



Full wwPDB EM Validation Report (i)

Jul 7, 2024 – 01:03 AM JST

PDB ID : 8ZJ2
EMDB ID : EMD-60136
Title : Cryo-EM structure of the RhoG/DOCK5/ELMO1/Rac1 complex
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Mishima-Tsumagari, C.; Yonemochi, M.; Inoue, M.; Nakagawa, R.; Kaushik, R.; Zhang, K.Y.J.; Shirouzu, M.
Deposited on : 2024-05-14
Resolution : 4.66 Å(reported)
Based on initial models : 7DPA, 6IE1, 7Y4A

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

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the (i) 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 \(1\)](#)) were used in the production of this report:

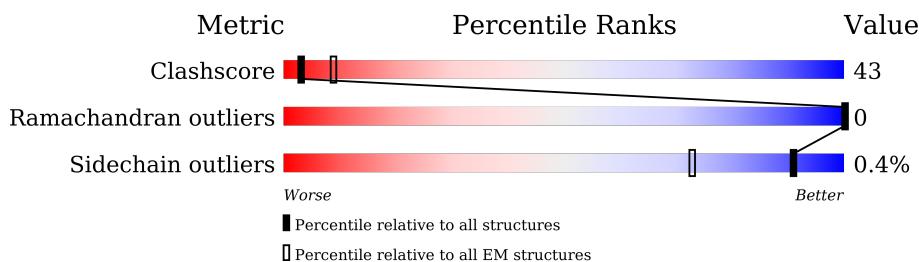
EMDB validation analysis : 0.0.1.dev92
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

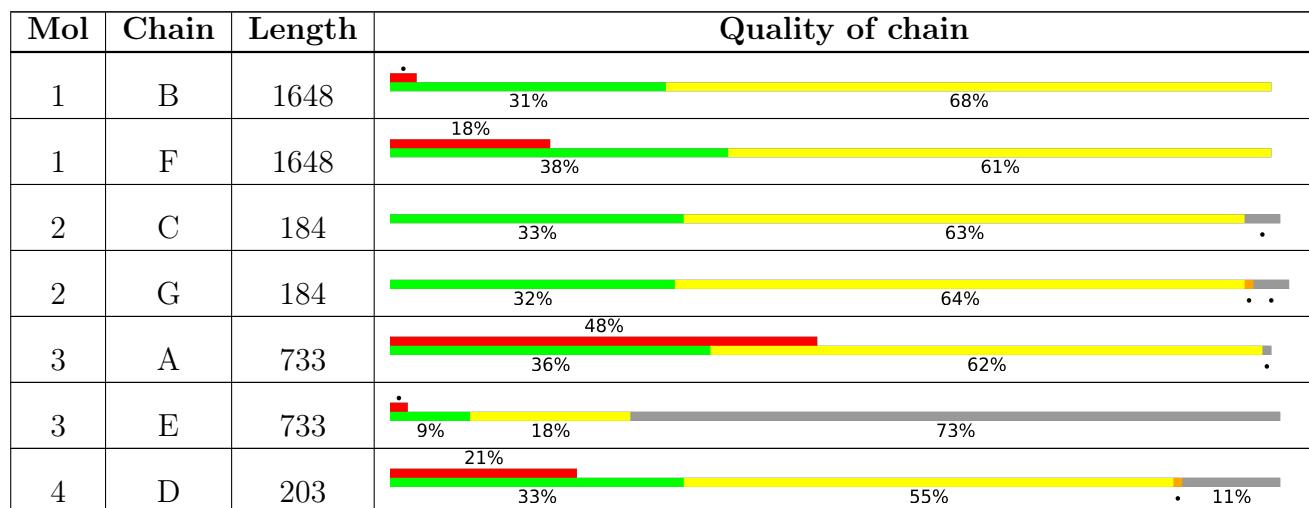
The reported resolution of this entry is 4.66 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.



2 Entry composition [\(i\)](#)

There are 6 unique types of molecules in this entry. The entry contains 38587 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Dediator of cytokinesis protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	1642	Total	C	N	O	S	0	0
			13436	8618	2264	2484	70		

Mol	Chain	Residues	Total	C	N	O	S	AltConf	Trace
1	F	1642	Total	C	N	O	S	0	0
			13436	8618	2264	2484	70		

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-5	GLY	-	expression tag	UNP Q9H7D0
B	-4	GLY	-	expression tag	UNP Q9H7D0
B	-3	SER	-	expression tag	UNP Q9H7D0
B	-2	GLY	-	expression tag	UNP Q9H7D0
B	-1	GLY	-	expression tag	UNP Q9H7D0
B	0	SER	-	expression tag	UNP Q9H7D0
B	1285	ARG	LYS	variant	UNP Q9H7D0
F	-5	GLY	-	expression tag	UNP Q9H7D0
F	-4	GLY	-	expression tag	UNP Q9H7D0
F	-3	SER	-	expression tag	UNP Q9H7D0
F	-2	GLY	-	expression tag	UNP Q9H7D0
F	-1	GLY	-	expression tag	UNP Q9H7D0
F	0	SER	-	expression tag	UNP Q9H7D0
F	1285	ARG	LYS	variant	UNP Q9H7D0

- Molecule 2 is a protein called Ras-related C3 botulinum toxin substrate 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		

Mol	Chain	Residues	Total	C	N	O	S	AltConf	Trace
2	G	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	-6	GLY	-	expression tag	UNP P63000
C	-5	SER	-	expression tag	UNP P63000
C	-4	SER	-	expression tag	UNP P63000
C	-3	GLY	-	expression tag	UNP P63000
C	-2	SER	-	expression tag	UNP P63000
C	-1	SER	-	expression tag	UNP P63000
C	0	GLY	-	expression tag	UNP P63000
C	15	ALA	GLY	engineered mutation	UNP P63000
G	-6	GLY	-	expression tag	UNP P63000
G	-5	SER	-	expression tag	UNP P63000
G	-4	SER	-	expression tag	UNP P63000
G	-3	GLY	-	expression tag	UNP P63000
G	-2	SER	-	expression tag	UNP P63000
G	-1	SER	-	expression tag	UNP P63000
G	0	GLY	-	expression tag	UNP P63000
G	15	ALA	GLY	engineered mutation	UNP P63000

- Molecule 3 is a protein called Engulfment and cell motility protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	E	199	Total	C	N	O	S		
			1617	1023	279	305	10	0	0
3	A	727	Total	C	N	O	S		
			5879	3721	1009	1108	41	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	-5	GLY	-	expression tag	UNP Q92556
E	-4	GLY	-	expression tag	UNP Q92556
E	-3	SER	-	expression tag	UNP Q92556
E	-2	GLY	-	expression tag	UNP Q92556
E	-1	GLY	-	expression tag	UNP Q92556
E	0	SER	-	expression tag	UNP Q92556
A	-5	GLY	-	expression tag	UNP Q92556
A	-4	GLY	-	expression tag	UNP Q92556
A	-3	SER	-	expression tag	UNP Q92556
A	-2	GLY	-	expression tag	UNP Q92556
A	-1	GLY	-	expression tag	UNP Q92556
A	0	SER	-	expression tag	UNP Q92556

- Molecule 4 is a protein called Rho-related GTP-binding protein RhoG.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	181	1416	897	248	263	8	0	0

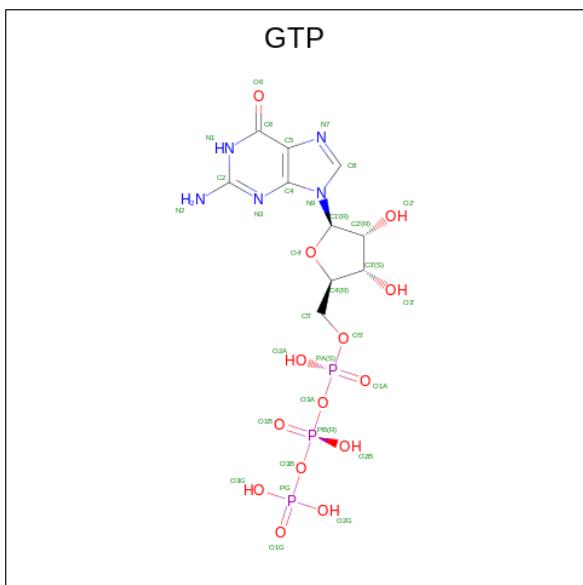
There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	-6	GLY	-	expression tag	UNP P84095
D	-5	SER	-	expression tag	UNP P84095
D	-4	SER	-	expression tag	UNP P84095
D	-3	GLY	-	expression tag	UNP P84095
D	-2	SER	-	expression tag	UNP P84095
D	-1	SER	-	expression tag	UNP P84095
D	0	GLY	-	expression tag	UNP P84095
D	61	LEU	GLN	engineered mutation	UNP P84095
D	185	SER	-	expression tag	UNP P84095
D	186	GLY	-	expression tag	UNP P84095
D	187	PRO	-	expression tag	UNP P84095
D	188	SER	-	expression tag	UNP P84095
D	189	SER	-	expression tag	UNP P84095
D	190	GLY	-	expression tag	UNP P84095
D	191	GLU	-	expression tag	UNP P84095
D	192	ASN	-	expression tag	UNP P84095
D	193	LEU	-	expression tag	UNP P84095
D	194	TYR	-	expression tag	UNP P84095
D	195	PHE	-	expression tag	UNP P84095
D	196	GLN	-	expression tag	UNP P84095

- Molecule 5 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	AltConf
5	D	1	Total 1 1	0

- Molecule 6 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: C₁₀H₁₆N₅O₁₄P₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
6	D	1	Total 32	C 10	N 5	O 14	P 3	0

3 Residue-property plots

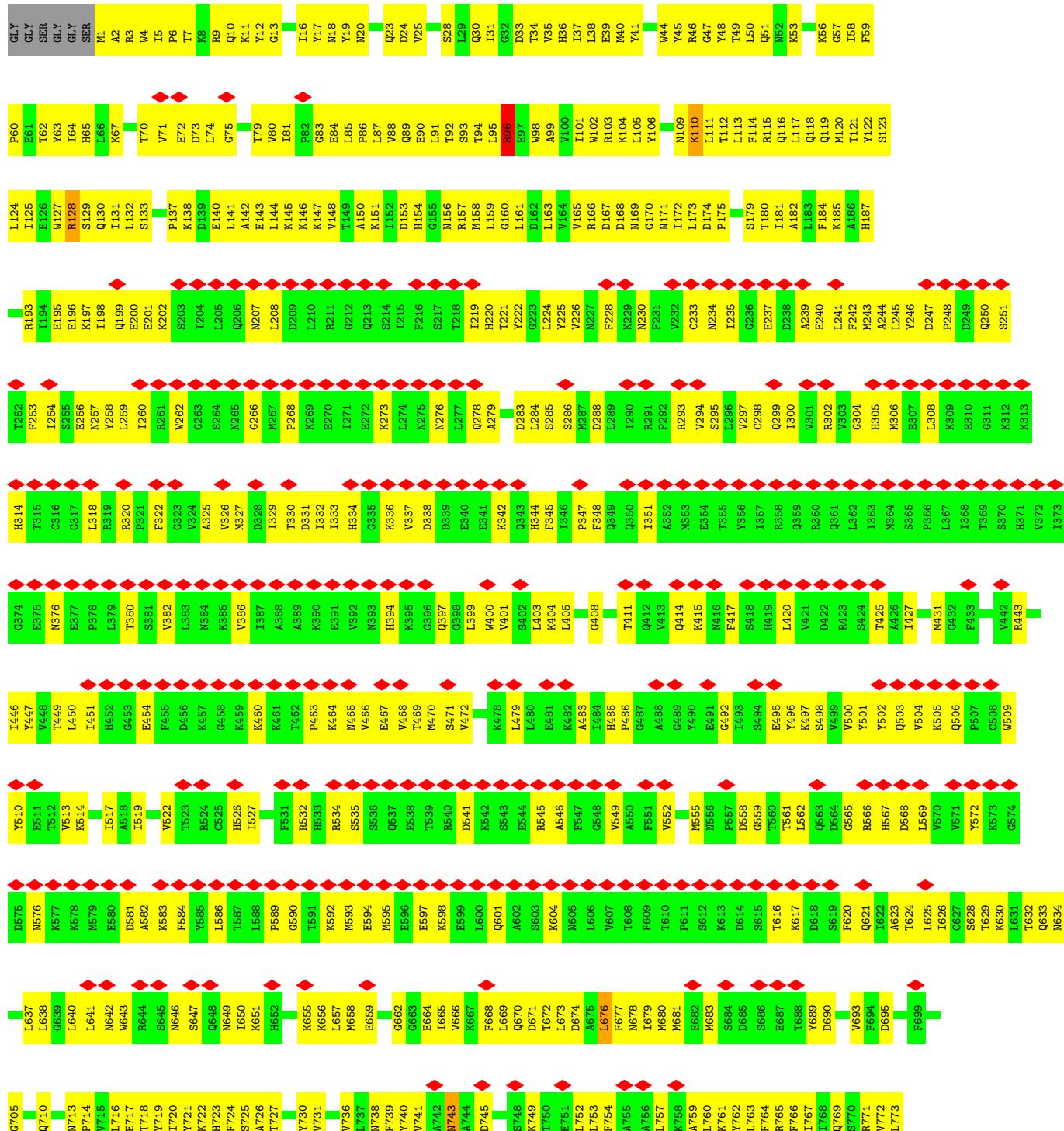
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

