23	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
1:A:20:TYR:CE1	2:G:2018:ARG:NH2	2.84	0.45
1:A:720:GLN:HG3	1:F:378:GLU:OE2	2.15	0.45
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: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:B:962:ASN:HB3	2:H:969:ARG:CD	2.46	0.45
1:B:1083:PRO:HD2	1:B:1084:GLU:OE2	2.16	0.45
1:B:1288:ASP:OD2	1:B:1288:ASP:C	2.59	0.45
1:C:375:TRP:CD2	1:D:375:TRP:HB3	2.51	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:C:1160:VAL:HG11	1:C:1337:PRO:HB3	1.98	0.45
1:C:1218:VAL:HG13	1:C:1301:VAL:CG1	2.46	0.45
1:C:1546:GLY:O	1:C:1547:ARG:C	2.59	0.45
1:D:1005:TRP:HE1	1:D:1561:LEU:HD22	1.77	0.45
1:E:60:THR:HG23	2:K:1922:VAL:HG13	1.99	0.45
1:E:1542:LEU:HD22	1:E:1547:ARG:HD3	1.97	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
1:F:1275:THR:HA	1:F:1276:PRO:HD3	1.59	0.45
2:G:48:LEU:HD11	2:G:101:VAL:HG11	1.97	0.45
2:G:173:PHE:CE2	2:G:516:PHE:HB2	2.51	0.45
2:G:870:THR:HG21	2:G:1064:THR:O	2.16	0.45
2:G:914:TRP:CD1	2:G:916:GLY:HA3	2.52	0.45
2:G:1346:MET:HE1	2:G:1632:VAL:O	2.16	0.45
2:G:1799:LEU:C	2:G:1801:SER:H	2.24	0.45
2:H:48:LEU:HD11	2:H:101:VAL:HG11	1.97	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
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:2039:TYR:C	2:H:2039:TYR:CD2	2.94	0.45
2:I:820:LYS:HB3	2:I:1080:ASP:O	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1350:ILE:HD13	2:I:1610:MET:SD	2.56	0.45
2:J:479:ARG:C	2:J:481:LEU:H	2.24	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:J:1142:ILE:HG13	2:J:1209:PRO:HG2	1.98	0.45
2:K:76:VAL:HG11	2:K:109:PHE:HD1	1.81	0.45
2:K:182:TYR:CD1	2:K:183:PHE:N	2.84	0.45
2:K:608:MET:O	2:K:609:THR:C	2.59	0.45
2:K:789:TYR:O	2:K:792:LEU:HB3	2.16	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:L:155:ASP:OD1	2:L:155:ASP:N	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
2:L:1192:LEU:HD22	2:L:1196:PHE:CE1	2.51	0.45
2:L:1382:MET:HE2	2:L:1382:MET:HB3	1.80	0.45
1:A:846:TRP:HZ2	1:A:856:ASN:O	1.99	0.45
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:A:994:VAL:HG21	1:A:1291:TYR:CD1	2.51	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: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: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: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:1414:PRO:HG2	1:F:1473:HIS:NE2	2.31	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:E:1514:ILE:H	1:E:1514:ILE:HG13	1.37	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:G:1701:GLU:N	2:G:1704:MET:HE3	2.31	0.45
2:H:117:ASN:CA	2:H:561:ARG:HG3	2.34	0.45
2:H:481:LEU:C	2:H:483:ASP:H	2.25	0.45
2:H:501:TRP:CD1	2:H:501:TRP:C	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1948:MET:HG2	2:H:1993:PHE:CZ	2.52	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:2009:PHE:HD2	2:H:2009:PHE:O	1.99	0.45
2:I:186:LEU:CG	2:I:256:VAL:HG22	2.45	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:I:1346:MET:HE3	2:I:1617:ARG:HH21	1.81	0.45
2:I:1981:GLU:O	2:I:1984:PRO:HG3	2.16	0.45
2:I:2044:THR:C	2:I:2046:LYS:H	2.24	0.45
2:J:113:PHE:N	2:J:113:PHE:CD1	2.84	0.45
2:J:123:ALA:O	2:J:126:VAL:HG23	2.17	0.45
2:J:174:GLY:H	2:J:517:GLY:CA	2.28	0.45
2:J:609:THR:CB	2:J:610:PRO:HD3	2.45	0.45
2:J:1000:TYR:HA	2:J:1001:PRO:HD2	1.74	0.45
2:J:1289:TYR:CB	2:J:1370:LEU:HD23	2.46	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
2:K:76:VAL:O	2:K:80:ILE:HG13	2.16	0.45
2:K:129:ILE:CG2	2:K:132:LYS:HD2	2.46	0.45
2:K:172:ILE:HG22	2:K:514:VAL:C	2.42	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:621:THR:OG1	2:K:1083:ILE:HD13	2.16	0.45
2:K:1751:GLY:O	2:K:1752:PRO:C	2.60	0.45
2:K:1769:VAL:HG13	2:K:1774:SER:O	2.15	0.45
2:L:57:PRO:HB2	2:L:65:GLN:HE22	1.81	0.45
2:L:223:LYS:HB3	2:L:242:TYR:CZ	2.51	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
2:L:928:ASP:C	2:L:1007:LEU:HD23	2.41	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
1:A:1698:ASN:OD1	1:A:1698:ASN:C	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1183:VAL:HG11	1:C:1187:THR:CG2	2.46	0.45
1:D:23:ALA:HA	2:J:2007:SER:O	2.17	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:D:1078:ILE:CG2	1:D:1352:MET:HE2	2.46	0.45
1:D:1275:THR:HA	1:D:1276:PRO:HD3	1.55	0.45
1:E:1011:ARG:NH1	1:E:1012:TRP:HA	2.32	0.45
1:E:1338:GLY:C	1:E:1340:MET:N	2.74	0.45
1:E:1698:ASN:C	1:E:1698:ASN:OD1	2.58	0.45
2:G:76:VAL:HG11	2:G:109:PHE:CD1	2.50	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:1180:VAL:CG1	2:G:1188:GLN:H	2.30	0.45
2:G:1783:GLU:H	2:G:1783:GLU:CD	2.24	0.45
2:H:204:ILE:CG2	2:H:312:VAL:HG11	2.45	0.45
2:H:388:ASN:C	2:H:388:ASN:ND2	2.71	0.45
2:H:737:PHE:O	2:H:773:ASN:HB3	2.16	0.45
2:H:747:ARG:HH11	2:H:780:SER:CB	2.25	0.45
2:H:838:VAL:HG12	2:H:839:ASP:N	2.30	0.45
2:H:929:MET:CE	2:H:934:VAL:HA	2.46	0.45
2:H:1000:TYR:HA	2:H:1001:PRO:HD2	1.72	0.45
2:H:1002:GLU:C	2:H:1004:SER:H	2.24	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:I:441:SER:C	2:I:443:TYR:H	2.25	0.45
2:I:521:VAL:CG1	2:I:549:ASN:HB2	2.46	0.45
2:I:787:ASP:CG	2:I:1075:TYR:HE2	2.25	0.45
2:I:1709:TYR:HE2	2:I:1716:LYS:HE2	1.81	0.45
2:J:1057:TYR:C	2:J:1059:GLN:H	2.23	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:1881:TYR:CB	2:J:2004:PRO:HG3	2.47	0.45
2:J:1910:VAL:CG1	2:J:1973:ILE:HG21	2.46	0.45
2:K:73:VAL:HA	2:K:113:PHE:CE2	2.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1805:PHE:C	2:K:1808:PRO:HD2	2.41	0.45
2:K:1871:VAL:CG2	2:K:2004:PRO:HD3	2.46	0.45
2:K:1985:GLN:C	2:K:1987:VAL:N	2.68	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
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
1:A:46:GLU:HB3	1:A:80:CYS:HA	1.99	0.45
1:B:759:ILE:HD12	1:B:759:ILE:N	2.31	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: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:334:ALA:O	1:F:338:GLN:HG3	2.16	0.45
2:G:76:VAL:O	2:G:80:ILE:HG13	2.16	0.45
2:G:204:ILE:HG21	2:G:312:VAL:HG21	1.98	0.45
2:G:747:ARG:NH1	2:G:780:SER:O	2.49	0.45
2:G:883:ILE:HG22	2:G:884:PHE:N	2.30	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: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:764:MET:O	2:H:765:TYR:C	2.59	0.45
2:H:882:LYS:HD3	2:H:898:ARG:CZ	2.47	0.45
2:I:617:PHE:HE1	2:I:819:ALA:HB3	1.82	0.45
2:I:699:ILE:H	2:I:699:ILE:CD1	2.26	0.45
2:I:942:MET:HE3	2:I:1029:PRO:HD3	1.99	0.45
2:I:2021:LEU:HD22	2:I:2025:ILE:HD11	1.98	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: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:K:1047:LEU:HD12	2:K:1047:LEU:N	2.31	0.45
2:K:1289:TYR:CB	2:K:1370:LEU:HD23	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1324:PHE:CA	2:K:1583:VAL:HG11	2.47	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
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
1:A:11:TYR:CD1	2:G:2027:LYS:HG2	2.50	0.45
1:A:636:TYR:CE1	1:A:883:LEU:HD23	2.51	0.45
1:A:1150:ILE:HG12	1:E:1148:LEU:HD21	1.98	0.45
1:B:40:ARG:NH2	1:B:72:THR:CG2	2.80	0.45
1:B:329:THR:O	1:B:332:GLN:HB2	2.16	0.45
1:B:1337:PRO:HA	1:B:1340:MET:CG	2.46	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: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:57:PRO:HB2	2:G:65:GLN:HE22	1.81	0.45
2:G:76:VAL:HG11	2:G:109:PHE:HD1	1.82	0.45
2:G:685:VAL:CG1	2:G:687:ILE:HG13	2.41	0.45
2:G:856:THR:HG23	2:G:866:HIS:NE2	2.32	0.45
2:G:915:PHE:CD2	2:G:915:PHE:O	2.69	0.45
2:G:1053:ILE:CD1	2:G:1061:VAL:HG13	2.46	0.45
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
2:H:31:LEU:HB2	2:H:72:VAL:HG22	1.98	0.45
2:H:43:PHE:CZ	2:I:42:HIS:CE1	3.05	0.45
2:H:76:VAL:HG11	2:H:109:PHE:CD1	2.51	0.45
2:H:202:THR:O	2:H:206:GLU:HG3	2.16	0.45
2:H:1521:GLU:OE2	2:H:2028:THR:HG21	2.17	0.45
2:H:1903:VAL:HG11	2:H:1943:LEU:HD21	1.99	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:I:1749:PHE:CD2	2:I:1758:ARG:HB3	2.51	0.45
2:J:315:LEU:HA	2:J:318:ILE:HD12	1.97	0.45
2:J:416:GLN:C	2:J:418:ARG:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:501:TRP:NE1	2:J:528:THR:CG2	2.73	0.45
2:K:790:PRO:HA	2:K:795:SER:OG	2.17	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: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
2:L:1234:ILE:HG22	2:L:1242:ILE:HG22	1.98	0.45
2:L:1464:LEU:HD13	2:L:1464:LEU:C	2.42	0.45
2:L:1802:ALA:CB	2:L:1804:GLN:HE22	2.27	0.45
1:A:620:LYS:HE3	1:A:626:TRP:CZ2	2.52	0.45
1:A:657:MET:HE1	1:A:666:GLY:O	2.17	0.45
1:A:857:ASN:HA	1:A:860:ALA:HB2	1.98	0.45
1:A:997:THR:HG23	1:A:1361:VAL:HG22	1.98	0.45
1:A:1050:TRP:HA	1:A:1050:TRP:CE3	2.52	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:B:492:ILE:H	1:B:492:ILE:HG13	1.50	0.45
1:B:1177:GLU:O	1:B:1180:ILE:HB	2.16	0.45
1:C:17:LEU:HD23	2:I:2043:VAL:CG2	2.46	0.45
1:C:41:THR:HA	2:I:1689:VAL:HB	1.98	0.45
1:C:857:ASN:HA	1:C:860:ALA:HB2	1.98	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:D:79:LEU:HD12	1:D:88:ILE:HD13	1.99	0.45
1:D:1055:THR:OG1	1:D:1057:GLU:HG2	2.17	0.45
1:E:904:GLY:HA2	1:E:906:GLN:CD	2.41	0.45
1:E:1071:TYR:C	1:E:1071:TYR:CD2	2.93	0.45
1:F:421:ARG:NH2	1:F:1613:LYS:HB3	2.31	0.45
1:F:1161:ALA:O	1:F:1163:GLN:HG3	2.17	0.45
2:G:472:THR:HB	2:G:493:MET:HB3	1.99	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:H:155:ASP:HB3	2:H:278:ARG:NH1	2.32	0.45
2:H:352:SER:HB2	2:H:433:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:529:ASN:HD22	2:H:552:VAL:HG23	1.82	0.45
2:H:1194:ARG:NH2	2:H:1601:ASN:HA	2.32	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:1799:LEU:C	2:H:1801:SER:H	2.23	0.45
2:H:2008:THR:HG22	2:H:2011:ARG:HE	1.82	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: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:I:1517:LEU:CD2	2:I:1523:ILE:HD11	2.46	0.45
2:I:1887:ASN:OD1	2:I:1889:SER:HB2	2.15	0.45
2:J:594:MET:SD	2:J:809:GLY:HA3	2.57	0.45
2:J:613:VAL:N	2:J:614:PRO:HD3	2.32	0.45
2:J:788:THR:CG2	2:J:1094:HIS:CE1	2.99	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:K:200:LEU:HD23	2:K:200:LEU:H	1.82	0.45
2:K:1009:ASN:HD22	2:K:1009:ASN:HA	1.56	0.45
2:K:1457:HIS:HD1	2:K:1487:THR:HG22	1.80	0.45
2:L:462:ALA:HB3	2:L:483:ASP:HA	1.98	0.45
2:L:917:ARG:CG	2:L:917:ARG:NH1	2.44	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
1:A:22:PHE:HE2	2:G:2017:PHE:CB	2.29	0.45
1:A:81:TYR:HD1	2:G:1821:MET:HE3	1.81	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: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:1496:ARG:NH2	1:E:1297:GLY:HA2	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:427:ARG:HH12	1:B:492:ILE:CG2	2.07	0.45
1:B:565:GLN:O	1:B:565:GLN:HG2	2.15	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: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:C:1278:GLY:CA	1:C:1630:LYS:HE2	2.41	0.45
1:C:1473:HIS:NE2	1:F:1414:PRO:HG2	2.32	0.45
1:D:30:GLU:CB	2:J:2045:ALA:HB1	2.41	0.45
1:D:526:MET:CE	1:D:615:LEU:HG	2.47	0.45
1:D:746:PHE:CG	3:D:1901:NAP:H4D	2.51	0.45
1:D:876:MET:HE3	1:D:876:MET:O	2.16	0.45
1:E:330:LYS:HG3	1:E:333:ARG:HH12	1.79	0.45
1:E:852:LEU:HD23	1:E:852:LEU:O	2.17	0.45
1:F:28:TRP:HE1	1:F:32:GLN:NE2	2.14	0.45
1:F:632:LEU:O	1:F:633:THR:C	2.59	0.45
2:G:48:LEU:HB2	2:G:79:TYR:OH	2.17	0.45
2:G:186:LEU:HD21	2:G:256:VAL:HG22	1.97	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:616:ASP:OD2	2:G:823:HIS:CE1	2.70	0.45
2:G:690:LEU:HB2	2:G:711:ILE:HG21	1.99	0.45
2:G:871:ARG:HB2	2:G:909:ASP:HB2	1.98	0.45
2:G:1194:ARG:NH1	2:G:1194:ARG:CG	2.51	0.45
2:G:1332:GLY:C	2:G:1334:ALA:N	2.72	0.45
2:G:1361:ILE:HG22	2:G:1435:TYR:OH	2.17	0.45
2:G:1382:MET:HG2	2:G:1427:MET:HE2	1.98	0.45
2:G:1538:ASN:HB3	2:G:1541:ILE:CG2	2.46	0.45
2:G:1820:ASP:O	2:G:1823:SER:HB3	2.17	0.45
2:G:1969:LEU:HA	2:G:1972:ILE:CD1	2.47	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:781:GLY:CA	2:H:1071:VAL:HG13	2.46	0.45
2:H:797:SER:O	2:H:802:TYR:HB2	2.16	0.45
2:H:887:ASP:O	2:H:888:ARG:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:907:ASN:HA	2:H:913:VAL:HG13	1.99	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: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
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: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: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:K:1017:LEU:O	2:K:1021:GLN:HG3	2.16	0.45
2:K:2044:THR:C	2:K:2046:LYS:H	2.24	0.45
2:L:45:ALA:HB2	2:L:101:VAL:HG22	1.99	0.45
2:L:906:LEU:HD22	2:L:906:LEU:HA	1.81	0.45
2:L:1405:ILE:HG12	2:L:1412:MET:HE3	1.99	0.45
2:L:1472:TRP:CD2	2:L:1540:VAL:HG22	2.52	0.45
1:A:2:ARG:HB2	1:A:5:VAL:HB	1.98	0.45
1:A:576:ALA:HB3	1:F:541:VAL:HG22	1.99	0.45
1:A:827:ARG:NH1	1:A:831:GLU:OE2	2.50	0.45
1:A:1507:LEU:HD23	1:A:1507:LEU:HA	1.84	0.45
1:A:1696:PHE:HB3	1:E:1402:THR:HG22	1.99	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:HG12	1:B:859:VAL:O	2.16	0.45
1:B:904:GLY:HA2	1:B:906:GLN:CD	2.41	0.45
1:B:1121:ARG:NH1	1:D:1153:ALA:O	2.49	0.45
1:D:413:MET:O	1:D:416:ASP:HB2	2.17	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:E:844:ILE:N	1:E:844:ILE:HD12	2.32	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: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
1:F:1703:VAL:HG22	1:F:1712:LYS:C	2.41	0.45
2:G:60:THR:HG22	2:G:62:GLU:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:330:SER:H	2:H:1331:THR:HG22	1.82	0.45
2:G:391:VAL:HG12	2:G:398:LEU:HD21	1.99	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: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:416:GLN:C	2:H:418:ARG:H	2.25	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:76:VAL:HG11	2:I:109:PHE:HD1	1.81	0.45
2:I:117:ASN:OD1	2:I:561:ARG:HB2	2.16	0.45
2:I:372:LEU:CD1	2:I:397:SER:HB2	2.47	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:931:TYR:CZ	2:I:1008:ILE:HA	2.52	0.45
2:I:1195:LEU:CD2	2:I:1595:VAL:HG12	2.47	0.45
2:I:1361:ILE:HG22	2:I:1435:TYR:OH	2.17	0.45
2:I:1656:VAL:HG22	2:I:1656:VAL:O	2.17	0.45
2:I:1721:ARG:NH1	2:I:1854:GLU:OE2	2.49	0.45
2:J:1019:LEU:HA	2:J:1022:ARG:HD2	1.97	0.45
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:200:LEU:HD21	2:K:262:MET:HE2	1.99	0.45
2:K:327:PRO:CD	2:L:1338:ARG:HH21	2.28	0.45
2:K:1192:LEU:HD22	2:K:1196:PHE:CE1	2.50	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:1229:VAL:CG1	2:L:1230:LYS:N	2.79	0.45
2:L:1517:LEU:CD2	2:L:1523:ILE:HD11	2.47	0.45
1:A:539:THR:HA	1:A:542:GLN:HE21	1.82	0.45
1:A:1063:ASP:O	1:A:1064:VAL:C	2.59	0.45
1:A:1071:TYR:C	1:A:1071:TYR:CD2	2.94	0.45
1:A:1199:LEU:O	1:A:1199:LEU:HD23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1154:LEU:HD21	1:D:1118:GLU:OE2	2.17	0.45
1:C:443:LEU:HD12	1:C:443:LEU:H	1.82	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:D:687:PHE:C	1:D:687:PHE:HD2	2.25	0.45
1:D:1078:ILE:HA	1:D:1162:GLY:HA2	1.98	0.45
1:D:1199:LEU:O	1:D:1199:LEU:HD23	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:452:ILE:CD1	1:E:467:LYS:HA	2.47	0.45
1:E:1022:LEU:O	1:E:1022:LEU:HD13	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:F:1265:LEU:O	1:F:1266:LEU:HD23	2.17	0.45
1:F:1363:MET:HE3	1:F:1363:MET:HB2	1.70	0.45
1:F:1419:LYS:O	1:F:1422:ARG:HB2	2.17	0.45
2:G:196:PHE:HD2	2:G:196:PHE:N	2.14	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:G:1231:THR:HG23	2:G:1595:VAL:CG2	2.41	0.45
2:H:248:VAL:O	2:H:252:LEU:HB2	2.17	0.45
2:H:479:ARG:C	2:H:481:LEU:H	2.25	0.45
2:H:541:LEU:HG	2:H:552:VAL:CG1	2.47	0.45
2:I:44:GLN:O	2:I:48:LEU:HG	2.16	0.45
2:I:52:PHE:HB2	2:I:82:PHE:CE2	2.51	0.45
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: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:747:ARG:NH1	2:I:780:SER:O	2.50	0.45
2:I:1194:ARG:NH1	2:I:1194:ARG:CG	2.55	0.45
2:J:226:ASP:OD2	2:J:229:GLN:HB2	2.17	0.45
2:J:376:ARG:NH2	2:K:1340:LYS:HG3	2.32	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:K:1332:GLY:C	2:K:1334:ALA:H	2.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:44:GLN:O	2:L:48:LEU:HG	2.17	0.45
2:L:200:LEU:HD21	2:L:262:MET:HE2	1.98	0.45
2:L:962:PHE:O	2:L:965:ARG:HB3	2.16	0.45
2:L:1384:PRO:HB3	2:L:1829:ARG:HH12	1.82	0.45
1:A:21:GLN:HE21	1:A:21:GLN:HB3	1.57	0.45
1:A:532:ILE:HG21	1:A:907:PHE:CB	2.44	0.45
1:A:1654:TYR:CZ	1:A:1658:VAL:HG21	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:B:997:THR:CG2	1:B:1363:MET:HE2	2.46	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:D:605:ARG:HB3	1:D:606:PRO:HD2	1.96	0.45
1:D:904:GLY:HA2	1:D:906:GLN:CD	2.42	0.45
1:D:997:THR:CG2	1:D:1363:MET:HE2	2.47	0.45
1:D:1129:ILE:HA	1:D:1139:THR:O	2.16	0.45
1:E:1288:ASP:OD2	1:E:1288:ASP:C	2.60	0.45
1:E:1491:ASN:ND2	1:E:1491:ASN:H	2.15	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
1:F:1306:GLY:O	1:F:1357:CYS:HB2	2.17	0.45
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: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:1496:VAL:HG21	2:G:1504:TYR:CD2	2.52	0.45
2:G:1499:LYS:CG	2:G:1500:ASN:N	2.79	0.45
2:G:1910:VAL:CG1	2:G:1973:ILE:HG21	2.47	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:376:ARG:NH2	2:I:1340:LYS:HE3	2.27	0.45
2:H:460:ILE:O	2:H:486:ILE:N	2.49	0.45
2:H:468:PRO:HA	2:H:479:ARG:HD3	1.99	0.45
2:H:718:PRO:HG2	2:H:741:LEU:CD1	2.47	0.45
2:H:2063:GLY:O	2:H:2065:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:I:1510:ILE:HA	2:I:1528:VAL:O	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: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:K:57:PRO:HB2	2:K:65:GLN:HE22	1.81	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:604:MET:HB3	2:K:604:MET:HE2	1.71	0.45
2:K:1634:SER:HB3	2:K:1684:GLU:HB2	1.98	0.45
2:L:276:LEU:O	2:L:467:ILE:CD1	2.65	0.45
2:L:317:TRP:CD1	2:L:454:ASP:CG	2.95	0.45
2:L:318:ILE:HA	2:L:451:ILE:HD13	1.99	0.45
2:L:818:THR:HA	2:L:829:LYS:HE2	1.98	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
1:A:958:GLU:HA	1:A:959:PRO:HD3	1.84	0.44
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: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:B:1164:ILE:CD1	1:B:1355:GLN:HG3	2.46	0.44
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:C:626:TRP:CD2	1:C:898:PHE:CD1	3.04	0.44
1:C:714:PHE:CE1	1:C:725:LEU:HD12	2.51	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:D:409:ASP:HB2	1:D:439:ARG:HH12	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:998:GLY:CA	1:D:1361:VAL:HG13	2.31	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: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:F:23:ALA:HB2	2:L:2010:LEU:HB2	1.99	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:460:ILE:O	2:G:486:ILE:N	2.50	0.44
2:G:839:ASP:C	2:G:841:ASP:N	2.75	0.44
2:G:942:MET:HE2	2:G:955:LEU:HD13	1.97	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:H	2:G:1483:LEU:HG	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:N1	4:G:2101:FMN:O2'	2.47	0.44
2:H:52:PHE:HB2	2:H:82:PHE:CE2	2.52	0.44
2:H:443:TYR:C	2:H:445:ALA:H	2.25	0.44
2:H:571:ASP:OD2	2:H:573:VAL:HB	2.17	0.44
2:H:601:PRO:HB2	2:H:626:TYR:CE2	2.52	0.44
2:H:746:GLY:O	2:H:843:TRP:NE1	2.50	0.44
2:H:1067:LEU:O	2:H:1068:GLN:HG2	2.17	0.44
2:H:1481:ILE:HG13	2:H:1481:ILE:O	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:I:781:GLY:CA	2:I:1071:VAL:HG13	2.46	0.44
2:I:1028:VAL:HA	2:I:1029:PRO:HD3	1.74	0.44
2:I:1309:PHE:CD1	2:I:1309:PHE:N	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:38:PRO:HD2	2:J:104:LEU:CD1	2.45	0.44
2:J:76:VAL:HG11	2:J:109:PHE:HD1	1.82	0.44
2:J:815:ARG:NH2	2:J:1086:ILE:CG2	2.80	0.44
2:J:917:ARG:HB2	2:J:937:ARG:HD3	1.99	0.44
2:J:1447:GLN:HB3	2:J:1496:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2044:THR:C	2:J:2046:LYS:H	2.24	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: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:K:1031:VAL:HA	2:K:1032:PRO:HD3	1.70	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
2:L:1083:ILE:HG13	2:L:1083:ILE:H	1.53	0.44
2:L:1799:LEU:C	2:L:1801:SER:H	2.24	0.44
2:L:2044:THR:HG21	2:L:2054:TYR:CZ	2.52	0.44
1:A:47:ILE:CD1	2:G:1818:PHE:HD1	2.30	0.44
1:A:382:ILE:H	1:A:382:ILE:HG13	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: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:B:681:ILE:HG23	1:B:681:ILE:O	2.17	0.44
1:B:1306:GLY:O	1:B:1357:CYS:HB2	2.17	0.44
1:C:392:ASP:HA	1:C:393:PRO:HD2	1.78	0.44
1:C:502:ALA:C	1:C:929:ARG:HD3	2.41	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: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:D:1564:HIS:C	1:D:1564:HIS:ND1	2.74	0.44
1:D:1589:ASN:C	1:D:1589:ASN:ND2	2.75	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
1:E:40:ARG:HH21	1:E:74:VAL:HG22	1.83	0.44
1:E:474:ILE:O	1:E:478:LYS:HG3	2.17	0.44
1:E:935:GLU:HG3	2:K:1466:VAL:CG1	2.47	0.44
1:E:1063:ASP:O	1:E:1064:VAL:C	2.60	0.44
1:E:1579:GLN:O	1:E:1583:THR:HG23	2.17	0.44
1:F:852:LEU:O	1:F:852:LEU:HD23	2.17	0.44
2:G:45:ALA:HB2	2:G:101:VAL:HG22	2.00	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
2:H:208:LEU:HD23	2:H:211:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:472:THR:HB	2:H:493:MET:HB3	2.00	0.44
2:H:729:ASN:HD22	2:H:729:ASN:N	2.15	0.44
2:H:856:THR:HG23	2:H:866:HIS:NE2	2.32	0.44
2:H:1104:ASP:N	2:H:1104:ASP:OD1	2.49	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:H	2:H:1972:ILE:HG13	1.42	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: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:1634:SER:HB3	2:I:1684:GLU:HB2	1.99	0.44
2:I:1644:LEU:HB3	2:I:1645:PRO:CD	2.47	0.44
2:I:1783:GLU:CD	2:I:1783:GLU:H	2.24	0.44
2:J:168:LYS:H	2:J:511:THR:HB	1.82	0.44
2:J:399:TYR:CE2	2:J:403:LEU:HD11	2.52	0.44
2:J:835:ALA:HB3	2:J:1073:ALA:HB1	1.98	0.44
2:J:868:LEU:HD12	2:J:1066:ILE:HD12	1.99	0.44
2:J:1948:MET:HG2	2:J:1993:PHE:CZ	2.52	0.44
2:J:1961:SER:O	2:J:1965:VAL:HG22	2.18	0.44
2:K:48:LEU:H	2:K:48:LEU:HG	1.54	0.44
2:K:113:PHE:CD1	2:K:113:PHE:N	2.85	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
2:K:917:ARG:CG	2:K:917:ARG:NH1	2.47	0.44
2:K:1125:ASP:C	2:K:1127:GLU:H	2.25	0.44
2:K:1336:VAL:O	2:K:1336:VAL:HG12	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:L:48:LEU:HB2	2:L:79:TYR:OH	2.18	0.44
2:L:52:PHE:HB2	2:L:82:PHE:CE2	2.53	0.44
2:L:204:ILE:CG2	2:L:312:VAL:HG11	2.47	0.44
2:L:276:LEU:HD21	2:L:296:ALA:HA	1.99	0.44
2:L:290:VAL:HG11	2:L:315:LEU:CD1	2.47	0.44
2:L:460:ILE:CD1	2:L:487:ILE:HD11	2.46	0.44
2:L:511:THR:O	2:L:512:HIS:CD2	2.70	0.44
2:L:871:ARG:HB2	2:L:909:ASP:HB2	1.98	0.44
2:L:942:MET:HE3	2:L:1029:PRO:CD	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1759:GLN:NE2	2:L:1762:MET:HE2	2.33	0.44
2:L:1820:ASP:O	2:L:1823:SER:HB3	2.17	0.44
4:L:2101:FMN:N1	4:L:2101:FMN:O2'	2.48	0.44
1:A:1219:GLY:HA2	1:A:1272:PRO:HD2	1.99	0.44
1:B:330:LYS:HG3	1:B:333:ARG:HH12	1.80	0.44
1:B:1080:LEU:HD23	1:B:1080:LEU:HA	1.87	0.44
1:B:1186:VAL:HG12	1:B:1187:THR:N	2.31	0.44
1:C:93:GLU:HA	1:C:94:PRO:HD3	1.83	0.44
1:C:1426:GLU:HA	1:C:1429:ARG:HB2	1.98	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:570:TYR:CD2	1:E:574:ILE:HD11	2.51	0.44
1:F:21:GLN:HE22	2:L:1841:TYR:HE1	1.64	0.44
1:F:452:ILE:HD13	1:F:452:ILE:HA	1.89	0.44
1:F:1102:ILE:HD13	1:F:1106:LEU:CD2	2.48	0.44
2:G:38:PRO:HD2	2:G:104:LEU:CD1	2.46	0.44
2:G:821:GLU:OE2	2:G:1083:ILE:HG13	2.16	0.44
2:G:916:GLY:O	2:G:924:VAL:HG23	2.17	0.44
2:G:1693:VAL:HA	2:G:1834:ALA:O	2.18	0.44
2:H:501:TRP:NE1	2:H:528:THR:CG2	2.77	0.44
2:H:990:TYR:N	2:H:991:PRO:CD	2.80	0.44
2:H:1350:ILE:HD13	2:H:1610:MET:SD	2.57	0.44
2:H:1384:PRO:CB	2:H:1829:ARG:HH12	2.30	0.44
2:H:1770:ASN:HB2	2:H:1776:LYS:CE	2.41	0.44
2:H:1803:THR:O	2:H:1804:GLN:C	2.61	0.44
2:I:690:LEU:HD22	2:I:691:THR:H	1.82	0.44
2:I:906:LEU:HD22	2:I:906:LEU:HA	1.80	0.44
2:I:929:MET:CE	2:I:934:VAL:HA	2.47	0.44
2:I:938:MET:HE2	2:I:959:THR:CG2	2.46	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:1759:GLN:NE2	2:I:1762:MET:HE2	2.32	0.44
2:I:1805:PHE:C	2:I:1808:PRO:HD2	2.42	0.44
2:I:1933:LEU:HB3	2:I:1987:VAL:HB	1.99	0.44
2:J:265:CYS:SG	2:J:275:LEU:HB2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:268:LEU:HB3	2:J:270:ARG:HD3	1.98	0.44
2:J:621:THR:OG1	2:J:1083:ILE:HD13	2.18	0.44
2:J:866:HIS:HB3	2:J:1068:GLN:O	2.17	0.44
2:J:1491:ARG:C	2:J:1492:LEU:HD23	2.43	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:1957:MET:HE3	2:J:1962:LEU:CD2	2.48	0.44
2:K:153:PRO:HB3	2:K:270:ARG:NH1	2.32	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:K:1047:LEU:HD12	2:K:1047:LEU:H	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: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: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
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
2:L:876:TRP:C	2:L:876:TRP:HD1	2.21	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
1:A:486:VAL:HG13	1:A:648:LEU:H	1.80	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:B:546:ARG:HH11	1:B:631:LYS:NZ	2.14	0.44
1:B:1249:ILE:H	1:B:1249:ILE:HG13	1.31	0.44
1:C:450:TYR:CE1	1:C:1551:ASN:HB2	2.53	0.44
1:C:755:GLU:C	1:C:757:ASP:N	2.74	0.44
1:C:844:ILE:HD12	1:C:844:ILE:H	1.82	0.44
1:C:883:LEU:N	1:C:883:LEU:HD23	2.32	0.44
1:C:997:THR:CG2	1:C:1363:MET:HE2	2.47	0.44
1:C:1011:ARG:HH11	1:C:1012:TRP:HA	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1172:ARG:HH11	1:C:1172:ARG:HG3	1.83	0.44
1:D:942:VAL:O	2:J:1536:HIS:HB2	2.17	0.44
1:D:1042:LEU:O	1:D:1043:LYS:HB2	2.17	0.44
1:D:1148:LEU:HD23	1:D:1148:LEU:HA	1.67	0.44
1:D:1171:ARG:HD3	1:D:1177:GLU:OE1	2.16	0.44
1:E:491:SER:HG	1:E:519:PHE:HE2	1.64	0.44
1:E:679:LYS:HG2	1:E:708:GLN:HB3	1.99	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:F:904:GLY:C	1:F:906:GLN:H	2.26	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
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:CD1	2:G:754:PHE:N	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: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:H:186:LEU:HD21	2:H:256:VAL:HG22	1.99	0.44
2:H:327:PRO:N	2:I:1338:ARG:NH2	2.66	0.44
2:H:915:PHE:CD2	2:H:915:PHE:O	2.70	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:1886:VAL:HG22	2:H:1995:THR: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:I:155:ASP:OD1	2:I:155:ASP:N	2.51	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:I:1231:THR:CG2	2:I:1595:VAL:HG11	2.48	0.44
2:I:1336:VAL:O	2:I:1336:VAL:HG12	2.17	0.44
2:I:1728:GLU:HG2	2:I:1753:ARG:HE	1.82	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:728:ILE:O	2:J:732:LYS:HG3	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1353:GLY:HA2	2:J:1397:THR:HG21	2.00	0.44
2:K:501:TRP:CD1	2:K:501:TRP:C	2.95	0.44
2:K:606:ALA:HB2	2:K:811:MET:CG	2.47	0.44
2:K:617:PHE:HE1	2:K:819:ALA:HB3	1.82	0.44
2:K:690:LEU:HD22	2:K:691:THR:H	1.83	0.44
2:K:796:TRP:CZ2	2:K:805:MET:HE2	2.52	0.44
2:K:826:LYS:HD3	2:K:826:LYS:HA	1.79	0.44
2:K:1977:ARG:HD3	2:K:1978:LYS:HG3	1.98	0.44
2:L:821:GLU:OE2	2:L:1083:ILE:HG13	2.17	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:HD2	1:A:687:PHE:O	2.01	0.44
1:A:997:THR:CG2	1:A:1363:MET:HE2	2.46	0.44
1:A:1338:GLY:C	1:A:1340:MET:N	2.76	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: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:1363:MET:HE3	1:B:1368:ALA:HB2	2.00	0.44
1:B:1504:ARG:NH2	1:B:1545:LEU:O	2.50	0.44
1:C:560:LYS:O	1:C:564:LEU:HB2	2.18	0.44
1:C:1005:TRP:HE1	1:C:1561:LEU:HD22	1.78	0.44
1:C:1589:ASN:ND2	1:C:1589:ASN:C	2.74	0.44
1:D:1095:GLN:C	1:D:1096:LEU:HD23	2.43	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:687:PHE:C	1:E:687:PHE:HD2	2.26	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
1:F:968:PRO:HD2	1:F:1374:PRO:HB3	1.99	0.44
1:F:1099:GLU:HG2	1:F:1149:LEU:HD21	1.98	0.44
2:G:52:PHE:HB2	2:G:82:PHE:CE2	2.53	0.44
2:G:468:PRO:HA	2:G:479:ARG:HD3	2.00	0.44
2:G:596:ARG:HD3	2:G:1119:ARG:HG3	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1026:LYS:HG3	3:G:2102:NAP:N7A	2.32	0.44
2:G:1217:ILE:O	2:G:1233:GLU:HA	2.17	0.44
2:H:1945:ILE:O	2:H:1949:GLN:HB2	2.18	0.44
2:I:31:LEU:HB2	2:I:72:VAL:HG22	2.00	0.44
2:I:77:ALA:O	2:I:139:ALA:HB1	2.18	0.44
2:I:186:LEU:HD11	2:I:255:LEU:HD23	1.99	0.44
2:I:743:TRP:CD2	2:I:761:ILE:HD11	2.52	0.44
2:I:818:THR:HA	2:I:829:LYS:HE2	1.99	0.44
2:I:1028:VAL:HG13	2:I:1030:PHE:CE2	2.52	0.44
2:I:1346:MET:CB	2:I:1427:MET:HE1	2.42	0.44
2:I:1934:ARG:H	2:I:1934:ARG:HG3	1.62	0.44
2:J:501:TRP:CD1	2:J:501:TRP:C	2.95	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:J:1340:LYS:HG3	2:L:376:ARG:HH21	1.76	0.44
2:K:60:THR:HG22	2:K:62:GLU:HG3	1.99	0.44
2:K:182:TYR:CD1	2:K:182:TYR:C	2.95	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:676:LEU:HD13	2:K:676:LEU:C	2.43	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:L:80:ILE:HG12	2:L:105:ILE:CG2	2.47	0.44
2:L:416:GLN:C	2:L:418:ARG:H	2.24	0.44
2:L:596:ARG:HD3	2:L:1119:ARG:HG3	2.00	0.44
2:L:716:PHE:HD1	2:L:727:VAL:CG1	2.30	0.44
2:L:1047:LEU:HD12	2:L:1047:LEU:H	1.82	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
1:A:330:LYS:HG3	1:A:333:ARG:HH12	1.79	0.44
1:A:524:LYS:O	1:A:525:GLN:C	2.60	0.44
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:B:56:MET:HE2	2:H:1926:GLN:OE1	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1102:ILE:HD11	1:B:1148:LEU:HG	1.98	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:C:1078:ILE:HA	1:C:1162:GLY:HA2	2.00	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: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: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: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
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:1639:PRO:O	1:F:1640:LYS:C	2.61	0.44
2:G:489:GLU:O	2:G:492:ARG:HG2	2.17	0.44
2:G:608:MET:O	2:G:609:THR:C	2.61	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:1851:MET:HE1	2:G:1859:VAL:HG21	1.99	0.44
2:G:2008:THR:HG22	2:G:2011:ARG:HE	1.83	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: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:I:174:GLY:H	2:I:517:GLY:CA	2.30	0.44
2:I:709:LEU:HD23	2:I:709:LEU:N	2.28	0.44
2:I:1163:LEU:HD12	2:I:1163:LEU:HA	1.83	0.44
2:I:1382:MET:HE2	2:I:1382:MET:HB3	1.79	0.44
2:I:1515:LEU:CB	2:I:1525:VAL:HG21	2.47	0.44
2:J:48:LEU:HB2	2:J:79:TYR:OH	2.18	0.44
2:J:200:LEU:HD21	2:J:262:MET:HE2	1.99	0.44
2:J:865:ILE:HG22	2:J:867:LYS:HG3	2.00	0.44
2:J:1116:PHE:O	2:J:1270:GLY:HA3	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1234:ILE:HG22	2:J:1242:ILE:HG22	1.99	0.44
2:J:1346:MET:CE	2:J:1617:ARG:HH21	2.30	0.44
2:J:1678:VAL:O	2:J:1679:LEU:HD23	2.17	0.44
2:K:38:PRO:HD2	2:K:104:LEU:CD1	2.45	0.44
2:K:52:PHE:HB2	2:K:82:PHE:CE2	2.52	0.44
2:K:382:LEU:HG	2:K:390:VAL:HB	2.00	0.44
2:K:506:VAL:O	2:K:506:VAL:CG1	2.63	0.44
2:K:617:PHE:CD1	2:K:822:ALA:CA	3.01	0.44
2:K:718:PRO:HG2	2:K:741:LEU:CD1	2.48	0.44
2:K:866:HIS:HB3	2:K:1068:GLN:O	2.18	0.44
2:K:1945:ILE:O	2:K:1949:GLN:HB2	2.18	0.44
2:L:26:LEU:HD23	2:L:49:LYS:HG3	2.00	0.44
2:L:411:PRO:HD2	2:L:414:LEU:HD11	1.98	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
2:L:1028:VAL:HA	2:L:1029:PRO:HD3	1.73	0.44
2:L:1179:GLU:OE1	2:L:1179:GLU:N	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
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:A:623:PHE:O	1:A:624:GLY:C	2.60	0.44
1:A:904:GLY:HA2	1:A:906:GLN:CD	2.42	0.44
1:A:1321:MET:HE2	1:A:1321:MET:HB3	1.92	0.44
1:A:1491:ASN:H	1:A:1491:ASN:ND2	2.14	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:1491:ASN:ND2	1:B:1491:ASN:N	2.65	0.44
1:B:1523:HIS:O	1:B:1524:GLY:C	2.61	0.44
1:C:472:GLN:HA	1:C:472:GLN:HE21	1.82	0.44
1:C:667:ALA:O	1:C:671:GLN:HG3	2.18	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: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
1:D:1102:ILE:H	1:D:1102:ILE:HG13	1.64	0.44
1:D:1321:MET:HE2	1:D:1321:MET:HB3	1.70	0.44
1:E:29:ILE:HG12	2:K:1921:ASN:C	2.43	0.44
1:E:445:LEU:O	1:E:448:MET:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:498:THR:CG2	1:E:858:LEU:HA	2.42	0.44
1:E:759:ILE:HG12	1:E:813:LEU:HD23	2.00	0.44
1:E:1011:ARG:HD2	1:E:1011:ARG:C	2.42	0.44
1:E:1160:VAL:HG11	1:E:1337:PRO:HB3	1.99	0.44
1:F:533:SER:O	1:F:611:THR:HG22	2.18	0.44
1:F:848:ARG:O	1:F:849:GLY:C	2.60	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
2:G:248:VAL:O	2:G:252:LEU:HB2	2.18	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:2039:TYR:CD2	2:G:2039:TYR:C	2.95	0.44
2:H:76:VAL:HG11	2:H:109:PHE:HD1	1.83	0.44
2:H:113:PHE:N	2:H:113:PHE:CD1	2.85	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:617:PHE:HE1	2:H:819:ALA:HB3	1.83	0.44
2:H:1031:VAL:HG22	2:H:1041:TRP:HB3	1.98	0.44
2:H:1331:THR:HG22	2:H:1331:THR:O	2.18	0.44
2:I:223:LYS:HB3	2:I:242:TYR:CZ	2.53	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: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:914:TRP:C	2:J:916:GLY:H	2.26	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:J:1299:VAL:HG13	2:J:1301:PHE:CE1	2.53	0.44
2:J:1905:GLU:O	2:J:1908:ALA:HB3	2.17	0.44
2:K:169:ILE:HG22	2:K:279:PHE:CD2	2.51	0.44
2:K:173:PHE:CE2	2:K:516:PHE:HB2	2.53	0.44
2:K:381:SER:OG	2:K:392:THR:HG23	2.16	0.44
2:K:937:ARG:HG3	2:K:941:LEU:HD12	1.99	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:L:858:LEU:CD2	2:L:864:PRO:HA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:474:ILE:O	1:A:478:LYS:HG3	2.17	0.44
1:A:1577:CYS:SG	1:A:1622:VAL:HG12	2.58	0.44
1:B:23:ALA:HA	2:H:2007:SER:O	2.17	0.44
1:C:56:MET:HE3	1:C:56:MET:HB2	1.91	0.44
1:C:1102:ILE:HD11	1:C:1148:LEU:HG	2.00	0.44
1:C:1171:ARG:HD3	1:C:1177:GLU:OE1	2.17	0.44
1:C:1177:GLU:O	1:C:1180:ILE:HB	2.17	0.44
1:C:1674:ILE:HG22	1:C:1675:ASN:OD1	2.18	0.44
1:D:526:MET:HE3	1:D:614:PHE:HB2	1.99	0.44
1:E:491:SER:O	1:E:493:PRO:HD3	2.18	0.44
1:E:960:ARG:HG3	1:E:960:ARG:NH1	2.33	0.44
1:F:24:MET:HE3	1:F:24:MET:HB3	1.75	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
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
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:G:1443:GLU:HA	2:G:1443:GLU:OE1	2.18	0.44
2:G:1551:ILE:HG22	2:G:1552:GLU:N	2.33	0.44
2:G:1759:GLN:HE22	2:G:1762:MET:HE2	1.83	0.44
2:G:2031:ASP:C	2:G:2033:SER:N	2.72	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:H9	4:I:2101:FMN:H1'2	1.90	0.44
2:J:173:PHE:CE2	2:J:516:PHE:HB2	2.53	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:HD22	2:J:729:ASN:N	2.16	0.44
2:J:787:ASP:C	2:J:790:PRO:HD2	2.43	0.44
2:J:1305:LEU:HD23	2:J:1366:ILE:HD11	1.99	0.44
2:J:1977:ARG:CD	2:J:1978:LYS:HG3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:196:PHE:HD2	2:K:196:PHE:N	2.16	0.44
2:K:461:PRO:HB3	2:K:483:ASP:O	2.17	0.44
2:K:479:ARG:C	2:K:481:LEU:H	2.26	0.44
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: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
2:L:781:GLY:CA	2:L:1071:VAL:HG13	2.45	0.44
2:L:1031:VAL:HG22	2:L:1041:TRP:HB3	2.00	0.44
2:L:1594:ARG:NH1	2:L:1595:VAL:HG13	2.33	0.44
1:A:407:ARG:H	1:A:407:ARG:HG3	1.59	0.44
1:A:484:PRO:HA	1:A:485:PRO:HD3	1.80	0.44
1:A:526:MET:CE	1:A:614:PHE:HB3	2.48	0.44
1:B:535:TYR:CE1	1:B:610:GLU:HB3	2.53	0.44
1:B:1179:ILE:O	1:B:1183:VAL:HG23	2.18	0.44
1:D:28:TRP:HE1	1:D:32:GLN:NE2	2.16	0.44
1:D:47:ILE:CD1	2:J:1818:PHE:HD1	2.31	0.44
1:D:1280:CYS:HB2	1:D:1626:GLY:HA2	2.00	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
1:E:1079:ARG:HG2	1:E:1079:ARG:NH1	2.14	0.44
1:E:1470:ARG:HD3	1:E:1470:ARG:HA	1.77	0.44
1:E:1494:TRP:CG	1:E:1505:GLY:HA3	2.53	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:G:835:ALA:HB3	2:G:1073:ALA:HB1	2.00	0.44
2:G:938:MET:HE2	2:G:959:THR:HA	2.00	0.44
2:G:1000:TYR:HA	2:G:1001:PRO:HD2	1.69	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: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:H:1149:ALA:HA	2:H:1150:PRO:HD3	1.89	0.44
2:H:1332:GLY:C	2:H:1334:ALA:H	2.26	0.44
2:I:31:LEU:HD13	2:I:75:LEU:HG	1.99	0.44
2:I:914:TRP:C	2:I:916:GLY:H	2.25	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
2:I:1977:ARG:HD3	2:I:1978:LYS:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:J:1865:LEU:O	2:J:1869:VAL:HG22	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: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:L:174:GLY:HA2	2:L:524:ILE:CG1	2.48	0.44
2:L:187:ARG:NH2	2:L:234:PRO:HA	2.33	0.44
2:L:226:ASP:OD2	2:L:229:GLN:HB2	2.18	0.44
2:L:479:ARG:C	2:L:481:LEU:H	2.26	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
2:L:938:MET:HE2	2:L:959:THR:HA	1.99	0.44
2:L:1871:VAL:HG21	2:L:2003:VAL:HA	2.00	0.44
1:A:30:GLU:CB	2:G:2045:ALA:HB1	2.48	0.43
1:A:427:ARG:O	1:A:430:VAL:HB	2.17	0.43
1:A:715:ASN:ND2	3:A:1901:NAP:H62A	2.16	0.43
1:A:1057:GLU:HA	1:A:1058:PRO:HD3	1.87	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: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:962:ASN:HD22	2:I:1006:GLN:HE22	1.64	0.43
1:C:1102:ILE:HD13	1:C:1106:LEU:CD2	2.48	0.43
1:D:68:TYR:CD2	1:D:68:TYR:C	2.97	0.43
1:D:898:PHE:HD2	1:D:899:ALA:N	2.16	0.43
1:D:1102:ILE:CG2	1:D:1104:GLN:HG2	2.47	0.43
1:E:532:ILE:HG23	1:E:907:PHE:CB	2.46	0.43
1:E:626:TRP:CD2	1:E:898:PHE:CD1	3.06	0.43
1:E:1042:LEU:O	1:E:1043:LYS:HB2	2.18	0.43
1:F:452:ILE:HG22	1:F:453:ASP:N	2.33	0.43
1:F:889:VAL:O	1:F:893:GLN:HG3	2.17	0.43
1:F:1050:TRP:HA	1:F:1050:TRP:HE3	1.82	0.43
1:F:1507:LEU:HA	1:F:1507:LEU:HD23	1.84	0.43
1:F:1512:LEU:HD21	1:F:1641:TYR:CE2	2.53	0.43
2:G:48:LEU:H	2:G:48:LEU:HG	1.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:582:LYS:HG3	2:G:1110:VAL:CG1	2.48	0.43
2:G:618:VAL:HG11	2:G:648:ILE:HD11	2.00	0.43
2:G:1871:VAL:HG21	2:G:2003:VAL:HA	2.00	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
2:H:611:THR:HG22	2:H:1051:GLU:OE2	2.18	0.43
2:H:1332:GLY:C	2:H:1334:ALA:N	2.76	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: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: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: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:J:1288:PHE:CD2	2:J:1288:PHE:C	2.96	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:2050:ILE:O	2:J:2050:ILE:HG12	2.18	0.43
2:K:272:PRO:HG2	2:K:300:THR:O	2.18	0.43
2:K:911:GLN:NE2	2:K:1065:CYS:H	2.16	0.43
2:K:980:LEU:HB2	2:K:996:ILE:CD1	2.48	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:1851:MET:HE1	2:K:1859:VAL:HG21	2.00	0.43
2:K:2005:PHE:CA	2:K:2010:LEU:HD11	2.47	0.43
2:L:882:LYS:HD3	2:L:898:ARG:CZ	2.48	0.43
2:L:1103:TYR:C	2:L:1104:ASP:OD1	2.60	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
2:L:1972:ILE:H	2:L:1972:ILE:HG13	1.44	0.43
1:A:28:TRP:HE1	1:A:32:GLN:NE2	2.16	0.43
1:A:848:ARG:O	1:A:849:GLY:C	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:755:GLU:C	1:B:757:ASP:N	2.76	0.43
1:B:883:LEU:N	1:B:883:LEU:HD23	2.33	0.43
1:B:1280:CYS:HB2	1:B:1626:GLY:HA2	2.00	0.43
1:B:1338:GLY:C	1:B:1340:MET:N	2.75	0.43
1:B:1564:HIS:ND1	1:B:1564:HIS:C	2.76	0.43
1:B:1623:THR:HG22	1:B:1633:GLN:HB2	2.00	0.43
1:B:1674:ILE:CD1	2:H:1011:GLN:HG3	2.41	0.43
1:C:12:THR:HG21	2:I:2066:LYS:HD3	1.99	0.43
1:C:29:ILE:HG13	2:I:1920:TYR:O	2.18	0.43
1:C:524:LYS:O	1:C:525:GLN:C	2.61	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:D:11:TYR:CG	2:J:2027:LYS:HG2	2.53	0.43
1:D:50:SER:HB2	1:D:52:THR:HG23	2.00	0.43
1:D:414:TYR:CE2	1:D:418:ILE:CD1	3.01	0.43
1:D:916:THR:HA	1:D:919:ARG:HB2	2.00	0.43
1:D:1307:PHE:HB3	1:D:1357:CYS:HB2	1.98	0.43
1:E:632:LEU:O	1:E:633:THR:C	2.61	0.43
1:E:1219:GLY:CA	1:E:1272:PRO:HD2	2.48	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
1:F:1005:TRP:HE1	1:F:1561:LEU:CD2	2.31	0.43
1:F:1068:TYR:O	1:F:1069:GLU:C	2.60	0.43
1:F:1170:ALA:HB3	1:F:1188:LEU:HD13	2.00	0.43
2:G:938:MET:HE2	2:G:959:THR:CG2	2.49	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: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
2:H:790:PRO:HA	2:H:795:SER:OG	2.18	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:HD12	2:H:1951:ILE:H	1.83	0.43
2:H:2021:LEU:HD22	2:H:2025:ILE:HD11	2.00	0.43
2:I:235:GLU:CD	2:I:235:GLU:H	2.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD23	2:I:1810:LEU:HA	1.89	0.43
2:J:44:GLN:O	2:J:48:LEU:HG	2.18	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:1883:MET:HB2	2:J:2001:ILE:HD12	1.98	0.43
2:K:138:ARG:HB3	2:K:192:THR:HG23	2.00	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:K:875:PHE:C	2:K:878:GLU:HB2	2.44	0.43
2:K:1293:TRP:CE2	2:K:1354:TRP:HZ2	2.36	0.43
2:K:1382:MET:HG2	2:K:1427:MET:HE2	2.01	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:2073:ASN:O	2:K:2076:LYS:N	2.51	0.43
2:L:790:PRO:HA	2:L:795:SER:OG	2.18	0.43
2:L:912:LYS:HG2	2:L:1029:PRO:C	2.43	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
1:A:27:ARG:H	1:A:27:ARG:HG2	1.38	0.43
1:B:340:LEU:HD12	1:E:347:LEU:HD12	2.00	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:498:THR:CG2	1:B:858:LEU:HA	2.43	0.43
1:B:533:SER:O	1:B:611:THR:HG22	2.18	0.43
1:B:1007:ASN:ND2	1:B:1031:MET:HE1	2.34	0.43
1:B:1157:ASP:O	1:B:1327:ALA:HB3	2.17	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: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:E:427:ARG:HH11	1:E:492:ILE:HG12	1.82	0.43
1:E:526:MET:HE3	1:E:614:PHE:CB	2.48	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:60:THR:HG22	2:G:62:GLU:HG3	2.00	0.43
2:G:465:LEU:HB2	2:G:479:ARG:CG	2.48	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:G:1102:LEU:HD23	2:G:1102:LEU:HA	1.78	0.43
2:G:1491:ARG:C	2:G:1492:LEU:HD23	2.44	0.43
2:H:196:PHE:N	2:H:196:PHE:CD2	2.85	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:2031:ASP:C	2:H:2033:SER:N	2.74	0.43
2:I:196:PHE:N	2:I:196:PHE:CD2	2.86	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:1179:GLU:OE1	2:I:1179:GLU:N	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:2009:PHE:HD2	2:I:2009:PHE:O	2.00	0.43
2:J:196:PHE:HD2	2:J:196:PHE:N	2.15	0.43
2:J:290:VAL:HG11	2:J:315:LEU:CD1	2.48	0.43
2:J:441:SER:C	2:J:443:TYR:H	2.26	0.43
2:J:743:TRP:CZ2	2:J:757:PHE:HA	2.50	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:K:45:ALA:HB2	2:K:101:VAL:HG22	2.01	0.43
2:K:134:ILE:HG13	2:K:545:ILE:CD1	2.48	0.43
2:K:245:SER:HA	2:K:436:THR:OG1	2.19	0.43
2:K:821:GLU:HB2	2:K:1083:ILE:HD11	1.99	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:L:887:ASP:O	2:L:888:ARG:C	2.60	0.43
2:L:1351:VAL:CG1	2:L:1352:VAL:N	2.81	0.43
2:L:1951:ILE:H	2:L:1951:ILE:HD12	1.83	0.43
1:A:68:TYR:C	1:A:68:TYR:CD2	2.97	0.43
1:A:79:LEU:HD12	1:A:88:ILE:HD13	2.00	0.43
1:A:379:HIS:HE1	1:F:387:ILE:HD13	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:491:SER:O	1:A:493:PRO:HD3	2.19	0.43
1:A:1493:PHE:CE2	1:A:1509:THR:HG22	2.53	0.43
1:A:1700:GLN:O	1:A:1701:SER:C	2.61	0.43
1:B:4:GLU:H	1:B:4:GLU:HG3	1.54	0.43
1:B:498:THR:HG22	1:B:508:TYR:CD1	2.53	0.43
1:B:657:MET:HE1	1:B:666:GLY:O	2.18	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: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:C:1258:MET:HG2	1:C:1307:PHE:CZ	2.53	0.43
1:D:418:ILE:O	1:D:418:ILE:HG22	2.18	0.43
1:D:883:LEU:N	1:D:883:LEU:HD23	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:D:1218:VAL:HG13	1:D:1301:VAL:CG1	2.47	0.43
1:D:1303:LEU:HD23	1:D:1303:LEU:HA	1.61	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:E:1007:ASN:ND2	1:E:1031:MET:HE1	2.34	0.43
1:E:1094:LYS:HE3	1:E:1316:TYR:CG	2.52	0.43
1:F:30:GLU:HB2	2:L:2045:ALA:CB	2.48	0.43
1:F:662:ALA:HA	1:F:694:TYR:CZ	2.54	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:796:TRP:CZ2	2:G:805:MET:HE2	2.53	0.43
2:G:838:VAL:HG12	2:G:839:ASP:N	2.33	0.43
2:G:990:TYR:N	2:G:991:PRO:CD	2.81	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:1674:THR:C	2:G:1676:GLU:N	2.77	0.43
2:H:43:PHE:CB	2:I:22:ARG:HE	2.30	0.43
2:H:325:ALA:C	2:H:327:PRO:HD3	2.43	0.43
2:H:827:GLN:O	2:H:830:GLN:HB3	2.18	0.43
2:H:1366:ILE:HG22	2:H:1366:ILE:O	2.18	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: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: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: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:907:ASN:HA	2:J:913:VAL:HG13	1.99	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:1803:THR:C	2:J:1805:PHE:N	2.76	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: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:K:1047:LEU:HD11	3:K:2102:NAP:O1N	2.18	0.43
2:K:1314:GLU:O	2:K:1394:VAL:HA	2.18	0.43
2:K:1324:PHE:HA	2:K:1583:VAL:HG11	2.00	0.43
2:K:1361:ILE:HG22	2:K:1435:TYR:OH	2.18	0.43
2:L:828:ALA:O	2:L:832:ILE:HG13	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:1637:VAL:CG1	2:L:1679:LEU:HD13	2.34	0.43
1:A:16:GLU:OE2	2:G:2066:LYS:HD2	2.18	0.43
1:A:352:ARG:HE	1:A:352:ARG:HB2	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:A:960:ARG:HH11	2:G:968:GLU:HB3	1.84	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:B:632:LEU:C	1:B:634:GLY:N	2.75	0.43
1:B:1050:TRP:HA	1:B:1050:TRP:HE3	1.84	0.43
1:B:1078:ILE:HG23	1:B:1352:MET:CE	2.45	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:34:VAL:HG11	2:I:2047:PRO:HD3	2.01	0.43
1:C:50:SER:HB2	1:C:52:THR:HG23	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:452:ILE:CD1	1:D:467:LYS:HA	2.48	0.43
1:D:472:GLN:HE21	1:D:472:GLN:HA	1.83	0.43
1:D:755:GLU:C	1:D:757:ASP:N	2.72	0.43
1:D:914:LEU:HD12	1:D:914:LEU:C	2.44	0.43
1:D:1514:ILE:H	1:D:1514:ILE:HG13	1.34	0.43
1:E:88:ILE:CG2	2:K:1821:MET:HE2	2.43	0.43
1:E:396:ALA:C	1:E:397:ARG:HD3	2.43	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:E:1617:ILE:N	1:E:1617:ILE:CD1	2.78	0.43
1:F:458:GLU:CD	1:F:458:GLU:H	2.26	0.43
1:F:667:ALA:O	1:F:670:LEU:HB3	2.19	0.43
1:F:1162:GLY:O	1:F:1354:SER:HA	2.18	0.43
2:G:330:SER:N	2:H:1331:THR:HG22	2.33	0.43
2:G:1048:TRP:NE1	2:G:1049:GLN:HG2	2.31	0.43
2:G:1323:ASP:C	2:G:1583:VAL:HG11	2.44	0.43
2:G:1491:ARG:O	2:G:1492:LEU:HD23	2.19	0.43
2:H:123:ALA:O	2:H:126:VAL:HG23	2.18	0.43
2:H:349:PRO:O	2:H:392:THR:HA	2.19	0.43
2:H:763:LEU:HD12	2:H:763:LEU:HA	1.86	0.43
2:H:1873:ARG:NH1	2:H:2002:ASP:CB	2.81	0.43
2:I:113:PHE:N	2:I:113:PHE:CD1	2.86	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:1353:GLY:HA2	2:I:1397:THR:HG21	2.00	0.43
2:I:1356:ALA:HB3	2:I:1397:THR:CG2	2.47	0.43
2:I:1481:ILE:HD12	2:I:1515:LEU:CD2	2.49	0.43
2:J:77:ALA:O	2:J:139:ALA:HB1	2.19	0.43
2:J:460:ILE:O	2:J:486:ILE:N	2.50	0.43
2:J:463:SER:C	2:J:465:LEU:H	2.24	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
2:J:712:ARG:O	2:J:738:PRO:HG2	2.19	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:HD22	2:J:1919:ASN:HA	1.59	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:617:PHE:HD1	2:K:821:GLU:C	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:L:611:THR:HG22	2:L:1051:GLU:OE2	2.19	0.43
1:A:577:LEU:HB3	1:A:579:MET:HE2	2.01	0.43
1:A:1522:PHE:HB2	1:A:1557:PHE:CD1	2.53	0.43
1:B:623:PHE:O	1:B:624:GLY:C	2.61	0.43
1:B:1372:GLY:O	1:B:1661:ARG:HD2	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:C:904:GLY:HA2	1:C:906:GLN:CD	2.43	0.43
1:C:1495:ARG:O	1:C:1496:ARG:HB3	2.18	0.43
1:C:1698:ASN:OD1	1:C:1698:ASN:C	2.61	0.43
1:D:458:GLU:CD	1:D:458:GLU:H	2.26	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: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: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: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:755:GLU:C	1:F:757:ASP:N	2.75	0.43
1:F:1686:PRO:HB2	1:F:1713:PHE:CD1	2.54	0.43
2:G:182:TYR:CD1	2:G:183:PHE:N	2.87	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: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: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:H:60:THR:HG22	2:H:62:GLU:HG3	2.00	0.43
2:H:560:ASP:HB3	2:H:565:ALA:HB1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1113:ILE:HG22	2:H:1114:GLU:N	2.34	0.43
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:I:95:HIS:CB	2:I:96:PRO:HD3	2.49	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: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:1751:GLY:O	2:I:1752:PRO:C	2.60	0.43
2:I:2052:LYS:H	2:I:2052:LYS:HG2	1.44	0.43
2:J:80:ILE:HG12	2:J:105:ILE:HG22	2.01	0.43
2:J:1332:GLY:C	2:J:1334:ALA:N	2.77	0.43
2:J:1759:GLN:HE22	2:J:1762:MET:HE2	1.83	0.43
2:J:2044:THR:HG21	2:J:2054:TYR:OH	2.18	0.43
2:K:988:GLU:HA	2:K:989:PRO:HD3	1.73	0.43
2:K:1127:GLU:HA	2:K:1128:PRO:HD3	1.81	0.43
2:L:501:TRP:CD1	2:L:501:TRP:C	2.94	0.43
2:L:787:ASP:C	2:L:790:PRO:HD2	2.44	0.43
2:L:797:SER:O	2:L:802:TYR:HB2	2.19	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
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:612:ILE:CD1	1:F:579:MET:HE2	2.47	0.43
1:A:756:ILE:HG22	1:F:827:ARG:NH1	2.34	0.43
1:A:844:ILE:HD12	1:A:844:ILE:N	2.34	0.43
1:A:960:ARG:HG3	1:A:960:ARG:NH1	2.34	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:B:527:ALA:HB2	1:B:637:LEU:HD22	2.01	0.43
1:B:613:PRO:C	1:B:615:LEU:N	2.76	0.43
1:B:985:ARG:O	1:B:987:MET:HG2	2.19	0.43
1:B:1685:ALA:HB1	1:B:1686:PRO:CD	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:405:TRP:CH2	1:C:1609:SER:HB3	2.54	0.43
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:967:PHE:CD2	1:C:1374:PRO:HG3	2.52	0.43
1:C:967:PHE:HB3	1:C:968:PRO:CD	2.49	0.43
1:C:968:PRO:CD	1:C:1374:PRO:HB3	2.49	0.43
1:C:1148:LEU:CD2	1:F:1150:ILE:HG12	2.49	0.43
1:D:557:ARG:HG3	1:D:557:ARG:NH1	2.01	0.43
1:E:46:GLU:HB3	1:E:80:CYS:HA	2.01	0.43
1:E:458:GLU:H	1:E:458:GLU:CD	2.27	0.43
1:E:1050:TRP:HA	1:E:1050:TRP:HE3	1.84	0.43
1:E:1363:MET:HE3	1:E:1363:MET:HB2	1.70	0.43
1:E:1393:VAL:N	1:E:1394:PRO:HD3	2.33	0.43
1:F:11:TYR:CD1	2:L:2027:LYS:HG2	2.54	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
1:F:1102:ILE:H	1:F:1102:ILE:HG13	1.66	0.43
1:F:1338:GLY:C	1:F:1340:MET:N	2.72	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
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: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:2044:THR:C	2:G:2046:LYS:H	2.27	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:H:1028:VAL:HG13	2:H:1030:PHE:CE2	2.54	0.43
2:H:1265:TYR:HE1	2:H:1267:PRO:HG3	1.76	0.43
2:I:123:ALA:O	2:I:126:VAL:HG23	2.18	0.43
2:I:578:PRO:HG3	2:I:792:LEU:O	2.18	0.43
2:I:690:LEU:HD22	2:I:691:THR:N	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1961:SER:O	2:I:1965:VAL:HG22	2.17	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: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:1751:GLY:O	2:J:1752:PRO:C	2.62	0.43
2:J:1764:MET:O	2:J:1780:ILE:HG13	2.18	0.43
2:J:1903:VAL:HG13	2:J:1942:VAL:HG11	2.01	0.43
2:K:80:ILE:HG12	2:K:105:ILE:CG2	2.49	0.43
2:K:174:GLY:HA2	2:K:524:ILE:HG12	2.01	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: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:1803:THR:C	2:K:1805:PHE:N	2.74	0.43
2:K:2044:THR:HG21	2:K:2054:TYR:CZ	2.53	0.43
2:L:256:VAL:O	2:L:260:HIS:HD2	2.01	0.43
2:L:594:MET:SD	2:L:809:GLY:HA3	2.58	0.43
2:L:741:LEU:O	2:L:741:LEU:CG	2.64	0.43
2:L:1553:GLN:HB3	2:L:1554:PRO:CD	2.48	0.43
2:L:1783:GLU:H	2:L:1783:GLU:CD	2.27	0.43
1:A:1051:VAL:HG13	1:A:1057:GLU:O	2.19	0.43
1:A:1523:HIS:O	1:A:1524:GLY:C	2.62	0.43
1:B:746:PHE:CD2	3:B:1901:NAP:H4D	2.53	0.43
1:B:1011:ARG:NH1	1:B:1012:TRP:HA	2.33	0.43
1:C:21:GLN:HE22	2:I:1841:TYR:HE1	1.66	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: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:D:452:ILE:HD13	1:D:452:ILE:HA	1.87	0.43
1:D:662:ALA:HA	1:D:694:TYR:CZ	2.53	0.43
1:D:1217:GLU:O	1:D:1299:ALA:HB1	2.19	0.43
1:E:4:GLU:H	1:E:4:GLU:HG3	1.53	0.43
1:E:421:ARG:HH22	1:E:1613:LYS:CG	2.31	0.43
1:F:997:THR:CG2	1:F:1361:VAL:HG22	2.49	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:G:762:LEU:HD23	2:G:805:MET:HE1	2.01	0.43
2:G:764:MET:O	2:G:765:TYR:C	2.61	0.43
2:G:928:ASP:C	2:G:1007:LEU:HD23	2.44	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:1957:MET:HE3	2:G:1962:LEU:CD2	2.48	0.43
2:G:1961:SER:O	2:G:1965:VAL:HG22	2.19	0.43
2:H:43:PHE:HB2	2:I:22:ARG:CZ	2.47	0.43
2:H:196:PHE:HD2	2:H:196:PHE:N	2.16	0.43
2:H:411:PRO:HD2	2:H:414:LEU:HD11	2.00	0.43
2:H:942:MET:HE3	2:H:1029:PRO:HD3	2.01	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:2050:ILE:O	2:H:2050:ILE:HG12	2.19	0.43
2:I:22:ARG:HD2	2:I:39:THR:HA	2.00	0.43
2:I:704:GLU:HA	2:I:704:GLU:OE1	2.17	0.43
2:I:718:PRO:HG2	2:I:741:LEU:CD1	2.49	0.43
2:I:1047:LEU:HD12	2:I:1047:LEU:H	1.83	0.43
2:I:1804:GLN:CB	2:I:1861:PHE:HE1	2.32	0.43
2:J:187:ARG:NH2	2:J:234:PRO:HA	2.33	0.43
2:J:256:VAL:O	2:J:260:HIS:HD2	2.01	0.43
2:J:372:LEU:CD1	2:J:397:SER:HB2	2.49	0.43
2:J:382:LEU:HG	2:J:390:VAL:HB	2.00	0.43
2:J:700:GLU:HA	2:J:703:ASN:HB2	2.01	0.43
2:J:1481:ILE:O	2:J:1481:ILE:HG13	2.19	0.43
2:J:1914:LEU:O	2:J:1931:GLY:HA3	2.17	0.43
2:J:1920:TYR:HD2	2:J:1927:TYR:HE2	1.65	0.43
2:J:1945:ILE:HG22	2:J:1946:LEU:N	2.33	0.43
2:K:187:ARG:NH2	2:K:234:PRO:HA	2.33	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1521:GLU:OE2	2:K:2028:THR:CG2	2.67	0.43
2:K:1726:PHE:CE1	2:K:1857:VAL:HB	2.54	0.43
2:K:1920:TYR:HD2	2:K:1927:TYR:HE2	1.65	0.43
2:L:36:LEU:HD12	2:L:36:LEU:HA	1.90	0.43
2:L:311:ALA:O	2:L:314:LEU:HB3	2.18	0.43
2:L:838:VAL:HG12	2:L:839:ASP:N	2.33	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
1:A:40:ARG:HH21	1:A:74:VAL:HG22	1.83	0.43
1:A:1005:TRP:HE1	1:A:1561:LEU:HD22	1.81	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: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:C:22:PHE:O	2:I:2006:HIS:HA	2.18	0.43
1:C:401:SER:O	1:C:405:TRP:CD1	2.72	0.43
1:C:526:MET:HE3	1:C:614:PHE:CB	2.49	0.43
1:C:962:ASN:HB3	2:I:969:ARG:CD	2.48	0.43
1:C:1488:SER:HB2	1:F:1480:ARG:NH2	2.34	0.43
1:C:1523:HIS:O	1:C:1524:GLY:C	2.62	0.43
1:C:1617:ILE:N	1:C:1617:ILE:CD1	2.77	0.43
1:D:27:ARG:H	1:D:27:ARG:HG2	1.42	0.43
1:D:440:SER:HB3	1:D:481:LEU:CD2	2.40	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:E:1564:HIS:ND1	1:E:1564:HIS:C	2.77	0.43
1:F:756:ILE:HA	1:F:759:ILE:CD1	2.46	0.43
1:F:1288:ASP:OD2	1:F:1288:ASP:C	2.62	0.43
1:F:1525:THR:O	1:F:1526:SER:HB3	2.19	0.43
2:G:490:LEU:HD23	2:G:493:MET:SD	2.59	0.43
2:G:621:THR:OG1	2:G:1083:ILE:HD13	2.19	0.43
2:G:942:MET:HE2	2:G:955:LEU:CB	2.38	0.43
2:G:1551:ILE:CG2	2:G:1552:GLU:HG3	2.49	0.43
2:G:2044:THR:HG21	2:G:2054:TYR:CZ	2.54	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:60:THR:HG22	2:I:62:GLU:H	1.84	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:792:LEU:HD23	2:I:1094:HIS:ND1	2.33	0.43
2:I:1083:ILE:HG13	2:I:1083:ILE:H	1.51	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:1464:LEU:HD13	2:I:1464:LEU:C	2.44	0.43
2:I:1764:MET:O	2:I:1780:ILE:HG13	2.18	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: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:K:41:LEU:HD13	2:K:100:GLU:HB3	2.01	0.43
2:K:350:MET:SD	2:K:392:THR:CG2	3.07	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:1323:ASP:C	2:K:1583:VAL:HG11	2.44	0.43
2:K:1332:GLY:C	2:K:1334:ALA:N	2.76	0.43
2:K:1803:THR:O	2:K:1804:GLN:C	2.61	0.43
2:L:187:ARG:HH22	2:L:234:PRO:HA	1.84	0.43
2:L:350:MET:SD	2:L:392:THR:CG2	3.07	0.43
2:L:476:GLN:H	2:L:476:GLN:HG2	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:817:MET:HE2	2:L:817:MET:HB3	1.95	0.43
2:L:946:HIS:CE1	2:L:947:GLU:HG3	2.54	0.43
2:L:1645:PRO:O	2:L:1646:ASN:HB2	2.18	0.43
1:A:612:ILE:HG23	1:A:613:PRO:HD2	2.01	0.43
1:B:427:ARG:HD2	1:B:490:VAL:HG12	2.01	0.43
1:B:445:LEU:O	1:B:448:MET:HB2	2.19	0.43
1:B:546:ARG:NH1	1:B:631:LYS:HZ2	2.17	0.43
1:B:880:LEU:C	1:B:882:GLY:N	2.76	0.43
1:B:1154:LEU:HA	1:B:1154:LEU:HD23	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:C:28:TRP:HE1	1:C:32:GLN:NE2	2.16	0.43
1:C:40:ARG:HH21	1:C:74:VAL:HG22	1.83	0.43
1:C:526:MET:CE	1:C:615:LEU:HG	2.49	0.43
1:C:1274:LYS:HG2	1:F:1289:VAL:CG2	2.49	0.43
1:D:8:GLU:HG2	2:J:2027:LYS:HD3	2.01	0.43
1:D:968:PRO:HD2	1:D:1374:PRO:HB3	2.01	0.43
1:D:1078:ILE:HG23	1:D:1352:MET:CE	2.48	0.43
1:E:81:TYR:HE1	2:K:1821:MET:HE3	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1700:GLN:O	1:E:1701:SER:C	2.62	0.43
1:F:746:PHE:CD1	1:F:800:PRO:HG3	2.53	0.43
1:F:759:ILE:N	1:F:759:ILE:HD12	2.33	0.43
2:G:31:LEU:HB2	2:G:72:VAL:HG22	2.00	0.43
2:G:44:GLN:O	2:G:48:LEU:HG	2.19	0.43
2:G:245:SER:HA	2:G:436:THR:OG1	2.19	0.43
2:G:422:THR:HG23	2:G:844:GLU:CD	2.43	0.43
2:G:437:ALA:HA	2:G:438:PRO:HD3	1.76	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:H:226:ASP:OD2	2:H:229:GLN:HB2	2.19	0.43
2:H:463:SER:C	2:H:465:LEU:H	2.27	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:H:2058:VAL:O	2:H:2062:THR:HB	2.18	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:I:887:ASP:O	2:I:888:ARG:C	2.62	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:1957:MET:HE3	2:I:1962:LEU:CD2	2.49	0.43
2:J:608:MET:O	2:J:609:THR:C	2.62	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
2:K:174:GLY:HA3	2:K:518:PRO:HD2	2.01	0.43
2:K:357:THR:HG22	2:K:359:SER:H	1.83	0.43
2:K:463:SER:C	2:K:465:LEU:H	2.26	0.43
2:K:501:TRP:CZ2	2:K:528:THR:CG2	3.01	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: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:L:172:ILE:HG22	2:L:514:VAL:C	2.42	0.43
2:L:1749:PHE:CD2	2:L:1758:ARG:HB3	2.53	0.43
1:A:687:PHE:C	1:A:687:PHE:HD2	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:709:LEU:HD23	1:A:709:LEU:HA	1.82	0.42
1:A:1532:LYS:HA	1:A:1599:MET:HE1	2.01	0.42
1:A:1686:PRO:HD2	1:A:1687:TYR:CE2	2.54	0.42
1:B:524:LYS:O	1:B:525:GLN:C	2.62	0.42
1:B:551:LEU:HD11	1:E:565:GLN:HG3	2.01	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:B:1703:VAL:HG13	1:B:1712:LYS:O	2.19	0.42
1:C:996:VAL:HG11	1:C:1578:LEU:HD11	2.00	0.42
1:C:1161:ALA:HA	1:C:1352:MET:HE3	2.01	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:D:34:VAL:HG11	2:J:2047:PRO:HD3	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:N	1:D:1617:ILE:CD1	2.80	0.42
1:D:1652:GLU:O	1:D:1656:VAL:HG23	2.18	0.42
1:E:2:ARG:HB2	1:E:5:VAL:HB	2.01	0.42
1:E:1205:ASP:OD2	1:E:1207:TYR:HB2	2.19	0.42
1:F:1051:VAL:HG13	1:F:1057:GLU:O	2.19	0.42
1:F:1470:ARG:HA	1:F:1470:ARG:HD3	1.83	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: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:608:MET:O	2:H:609:THR:C	2.61	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: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: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:416:GLN:C	2:I:418:ARG:H	2.27	0.42
2:I:462:ALA:HB3	2:I:483:ASP:HA	2.00	0.42
2:J:462:ALA:HB3	2:J:483:ASP:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:1278:MET:HA	2:J:1281:ARG:HB2	2.00	0.42
2:J:1871:VAL:HG21	2:J:2004:PRO:HD3	2.01	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:525:GLY:O	2:K:529:ASN:HB2	2.19	0.42
2:K:585:VAL:O	2:K:585:VAL:HG12	2.18	0.42
2:K:652:ILE:O	2:K:654:PRO:HD3	2.19	0.42
2:K:1160:PHE:O	2:K:1164:ILE:HG13	2.18	0.42
2:L:41:LEU:HD13	2:L:100:GLU:HB3	2.01	0.42
2:L:463:SER:C	2:L:465:LEU:H	2.25	0.42
2:L:685:VAL:HA	2:L:686:PRO:HD3	1.61	0.42
2:L:1602:LEU:HD12	2:L:1602:LEU:HA	1.78	0.42
2:L:2052:LYS:H	2:L:2052:LYS:HG2	1.42	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: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:B:352:ARG:HE	1:B:352:ARG:HB2	1.58	0.42
1:B:890:ASN:OD1	2:K:1755:LYS:HE2	2.19	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:C:27:ARG:H	1:C:27:ARG:HG2	1.40	0.42
1:C:430:VAL:HG12	1:C:434:ILE:HD11	2.00	0.42
1:C:1599:MET:HA	1:C:1602:PHE:HD2	1.83	0.42
1:D:11:TYR:CD1	2:J:2027:LYS:HG2	2.54	0.42
1:D:340:LEU:O	1:D:340:LEU:HD23	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:963:LEU:HD23	1:D:1023:GLU:HB3	2.00	0.42
1:D:1338:GLY:C	1:D:1340:MET:N	2.77	0.42
1:D:1522:PHE:CD2	1:D:1534:GLU:HB3	2.54	0.42
1:E:24:MET:HB3	1:E:24:MET:HE3	1.74	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:1103:TYR:C	2:G:1104:ASP:OD1	2.62	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:H:1009:ASN:HD22	2:H:1009:ASN:HA	1.53	0.42
2:H:1499:LYS:CG	2:H:1500:ASN:N	2.80	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:I:1093:ASP:O	2:I:1097:PHE:CD1	2.71	0.42
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:J:26:LEU:HD23	2:J:49:LYS:HG3	2.01	0.42
2:J:205:ALA:O	2:J:209:GLN:HG3	2.19	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: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: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:K:1180:VAL:CG1	2:K:1188:GLN:H	2.29	0.42
2:K:1346:MET:CE	2:K:1617:ARG:NH2	2.72	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:H	1.84	0.42
2:K:1783:GLU:CD	2:K:1783:GLU:H	2.26	0.42
2:K:1795:SER:CB	2:K:1799:LEU:HD12	2.47	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
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:1346:MET:HE2	2:L:1346:MET:HB3	1.81	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
1:A:827:ARG:NE	1:F:816:GLU:OE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:905:LEU:C	1:A:907:PHE:H	2.27	0.42
1:A:998:GLY:CA	1:A:1361:VAL:HG13	2.32	0.42
1:B:968:PRO:HG3	1:B:1376:TYR:CE1	2.54	0.42
1:B:1674:ILE:HG22	1:B:1675:ASN:OD1	2.19	0.42
1:C:452:ILE:HD13	1:C:452:ILE:HA	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:C:1078:ILE:CG2	1:C:1352:MET:HE2	2.49	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:E:633:THR:O	1:E:637:LEU:HB2	2.20	0.42
1:F:443:LEU:HD12	1:F:443:LEU:H	1.84	0.42
1:F:449:GLN:O	1:F:450:TYR:C	2.62	0.42
1:F:612:ILE:HD12	1:F:907:PHE:CZ	2.38	0.42
1:F:1154:LEU:HA	1:F:1154:LEU:HD23	1.72	0.42
2:G:174:GLY:HA3	2:G:518:PRO:HD2	2.02	0.42
2:G:276:LEU:O	2:G:467:ILE:CD1	2.67	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: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: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:876:TRP:C	2:H:876:TRP:HD1	2.22	0.42
2:H:942:MET:O	2:H:951:ILE:HG13	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:1464:LEU:HD13	2:H:1464:LEU:C	2.45	0.42
2:H:1470:LYS:HA	2:H:1470:LYS:HD3	1.90	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:I:1102:LEU:HD23	2:I:1102:LEU:HA	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1910:VAL:HG13	2:I:1974:GLN:HE22	1.84	0.42
2:J:914:TRP:CD1	2:J:916:GLY:N	2.87	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:K:221:TYR:N	2:K:222:PRO:HD3	2.33	0.42
2:K:595:SER:HB3	2:K:602:PRO:HD3	2.00	0.42
2:K:604:MET:HE3	2:K:811:MET:CB	2.49	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
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:1701:GLU:N	2:K:1704:MET:HE3	2.32	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:L:31:LEU:HD13	2:L:75:LEU:HG	2.00	0.42
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
1:A:45:VAL:HB	2:G:1692:TYR:HD2	1.84	0.42
1:A:363:GLU:O	1:A:366:LYS:HB2	2.19	0.42
1:A:613:PRO:C	1:A:615:LEU:N	2.70	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:A:983:GLN:O	1:A:1418:ILE:HD13	2.19	0.42
1:A:1363:MET:HE3	1:A:1363:MET:HB2	1.70	0.42
1:A:1369:LEU:HD11	1:A:1642:LEU:HD21	2.00	0.42
1:A:1599:MET:HA	1:A:1602:PHE:HD2	1.85	0.42
1:B:68:TYR:C	1:B:68:TYR:CD2	2.97	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:458:GLU:H	1:B:458:GLU:CD	2.26	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:B:904:GLY:C	1:B:906:GLN:H	2.25	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:C:746:PHE:CD2	3:C:1901:NAP:H4D	2.54	0.42
1:C:893:GLN:OE1	2:J:1751:GLY:HA2	2.19	0.42
1:C:1080:LEU:HD23	1:C:1080:LEU:HA	1.84	0.42
1:D:427:ARG:HD2	1:D:490:VAL:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:848:ARG:O	1:D:849:GLY:C	2.62	0.42
1:D:1051:VAL:HG13	1:D:1057:GLU:O	2.18	0.42
1:D:1554:LEU:HD23	1:D:1606:VAL:HG12	2.00	0.42
1:E:905:LEU:C	1:E:907:PHE:H	2.27	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:524:LYS:O	1:F:525:GLN:C	2.62	0.42
1:F:657:MET:HE1	1:F:666:GLY:O	2.19	0.42
1:F:1674:ILE:HD12	2:L:1010:ALA:CB	2.48	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:G:1346:MET:CE	2:G:1617:ARG:HH21	2.33	0.42
2:G:2058:VAL:O	2:G:2062:THR:HB	2.19	0.42
2:H:173:PHE:CE2	2:H:516:PHE:HB2	2.53	0.42
2:H:378:ILE:HG22	2:H:378:ILE:O	2.19	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:I:226:ASP:OD2	2:I:229:GLN:HB2	2.19	0.42
2:I:334:SER:C	2:I:336:LEU:N	2.77	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:916:GLY:O	2:I:924:VAL:HG23	2.19	0.42
2:I:1289:TYR:CD2	2:I:1370:LEU:HD23	2.52	0.42
2:I:1337:ASP:CA	2:I:1342:PHE:HD1	2.33	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: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:J:1332:GLY:C	2:J:1334:ALA:H	2.27	0.42
2:J:1389:LEU:N	2:J:1389:LEU:HD23	2.34	0.42
2:J:1405:ILE:HG12	2:J:1412:MET:HE3	2.00	0.42
2:J:2058:VAL:O	2:J:2062:THR:HB	2.19	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:928:ASP:C	2:K:1007:LEU:HD23	2.45	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:L:196:PHE:CD1	2:L:266:LYS:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:L:1002:GLU:C	2:L:1004:SER:N	2.76	0.42
2:L:1009:ASN:HD22	2:L:1009:ASN:HA	1.56	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:A:1068:TYR:O	1:A:1069:GLU:C	2.60	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:B:93:GLU:HA	1:B:94:PRO:HD3	1.82	0.42
1:B:337:LYS:O	1:B:341:GLU:HG2	2.20	0.42
1:B:662:ALA:HA	1:B:694:TYR:OH	2.20	0.42
1:B:1167:GLY:O	1:B:1172:ARG:NH1	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:C:942:VAL:O	2:I:1536:HIS:HB2	2.19	0.42
1:C:1321:MET:HB3	1:C:1321:MET:HE2	1.76	0.42
1:C:1480:ARG:HH21	1:F:1488:SER:HB2	1.85	0.42
1:C:1494:TRP:CG	1:C:1505:GLY:HA3	2.53	0.42
1:D:430:VAL:HG12	1:D:434:ILE:HD11	2.00	0.42
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: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:E:23:ALA:HA	2:K:2007:SER:O	2.19	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:623:PHE:O	1:E:624:GLY:C	2.62	0.42
1:E:881:LEU:O	1:E:884:MET:HB2	2.19	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: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:N	1:F:883:LEU:HD23	2.33	0.42
1:F:1157:ASP:O	1:F:1159:LEU:HD12	2.19	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:G:938:MET:CE	2:G:959:THR:HA	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1104:ASP:OD1	2:G:1104:ASP:N	2.52	0.42
2:G:1106:LYS:HD3	2:G:1106:LYS:HA	1.75	0.42
2:G:1236:LEU:HD12	2:G:1242:ILE:HA	2.02	0.42
2:G:1346:MET:CE	2:G:1617:ARG:NH2	2.79	0.42
2:G:1351:VAL:CG1	2:G:1352:VAL:N	2.81	0.42
2:G:1389:LEU:N	2:G:1389:LEU:HD23	2.34	0.42
2:G:1981:GLU:O	2:G:1984:PRO:HG3	2.20	0.42
2:H:80:ILE:HG12	2:H:105:ILE:HG22	2.01	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:H:1103:TYR:C	2:H:1104:ASP:OD1	2.63	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:1957:MET:HE3	2:H:1962:LEU:CD2	2.49	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:I:41:LEU:HD13	2:I:100:GLU:HB3	2.02	0.42
2:I:506:VAL:O	2:I:506:VAL:CG1	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:I:1248:GLU:OE2	2:I:1250:ARG:HG2	2.19	0.42
2:I:1911:THR:HG21	2:I:1977:ARG:HB2	2.02	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:1248:GLU:OE2	2:J:1250:ARG:HG2	2.20	0.42
2:J:1291:ARG:HD2	2:J:1297:LYS:HB3	2.02	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:K:1436:ARG:NH2	2:K:1602:LEU:HD11	2.34	0.42
2:K:1481:ILE:HG13	2:K:1481:ILE:O	2.19	0.42
2:K:1759:GLN:NE2	2:K:1762:MET:HE2	2.34	0.42
2:K:1911:THR:HG21	2:K:1977:ARG:HB2	2.01	0.42
2:K:1939:LEU:O	2:K:1943:LEU:HG	2.20	0.42
2:K:1948:MET:HG2	2:K:1993:PHE:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:48:LEU:HD11	2:L:101:VAL:HG11	2.00	0.42
2:L:167:VAL:C	2:L:168:LYS:HD2	2.44	0.42
2:L:174:GLY:HA3	2:L:518:PRO:HD2	2.02	0.42
2:L:219:LYS:HB2	2:L:220:GLN:NE2	2.34	0.42
2:L:601:PRO:HA	2:L:602:PRO:HD3	1.79	0.42
2:L:787:ASP:CG	2:L:1075:TYR:HE2	2.28	0.42
2:L:796:TRP:CG	2:L:797:SER:N	2.87	0.42
2:L:839:ASP:C	2:L:841:ASP:N	2.78	0.42
2:L:980:LEU:HB2	2:L:996:ILE:CD1	2.49	0.42
4:L:2101:FMN:H9	4:L:2101:FMN:H1'2	1.86	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:A:1241:LEU:CD2	1:E:1097:LEU:HD12	2.49	0.42
1:B:799:LEU:HD11	1:B:824:LEU:HD12	2.00	0.42
1:B:1104:GLN:HE22	1:D:1106:LEU:HD12	1.84	0.42
1:B:1321:MET:HE2	1:B:1321:MET:HB3	1.76	0.42
1:B:1702:ARG:CG	1:B:1702:ARG:NH1	2.41	0.42
1:C:71:ALA:HB3	2:H:371:HIS:HB2	2.02	0.42
1:C:427:ARG:HG3	1:C:492:ILE:HG12	2.02	0.42
1:C:1162:GLY:O	1:C:1354:SER:HA	2.20	0.42
1:D:452:ILE:HG22	1:D:453:ASP:N	2.34	0.42
1:D:526:MET:C	1:D:528:GLU:N	2.75	0.42
1:D:605:ARG:O	1:D:606:PRO:C	2.62	0.42
1:D:681:ILE:O	1:D:681:ILE:HG23	2.19	0.42
1:D:1183:VAL:HG11	1:D:1187:THR:CG2	2.46	0.42
1:E:848:ARG:HG2	1:E:871:PHE:O	2.20	0.42
1:F:26:VAL:HG21	2:L:2006:HIS:CE1	2.54	0.42
1:F:29:ILE:HG13	2:L:1920:TYR:O	2.19	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
1:F:1393:VAL:N	1:F:1394:PRO:HD3	2.33	0.42
2:G:182:TYR:CD1	2:G:182:TYR:C	2.97	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:942:MET:HE3	2:G:1029:PRO:HD3	2.01	0.42
2:G:950:TRP:CE2	2:G:956:LYS:HG3	2.54	0.42
2:G:1309:PHE:N	2:G:1309:PHE:CD1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1405:ILE:HG12	2:G:1412:MET:HE3	2.00	0.42
2:G:1457:HIS:HD1	2:G:1487:THR:HG22	1.85	0.42
2:H:44:GLN:O	2:H:48:LEU:HG	2.20	0.42
2:H:2044:THR:C	2:H:2046:LYS:H	2.27	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: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:1332:GLY:C	2:I:1334:ALA:N	2.77	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:1803:THR:C	2:I:1805:PHE:N	2.76	0.42
2:J:398:LEU:HA	2:J:398:LEU:HD23	1.88	0.42
2:J:724:ILE:O	2:J:727:VAL:HG23	2.20	0.42
2:J:754:PHE:N	2:J:754:PHE:CD1	2.86	0.42
2:J:791:TYR:HD2	2:J:796:TRP:CG	2.37	0.42
2:J:820:LYS:HB3	2:J:1080:ASP:C	2.45	0.42
2:J:912:LYS:HE2	2:J:1028:VAL:O	2.19	0.42
2:J:1044:LYS:HE2	3:J:2102:NAP:H4B	2.02	0.42
2:J:1096:LYS:HD2	2:J:1100:ARG:NH2	2.34	0.42
2:J:1161:MET:HE3	2:J:1161:MET:HB3	1.86	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:1985:GLN:C	2:J:1987:VAL:N	2.67	0.42
2:K:208:LEU:HD23	2:K:211:LEU:HD12	2.02	0.42
2:K:316:PHE:CD2	2:K:316:PHE:C	2.98	0.42
2:K:347:PRO:HA	2:K:432:PHE:CE1	2.55	0.42
2:K:578:PRO:HG3	2:K:792:LEU:O	2.20	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:787:ASP:CG	2:K:1075:TYR:HE2	2.28	0.42
4:K:2101:FMN:H9	4:K:2101:FMN:H1'2	1.87	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
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:A:916:THR:HA	1:A:919:ARG:HB2	2.00	0.42
1:A:1219:GLY:CA	1:A:1272:PRO:HD2	2.49	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:782:LYS:HZ3	1:C:786:LYS:HD2	1.85	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: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:D:1071:TYR:CD2	1:D:1071:TYR:C	2.97	0.42
1:D:1654:TYR:CZ	1:D:1658:VAL:HG21	2.54	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: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: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
1:F:1301:VAL:HG22	1:F:1302:CYS:N	2.35	0.42
2:G:36:LEU:HD12	2:G:36:LEU:HA	1.91	0.42
2:G:283:THR:HG23	2:G:470:TYR:O	2.20	0.42
2:G:317:TRP:CD1	2:G:454:ASP:OD2	2.73	0.42
2:G:704:GLU:OE1	2:G:704:GLU:HA	2.19	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: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: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:I:174:GLY:HA2	2:I:524:ILE:CG1	2.49	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
2:I:613:VAL:H	2:I:614:PRO:HD3	1.85	0.42
2:I:917:ARG:CG	2:I:917:ARG:NH1	2.45	0.42
2:I:1204:VAL:HG22	2:I:1219:VAL:HG22	2.02	0.42
2:I:1914:LEU:O	2:I:1931:GLY:HA3	2.20	0.42
2:I:1915:LEU:HB2	2:I:1935:ALA:HB1	2.00	0.42
2:J:374:GLU:CA	2:J:377:HIS:CD2	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:J:1913:TRP:NE1	2:J:1934:ARG:HH11	2.18	0.42
4:J:2101:FMN:H1'2	4:J:2101:FMN:O4'	2.19	0.42
2:K:52:PHE:CD2	2:K:79:TYR:HD1	2.37	0.42
2:K:248:VAL:O	2:K:252:LEU:HB2	2.19	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:857:VAL:CG2	2:K:877:LYS:HB2	2.49	0.42
2:K:865:ILE:HG21	2:K:867:LYS:HE3	2.02	0.42
2:K:1113:ILE:HG23	2:K:1169:TYR:CD2	2.55	0.42
2:K:1163:LEU:HD12	2:K:1163:LEU:HA	1.78	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: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:N	2:L:754:PHE:CD1	2.88	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
1:A:41:THR:HA	2:G:1689:VAL:HB	2.02	0.42
1:A:409:ASP:HB2	1:A:439:ARG:HH12	1.83	0.42
1:A:1288:ASP:OD2	1:A:1288:ASP:C	2.62	0.42
1:A:1488:SER:O	1:E:1480:ARG:NH2	2.47	0.42
1:A:1564:HIS:ND1	1:A:1564:HIS:C	2.78	0.42
1:B:526:MET:CE	1:B:615:LEU:HG	2.50	0.42
1:B:1674:ILE:HD12	2:H:1010:ALA:CB	2.48	0.42
1:C:447:PHE:CE1	1:C:451:HIS:NE2	2.87	0.42
1:C:852:LEU:HD23	1:C:852:LEU:O	2.20	0.42
1:D:447:PHE:CE1	1:D:451:HIS:NE2	2.88	0.42
1:D:484:PRO:HA	1:D:485:PRO:HD3	1.77	0.42
1:D:613:PRO:C	1:D:615:LEU:N	2.72	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1232:LEU:HD23	1:D:1232:LEU:HA	1.72	0.42
1:D:1523:HIS:O	1:D:1524:GLY:C	2.62	0.42
1:D:1672:GLY:O	1:D:1676:ASN:N	2.52	0.42
1:E:22:PHE:CE1	2:K:1867:MET:HG3	2.48	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:E:960:ARG:HD3	2:K:969:ARG:NH2	2.34	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:F:396:ALA:C	1:F:397:ARG:HD3	2.44	0.42
1:F:422:LEU:HD13	1:F:429:ILE:HG23	2.02	0.42
1:F:1157:ASP:O	1:F:1327:ALA:HB3	2.19	0.42
2:G:327:PRO:CD	2:H:1338:ARG:HH21	2.33	0.42
2:G:863:GLU:HA	2:G:864:PRO:HD3	1.81	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
2:G:1674:THR:C	2:G:1676:GLU:H	2.26	0.42
2:G:1744:GLU:HA	2:G:1799:LEU:HD11	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:H:1674:THR:C	2:H:1676:GLU:H	2.27	0.42
2:H:1871:VAL:HG21	2:H:2004:PRO:HD3	2.02	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:819:ALA:HA	2:I:1081:GLU:O	2.20	0.42
2:I:838:VAL:HG12	2:I:839:ASP:N	2.35	0.42
2:I:1304:PRO:HA	2:I:1365:LYS:HZ1	1.84	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: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:J:248:VAL:O	2:J:252:LEU:HB2	2.19	0.42
2:J:262:MET:HE3	2:J:262:MET:HB3	1.74	0.42
2:J:595:SER:HB3	2:J:602:PRO:HD3	2.01	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:HD22	2:J:1646:ASN:HA	1.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2010:LEU:O	2:J:2014:VAL:HG23	2.19	0.42
2:K:583:THR:HG22	2:K:1115:TYR:HA	2.01	0.42
2:K:868:LEU:HD21	2:K:1068:GLN:HG3	2.02	0.42
2:K:1002:GLU:C	2:K:1004:SER:N	2.78	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
2:K:1799:LEU:C	2:K:1801:SER:H	2.28	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:835:ALA:HB3	2:L:1073:ALA:HB1	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
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:2044:THR:C	2:L:2046:LYS:H	2.27	0.42
1:A:802:SER:HA	1:A:803:PRO:HD3	1.80	0.42
1:A:831:GLU:HG2	1:F:755:GLU:HG2	2.02	0.42
1:A:1191:LEU:HD23	1:A:1191:LEU:HA	1.90	0.42
1:A:1522:PHE:CD2	1:A:1534:GLU:HB3	2.55	0.42
1:B:687:PHE:C	1:B:687:PHE:HD2	2.28	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:71:ALA:CB	2:H:371:HIS:HB2	2.50	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: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: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:1647:ASP:C	1:D:1649:ALA:N	2.75	0.42
1:E:549:TYR:O	1:E:553:ARG:HB3	2.20	0.42
1:E:626:TRP:CD2	1:E:898:PHE:HD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:868:VAL:HG22	1:E:869:ARG:H	1.84	0.42
1:E:1711:LEU:C	1:E:1712:LYS:HG3	2.44	0.42
1:F:29:ILE:HG13	2:L:1920:TYR:C	2.45	0.42
1:F:623:PHE:O	1:F:624:GLY:C	2.62	0.42
1:F:905:LEU:C	1:F:907:PHE:H	2.26	0.42
1:F:1011:ARG:NH1	1:F:1012:TRP:HA	2.35	0.42
1:F:1011:ARG:HH11	1:F:1012:TRP:HA	1.84	0.42
1:F:1672:GLY:O	1:F:1676:ASN:N	2.53	0.42
2:G:162:ALA:CA	2:G:167:VAL:HG22	2.48	0.42
2:G:208:LEU:HD23	2:G:211:LEU:HD12	2.02	0.42
2:G:444:LEU:HD23	2:G:444:LEU:HA	1.75	0.42
2:G:790:PRO:HA	2:G:795:SER:OG	2.19	0.42
2:G:875:PHE:C	2:G:878:GLU:HB2	2.45	0.42
2:H:815:ARG:NH2	2:H:1086:ILE:CG2	2.83	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
2:H:1960:MET:HE2	2:H:1964:ASP:C	2.45	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:835:ALA:HB3	2:I:1073:ALA:HB1	2.00	0.42
2:I:912:LYS:HG2	2:I:1029:PRO:C	2.44	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:H	2:I:1972:ILE:HG13	1.41	0.42
2:J:99:LEU:HD23	2:J:99:LEU:HA	1.92	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:1470:LYS:HA	2:J:1470:LYS:HD3	1.89	0.42
2:K:186:LEU:HD23	2:K:186:LEU:HA	1.84	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: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:2052:LYS:H	2:K:2052:LYS:HG2	1.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1022:ARG:H	2:L:1022:ARG:HG3	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
1:A:21:GLN:HE22	2:G:1841:TYR:HE1	1.68	0.42
1:A:458:GLU:CD	1:A:458:GLU:H	2.27	0.42
1:A:566:PHE:HE1	1:F:552:ILE:HD11	1.85	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:HA	1:A:1470:ARG:HD3	1.83	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:HE	1:B:869:ARG:HB2	1.64	0.42
1:B:1554:LEU:HD23	1:B:1606:VAL:HG12	2.02	0.42
1:B:1574:LEU:HA	1:B:1574:LEU:HD12	1.83	0.42
1:C:611:THR:HG22	1:C:612:ILE:N	2.35	0.42
1:C:1052:ASP:O	1:C:1055:THR:O	2.38	0.42
1:C:1237:LYS:HB2	1:F:1236:TYR:O	2.20	0.42
1:C:1301:VAL:HG23	1:C:1363:MET:HG3	2.00	0.42
1:C:1651:TYR:CE2	1:C:1655:CYS:SG	3.13	0.42
1:D:13:LEU:HD11	2:J:2058:VAL:HG21	2.02	0.42
1:D:930:GLN:HG2	1:D:930:GLN:H	1.72	0.42
1:D:965:TYR:HE1	1:D:1669:PHE:CD1	2.38	0.42
1:D:983:GLN:HB3	1:D:1418:ILE:HG21	2.02	0.42
1:D:1012:TRP:O	1:D:1013:GLU:C	2.63	0.42
1:D:1080:LEU:HD23	1:D:1080:LEU:HA	1.85	0.42
1:E:902:ASN:O	1:E:904:GLY:N	2.52	0.42
1:E:904:GLY:C	1:E:906:GLN:H	2.26	0.42
1:E:916:THR:HA	1:E:919:ARG:HB2	2.02	0.42
1:F:363:GLU:O	1:F:366:LYS:HB2	2.20	0.42
1:F:538:ARG:HB2	1:F:585:MET:HE1	2.01	0.42
1:F:902:ASN:OD1	1:F:905:LEU:HD12	2.20	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:G:1335:PHE:CZ	2:G:1629:ILE:HD13	2.55	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:1743:LYS:HA	2:G:1798:GLY:HA2	2.02	0.42
2:H:41:LEU:HD13	2:H:100:GLU:HB3	2.01	0.42
2:H:129:ILE:HG21	2:H:132:LYS:HD2	2.01	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: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:608:MET:HA	4:H:2101:FMN:C5A	2.50	0.42
2:H:690:LEU:HB2	2:H:711:ILE:HG21	2.02	0.42
2:H:787:ASP:C	2:H:790:PRO:HD2	2.44	0.42
2:H:1207:THR:HB	2:H:1216:VAL:HB	2.02	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:H	2:H:2053:GLU:HG3	1.67	0.42
2:I:48:LEU:HD11	2:I:101:VAL:HG11	2.02	0.42
2:I:196:PHE:HD2	2:I:196:PHE:N	2.18	0.42
2:I:589:PHE:CD1	2:I:1116:PHE:CD2	3.08	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:1404:VAL:HA	2:I:1412:MET:O	2.20	0.42
2:I:1919:ASN:HD22	2:I:1919:ASN:HA	1.62	0.42
2:I:2057:GLU:HA	2:I:2060:ARG:HH12	1.78	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:J:938:MET:HE2	2:J:959:THR:HA	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:1382:MET:HE2	2:J:1382:MET:HB3	1.78	0.42
2:J:1472:TRP:CE2	2:J:1540:VAL:HG22	2.55	0.42
2:K:155:ASP:OD1	2:K:155:ASP:N	2.53	0.42
2:K:612:THR:CG2	2:K:629:GLU:O	2.68	0.42
2:K:942:MET:HE3	2:K:1029:PRO:HD3	2.02	0.42
2:K:1957:MET:HE3	2:K:1962:LEU:CD2	2.50	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:122:ILE:HD13	2:L:122:ILE:HA	1.94	0.42
2:L:169:ILE:HG22	2:L:279:PHE:CD2	2.55	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:608:MET:O	2:L:609:THR:C	2.62	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
2:L:955:LEU:HD21	2:L:1026:LYS:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1491:ARG:C	2:L:1492:LEU:HD23	2.45	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:1939:LEU:O	2:L:1943:LEU:HG	2.19	0.42
1:A:397:ARG:HH12	1:A:692:THR:HG21	1.85	0.41
1:A:569:LEU:O	1:A:573:VAL:HG23	2.20	0.41
1:A:1142:LEU:HD12	1:A:1142:LEU:H	1.85	0.41
1:B:397:ARG:CG	1:B:397:ARG:NH1	2.48	0.41
1:B:562:SER:OG	1:E:551:LEU:HD21	2.20	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:C:1288:ASP:OD2	1:C:1288:ASP:C	2.63	0.41