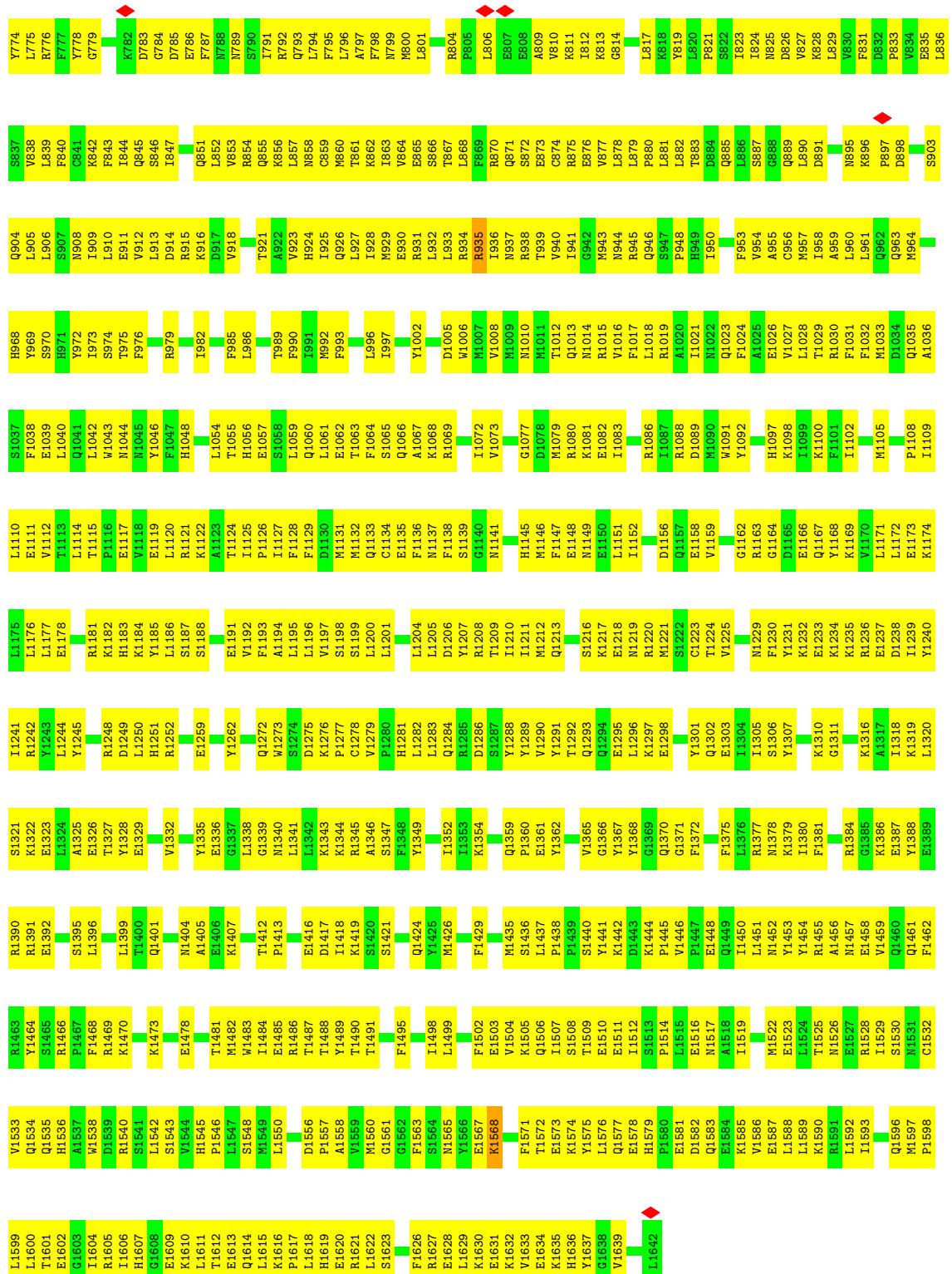
- Molecule 1: Dedicator of cytokinesis protein 5



N1517	K1234	V1170	L1102	P1103	S903	S867	V774	K678	Q710
I1518	L1235	I1305	S1171	S1104	I035	H968	L899	H711	L775
I1519	Q1449	L1376	R1306	R1236	A1306	Y969	F840	F712	R776
E1520	T1451	R1377	Y1307	E1237	M1105	S1037	S970	F777	P777
T1521	M1452	K1378	N1378	D1238	K1174	E1038	H971	S907	V779
M1522	K1379	K1310	K1379	I1239	L1175	E1039	Y972	N908	F843
E1523	Y1453	G1311	I1380	Y1240	L1176	P1108	Y973	Y909	I844
L1524	Y1454	Y1454	E1381	E1241	L1177	E1109	S974	S945	S790
T1525	R1455	M1526	I1382	E1315	E1242	E1102	T975	S846	V779
M1526	Y1383	K1316	Y1243	C1180	H1179	E1111	F976	Y913	D733
E1527	V1459	R1460	G1385	I1318	L1172	V1112	R977	D914	D914
R1528	I1461	K1386	K1319	E1175	K1182	R1181	R979	M1045	M1045
I1529	F1462	E1392	L1320	R1248	H1183	P1116	F1047	V1046	V1046
N1530	S1531	R1463	Y1388	S1321	K1184	E1117	H1048	I983	D917
C1532	V1464	E1389	K1322	L1250	Y1185	V1118	L1049	D984	D984
V1533	R1465	S1466	R1390	E1323	L1186	E1119	A1040	F985	F985
Q1534	P1467	I1391	L1324	N1256	S1187	L1187	V1051	I986	I986
W1535	H1536	F1468	E1392	T1327	S1198	R1121	T1055	I1046	I1046
G1537	E1469	F1393	T1327	E1259	G1190	T1124	H1046	H1046	H1046
C1538	V1470	E1395	E1329	E1330	V1192	E1125	E1037	F990	F990
M1539	S1540	D1474	L1399	T1263	F1193	I1127	L1059	M992	M992
P1540	L1542	T1400	V1332	L1264	A1194	F1128	Q1060	F993	F993
I1543	N1477	Q1401	E1478	E1268	L1195	F1129	E1032	K994	K994
V1544	H1545	F1402	Y1335	E1269	L1196	D1130	E1032	D995	D995
P1545	T1481	A1405	M1477	E1336	V1197	M1131	T1033	L996	L996
P1546	M1482	A1405	S1547	E1336	L1269	M1132	E1044	I997	I997
S1547	V1483	E1406	M1477	E1336	S1198	S1065	S1065	S998	S998
M1548	I1484	K1407	N1477	E1336	S1199	Q1133	E1032	R934	R934
M1549	K1485	M1408	E1478	E1275	L1200	F1136	R1068	A1003	A1003
L1550	E1485	M1408	T1409	E1336	E1275	M1137	R1069	V936	V936
L1551	R1486	T1409	L1342	E1276	M1203	N1143	M1066	W1006	W1006
T1552	V1487	S1410	K1411	E1337	L1271	S1139	E1072	M1072	M1072
M1553	T1488	E1411	T1412	R1345	E1276	D1205	F1144	V1073	V1073
I1554	Y1489	P1412	P1413	A1346	V1279	D1206	H1145	D1145	D1145
P1555	P1556	P1557	T1490	T1491	E1347	D1280	E1146	Y1076	Y1076
F1556	F1556	P1557	E1416	E1416	S1347	H1281	F1147	M1079	M1079
M1557	M1557	P1557	E1416	E1416	L1282	T1209	E1148	M1079	M1079
G1558	G1558	T1492	T1492	E1416	I1353	E1283	I1210	N1143	N1143
H1559	H1559	T1492	T1492	E1416	K1354	Q1284	E1211	E1144	E1144
I1560	I1560	T1492	T1492	E1416	K1354	Q1285	M1212	L1151	L1151
J1561	J1561	T1492	T1492	E1416	K1355	Q1286	L1213	L1152	L1152
K1562	K1562	F1562	K1419	K1419	K1424	R1357	E1218	D1156	D1156
L1563	L1563	P1496	P1496	P1496	M1356	M1356	P1360	D1156	D1156
M1564	M1564	P1567	T1493	T1493	Y1425	R1357	E1218	D1157	D1157
N1565	N1565	N1565	K1499	K1499	Y1425	S1287	E1218	E1157	E1157
O1566	O1566	K1500	K1500	M1426	P1358	S1288	E1218	D1158	D1158
P1567	P1567	T1501	T1501	M1426	K1501	Y1359	E1217	L1155	L1155
Q1568	Q1568	F1502	F1502	Q1427	Q1427	Y1289	E1218	D1156	D1156
R1569	R1569	A1569	A1569	P1428	P1360	V1290	E1218	D1156	D1156
S1570	S1570	K1505	K1505	F1429	E1361	Y1291	N1219	Q1023	Q1023
T1571	T1571	Q1506	Q1506	F1429	E1362	T1292	E1220	E1158	E1158
U1572	U1572	I1507	I1507	P1433	F1363	Q1293	M1221	V1159	V1159
V1573	V1573	E1507	E1507	P1433	P1433	Q1294	E1224	T1157	T1157
W1574	W1574	E1507	E1507	P1433	P1433	Q1295	E1224	R1094	R1094
X1575	X1575	E1509	E1509	P1434	P1434	Q1296	E1224	G1164	G1164
Y1576	Y1576	E1510	E1510	P1435	P1435	Q1297	E1224	V1227	V1227
Z1577	Z1577	E1511	E1511	P1436	P1436	Q1298	E1224	S1165	S1165
H1578	H1578	P1514	P1514	P1437	P1437	Q1299	E1224	S1166	S1166
I1579	I1579	E1516	E1516	P1438	P1438	Q1299	E1224	V1301	V1301
J1580	J1580	P1439	P1439	P1439	P1439	Q1299	E1224	E835	E835
K1581	K1581	K1442	K1442	P1439	P1439	Q1299	E1224	V779	V779

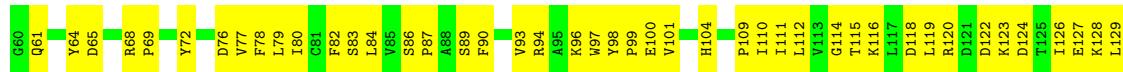
- Molecule 1: Dedicator of cytokinesis protein 5



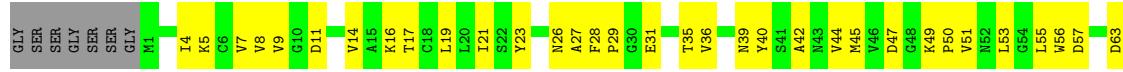


- Molecule 2: Ras-related C3 botulinum toxin substrate 1

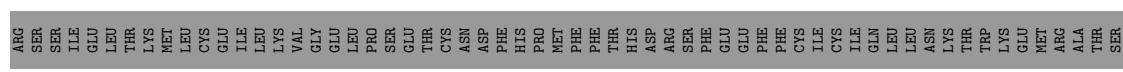
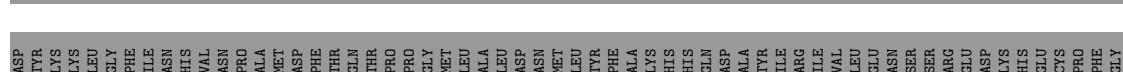
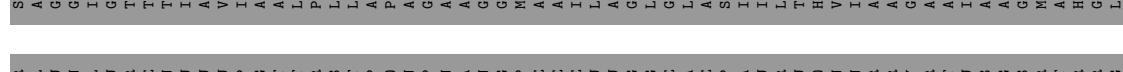
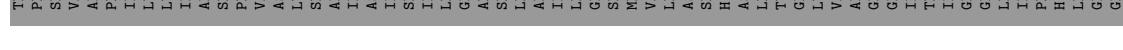
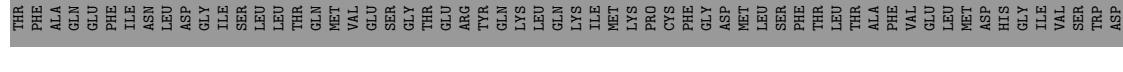
Chain C: 33% 63% •



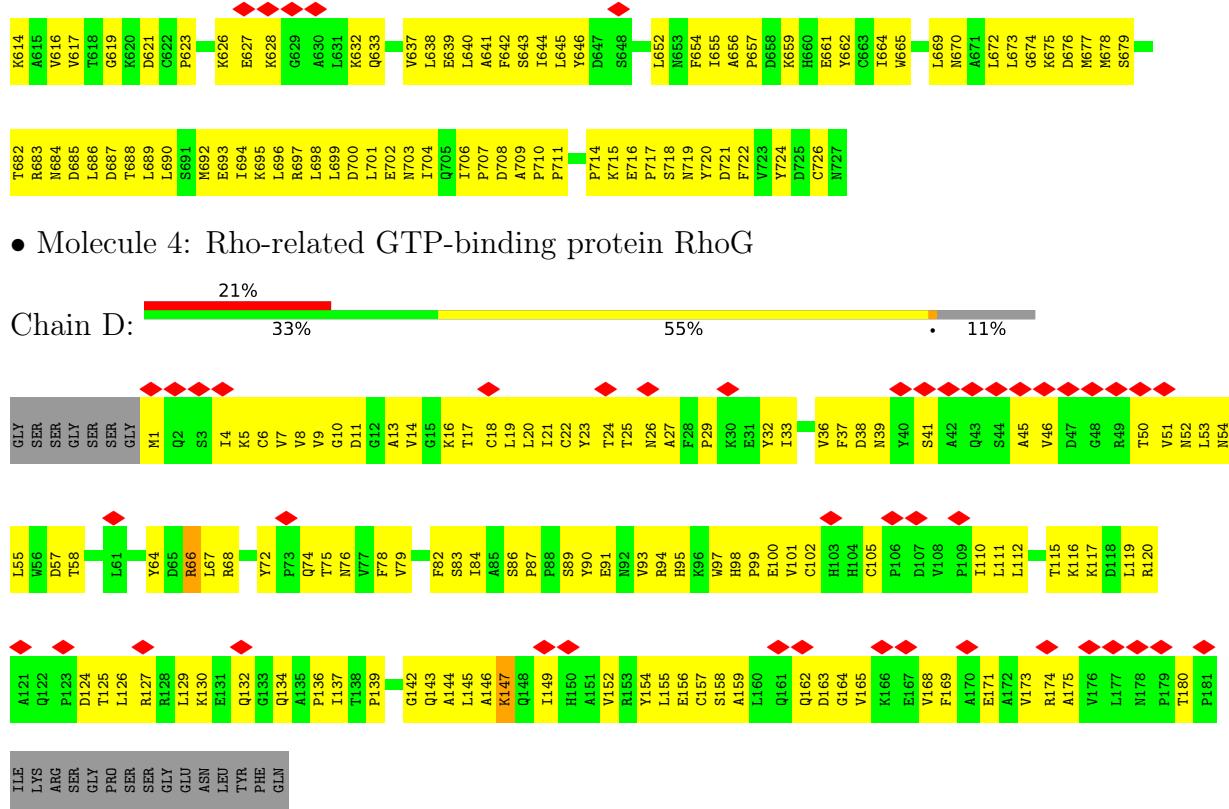
- Molecule 2: Ras-related C3 botulinum toxin substrate 1



- Molecule 3: Engulfment and cell motility protein 1







4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	169096	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.062	Depositor
Minimum map value	-0.021	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	452.2, 452.2, 452.2	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

5 Model quality [\(i\)](#)

5.1 Standard geometry [\(i\)](#)

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

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	B	0.41	0/13722	0.58	1/18514 (0.0%)
1	F	0.34	0/13722	0.55	2/18514 (0.0%)
2	C	0.36	0/1415	0.55	0/1924
2	G	0.34	0/1415	0.54	0/1924
3	A	0.30	0/5992	0.55	0/8086
3	E	0.30	0/1650	0.56	0/2230
4	D	0.30	0/1449	0.51	0/1977
All	All	0.36	0/39365	0.56	3/53169 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	F	676	LEU	CA-CB-CG	6.09	129.30	115.30
1	B	992	MET	CA-CB-CG	-5.47	104.00	113.30
1	F	96	ARG	CB-CG-CD	5.10	124.86	111.60

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	110	LYS	Peptide

5.2 Too-close contacts [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	13436	0	13516	1324	0
1	F	13436	0	13516	1068	0
2	C	1385	0	1407	117	0
2	G	1385	0	1407	139	0
3	A	5879	0	5902	479	0
3	E	1617	0	1625	159	0
4	D	1416	0	1413	123	0
5	D	1	0	0	0	0
6	D	32	0	12	4	0
All	All	38587	0	38798	3295	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 43.