1:C:1491:ASN:ND2	1:C:1491:ASN:N	2.67	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: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:E:421:ARG:NH2	1:E:1613:LYS:CB	2.83	0.41
1:E:1082:GLU:HB2	1:E:1085:LEU:HD12	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:741:ASP:CG	1:F:793:ARG:HH11	2.28	0.41
1:F:744:VAL:HG12	1:F:746:PHE:CD1	2.55	0.41
1:F:1564:HIS:C	1:F:1564:HIS:ND1	2.78	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:HD2	2.02	0.41
2:G:152:LYS:HA	2:G:153:PRO:HD3	1.81	0.41
2:G:211:LEU:HD13	2:G:313:GLU:HG3	2.02	0.41
2:G:396:ILE:HD12	2:G:396:ILE:N	2.31	0.41
2:G:609:THR:O	2:G:610:PRO:C	2.59	0.41
2:G:720:SER:HB3	2:G:723:ALA:HB2	2.02	0.41
2:G:1171:TRP:CG	2:G:1172:ARG:N	2.86	0.41
2:G:1337:ASP:HB2	2:G:1342:PHE:CD1	2.55	0.41
2:G:1777:THR:HG23	2:G:1777:THR:O	2.20	0.41
2:G:1847:LEU:HD12	2:G:1847:LEU:N	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:596:ARG:HD3	2:H:1119:ARG:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:649:GLU:HG3	2:H:650:LYS:N	2.34	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:HD12	2:H:1847:LEU:N	2.35	0.41
2:I:174:GLY:HA3	2:I:518:PRO:HD2	2.02	0.41
2:I:560:ASP:HB3	2:I:565:ALA:HB1	2.01	0.41
2:I:580:LEU:HG	2:I:1098:LEU:HD23	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:I:1762:MET:HA	2:I:1779:LYS:HE2	2.01	0.41
2:J:220:GLN:O	2:J:222:PRO:HD3	2.20	0.41
2:J:520:GLY:C	2:J:522:SER:N	2.78	0.41
2:J:615:TRP:O	2:J:618:VAL:HG13	2.20	0.41
2:J:817:MET:HE2	2:J:817:MET:HB3	1.88	0.41
2:J:914:TRP:CZ3	2:J:1033:ALA:HA	2.55	0.41
2:J:942:MET:HE3	2:J:1029:PRO:HD3	2.02	0.41
2:J:1644:LEU:HB3	2:J:1645:PRO:CD	2.50	0.41
2:J:1803:THR:O	2:J:1804:GLN:C	2.61	0.41
2:J:1966:ARG:HG3	2:J:1967:ALA:N	2.35	0.41
4:J:2101:FMN:H1'2	4:J:2101:FMN:H9	1.81	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:K:1022:ARG:H	2:K:1022:ARG:HG3	1.65	0.41
2:K:1405:ILE:HG12	2:K:1412:MET:HE3	2.01	0.41
2:L:113:PHE:CD1	2:L:113:PHE:N	2.88	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
2:L:796:TRP:CZ2	2:L:805:MET:HE2	2.55	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
1:A:388:GLU:HA	1:A:389:PRO:HD3	1.95	0.41
1:A:755:GLU:C	1:A:757:ASP:N	2.76	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:B:358:PHE:CD2	1:B:359:VAL:N	2.88	0.41
1:B:575:ARG:HD3	1:E:534:GLN:O	2.20	0.41
1:B:657:MET:HB3	1:B:657:MET:HE2	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:741:ASP:CG	1:B:793:ARG:HH11	2.28	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:C:998:GLY:CA	1:C:1361:VAL:HG13	2.40	0.41
1:D:749:ILE:HG13	1:D:769:ILE:HD13	2.02	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:D:1639:PRO:O	1:D:1640:LYS:C	2.62	0.41
1:E:17:LEU:HD22	2:K:2041:PRO:HB3	2.01	0.41
1:E:682:VAL:HG11	1:E:695:TYR:CE2	2.54	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:F:968:PRO:CD	1:F:1374:PRO:HB3	2.50	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
2:G:155:ASP:OD1	2:G:155:ASP:N	2.52	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:G:670:MET:CE	2:G:674:ILE:HD11	2.45	0.41
2:G:1160:PHE:O	2:G:1164:ILE:HG13	2.20	0.41
2:G:1755:LYS:HG2	2:G:1755:LYS:H	1.71	0.41
2:G:1919:ASN:HD22	2:G:1919:ASN:HA	1.57	0.41
2:H:52:PHE:O	2:H:55:THR:HB	2.20	0.41
2:H:95:HIS:CB	2:H:96:PRO:HD3	2.50	0.41
2:H:129:ILE:CG2	2:H:132:LYS:HD2	2.50	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: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:914:TRP:C	2:H:916:GLY:H	2.27	0.41
2:H:1309:PHE:N	2:H:1309:PHE:CD1	2.87	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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:731:ALA:HB1	2:J:771:CYS:SG	2.61	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:2031:ASP:C	2:J:2033:SER:N	2.76	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:K:839:ASP:C	2:K:841:ASP:N	2.76	0.41
2:K:938:MET:HE2	2:K:959:THR:CG2	2.50	0.41
2:K:1251:THR:CG2	2:K:1292:VAL:HG13	2.49	0.41
2:K:1362:PHE:O	2:K:1363:PRO:C	2.63	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
2:K:2031:ASP:C	2:K:2033:SER:N	2.78	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:615:TRP:HB2	2:L:648:ILE:HG13	2.03	0.41
2:L:635:TYR:CD2	2:L:641:MET:HG3	2.53	0.41
2:L:713:HIS:HD2	2:L:740:ILE:HD13	1.81	0.41
2:L:914:TRP:C	2:L:916:GLY:H	2.27	0.41
2:L:914:TRP:CZ3	2:L:1033:ALA:HA	2.55	0.41
2:L:1305:LEU:H	2:L:1305:LEU:CD1	2.25	0.41
1:A:440:SER:HB3	1:A:481:LEU:CD2	2.45	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: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: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: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:D:681:ILE:HG21	1:D:729:ILE:CD1	2.51	0.41
1:D:914:LEU:O	1:D:914:LEU:HD12	2.21	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:E:524:LYS:O	1:E:525:GLN:C	2.63	0.41
1:E:532:ILE:HD11	1:E:866:LEU:O	2.21	0.41
1:E:681:ILE:HG23	1:E:681:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:770:MET:HE2	1:E:770:MET:HB2	1.86	0.41
1:E:1420:TYR:O	1:E:1424:GLN:HG2	2.21	0.41
1:F:11:TYR:HD1	2:L:2030:ILE:CD1	2.34	0.41
1:F:13:LEU:CD1	2:L:2058:VAL:HG21	2.50	0.41
1:F:407:ARG:H	1:F:407:ARG:HG3	1.59	0.41
1:F:1007:ASN:ND2	1:F:1031:MET:HE1	2.36	0.41
1:F:1565:PRO:HG3	1:F:1572:TRP:CH2	2.55	0.41
1:F:1700:GLN:O	1:F:1701:SER:C	2.62	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:G:1241:GLU:HA	2:G:1263:PHE:O	2.20	0.41
2:G:2009:PHE:HD2	2:G:2009:PHE:O	2.03	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:H:1181:PHE:HE1	2:H:1191:PRO:HD2	1.84	0.41
2:H:1751:GLY:O	2:H:1755:LYS:HG2	2.20	0.41
2:I:334:SER:C	2:I:336:LEU:H	2.29	0.41
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: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:1405:ILE:HG12	2:I:1412:MET:HE3	2.02	0.41
2:I:1918:VAL:CG1	2:I:2006:HIS:HB2	2.47	0.41
2:J:155:ASP:OD1	2:J:155:ASP:N	2.54	0.41
2:J:349:PRO:O	2:J:392:THR:HA	2.20	0.41
2:J:351:LEU:HD22	2:J:352:SER:H	1.85	0.41
2:J:720:SER:H	2:J:723:ALA:HB3	1.85	0.41
2:J:746:GLY:O	2:J:843:TRP:NE1	2.53	0.41
2:J:821:GLU:HB2	2:J:1083:ILE:HD11	2.02	0.41
2:J:876:TRP:C	2:J:876:TRP:HD1	2.26	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:1939:LEU:O	2:J:1943:LEU:HG	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:916:GLY:O	2:K:924:VAL:N	2.46	0.41
2:K:1382:MET:HE2	2:K:1382:MET:HB3	1.85	0.41
2:K:1753:ARG:O	2:K:1757:ILE:HG12	2.20	0.41
2:L:189:ILE:HD12	2:L:256:VAL:HG13	2.02	0.41
2:L:271:GLU:H	2:L:274:GLU:CG	2.33	0.41
2:L:441:SER:C	2:L:443:TYR:H	2.28	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
2:L:1588:ASN:HA	2:L:1589:PRO:HD3	1.90	0.41
2:L:2063:GLY:O	2:L:2065:PRO:HD3	2.21	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:A:1168:TRP:CE2	1:A:1173:TYR:HE1	2.39	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: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:C:481:LEU:C	1:C:483:LYS:H	2.28	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
1:C:968:PRO:HD2	1:C:1374:PRO:HB3	2.02	0.41
1:C:1097:LEU:HD12	1:F:1241:LEU:CD2	2.51	0.41
1:C:1104:GLN:NE2	1:F:1106:LEU:HD12	2.34	0.41
1:C:1278:GLY:CA	1:C:1282:THR:HG22	2.49	0.41
1:C:1577:CYS:HB3	1:C:1620:PHE:CD2	2.55	0.41
1:D:24:MET:HB3	1:D:24:MET:HE3	1.74	0.41
1:D:340:LEU:HD23	1:D:340:LEU:C	2.45	0.41
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:68:TYR:CD2	1:E:68:TYR:C	2.98	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:F:27:ARG:H	1:F:27:ARG:HG2	1.36	0.41
1:F:636:TYR:CE1	1:F:883:LEU:HD23	2.55	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
2:G:353:ILE:O	2:G:353:ILE:HG22	2.19	0.41
2:G:388:ASN:C	2:G:388:ASN:ND2	2.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:463:SER:C	2:G:465:LEU:H	2.27	0.41
2:G:636:TYR:CE2	3:G:2102:NAP:H3B	2.55	0.41
2:G:1624:ALA:HB1	2:G:1665:ILE:CD1	2.50	0.41
2:H:47:GLN:CG	2:I:23:PRO:HD2	2.49	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: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:I:220:GLN:O	2:I:222:PRO:HD3	2.20	0.41
2:I:352:SER:HB2	2:I:433:LEU:HD11	2.03	0.41
2:I:915:PHE:O	2:I:915:PHE:CG	2.73	0.41
2:I:1194:ARG:HH21	2:I:1601:ASN:CG	2.28	0.41
2:I:1424:LYS:HE3	2:I:1424:LYS:HB2	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:J:396:ILE:H	2:J:396:ILE:CD1	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:J:670:MET:HE2	2:J:674:ILE:CD1	2.49	0.41
2:J:839:ASP:C	2:J:841:ASP:N	2.78	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:K:117:ASN:CA	2:K:561:ARG:HG3	2.38	0.41
2:K:223:LYS:HB3	2:K:242:TYR:CZ	2.54	0.41
2:K:357:THR:O	2:K:361:VAL:HG23	2.20	0.41
2:K:388:ASN:C	2:K:388:ASN:ND2	2.77	0.41
2:K:521:VAL:O	2:K:521:VAL:HG12	2.20	0.41
2:K:616:ASP:OD2	2:K:823:HIS:NE2	2.53	0.41
2:K:642:SER:HB3	2:K:676:LEU:HD21	2.02	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:L:76:VAL:HG21	2:L:113:PHE:CZ	2.55	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:220:GLN:O	2:L:222:PRO:HD3	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1120:ILE:HG13	2:L:1169:TYR:CZ	2.56	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:1957:MET:HE3	2:L:1962:LEU:CD2	2.50	0.41
1:A:4:GLU:H	1:A:4:GLU:HG3	1.50	0.41
1:B:1527:THR:OG1	1:B:1530:ASN:HB3	2.20	0.41
1:C:68:TYR:CD2	1:C:68:TYR:C	2.98	0.41
1:C:679:LYS:HG2	1:C:708:GLN:CB	2.49	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:D:12:THR:CG2	2:J:2066:LYS:HD3	2.50	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:1698:ASN:OD1	1:D:1698:ASN:C	2.62	0.41
1:E:18:LEU:HD21	2:K:1844:LEU:HD11	2.03	0.41
1:E:21:GLN:HE21	1:E:21:GLN:HB3	1.58	0.41
1:E:674:LEU:HD23	1:E:674:LEU:HA	1.92	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: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
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
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
2:G:349:PRO:O	2:G:392:THR:HA	2.20	0.41
2:G:476:GLN:H	2:G:476:GLN:HG2	1.66	0.41
2:G:1120:ILE:HD13	2:G:1173:HIS:CE1	2.56	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:O	2:G:2050:ILE:HG12	2.20	0.41
2:H:174:GLY:H	2:H:517:GLY:CA	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:618:VAL:CG1	2:H:648:ILE:HD11	2.50	0.41
2:H:787:ASP:CG	2:H:1075:TYR:HE2	2.29	0.41
2:H:788:THR:HG21	2:H:810:CYS:SG	2.60	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: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:I:163:ALA:HB2	2:I:278:ARG:HE	1.85	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:I:1362:PHE:O	2:I:1363:PRO:C	2.63	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:J:60:THR:HG22	2:J:62:GLU:HG3	2.01	0.41
2:J:381:SER:C	2:J:382:LEU:HD23	2.46	0.41
2:J:604:MET:CE	2:J:811:MET:HB2	2.48	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:J:1362:PHE:N	2:J:1363:PRO:CD	2.84	0.41
2:K:857:VAL:HG11	2:K:876:TRP:CD1	2.55	0.41
2:K:931:TYR:CD2	2:K:966:VAL:HG13	2.56	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
2:K:2020:PHE:O	2:K:2024:LYS:HG2	2.21	0.41
2:L:716:PHE:CD1	2:L:727:VAL:HG13	2.56	0.41
2:L:820:LYS:HB3	2:L:1080:ASP:C	2.46	0.41
2:L:932:ALA:O	2:L:935:VAL:HG13	2.20	0.41
2:L:1064:THR:CG2	2:L:1065:CYS:N	2.83	0.41
2:L:1087:LEU:O	2:L:1088:ASP:C	2.64	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:1848:ALA:HA	2:L:2034:LYS:HD3	2.02	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:549:TYR:C	1:B:549:TYR:CD2	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:968:PRO:HD2	1:B:1374:PRO:HB3	2.03	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:C:382:ILE:H	1:C:382:ILE:HG13	1.65	0.41
1:C:498:THR:HG21	1:C:858:LEU:C	2.46	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: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:D:544:ASP:O	1:D:548:VAL:HG23	2.21	0.41
1:D:880:LEU:C	1:D:882:GLY:N	2.78	0.41
1:D:1157:ASP:O	1:D:1159:LEU:HD12	2.21	0.41
1:D:1700:GLN:O	1:D:1701:SER:C	2.62	0.41
1:E:449:GLN:O	1:E:450:TYR:C	2.63	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:13:LEU:HD21	2:L:2054:TYR:CD2	2.55	0.41
1:F:42:GLU:OE1	2:L:1688:PRO:HB3	2.20	0.41
1:F:855:ALA:HB1	1:F:919:ARG:HH21	1.84	0.41
1:F:1107:GLU:HA	1:F:1108:PRO:HD3	1.73	0.41
2:G:80:ILE:HG12	2:G:105:ILE:HG22	2.03	0.41
2:G:246:ALA:N	2:G:247:PRO:HD2	2.36	0.41
2:G:416:GLN:C	2:G:418:ARG:N	2.78	0.41
2:G:521:VAL:O	2:G:521:VAL:HG12	2.20	0.41
2:G:616:ASP:CG	2:G:823:HIS:HE2	2.28	0.41
2:G:618:VAL:CG1	2:G:648:ILE:HD11	2.51	0.41
2:G:743:TRP:CZ2	2:G:757:PHE:HA	2.50	0.41
2:G:744:THR:HG22	2:G:745:GLY:N	2.35	0.41
2:G:787:ASP:CG	2:G:1075:TYR:HE2	2.29	0.41
2:G:1015:HIS:O	2:G:1016:PHE:C	2.64	0.41
2:G:1081:GLU:CD	2:G:1086:ILE:HG23	2.45	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:1759:GLN:NE2	2:G:1762:MET:HE2	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:608:MET:HE2	2:H:611:THR:OG1	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: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:1674:THR:C	2:H:1676:GLU:N	2.79	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:I:358:ARG:O	2:I:359:SER:C	2.63	0.41
2:I:521:VAL:HG12	2:I:521:VAL:O	2.20	0.41
2:I:2031:ASP:C	2:I:2033:SER:N	2.78	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:J:819:ALA:HA	2:J:1081:GLU:O	2.19	0.41
2:J:887:ASP:O	2:J:888:ARG:C	2.63	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:2035:LEU:O	2:J:2036:ILE:C	2.63	0.41
2:K:130:THR:HG23	2:K:546:ASP:HB3	2.02	0.41
2:K:699:ILE:H	2:K:699:ILE:CD1	2.34	0.41
2:K:815:ARG:NH2	2:K:1086:ILE:CG2	2.83	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:L:60:THR:HG22	2:L:62:GLU:HG3	2.01	0.41
2:L:129:ILE:CG2	2:L:132:LYS:HD2	2.51	0.41
2:L:609:THR:O	2:L:610:PRO:C	2.63	0.41
2:L:743:TRP:CZ2	2:L:757:PHE:HA	2.51	0.41
2:L:744:THR:HG22	2:L:745:GLY:N	2.36	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:A:34:VAL:HG21	2:G:2045:ALA:O	2.19	0.41
1:A:1459:GLY:HA2	1:A:1460:PRO:HD3	1.92	0.41
1:B:396:ALA:C	1:B:397:ARG:HD3	2.45	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:B:1162:GLY:O	1:B:1354:SER:HA	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:C:1065:LYS:O	1:C:1069:GLU:HB2	2.20	0.41
1:C:1191:LEU:HD23	1:C:1191:LEU:HA	1.89	0.41
1:C:1652:GLU:O	1:C:1656:VAL:HG23	2.21	0.41
1:D:363:GLU:O	1:D:366:LYS:HB2	2.20	0.41
1:D:1542:LEU:HD22	1:D:1547:ARG:HD3	2.03	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: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:H	1:E:1457:GLU:HG3	1.48	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
1:F:1217:GLU:O	1:F:1299:ALA:HB1	2.21	0.41
1:F:1522:PHE:CD2	1:F:1534:GLU:HB3	2.55	0.41
2:G:433:LEU:HA	2:G:434:PRO:HD3	1.86	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: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
4:G:2101:FMN:H9	4:G:2101:FMN:H1'2	1.88	0.41
2:H:186:LEU:HD23	2:H:186:LEU:HA	1.78	0.41
2:H:329:THR:HG22	2:I:1331:THR:O	2.20	0.41
2:H:636:TYR:CE2	3:H:2102:NAP:H3B	2.56	0.41
2:H:716:PHE:CD1	2:H:727:VAL:HG13	2.55	0.41
2:H:1102:LEU:HA	2:H:1102:LEU:HD23	1.83	0.41
2:H:1241:GLU:HA	2:H:1263:PHE:O	2.21	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:932:ALA:O	2:I:935:VAL:HG13	2.21	0.41
2:I:1053:ILE:CD1	2:I:1061:VAL:HG13	2.51	0.41
2:I:1203:TYR:CE2	2:I:1205:GLU:HG3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:48:LEU:HG	2:J:48:LEU:H	1.56	0.41
2:J:601:PRO:C	2:J:603:VAL:H	2.29	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: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:O	2:J:1700:GLN:HG2	2.20	0.41
2:J:1759:GLN:NE2	2:J:1762:MET:HE2	2.36	0.41
2:J:1847:LEU:HD12	2:J: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:626:TYR:CE1	2:K:1087:LEU:HB3	2.55	0.41
2:K:764:MET:O	2:K:765:TYR:C	2.64	0.41
2:K:818:THR:HA	2:K:829:LYS:HE2	2.01	0.41
2:K:914:TRP:C	2:K:916:GLY:H	2.29	0.41
2:K:1847:LEU:HD12	2:K:1847:LEU:N	2.35	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
2:L:912:LYS:HB3	2:L:1030:PHE:HA	2.03	0.41
2:L:1007:LEU:N	2:L:1007:LEU:CD1	2.76	0.41
2:L:1481:ILE:O	2:L:1481:ILE:HG13	2.20	0.41
2:L:1847:LEU:HD12	2:L:1847:LEU:N	2.35	0.41
2:L:2058:VAL:O	2:L:2062:THR:HB	2.21	0.41
1:A:619:LYS:HB2	1:A:619:LYS:HE3	1.85	0.41
1:A:955:VAL:HG21	2:G:964:ARG:HH21	1.85	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:B:352:ARG:O	1:B:356:LYS:HG3	2.20	0.41
1:B:449:GLN:O	1:B:450:TYR:C	2.63	0.41
1:B:579:MET:CE	1:E:907:PHE:CZ	3.04	0.41
1:B:612:ILE:O	1:B:613:PRO:C	2.63	0.41
1:B:848:ARG:O	1:B:849:GLY:C	2.61	0.41
1:C:4:GLU:H	1:C:4:GLU:HG3	1.56	0.41
1:C:36:LEU:O	1:C:76:ARG:NH2	2.52	0.41
1:C:662:ALA:HA	1:C:694:TYR:CZ	2.55	0.41
1:C:1343:PRO:O	1:C:1531:ASP:OD2	2.39	0.41
1:C:1514:ILE:H	1:C:1514:ILE:HG13	1.31	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)
1:D:1310:PHE:CE1	1:D:1315:SER:HB2	2.56	0.41
1:E:49:PRO:HG3	2:K:1813:MET:HE3	2.03	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: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
1:F:963:LEU:CD2	1:F:1023:GLU:HB3	2.51	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:CE	2.50	0.41
2:G:22:ARG:HD2	2:G:42:HIS:CB	2.50	0.41
2:G:174:GLY:H	2:G:517:GLY:CA	2.32	0.41
2:G:912:LYS:NZ	2:G:1044:LYS:O	2.53	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:1464:LEU:HD13	2:G:1464:LEU:C	2.45	0.41
2:H:31:LEU:HD13	2:H:75:LEU:HG	2.02	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:791:TYR:HD2	2:H:796:TRP:CG	2.39	0.41
2:H:942:MET:HE2	2:H:955:LEU:CB	2.40	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:I:253:ILE:O	2:I:257:GLN:HG3	2.21	0.41
2:I:608:MET:O	2:I:609:THR:C	2.63	0.41
2:I:775:VAL:HG12	2:I:777:VAL:HG23	2.01	0.41
2:I:858:LEU:CD2	2:I:864:PRO:HA	2.50	0.41
2:I:942:MET:HE3	2:I:1029:PRO:CD	2.51	0.41
2:I:1483:LEU:H	2:I:1483:LEU:HG	1.09	0.41
2:J:174:GLY:HA2	2:J:524:ILE:HG12	2.02	0.41
2:J:186:LEU:HD11	2:J:255:LEU:HD23	2.02	0.41
2:J:246:ALA:N	2:J:247:PRO:HD2	2.35	0.41
2:J:346:THR:HA	2:J:347:PRO:HD3	1.88	0.41
2:J:418:ARG:HE	2:J:418:ARG:HB3	1.70	0.41
2:J:740:ILE:HA	2:J:775:VAL:HB	2.02	0.41
2:J:1091:HIS:O	2:J:1094:HIS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1163:LEU:HD12	2:J:1163:LEU:HA	1.79	0.41
2:J:1194:ARG:HH21	2:J:1601:ASN:CG	2.28	0.41
2:J:1346:MET:HE2	2:J:1346:MET:HB3	1.78	0.41
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:K:167:VAL:C	2:K:168:LYS:HD2	2.45	0.41
2:K:976:GLN:HA	2:K:977:PRO:HD3	1.90	0.41
2:K:1106:LYS:HD3	2:K:1106:LYS:HA	1.76	0.41
2:K:1515:LEU:CB	2:K:1525:VAL:HG21	2.51	0.41
2:K:1692:TYR:O	2:K:1833:PHE:HA	2.21	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: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:458:MET:C	2:L:459:LYS:HG3	2.46	0.41
2:L:737:PHE:HA	2:L:738:PRO:HD3	1.86	0.41
2:L:1288:PHE:CD2	2:L:1288:PHE:C	2.99	0.41
2:L:1755:LYS:HG2	2:L:1755:LYS:H	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
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:498:THR:CG2	1:A:858:LEU:HA	2.41	0.41
1:A:770:MET:HE2	1:A:770:MET:HB2	1.76	0.41
1:A:1107:GLU:CB	1:E:1104:GLN:OE1	2.66	0.41
1:A:1127:VAL:HG22	1:A:1142:LEU:HA	2.03	0.41
1:A:1463:GLU:O	1:A:1467:LEU:HB2	2.21	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:B:491:SER:O	1:B:493:PRO:HD3	2.21	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:726:VAL:HG21	1:B:780:ALA:CB	2.50	0.41
1:B:777:LEU:CD2	1:B:781:ILE:HD11	2.51	0.41
1:B:994:VAL:HG21	1:B:1291:TYR:CD1	2.56	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:1491:ASN:H	1:B:1491:ASN:ND2	2.16	0.41
1:B:1698:ASN:OD1	1:B:1698:ASN:C	2.63	0.41
1:C:20:TYR:CE2	2:I:2062:THR:HG23	2.56	0.41
1:C:381:ASP:O	1:C:384:ALA:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:636:TYR:CE1	1:C:883:LEU:HD23	2.56	0.41
1:C:726:VAL:HG21	1:C:780:ALA:HB3	2.02	0.41
1:C:914:LEU:O	1:C:914:LEU:HD12	2.20	0.41
1:C:991:ASP:O	1:C:991:ASP:CG	2.64	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:1623:THR:HG22	1:C:1633:GLN:HB2	2.03	0.41
1:C:1700:GLN:O	1:C:1701:SER:C	2.64	0.41
1:D:484:PRO:HG3	1:D:651:GLN:OE1	2.21	0.41
1:D:498:THR:HG21	1:D:858:LEU:C	2.46	0.41
1:D:610:GLU:CD	1:D:630:LYS:NZ	2.78	0.41
1:D:626:TRP:CE3	1:D:898:PHE:HB2	2.56	0.41
1:D:689:ARG:HB2	1:D:1336:GLU:CD	2.46	0.41
1:D:902:ASN:O	1:D:904:GLY:N	2.52	0.41
1:D:1185:PRO:O	1:D:1188:LEU:HB2	2.21	0.41
1:D:1584:GLY:HA2	1:D:1617:ILE:HD12	2.03	0.41
1:D:1704:THR:HG23	1:D:1714:PRO:HG3	2.02	0.41
1:D:1708:ASN:C	1:D:1710:GLU:H	2.27	0.41
1:D:1711:LEU:HD23	1:D:1711:LEU:HA	1.88	0.41
1:E:71:ALA:CB	2:J:371:HIS:HB2	2.51	0.41
1:E:358:PHE:HD2	1:E:359:VAL:N	2.18	0.41
1:E:390:ALA:O	1:E:713:PRO:HB2	2.20	0.41
1:E:397:ARG:HD3	1:E:397:ARG:N	2.36	0.41
1:E:443:LEU:HD12	1:E:443:LEU:H	1.85	0.41
1:E:530:GLY:O	1:E:611:THR:HG21	2.21	0.41
1:E:612:ILE:HG23	1:E:613:PRO:HD2	2.01	0.41
1:E:632:LEU:CA	1:E:635:ILE:HG22	2.47	0.41
1:E:1321:MET:HE2	1:E:1321:MET:HB3	1.84	0.41
1:E:1703:VAL:HG22	1:E:1712:LYS:C	2.45	0.41
1:F:24:MET:HB3	2:L:2043:VAL:HG12	2.02	0.41
1:F:452:ILE:CD1	1:F:467:LYS:HA	2.51	0.41
1:F:613:PRO:HD2	1:F:628:TYR:CE2	2.55	0.41
1:F:984:LEU:HD21	1:F:1510:TRP:O	2.21	0.41
1:F:1183:VAL:HG11	1:F:1187:THR:CG2	2.44	0.41
1:F:1687:TYR:HD2	1:F:1713:PHE:CD1	2.39	0.41
2:G:38:PRO:CD	2:G:104:LEU:HD11	2.50	0.41
2:G:200:LEU:H	2:G:200:LEU:HD23	1.86	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:G:858:LEU:CD2	2:G:864:PRO:HA	2.51	0.41
2:G:912:LYS:HG2	2:G:1029:PRO:C	2.46	0.41
2:G:931:TYR:CZ	2:G:1008:ILE:HA	2.56	0.41
2:G:1047:LEU:H	2:G:1047:LEU:CD1	2.29	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:1616:VAL:HG13	2:G:1635:TYR:OH	2.20	0.41
2:G:1957:MET:HE3	2:G:1962:LEU:HD21	2.03	0.41
2:H:235:GLU:H	2:H:235:GLU:CD	2.29	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: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:HD12	2:H:396:ILE:N	2.34	0.41
2:H:462:ALA:HB3	2:H:483:ASP:H	1.85	0.41
2:H:490:LEU:HD23	2:H:493:MET:SD	2.60	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: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: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:1323:ASP:C	2:H:1583:VAL:HG11	2.46	0.41
2:H:1346:MET:CE	2:H:1617:ARG:NH2	2.82	0.41
2:H:1378:ASN:HD22	2:H:1431:SER:CB	2.33	0.41
2:H:1383:VAL:CG2	2:H:1428:TYR:HE1	2.33	0.41
2:H:1406:ASN:OD1	2:H:1406:ASN:N	2.52	0.41
2:H:1604:GLY:O	2:H:1644:LEU:HD22	2.21	0.41
2:H:1803:THR:C	2:H:1805:PHE:N	2.75	0.41
2:H:1810:LEU:HA	2:H:1810:LEU:HD23	1.88	0.41
2:I:168:LYS:H	2:I:511:THR:HB	1.85	0.41
2:I:283:THR:HG23	2:I:470:TYR:O	2.21	0.41
2:I:310:ARG:HH12	2:I:459:LYS:H	1.68	0.41
2:I:339:SER:O	2:I:344:GLU:HB2	2.21	0.41
2:I:609:THR:HG22	2:I:633:GLY:CA	2.51	0.41
2:I:641:MET:CE	2:I:676:LEU:HD12	2.51	0.41
2:I:718:PRO:HG2	2:I:741:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:820:LYS:HB3	2:I:1080:ASP:C	2.46	0.41
2:I:979:LEU:HD21	2:I:999:ALA:CB	2.51	0.41
2:I:1015:HIS:O	2:I:1016:PHE:C	2.64	0.41
2:I:1229:VAL:CG1	2:I:1230:LYS:N	2.84	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:1960:MET:HE2	2:I:1964:ASP:C	2.46	0.41
2:I:1969:LEU:HA	2:I:1972:ILE:CD1	2.51	0.41
2:I:2073:ASN:O	2:I:2076:LYS:N	2.53	0.41
2:J:41:LEU:HD13	2:J:100:GLU:HB3	2.02	0.41
2:J:95:HIS:CB	2:J:96:PRO:HD3	2.49	0.41
2:J:388:ASN:C	2:J:388:ASN:ND2	2.76	0.41
2:J:716:PHE:HD1	2:J:727:VAL:HG13	1.85	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:J:1301:PHE:HB3	2:J:1364:ARG:NH1	2.36	0.41
2:J:1464:LEU:HD13	2:J:1464:LEU:C	2.46	0.41
2:J:1594:ARG:NH1	2:J:1595:VAL:HG13	2.36	0.41
2:J:1764:MET:HB3	2:J:1780:ILE:CG1	2.51	0.41
2:J:1805:PHE:C	2:J:1808:PRO:HD2	2.46	0.41
2:J:1940:ALA:HA	2:J:1995:THR:HG21	2.02	0.41
2:J:2009:PHE:HD2	2:J:2009:PHE:O	2.03	0.41
2:K:31:LEU:HD13	2:K:75:LEU:HG	2.02	0.41
2:K:44:GLN:O	2:K:48:LEU:HG	2.20	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:656:ARG:HD2	2:K:656:ARG:HA	1.91	0.41
2:K:717:LYS:HD2	4:K:2101:FMN:O2	2.21	0.41
2:K:740:ILE:HD12	2:K:740:ILE:H	1.86	0.41
2:K:875:PHE:HE2	2:K:906:LEU:HD23	1.85	0.41
2:K:912:LYS:HG2	2:K:1029:PRO:C	2.46	0.41
2:K:1028:VAL:HA	2:K:1029:PRO:HD3	1.72	0.41
2:K:1125:ASP:C	2:K:1127:GLU:N	2.78	0.41
2:K:1375:HIS:CE1	2:K:1610:MET:SD	3.12	0.41
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:1464:LEU:HD13	2:K:1464:LEU:C	2.46	0.41
2:K:1940:ALA:HA	2:K:1995:THR:HG21	2.02	0.41
2:K:1960:MET:HE2	2:K:1964:ASP:C	2.46	0.41
2:K:1969:LEU:HA	2:K:1972:ILE:CD1	2.50	0.41
2:K:2038:LYS:HA	2:K:2038:LYS:HD3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1343:PHE:CE2	2:L:1388:PRO:HD2	2.56	0.41
2:L:1447:GLN:HB3	2:L:1496:VAL:HG13	2.03	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:1991:ARG:HE	2:L:1996:ILE:HG12	1.86	0.41
2:L:2053:GLU:H	2:L:2053:GLU:HG3	1.68	0.41
1:A:423:ARG:C	1:A:429:ILE:HD11	2.45	0.41
1:A:743:VAL:C	1:A:745:PRO:HD3	2.46	0.41
1:B:481:LEU:C	1:B:483:LYS:H	2.29	0.41
1:B:967:PHE:HB3	1:B:968:PRO:HD2	2.02	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: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:C:962:ASN:CB	2:I:969:ARG:HD2	2.51	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:D:619:LYS:HB2	1:D:619:LYS:HE3	1.85	0.41
1:D:715:ASN:ND2	3:D:1901:NAP:H62A	2.19	0.41
1:D:743:VAL:C	1:D:745:PRO:HD3	2.45	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:1521:SER:HB2	1:D:1577:CYS:SG	2.61	0.41
1:D:1562:THR:HB	1:D:1572:TRP:CZ3	2.55	0.41
1:E:49:PRO:HB2	2:K:1699:SER:O	2.21	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:848:ARG:O	1:E:849:GLY:C	2.65	0.41
1:E:970:LEU:HD21	1:E:1658:VAL:HG11	2.03	0.41
1:E:1068:TYR:O	1:E:1069:GLU:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1562:THR:HB	1:E:1572:TRP:CZ3	2.56	0.41
1:E:1698:ASN:HA	1:E:1699:PRO:HD3	1.83	0.41
1:F:481:LEU:C	1:F:483:LYS:H	2.29	0.41
1:F:1491:ASN:ND2	1:F:1491:ASN:N	2.69	0.41
2:G:68:GLU:HB3	2:G:69:PRO:CD	2.51	0.41
2:G:946:HIS:CE1	2:G:947:GLU:HG3	2.56	0.41
2:H:36:LEU:HD12	2:H:36:LEU:HA	1.92	0.41
2:H:200:LEU:HD23	2:H:200:LEU:H	1.86	0.41
2:H:228:LEU:O	2:H:232:HIS:CD2	2.71	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:H:1759:GLN:HE22	2:H:1762:MET:HE2	1.86	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:I:60:THR:HG22	2:I:62:GLU:HG3	2.03	0.41
2:I:216:ASP:CB	2:I:321:ARG:HH12	2.34	0.41
2:I:262:MET:HE3	2:I:262:MET:HB3	1.78	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:609:THR:O	2:I:610:PRO:C	2.63	0.41
2:I:856:THR:HA	2:I:865:ILE:O	2.21	0.41
2:I:1332:GLY:C	2:I:1334:ALA:H	2.28	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: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:J:1002:GLU:C	2:J:1004:SER:N	2.79	0.41
2:J:1782:LYS:H	2:J:1782:LYS:HG2	1.72	0.41
2:K:22:ARG:HD2	2:K:42:HIS:CB	2.51	0.41
2:K:137:VAL:O	2:K:141:TYR:HD1	2.04	0.41
2:K:226:ASP:OD2	2:K:229:GLN:HB2	2.20	0.41
2:K:747:ARG:O	2:K:1070:PRO:HD2	2.20	0.41
2:K:894:GLU:OE2	2:K:897:LYS:HD3	2.21	0.41
2:K:942:MET:HE2	2:K:955:LEU:CB	2.36	0.41
2:K:1104:ASP:OD1	2:K:1104:ASP:N	2.54	0.41
2:K:1645:PRO:O	2:K:1646:ASN:HB2	2.20	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:1903:VAL:HG13	2:K:1942:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1918:VAL:HG13	2:K:2006:HIS:CB	2.50	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: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:1047:LEU:H	2:L:1047:LEU:CD1	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
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
1:A:616:HIS:C	1:A:617:LEU:HD23	2.46	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:A:1162:GLY:O	1:A:1354:SER:HA	2.21	0.40
1:B:81:TYR:HE1	2:H:1821:MET:HE3	1.86	0.40
1:B:357:ALA:C	1:E:358:PHE:HD1	2.29	0.40
1:B:506:ILE:HD11	1:B:926:SER:CB	2.51	0.40
1:C:23:ALA:CA	2:I:2007:SER:O	2.69	0.40
1:C:746:PHE:CG	3:C:1901:NAP:H4D	2.56	0.40
1:C:1042:LEU:O	1:C:1043:LYS:HB2	2.21	0.40
1:C:1071:TYR:C	1:C:1071:TYR:CD2	2.99	0.40
1:D:27:ARG:NE	2:J:2043:VAL:O	2.53	0.40
1:D:396:ALA:C	1:D:397:ARG:HD3	2.46	0.40
1:D:409:ASP:CG	1:D:1610:ARG:HH22	2.29	0.40
1:D:828:TRP:NE1	1:D:838:THR:HA	2.31	0.40
1:D:1323:ALA:CB	1:D:1351:PHE:HE2	2.34	0.40
1:E:13:LEU:HG	2:K:2048:PHE:CE1	2.55	0.40
1:E:452:ILE:CD1	1:E:470:GLY:HA3	2.45	0.40
1:E:526:MET:CE	1:E:614:PHE:HB3	2.51	0.40
1:E:534:GLN:HA	1:E:610:GLU:O	2.22	0.40
1:E:1648:LYS:O	1:E:1652:GLU:HB2	2.20	0.40
1:F:352:ARG:HE	1:F:352:ARG:HB2	1.56	0.40
1:F:673:LEU:HD21	1:F:884:MET:HE1	2.04	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:O	1:F:1680:VAL:HG12	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:785:SER:CB	2:G:1094:HIS:CD2	3.04	0.40
2:G:1002:GLU:C	2:G:1004:SER:N	2.77	0.40
2:G:1972:ILE:H	2:G:1972:ILE:HG13	1.39	0.40
2:H:262:MET:HE3	2:H:262:MET:HB3	1.76	0.40
2:H:796:TRP:CZ2	2:H:805:MET:HE2	2.55	0.40
2:H:1106:LYS:HA	2:H:1106:LYS:HD3	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: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: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: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
2:I:1960:MET:HB3	2:I:1964:ASP:CB	2.51	0.40
2:I:2038:LYS:HA	2:I:2038:LYS:HD3	1.88	0.40
2:J:297:THR:HG22	2:J:298:ALA:N	2.36	0.40
2:J:796:TRP:CZ2	2:J:805:MET:HE2	2.56	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:1886:VAL:CG1	2:J:1900:LEU:HD11	2.52	0.40
2:J:1891:ILE:HG22	2:J:1892:SER:N	2.36	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:CB	2.51	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:416:GLN:C	2:K:418:ARG:N	2.79	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:K:1048:TRP:NE1	2:K:1049:GLN:HG2	2.33	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
2:L:1031:VAL:HA	2:L:1032:PRO:HD3	1.69	0.40
2:L:1081:GLU:CD	2:L:1086:ILE:HG23	2.47	0.40
2:L:1725:HIS:CD2	2:L:1854:GLU:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1751:GLY:O	2:L:1752:PRO:C	2.63	0.40
2:L:1805:PHE:C	2:L:1808:PRO:HD2	2.46	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
1:A:11:TYR:CG	2:G:2027:LYS:HG2	2.56	0.40
1:A:56:MET:HE3	1:A:56:MET:HB2	2.00	0.40
1:A:81:TYR:HE1	2:G:1821:MET:HE3	1.81	0.40
1:A:928:ILE:HG12	2:G:1462:GLN:HB2	2.03	0.40
1:A:967:PHE:HB3	1:A:968:PRO:HD2	2.04	0.40
1:A:1554:LEU:HB3	1:A:1586:VAL:HG11	2.04	0.40
1:B:484:PRO:HA	1:B:485:PRO:HD3	1.80	0.40
1:B:1068:TYR:O	1:B:1069:GLU:C	2.62	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:H	1:B:1514:ILE:HG13	1.35	0.40
1:C:502:ALA:CA	1:C:929:ARG:HD3	2.50	0.40
1:C:522:TYR:O	1:C:526:MET:HG2	2.22	0.40
1:C:904:GLY:C	1:C:906:GLN:H	2.28	0.40
1:C:1198:LEU:HD23	1:C:1198:LEU:HA	1.89	0.40
1:C:1268:SER:OG	1:C:1686:PRO:HD3	2.22	0.40
1:D:726:VAL:HG21	1:D:780:ALA:HB3	2.03	0.40
1:D:1050:TRP:HA	1:D:1050:TRP:HE3	1.86	0.40
1:D:1191:LEU:HD23	1:D:1191:LEU:HA	1.82	0.40
1:D:1494:TRP:CG	1:D:1505:GLY:HA3	2.55	0.40
1:E:11:TYR:HD1	2:K:2030:ILE:CD1	2.34	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:E:1102:ILE:H	1:E:1102:ILE:HG13	1.66	0.40
1:E:1310:PHE:CE1	1:E:1315:SER:HB2	2.56	0.40
1:E:1371:MET:C	1:E:1661:ARG:HH12	2.28	0.40
1:E:1692:GLN:HG3	1:E:1696:PHE:CE2	2.56	0.40
1:F:835:ASN:OD1	1:F:835:ASN:N	2.54	0.40
1:F:997:THR:CG2	1:F:1363:MET:HE2	2.50	0.40
1:F:1303:LEU:HD23	1:F:1303:LEU:HA	1.60	0.40
1:F:1589:ASN:C	1:F:1589:ASN:ND2	2.80	0.40
2:G:316:PHE:CD2	2:G:316:PHE:C	2.99	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1455:GLN:HB2	2:G:1551:ILE:CG1	2.51	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: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:2010:LEU:O	2:H:2014:VAL:HG23	2.20	0.40
2:H:2035:LEU:O	2:H:2036:ILE:C	2.64	0.40
2:H:2073:ASN:O	2:H:2076:LYS:N	2.54	0.40
2:I:38:PRO:CD	2:I:104:LEU:HD11	2.46	0.40
2:I:48:LEU:HG	2:I:48:LEU:H	1.51	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: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: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:J:22:ARG:HD2	2:J:42:HIS:CB	2.50	0.40
2:J:208:LEU:HD23	2:J:211:LEU:HD12	2.03	0.40
2:J:685:VAL:HG13	2:J:686:PRO:HD2	2.03	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: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: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: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
2:L:1455:GLN:HB2	2:L:1551:ILE:HG13	2.02	0.40
2:L:1507:VAL:HG23	2:L:1530:TYR:HE2	1.86	0.40
1:A:49:PRO:HG3	2:G:1813:MET:HE3	2.02	0.40
1:A:68:TYR:CD1	2:I:371:HIS:CD2	3.09	0.40
1:A:93:GLU:HA	1:A:94:PRO:HD3	1.82	0.40
1:A:340:LEU:HD12	1:F:347:LEU:HD12	2.02	0.40
1:A:347:LEU:HD12	1:F:340:LEU:HD12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:497:GLN:CD	1:A:511:VAL:HG21	2.45	0.40
1:A:746:PHE:CD1	1:A:800:PRO:HG3	2.56	0.40
1:A:1065:LYS:O	1:A:1069:GLU:HB2	2.21	0.40
1:A:1468:ARG:O	1:A:1469:GLU:C	2.65	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:B:50:SER:HB2	1:B:52:THR:HG23	2.02	0.40
1:B:433:CYS:SG	1:B:473:LEU:HD13	2.61	0.40
1:B:554:ARG:O	1:B:555:GLN:HG3	2.20	0.40
1:B:1104:GLN:NE2	1:D:1106:LEU:HD12	2.36	0.40
1:B:1148:LEU:HA	1:B:1148:LEU:HD23	1.61	0.40
1:B:1393:VAL:N	1:B:1394:PRO:HD3	2.36	0.40
1:B:1414:PRO:HD2	1:D:1473:HIS:CD2	2.57	0.40
1:B:1536:ASP:O	1:B:1540:GLN:HG3	2.22	0.40
1:C:18:LEU:HD21	2:I:1844:LEU:CD1	2.51	0.40
1:C:770:MET:HE2	1:C:770:MET:HB2	1.79	0.40
1:C:1405:ARG:HA	1:F:1697:LEU:O	2.21	0.40
1:C:1687:TYR:CD2	1:C:1687:TYR:N	2.88	0.40
1:D:650:PHE:CE2	1:D:881:LEU:HD22	2.57	0.40
1:E:452:ILE:HD13	1:E:452:ILE:HA	1.91	0.40
1:E:1303:LEU:HD23	1:E:1303:LEU:HA	1.71	0.40
1:F:11:TYR:CD1	2:L:2027:LYS:HA	2.56	0.40
1:F:574:ILE:H	1:F:574:ILE:HG12	1.72	0.40
1:F:1491:ASN:H	1:F:1491:ASN:ND2	2.19	0.40
2:G:48:LEU:HD13	2:G:83:VAL:HG22	2.03	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:931:TYR:CD2	2:G:966:VAL:HG13	2.57	0.40
2:G:1321:VAL:HG12	2:G:1322:ALA:N	2.36	0.40
2:G:1406:ASN:HA	2:G:1411:LYS:HA	2.02	0.40
2:G:1472:TRP:CD2	2:G:1540:VAL:HG22	2.57	0.40
2:G:1520:LYS:HD2	2:G:1520:LYS:N	2.36	0.40
2:G:1624:ALA:HB2	2:G:1665:ILE:HD13	2.03	0.40
2:G:1803:THR:O	2:G:1804:GLN:C	2.62	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:1067:LEU:HD12	2:H:1067:LEU:N	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:I:520:GLY:C	2:I:522:SER:N	2.79	0.40
2:I:616:ASP:OD2	2:I:823:HIS:CE1	2.74	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:876:TRP:C	2:I:876:TRP:HD1	2.25	0.40
2:I:917:ARG:NH1	2:I:921:GLY:O	2.55	0.40
2:I:1321:VAL:HG12	2:I:1322:ALA:N	2.36	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
2:J:1309:PHE:N	2:J:1309:PHE:CD1	2.89	0.40
2:J:1346:MET:HE1	2:J:1632:VAL:O	2.22	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: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:759:GLN:N	2:K:760:PRO:CD	2.83	0.40
2:K:1081:GLU:CD	2:K:1086:ILE:HG23	2.47	0.40
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:L:316:PHE:CD2	2:L:316:PHE:C	2.99	0.40
2:L:381:SER:C	2:L:382:LEU:HD23	2.46	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:937:ARG:CZ	2:L:941:LEU:HD11	2.50	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:1934:ARG:O	2:L:1938:THR:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2007:SER:C	2:L:2009:PHE:H	2.29	0.40
1:A:681:ILE:O	1:A:681:ILE:HG23	2.21	0.40
1:A:1007:ASN:ND2	1:A:1031:MET:HE1	2.37	0.40
1:A:1094:LYS:HE3	1:A:1316:TYR:CG	2.54	0.40
1:A:1435:TRP:HD1	1:E:1427:LEU:HD11	1.86	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:B:1514:ILE:CD1	1:B:1545:LEU:HB3	2.51	0.40
1:C:537:ASN:HB2	1:C:585:MET:SD	2.61	0.40
1:C:1223:GLY:CA	1:C:1276:PRO:HD2	2.51	0.40
1:C:1545:LEU:HD23	1:C:1545:LEU:HA	1.62	0.40
1:D:21:GLN:O	2:J:2006:HIS:HD2	2.03	0.40
1:D:709:LEU:HD23	1:D:709:LEU:HA	1.81	0.40
1:D:1162:GLY:O	1:D:1354:SER:HA	2.21	0.40
1:D:1232:LEU:HD23	1:D:1253:SER:HB2	2.03	0.40
1:E:958:GLU:HA	1:E:959:PRO:HD3	1.85	0.40
1:E:1565:PRO:HG3	1:E:1572:TRP:CH2	2.54	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
1:F:1107:GLU:CG	1:F:1108:PRO:HD2	2.40	0.40
2:G:235:GLU:H	2:G:235:GLU:CD	2.29	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
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:G:1410:GLY:HA2	2:G:1437:GLY:H	1.86	0.40
2:G:1708:LEU:O	2:G:1708:LEU:HD22	2.21	0.40
2:G:1854:GLU:CD	2:G:1854:GLU:H	2.30	0.40
2:G:1913:TRP:NE1	2:G:1934:ARG:HH11	2.19	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:942:MET:HE3	2:H:1029:PRO:CD	2.52	0.40
2:H:1087:LEU:O	2:H:1088:ASP:C	2.64	0.40
2:H:1820:ASP:O	2:H:1823:SER:HB3	2.21	0.40
2:I:162:ALA:CA	2:I:167:VAL:HG22	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:1384:PRO:HB3	2:I:1829:ARG:HH12	1.86	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:1957:MET:HE3	2:I:1962:LEU:HD21	2.04	0.40
2:I:2050:ILE:O	2:I:2050:ILE:HG12	2.21	0.40
2:J:279:PHE:HB2	2:J:467:ILE:HD12	2.02	0.40
2:J:290:VAL:HB	2:J:315:LEU:HD11	2.03	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:890:LYS:HE3	2:J:890:LYS:HB2	1.78	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:HD23	2:J:1810:LEU:HA	1.85	0.40
2:J:1910:VAL:HG11	2:J:1973:ILE:CG2	2.51	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:HB2	2.03	0.40
2:K:376:ARG:NH2	2:L:1340:LYS:CG	2.85	0.40
2:K:396:ILE:HD12	2:K:396:ILE:N	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: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: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
2:L:1041:TRP:CE3	2:L:1041:TRP:HA	2.56	0.40
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: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
1:A:12:THR:CG2	2:G:2066:LYS:HD3	2.51	0.40
1:A:47:ILE:CD1	2:G:1818:PHE:CD1	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:996:VAL:HG11	1:A:1578:LEU:HD11	2.04	0.40
1:A:1104:GLN:HG3	1:A:1105:ASP:O	2.22	0.40
1:A:1268:SER:OG	1:A:1686:PRO:HD3	2.21	0.40
1:A:1527:THR:OG1	1:A:1530:ASN:HB3	2.21	0.40
1:B:1086:PHE:CZ	1:B:1310:PHE:HD2	2.39	0.40
1:B:1365:ALA:O	1:B:1368:ALA:HB3	2.21	0.40
1:B:1371:MET:C	1:B:1661:ARG:HH12	2.30	0.40
1:B:1599:MET:HA	1:B:1602:PHE:HD2	1.87	0.40
1:C:497:GLN:CD	1:C:511:VAL:HG21	2.47	0.40
1:C:681:ILE:O	1:C:681:ILE:HG23	2.21	0.40
1:C:759:ILE:HD12	1:C:759:ILE:N	2.37	0.40
1:C:1185:PRO:O	1:C:1188:LEU:HB2	2.21	0.40
1:C:1280:CYS:HA	1:C:1566:LYS:O	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:D:904:GLY:C	1:D:906:GLN:N	2.79	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:636:TYR:CE1	1:E:883:LEU:HD23	2.57	0.40
1:E:650:PHE:CE2	1:E:881:LEU:HD22	2.57	0.40
1:E:782:LYS:NZ	1:E:786:LYS:HD2	2.35	0.40
1:E:1099:GLU:HA	1:E:1149:LEU:HD23	2.03	0.40
1:E:1191:LEU:HD23	1:E:1191:LEU:HA	1.95	0.40
1:E:1553:VAL:HG22	1:E:1604:TYR:O	2.21	0.40
1:F:23:ALA:HB2	2:L:2010:LEU:C	2.46	0.40
1:F:827:ARG:NH1	1:F:831:GLU:OE2	2.55	0.40
1:F:1199:LEU:C	1:F:1201:SER:N	2.80	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:1468:ARG:O	1:F:1469:GLU:C	2.64	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:G:1083:ILE:HG13	2:G:1083:ILE:H	1.48	0.40
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:H:111:ARG:HE	2:H:111:ARG:HB2	1.71	0.40
2:H:169:ILE:HG22	2:H:279:PHE:CD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:929:MET:HE2	2:H:934:VAL:CG2	2.41	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: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:I:138:ARG:HB2	2:I:192:THR:HA	2.03	0.40
2:I:637:ASN:ND2	2:I:639:GLN:HB3	2.37	0.40
2:I:1048:TRP:NE1	2:I:1049:GLN:HG2	2.34	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:1674:THR:C	2:I:1676:GLU:H	2.29	0.40
2:I:1702:GLN:HE21	2:I:1702:GLN:HB2	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:J:48:LEU:HD11	2:J:101:VAL:HG21	2.03	0.40
2:J:186:LEU:HD23	2:J:186:LEU:HA	1.82	0.40
2:J:497:ASP:HA	2:J:498:PRO:HD3	1.92	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: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:K:24:LEU:CD1	2:K:37:VAL:HG21	2.48	0.40
2:K:123:ALA:O	2:K:126:VAL:HG23	2.22	0.40
2:K:314:LEU:HG	2:K:318:ILE:CD1	2.45	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:K:1265:TYR:CZ	2:K:1267:PRO:HG3	2.54	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:1723:ASP:O	2:K:1724:LYS:C	2.65	0.40
2:K:1733:SER:O	2:K:1737:ILE:HG13	2.22	0.40
2:L:245:SER:HA	2:L:436:THR:OG1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:350:MET:HG3	2:L:435:ILE:CB	2.52	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
2:L:1171:TRP:CG	2:L:1172:ARG:N	2.89	0.40
2:L:1400:GLN:N	2:L:1400:GLN:HE21	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