All (3295) 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:1028:LEU:O	1:F:1032:PHE:HB2	1.63	0.98
1:F:1217:LYS:HA	1:F:1220:ARG:HE	1.31	0.94
3:A:302:PHE:HB3	3:A:431:GLY:H	1.31	0.94
1:B:1462:PHE:HB2	1:B:1489:TYR:HB2	1.46	0.94
1:F:740:TYR:HA	1:F:749:LYS:HD3	1.47	0.94
3:A:209:VAL:HG11	3:A:249:ALA:HB1	1.51	0.92
1:B:37:ILE:HA	1:B:47:GLY:HA3	1.53	0.90
1:B:1209:THR:O	1:B:1213:GLN:HB3	1.70	0.89
1:B:789:ASN:HB3	1:B:793:GLN:HE22	1.37	0.88
1:F:37:ILE:HA	1:F:47:GLY:HA3	1.55	0.88
1:F:153:ASP:OD1	1:F:197:LYS:NZ	2.07	0.88
1:B:655:LYS:HB2	1:B:656:LYS:HZ2	1.37	0.87
1:F:25:VAL:HG21	1:F:56:LYS:HG3	1.58	0.86
1:B:1166:GLU:HA	1:B:1169:LYS:HE3	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:617:VAL:HB	3:A:621:ASP:HB3	1.57	0.86
1:B:1391:ARG:HD2	1:B:1429:PHE:HA	1.56	0.85
2:G:171:GLU:HA	2:G:174:ARG:HG2	1.58	0.85
1:F:157:ARG:NH2	1:F:201:GLU:OE1	2.08	0.85
1:B:285:SER:H	1:B:288:ASP:HB2	1.42	0.84
1:F:35:VAL:HG12	1:F:49:THR:HG22	1.60	0.84
1:F:1284:GLN:HE21	1:F:1286:ASP:HB2	1.40	0.84
1:B:19:TYR:HH	1:B:44:TRP:HH2	1.21	0.84
1:B:945:ARG:HH21	1:B:946:GLN:HG2	1.39	0.84
1:F:668:PHE:HB3	1:F:671:ASP:HB2	1.58	0.84
1:B:927:LEU:HB3	1:B:931:ARG:HH12	1.42	0.83
1:F:1057:GLU:HA	1:F:1061:LEU:HD13	1.60	0.83
1:F:806:LEU:HD12	1:F:813:LYS:HD3	1.60	0.83
1:B:1439:PRO:HA	1:B:1442:LYS:HZ2	1.44	0.83
1:F:1633:VAL:HA	1:F:1637:TYR:HB2	1.59	0.83
1:F:1291:TYR:HB3	1:F:1296:LEU:HD21	1.59	0.83
1:B:1353:ILE:O	1:B:1449:GLN:NE2	2.12	0.82
3:A:306:GLU:HA	3:A:309:MET:HG2	1.59	0.82
1:B:537:GLN:HB2	1:B:540:ARG:HB3	1.60	0.82
1:F:1587:GLU:HA	1:F:1590:LYS:HD2	1.62	0.82
1:B:323:GLY:HA2	1:B:351:ILE:HG13	1.61	0.82
1:B:330:THR:HA	1:B:333:ILE:HG12	1.62	0.81
1:B:1184:LYS:HG3	1:B:1185:TYR:H	1.45	0.81
1:B:904:GLN:O	1:B:908:ASN:ND2	2.13	0.81
1:F:1233:GLU:O	1:F:1235:LYS:NZ	2.14	0.81
3:E:670:ASN:ND2	3:E:676:ASP:O	2.13	0.81
2:C:116:LYS:HB3	2:C:119:LEU:HB2	1.62	0.81
1:F:132:LEU:HD22	3:E:703:ASN:HB2	1.61	0.81
1:B:1284:GLN:HG2	1:B:1286:ASP:H	1.45	0.81
1:F:297:VAL:HG12	1:F:299:GLN:HE21	1.42	0.81
1:F:1245:TYR:HD2	1:F:1248:ARG:HH21	1.29	0.81
2:G:90:PHE:HE2	2:G:137:ILE:HB	1.46	0.80
1:B:1057:GLU:O	1:B:1080:ARG:NH1	2.14	0.80
1:B:666:VAL:HA	1:B:669:LEU:HD23	1.64	0.80
3:A:670:ASN:ND2	3:A:676:ASP:O	2.13	0.80
1:B:1028:LEU:O	1:B:1032:PHE:HB2	1.80	0.80
1:B:851:GLN:O	1:B:856:LYS:NZ	2.14	0.80
1:B:1315:GLU:OE2	1:B:1357:ARG:NH2	2.13	0.80
3:A:79:THR:HG21	3:A:87:GLN:HE22	1.47	0.80
1:B:769:GLN:OE1	1:B:776:ARG:NH2	2.15	0.80
1:F:879:LEU:HG	1:F:931:ARG:HH22	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1301:TYR:HE2	1:F:1320:LEU:HD12	1.47	0.80
1:F:1056:HIS:ND1	1:F:1057:GLU:OE2	2.14	0.79
2:C:153:LYS:NZ	2:C:154:TYR:O	2.16	0.79
1:F:910:LEU:HA	1:F:913:LEU:HD12	1.63	0.79
2:G:45:MET:HB3	2:G:50:PRO:HA	1.64	0.79
1:F:45:TYR:HD2	1:F:64:ILE:HG13	1.48	0.79
3:E:537:LYS:HB2	3:E:694:ILE:HG21	1.65	0.79
3:A:241:THR:O	3:A:293:GLN:NE2	2.17	0.78
3:A:448:HIS:HB3	3:A:451:SER:HB3	1.65	0.78
1:B:19:TYR:H	1:B:28:SER:HA	1.47	0.78
1:B:1543:SER:OG	1:B:1545:HIS:ND1	2.17	0.78
2:C:39:ASN:H	2:C:57:ASP:HB3	1.47	0.78
1:B:95:LEU:HA	1:B:98:TRP:CD1	2.18	0.78
1:B:485:HIS:HA	1:B:492:GLY:HA2	1.66	0.78
1:B:560:THR:HG22	1:B:638:LEU:HG	1.66	0.78
1:B:1057:GLU:HA	1:B:1061:LEU:HD13	1.65	0.78
1:B:1245:TYR:HD2	1:B:1248:ARG:HH21	1.31	0.78
1:F:166:ARG:NH1	1:F:167:ASP:OD1	2.16	0.78
1:F:1217:LYS:HG2	1:F:1220:ARG:HH21	1.46	0.78
1:B:1360:PRO:HA	1:B:1387:GLU:HA	1.64	0.77
1:B:46:ARG:NH2	3:A:726:CYS:SG	2.57	0.77
1:B:940:VAL:HA	1:B:943:MET:HB3	1.65	0.77
1:F:1088:ARG:HG3	1:F:1127:ILE:HD11	1.64	0.77
1:B:476:GLU:HG3	1:B:583:LYS:HD2	1.67	0.77
1:B:1159:VAL:O	1:B:1208:ARG:NH1	2.18	0.77
1:B:1276:LYS:NZ	1:B:1277:PRO:O	2.14	0.77
1:B:1579:HIS:HB3	1:B:1582:ASP:HB2	1.66	0.77
1:F:986:LEU:HG	1:F:1028:LEU:HD21	1.67	0.77
1:F:1057:GLU:O	1:F:1080:ARG:NH1	2.17	0.77
1:F:1360:PRO:HA	1:F:1387:GLU:HA	1.64	0.77
1:F:904:GLN:OE1	1:F:908:ASN:ND2	2.17	0.77
1:F:1221:MET:HE1	1:F:1250:LEU:HB3	1.65	0.77
3:A:331:ALA:HB1	3:A:399:VAL:HG21	1.67	0.77
1:B:1612:THR:HG22	1:B:1615:LEU:HD13	1.66	0.77
1:B:741:VAL:HG23	1:B:801:LEU:HD11	1.66	0.77
1:B:566:ARG:HE	1:B:621:GLN:HG3	1.48	0.76
4:D:93:VAL:HA	4:D:97:TRP:HB2	1.67	0.76
1:B:225:TYR:N	1:B:404:LYS:O	2.19	0.76
1:B:934:ARG:NH1	1:B:934:ARG:O	2.17	0.76
1:B:484:ILE:HG21	1:B:496:TYR:HB2	1.67	0.76
1:F:632:THR:HG23	1:F:664:GLU:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:883:THR:HG21	1:F:931:ARG:HG3	1.67	0.76
1:B:740:TYR:HA	1:B:749:LYS:HD3	1.67	0.76
1:B:1563:PHE:HA	1:B:1566:TYR:HD2	1.51	0.76
1:B:1167:GLN:OE1	1:B:1167:GLN:N	2.18	0.76
1:B:1183:HIS:CE1	1:B:1186:LEU:HB3	2.21	0.76
1:B:1010:ASN:OD1	1:B:1013:GLN:NE2	2.18	0.75
1:B:37:ILE:HD13	1:B:45:TYR:HB3	1.67	0.75
1:B:1597:MET:HG3	1:B:1633:VAL:HG21	1.67	0.75
2:G:90:PHE:HB3	2:G:94:ARG:HH22	1.51	0.75
1:B:1408:MET:HB2	1:B:1427:GLN:HB3	1.67	0.75
2:G:98:TYR:HE1	2:G:149:ILE:HD13	1.51	0.75
1:B:1545:HIS:O	1:B:1548:SER:OG	2.03	0.75
3:A:677:MET:O	3:A:683:ARG:NH2	2.16	0.75
1:B:434:PRO:O	1:B:708:LYS:NZ	2.17	0.75
1:B:36:HIS:N	1:B:48:TYR:O	2.19	0.75
1:B:181:ILE:HG22	1:B:185:LYS:HZ1	1.52	0.75
1:B:1010:ASN:O	1:B:1013:GLN:NE2	2.18	0.75
1:B:1620:GLU:OE2	1:B:1621:ARG:NH1	2.20	0.75
3:A:561:CYS:HB3	3:A:574:PHE:HB3	1.68	0.75
1:B:864:VAL:HG21	1:B:909:ILE:HG22	1.68	0.75
2:G:7:VAL:HA	2:G:56:TRP:HB2	1.69	0.74
1:F:165:VAL:HG23	1:F:175:PRO:HD3	1.68	0.74
1:B:1117:GLU:OE1	1:B:1119:GLU:N	2.20	0.74
1:F:1159:VAL:O	1:F:1208:ARG:NH1	2.20	0.74
1:F:1390:ARG:NH2	2:G:23:TYR:O	2.20	0.74
1:B:467:GLU:HB2	1:B:500:VAL:HG22	1.68	0.74
1:B:1561:GLY:O	1:B:1565:ASN:ND2	2.18	0.74
1:F:1219:ASN:OD1	1:F:1401:GLN:NE2	2.21	0.74
1:F:1248:ARG:NH1	1:F:1249:ASP:OD1	2.19	0.74
1:B:930:GLU:O	1:B:935:ARG:NH2	2.21	0.74
3:A:582:ASN:HB3	3:A:584:LYS:HG2	1.69	0.74
1:F:150:ALA:O	1:F:197:LYS:NZ	2.20	0.74
1:F:1525:THR:HA	1:F:1528:ARG:HH11	1.52	0.74
4:D:78:PHE:HE2	4:D:105:CYS:HB2	1.53	0.74
1:B:1315:GLU:OE1	1:B:1315:GLU:N	2.16	0.74
1:B:1463:ARG:HD3	1:B:1486:ARG:HD2	1.68	0.74
1:B:79:THR:HG22	1:B:85:LEU:HB2	1.69	0.74
1:F:145:LYS:HD2	1:F:169:ASN:H	1.53	0.74
3:E:530:SER:HB2	3:E:533:ILE:HD13	1.70	0.74
1:B:154:HIS:HB2	1:B:197:LYS:HZ3	1.53	0.74
1:B:1111:GLU:O	1:B:1163:ARG:NH2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:95:LEU:HD23	1:F:98:TRP:HD1	1.52	0.74
4:D:120:ARG:NH1	4:D:137:ILE:O	2.21	0.74
3:A:694:ILE:HA	3:A:697:ARG:HG2	1.69	0.73
1:B:875:ARG:NH1	1:B:920:ALA:O	2.20	0.73
4:D:51:VAL:HG11	4:D:173:VAL:HG11	1.70	0.73
1:B:1368:TYR:O	1:B:1425:TYR:N	2.17	0.73
1:F:5:ILE:H	1:F:40:MET:H	1.37	0.73
3:E:531:ARG:NH2	3:E:708:ASP:OD2	2.21	0.73
3:A:584:LYS:O	3:A:607:LYS:NZ	2.22	0.73
1:F:96:ARG:HH22	1:F:1067:ALA:HB2	1.54	0.73
1:F:1362:TYR:HE2	1:F:1459:VAL:HG21	1.53	0.73
1:B:95:LEU:HA	1:B:98:TRP:HD1	1.53	0.73
1:B:228:PHE:HE2	1:B:399:LEU:HB2	1.54	0.73
1:B:1275:ASP:O	1:B:1292:THR:OG1	2.07	0.73
1:F:705:GLY:O	1:F:710:GLN:NE2	2.19	0.73
1:F:961:LEU:HA	1:F:964:MET:HB3	1.69	0.73
1:B:79:THR:HG21	1:B:83:GLY:H	1.53	0.72
1:B:1063:THR:HA	1:B:1069:ARG:HH11	1.53	0.72
1:B:1633:VAL:HA	1:B:1637:TYR:HB2	1.70	0.72
1:F:33:ASP:HA	1:F:51:GLN:HE22	1.54	0.72
1:F:1156:ASP:OD2	1:F:1242:ARG:NH2	2.22	0.72
3:A:86:GLN:O	3:A:89:HIS:ND1	2.22	0.72
1:F:1185:TYR:O	1:F:1188:SER:OG	2.07	0.72
1:F:102:TRP:HB2	1:F:114:PHE:HE1	1.53	0.72
1:F:1063:THR:HA	1:F:1069:ARG:HH11	1.54	0.72
1:F:72:GLU:HA	1:F:89:GLN:HE22	1.54	0.72
1:B:86:PRO:HA	1:B:89:GLN:HE21	1.53	0.72
1:B:140:GLU:N	1:B:140:GLU:OE1	2.21	0.72
1:B:474:ASP:O	1:B:526:HIS:ND1	2.23	0.72
1:B:498:SER:HB2	1:B:509:TRP:HE1	1.54	0.72
1:B:900:GLU:O	1:B:903:SER:OG	2.08	0.72
1:B:944:ASN:O	1:B:946:GLN:NE2	2.22	0.72
1:B:979:ARG:NH2	1:B:1031:PHE:O	2.23	0.72
1:B:1367:TYR:HH	1:B:1383:TYR:HH	1.36	0.72
1:F:60:PRO:HB3	3:E:714:PRO:HD2	1.72	0.72
1:F:1248:ARG:HH11	1:F:1252:ARG:HH12	1.37	0.72
1:B:110:LYS:HZ2	1:B:113:LEU:HB2	1.55	0.72
2:G:9:VAL:HG22	2:G:78:PHE:HZ	1.54	0.72
1:F:871:GLN:HB2	1:F:918:VAL:HG12	1.72	0.72
1:F:1359:GLN:NE2	1:F:1360:PRO:O	2.23	0.72
2:G:90:PHE:HB3	2:G:94:ARG:NH2	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:134:GLU:OE1	3:A:177:SER:OG	2.08	0.72
3:A:328:ARG:HE	3:A:329:ARG:HH21	1.37	0.72
1:F:59:PHE:HD2	1:F:64:ILE:HG12	1.54	0.72
1:B:154:HIS:HA	1:B:157:ARG:HE	1.55	0.72
1:B:446:ILE:HB	1:B:515:VAL:HB	1.71	0.72
1:B:1372:PHE:O	1:B:1377:ARG:NH2	2.23	0.72
3:A:619:GLY:HA3	3:A:638:LEU:HD12	1.71	0.72
2:G:100:GLU:O	2:G:104:HIS:ND1	2.23	0.71
1:B:890:LEU:HD22	1:B:935:ARG:HG3	1.72	0.71
2:C:130:LYS:HE3	2:C:136:PRO:HD3	1.72	0.71
1:F:242:PHE:HB3	1:F:257:ASN:HB3	1.72	0.71
1:B:150:ALA:O	1:B:197:LYS:NZ	2.24	0.71
1:F:761:LYS:HG3	1:F:765:ARG:HH21	1.55	0.71
1:F:1166:GLU:HA	1:F:1169:LYS:HE3	1.72	0.71
1:F:1277:PRO:HG3	1:F:1292:THR:HA	1.71	0.71
1:B:1200:LEU:HD23	1:B:1230:PHE:HE2	1.55	0.71
1:F:239:ALA:HB3	1:F:262:TRP:HB3	1.72	0.71
1:F:532:ARG:HA	1:F:546:ALA:HA	1.71	0.71
1:F:1545:HIS:HD2	2:G:5:LYS:HE3	1.54	0.71
1:B:555:MET:HA	1:B:561:THR:HA	1.73	0.71
3:A:216:TYR:HE1	3:A:250:LEU:HA	1.54	0.71
3:A:235:SER:O	3:A:284:ARG:NH1	2.23	0.71
1:B:972:TYR:HA	1:B:975:THR:HB	1.70	0.71
1:F:940:VAL:HA	1:F:943:MET:HE2	1.73	0.71
1:F:1623:SER:HB3	1:F:1627:ARG:HH22	1.55	0.71
4:D:19:LEU:HD21	4:D:168:VAL:HG11	1.72	0.71
3:A:509:LEU:HA	3:A:514:ILE:HD11	1.71	0.71
1:B:1155:LEU:HD21	1:B:1201:LEU:HD21	1.73	0.71
1:F:472:VAL:HB	1:F:483:ALA:HB1	1.72	0.71
1:F:1081:LYS:HD2	1:F:1120:LEU:HD23	1.71	0.71
2:G:7:VAL:HG23	2:G:75:THR:HG21	1.73	0.71
1:B:237:GLU:OE2	1:B:305:HIS:N	2.23	0.71
1:B:871:GLN:HG2	1:B:875:ARG:HD3	1.73	0.71
1:B:563:GLN:O	1:B:567:HIS:NE2	2.23	0.70
1:B:730:TYR:HB3	1:B:770:SER:HB3	1.71	0.70
1:F:495:GLU:O	1:F:497:LYS:NZ	2.23	0.70
1:B:843:PHE:O	1:B:846:SER:OG	2.09	0.70
1:B:1622:LEU:O	1:B:1626:PHE:HB2	1.91	0.70
2:C:9:VAL:HG22	2:C:78:PHE:HZ	1.53	0.70
3:A:564:LYS:HG3	3:A:575:TRP:NE1	2.06	0.70
1:B:638:LEU:HD13	1:B:641:LEU:HD12	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1370:GLN:OE1	1:B:1377:ARG:NH1	2.25	0.70
1:F:237:GLU:OE2	1:F:305:HIS:N	2.24	0.70
3:A:529:GLN:HG3	3:A:534:LEU:HD11	1.74	0.70
1:B:2:ALA:H	3:A:717:PRO:HG2	1.55	0.70
1:B:138:LYS:HA	1:B:141:LEU:HD13	1.73	0.70
1:B:1525:THR:HA	1:B:1528:ARG:HH11	1.56	0.70
4:D:4:ILE:HD12	4:D:173:VAL:HG13	1.74	0.70
1:B:1307:TYR:HD1	1:B:1310:LYS:HZ1	1.37	0.70
1:F:904:GLN:O	1:F:908:ASN:ND2	2.25	0.70
3:E:561:CYS:HB3	3:E:574:PHE:HA	1.74	0.70
1:B:961:LEU:O	1:B:1019:ARG:NH1	2.25	0.70
1:F:1275:ASP:O	1:F:1292:THR:OG1	2.08	0.70
2:G:153:LYS:NZ	2:G:154:TYR:O	2.25	0.70
1:B:318:LEU:HD22	1:B:320:ARG:HH22	1.56	0.70
1:B:792:ARG:NE	1:B:835:GLU:OE1	2.19	0.70
1:B:871:GLN:HB2	1:B:918:VAL:HG12	1.74	0.70
1:F:745:ASP:HB3	1:F:804:ARG:HH22	1.56	0.70
1:F:870:ARG:NH1	1:F:872:SER:OG	2.24	0.70
1:B:1062:GLU:HB3	1:B:1069:ARG:HA	1.74	0.69
1:B:789:ASN:OD1	1:B:792:ARG:NH1	2.25	0.69
2:C:45:MET:HA	2:C:50:PRO:HA	1.74	0.69
1:F:1536:HIS:HA	1:F:1542:LEU:HD13	1.73	0.69
1:B:1152:ILE:HD12	1:B:1200:LEU:HD11	1.73	0.69
3:A:398:ILE:O	3:A:402:ASN:ND2	2.26	0.69
1:B:1356:MET:N	1:B:1356:MET:SD	2.65	0.69
1:F:1349:TYR:HA	1:F:1352:ILE:HD12	1.75	0.69
1:B:1007:MET:N	1:B:1007:MET:SD	2.61	0.69
1:B:1486:ARG:NH2	1:B:1510:GLU:OE1	2.26	0.69
1:F:1114:LEU:HD22	1:F:1163:ARG:HB3	1.75	0.69
1:B:496:TYR:OH	1:B:511:GLU:OE2	2.10	0.69
1:B:1342:LEU:HD11	1:F:1346:ALA:HB2	1.75	0.69
1:B:795:PHE:CE2	1:B:843:PHE:HB2	2.28	0.69
1:F:581:ASP:HB3	1:F:584:PHE:HB3	1.74	0.69
1:F:1335:TYR:HA	1:F:1338:LEU:HD23	1.73	0.69
1:B:1360:PRO:HG2	1:B:1362:TYR:HE1	1.58	0.69
1:F:70:THR:HG22	1:F:71:VAL:H	1.57	0.69
1:F:93:SER:O	1:F:96:ARG:HD3	1.92	0.69
1:F:852:LEU:HB2	1:F:856:LYS:HE2	1.75	0.69
1:F:1469:ARG:HA	1:F:1481:THR:HB	1.73	0.69
3:A:51:LEU:O	3:A:61:ILE:N	2.22	0.69
1:B:187:HIS:HD1	1:B:1006:TRP:HD1	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:646:ASN:OD1	1:B:649:ASN:ND2	2.26	0.69
1:B:802:MET:SD	1:B:846:SER:OG	2.50	0.69
1:F:35:VAL:HA	1:F:49:THR:HA	1.75	0.69
1:F:1532:CYS:O	1:F:1535:GLN:NE2	2.24	0.69
3:A:81:PRO:HB3	3:A:116:PHE:HA	1.75	0.69
1:B:1056:HIS:ND1	1:B:1057:GLU:OE2	2.26	0.69
1:B:1231:TYR:HE2	1:B:1243:TYR:HE2	1.41	0.69
1:F:454:GLU:HA	1:F:506:GLN:HG2	1.74	0.69
1:F:1218:GLU:N	1:F:1218:GLU:OE1	2.25	0.69
1:B:913:LEU:HD23	1:B:925:ILE:HG22	1.73	0.68
1:F:110:LYS:HZ3	1:F:113:LEU:HB2	1.58	0.68
1:F:1121:ARG:HH11	1:F:1171:LEU:HD12	1.57	0.68
1:F:1438:PRO:HB2	1:F:1441:TYR:HB2	1.74	0.68
1:B:72:GLU:OE1	1:B:74:LEU:N	2.26	0.68
1:F:95:LEU:HA	1:F:98:TRP:CD1	2.29	0.68
3:A:138:GLU:OE2	3:A:139:ARG:NH1	2.26	0.68
4:D:32:TYR:HA	6:D:202:GTP:H5"	1.75	0.68
1:B:730:TYR:HB2	1:B:767:ILE:HG23	1.76	0.68
1:B:879:LEU:HB2	1:B:924:HIS:HE1	1.58	0.68
1:B:1584:GLU:HG3	1:B:1585:LYS:HD2	1.76	0.68
1:F:79:THR:HG22	1:F:85:LEU:HB2	1.75	0.68
1:F:376:ASN:ND2	1:F:502:TYR:O	2.24	0.68
1:F:678:ASN:HA	1:F:681:MET:HG2	1.76	0.68
1:F:789:ASN:OD1	1:F:792:ARG:NH1	2.26	0.68
1:F:824:ILE:HB	1:F:836:LEU:HD21	1.75	0.68
1:B:1238:ASP:HA	1:B:1241:ILE:HD12	1.75	0.68
3:A:315:PRO:O	3:A:320:GLN:NE2	2.25	0.68
4:D:11:ASP:OD1	4:D:97:TRP:NE1	2.17	0.68
1:F:1328:TYR:HA	1:F:1332:VAL:HG12	1.75	0.68
1:F:1365:VAL:O	1:F:1381:PHE:N	2.18	0.68
3:A:547:LEU:O	3:A:550:GLN:NE2	2.27	0.68
1:B:106:TYR:O	3:A:555:ARG:NH2	2.27	0.68
1:B:70:THR:HG22	1:B:71:VAL:H	1.59	0.68
1:F:565:GLY:N	1:F:624:THR:O	2.25	0.68
1:F:979:ARG:NH2	1:F:1031:PHE:O	2.27	0.68
3:A:58:ASN:OD1	3:A:76:ARG:NH2	2.27	0.68
1:B:344:HIS:N	1:B:401:VAL:O	2.27	0.68
1:B:669:LEU:O	1:B:672:THR:OG1	2.11	0.68