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%)	10	37
1	B	1458/1878 (78%)	1278 (88%)	160 (11%)	20 (1%)	9	34
1	C	1456/1878 (78%)	1283 (88%)	156 (11%)	17 (1%)	10	37
1	D	1461/1878 (78%)	1276 (87%)	161 (11%)	24 (2%)	7	30
1	E	1450/1878 (77%)	1276 (88%)	155 (11%)	19 (1%)	9	35
1	F	1455/1878 (78%)	1282 (88%)	153 (10%)	20 (1%)	9	34
2	G	2058/2060 (100%)	1789 (87%)	237 (12%)	32 (2%)	7	30
2	H	2058/2060 (100%)	1791 (87%)	230 (11%)	37 (2%)	6	28
2	I	2058/2060 (100%)	1787 (87%)	238 (12%)	33 (2%)	7	30

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	J	2058/2060 (100%)	1784 (87%)	240 (12%)	34 (2%)	7	30
2	K	2058/2060 (100%)	1785 (87%)	239 (12%)	34 (2%)	7	30
2	L	2058/2060 (100%)	1780 (86%)	241 (12%)	37 (2%)	6	28
All	All	21079/23628 (89%)	18381 (87%)	2374 (11%)	324 (2%)	8	32

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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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 ⓘ

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%)	1089 (89%)	131 (11%)	6	25
1	B	1227/1527 (80%)	1093 (89%)	134 (11%)	6	24
1	C	1225/1527 (80%)	1091 (89%)	134 (11%)	6	24
1	D	1229/1527 (80%)	1093 (89%)	136 (11%)	6	24
1	E	1219/1527 (80%)	1084 (89%)	135 (11%)	6	24
1	F	1224/1527 (80%)	1094 (89%)	130 (11%)	6	26
2	G	1752/1752 (100%)	1527 (87%)	225 (13%)	4	18
2	H	1752/1752 (100%)	1522 (87%)	230 (13%)	4	17
2	I	1752/1752 (100%)	1528 (87%)	224 (13%)	4	18
2	J	1752/1752 (100%)	1523 (87%)	229 (13%)	4	17
2	K	1752/1752 (100%)	1526 (87%)	226 (13%)	4	18
2	L	1752/1752 (100%)	1525 (87%)	227 (13%)	4	18
All	All	17856/19674 (91%)	15695 (88%)	2161 (12%)	5	20

All (2161) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	12	THR
1	A	14	LEU
1	A	21	GLN
1	A	27	ARG
1	A	44	ILE
1	A	60	THR
1	A	61	LEU
1	A	358	PHE
1	A	359	VAL
1	A	361	SER
1	A	362	GLN
1	A	365	GLN
1	A	368	LEU

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Mol	Chain	Res	Type
1	A	397	ARG
1	A	400	ASP
1	A	424	VAL
1	A	427	ARG
1	A	441	ASN
1	A	443	LEU
1	A	444	LEU
1	A	448	MET
1	A	452	ILE
1	A	486	VAL
1	A	492	ILE
1	A	500	ILE
1	A	513	ARG
1	A	532	ILE
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	574	ILE
1	A	617	LEU
1	A	684	THR
1	A	687	PHE
1	A	692	THR
1	A	696	GLN
1	A	709	LEU
1	A	711	VAL
1	A	712	VAL
1	A	725	LEU
1	A	736	LEU
1	A	751	GLU
1	A	754	ARG
1	A	770	MET
1	A	772	THR
1	A	783	THR
1	A	793	ARG
1	A	813	LEU
1	A	815	SER
1	A	817	SER
1	A	837	LEU

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Mol	Chain	Res	Type
1	A	843	VAL
1	A	850	THR
1	A	869	ARG
1	A	883	LEU
1	A	911	LEU
1	A	914	LEU
1	A	919	ARG
1	A	946	GLU
1	A	980	LEU
1	A	988	VAL
1	A	995	VAL
1	A	999	LEU
1	A	1017	TYR
1	A	1022	LEU
1	A	1042	LEU
1	A	1079	ARG
1	A	1093	ARG
1	A	1096	LEU
1	A	1106	LEU
1	A	1107	GLU
1	A	1157	ASP
1	A	1158	ARG
1	A	1160	VAL
1	A	1183	VAL
1	A	1186	VAL
1	A	1226	VAL
1	A	1229	THR
1	A	1232	LEU
1	A	1249	ILE
1	A	1267	LEU
1	A	1273	ILE
1	A	1274	LYS
1	A	1288	ASP
1	A	1293	THR
1	A	1294	ILE
1	A	1313	GLU
1	A	1317	GLU
1	A	1324	THR
1	A	1342	ARG
1	A	1344	THR
1	A	1347	THR
1	A	1360	GLN

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Mol	Chain	Res	Type
1	A	1361	VAL
1	A	1366	GLN
1	A	1367	LEU
1	A	1386	THR
1	A	1387	ASP
1	A	1400	VAL
1	A	1401	LEU
1	A	1418	ILE
1	A	1441	LEU
1	A	1457	GLU
1	A	1464	THR
1	A	1491	ASN
1	A	1504	ARG
1	A	1509	THR
1	A	1513	THR
1	A	1514	ILE
1	A	1528	VAL
1	A	1538	ILE
1	A	1545	LEU
1	A	1553	VAL
1	A	1554	LEU
1	A	1561	LEU
1	A	1593	ASP
1	A	1603	ASP
1	A	1606	VAL
1	A	1617	ILE
1	A	1623	THR
1	A	1646	LEU
1	A	1662	GLN
1	A	1673	LEU
1	A	1702	ARG
1	A	1703	VAL
1	A	1707	SER
1	B	1	MET
1	B	12	THR
1	B	14	LEU
1	B	21	GLN
1	B	27	ARG
1	B	60	THR
1	B	61	LEU
1	B	359	VAL
1	B	361	SER

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Mol	Chain	Res	Type
1	B	365	GLN
1	B	368	LEU
1	B	382	ILE
1	B	397	ARG
1	B	400	ASP
1	B	414	TYR
1	B	424	VAL
1	B	427	ARG
1	B	441	ASN
1	B	443	LEU
1	B	444	LEU
1	B	448	MET
1	B	452	ILE
1	B	465	LEU
1	B	486	VAL
1	B	492	ILE
1	B	499	THR
1	B	500	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	579	MET
1	B	617	LEU
1	B	684	THR
1	B	687	PHE
1	B	692	THR
1	B	696	GLN
1	B	709	LEU
1	B	711	VAL
1	B	712	VAL
1	B	725	LEU
1	B	736	LEU
1	B	751	GLU
1	B	754	ARG
1	B	756	ILE
1	B	770	MET
1	B	772	THR
1	B	783	THR
1	B	793	ARG

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Mol	Chain	Res	Type
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	914	LEU
1	B	919	ARG
1	B	942	VAL
1	B	980	LEU
1	B	988	VAL
1	B	995	VAL
1	B	999	LEU
1	B	1017	TYR
1	B	1022	LEU
1	B	1042	LEU
1	B	1079	ARG
1	B	1093	ARG
1	B	1096	LEU
1	B	1106	LEU
1	B	1107	GLU
1	B	1157	ASP
1	B	1158	ARG
1	B	1160	VAL
1	B	1183	VAL
1	B	1186	VAL
1	B	1226	VAL
1	B	1232	LEU
1	B	1249	ILE
1	B	1267	LEU
1	B	1273	ILE
1	B	1274	LYS
1	B	1288	ASP
1	B	1293	THR
1	B	1294	ILE
1	B	1313	GLU
1	B	1317	GLU
1	B	1324	THR

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Mol	Chain	Res	Type
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	1387	ASP
1	B	1400	VAL
1	B	1401	LEU
1	B	1418	ILE
1	B	1441	LEU
1	B	1457	GLU
1	B	1462	ASP
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	1528	VAL
1	B	1538	ILE
1	B	1545	LEU
1	B	1553	VAL
1	B	1554	LEU
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	1646	LEU
1	B	1662	GLN
1	B	1673	LEU
1	B	1691	ILE
1	B	1702	ARG
1	B	1703	VAL
1	B	1707	SER
1	C	1	MET

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Mol	Chain	Res	Type
1	C	12	THR
1	C	14	LEU
1	C	21	GLN
1	C	27	ARG
1	C	60	THR
1	C	61	LEU
1	C	358	PHE
1	C	359	VAL
1	C	361	SER
1	C	365	GLN
1	C	368	LEU
1	C	397	ARG
1	C	400	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	452	ILE
1	C	465	LEU
1	C	486	VAL
1	C	492	ILE
1	C	500	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
1	C	574	ILE
1	C	617	LEU
1	C	684	THR
1	C	687	PHE
1	C	692	THR
1	C	696	GLN
1	C	709	LEU
1	C	711	VAL
1	C	712	VAL
1	C	725	LEU

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Mol	Chain	Res	Type
1	C	736	LEU
1	C	751	GLU
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	911	LEU
1	C	914	LEU
1	C	919	ARG
1	C	946	GLU
1	C	980	LEU
1	C	988	VAL
1	C	995	VAL
1	C	999	LEU
1	C	1017	TYR
1	C	1022	LEU
1	C	1042	LEU
1	C	1079	ARG
1	C	1093	ARG
1	C	1096	LEU
1	C	1106	LEU
1	C	1107	GLU
1	C	1157	ASP
1	C	1158	ARG
1	C	1160	VAL
1	C	1183	VAL
1	C	1186	VAL
1	C	1226	VAL
1	C	1229	THR
1	C	1232	LEU
1	C	1249	ILE
1	C	1267	LEU

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Mol	Chain	Res	Type
1	C	1273	ILE
1	C	1274	LYS
1	C	1288	ASP
1	C	1293	THR
1	C	1294	ILE
1	C	1313	GLU
1	C	1317	GLU
1	C	1324	THR
1	C	1342	ARG
1	C	1344	THR
1	C	1347	THR
1	C	1353	GLU
1	C	1360	GLN
1	C	1361	VAL
1	C	1366	GLN
1	C	1367	LEU
1	C	1386	THR
1	C	1387	ASP
1	C	1400	VAL
1	C	1401	LEU
1	C	1418	ILE
1	C	1432	ILE
1	C	1441	LEU
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	1513	THR
1	C	1514	ILE
1	C	1528	VAL
1	C	1538	ILE
1	C	1545	LEU
1	C	1553	VAL
1	C	1554	LEU
1	C	1561	LEU
1	C	1593	ASP
1	C	1603	ASP
1	C	1606	VAL
1	C	1617	ILE
1	C	1623	THR

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Mol	Chain	Res	Type
1	C	1646	LEU
1	C	1662	GLN
1	C	1673	LEU
1	C	1691	ILE
1	C	1702	ARG
1	C	1703	VAL
1	C	1707	SER
1	D	1	MET
1	D	12	THR
1	D	14	LEU
1	D	21	GLN
1	D	27	ARG
1	D	39	LYS
1	D	60	THR
1	D	61	LEU
1	D	359	VAL
1	D	361	SER
1	D	365	GLN
1	D	368	LEU
1	D	397	ARG
1	D	400	ASP
1	D	414	TYR
1	D	424	VAL
1	D	427	ARG
1	D	441	ASN
1	D	443	LEU
1	D	444	LEU
1	D	448	MET
1	D	452	ILE
1	D	465	LEU
1	D	486	VAL
1	D	492	ILE
1	D	500	ILE
1	D	513	ARG
1	D	532	ILE
1	D	540	LYS
1	D	547	SER
1	D	552	ILE
1	D	557	ARG
1	D	561	SER
1	D	562	SER
1	D	564	LEU

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Mol	Chain	Res	Type
1	D	570	TYR
1	D	574	ILE
1	D	575	ARG
1	D	579	MET
1	D	581	GLU
1	D	582	SER
1	D	584	ILE
1	D	617	LEU
1	D	684	THR
1	D	687	PHE
1	D	692	THR
1	D	696	GLN
1	D	709	LEU
1	D	711	VAL
1	D	712	VAL
1	D	725	LEU
1	D	736	LEU
1	D	751	GLU
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	869	ARG
1	D	883	LEU
1	D	911	LEU
1	D	914	LEU
1	D	919	ARG
1	D	946	GLU
1	D	980	LEU
1	D	988	VAL
1	D	995	VAL
1	D	999	LEU
1	D	1017	TYR
1	D	1022	LEU
1	D	1042	LEU

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Mol	Chain	Res	Type
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	1160	VAL
1	D	1183	VAL
1	D	1186	VAL
1	D	1226	VAL
1	D	1229	THR
1	D	1232	LEU
1	D	1249	ILE
1	D	1267	LEU
1	D	1273	ILE
1	D	1274	LYS
1	D	1288	ASP
1	D	1293	THR
1	D	1294	ILE
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	1400	VAL
1	D	1401	LEU
1	D	1418	ILE
1	D	1441	LEU
1	D	1457	GLU
1	D	1462	ASP
1	D	1464	THR
1	D	1482	GLU
1	D	1491	ASN
1	D	1504	ARG
1	D	1509	THR
1	D	1514	ILE

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Mol	Chain	Res	Type
1	D	1528	VAL
1	D	1538	ILE
1	D	1545	LEU
1	D	1553	VAL
1	D	1554	LEU
1	D	1561	LEU
1	D	1564	HIS
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	D	1703	VAL
1	E	1	MET
1	E	12	THR
1	E	14	LEU
1	E	21	GLN
1	E	27	ARG
1	E	44	ILE
1	E	60	THR
1	E	61	LEU
1	E	358	PHE
1	E	359	VAL
1	E	361	SER
1	E	365	GLN
1	E	368	LEU
1	E	382	ILE
1	E	397	ARG
1	E	400	ASP
1	E	424	VAL
1	E	427	ARG
1	E	429	ILE
1	E	441	ASN
1	E	443	LEU
1	E	444	LEU
1	E	448	MET
1	E	452	ILE
1	E	486	VAL

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Mol	Chain	Res	Type
1	E	492	ILE
1	E	500	ILE
1	E	513	ARG
1	E	532	ILE
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	574	ILE
1	E	617	LEU
1	E	684	THR
1	E	687	PHE
1	E	692	THR
1	E	696	GLN
1	E	709	LEU
1	E	711	VAL
1	E	712	VAL
1	E	725	LEU
1	E	736	LEU
1	E	751	GLU
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
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	908	ILE
1	E	911	LEU
1	E	914	LEU
1	E	919	ARG
1	E	946	GLU
1	E	980	LEU
1	E	988	VAL

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Mol	Chain	Res	Type
1	E	995	VAL
1	E	999	LEU
1	E	1017	TYR
1	E	1022	LEU
1	E	1042	LEU
1	E	1079	ARG
1	E	1093	ARG
1	E	1096	LEU
1	E	1106	LEU
1	E	1107	GLU
1	E	1157	ASP
1	E	1158	ARG
1	E	1160	VAL
1	E	1183	VAL
1	E	1186	VAL
1	E	1226	VAL
1	E	1229	THR
1	E	1232	LEU
1	E	1249	ILE
1	E	1267	LEU
1	E	1273	ILE
1	E	1274	LYS
1	E	1288	ASP
1	E	1293	THR
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	1353	GLU
1	E	1360	GLN
1	E	1361	VAL
1	E	1366	GLN
1	E	1367	LEU
1	E	1386	THR
1	E	1387	ASP
1	E	1400	VAL
1	E	1401	LEU
1	E	1418	ILE
1	E	1441	LEU
1	E	1457	GLU

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Mol	Chain	Res	Type
1	E	1462	ASP
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	1528	VAL
1	E	1538	ILE
1	E	1545	LEU
1	E	1553	VAL
1	E	1554	LEU
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	1646	LEU
1	E	1662	GLN
1	E	1673	LEU
1	E	1702	ARG
1	E	1703	VAL
1	E	1707	SER
1	E	1708	ASN
1	F	1	MET
1	F	12	THR
1	F	14	LEU
1	F	21	GLN
1	F	27	ARG
1	F	35	ILE
1	F	60	THR
1	F	61	LEU
1	F	359	VAL
1	F	361	SER
1	F	365	GLN
1	F	368	LEU
1	F	382	ILE
1	F	397	ARG
1	F	400	ASP
1	F	424	VAL

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Mol	Chain	Res	Type
1	F	427	ARG
1	F	441	ASN
1	F	443	LEU
1	F	444	LEU
1	F	448	MET
1	F	452	ILE
1	F	486	VAL
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	579	MET
1	F	585	MET
1	F	612	ILE
1	F	613	PRO
1	F	617	LEU
1	F	684	THR
1	F	687	PHE
1	F	692	THR
1	F	696	GLN
1	F	709	LEU
1	F	711	VAL
1	F	712	VAL
1	F	725	LEU
1	F	736	LEU
1	F	751	GLU
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

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Mol	Chain	Res	Type
1	F	869	ARG
1	F	883	LEU
1	F	911	LEU
1	F	914	LEU
1	F	919	ARG
1	F	980	LEU
1	F	988	VAL
1	F	995	VAL
1	F	999	LEU
1	F	1017	TYR
1	F	1022	LEU
1	F	1042	LEU
1	F	1079	ARG
1	F	1106	LEU
1	F	1107	GLU
1	F	1157	ASP
1	F	1160	VAL
1	F	1164	ILE
1	F	1183	VAL
1	F	1186	VAL
1	F	1226	VAL
1	F	1229	THR
1	F	1232	LEU
1	F	1249	ILE
1	F	1267	LEU
1	F	1273	ILE
1	F	1274	LYS
1	F	1288	ASP
1	F	1293	THR
1	F	1294	ILE
1	F	1313	GLU
1	F	1317	GLU
1	F	1324	THR
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

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Mol	Chain	Res	Type
1	F	1387	ASP
1	F	1400	VAL
1	F	1401	LEU
1	F	1418	ILE
1	F	1432	ILE
1	F	1441	LEU
1	F	1457	GLU
1	F	1462	ASP
1	F	1464	THR
1	F	1482	GLU
1	F	1491	ASN
1	F	1504	ARG
1	F	1509	THR
1	F	1514	ILE
1	F	1528	VAL
1	F	1538	ILE
1	F	1545	LEU
1	F	1553	VAL
1	F	1554	LEU
1	F	1561	LEU
1	F	1593	ASP
1	F	1603	ASP
1	F	1606	VAL
1	F	1617	ILE
1	F	1623	THR
1	F	1646	LEU
1	F	1673	LEU
1	F	1702	ARG
1	F	1703	VAL
1	F	1707	SER
2	G	30	SER
2	G	31	LEU
2	G	32	GLU
2	G	37	VAL
2	G	48	LEU
2	G	62	GLU
2	G	63	LEU
2	G	101	VAL
2	G	119	VAL
2	G	126	VAL
2	G	129	ILE
2	G	134	ILE

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Mol	Chain	Res	Type
2	G	155	ASP
2	G	158	LEU
2	G	167	VAL
2	G	172	ILE
2	G	179	ILE
2	G	195	SER
2	G	197	VAL
2	G	218	VAL
2	G	252	LEU
2	G	257	GLN
2	G	262	MET
2	G	264	THR
2	G	276	LEU
2	G	289	ILE
2	G	295	ILE
2	G	297	THR
2	G	300	THR
2	G	302	ASP
2	G	329	THR
2	G	334	SER
2	G	339	SER
2	G	346	THR
2	G	351	LEU
2	G	356	LEU
2	G	378	ILE
2	G	382	LEU
2	G	387	ARG
2	G	388	ASN
2	G	401	LEU
2	G	436	THR
2	G	464	SER
2	G	467	ILE
2	G	472	THR
2	G	474	THR
2	G	484	GLU
2	G	486	ILE
2	G	489	GLU
2	G	526	VAL
2	G	549	ASN
2	G	552	VAL
2	G	570	VAL
2	G	573	VAL

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Mol	Chain	Res	Type
2	G	583	THR
2	G	597	LEU
2	G	600	VAL
2	G	604	MET
2	G	609	THR
2	G	616	ASP
2	G	618	VAL
2	G	645	ILE
2	G	652	ILE
2	G	663	ILE
2	G	670	MET
2	G	685	VAL
2	G	690	LEU
2	G	709	LEU
2	G	726	GLN
2	G	727	VAL
2	G	739	ILE
2	G	747	ARG
2	G	751	HIS
2	G	757	PHE
2	G	763	LEU
2	G	786	GLU
2	G	788	THR
2	G	814	SER
2	G	818	THR
2	G	821	GLU
2	G	827	GLN
2	G	843	TRP
2	G	846	THR
2	G	855	ILE
2	G	856	THR
2	G	857	VAL
2	G	870	THR
2	G	876	TRP
2	G	878	GLU
2	G	883	ILE
2	G	887	ASP
2	G	900	ASP
2	G	903	ILE
2	G	904	LYS
2	G	906	LEU
2	G	909	ASP

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Mol	Chain	Res	Type
2	G	913	VAL
2	G	917	ARG
2	G	918	ASN
2	G	924	VAL
2	G	935	VAL
2	G	941	LEU
2	G	944	VAL
2	G	964	ARG
2	G	971	THR
2	G	979	LEU
2	G	986	LEU
2	G	995	ARG
2	G	1002	GLU
2	G	1004	SER
2	G	1007	LEU
2	G	1008	ILE
2	G	1009	ASN
2	G	1028	VAL
2	G	1036	GLU
2	G	1047	LEU
2	G	1050	SER
2	G	1053	ILE
2	G	1061	VAL
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	1114	GLU
2	G	1120	ILE
2	G	1171	TRP
2	G	1180	VAL
2	G	1186	ARG
2	G	1194	ARG
2	G	1200	ARG
2	G	1206	ILE
2	G	1207	THR
2	G	1217	ILE
2	G	1225	SER
2	G	1234	ILE
2	G	1235	LYS

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Mol	Chain	Res	Type
2	G	1242	ILE
2	G	1246	LEU
2	G	1250	ARG
2	G	1259	LEU
2	G	1265	TYR
2	G	1266	HIS
2	G	1279	GLU
2	G	1299	VAL
2	G	1305	LEU
2	G	1321	VAL
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	1406	ASN
2	G	1409	SER
2	G	1421	ARG
2	G	1424	LYS
2	G	1426	VAL
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	1551	ILE
2	G	1563	LEU
2	G	1564	SER
2	G	1583	VAL
2	G	1590	ILE
2	G	1593	SER
2	G	1594	ARG
2	G	1595	VAL
2	G	1602	LEU

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Mol	Chain	Res	Type
2	G	1622	THR
2	G	1628	ASN
2	G	1639	MET
2	G	1643	VAL
2	G	1649	ILE
2	G	1674	THR
2	G	1689	VAL
2	G	1690	THR
2	G	1707	ASP
2	G	1708	LEU
2	G	1709	TYR
2	G	1740	ASN
2	G	1745	LEU
2	G	1746	THR
2	G	1767	GLU
2	G	1768	THR
2	G	1783	GLU
2	G	1789	THR
2	G	1792	THR
2	G	1803	THR
2	G	1804	GLN
2	G	1812	LEU
2	G	1813	MET
2	G	1823	SER
2	G	1850	VAL
2	G	1854	GLU
2	G	1866	THR
2	G	1871	VAL
2	G	1873	ARG
2	G	1896	THR
2	G	1900	LEU
2	G	1919	ASN
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	2036	ILE
2	G	2039	TYR
2	G	2049	GLU
2	G	2052	LYS

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Mol	Chain	Res	Type
2	G	2062	THR
2	G	2064	SER
2	G	2067	ILE
2	H	30	SER
2	H	31	LEU
2	H	32	GLU
2	H	37	VAL
2	H	48	LEU
2	H	62	GLU
2	H	63	LEU
2	H	86	GLU
2	H	101	VAL
2	H	119	VAL
2	H	126	VAL
2	H	129	ILE
2	H	134	ILE
2	H	155	ASP
2	H	158	LEU
2	H	167	VAL
2	H	172	ILE
2	H	179	ILE
2	H	195	SER
2	H	197	VAL
2	H	218	VAL
2	H	252	LEU
2	H	262	MET
2	H	276	LEU
2	H	289	ILE
2	H	295	ILE
2	H	297	THR
2	H	300	THR
2	H	302	ASP
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	378	ILE
2	H	381	SER
2	H	382	LEU
2	H	387	ARG

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Mol	Chain	Res	Type
2	H	388	ASN
2	H	401	LEU
2	H	436	THR
2	H	464	SER
2	H	467	ILE
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	526	VAL
2	H	549	ASN
2	H	552	VAL
2	H	570	VAL
2	H	573	VAL
2	H	583	THR
2	H	597	LEU
2	H	600	VAL
2	H	604	MET
2	H	609	THR
2	H	616	ASP
2	H	618	VAL
2	H	645	ILE
2	H	652	ILE
2	H	663	ILE
2	H	670	MET
2	H	685	VAL
2	H	690	LEU
2	H	709	LEU
2	H	726	GLN
2	H	727	VAL
2	H	739	ILE
2	H	747	ARG
2	H	751	HIS
2	H	757	PHE
2	H	763	LEU
2	H	786	GLU
2	H	788	THR
2	H	814	SER
2	H	818	THR
2	H	821	GLU

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Mol	Chain	Res	Type
2	H	827	GLN
2	H	843	TRP
2	H	846	THR
2	H	855	ILE
2	H	856	THR
2	H	857	VAL
2	H	870	THR
2	H	876	TRP
2	H	878	GLU
2	H	883	ILE
2	H	887	ASP
2	H	900	ASP
2	H	903	ILE
2	H	904	LYS
2	H	906	LEU
2	H	909	ASP
2	H	913	VAL
2	H	917	ARG
2	H	918	ASN
2	H	924	VAL
2	H	935	VAL
2	H	941	LEU
2	H	944	VAL
2	H	964	ARG
2	H	971	THR
2	H	979	LEU
2	H	980	LEU
2	H	984	SER
2	H	986	LEU
2	H	993	VAL
2	H	995	ARG
2	H	996	ILE
2	H	1002	GLU
2	H	1004	SER
2	H	1007	LEU
2	H	1008	ILE
2	H	1009	ASN
2	H	1028	VAL
2	H	1036	GLU
2	H	1047	LEU
2	H	1053	ILE
2	H	1061	VAL

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Mol	Chain	Res	Type
2	H	1065	CYS
2	H	1071	VAL
2	H	1079	ILE
2	H	1083	ILE
2	H	1084	LYS
2	H	1086	ILE
2	H	1104	ASP
2	H	1114	GLU
2	H	1120	ILE
2	H	1171	TRP
2	H	1177	THR
2	H	1180	VAL
2	H	1186	ARG
2	H	1194	ARG
2	H	1200	ARG
2	H	1206	ILE
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	1279	GLU
2	H	1299	VAL
2	H	1305	LEU
2	H	1321	VAL
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	1406	ASN
2	H	1409	SER
2	H	1421	ARG
2	H	1424	LYS
2	H	1426	VAL

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Mol	Chain	Res	Type
2	H	1444	ASN
2	H	1452	VAL
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	1541	ILE
2	H	1551	ILE
2	H	1563	LEU
2	H	1564	SER
2	H	1583	VAL
2	H	1590	ILE
2	H	1593	SER
2	H	1594	ARG
2	H	1595	VAL
2	H	1602	LEU
2	H	1606	ILE
2	H	1622	THR
2	H	1628	ASN
2	H	1639	MET
2	H	1643	VAL
2	H	1649	ILE
2	H	1670	ARG
2	H	1674	THR
2	H	1689	VAL
2	H	1690	THR
2	H	1707	ASP
2	H	1708	LEU
2	H	1709	TYR
2	H	1740	ASN
2	H	1745	LEU
2	H	1746	THR
2	H	1767	GLU
2	H	1768	THR
2	H	1783	GLU
2	H	1789	THR
2	H	1792	THR
2	H	1804	GLN
2	H	1812	LEU

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Mol	Chain	Res	Type
2	H	1813	MET
2	H	1823	SER
2	H	1850	VAL
2	H	1854	GLU
2	H	1866	THR
2	H	1871	VAL
2	H	1873	ARG
2	H	1896	THR
2	H	1900	LEU
2	H	1919	ASN
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	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
2	I	30	SER
2	I	31	LEU
2	I	32	GLU
2	I	37	VAL
2	I	48	LEU
2	I	62	GLU
2	I	63	LEU
2	I	101	VAL
2	I	119	VAL
2	I	126	VAL
2	I	129	ILE
2	I	134	ILE
2	I	155	ASP
2	I	158	LEU
2	I	167	VAL
2	I	172	ILE
2	I	179	ILE
2	I	195	SER
2	I	197	VAL

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Mol	Chain	Res	Type
2	I	218	VAL
2	I	252	LEU
2	I	262	MET
2	I	276	LEU
2	I	289	ILE
2	I	295	ILE
2	I	297	THR
2	I	300	THR
2	I	302	ASP
2	I	329	THR
2	I	334	SER
2	I	339	SER
2	I	346	THR
2	I	351	LEU
2	I	356	LEU
2	I	378	ILE
2	I	381	SER
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	467	ILE
2	I	472	THR
2	I	474	THR
2	I	484	GLU
2	I	486	ILE
2	I	489	GLU
2	I	526	VAL
2	I	549	ASN
2	I	552	VAL
2	I	570	VAL
2	I	573	VAL
2	I	583	THR
2	I	597	LEU
2	I	600	VAL
2	I	604	MET
2	I	609	THR
2	I	616	ASP
2	I	618	VAL
2	I	645	ILE

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Mol	Chain	Res	Type
2	I	652	ILE
2	I	663	ILE
2	I	670	MET
2	I	685	VAL
2	I	690	LEU
2	I	709	LEU
2	I	726	GLN
2	I	727	VAL
2	I	739	ILE
2	I	747	ARG
2	I	751	HIS
2	I	757	PHE
2	I	763	LEU
2	I	786	GLU
2	I	788	THR
2	I	814	SER
2	I	818	THR
2	I	821	GLU
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	887	ASP
2	I	900	ASP
2	I	903	ILE
2	I	904	LYS
2	I	906	LEU
2	I	909	ASP
2	I	913	VAL
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

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Mol	Chain	Res	Type
2	I	979	LEU
2	I	980	LEU
2	I	984	SER
2	I	986	LEU
2	I	993	VAL
2	I	995	ARG
2	I	996	ILE
2	I	1002	GLU
2	I	1004	SER
2	I	1007	LEU
2	I	1008	ILE
2	I	1009	ASN
2	I	1028	VAL
2	I	1036	GLU
2	I	1047	LEU
2	I	1053	ILE
2	I	1061	VAL
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	1114	GLU
2	I	1120	ILE
2	I	1171	TRP
2	I	1180	VAL
2	I	1186	ARG
2	I	1194	ARG
2	I	1200	ARG
2	I	1206	ILE
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	1279	GLU

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Mol	Chain	Res	Type
2	I	1299	VAL
2	I	1305	LEU
2	I	1316	VAL
2	I	1321	VAL
2	I	1338	ARG
2	I	1351	VAL
2	I	1373	LEU
2	I	1383	VAL
2	I	1391	VAL
2	I	1400	GLN
2	I	1405	ILE
2	I	1406	ASN
2	I	1409	SER
2	I	1421	ARG
2	I	1424	LYS
2	I	1426	VAL
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	1523	ILE
2	I	1541	ILE
2	I	1551	ILE
2	I	1563	LEU
2	I	1564	SER
2	I	1583	VAL
2	I	1590	ILE
2	I	1593	SER
2	I	1594	ARG
2	I	1595	VAL
2	I	1602	LEU
2	I	1606	ILE
2	I	1622	THR
2	I	1628	ASN
2	I	1639	MET
2	I	1643	VAL
2	I	1649	ILE
2	I	1670	ARG
2	I	1674	THR

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Mol	Chain	Res	Type
2	I	1689	VAL
2	I	1690	THR
2	I	1707	ASP
2	I	1708	LEU
2	I	1709	TYR
2	I	1740	ASN
2	I	1745	LEU
2	I	1746	THR
2	I	1767	GLU
2	I	1768	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
2	I	1813	MET
2	I	1823	SER
2	I	1854	GLU
2	I	1866	THR
2	I	1871	VAL
2	I	1873	ARG
2	I	1896	THR
2	I	1900	LEU
2	I	1919	ASN
2	I	1951	ILE
2	I	1965	VAL
2	I	1972	ILE
2	I	1977	ARG
2	I	1985	GLN
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	32	GLU
2	J	37	VAL
2	J	48	LEU

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Mol	Chain	Res	Type
2	J	62	GLU
2	J	63	LEU
2	J	86	GLU
2	J	101	VAL
2	J	119	VAL
2	J	126	VAL
2	J	129	ILE
2	J	134	ILE
2	J	155	ASP
2	J	158	LEU
2	J	167	VAL
2	J	172	ILE
2	J	179	ILE
2	J	195	SER
2	J	197	VAL
2	J	218	VAL
2	J	252	LEU
2	J	262	MET
2	J	264	THR
2	J	276	LEU
2	J	289	ILE
2	J	295	ILE
2	J	297	THR
2	J	300	THR
2	J	302	ASP
2	J	329	THR
2	J	339	SER
2	J	346	THR
2	J	351	LEU
2	J	356	LEU
2	J	378	ILE
2	J	381	SER
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	467	ILE
2	J	472	THR
2	J	474	THR
2	J	484	GLU

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Mol	Chain	Res	Type
2	J	486	ILE
2	J	489	GLU
2	J	526	VAL
2	J	549	ASN
2	J	552	VAL
2	J	570	VAL
2	J	573	VAL
2	J	583	THR
2	J	597	LEU
2	J	600	VAL
2	J	604	MET
2	J	609	THR
2	J	616	ASP
2	J	618	VAL
2	J	645	ILE
2	J	652	ILE
2	J	663	ILE
2	J	670	MET
2	J	685	VAL
2	J	690	LEU
2	J	709	LEU
2	J	726	GLN
2	J	727	VAL
2	J	739	ILE
2	J	747	ARG
2	J	751	HIS
2	J	757	PHE
2	J	763	LEU
2	J	786	GLU
2	J	788	THR
2	J	814	SER
2	J	818	THR
2	J	821	GLU
2	J	827	GLN
2	J	843	TRP
2	J	846	THR
2	J	855	ILE
2	J	856	THR
2	J	857	VAL
2	J	870	THR
2	J	876	TRP
2	J	878	GLU

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Mol	Chain	Res	Type
2	J	883	ILE
2	J	887	ASP
2	J	900	ASP
2	J	903	ILE
2	J	904	LYS
2	J	906	LEU
2	J	909	ASP
2	J	913	VAL
2	J	917	ARG
2	J	918	ASN
2	J	924	VAL
2	J	935	VAL
2	J	941	LEU
2	J	944	VAL
2	J	964	ARG
2	J	971	THR
2	J	979	LEU
2	J	980	LEU
2	J	986	LEU
2	J	993	VAL
2	J	995	ARG
2	J	1002	GLU
2	J	1004	SER
2	J	1007	LEU
2	J	1008	ILE
2	J	1009	ASN
2	J	1028	VAL
2	J	1036	GLU
2	J	1047	LEU
2	J	1053	ILE
2	J	1061	VAL
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	1114	GLU
2	J	1120	ILE
2	J	1171	TRP
2	J	1180	VAL
2	J	1186	ARG

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Mol	Chain	Res	Type
2	J	1194	ARG
2	J	1200	ARG
2	J	1206	ILE
2	J	1207	THR
2	J	1217	ILE
2	J	1225	SER
2	J	1234	ILE
2	J	1235	LYS
2	J	1242	ILE
2	J	1246	LEU
2	J	1250	ARG
2	J	1259	LEU
2	J	1265	TYR
2	J	1266	HIS
2	J	1279	GLU
2	J	1294	PHE
2	J	1299	VAL
2	J	1305	LEU
2	J	1321	VAL
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	1406	ASN
2	J	1409	SER
2	J	1421	ARG
2	J	1424	LYS
2	J	1426	VAL
2	J	1436	ARG
2	J	1440	THR
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	1541	ILE

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Mol	Chain	Res	Type
2	J	1551	ILE
2	J	1563	LEU
2	J	1564	SER
2	J	1583	VAL
2	J	1590	ILE
2	J	1593	SER
2	J	1594	ARG
2	J	1595	VAL
2	J	1602	LEU
2	J	1606	ILE
2	J	1622	THR
2	J	1628	ASN
2	J	1639	MET
2	J	1643	VAL
2	J	1649	ILE
2	J	1670	ARG
2	J	1674	THR
2	J	1689	VAL
2	J	1690	THR
2	J	1707	ASP
2	J	1708	LEU
2	J	1709	TYR
2	J	1740	ASN
2	J	1745	LEU
2	J	1746	THR
2	J	1756	ILE
2	J	1767	GLU
2	J	1768	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	1850	VAL
2	J	1854	GLU
2	J	1866	THR
2	J	1873	ARG
2	J	1896	THR
2	J	1900	LEU

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Mol	Chain	Res	Type
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	2008	THR
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	32	GLU
2	K	37	VAL
2	K	48	LEU
2	K	62	GLU
2	K	63	LEU
2	K	86	GLU
2	K	101	VAL
2	K	119	VAL
2	K	126	VAL
2	K	129	ILE
2	K	134	ILE
2	K	155	ASP
2	K	158	LEU
2	K	167	VAL
2	K	172	ILE
2	K	179	ILE
2	K	195	SER
2	K	197	VAL
2	K	218	VAL
2	K	252	LEU
2	K	256	VAL
2	K	257	GLN
2	K	262	MET
2	K	276	LEU
2	K	289	ILE
2	K	295	ILE

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Mol	Chain	Res	Type
2	K	297	THR
2	K	300	THR
2	K	302	ASP
2	K	329	THR
2	K	334	SER
2	K	339	SER
2	K	346	THR
2	K	351	LEU
2	K	356	LEU
2	K	378	ILE
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	467	ILE
2	K	472	THR
2	K	474	THR
2	K	484	GLU
2	K	486	ILE
2	K	489	GLU
2	K	526	VAL
2	K	549	ASN
2	K	552	VAL
2	K	570	VAL
2	K	573	VAL
2	K	583	THR
2	K	597	LEU
2	K	600	VAL
2	K	604	MET
2	K	609	THR
2	K	616	ASP
2	K	618	VAL
2	K	645	ILE
2	K	652	ILE
2	K	663	ILE
2	K	670	MET
2	K	685	VAL
2	K	690	LEU
2	K	709	LEU
2	K	726	GLN

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Mol	Chain	Res	Type
2	K	727	VAL
2	K	739	ILE
2	K	747	ARG
2	K	751	HIS
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	821	GLU
2	K	827	GLN
2	K	843	TRP
2	K	846	THR
2	K	855	ILE
2	K	856	THR
2	K	857	VAL
2	K	870	THR
2	K	876	TRP
2	K	878	GLU
2	K	883	ILE
2	K	887	ASP
2	K	900	ASP
2	K	903	ILE
2	K	904	LYS
2	K	906	LEU
2	K	909	ASP
2	K	913	VAL
2	K	917	ARG
2	K	918	ASN
2	K	924	VAL
2	K	935	VAL
2	K	941	LEU
2	K	944	VAL
2	K	964	ARG
2	K	971	THR
2	K	979	LEU
2	K	980	LEU
2	K	986	LEU
2	K	993	VAL
2	K	995	ARG
2	K	996	ILE

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Mol	Chain	Res	Type
2	K	1002	GLU
2	K	1004	SER
2	K	1007	LEU
2	K	1008	ILE
2	K	1009	ASN
2	K	1028	VAL
2	K	1036	GLU
2	K	1047	LEU
2	K	1053	ILE
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	1120	ILE
2	K	1171	TRP
2	K	1180	VAL
2	K	1186	ARG
2	K	1194	ARG
2	K	1200	ARG
2	K	1206	ILE
2	K	1207	THR
2	K	1217	ILE
2	K	1225	SER
2	K	1234	ILE
2	K	1235	LYS
2	K	1242	ILE
2	K	1246	LEU
2	K	1250	ARG
2	K	1259	LEU
2	K	1265	TYR
2	K	1266	HIS
2	K	1279	GLU
2	K	1299	VAL
2	K	1305	LEU
2	K	1309	PHE
2	K	1321	VAL
2	K	1338	ARG
2	K	1351	VAL
2	K	1373	LEU

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Mol	Chain	Res	Type
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	1426	VAL
2	K	1436	ARG
2	K	1462	GLN
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	1541	ILE
2	K	1551	ILE
2	K	1563	LEU
2	K	1564	SER
2	K	1583	VAL
2	K	1590	ILE
2	K	1592	VAL
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	1649	ILE
2	K	1674	THR
2	K	1689	VAL
2	K	1690	THR
2	K	1707	ASP
2	K	1708	LEU
2	K	1709	TYR
2	K	1740	ASN
2	K	1745	LEU
2	K	1746	THR
2	K	1768	THR

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Mol	Chain	Res	Type
2	K	1783	GLU
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	1850	VAL
2	K	1854	GLU
2	K	1866	THR
2	K	1871	VAL
2	K	1873	ARG
2	K	1896	THR
2	K	1900	LEU
2	K	1918	VAL
2	K	1919	ASN
2	K	1951	ILE
2	K	1965	VAL
2	K	1972	ILE
2	K	1977	ARG
2	K	1985	GLN
2	K	2008	THR
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	30	SER
2	L	31	LEU
2	L	32	GLU
2	L	37	VAL
2	L	48	LEU
2	L	62	GLU
2	L	63	LEU
2	L	86	GLU
2	L	101	VAL
2	L	119	VAL
2	L	126	VAL
2	L	129	ILE

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Mol	Chain	Res	Type
2	L	134	ILE
2	L	155	ASP
2	L	158	LEU
2	L	167	VAL
2	L	172	ILE
2	L	179	ILE
2	L	195	SER
2	L	197	VAL
2	L	218	VAL
2	L	252	LEU
2	L	257	GLN
2	L	262	MET
2	L	264	THR
2	L	276	LEU
2	L	289	ILE
2	L	295	ILE
2	L	297	THR
2	L	300	THR
2	L	302	ASP
2	L	329	THR
2	L	334	SER
2	L	339	SER
2	L	346	THR
2	L	351	LEU
2	L	356	LEU
2	L	378	ILE
2	L	381	SER
2	L	382	LEU
2	L	387	ARG
2	L	388	ASN
2	L	401	LEU
2	L	436	THR
2	L	464	SER
2	L	467	ILE
2	L	472	THR
2	L	474	THR
2	L	477	ASP
2	L	484	GLU
2	L	486	ILE
2	L	489	GLU
2	L	526	VAL
2	L	549	ASN

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Mol	Chain	Res	Type
2	L	552	VAL
2	L	570	VAL
2	L	573	VAL
2	L	583	THR
2	L	597	LEU
2	L	600	VAL
2	L	604	MET
2	L	609	THR
2	L	616	ASP
2	L	618	VAL
2	L	645	ILE
2	L	652	ILE
2	L	663	ILE
2	L	670	MET
2	L	685	VAL
2	L	690	LEU
2	L	709	LEU
2	L	726	GLN
2	L	727	VAL
2	L	739	ILE
2	L	747	ARG
2	L	751	HIS
2	L	757	PHE
2	L	763	LEU
2	L	786	GLU
2	L	814	SER
2	L	818	THR
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	868	LEU
2	L	870	THR
2	L	876	TRP
2	L	878	GLU
2	L	883	ILE
2	L	887	ASP
2	L	900	ASP
2	L	903	ILE

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Mol	Chain	Res	Type
2	L	904	LYS
2	L	906	LEU
2	L	909	ASP
2	L	913	VAL
2	L	917	ARG
2	L	918	ASN
2	L	924	VAL
2	L	935	VAL
2	L	941	LEU
2	L	944	VAL
2	L	964	ARG
2	L	971	THR
2	L	979	LEU
2	L	980	LEU
2	L	986	LEU
2	L	993	VAL
2	L	995	ARG
2	L	996	ILE
2	L	1002	GLU
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	1053	ILE
2	L	1061	VAL
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	1114	GLU
2	L	1120	ILE
2	L	1171	TRP
2	L	1180	VAL
2	L	1186	ARG
2	L	1194	ARG
2	L	1200	ARG
2	L	1206	ILE

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Mol	Chain	Res	Type
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
2	L	1266	HIS
2	L	1279	GLU
2	L	1299	VAL
2	L	1305	LEU
2	L	1321	VAL
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	1406	ASN
2	L	1409	SER
2	L	1421	ARG
2	L	1424	LYS
2	L	1426	VAL
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	1541	ILE
2	L	1551	ILE
2	L	1563	LEU
2	L	1564	SER
2	L	1583	VAL
2	L	1590	ILE
2	L	1593	SER

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Mol	Chain	Res	Type
2	L	1594	ARG
2	L	1595	VAL
2	L	1602	LEU
2	L	1606	ILE
2	L	1622	THR
2	L	1628	ASN
2	L	1639	MET
2	L	1643	VAL
2	L	1649	ILE
2	L	1674	THR
2	L	1689	VAL
2	L	1690	THR
2	L	1707	ASP
2	L	1708	LEU
2	L	1709	TYR
2	L	1740	ASN
2	L	1745	LEU
2	L	1746	THR
2	L	1767	GLU
2	L	1768	THR
2	L	1783	GLU
2	L	1789	THR
2	L	1792	THR
2	L	1803	THR
2	L	1804	GLN
2	L	1812	LEU
2	L	1813	MET
2	L	1823	SER
2	L	1854	GLU
2	L	1866	THR
2	L	1871	VAL
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	2008	THR
2	L	2036	ILE
2	L	2039	TYR

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Mol	Chain	Res	Type
2	L	2049	GLU
2	L	2052	LYS
2	L	2062	THR
2	L	2064	SER
2	L	2067	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (518) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	21	GLN
1	A	75	GLN
1	A	376	GLN
1	A	408	GLN
1	A	472	GLN
1	A	497	GLN
1	A	525	GLN
1	A	542	GLN
1	A	565	GLN
1	A	715	ASN
1	A	716	GLN
1	A	767	HIS
1	A	856	ASN
1	A	873	GLN
1	A	981	ASN
1	A	1038	HIS
1	A	1075	HIS
1	A	1163	GLN
1	A	1214	HIS
1	A	1296	GLN
1	A	1320	ASN
1	A	1360	GLN
1	A	1366	GLN
1	A	1431	GLN
1	A	1473	HIS
1	A	1486	GLN
1	A	1491	ASN
1	A	1541	GLN
1	A	1558	GLN
1	A	1629	GLN
1	A	1662	GLN
1	B	21	GLN
1	B	376	GLN

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Mol	Chain	Res	Type
1	B	408	GLN
1	B	454	HIS
1	B	472	GLN
1	B	525	GLN
1	B	542	GLN
1	B	715	ASN
1	B	716	GLN
1	B	767	HIS
1	B	856	ASN
1	B	873	GLN
1	B	1038	HIS
1	B	1075	HIS
1	B	1123	HIS
1	B	1214	HIS
1	B	1251	GLN
1	B	1296	GLN
1	B	1320	ASN
1	B	1360	GLN
1	B	1366	GLN
1	B	1431	GLN
1	B	1486	GLN
1	B	1491	ASN
1	B	1541	GLN
1	B	1558	GLN
1	B	1601	GLN
1	B	1629	GLN
1	B	1662	GLN
1	B	1670	HIS
1	B	1671	ASN
1	B	1676	ASN
1	C	21	GLN
1	C	75	GLN
1	C	376	GLN
1	C	404	ASN
1	C	408	GLN
1	C	472	GLN
1	C	525	GLN
1	C	542	GLN
1	C	671	GLN
1	C	708	GLN
1	C	715	ASN
1	C	716	GLN

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Mol	Chain	Res	Type
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	1296	GLN
1	C	1320	ASN
1	C	1360	GLN
1	C	1366	GLN
1	C	1473	HIS
1	C	1486	GLN
1	C	1491	ASN
1	C	1541	GLN
1	C	1558	GLN
1	C	1629	GLN
1	C	1662	GLN
1	C	1671	ASN
1	D	21	GLN
1	D	75	GLN
1	D	376	GLN
1	D	408	GLN
1	D	472	GLN
1	D	525	GLN
1	D	542	GLN
1	D	565	GLN
1	D	708	GLN
1	D	715	ASN
1	D	716	GLN
1	D	767	HIS
1	D	856	ASN
1	D	873	GLN
1	D	981	ASN
1	D	1038	HIS
1	D	1075	HIS
1	D	1214	HIS
1	D	1296	GLN
1	D	1320	ASN
1	D	1360	GLN
1	D	1366	GLN
1	D	1431	GLN

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Mol	Chain	Res	Type
1	D	1473	HIS
1	D	1486	GLN
1	D	1491	ASN
1	D	1541	GLN
1	D	1558	GLN
1	D	1601	GLN
1	D	1629	GLN
1	D	1662	GLN
1	D	1671	ASN
1	E	21	GLN
1	E	376	GLN
1	E	408	GLN
1	E	472	GLN
1	E	525	GLN
1	E	542	GLN
1	E	565	GLN
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	981	ASN
1	E	1038	HIS
1	E	1075	HIS
1	E	1163	GLN
1	E	1214	HIS
1	E	1296	GLN
1	E	1320	ASN
1	E	1360	GLN
1	E	1366	GLN
1	E	1431	GLN
1	E	1473	HIS
1	E	1486	GLN
1	E	1491	ASN
1	E	1541	GLN
1	E	1558	GLN
1	E	1629	GLN
1	E	1662	GLN
1	E	1670	HIS
1	F	21	GLN
1	F	75	GLN

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Mol	Chain	Res	Type
1	F	376	GLN
1	F	408	GLN
1	F	454	HIS
1	F	472	GLN
1	F	525	GLN
1	F	542	GLN
1	F	715	ASN
1	F	856	ASN
1	F	873	GLN
1	F	1038	HIS
1	F	1039	ASN
1	F	1075	HIS
1	F	1123	HIS
1	F	1214	HIS
1	F	1296	GLN
1	F	1320	ASN
1	F	1360	GLN
1	F	1366	GLN
1	F	1431	GLN
1	F	1473	HIS
1	F	1486	GLN
1	F	1491	ASN
1	F	1541	GLN
1	F	1558	GLN
1	F	1601	GLN
1	F	1629	GLN
1	F	1662	GLN
1	F	1670	HIS
1	F	1671	ASN
1	F	1676	ASN
2	G	44	GLN
2	G	47	GLN
2	G	65	GLN
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

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Mol	Chain	Res	Type
2	G	512	HIS
2	G	529	ASN
2	G	531	ASN
2	G	549	ASN
2	G	661	ASN
2	G	713	HIS
2	G	725	GLN
2	G	729	ASN
2	G	734	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	1049	GLN
2	G	1094	HIS
2	G	1109	ASN
2	G	1173	HIS
2	G	1378	ASN
2	G	1400	GLN
2	G	1432	GLN
2	G	1455	GLN
2	G	1462	GLN
2	G	1547	HIS
2	G	1556	ASN
2	G	1608	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	1759	GLN
2	G	1804	GLN
2	G	1901	GLN
2	G	1919	ASN
2	G	1921	ASN
2	G	1974	GLN
2	H	42	HIS
2	H	47	GLN
2	H	65	GLN

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Mol	Chain	Res	Type
2	H	220	GLN
2	H	232	HIS
2	H	260	HIS
2	H	285	HIS
2	H	287	GLN
2	H	362	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	531	ASN
2	H	549	ASN
2	H	627	HIS
2	H	661	ASN
2	H	713	HIS
2	H	725	GLN
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	1049	GLN
2	H	1094	HIS
2	H	1173	HIS
2	H	1185	HIS
2	H	1378	ASN
2	H	1400	GLN
2	H	1455	GLN
2	H	1547	HIS
2	H	1556	ASN
2	H	1608	HIS
2	H	1638	ASN
2	H	1646	ASN
2	H	1655	HIS
2	H	1697	GLN
2	H	1702	GLN

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Mol	Chain	Res	Type
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	1921	ASN
2	H	1968	HIS
2	H	1974	GLN
2	H	2006	HIS
2	H	2059	HIS
2	I	44	GLN
2	I	47	GLN
2	I	65	GLN
2	I	220	GLN
2	I	232	HIS
2	I	260	HIS
2	I	285	HIS
2	I	287	GLN
2	I	362	GLN
2	I	371	HIS
2	I	388	ASN
2	I	416	GLN
2	I	430	ASN
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	725	GLN
2	I	729	ASN
2	I	752	HIS
2	I	827	GLN
2	I	845	ASN
2	I	911	GLN
2	I	1006	GLN
2	I	1009	ASN
2	I	1049	GLN
2	I	1094	HIS
2	I	1173	HIS

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Mol	Chain	Res	Type
2	I	1185	HIS
2	I	1378	ASN
2	I	1400	GLN
2	I	1455	GLN
2	I	1547	HIS
2	I	1556	ASN
2	I	1608	HIS
2	I	1628	ASN
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	1759	GLN
2	I	1804	GLN
2	I	1901	GLN
2	I	1919	ASN
2	I	1921	ASN
2	I	1974	GLN
2	I	2006	HIS
2	J	42	HIS
2	J	44	GLN
2	J	47	GLN
2	J	65	GLN
2	J	220	GLN
2	J	232	HIS
2	J	260	HIS
2	J	285	HIS
2	J	287	GLN
2	J	362	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	531	ASN
2	J	549	ASN
2	J	627	HIS
2	J	661	ASN
2	J	713	HIS

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Mol	Chain	Res	Type
2	J	725	GLN
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	1049	GLN
2	J	1094	HIS
2	J	1173	HIS
2	J	1378	ASN
2	J	1400	GLN
2	J	1432	GLN
2	J	1455	GLN
2	J	1547	HIS
2	J	1556	ASN
2	J	1608	HIS
2	J	1628	ASN
2	J	1638	ASN
2	J	1646	ASN
2	J	1655	HIS
2	J	1680	GLN
2	J	1697	GLN
2	J	1702	GLN
2	J	1725	HIS
2	J	1729	ASN
2	J	1748	HIS
2	J	1759	GLN
2	J	1804	GLN
2	J	1901	GLN
2	J	1919	ASN
2	J	1921	ASN
2	J	1974	GLN
2	J	2006	HIS
2	J	2059	HIS
2	K	47	GLN
2	K	65	GLN
2	K	220	GLN
2	K	232	HIS
2	K	260	HIS

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Mol	Chain	Res	Type
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	531	ASN
2	K	549	ASN
2	K	661	ASN
2	K	713	HIS
2	K	725	GLN
2	K	729	ASN
2	K	734	ASN
2	K	752	HIS
2	K	827	GLN
2	K	845	ASN
2	K	911	GLN
2	K	1006	GLN
2	K	1009	ASN
2	K	1049	GLN
2	K	1094	HIS
2	K	1173	HIS
2	K	1185	HIS
2	K	1378	ASN
2	K	1400	GLN
2	K	1455	GLN
2	K	1462	GLN
2	K	1547	HIS
2	K	1556	ASN
2	K	1608	HIS
2	K	1628	ASN
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	1759	GLN

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Mol	Chain	Res	Type
2	K	1804	GLN
2	K	1901	GLN
2	K	1919	ASN
2	K	1921	ASN
2	K	1926	GLN
2	K	1968	HIS
2	K	1974	GLN
2	K	2006	HIS
2	K	2059	HIS
2	L	47	GLN
2	L	65	GLN
2	L	220	GLN
2	L	232	HIS
2	L	260	HIS
2	L	285	HIS
2	L	287	GLN
2	L	362	GLN
2	L	371	HIS
2	L	388	ASN
2	L	416	GLN
2	L	430	ASN
2	L	448	HIS
2	L	512	HIS
2	L	529	ASN
2	L	531	ASN
2	L	549	ASN
2	L	627	HIS
2	L	661	ASN
2	L	713	HIS
2	L	729	ASN
2	L	734	ASN
2	L	752	HIS
2	L	827	GLN
2	L	845	ASN
2	L	911	GLN
2	L	1006	GLN
2	L	1009	ASN
2	L	1014	GLN
2	L	1049	GLN
2	L	1094	HIS
2	L	1109	ASN
2	L	1173	HIS

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Mol	Chain	Res	Type
2	L	1185	HIS
2	L	1378	ASN
2	L	1400	GLN
2	L	1455	GLN
2	L	1547	HIS
2	L	1556	ASN
2	L	1608	HIS
2	L	1638	ASN
2	L	1646	ASN
2	L	1655	HIS
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	1921	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 oligosaccharides 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	I	2102	-	50,52,52	1.15	5 (10%)	71,80,80	1.58	9 (12%)
3	NAP	H	2102	-	50,52,52	1.28	6 (12%)	71,80,80	1.54	8 (11%)
3	NAP	E	1901	-	50,52,52	1.22	4 (8%)	71,80,80	1.63	12 (16%)
3	NAP	B	1901	-	50,52,52	1.23	4 (8%)	71,80,80	1.54	12 (16%)
3	NAP	J	2102	-	50,52,52	1.28	5 (10%)	71,80,80	1.57	11 (15%)
4	FMN	G	2101	-	33,33,33	6.33	23 (69%)	48,50,50	1.35	9 (18%)
3	NAP	A	1901	-	50,52,52	1.27	4 (8%)	71,80,80	1.49	9 (12%)
3	NAP	D	1901	-	50,52,52	1.45	6 (12%)	71,80,80	1.58	11 (15%)
4	FMN	I	2101	-	33,33,33	6.26	23 (69%)	48,50,50	1.37	8 (16%)
4	FMN	K	2101	-	33,33,33	6.53	24 (72%)	48,50,50	1.45	11 (22%)
4	FMN	L	2101	-	33,33,33	6.31	21 (63%)	48,50,50	1.36	10 (20%)
3	NAP	K	2102	-	50,52,52	1.25	7 (14%)	71,80,80	1.58	9 (12%)
4	FMN	H	2101	-	33,33,33	6.34	23 (69%)	48,50,50	1.29	6 (12%)
3	NAP	C	1901	-	50,52,52	1.36	7 (14%)	71,80,80	1.57	11 (15%)
4	FMN	J	2101	-	33,33,33	6.62	24 (72%)	48,50,50	1.37	8 (16%)
3	NAP	G	2102	-	50,52,52	1.28	6 (12%)	71,80,80	1.59	11 (15%)
3	NAP	L	2102	-	50,52,52	1.21	5 (10%)	71,80,80	1.56	9 (12%)
3	NAP	F	1901	-	50,52,52	1.29	5 (10%)	71,80,80	1.50	14 (19%)

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	I	2102	-	-	11/35/67/67	0/5/5/5
3	NAP	H	2102	-	-	12/35/67/67	0/5/5/5
3	NAP	E	1901	-	-	11/35/67/67	0/5/5/5
3	NAP	B	1901	-	-	11/35/67/67	0/5/5/5
3	NAP	J	2102	-	-	13/35/67/67	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	FMN	G	2101	-	-	5/18/18/18	0/3/3/3
3	NAP	A	1901	-	-	11/35/67/67	0/5/5/5
3	NAP	D	1901	-	-	11/35/67/67	0/5/5/5
4	FMN	I	2101	-	-	5/18/18/18	0/3/3/3
4	FMN	K	2101	-	-	5/18/18/18	0/3/3/3
4	FMN	L	2101	-	-	5/18/18/18	0/3/3/3
3	NAP	K	2102	-	-	11/35/67/67	0/5/5/5
4	FMN	H	2101	-	-	5/18/18/18	0/3/3/3
3	NAP	C	1901	-	-	11/35/67/67	0/5/5/5
4	FMN	J	2101	-	-	5/18/18/18	0/3/3/3
3	NAP	G	2102	-	-	13/35/67/67	0/5/5/5
3	NAP	L	2102	-	-	10/35/67/67	0/5/5/5
3	NAP	F	1901	-	-	11/35/67/67	0/5/5/5