1:F:1097:HIS:HA	1:F:1100:LYS:HE2	1.75	0.68
2:G:4:ILE:H	2:G:53:LEU:HA	1.59	0.68
2:G:11:ASP:O	2:G:16:LYS:NZ	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:266:LEU:HA	3:A:271:LEU:HD13	1.76	0.68
1:B:876:GLU:N	1:B:876:GLU:OE1	2.27	0.68
3:E:608:LEU:HD11	3:E:613:ILE:HD11	1.76	0.68
3:A:526:GLU:O	3:A:530:SER:N	2.23	0.68
1:B:25:VAL:HG21	1:B:56:LYS:HG3	1.75	0.67
1:B:1111:GLU:N	1:B:1111:GLU:OE1	2.25	0.67
1:F:247:ASP:HB3	1:F:250:GLN:HB2	1.76	0.67
3:A:113:ASP:HB3	3:A:116:PHE:HB3	1.75	0.67
3:A:530:SER:HB2	3:A:533:ILE:HD13	1.76	0.67
1:B:719:TYR:CD1	1:B:723:HIS:HB2	2.30	0.67
1:F:241:LEU:HB2	1:F:260:ILE:HB	1.75	0.67
1:F:332:ILE:HD13	1:F:403:LEU:HD13	1.76	0.67
1:F:1062:GLU:HB3	1:F:1069:ARG:HA	1.76	0.67
1:B:34:THR:OG1	3:A:700:ASP:OD2	2.12	0.67
1:B:1218:GLU:OE1	1:B:1218:GLU:N	2.27	0.67
1:B:1390:ARG:NH2	2:C:23:TYR:O	2.28	0.67
1:F:4:TRP:O	3:E:724:TYR:N	2.28	0.67
3:E:557:VAL:O	3:E:578:ARG:NH1	2.28	0.67
3:A:87:GLN:O	3:A:91:ARG:HG2	1.94	0.67
1:B:85:LEU:HA	1:B:88:VAL:HG12	1.75	0.67
1:B:91:LEU:O	1:B:95:LEU:HG	1.94	0.67
1:B:129:SER:HA	1:B:132:LEU:HD12	1.76	0.67
1:B:1065:SER:OG	1:B:1068:LYS:N	2.28	0.67
1:B:1374:SER:O	1:B:1379:LYS:NZ	2.27	0.67
3:A:108:ALA:O	3:A:112:ARG:NH1	2.27	0.67
1:B:73:ASP:HA	1:B:78:GLU:HB2	1.77	0.67
2:C:170:ASP:HB3	2:C:174:ARG:HH21	1.60	0.67
1:F:306:MET:H	1:F:314:HIS:HB3	1.59	0.67
1:F:519:ILE:HG21	1:F:630:LYS:HB3	1.77	0.67
3:E:551:GLN:HG2	3:E:552:ARG:HH21	1.60	0.67
3:E:692:MET:O	3:E:696:LEU:N	2.28	0.67
1:B:302:ARG:HG3	1:B:320:ARG:HB2	1.77	0.67
1:B:1180:CYS:O	1:B:1187:SER:OG	2.10	0.67
1:F:789:ASN:HA	1:F:792:ARG:HD2	1.75	0.67
1:F:1366:GLY:HA2	1:F:1380:ILE:HA	1.76	0.67
1:F:1631:GLU:OE1	1:F:1635:LYS:NZ	2.28	0.67
4:D:39:ASN:ND2	4:D:54:ASN:OD1	2.20	0.67
4:D:124:ASP:OD1	4:D:127:ARG:NH1	2.27	0.67
1:B:1532:CYS:O	1:B:1535:GLN:NE2	2.26	0.67
3:A:665:TRP:O	3:A:669:LEU:HG	1.94	0.67
1:B:965:ASP:OD1	1:B:966:ASP:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1117:GLU:OE2	1:B:1121:ARG:N	2.25	0.67
1:F:1148:GLU:O	1:F:1152:ILE:HG12	1.94	0.67
1:B:31:ILE:HG21	3:A:698:LEU:HA	1.77	0.67
1:B:114:PHE:O	1:B:117:LEU:HB3	1.95	0.67
1:F:1490:THR:OG1	1:F:1506:GLN:HB3	1.95	0.67
3:A:83:GLN:OE1	3:A:86:GLN:NE2	2.28	0.67
1:B:590:GLY:N	1:B:594:GLU:OE2	2.28	0.66
1:B:1196:LEU:O	1:B:1199:SER:OG	2.13	0.66
1:F:1506:GLN:NE2	1:F:1508:SER:OG	2.22	0.66
3:A:13:GLU:O	3:A:77:LEU:N	2.27	0.66
1:B:844:ILE:HB	1:B:881:LEU:HD11	1.76	0.66
1:B:1259:GLU:OE1	1:B:1259:GLU:N	2.29	0.66
1:F:857:LEU:HA	1:F:860:MET:SD	2.35	0.66
1:F:930:GLU:O	1:F:935:ARG:NH2	2.28	0.66
3:A:352:TYR:O	3:A:356:TYR:HB2	1.95	0.66
1:B:1051:VAL:HG21	1:B:1108:PRO:HB3	1.77	0.66
1:F:102:TRP:HB2	1:F:114:PHE:CE1	2.31	0.66
1:F:1362:TYR:HD2	1:F:1462:PHE:HE2	1.43	0.66
2:G:116:LYS:HB3	2:G:119:LEU:HB2	1.77	0.66
3:A:132:MET:HG3	3:A:133:VAL:HG13	1.76	0.66
3:A:579:LEU:HD11	3:A:583:HIS:HA	1.76	0.66
1:B:44:TRP:CD1	3:A:716:GLU:HG3	2.31	0.66
1:F:1451:LEU:HB3	1:F:1455:ARG:HH22	1.61	0.66
1:F:465:ASN:ND2	1:F:534:ARG:O	2.28	0.66
1:F:772:VAL:HA	1:F:775:LEU:HG	1.78	0.66
1:F:1418:ILE:HA	1:F:1421:SER:HB3	1.77	0.66
1:F:1484:ILE:HB	1:F:1512:ILE:HB	1.78	0.66
3:A:333:ASP:HA	3:A:336:SER:HB2	1.76	0.66
4:D:10:GLY:O	4:D:16:LYS:NZ	2.25	0.66
1:F:1167:GLN:OE1	1:F:1167:GLN:N	2.25	0.66
3:A:640:LEU:HB3	3:A:656:ALA:H	1.61	0.66
4:D:13:ALA:HA	6:D:202:GTP:H5'	1.76	0.66
1:B:860:MET:HA	1:B:863:ILE:HD13	1.78	0.66
2:C:11:ASP:OD1	2:C:16:LYS:NZ	2.29	0.66
3:A:308:ARG:NE	3:A:382:ASP:OD2	2.28	0.66
3:A:614:LYS:HB2	3:A:645:LEU:HB2	1.78	0.66
1:B:372:VAL:O	1:B:376:ASN:ND2	2.29	0.66
1:B:923:VAL:O	1:B:927:LEU:HG	1.96	0.66
1:B:1015:ARG:HA	1:B:1018:LEU:HD12	1.77	0.66
1:F:1128:PHE:HA	1:F:1131:MET:SD	2.36	0.66
1:F:1590:LYS:HB3	1:F:1639:VAL:HG12	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:692:MET:HA	3:E:695:LYS:HE3	1.77	0.66
1:B:771:ARG:HH12	1:B:784:GLY:HA2	1.60	0.66
1:F:1607:HIS:NE2	1:F:1619:HIS:HB2	2.11	0.66
2:G:64:TYR:HB2	2:G:68:ARG:HH21	1.59	0.66
3:A:377:GLY:H	3:A:418:ILE:HD11	1.61	0.66
3:A:441:PHE:O	3:A:495:LYS:NZ	2.23	0.66
1:B:259:LEU:N	1:B:488:ALA:O	2.24	0.65
1:B:939:THR:O	1:B:943:MET:N	2.21	0.65
1:B:970:SER:O	1:B:974:SER:OG	2.14	0.65
1:B:1470:LYS:H	1:B:1481:THR:HB	1.60	0.65
1:F:1391:ARG:HH22	2:G:29:PRO:HD3	1.59	0.65
3:A:245:ALA:HB2	3:A:293:GLN:HE22	1.60	0.65
1:B:154:HIS:O	1:B:157:ARG:HG2	1.96	0.65
1:B:1231:TYR:O	1:B:1235:LYS:N	2.30	0.65
1:B:1469:ARG:HD2	1:B:1481:THR:OG1	1.95	0.65
1:F:115:ARG:O	1:F:119:GLN:NE2	2.29	0.65
1:F:1149:ASN:HA	1:F:1236:ARG:HH22	1.59	0.65
1:F:1307:TYR:O	1:F:1311:GLY:N	2.26	0.65
3:E:547:LEU:O	3:E:550:GLN:NE2	2.28	0.65
1:B:1169:LYS:HA	1:B:1172:LEU:HD12	1.77	0.65
1:F:485:HIS:HA	1:F:492:GLY:HA3	1.79	0.65
1:F:1568:LYS:O	1:F:1572:THR:OG1	2.13	0.65
3:A:141:GLN:HA	3:A:144:GLN:HG3	1.78	0.65
2:G:80:ILE:HD11	2:G:97:TRP:HB3	1.79	0.65
2:G:149:ILE:HG23	2:G:151:ALA:H	1.60	0.65
3:E:580:SER:O	3:E:583:HIS:ND1	2.30	0.65
4:D:11:ASP:O	4:D:16:LYS:NZ	2.28	0.65
1:B:330:THR:O	1:B:334:HIS:ND1	2.29	0.65
1:B:844:ILE:HG21	1:B:881:LEU:HD21	1.79	0.65
1:B:1024:PHE:HA	1:B:1027:VAL:HG12	1.78	0.65
1:B:1120:LEU:O	1:B:1124:THR:OG1	2.09	0.65
1:F:297:VAL:HG13	1:F:326:VAL:HG22	1.79	0.65
2:G:7:VAL:HB	2:G:78:PHE:HD2	1.60	0.65
3:A:708:ASP:OD1	3:A:709:ALA:N	2.29	0.65
1:B:1416:GLU:HA	1:B:1419:LYS:HG2	1.77	0.65
1:F:463:PRO:HD2	1:F:503:GLN:HB3	1.79	0.65
1:B:517:ILE:HD12	1:B:522:VAL:HG23	1.77	0.65
3:E:603:SER:N	3:E:606:ASP:OD1	2.29	0.65
3:A:256:ASP:HA	3:A:259:ARG:HD3	1.79	0.65
3:A:358:LYS:HA	3:A:406:GLU:HA	1.78	0.65
1:B:446:ILE:HG12	1:B:626:ILE:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:789:ASN:HB3	1:B:793:GLN:NE2	2.10	0.65
1:F:555:MET:HA	1:F:561:THR:HA	1.79	0.65
1:F:1568:LYS:O	1:F:1574:LYS:NZ	2.30	0.65
3:E:588:TYR:N	3:E:603:SER:OG	2.29	0.65
3:E:591:LEU:HD21	3:E:604:LEU:H	1.62	0.65
1:B:44:TRP:CZ2	1:B:60:PRO:HG3	2.32	0.65
1:B:414:GLN:O	1:B:423:ARG:NH2	2.30	0.65
1:B:1525:THR:HA	1:B:1528:ARG:HD3	1.79	0.65
1:F:98:TRP:HA	1:F:101:ILE:HG22	1.78	0.65
1:F:99:ALA:HA	1:F:102:TRP:CD1	2.32	0.65
1:F:590:GLY:N	1:F:594:GLU:OE2	2.27	0.65
3:A:608:LEU:HD11	3:A:613:ILE:HD11	1.79	0.65
1:B:31:ILE:HG22	3:A:701:LEU:HD23	1.79	0.65
1:F:1534:GLN:HB3	1:F:1538:TRP:CH2	2.31	0.65
2:G:100:GLU:HB2	2:G:104:HIS:HE1	1.62	0.65
1:B:1209:THR:O	1:B:1213:GLN:CB	2.44	0.64
1:B:1391:ARG:NH1	1:B:1428:CYS:O	2.30	0.64
1:F:166:ARG:HD3	1:F:173:LEU:HB2	1.79	0.64
2:G:49:LYS:NZ	2:G:50:PRO:O	2.30	0.64
1:B:74:LEU:HD22	1:B:83:GLY:HA2	1.79	0.64
2:C:5:LYS:HE2	2:C:56:TRP:HZ2	1.62	0.64
1:F:25:VAL:HG23	1:F:57:GLY:HA2	1.78	0.64
1:F:757:LEU:HA	1:F:760:LEU:HG	1.79	0.64
4:D:78:PHE:HB2	4:D:110:ILE:HG12	1.78	0.64
1:B:1275:ASP:OD2	1:B:1292:THR:OG1	2.15	0.64
1:B:1335:TYR:HA	1:B:1338:LEU:HD23	1.77	0.64