All (202) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	2101	FMN	C9-C8	13.60	1.58	1.39
4	J	2101	FMN	C6-C7	13.51	1.58	1.39
4	K	2101	FMN	C6-C7	13.45	1.57	1.39
4	H	2101	FMN	C6-C7	13.29	1.57	1.39
4	G	2101	FMN	C6-C7	12.86	1.57	1.39
4	H	2101	FMN	C9-C9A	12.77	1.60	1.39
4	J	2101	FMN	C9-C9A	12.77	1.60	1.39
4	K	2101	FMN	C9-C9A	12.73	1.60	1.39
4	G	2101	FMN	C9-C8	12.71	1.56	1.39
4	I	2101	FMN	C6-C7	12.63	1.56	1.39
4	L	2101	FMN	C6-C7	12.57	1.56	1.39
4	K	2101	FMN	C9-C8	12.53	1.56	1.39
4	J	2101	FMN	C6-C5A	12.46	1.58	1.40
4	I	2101	FMN	C9-C9A	12.45	1.59	1.39
4	H	2101	FMN	C9-C8	12.42	1.56	1.39
4	G	2101	FMN	C9-C9A	12.36	1.59	1.39
4	L	2101	FMN	C9-C9A	12.34	1.59	1.39
4	K	2101	FMN	C6-C5A	12.25	1.58	1.40
4	G	2101	FMN	C6-C5A	12.19	1.58	1.40
4	L	2101	FMN	C6-C5A	12.19	1.58	1.40
4	I	2101	FMN	C9-C8	12.15	1.56	1.39
4	H	2101	FMN	C6-C5A	12.10	1.58	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	I	2101	FMN	C6-C5A	12.09	1.58	1.40
4	L	2101	FMN	C9-C8	12.08	1.56	1.39
4	J	2101	FMN	O4-C4	9.50	1.41	1.23
4	K	2101	FMN	C4A-N5	9.45	1.51	1.30
4	K	2101	FMN	O4-C4	9.37	1.41	1.23
4	G	2101	FMN	O4-C4	9.33	1.41	1.23
4	J	2101	FMN	C4A-N5	9.27	1.50	1.30
4	J	2101	FMN	C9A-C5A	9.25	1.56	1.41
4	H	2101	FMN	C4A-N5	9.20	1.50	1.30
4	I	2101	FMN	C4A-N5	9.18	1.50	1.30
4	I	2101	FMN	O4-C4	9.11	1.40	1.23
4	H	2101	FMN	O4-C4	9.09	1.40	1.23
4	L	2101	FMN	C4A-N5	9.04	1.50	1.30
4	G	2101	FMN	C4A-N5	8.95	1.50	1.30
4	L	2101	FMN	O4-C4	8.93	1.40	1.23
4	K	2101	FMN	O2-C2	8.74	1.41	1.24
4	L	2101	FMN	C9A-C5A	8.67	1.55	1.41
4	L	2101	FMN	O2-C2	8.48	1.41	1.24
4	G	2101	FMN	O2-C2	8.46	1.41	1.24
4	H	2101	FMN	C9A-C5A	8.44	1.54	1.41
4	I	2101	FMN	O2-C2	8.36	1.40	1.24
4	G	2101	FMN	C9A-C5A	8.34	1.54	1.41
4	K	2101	FMN	C9A-C5A	8.34	1.54	1.41
4	J	2101	FMN	O2-C2	8.33	1.40	1.24
4	K	2101	FMN	C2-N1	8.26	1.55	1.36
4	H	2101	FMN	O2-C2	8.18	1.40	1.24
4	I	2101	FMN	C9A-C5A	8.03	1.54	1.41
4	J	2101	FMN	C8-C7	7.87	1.59	1.40
4	K	2101	FMN	C10-N1	7.86	1.49	1.33
4	J	2101	FMN	C2-N1	7.69	1.54	1.36
4	I	2101	FMN	C2-N1	7.66	1.54	1.36
4	G	2101	FMN	C2-N1	7.64	1.53	1.36
4	J	2101	FMN	C10-N1	7.62	1.48	1.33
4	L	2101	FMN	C2-N1	7.41	1.53	1.36
4	L	2101	FMN	C10-N1	7.40	1.48	1.33
4	H	2101	FMN	C2-N1	7.33	1.53	1.36
4	G	2101	FMN	C10-N1	7.32	1.48	1.33
4	I	2101	FMN	C10-N1	7.23	1.47	1.33
4	H	2101	FMN	C8-C7	7.12	1.58	1.40
4	K	2101	FMN	C8-C7	7.11	1.58	1.40
4	K	2101	FMN	C10-N10	7.10	1.52	1.37
4	H	2101	FMN	C10-N1	7.05	1.47	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	2101	FMN	C8-C7	7.05	1.58	1.40
4	L	2101	FMN	C10-N10	6.97	1.52	1.37
4	I	2101	FMN	C8-C7	6.79	1.57	1.40
4	G	2101	FMN	C8-C7	6.72	1.57	1.40
4	J	2101	FMN	C10-N10	6.72	1.51	1.37
4	I	2101	FMN	C10-N10	6.63	1.51	1.37
4	G	2101	FMN	C10-N10	6.52	1.51	1.37
4	L	2101	FMN	C5A-N5	6.38	1.51	1.39
3	D	1901	NAP	C2N-N1N	6.34	1.41	1.35
4	H	2101	FMN	C10-N10	6.33	1.51	1.37
4	J	2101	FMN	C4-N3	6.20	1.50	1.38
4	J	2101	FMN	C2-N3	6.11	1.52	1.39
4	G	2101	FMN	C5A-N5	6.06	1.50	1.39
4	L	2101	FMN	C2-N3	5.99	1.52	1.39
4	K	2101	FMN	C4-N3	5.98	1.50	1.38
4	I	2101	FMN	C5A-N5	5.96	1.50	1.39
4	J	2101	FMN	C5A-N5	5.95	1.50	1.39
4	K	2101	FMN	C2-N3	5.90	1.51	1.39
4	H	2101	FMN	C5A-N5	5.88	1.50	1.39
4	K	2101	FMN	C5A-N5	5.87	1.50	1.39
4	I	2101	FMN	C2-N3	5.82	1.51	1.39
4	H	2101	FMN	C2-N3	5.80	1.51	1.39
4	G	2101	FMN	C2-N3	5.70	1.51	1.39
4	I	2101	FMN	C4-N3	5.58	1.49	1.38
4	H	2101	FMN	C4-N3	5.56	1.49	1.38
4	G	2101	FMN	C4-N3	5.52	1.49	1.38
4	L	2101	FMN	C4-N3	5.51	1.49	1.38
3	C	1901	NAP	C2N-N1N	5.29	1.40	1.35
3	F	1901	NAP	C2N-N1N	5.22	1.40	1.35
3	A	1901	NAP	C2N-N1N	5.11	1.40	1.35
4	I	2101	FMN	C9A-N10	5.02	1.49	1.41
4	K	2101	FMN	C9A-N10	4.98	1.49	1.41
3	J	2102	NAP	C2N-N1N	4.93	1.40	1.35
3	B	1901	NAP	C2N-N1N	4.91	1.40	1.35
4	H	2101	FMN	C9A-N10	4.82	1.49	1.41
3	G	2102	NAP	C2N-N1N	4.82	1.40	1.35
3	K	2102	NAP	C2N-N1N	4.81	1.40	1.35
4	L	2101	FMN	C9A-N10	4.80	1.49	1.41
3	E	1901	NAP	C2N-N1N	4.74	1.40	1.35
3	H	2102	NAP	C2N-N1N	4.72	1.40	1.35
4	G	2101	FMN	C9A-N10	4.63	1.49	1.41
3	L	2102	NAP	C2N-N1N	4.45	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	2101	FMN	C9A-N10	4.28	1.48	1.41
3	I	2102	NAP	C2N-N1N	4.18	1.39	1.35
4	J	2101	FMN	C4A-C10	3.59	1.54	1.44
4	J	2101	FMN	C5'-C4'	3.51	1.56	1.51
4	K	2101	FMN	C4A-C10	3.27	1.53	1.44
4	I	2101	FMN	C4A-C10	3.25	1.53	1.44
4	L	2101	FMN	C4A-C10	3.24	1.53	1.44
4	J	2101	FMN	P-O3P	3.23	1.66	1.54
4	K	2101	FMN	P-O3P	3.23	1.66	1.54
4	G	2101	FMN	P-O2P	3.21	1.66	1.54
4	H	2101	FMN	C5'-C4'	3.19	1.56	1.51
3	J	2102	NAP	C6N-N1N	3.19	1.42	1.35
4	H	2101	FMN	C4A-C10	3.17	1.53	1.44
4	G	2101	FMN	C4A-C10	3.17	1.53	1.44
4	K	2101	FMN	P-O2P	3.11	1.66	1.54
4	H	2101	FMN	P-O2P	3.03	1.66	1.54
3	F	1901	NAP	C2A-N1A	2.99	1.39	1.33
4	L	2101	FMN	C1'-C2'	2.96	1.56	1.52
4	L	2101	FMN	P-O2P	2.94	1.65	1.54
3	E	1901	NAP	C2A-N3A	2.91	1.39	1.33
3	D	1901	NAP	C2A-N3A	2.90	1.39	1.33
4	H	2101	FMN	P-O3P	2.90	1.65	1.54
3	C	1901	NAP	C2A-N3A	2.90	1.39	1.33
4	J	2101	FMN	P-O2P	2.89	1.65	1.54
3	D	1901	NAP	C2A-N1A	2.87	1.39	1.33
4	K	2101	FMN	C5'-C4'	2.87	1.55	1.51
4	L	2101	FMN	P-O3P	2.86	1.65	1.54
4	I	2101	FMN	P-O2P	2.86	1.65	1.54
4	K	2101	FMN	C1'-C2'	2.82	1.56	1.52
3	H	2102	NAP	C6N-N1N	2.80	1.41	1.35
3	L	2102	NAP	C2A-N3A	2.79	1.38	1.33
4	G	2101	FMN	P-O3P	2.77	1.65	1.54
4	I	2101	FMN	P-O3P	2.77	1.65	1.54
3	A	1901	NAP	C2A-N3A	2.76	1.38	1.33
3	K	2102	NAP	C6N-N1N	2.75	1.41	1.35
4	L	2101	FMN	C5'-C4'	2.74	1.55	1.51
3	B	1901	NAP	C2A-N1A	2.64	1.38	1.33
4	J	2101	FMN	C8M-C8	2.63	1.55	1.51
3	C	1901	NAP	C2A-N1A	2.63	1.38	1.33
3	E	1901	NAP	C2A-N1A	2.63	1.38	1.33
3	L	2102	NAP	C2A-N1A	2.61	1.38	1.33
3	G	2102	NAP	C2A-N3A	2.61	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	G	2101	FMN	C5'-C4'	2.58	1.55	1.51
3	G	2102	NAP	C6N-N1N	2.58	1.41	1.35
3	A	1901	NAP	C2A-N1A	2.55	1.38	1.33
3	G	2102	NAP	C2A-N1A	2.55	1.38	1.33
3	J	2102	NAP	C2A-N3A	2.53	1.38	1.33
3	H	2102	NAP	C2A-N1A	2.52	1.38	1.33
4	G	2101	FMN	C1'-C2'	2.51	1.56	1.52
3	H	2102	NAP	C2A-N3A	2.51	1.38	1.33
3	L	2102	NAP	C6N-N1N	2.49	1.41	1.35
3	C	1901	NAP	PN-O3	2.48	1.62	1.59
3	K	2102	NAP	C2A-N3A	2.47	1.38	1.33
4	K	2101	FMN	C4A-C4	2.45	1.53	1.44
3	J	2102	NAP	C2A-N1A	2.44	1.38	1.33
3	B	1901	NAP	C2A-N3A	2.44	1.38	1.33
3	K	2102	NAP	C2A-N1A	2.42	1.38	1.33
3	I	2102	NAP	C2A-N3A	2.42	1.38	1.33
4	K	2101	FMN	P-O5'	2.39	1.67	1.60
3	I	2102	NAP	C2A-N1A	2.34	1.38	1.33
4	H	2101	FMN	C1'-C2'	2.31	1.55	1.52
3	F	1901	NAP	C2A-N3A	2.30	1.38	1.33
3	K	2102	NAP	C8A-N7A	2.27	1.36	1.31
3	C	1901	NAP	PA-O3	2.26	1.61	1.59
3	G	2102	NAP	PA-O3	2.26	1.61	1.59
3	G	2102	NAP	C8A-N7A	2.23	1.36	1.31
3	C	1901	NAP	C6N-N1N	2.23	1.40	1.35
3	I	2102	NAP	C8A-N7A	2.21	1.35	1.31
3	D	1901	NAP	C6N-N1N	2.18	1.40	1.35
3	L	2102	NAP	C8A-N7A	2.18	1.35	1.31
4	J	2101	FMN	C1'-C2'	2.18	1.55	1.52
3	A	1901	NAP	C8A-N7A	2.16	1.35	1.31
4	G	2101	FMN	C4'-C3'	2.16	1.57	1.53
3	D	1901	NAP	C8A-N7A	2.15	1.35	1.31
3	F	1901	NAP	C8A-N7A	2.14	1.35	1.31
4	G	2101	FMN	C8M-C8	2.13	1.55	1.51
3	H	2102	NAP	C8A-N7A	2.13	1.35	1.31
3	C	1901	NAP	C8A-N7A	2.12	1.35	1.31
4	I	2101	FMN	C5'-C4'	2.11	1.54	1.51
4	I	2101	FMN	C8M-C8	2.10	1.54	1.51
3	E	1901	NAP	C8A-N7A	2.10	1.35	1.31
4	H	2101	FMN	C8M-C8	2.09	1.54	1.51
3	K	2102	NAP	PA-O3	2.09	1.61	1.59
4	H	2101	FMN	C7M-C7	2.07	1.54	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	I	2101	FMN	C4A-C4	2.06	1.52	1.44
3	H	2102	NAP	PN-O3	2.06	1.61	1.59
3	J	2102	NAP	C8A-N7A	2.06	1.35	1.31
3	I	2102	NAP	C6N-N1N	2.06	1.40	1.35
4	J	2101	FMN	C7M-C7	2.05	1.54	1.51
3	B	1901	NAP	C8A-N7A	2.05	1.35	1.31
3	K	2102	NAP	PN-O3	2.05	1.61	1.59
4	I	2101	FMN	C1'-C2'	2.02	1.55	1.52
4	J	2101	FMN	C4A-C4	2.02	1.52	1.44
3	F	1901	NAP	C6N-N1N	2.02	1.39	1.35
3	D	1901	NAP	PA-O3	2.01	1.61	1.59
4	K	2101	FMN	C8M-C8	2.00	1.54	1.51

All (178) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	2102	NAP	N3A-C2A-N1A	-6.06	119.41	128.58
3	D	1901	NAP	N3A-C2A-N1A	-6.03	119.45	128.58
3	G	2102	NAP	N3A-C2A-N1A	-5.81	119.78	128.58
3	J	2102	NAP	N3A-C2A-N1A	-5.80	119.80	128.58
3	L	2102	NAP	N3A-C2A-N1A	-5.75	119.88	128.58
3	H	2102	NAP	N3A-C2A-N1A	-5.71	119.93	128.58
3	E	1901	NAP	N3A-C2A-N1A	-5.71	119.94	128.58
3	F	1901	NAP	N3A-C2A-N1A	-5.59	120.13	128.58
3	K	2102	NAP	N3A-C2A-N1A	-5.49	120.28	128.58
3	C	1901	NAP	N3A-C2A-N1A	-5.48	120.29	128.58
3	A	1901	NAP	N3A-C2A-N1A	-5.30	120.56	128.58
3	B	1901	NAP	N3A-C2A-N1A	-4.98	121.05	128.58
3	K	2102	NAP	C5A-C4A-N3A	-4.82	120.08	126.72
3	C	1901	NAP	C5A-C4A-N3A	-4.62	120.35	126.72
3	L	2102	NAP	C5A-C4A-N3A	-4.57	120.42	126.72
3	J	2102	NAP	C5A-C4A-N3A	-4.54	120.46	126.72
3	E	1901	NAP	C5A-C4A-N3A	-4.54	120.47	126.72
3	G	2102	NAP	C5A-C4A-N3A	-4.50	120.53	126.72
3	I	2102	NAP	C5A-C4A-N3A	-4.49	120.54	126.72
3	A	1901	NAP	C5A-C4A-N3A	-4.47	120.57	126.72
3	D	1901	NAP	C5A-C4A-N3A	-4.38	120.69	126.72
3	H	2102	NAP	C5A-C4A-N3A	-4.37	120.69	126.72
3	B	1901	NAP	C5A-C4A-N3A	-4.32	120.77	126.72
3	C	1901	NAP	N9A-C8A-N7A	-4.26	107.89	113.94
3	E	1901	NAP	N9A-C8A-N7A	-4.24	107.92	113.94
3	G	2102	NAP	N9A-C8A-N7A	-4.14	108.06	113.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	2102	NAP	N9A-C8A-N7A	-4.13	108.08	113.94
3	I	2102	NAP	N9A-C8A-N7A	-4.07	108.17	113.94
3	L	2102	NAP	N9A-C8A-N7A	-4.04	108.20	113.94
3	B	1901	NAP	N9A-C8A-N7A	-3.99	108.27	113.94
3	A	1901	NAP	N9A-C8A-N7A	-3.97	108.30	113.94
3	D	1901	NAP	N9A-C8A-N7A	-3.90	108.41	113.94
3	J	2102	NAP	N9A-C8A-N7A	-3.83	108.50	113.94
3	F	1901	NAP	N9A-C8A-N7A	-3.81	108.53	113.94
3	F	1901	NAP	C5A-C4A-N3A	-3.76	121.54	126.72
3	H	2102	NAP	N9A-C8A-N7A	-3.73	108.64	113.94
3	I	2102	NAP	C2A-N3A-C4A	3.71	120.90	111.83
3	K	2102	NAP	C5A-N7A-C8A	3.71	109.28	103.45
3	G	2102	NAP	C5A-N7A-C8A	3.69	109.25	103.45
3	C	1901	NAP	C5A-N7A-C8A	3.67	109.21	103.45
3	L	2102	NAP	C2A-N3A-C4A	3.64	120.73	111.83
3	K	2102	NAP	C2A-N3A-C4A	3.63	120.70	111.83
3	J	2102	NAP	C2A-N3A-C4A	3.63	120.69	111.83
3	E	1901	NAP	C2A-N3A-C4A	3.62	120.67	111.83
3	D	1901	NAP	C2A-N3A-C4A	3.61	120.66	111.83
3	E	1901	NAP	C5A-N7A-C8A	3.59	109.10	103.45
3	G	2102	NAP	C2A-N3A-C4A	3.56	120.53	111.83
3	D	1901	NAP	C2B-C1B-N9A	-3.56	107.89	113.75
3	H	2102	NAP	C2A-N3A-C4A	3.55	120.50	111.83
3	B	1901	NAP	C5A-N7A-C8A	3.53	109.00	103.45
3	L	2102	NAP	C5A-N7A-C8A	3.51	108.97	103.45
3	E	1901	NAP	C2B-C1B-N9A	-3.51	107.98	113.75
3	A	1901	NAP	C5A-N7A-C8A	3.47	108.91	103.45
3	C	1901	NAP	C2A-N3A-C4A	3.47	120.30	111.83
3	J	2102	NAP	C5A-N7A-C8A	3.43	108.84	103.45
3	F	1901	NAP	C2B-C1B-N9A	-3.41	108.13	113.75
3	I	2102	NAP	C5A-N7A-C8A	3.39	108.78	103.45
3	D	1901	NAP	C5A-N7A-C8A	3.39	108.78	103.45
4	J	2101	FMN	C5A-C9A-N10	3.38	121.02	117.97
3	B	1901	NAP	C2B-C1B-N9A	-3.38	108.19	113.75
3	A	1901	NAP	C2A-N3A-C4A	3.38	120.08	111.83
4	K	2101	FMN	C4-N3-C2	-3.26	119.85	125.64
3	H	2102	NAP	C5A-N7A-C8A	3.17	108.44	103.45
3	C	1901	NAP	C4D-O4D-C1D	-3.16	107.03	109.92
3	F	1901	NAP	C5A-N7A-C8A	3.16	108.42	103.45
3	B	1901	NAP	C2A-N3A-C4A	3.14	119.50	111.83
3	F	1901	NAP	C2A-N3A-C4A	3.13	119.47	111.83
3	C	1901	NAP	N3A-C4A-N9A	3.12	132.47	127.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	1901	NAP	N3A-C4A-N9A	3.07	132.39	127.17
4	J	2101	FMN	C9-C9A-N10	-3.07	117.73	121.85
4	I	2101	FMN	C5A-C9A-N10	3.03	120.71	117.97
4	H	2101	FMN	C5A-C9A-N10	3.01	120.69	117.97
3	L	2102	NAP	N3A-C4A-N9A	2.99	132.25	127.17
3	C	1901	NAP	C2B-C1B-N9A	-2.98	108.84	113.75
4	K	2101	FMN	C4A-C4-N3	2.97	120.82	113.25
3	A	1901	NAP	N3A-C4A-N9A	2.95	132.19	127.17
3	I	2102	NAP	N3A-C4A-N9A	2.95	132.19	127.17
4	J	2101	FMN	O4-C4-C4A	-2.94	118.78	126.53
4	I	2101	FMN	C9A-C5A-N5	-2.93	119.35	122.45
3	K	2102	NAP	C4A-C5A-N7A	-2.92	107.25	110.58
3	K	2102	NAP	N3A-C4A-N9A	2.92	132.13	127.17
4	G	2101	FMN	C9A-C5A-N5	-2.91	119.37	122.45
3	D	1901	NAP	N3A-C4A-N9A	2.91	132.11	127.17
4	H	2101	FMN	C9A-C5A-N5	-2.90	119.38	122.45
4	I	2101	FMN	C4-N3-C2	-2.89	120.51	125.64
4	K	2101	FMN	C9A-C5A-N5	-2.87	119.40	122.45
3	B	1901	NAP	C4D-O4D-C1D	-2.87	107.29	109.92
3	H	2102	NAP	N3A-C4A-N9A	2.81	131.95	127.17
3	J	2102	NAP	N3A-C4A-N9A	2.81	131.95	127.17
3	F	1901	NAP	C4D-O4D-C1D	-2.79	107.37	109.92
4	L	2101	FMN	C9A-C5A-N5	-2.77	119.51	122.45
4	K	2101	FMN	C5A-C9A-N10	2.76	120.47	117.97
3	B	1901	NAP	C4A-C5A-N7A	-2.76	107.42	110.58
3	G	2102	NAP	N3A-C4A-N9A	2.73	131.81	127.17
4	G	2101	FMN	C5A-C9A-N10	2.73	120.44	117.97
3	B	1901	NAP	N3A-C4A-N9A	2.72	131.80	127.17
4	H	2101	FMN	C4-N3-C2	-2.71	120.82	125.64
4	L	2101	FMN	C4-N3-C2	-2.71	120.82	125.64
4	H	2101	FMN	O4-C4-C4A	-2.71	119.37	126.53
3	G	2102	NAP	C4A-C5A-N7A	-2.70	107.49	110.58
4	L	2101	FMN	O4-C4-C4A	-2.70	119.42	126.53
3	E	1901	NAP	C4A-C5A-N7A	-2.68	107.51	110.58
3	A	1901	NAP	C2B-C1B-N9A	-2.67	109.37	113.75
3	E	1901	NAP	C4D-O4D-C1D	-2.64	107.51	109.92
3	L	2102	NAP	C4A-C5A-N7A	-2.61	107.59	110.58
4	J	2101	FMN	C4'-C3'-C2'	-2.61	109.22	113.57
3	H	2102	NAP	P2B-O2B-C2B	2.61	130.40	123.43
3	J	2102	NAP	O4B-C1B-N9A	2.55	112.99	108.09
3	D	1901	NAP	C4D-O4D-C1D	-2.55	107.59	109.92
3	C	1901	NAP	C4A-C5A-N7A	-2.55	107.67	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	K	2101	FMN	O4-C4-C4A	-2.50	119.94	126.53
3	F	1901	NAP	N3A-C4A-N9A	2.49	131.40	127.17
4	I	2101	FMN	C4A-C4-N3	2.48	119.57	113.25
3	E	1901	NAP	C4A-N9A-C8A	2.46	108.33	105.74
4	L	2101	FMN	C5A-C9A-N10	2.46	120.19	117.97
4	G	2101	FMN	C4-N3-C2	-2.44	121.31	125.64
4	J	2101	FMN	C4-N3-C2	-2.44	121.32	125.64
3	J	2102	NAP	C4A-C5A-N7A	-2.41	107.82	110.58
3	A	1901	NAP	C4A-C5A-N7A	-2.41	107.83	110.58
4	I	2101	FMN	O4-C4-C4A	-2.40	120.19	126.53
4	H	2101	FMN	C4A-C4-N3	2.36	119.26	113.25
4	L	2101	FMN	C4A-C4-N3	2.35	119.23	113.25
3	E	1901	NAP	O2N-PN-O1N	2.34	123.33	112.44
4	G	2101	FMN	C4A-C4-N3	2.34	119.20	113.25
3	D	1901	NAP	C4A-C5A-N7A	-2.32	107.93	110.58
4	G	2101	FMN	O4-C4-C4A	-2.31	120.42	126.53
3	K	2102	NAP	P2B-O2B-C2B	2.30	129.58	123.43
4	L	2101	FMN	C9-C9A-N10	-2.30	118.76	121.85
3	G	2102	NAP	P2B-O2B-C2B	2.30	129.56	123.43
4	K	2101	FMN	C4A-C10-N1	-2.29	118.97	124.59
4	K	2101	FMN	C9-C9A-N10	-2.29	118.78	121.85
4	K	2101	FMN	C10-C4A-N5	-2.29	120.14	124.81
3	H	2102	NAP	C4A-C5A-N7A	-2.27	107.99	110.58
4	J	2101	FMN	C9A-C5A-N5	-2.27	120.05	122.45
3	D	1901	NAP	O4B-C1B-N9A	2.26	112.43	108.09
4	G	2101	FMN	O4'-C4'-C5'	-2.25	105.03	109.99
3	K	2102	NAP	O4B-C1B-N9A	2.24	112.39	108.09
3	I	2102	NAP	C4A-C5A-N7A	-2.21	108.06	110.58
4	I	2101	FMN	O4'-C4'-C5'	-2.20	105.13	109.99
3	G	2102	NAP	O4B-C1B-N9A	2.20	112.31	108.09
3	C	1901	NAP	C4A-N9A-C8A	2.20	108.05	105.74
4	H	2101	FMN	C9-C9A-N10	-2.20	118.90	121.85
3	G	2102	NAP	C6N-N1N-C2N	-2.19	120.02	121.88
4	J	2101	FMN	C4A-C4-N3	2.18	118.80	113.25
4	L	2101	FMN	C4-C4A-C10	2.17	120.65	116.93
3	E	1901	NAP	O7N-C7N-C3N	2.16	122.24	119.60
3	F	1901	NAP	O2N-PN-O1N	2.16	122.50	112.44
3	F	1901	NAP	C4A-C5A-N7A	-2.15	108.12	110.58
4	L	2101	FMN	C10-C4A-N5	-2.15	120.42	124.81
3	J	2102	NAP	O3-PN-O1N	-2.14	104.27	110.70
4	I	2101	FMN	C10-C4A-N5	-2.13	120.45	124.81
3	A	1901	NAP	O7N-C7N-C3N	2.12	122.19	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	K	2101	FMN	C4'-C3'-C2'	-2.10	110.07	113.57
3	G	2102	NAP	C2B-C1B-N9A	-2.10	110.30	113.75
4	G	2101	FMN	C10-C4A-N5	-2.09	120.53	124.81
3	B	1901	NAP	O2A-PA-O3	2.09	112.91	107.27
3	J	2102	NAP	P2B-O2B-C2B	2.08	128.99	123.43
3	B	1901	NAP	O2N-PN-O1N	2.08	122.12	112.44
4	L	2101	FMN	C4A-C10-N10	2.08	119.46	116.48
3	C	1901	NAP	O2N-PN-O1N	2.08	122.11	112.44
3	F	1901	NAP	O4B-C1B-N9A	2.07	112.07	108.09
3	I	2102	NAP	P2B-O2B-C2B	2.07	128.96	123.43
4	K	2101	FMN	O5'-P-O1P	2.07	112.02	106.44
3	L	2102	NAP	C4A-N9A-C8A	2.06	107.90	105.74
3	F	1901	NAP	O2A-PA-O3	2.06	112.83	107.27
4	K	2101	FMN	C10-N1-C2	2.05	121.30	116.85
4	G	2101	FMN	C9-C9A-N10	-2.04	119.11	121.85
3	L	2102	NAP	P2B-O2B-C2B	2.04	128.89	123.43
3	F	1901	NAP	C4A-N9A-C8A	2.03	107.87	105.74
3	D	1901	NAP	O2N-PN-O1N	2.03	121.88	112.44
3	B	1901	NAP	C4A-N9A-C8A	2.02	107.86	105.74
4	I	2101	FMN	C4'-C3'-C2'	-2.02	110.20	113.57
4	J	2101	FMN	C4-C4A-C10	2.02	120.40	116.93
3	I	2102	NAP	O4B-C1B-N9A	2.02	111.96	108.09
4	L	2101	FMN	C1'-C2'-C3'	2.02	115.13	109.66
3	J	2102	NAP	C2B-C1B-N9A	-2.02	110.43	113.75
4	G	2101	FMN	C4A-C10-N10	2.01	119.36	116.48
3	F	1901	NAP	C2B-C3B-C4B	2.01	106.31	101.99

There are no chirality outliers.

All (166) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1901	NAP	C5B-O5B-PA-O3
3	A	1901	NAP	PA-O3-PN-O5D
3	A	1901	NAP	C5D-O5D-PN-O3
3	A	1901	NAP	C5D-O5D-PN-O1N
3	A	1901	NAP	C5D-O5D-PN-O2N
3	B	1901	NAP	C5B-O5B-PA-O3
3	B	1901	NAP	PA-O3-PN-O5D
3	B	1901	NAP	C5D-O5D-PN-O3
3	B	1901	NAP	C5D-O5D-PN-O1N
3	B	1901	NAP	C5D-O5D-PN-O2N
3	C	1901	NAP	C5B-O5B-PA-O3

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Mol	Chain	Res	Type	Atoms
3	C	1901	NAP	PA-O3-PN-O5D
3	C	1901	NAP	C5D-O5D-PN-O3
3	C	1901	NAP	C5D-O5D-PN-O1N
3	C	1901	NAP	C5D-O5D-PN-O2N
3	D	1901	NAP	C5B-O5B-PA-O3
3	D	1901	NAP	PA-O3-PN-O5D
3	D	1901	NAP	C5D-O5D-PN-O3
3	D	1901	NAP	C5D-O5D-PN-O1N
3	D	1901	NAP	C5D-O5D-PN-O2N
3	E	1901	NAP	C5B-O5B-PA-O3
3	E	1901	NAP	PA-O3-PN-O5D
3	E	1901	NAP	C5D-O5D-PN-O3
3	E	1901	NAP	C5D-O5D-PN-O1N
3	E	1901	NAP	C5D-O5D-PN-O2N
3	F	1901	NAP	C5B-O5B-PA-O3
3	F	1901	NAP	PA-O3-PN-O5D
3	F	1901	NAP	C5D-O5D-PN-O3
3	F	1901	NAP	C5D-O5D-PN-O1N
3	F	1901	NAP	C5D-O5D-PN-O2N
3	G	2102	NAP	C3B-C4B-C5B-O5B
3	H	2102	NAP	C3B-C4B-C5B-O5B
3	I	2102	NAP	C3B-C4B-C5B-O5B
3	J	2102	NAP	C3B-C4B-C5B-O5B
3	K	2102	NAP	C3B-C4B-C5B-O5B
3	L	2102	NAP	O4B-C4B-C5B-O5B
3	L	2102	NAP	C3B-C4B-C5B-O5B
4	G	2101	FMN	C2'-C3'-C4'-C5'
4	G	2101	FMN	O3'-C3'-C4'-C5'
4	H	2101	FMN	C2'-C3'-C4'-C5'
4	H	2101	FMN	O3'-C3'-C4'-C5'
4	I	2101	FMN	C2'-C3'-C4'-C5'
4	I	2101	FMN	O3'-C3'-C4'-C5'
4	J	2101	FMN	C2'-C3'-C4'-C5'
4	J	2101	FMN	O3'-C3'-C4'-C5'
4	K	2101	FMN	C2'-C3'-C4'-C5'
4	K	2101	FMN	O3'-C3'-C4'-C5'
4	L	2101	FMN	C2'-C3'-C4'-C5'
4	L	2101	FMN	O3'-C3'-C4'-C5'
4	G	2101	FMN	O3'-C3'-C4'-O4'
4	H	2101	FMN	O3'-C3'-C4'-O4'
4	K	2101	FMN	O3'-C3'-C4'-O4'
4	G	2101	FMN	C2'-C3'-C4'-O4'

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Mol	Chain	Res	Type	Atoms
4	H	2101	FMN	C2'-C3'-C4'-O4'
4	I	2101	FMN	C2'-C3'-C4'-O4'
4	J	2101	FMN	C2'-C3'-C4'-O4'
4	K	2101	FMN	C2'-C3'-C4'-O4'
4	L	2101	FMN	C2'-C3'-C4'-O4'
3	G	2102	NAP	C3B-C2B-O2B-P2B
3	H	2102	NAP	C3B-C2B-O2B-P2B
3	I	2102	NAP	C3B-C2B-O2B-P2B
3	J	2102	NAP	C3B-C2B-O2B-P2B
3	K	2102	NAP	C3B-C2B-O2B-P2B
3	L	2102	NAP	C3B-C2B-O2B-P2B
4	I	2101	FMN	O3'-C3'-C4'-O4'
4	J	2101	FMN	O3'-C3'-C4'-O4'
4	L	2101	FMN	O3'-C3'-C4'-O4'
3	G	2102	NAP	O4B-C4B-C5B-O5B
3	H	2102	NAP	O4B-C4B-C5B-O5B
3	I	2102	NAP	O4B-C4B-C5B-O5B
3	J	2102	NAP	O4B-C4B-C5B-O5B
3	K	2102	NAP	O4B-C4B-C5B-O5B
3	A	1901	NAP	C3B-C4B-C5B-O5B
3	B	1901	NAP	O4B-C4B-C5B-O5B
3	B	1901	NAP	C3B-C4B-C5B-O5B
3	E	1901	NAP	C3B-C4B-C5B-O5B
3	F	1901	NAP	C3B-C4B-C5B-O5B
3	A	1901	NAP	O4B-C4B-C5B-O5B
3	C	1901	NAP	O4B-C4B-C5B-O5B
3	C	1901	NAP	C3B-C4B-C5B-O5B
3	D	1901	NAP	O4B-C4B-C5B-O5B
3	D	1901	NAP	C3B-C4B-C5B-O5B
3	E	1901	NAP	O4B-C4B-C5B-O5B
3	F	1901	NAP	O4B-C4B-C5B-O5B
3	G	2102	NAP	C2B-O2B-P2B-O1X
3	H	2102	NAP	C2B-O2B-P2B-O1X
3	I	2102	NAP	C2B-O2B-P2B-O1X
3	J	2102	NAP	C2B-O2B-P2B-O1X
3	K	2102	NAP	C2B-O2B-P2B-O1X
3	L	2102	NAP	C2B-O2B-P2B-O1X
3	G	2102	NAP	PA-O3-PN-O2N
3	H	2102	NAP	PA-O3-PN-O2N
3	I	2102	NAP	PA-O3-PN-O2N
3	J	2102	NAP	PA-O3-PN-O2N
3	K	2102	NAP	PA-O3-PN-O2N

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Mol	Chain	Res	Type	Atoms
3	L	2102	NAP	PA-O3-PN-O2N
3	A	1901	NAP	C5B-O5B-PA-O1A
3	B	1901	NAP	C5B-O5B-PA-O1A
3	C	1901	NAP	C5B-O5B-PA-O1A
3	D	1901	NAP	C5B-O5B-PA-O1A
3	E	1901	NAP	C5B-O5B-PA-O1A
3	F	1901	NAP	C5B-O5B-PA-O1A
3	G	2102	NAP	C5B-O5B-PA-O1A
3	G	2102	NAP	C5B-O5B-PA-O2A
3	G	2102	NAP	C5B-O5B-PA-O3
3	H	2102	NAP	C5B-O5B-PA-O1A
3	H	2102	NAP	C5B-O5B-PA-O2A
3	H	2102	NAP	C5B-O5B-PA-O3
3	I	2102	NAP	C5B-O5B-PA-O1A
3	I	2102	NAP	C5B-O5B-PA-O2A
3	I	2102	NAP	C5B-O5B-PA-O3
3	J	2102	NAP	C5B-O5B-PA-O1A
3	J	2102	NAP	C5B-O5B-PA-O2A
3	J	2102	NAP	C5B-O5B-PA-O3
3	K	2102	NAP	C5B-O5B-PA-O1A
3	K	2102	NAP	C5B-O5B-PA-O2A
3	K	2102	NAP	C5B-O5B-PA-O3
3	L	2102	NAP	C5B-O5B-PA-O1A
3	L	2102	NAP	C5B-O5B-PA-O2A
3	L	2102	NAP	C5B-O5B-PA-O3
4	J	2101	FMN	C4'-C5'-O5'-P
4	K	2101	FMN	C4'-C5'-O5'-P
4	L	2101	FMN	C4'-C5'-O5'-P
4	H	2101	FMN	C4'-C5'-O5'-P
4	I	2101	FMN	C4'-C5'-O5'-P
3	A	1901	NAP	PN-O3-PA-O1A
3	B	1901	NAP	PN-O3-PA-O1A
3	B	1901	NAP	PN-O3-PA-O2A
3	C	1901	NAP	PN-O3-PA-O1A
3	D	1901	NAP	PN-O3-PA-O1A
3	E	1901	NAP	PN-O3-PA-O1A
3	F	1901	NAP	PN-O3-PA-O1A
3	A	1901	NAP	C4D-C5D-O5D-PN
3	C	1901	NAP	C4D-C5D-O5D-PN
3	D	1901	NAP	C4D-C5D-O5D-PN
3	E	1901	NAP	C4D-C5D-O5D-PN
4	G	2101	FMN	C4'-C5'-O5'-P

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Mol	Chain	Res	Type	Atoms
3	G	2102	NAP	C1B-C2B-O2B-P2B
3	J	2102	NAP	C1B-C2B-O2B-P2B
3	G	2102	NAP	O4D-C1D-N1N-C2N
3	G	2102	NAP	O4D-C1D-N1N-C6N
3	H	2102	NAP	O4D-C1D-N1N-C2N
3	J	2102	NAP	O4D-C1D-N1N-C2N
3	K	2102	NAP	O4D-C1D-N1N-C2N
3	B	1901	NAP	C4D-C5D-O5D-PN
3	K	2102	NAP	C1B-C2B-O2B-P2B
3	F	1901	NAP	C4D-C5D-O5D-PN
3	I	2102	NAP	C1B-C2B-O2B-P2B
3	L	2102	NAP	C1B-C2B-O2B-P2B
3	H	2102	NAP	C1B-C2B-O2B-P2B
3	A	1901	NAP	PN-O3-PA-O2A
3	C	1901	NAP	PN-O3-PA-O2A
3	D	1901	NAP	PN-O3-PA-O2A
3	E	1901	NAP	PN-O3-PA-O2A
3	F	1901	NAP	PN-O3-PA-O2A
3	K	2102	NAP	PA-O3-PN-O1N
3	G	2102	NAP	C3D-C4D-C5D-O5D
3	H	2102	NAP	C2B-O2B-P2B-O2X
3	I	2102	NAP	C2B-O2B-P2B-O2X
3	J	2102	NAP	C2B-O2B-P2B-O2X
3	J	2102	NAP	C3D-C4D-C5D-O5D
3	G	2102	NAP	PA-O3-PN-O1N
3	H	2102	NAP	PA-O3-PN-O1N
3	I	2102	NAP	PA-O3-PN-O1N
3	J	2102	NAP	PA-O3-PN-O1N
3	L	2102	NAP	PA-O3-PN-O1N

There are no ring outliers.

18 monomers are involved in 136 short contacts:

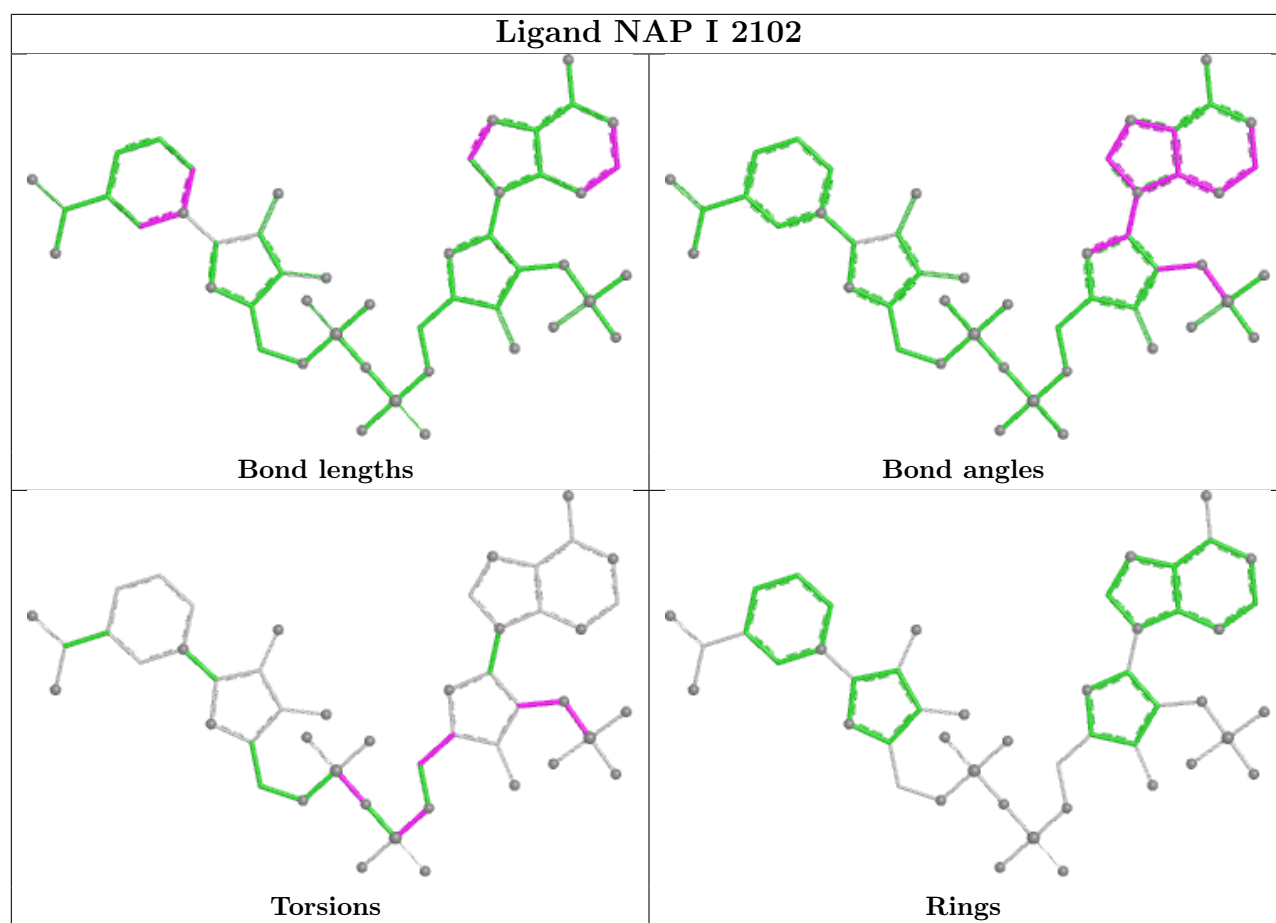
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	I	2102	NAP	4	0
3	H	2102	NAP	5	0
3	E	1901	NAP	4	0
3	B	1901	NAP	5	0
3	J	2102	NAP	4	0
4	G	2101	FMN	14	0
3	A	1901	NAP	5	0
3	D	1901	NAP	6	0

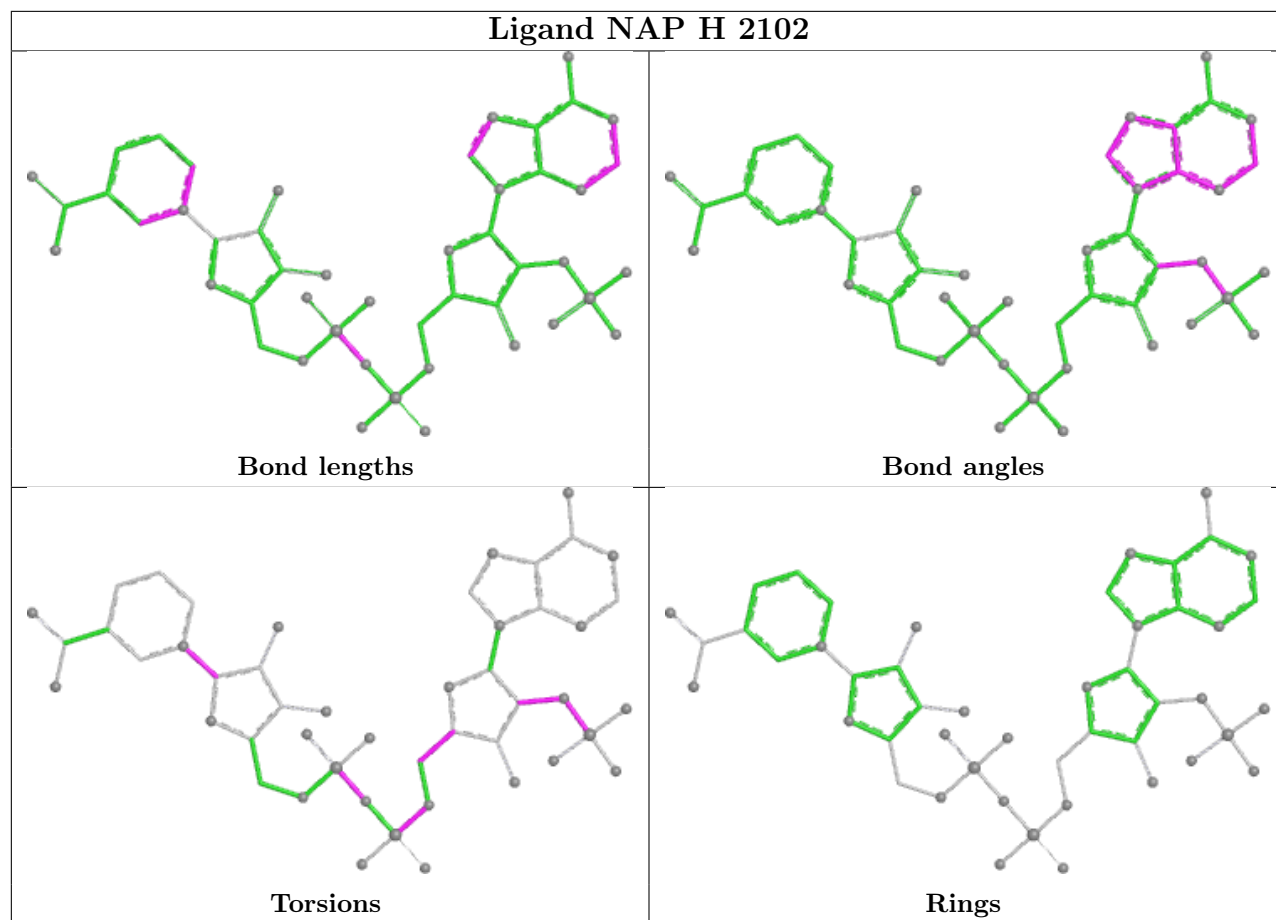
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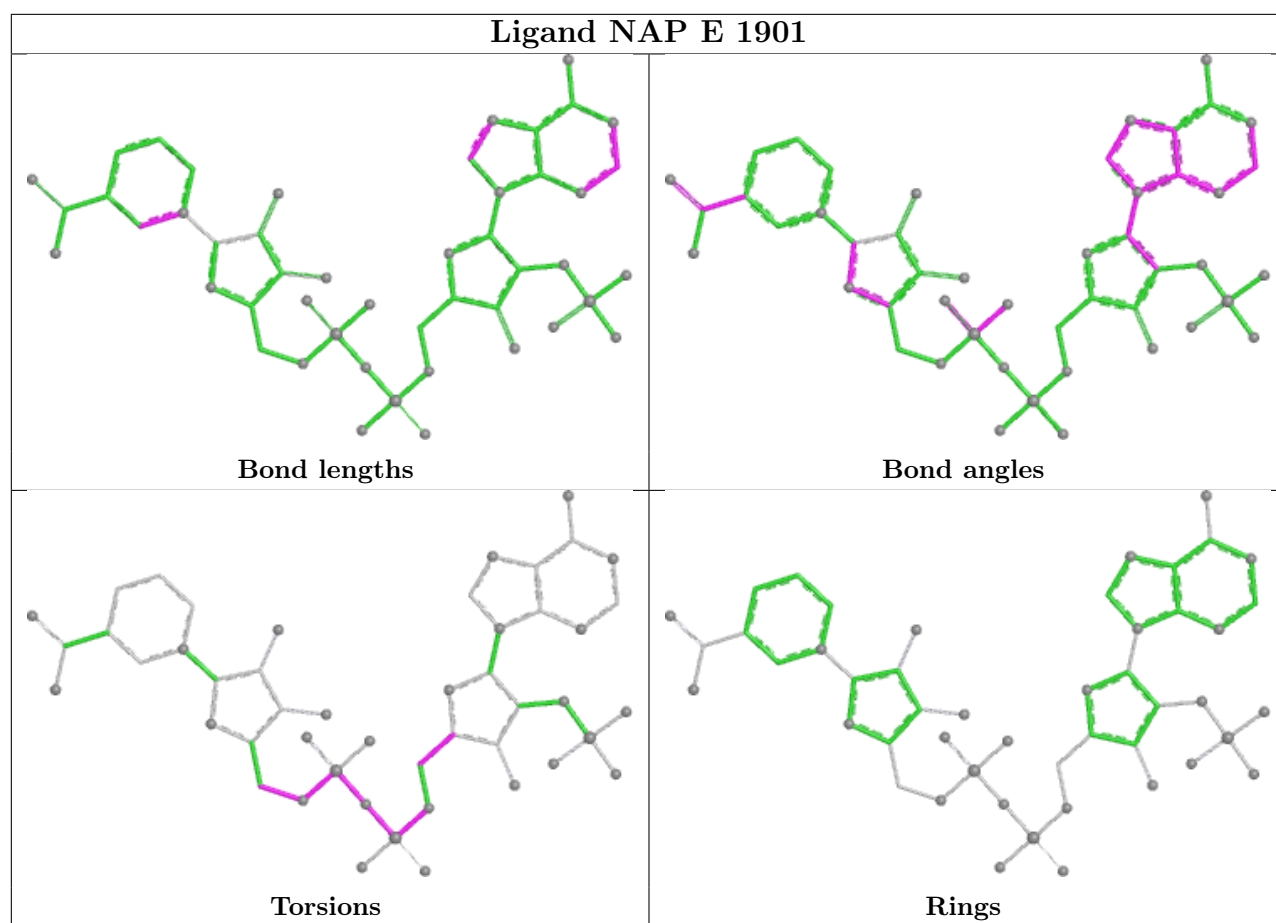
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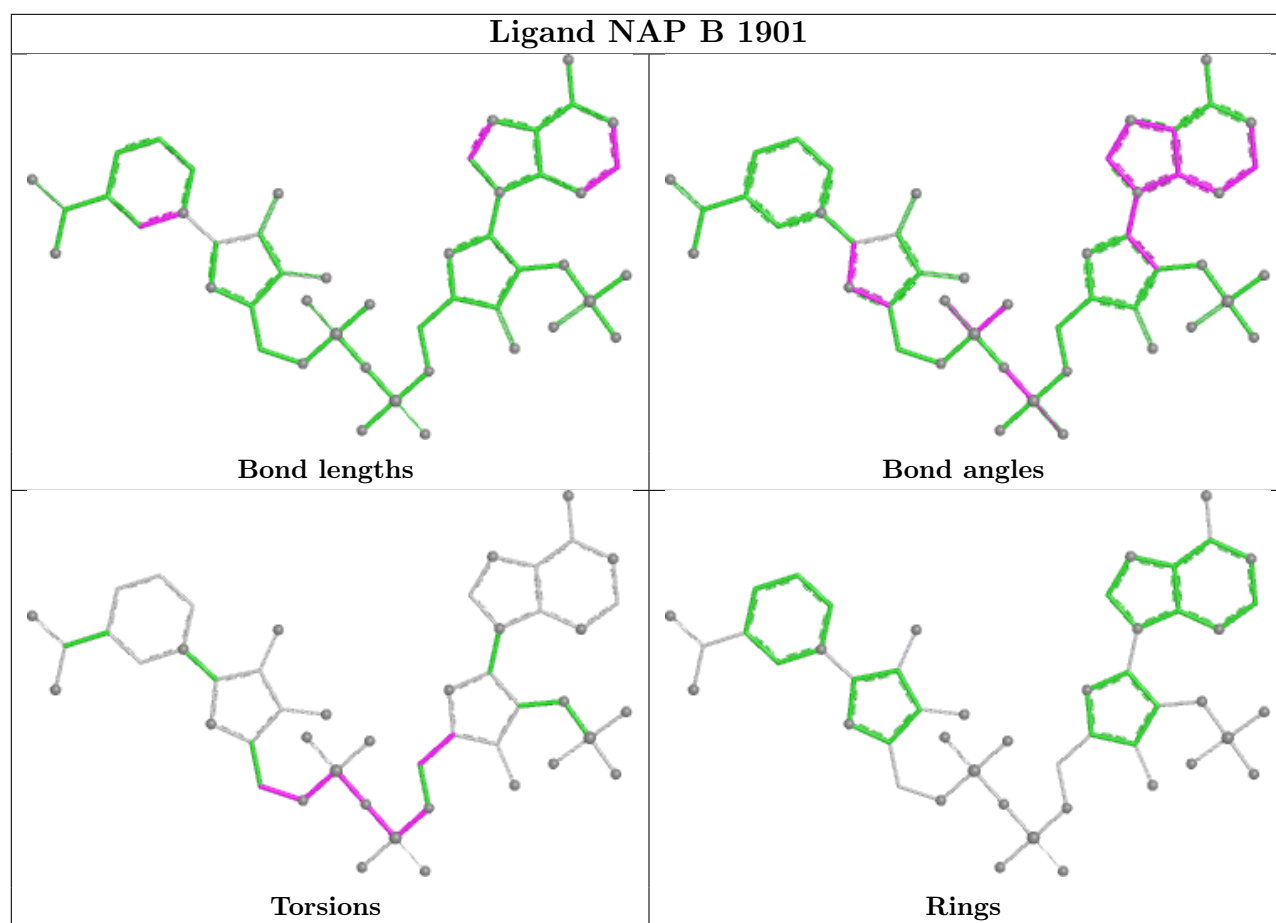
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	I	2101	FMN	14	0
4	K	2101	FMN	13	0
4	L	2101	FMN	14	0
3	K	2102	NAP	4	0
4	H	2101	FMN	13	0
3	C	1901	NAP	4	0
4	J	2101	FMN	15	0
3	G	2102	NAP	4	0
3	L	2102	NAP	4	0
3	F	1901	NAP	4	0

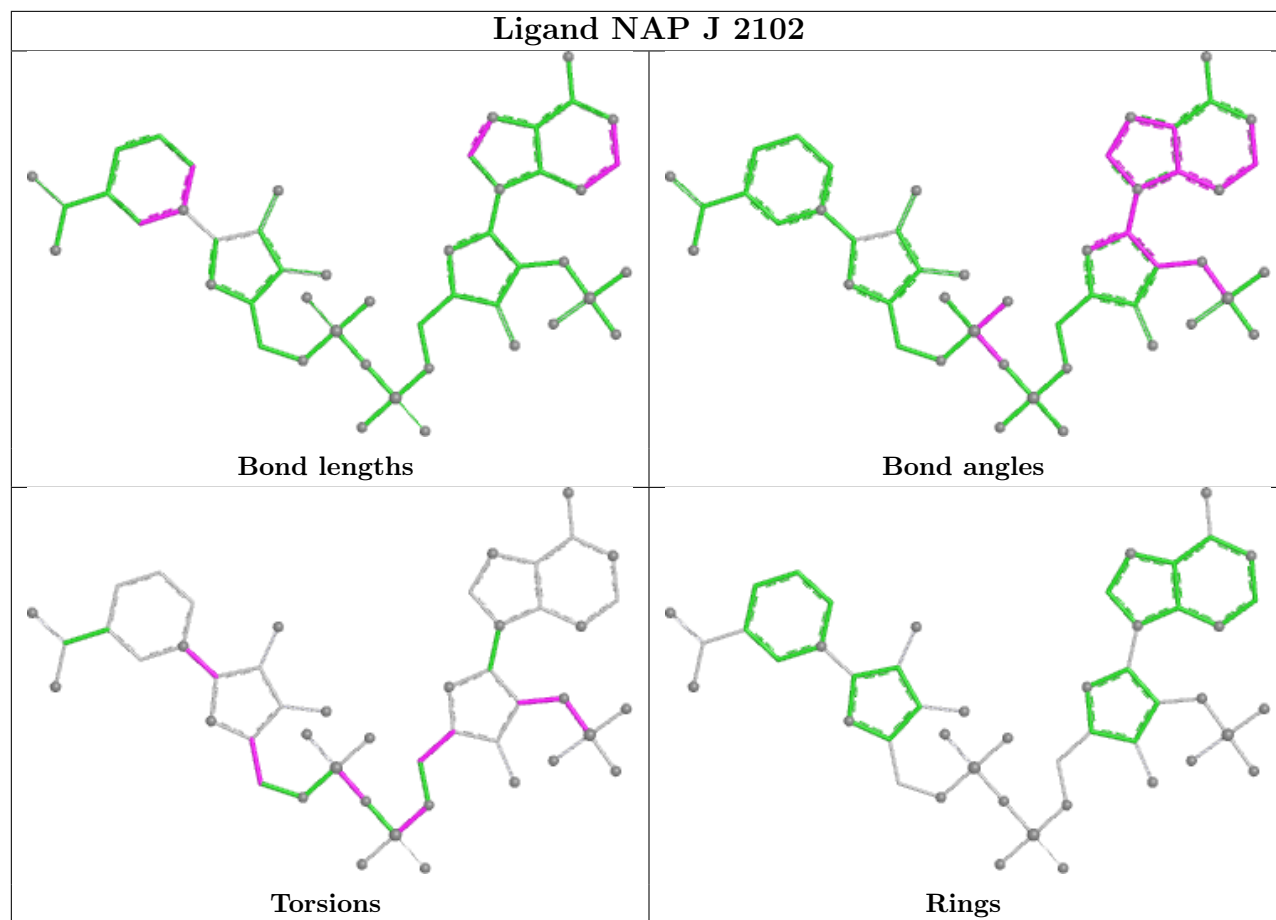
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