1:B:1549:MET:O	2:C:39:ASN:ND2	2.30	0.64
1:F:1225:VAL:HG21	1:F:1499:LEU:HD21	1.79	0.64
1:F:1452:ASN:OD1	1:F:1453:TYR:N	2.30	0.64
3:A:216:TYR:CE1	3:A:250:LEU:HA	2.32	0.64
3:A:566:ASN:OD1	3:A:633:GLN:NE2	2.31	0.64
3:A:616:VAL:HB	3:A:644:ILE:HG12	1.79	0.64
1:B:1183:HIS:HE1	1:B:1186:LEU:HB3	1.62	0.64
1:F:1536:HIS:CG	1:F:1542:LEU:HD22	2.32	0.64
3:E:564:LYS:HE3	3:E:590:ASP:HA	1.78	0.64
3:A:564:LYS:HB2	3:A:567:ALA:HB2	1.79	0.64
1:F:181:ILE:HA	1:F:184:PHE:HB3	1.80	0.64
1:F:1117:GLU:OE1	1:F:1119:GLU:N	2.30	0.64
3:E:719:ASN:ND2	3:E:721:ASP:OD2	2.31	0.64
1:B:789:ASN:HA	1:B:792:ARG:HD2	1.79	0.64
1:F:187:HIS:HD1	1:F:1006:TRP:HD1	1.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:979:ARG:O	1:F:982:ILE:HG22	1.98	0.64
1:B:566:ARG:NH2	1:B:568:ASP:OD1	2.30	0.64
2:C:77:VAL:HG12	2:C:109:PRO:HG2	1.78	0.64
1:F:1129:PHE:HZ	1:F:1183:HIS:HB3	1.63	0.64
1:F:1618:LEU:HD22	1:F:1621:ARG:HH21	1.62	0.64
2:G:23:TYR:HB2	2:G:165:LEU:HD21	1.80	0.64
3:A:486:GLU:O	3:A:490:ARG:HG2	1.98	0.64
1:B:1166:GLU:O	1:B:1169:LYS:HG2	1.97	0.64
2:C:98:TYR:HE1	2:C:149:ILE:HD13	1.61	0.64
2:C:116:LYS:HD3	2:C:119:LEU:HD12	1.80	0.64
1:F:1241:ILE:HA	1:F:1244:LEU:HD12	1.80	0.64
1:F:1370:GLN:OE1	1:F:1377:ARG:NH1	2.31	0.64
3:A:38:CYS:HB3	3:A:43:LEU:HB2	1.78	0.64
1:B:225:TYR:OH	1:B:227:ASN:ND2	2.27	0.64
1:B:811:LYS:HD2	1:B:812:ILE:HG13	1.80	0.64
2:C:52:ASN:OD1	2:C:53:LEU:N	2.31	0.64
3:A:266:LEU:HG	3:A:271:LEU:HB2	1.78	0.64
3:A:401:GLU:O	3:A:405:ARG:NE	2.30	0.64
3:A:685:ASP:OD1	3:A:686:LEU:N	2.31	0.64
1:F:110:LYS:HD3	1:F:113:LEU:HD12	1.80	0.64
1:F:1438:PRO:HB3	1:F:1454:TYR:CE2	2.33	0.64
3:A:501:GLN:OE1	3:A:505:LYS:NZ	2.30	0.64
1:B:166:ARG:NH2	1:B:169:ASN:OD1	2.31	0.63
1:B:1555:VAL:HG21	1:B:1622:LEU:HD22	1.80	0.63
1:F:1211:ILE:HD13	1:F:1220:ARG:HG2	1.79	0.63
2:G:5:LYS:NZ	2:G:73:PRO:O	2.30	0.63
2:G:129:LEU:HB3	2:G:134:LEU:O	1.98	0.63
1:B:132:LEU:O	3:A:703:ASN:ND2	2.30	0.63
2:C:124:ASP:O	2:C:127:GLU:HG2	1.98	0.63
1:F:233:CYS:SG	1:F:234:ASN:N	2.71	0.63
1:B:11:LYS:HB2	1:B:70:THR:HA	1.80	0.63
1:B:19:TYR:HB2	1:B:59:PHE:HE1	1.63	0.63
1:B:468:VAL:N	1:B:498:SER:OG	2.31	0.63
1:B:853:VAL:O	1:B:857:LEU:HG	1.99	0.63
1:B:1627:ARG:HA	1:B:1630:LYS:HB2	1.80	0.63
1:F:187:HIS:ND1	1:F:1006:TRP:HD1	1.96	0.63
1:F:879:LEU:CG	1:F:931:ARG:HH22	2.11	0.63
1:F:1284:GLN:HG2	1:F:1286:ASP:H	1.63	0.63
3:A:26:GLN:OE1	3:A:66:ARG:NH1	2.30	0.63
1:F:102:TRP:HA	1:F:105:LEU:HG	1.81	0.63
3:A:21:LEU:HD13	4:D:37:PHE:CZ	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1028:LEU:HD12	1:B:1043:TRP:CZ2	2.34	0.63
1:B:1165:ASP:O	1:B:1168:TYR:HB3	1.99	0.63
1:F:1506:GLN:NE2	1:F:1507:ILE:O	2.31	0.63
1:B:153:ASP:HB2	1:B:194:ILE:HD11	1.79	0.63
1:B:1274:SER:HB2	1:B:1293:GLN:HE21	1.64	0.63
1:F:93:SER:HB2	1:F:96:ARG:NH1	2.14	0.63
1:F:226:VAL:HB	1:F:279:ALA:HB3	1.80	0.63
1:F:1061:LEU:HA	1:F:1064:PHE:CZ	2.34	0.63
1:F:1301:TYR:CE2	1:F:1320:LEU:HD12	2.31	0.63
2:G:174:ARG:HA	2:G:177:LEU:HB2	1.80	0.63
3:A:562:PHE:N	3:A:575:TRP:O	2.32	0.63
1:B:72:GLU:OE1	1:B:75:GLY:N	2.28	0.63
1:B:707:ILE:O	1:B:711:HIS:NE2	2.32	0.63
4:D:29:PRO:HB3	4:D:33:ILE:HD11	1.79	0.63
1:B:855:GLN:OE1	1:B:855:GLN:N	2.32	0.63
1:B:1181:ARG:NH1	1:B:1191:GLU:OE2	2.32	0.63
1:B:1628:GLU:O	1:B:1632:LYS:HG2	1.98	0.63
1:F:761:LYS:HE3	1:F:765:ARG:NE	2.14	0.63
1:F:1002:TYR:HB3	1:F:1006:TRP:HE3	1.64	0.63
3:E:578:ARG:NH2	3:E:598:GLU:OE1	2.32	0.63
3:A:205:LEU:HB3	3:A:223:ILE:HD11	1.79	0.63
1:B:73:ASP:O	1:B:79:THR:N	2.32	0.62
1:B:945:ARG:HE	1:B:946:GLN:H	1.47	0.62
1:F:95:LEU:HA	1:F:98:TRP:HD1	1.63	0.62
1:F:761:LYS:HE3	1:F:765:ARG:HE	1.63	0.62
1:F:930:GLU:HG2	1:F:972:TYR:HB3	1.80	0.62
3:E:529:GLN:HG3	3:E:534:LEU:HD11	1.80	0.62
3:A:13:GLU:N	3:A:75:LEU:O	2.25	0.62
3:A:268:GLN:HG3	3:A:269:LYS:HD2	1.80	0.62
1:B:1233:GLU:O	1:B:1235:LYS:NZ	2.31	0.62
1:B:1533:VAL:HG23	1:B:1606:ILE:HG13	1.81	0.62
2:C:65:ASP:HA	2:C:68:ARG:HE	1.63	0.62
1:F:460:LYS:HD2	1:F:464:LYS:HG2	1.82	0.62
1:B:11:LYS:HG3	1:B:70:THR:HG23	1.80	0.62
1:B:263:GLY:HA2	1:B:269:LYS:HG3	1.82	0.62
1:B:493:ILE:HD11	1:B:496:TYR:HD1	1.63	0.62
1:B:519:ILE:HG21	1:B:630:LYS:HB3	1.81	0.62
1:B:909:ILE:HG13	1:B:910:LEU:N	2.15	0.62
1:B:1060:GLN:OE1	1:B:1060:GLN:N	2.32	0.62
2:C:93:VAL:HA	2:C:97:TRP:HB2	1.81	0.62
1:F:1606:ILE:HG23	1:F:1610:LYS:HZ1	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:409:HIS:HA	3:A:473:THR:HA	1.81	0.62
1:B:16:ILE:HG21	3:A:707:PRO:HG2	1.81	0.62
1:B:92:THR:HA	1:B:95:LEU:HD12	1.80	0.62
1:B:719:TYR:HD1	1:B:723:HIS:HB2	1.63	0.62
1:F:166:ARG:HH21	1:F:169:ASN:HD21	1.48	0.62
1:F:855:GLN:OE1	1:F:855:GLN:N	2.29	0.62
3:E:685:ASP:OD1	3:E:686:LEU:N	2.33	0.62
1:B:330:THR:HG22	1:B:334:HIS:CE1	2.35	0.62
1:B:579:MET:HA	1:B:585:TYR:HB3	1.81	0.62
1:B:631:LEU:O	1:B:667:LYS:NZ	2.22	0.62
2:C:59:ALA:O	2:C:68:ARG:NH2	2.32	0.62
1:F:1091:TRP:CZ2	1:F:1098:LYS:HG2	2.35	0.62
3:A:466:THR:O	3:A:470:MET:N	2.33	0.62
4:D:17:THR:HG21	4:D:33:ILE:HG21	1.80	0.62
1:F:5:ILE:HB	1:F:40:MET:HB3	1.82	0.62
1:F:306:MET:SD	1:F:320:ARG:NH2	2.73	0.62
1:F:929:MET:SD	1:F:968:HIS:HB3	2.40	0.62
1:F:1367:TYR:N	1:F:1379:LYS:O	2.33	0.62
1:B:651:LYS:HB3	1:B:689:TYR:CE1	2.34	0.62
2:C:14:VAL:HG13	2:C:116:LYS:NZ	2.15	0.62
2:C:111:ILE:HG12	2:C:153:LYS:HB3	1.82	0.62
3:A:211:ASN:HB2	3:A:215:LEU:HD12	1.82	0.62
3:A:548:ILE:O	3:A:552:ARG:HG2	2.00	0.62
1:B:463:PRO:HD2	1:B:503:GLN:HB3	1.82	0.62
1:B:1216:SER:OG	1:B:1401:GLN:NE2	2.33	0.62
1:F:1149:ASN:OD1	1:F:1236:ARG:NH2	2.33	0.62
1:F:1543:SER:OG	1:F:1545:HIS:ND1	2.25	0.62
1:B:759:ALA:O	1:B:763:LEU:HG	2.00	0.62
1:B:816:ALA:O	1:B:820:LEU:HG	2.00	0.62
1:B:1536:HIS:CD2	1:B:1542:LEU:HD13	2.34	0.62
1:F:876:GLU:OE1	1:F:876:GLU:N	2.30	0.62
1:F:913:LEU:HD22	1:F:925:ILE:HG22	1.80	0.62
1:F:972:TYR:HA	1:F:975:THR:HB	1.82	0.62
2:G:17:THR:O	2:G:21:ILE:HG22	2.00	0.62
3:A:524:ASN:OD1	3:A:525:GLN:NE2	2.32	0.62
1:B:1305:ILE:HD11	1:B:1320:LEU:HB2	1.82	0.61
1:F:1196:LEU:O	1:F:1200:LEU:HG	2.00	0.61
3:A:225:ILE:HG21	3:A:265:ILE:HG21	1.80	0.61
3:A:320:GLN:HA	3:A:323:ILE:HG22	1.81	0.61
3:A:485:LYS:HG2	3:A:489:MET:HE2	1.82	0.61
1:B:1146:MET:HA	1:B:1149:ASN:HD22	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1032:PHE:HA	1:F:1036:ALA:HB3	1.81	0.61
1:F:1115:THR:O	1:F:1121:ARG:NH2	2.33	0.61
3:E:607:LYS:HG3	3:E:609:PRO:HD3	1.82	0.61
1:B:1133:GLN:OE1	1:B:1137:ASN:ND2	2.31	0.61
1:F:166:ARG:HB2	1:F:174:ASP:H	1.65	0.61
1:F:1381:PHE:HA	1:F:1503:GLU:HA	1.82	0.61
1:B:101:ILE:HG21	1:B:159:LEU:HD13	1.82	0.61
1:B:486:PRO:HA	1:B:513:VAL:HG12	1.81	0.61
1:B:527:ILE:N	1:B:552:VAL:O	2.30	0.61
1:B:1573:GLU:O	1:B:1577:GLN:NE2	2.33	0.61
1:B:1607:HIS:O	1:B:1611:LEU:N	2.33	0.61
2:G:69:PRO:HA	2:G:72:TYR:CD2	2.35	0.61