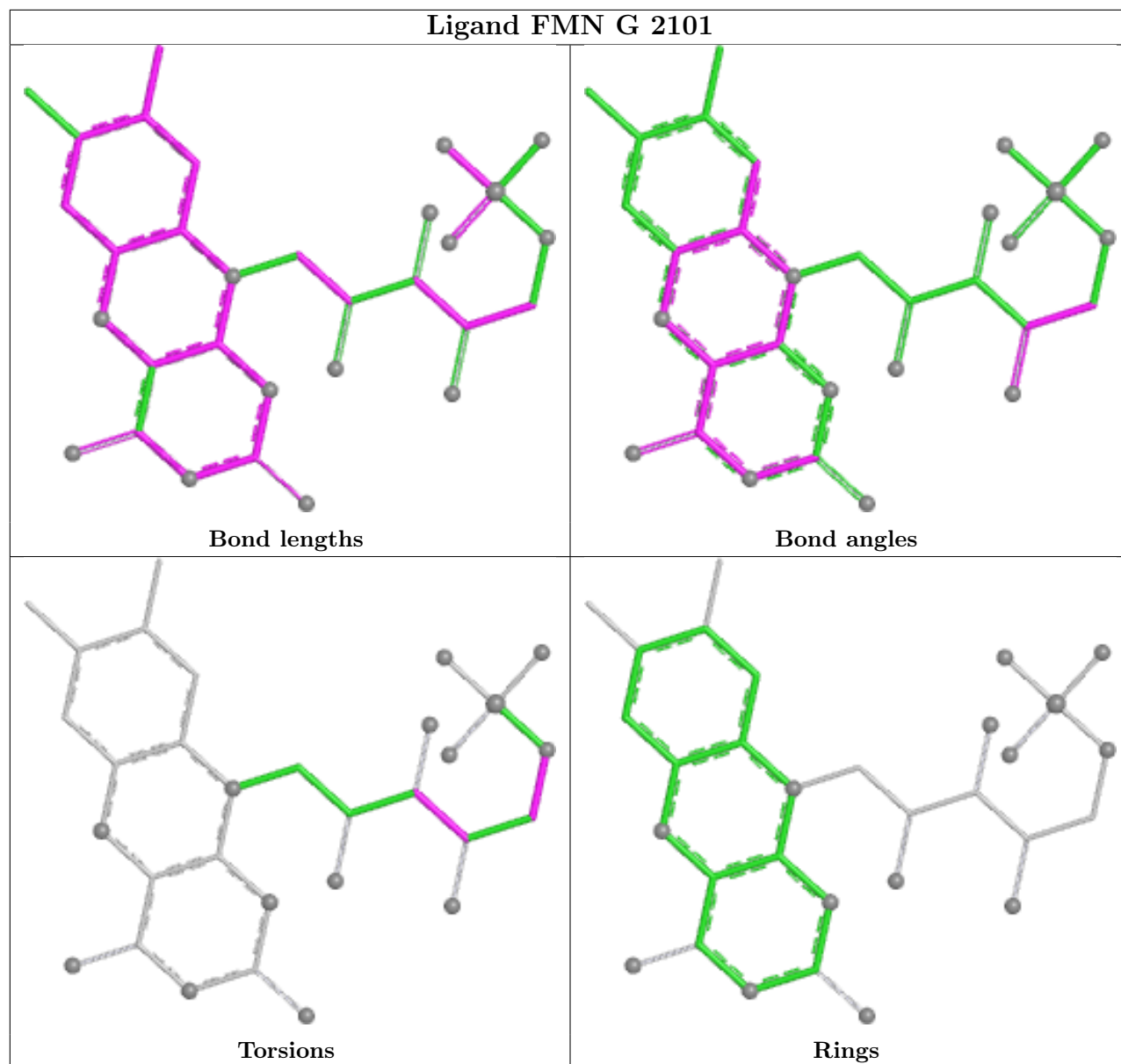


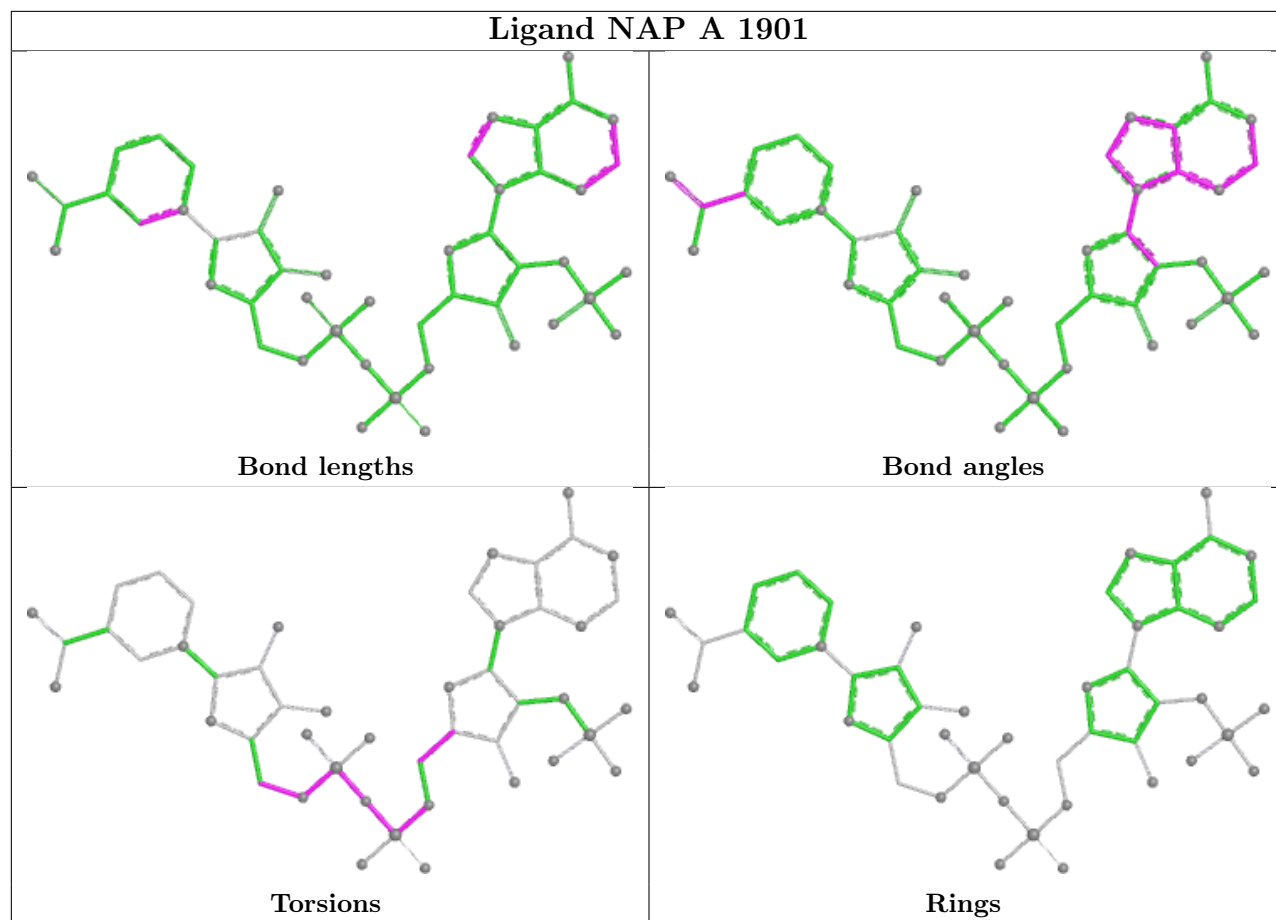


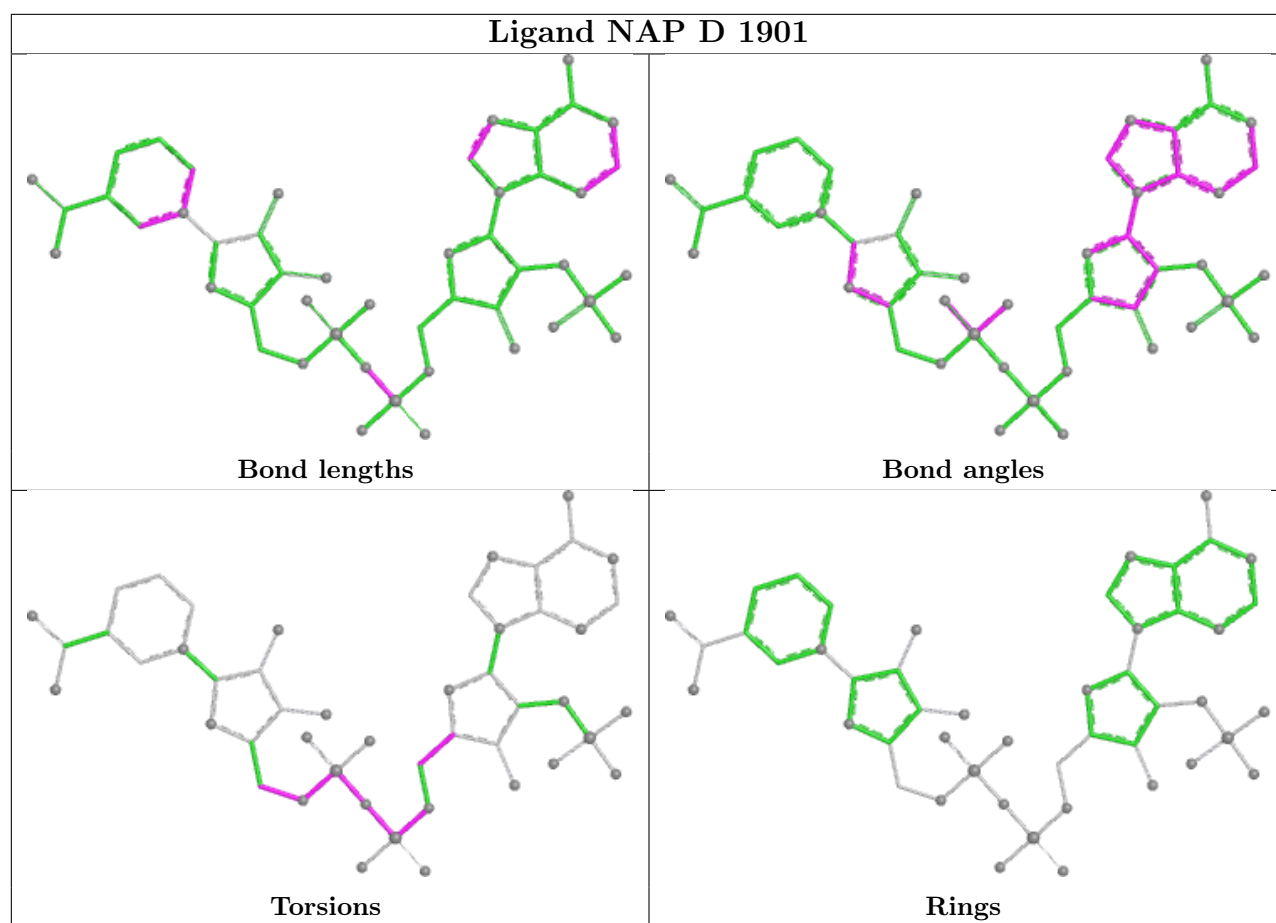


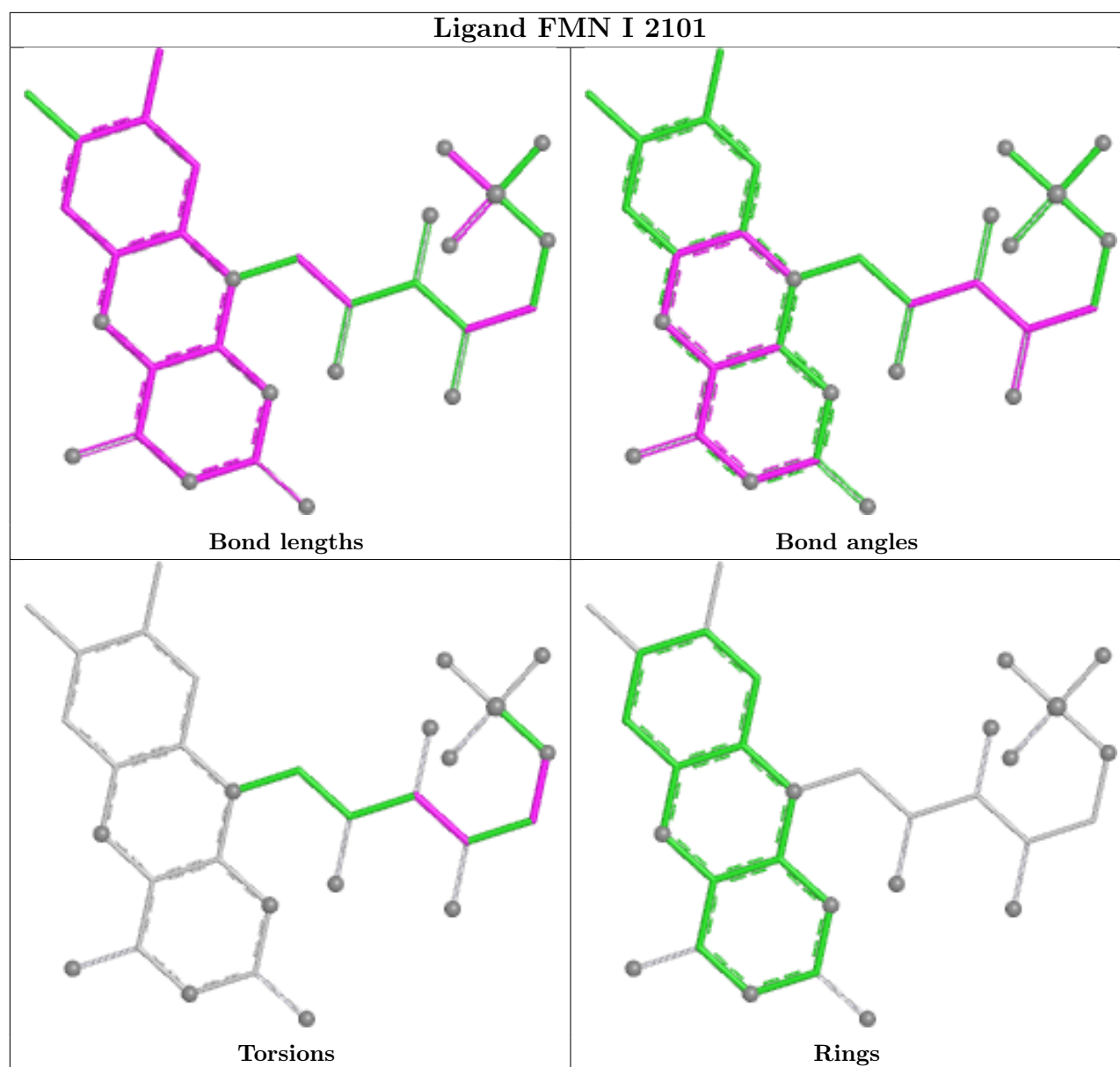


Ligand FMN G 2101

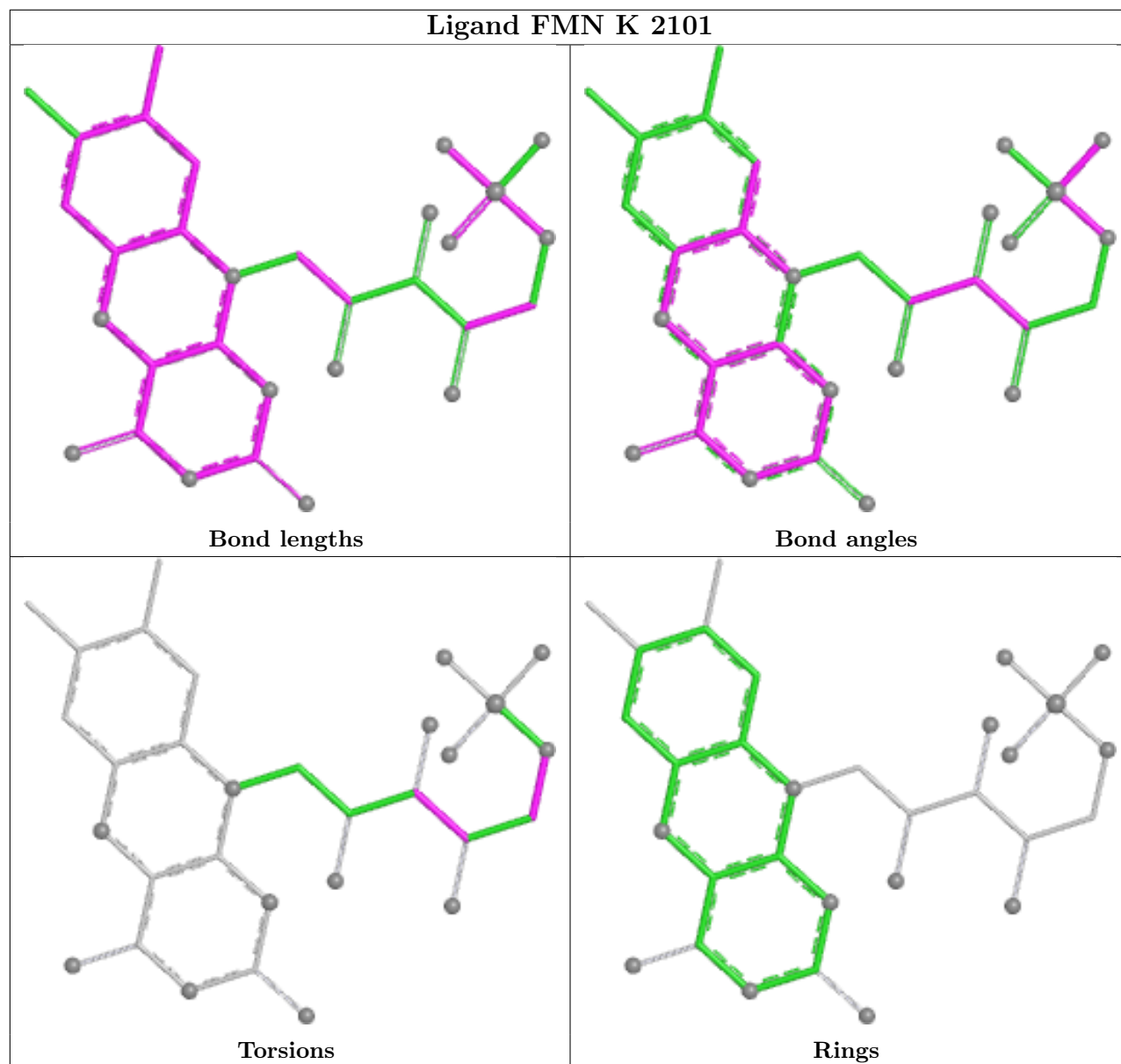


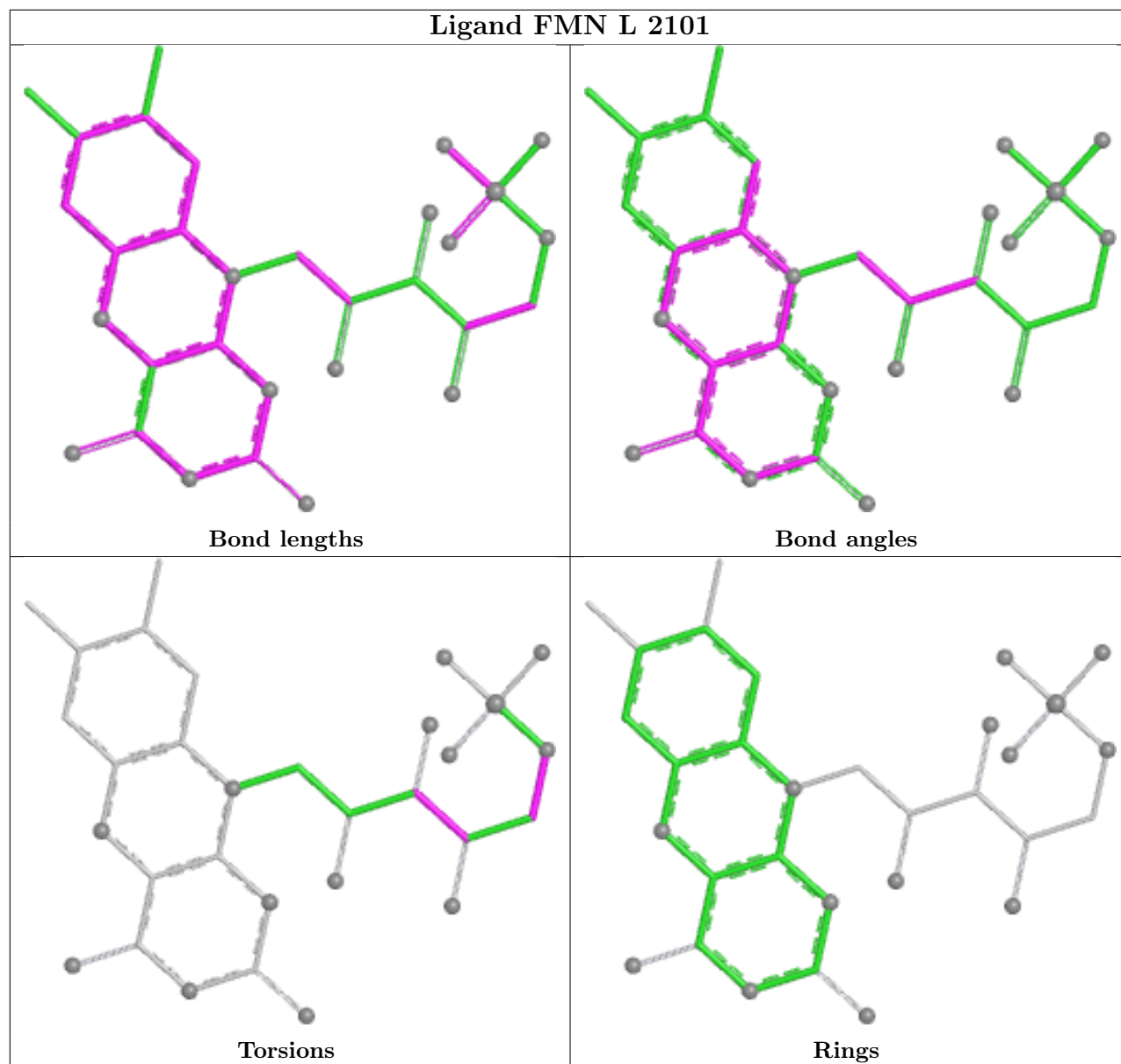


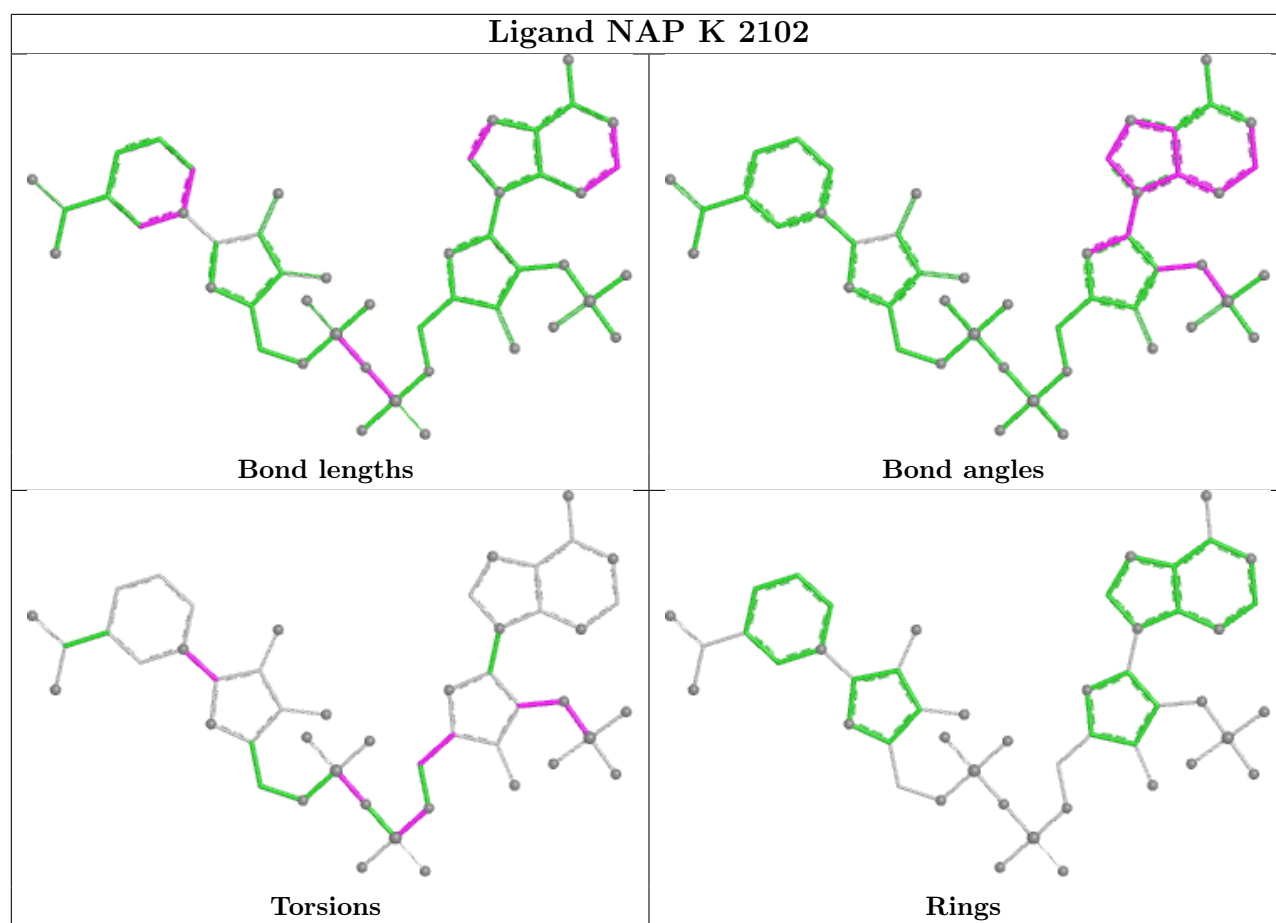




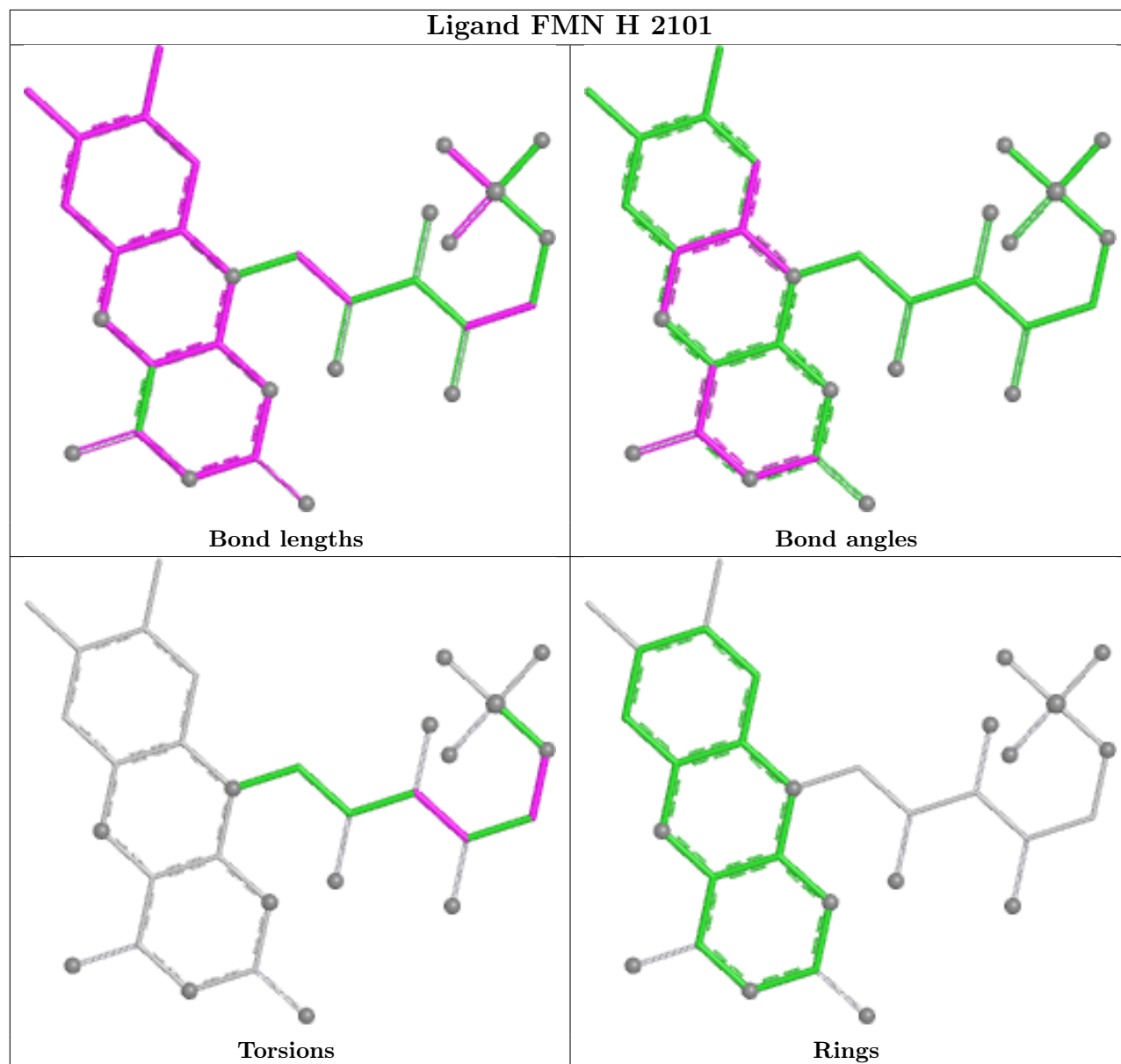
Ligand FMN K 2101

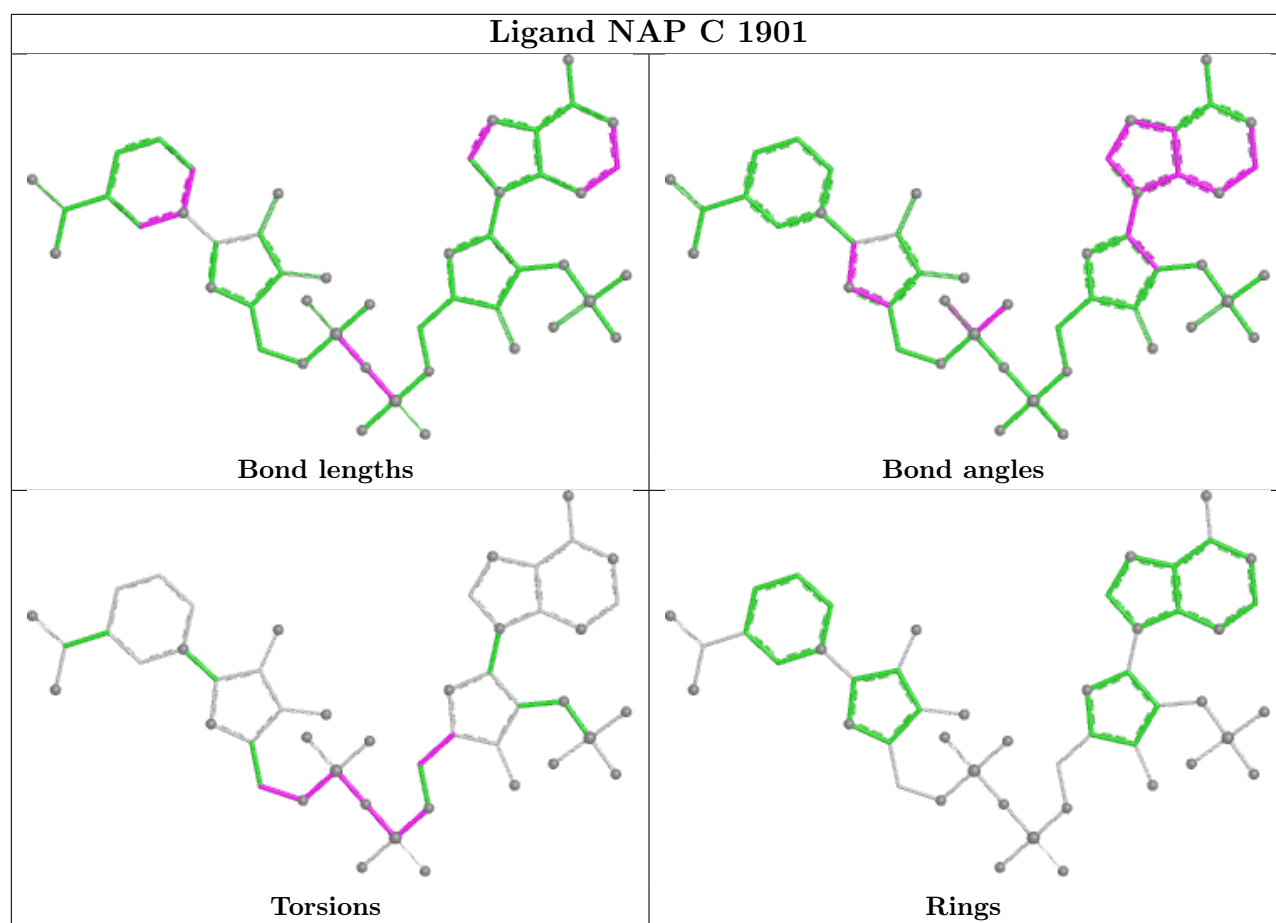


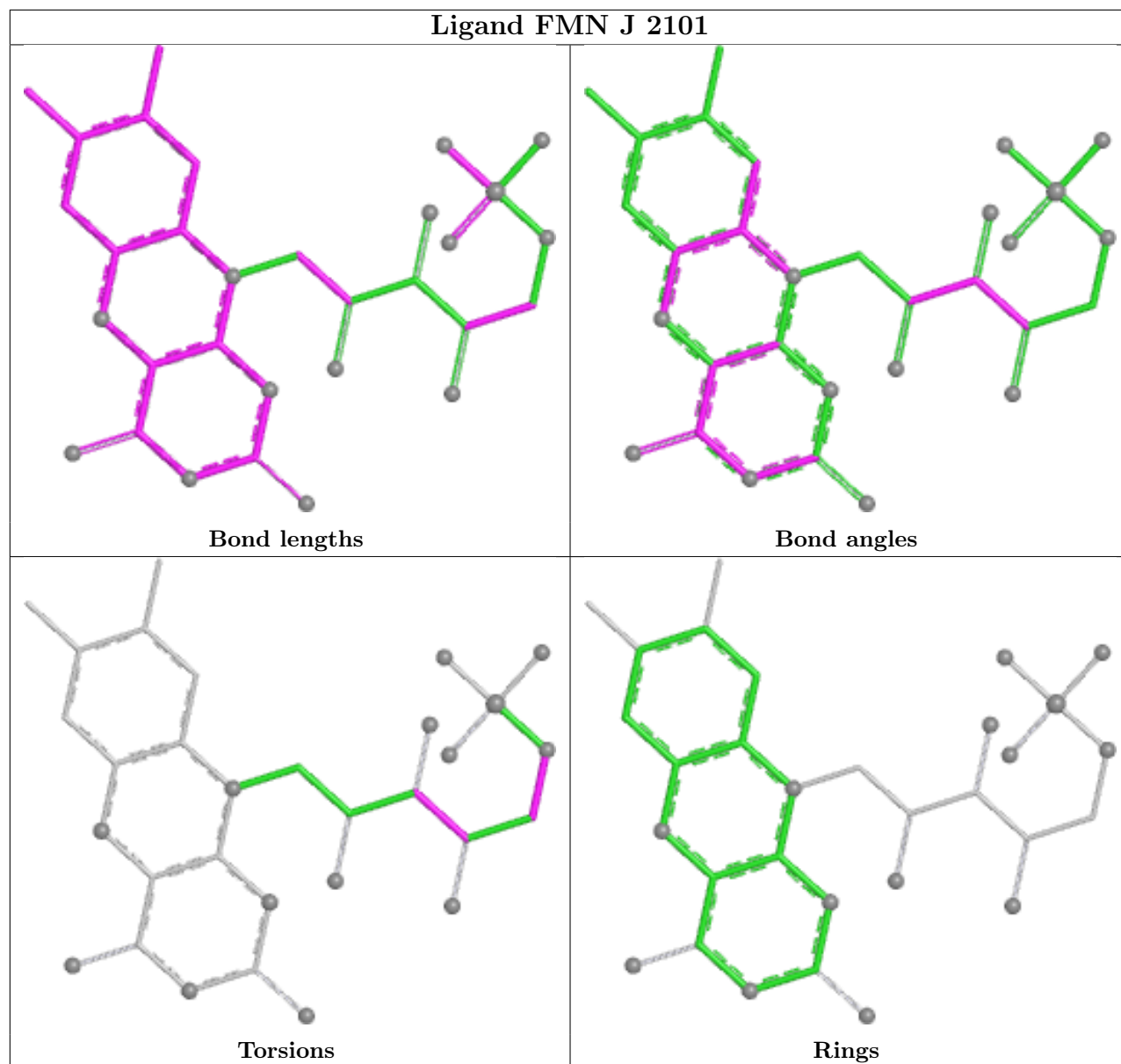


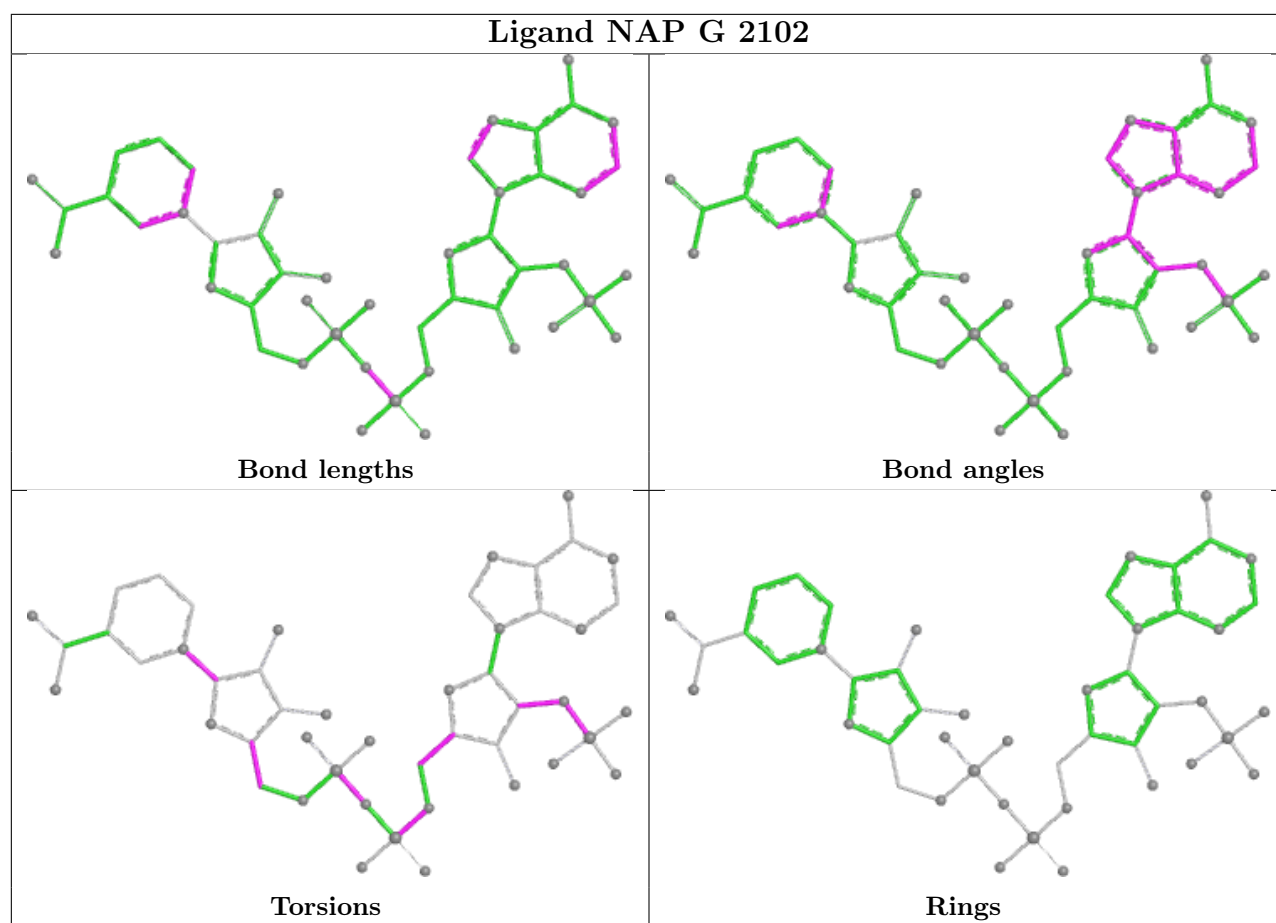


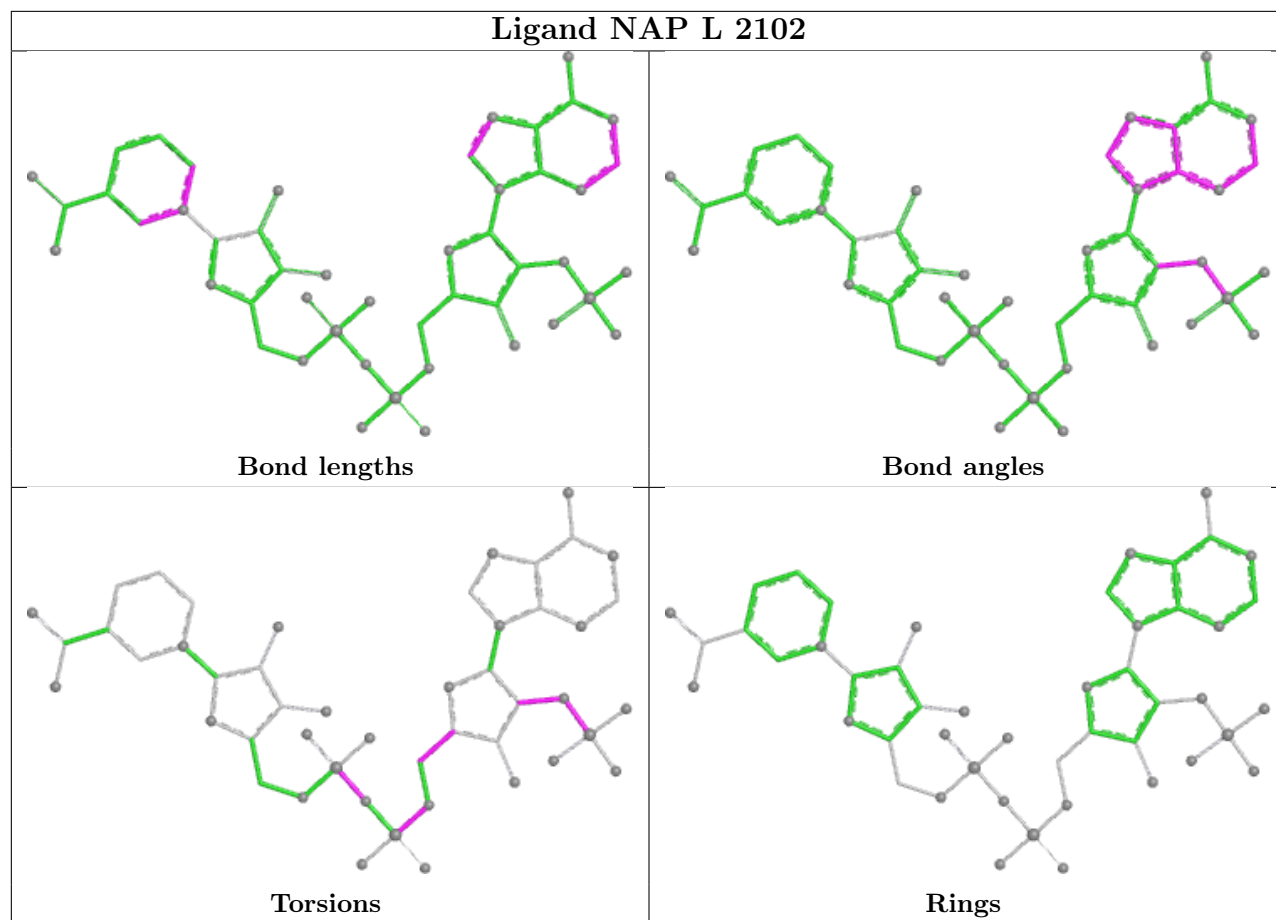
Ligand FMN H 2101

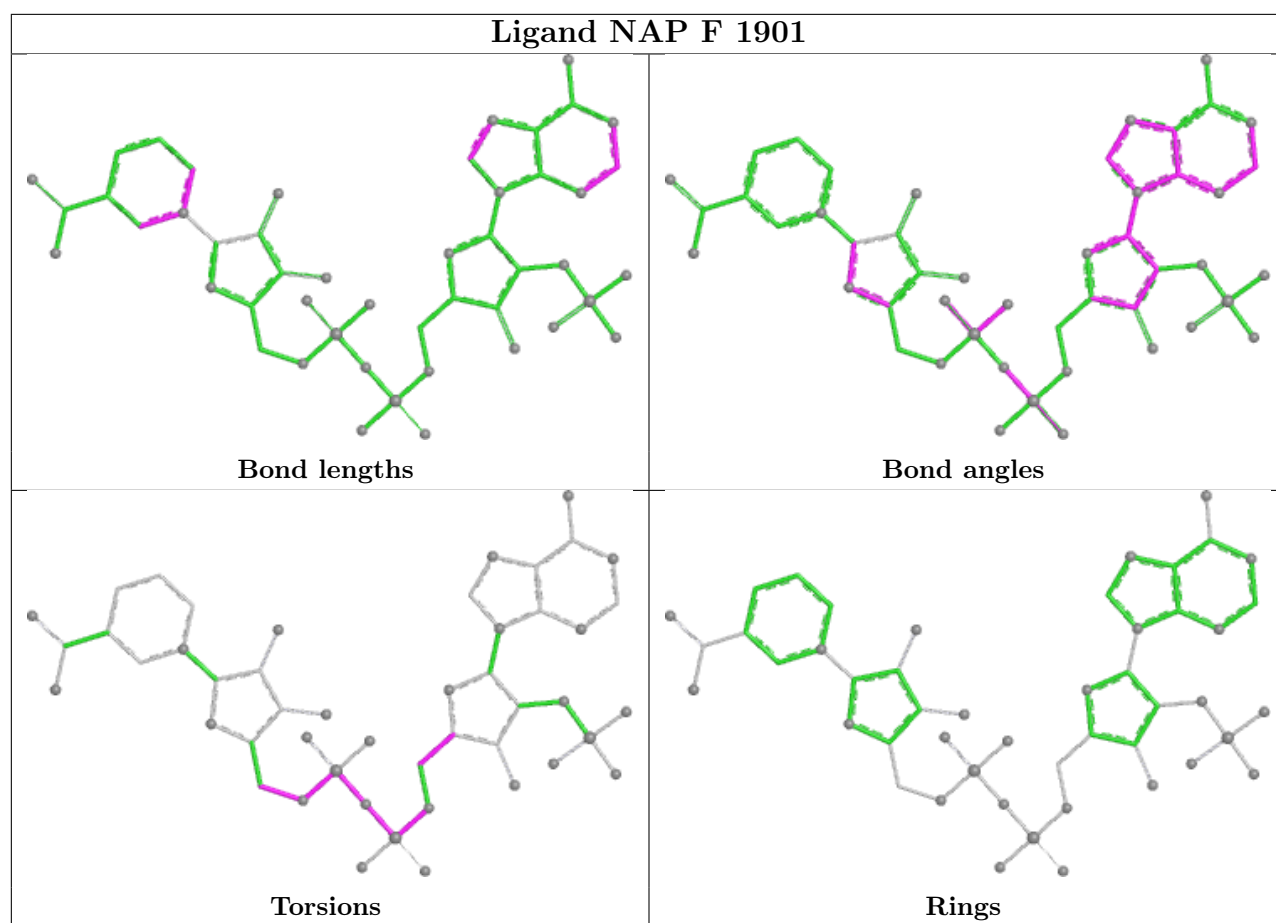












5.7 Other polymers [i](#)

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%)	-0.75	0 100 100	16, 50, 103, 146	0
1	B	1464/1878 (77%)	-0.79	2 (0%) 92 86	17, 50, 106, 157	0
1	C	1462/1878 (77%)	-0.80	0 100 100	15, 48, 107, 155	0
1	D	1467/1878 (78%)	-0.77	0 100 100	17, 52, 106, 151	0
1	E	1456/1878 (77%)	-0.78	2 (0%) 92 86	17, 50, 106, 152	0
1	F	1461/1878 (77%)	-0.82	1 (0%) 92 86	17, 47, 106, 156	0
2	G	2060/2060 (100%)	-0.49	2 (0%) 92 86	24, 83, 128, 156	0
2	H	2060/2060 (100%)	-0.57	0 100 100	24, 85, 129, 155	0
2	I	2060/2060 (100%)	-0.50	3 (0%) 92 86	20, 85, 129, 158	0
2	J	2060/2060 (100%)	-0.48	2 (0%) 92 86	27, 88, 132, 157	0
2	K	2060/2060 (100%)	-0.23	17 (0%) 82 65	25, 90, 133, 157	0
2	L	2060/2060 (100%)	-0.51	0 100 100	22, 86, 131, 158	0
All	All	21127/23628 (89%)	-0.60	29 (0%) 92 86	15, 74, 125, 158	0

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	K	163	ALA	5.4
1	B	1452	SER	3.5
2	I	1911	THR	2.9
2	K	552	VAL	2.8
2	K	284	GLY	2.7
2	K	123	ALA	2.7
2	K	517	GLY	2.7
2	K	546	ASP	2.7
2	K	41	LEU	2.6
2	K	288	GLY	2.6
2	K	748	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
2	K	194	PRO	2.5
2	J	298	ALA	2.4
1	E	1136	GLY	2.3
2	G	298	ALA	2.3
1	B	1449	ALA	2.3
2	I	98	ASN	2.3
2	K	19	GLN	2.2
2	J	90	GLY	2.2
2	K	497	ASP	2.2
2	K	572	TRP	2.2
2	K	499	VAL	2.2
2	I	1954	GLN	2.1
1	F	63	SER	2.1
2	K	796	TRP	2.1
2	K	810	CYS	2.1
2	K	80	ILE	2.0
1	E	1469	GLU	2.0
2	G	86	GLU	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	NAP	D	1901	48/48	0.90	0.08	21,83,127,174	0
3	NAP	C	1901	48/48	0.91	0.08	23,81,130,171	0
3	NAP	K	2102	48/48	0.91	0.07	43,94,127,131	0
4	FMN	K	2101	31/31	0.92	0.09	27,66,110,123	0
3	NAP	F	1901	48/48	0.93	0.08	19,78,125,159	0

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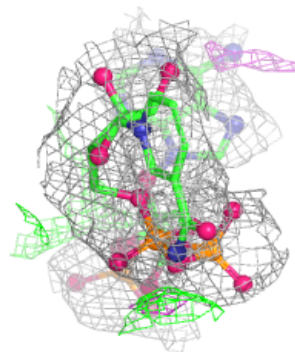
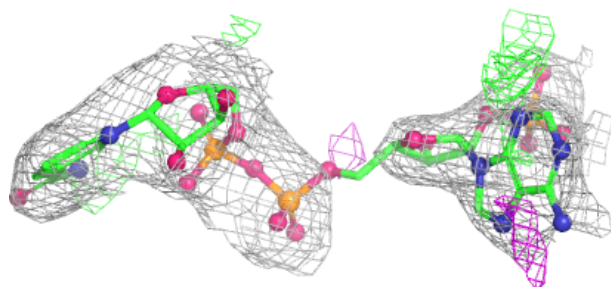
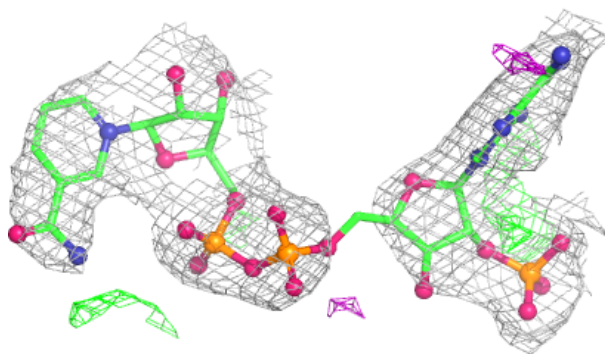
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	NAP	B	1901	48/48	0.93	0.08	23,78,115,145	0
3	NAP	E	1901	48/48	0.93	0.07	24,77,123,157	0
3	NAP	A	1901	48/48	0.94	0.07	19,76,121,169	0
3	NAP	G	2102	48/48	0.94	0.07	42,87,119,128	0
3	NAP	H	2102	48/48	0.95	0.06	37,85,113,122	0
3	NAP	L	2102	48/48	0.95	0.06	37,84,116,120	0
4	FMN	J	2101	31/31	0.95	0.09	23,61,101,113	0
3	NAP	J	2102	48/48	0.95	0.06	35,88,118,120	0
4	FMN	L	2101	31/31	0.95	0.09	19,59,102,114	0
3	NAP	I	2102	48/48	0.96	0.06	29,80,104,116	0
4	FMN	G	2101	31/31	0.96	0.09	26,63,101,111	0
4	FMN	H	2101	31/31	0.96	0.08	25,49,105,113	0
4	FMN	I	2101	31/31	0.97	0.07	22,56,87,103	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

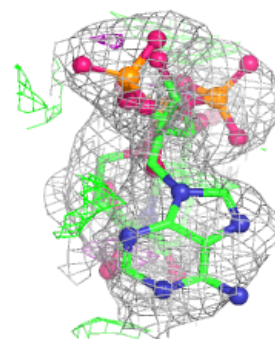
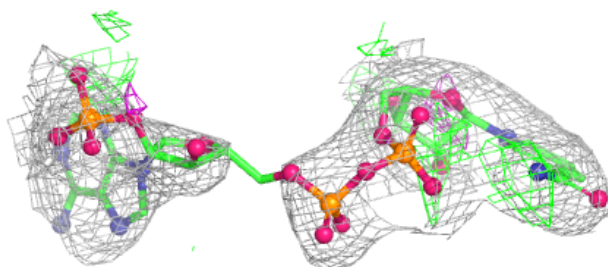
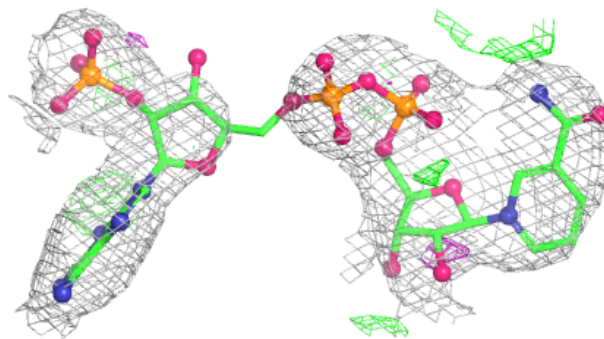
Electron density around NAP D 1901:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

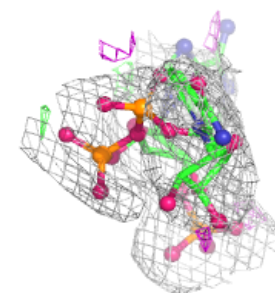
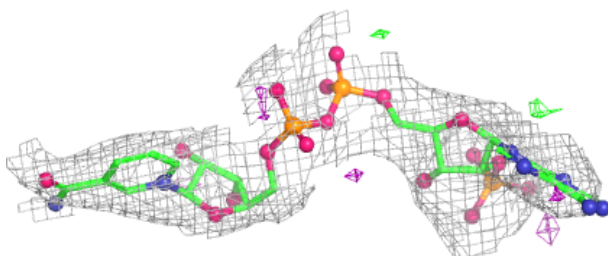
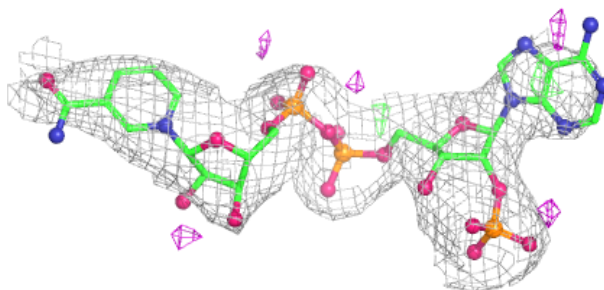


Electron density around NAP C 1901:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

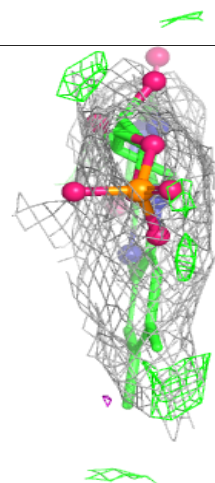
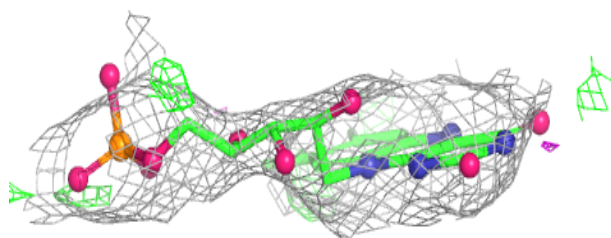
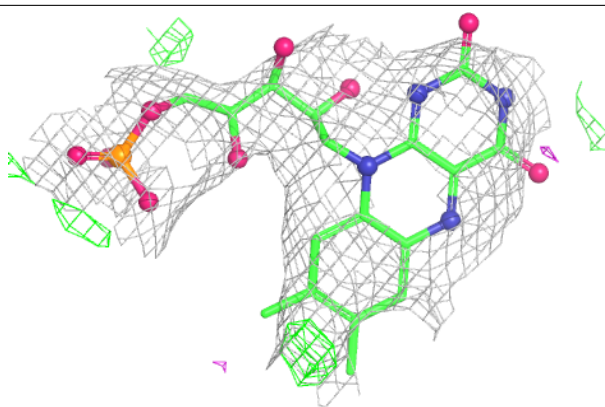
**Electron density around NAP K 2102:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

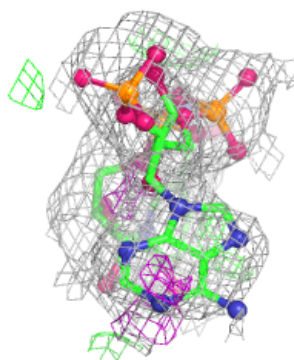
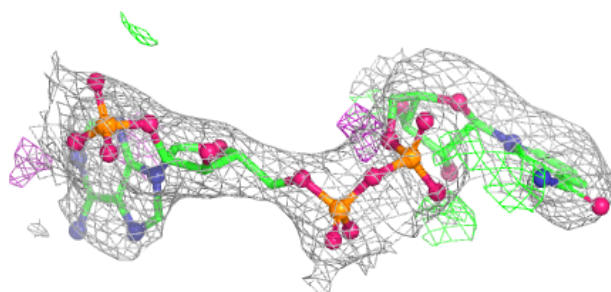
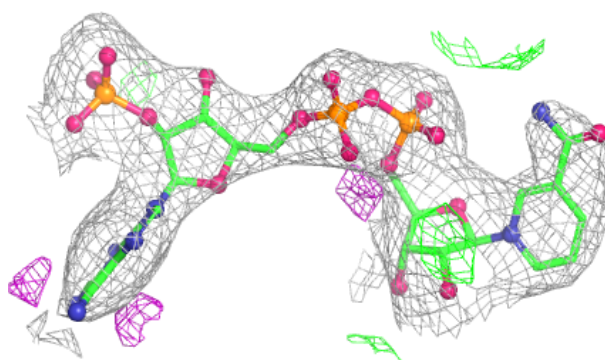


Electron density around FMN K 2101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

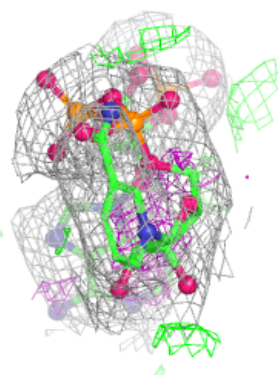
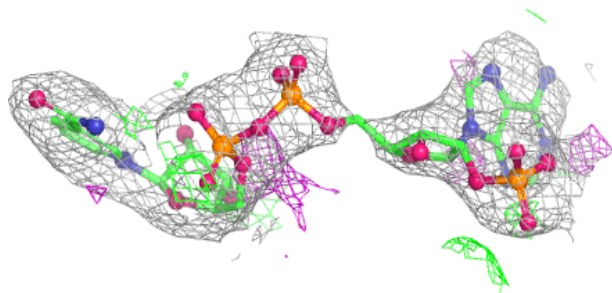
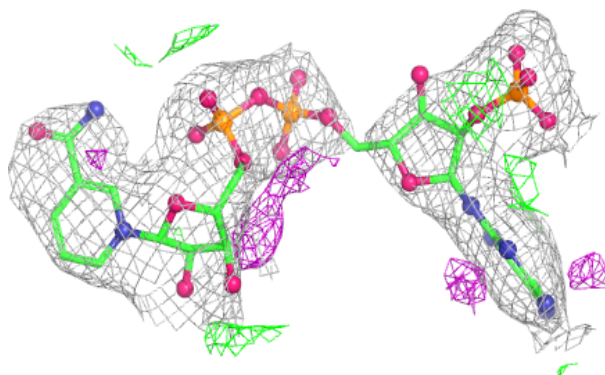
**Electron density around NAP F 1901:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

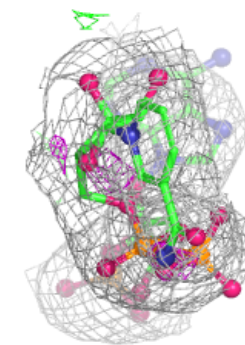
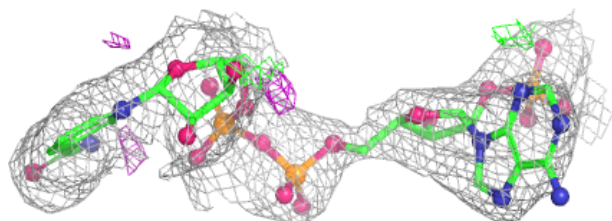
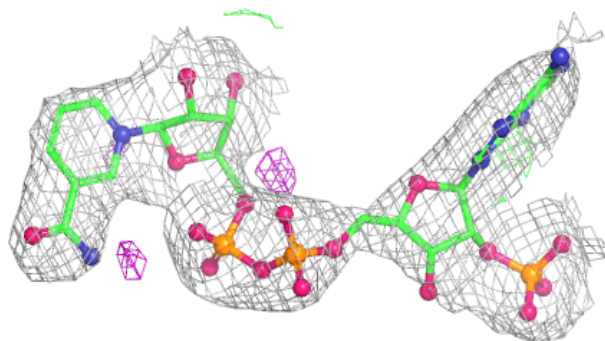


Electron density around NAP B 1901:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

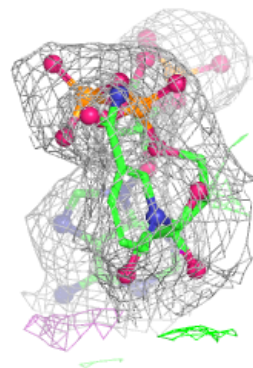
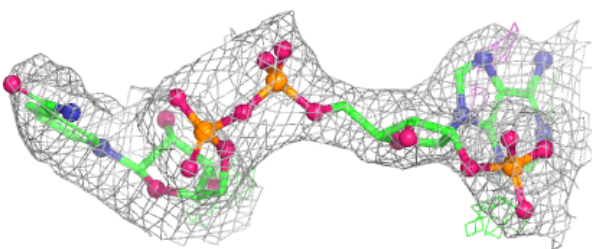
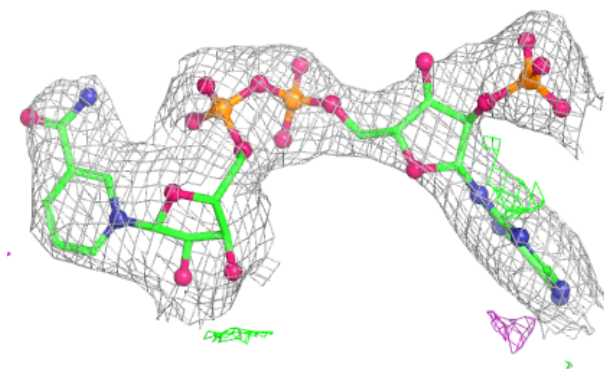
**Electron density around NAP E 1901:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

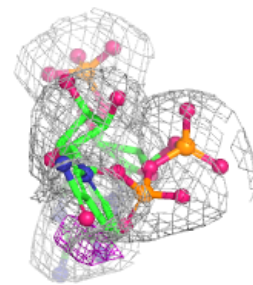
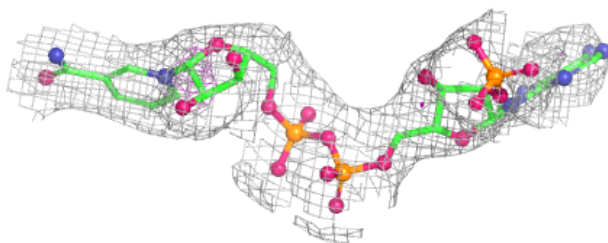
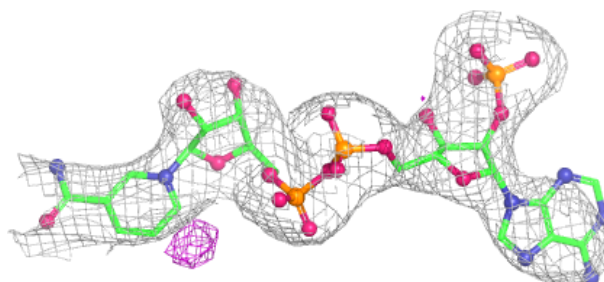


Electron density around NAP A 1901:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

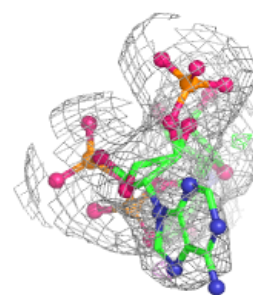
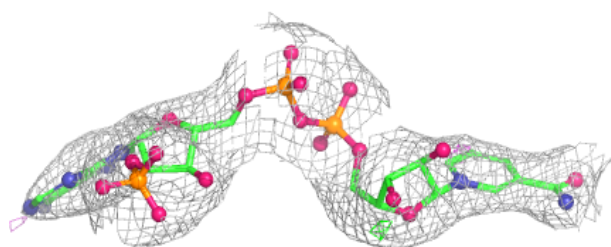
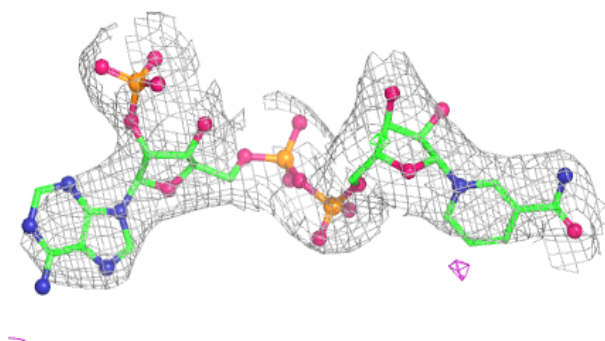
**Electron density around NAP G 2102:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

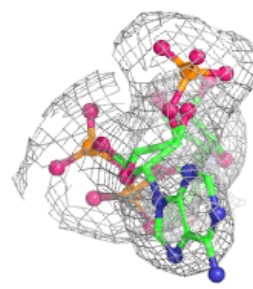
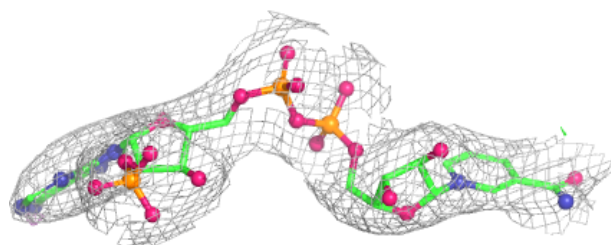
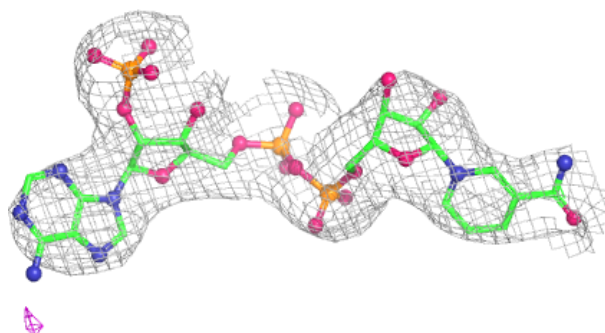


Electron density around NAP H 2102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

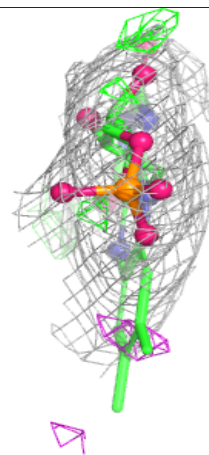
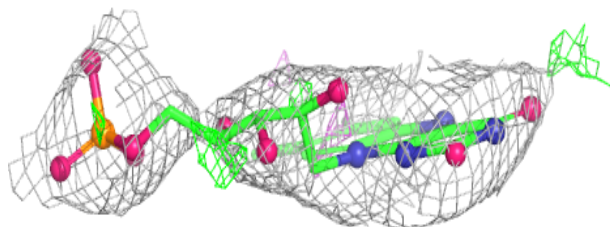
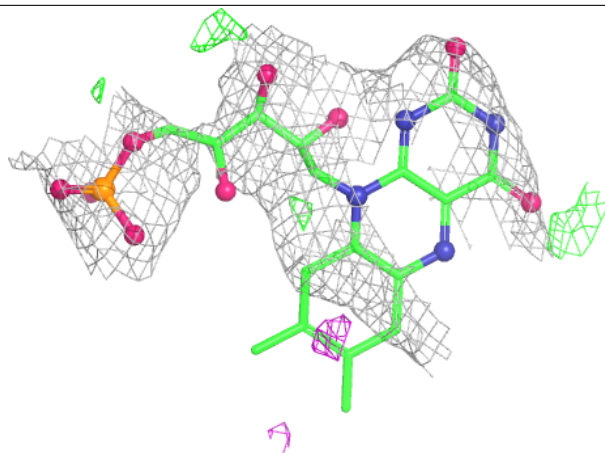
**Electron density around NAP L 2102:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

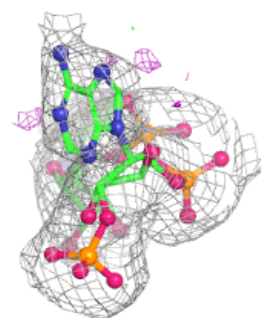
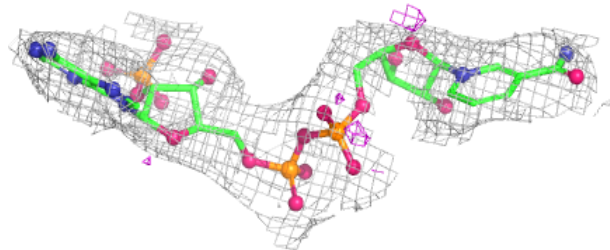
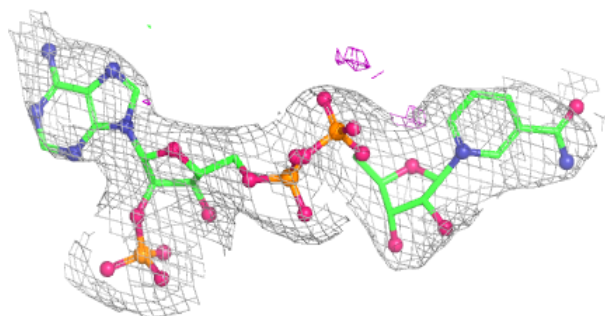


Electron density around FMN J 2101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

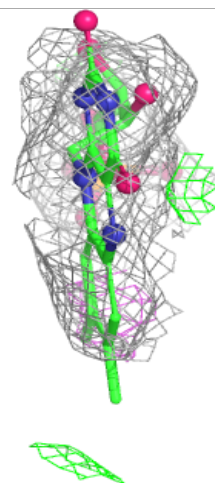
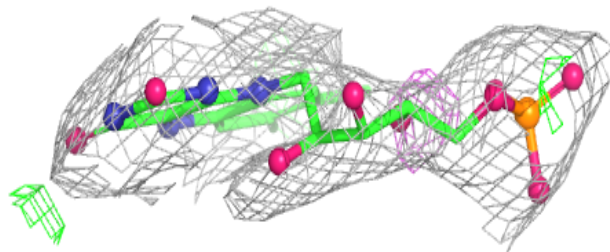
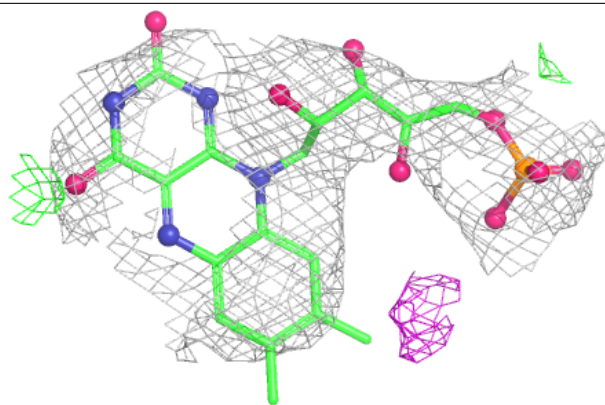
**Electron density around NAP J 2102:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



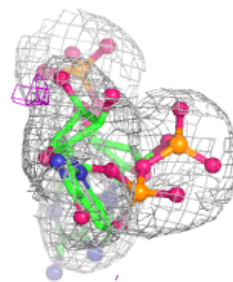
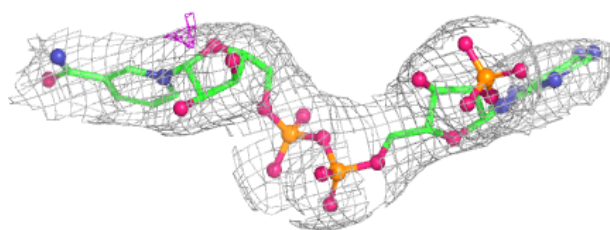
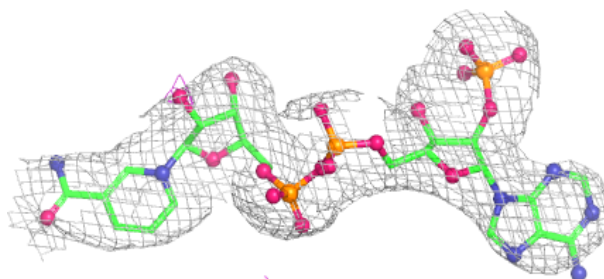
Electron density around FMN L 2101:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

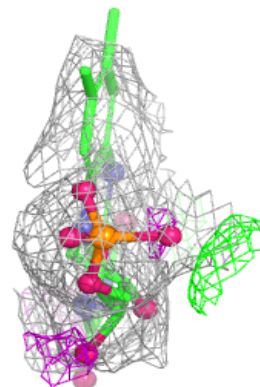
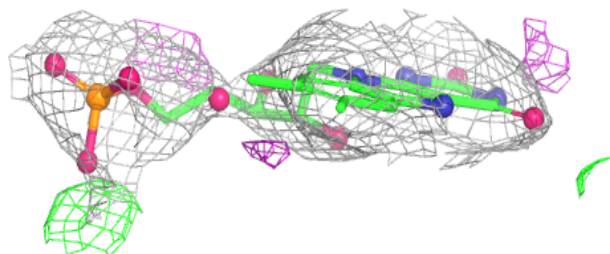
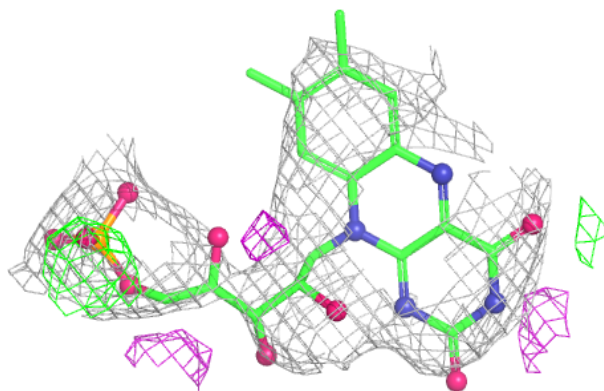


Electron density around NAP I 2102:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

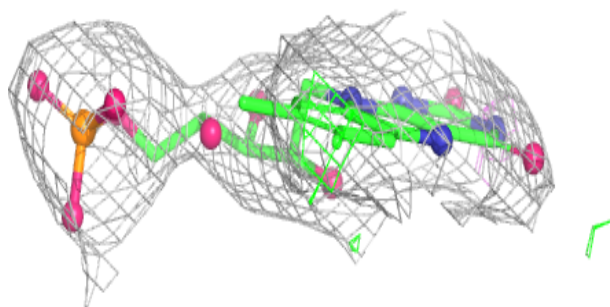
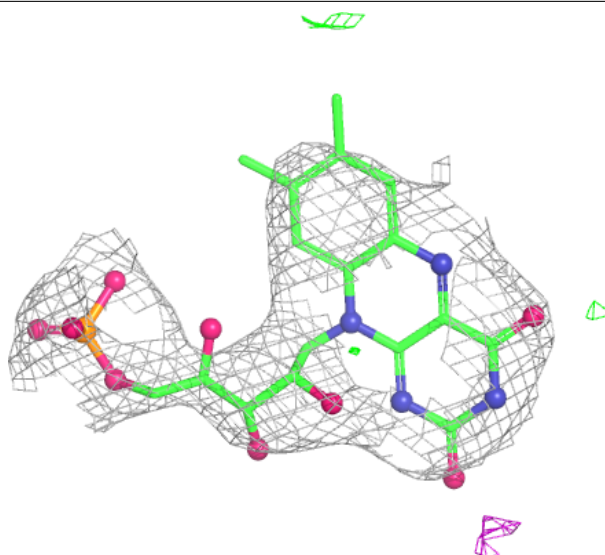
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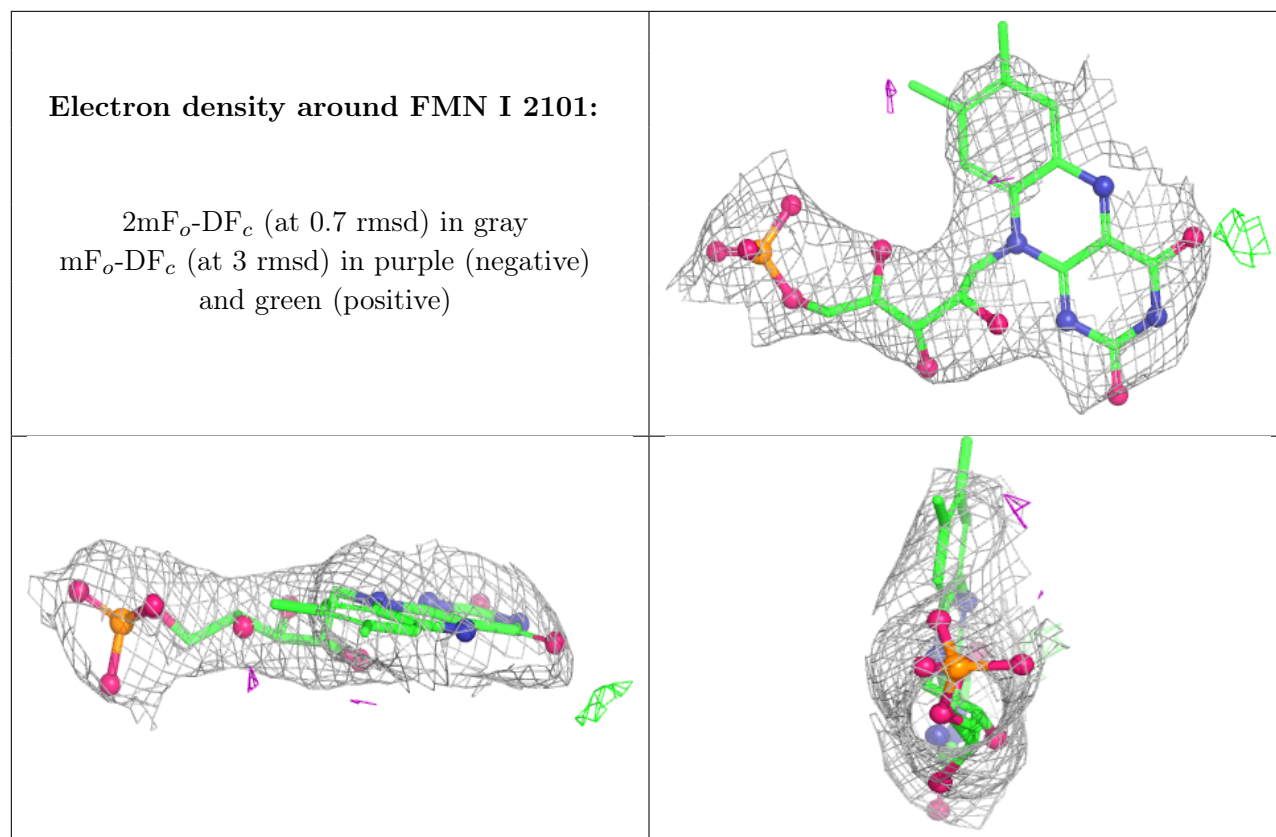
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and green (positive)



Electron density around FMN H 2101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers [i](#)

There are no such residues in this entry.