2:G:164:GLY:O	2:G:168:VAL:N	2.30	0.61
3:A:256:ASP:HA	3:A:259:ARG:HB2	1.82	0.61
3:A:564:LYS:HE3	3:A:590:ASP:HA	1.81	0.61
1:B:1467:PRO:HG3	2:C:33:ILE:HD13	1.83	0.61
1:B:1495:PHE:HE1	1:B:1502:PHE:HD2	1.47	0.61
1:F:773:LEU:HA	1:F:776:ARG:HG2	1.82	0.61
1:F:1487:THR:HA	1:F:1509:THR:HA	1.81	0.61
1:B:1367:TYR:O	1:B:1378:ASN:N	2.31	0.61
2:C:129:LEU:HB3	2:C:134:LEU:O	2.00	0.61
1:F:30:GLN:HB2	3:E:697:ARG:HH21	1.65	0.61
3:A:270:GLN:HG2	3:A:273:SER:HB3	1.81	0.61
3:A:644:ILE:H	3:A:652:LEU:HB2	1.64	0.61
4:D:171:GLU:HA	4:D:174:ARG:HG2	1.82	0.61
1:B:98:TRP:O	1:B:101:ILE:HG22	1.99	0.61
1:F:1131:MET:O	1:F:1135:GLU:HG3	2.00	0.61
1:B:882:LEU:HA	1:B:885:GLN:HE21	1.65	0.61
1:B:1590:LYS:HB3	1:B:1639:VAL:HG12	1.81	0.61
1:F:817:LEU:HD22	1:F:856:LYS:HD3	1.82	0.61
3:A:129:LEU:O	3:A:133:VAL:HG22	2.01	0.61
1:B:102:TRP:HA	1:B:105:LEU:HG	1.82	0.61
1:B:501:TYR:CG	1:B:507:PRO:HB3	2.35	0.61
1:B:1156:ASP:OD1	1:B:1243:TYR:OH	2.18	0.61
1:B:1277:PRO:HG3	1:B:1292:THR:HA	1.83	0.61
2:C:84:LEU:HD11	2:C:156:GLU:HG2	1.82	0.61
1:F:1390:ARG:HH11	2:G:44:VAL:HG21	1.66	0.61
1:F:1466:ARG:NH1	2:G:31:GLU:OE1	2.34	0.61
2:G:146:ALA:O	2:G:150:GLY:N	2.33	0.61
3:E:670:ASN:O	3:E:674:GLY:N	2.34	0.61
4:D:159:ALA:N	6:D:202:GTP:O6	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1196:LEU:O	1:F:1199:SER:OG	2.15	0.61
3:A:719:ASN:ND2	3:A:721:ASP:OD2	2.34	0.61
1:B:241:LEU:HB2	1:B:260:ILE:HB	1.83	0.60
1:B:569:LEU:O	1:B:620:PHE:N	2.33	0.60
1:F:739:PHE:O	1:F:749:LYS:NZ	2.33	0.60
1:F:1626:PHE:HD2	1:F:1627:ARG:HD3	1.66	0.60
3:A:237:GLN:O	3:A:241:THR:HG23	2.01	0.60
1:F:147:LYS:O	1:F:151:LYS:HG2	2.02	0.60
1:F:330:THR:HA	1:F:333:ILE:HG12	1.81	0.60
1:F:638:LEU:O	1:F:642:ASN:ND2	2.33	0.60
1:F:1536:HIS:O	1:F:1540:ARG:NH2	2.33	0.60
3:A:544:ILE:O	3:A:548:ILE:HG12	2.00	0.60
1:B:23:GLN:HG2	1:B:58:ILE:HB	1.83	0.60
1:B:246:TYR:CZ	1:B:383:LEU:HD21	2.35	0.60
1:B:247:ASP:HB2	1:B:254:ILE:HD11	1.82	0.60
1:B:1216:SER:OG	1:B:1219:ASN:OD1	2.18	0.60
1:B:1478:GLU:N	1:B:1478:GLU:OE2	2.32	0.60
1:B:1630:LYS:O	1:B:1634:GLU:HG2	2.01	0.60
1:F:44:TRP:CZ2	1:F:60:PRO:HG3	2.37	0.60
1:F:761:LYS:NZ	1:F:825:ASN:HD21	1.98	0.60
1:F:769:GLN:OE1	1:F:776:ARG:NH2	2.34	0.60
1:F:1164:GLY:HA3	1:F:1168:TYR:HD1	1.64	0.60
3:A:451:SER:HA	3:A:454:GLU:HG3	1.83	0.60
1:B:471:SER:HB2	1:B:479:LEU:HD13	1.83	0.60
1:B:528:ARG:HA	1:B:551:PHE:HA	1.83	0.60
1:B:1391:ARG:NH2	2:C:28:PHE:HA	2.16	0.60
1:F:1111:GLU:O	1:F:1163:ARG:NH2	2.35	0.60
1:B:751:GLU:OE1	1:B:751:GLU:N	2.21	0.60
1:B:806:LEU:HD12	1:B:813:LYS:HD3	1.84	0.60
1:B:1557:PRO:HB2	1:B:1561:GLY:HA2	1.84	0.60
1:F:302:ARG:HG2	1:F:322:PHE:HB2	1.82	0.60
1:F:831:PHE:HE2	1:F:835:GLU:HB3	1.65	0.60
1:F:1512:ILE:HG23	1:F:1516:GLU:HB2	1.84	0.60
3:A:280:ILE:HG21	3:A:443:PRO:HB3	1.84	0.60
1:B:761:LYS:HG3	1:B:765:ARG:HE	1.65	0.60
1:B:1468:PHE:HB3	1:B:1483:TRP:O	2.02	0.60
1:F:662:GLY:HA2	1:F:665:ILE:HD12	1.83	0.60
1:F:938:ARG:HA	1:F:941:ILE:HD12	1.83	0.60
1:F:1436:SER:HB3	1:F:1454:TYR:HB3	1.82	0.60
2:G:87:PRO:HG2	2:G:135:THR:H	1.67	0.60
3:A:387:PHE:CE1	3:A:457:CYS:HB3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1463:ARG:HA	1:B:1487:THR:O	2.02	0.60
1:F:95:LEU:HD23	1:F:98:TRP:CD1	2.34	0.60
1:F:140:GLU:OE1	1:F:140:GLU:N	2.35	0.60
1:F:166:ARG:HB3	1:F:171:ASN:HA	1.84	0.60
3:A:160:THR:HG22	3:A:200:ARG:HD2	1.84	0.60
3:A:692:MET:O	3:A:696:LEU:HG	2.00	0.60
1:B:498:SER:HB2	1:B:509:TRP:NE1	2.17	0.60
1:B:536:SER:OG	1:B:537:GLN:OE1	2.16	0.60
1:B:772:VAL:HA	1:B:775:LEU:HD12	1.83	0.60
1:B:1601:THR:HB	1:B:1605:ARG:HH21	1.66	0.60
2:C:69:PRO:HA	2:C:72:TYR:CG	2.37	0.60
1:F:127:TRP:HD1	1:F:130:GLN:NE2	1.99	0.60
1:F:449:THR:HB	1:F:623:ALA:HB3	1.81	0.60
1:F:594:GLU:HA	1:F:597:GLU:HG2	1.84	0.60
3:A:133:VAL:HB	3:A:155:LEU:HD13	1.84	0.60
3:A:327:LEU:HD21	3:A:385:LEU:HD23	1.84	0.60
3:A:587:HIS:ND1	3:A:606:ASP:OD1	2.34	0.60
1:F:93:SER:HB2	1:F:96:ARG:HH11	1.66	0.60
1:F:1545:HIS:CD2	2:G:5:LYS:HE3	2.36	0.60
3:E:692:MET:O	3:E:696:LEU:HG	2.00	0.60
3:A:288:ASN:HB2	3:A:439:ASN:HD21	1.66	0.60
3:A:309:MET:HB3	3:A:375:PRO:HB3	1.83	0.60
1:B:485:HIS:HB2	1:B:514:LYS:HB3	1.84	0.60
1:B:900:GLU:O	1:B:904:GLN:NE2	2.34	0.60
1:F:741:VAL:HA	1:F:753:LEU:HD11	1.83	0.60
1:B:256:GLU:HG3	1:B:488:ALA:HB2	1.84	0.59
1:B:757:LEU:HD12	1:B:816:ALA:HA	1.83	0.59
1:B:761:LYS:HD3	1:B:822:SER:HB2	1.84	0.59
1:B:993:PHE:O	1:B:997:ILE:HG12	2.01	0.59
1:F:764:PHE:CD1	1:F:826:ASP:HB2	2.36	0.59
1:F:1059:LEU:HD11	1:F:1117:GLU:HA	1.83	0.59
1:F:1164:GLY:HA3	1:F:1168:TYR:CD1	2.36	0.59
3:A:185:ALA:HA	3:A:188:VAL:HG12	1.84	0.59
3:A:555:ARG:O	3:A:559:GLY:N	2.32	0.59
1:B:5:ILE:H	1:B:40:MET:H	1.50	0.59
1:B:128:ARG:NH2	3:A:699:LEU:O	2.32	0.59
1:B:965:ASP:HB3	1:B:968:HIS:CD2	2.36	0.59
1:B:994:LYS:HB2	1:B:1049:LEU:HD21	1.84	0.59
1:B:1439:PRO:HA	1:B:1442:LYS:NZ	2.15	0.59
1:F:44:TRP:CE3	1:F:58:ILE:HG22	2.37	0.59
1:F:1111:GLU:OE1	1:F:1111:GLU:N	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:93:VAL:HG13	2:G:94:ARG:HD3	1.84	0.59
1:B:19:TYR:OH	1:B:44:TRP:HH2	1.84	0.59
1:B:422:ASP:OD1	1:B:425:THR:OG1	2.15	0.59
1:B:659:GLU:N	1:B:659:GLU:OE2	2.35	0.59
1:B:1470:LYS:N	1:B:1481:THR:HB	2.17	0.59
1:F:62:THR:HG21	3:E:712:PRO:HG2	1.85	0.59
1:F:226:VAL:N	1:F:279:ALA:O	2.34	0.59
1:F:380:THR:HG22	1:F:510:TYR:CZ	2.37	0.59
1:F:1588:LEU:O	1:F:1592:LEU:HG	2.03	0.59
1:B:1611:LEU:HD12	1:B:1615:LEU:HB3	1.83	0.59
1:F:638:LEU:HD13	1:F:641:LEU:HD12	1.83	0.59
3:A:54:ALA:HB3	3:A:74:ILE:HB	1.85	0.59
4:D:45:ALA:HA	4:D:50:THR:HA	1.82	0.59
1:B:525:CYS:HB2	1:B:554:LEU:HD12	1.84	0.59
1:B:929:MET:HG3	1:B:933:LEU:HD11	1.84	0.59
1:F:37:ILE:HD13	1:F:45:TYR:HB3	1.83	0.59
1:F:106:TYR:O	3:E:555:ARG:NH2	2.35	0.59
1:F:486:PRO:HA	1:F:513:VAL:HG12	1.84	0.59
3:E:575:TRP:HZ3	3:E:588:TYR:HB2	1.65	0.59
1:B:832:ASP:OD2	1:B:835:GLU:N	2.34	0.59
1:B:1015:ARG:HD3	1:B:1076:TYR:HD1	1.68	0.59
1:F:1098:LYS:O	1:F:1102:ILE:N	2.33	0.59
1:F:1516:GLU:HA	1:F:1519:ILE:HD12	1.85	0.59
3:A:644:ILE:HB	3:A:652:LEU:HD12	1.85	0.59
1:B:187:HIS:ND1	1:B:1006:TRP:HD1	2.01	0.59
1:B:1264:LEU:HD21	1:B:1300:LEU:HD22	1.85	0.59
1:F:44:TRP:HZ2	3:E:713:ILE:HG23	1.68	0.59
3:A:408:LYS:HG3	3:A:474:SER:H	1.68	0.59
4:D:37:PHE:HA	4:D:57:ASP:O	2.03	0.59
1:B:237:GLU:HB2	1:B:308:LEU:HD21	1.85	0.59
1:B:706:ASP:HB3	1:B:709:PHE:HD2	1.67	0.59
1:B:941:ILE:O	1:B:944:ASN:HB2	2.03	0.59
1:F:1197:VAL:O	1:F:1201:LEU:HG	2.03	0.59
3:A:591:LEU:HD21	3:A:604:LEU:H	1.67	0.59
1:B:73:ASP:HB2	1:B:86:PRO:HD3	1.85	0.59
1:B:450:LEU:HD23	1:B:622:ILE:HG12	1.84	0.59
1:B:1043:TRP:HA	1:B:1046:TYR:HB3	1.85	0.59
1:B:1470:LYS:HB3	1:B:1483:TRP:CD1	2.38	0.59
3:A:121:ILE:HG23	3:A:171:VAL:HB	1.85	0.59
3:A:419:GLU:HA	3:A:422:LYS:HG2	1.85	0.59
1:B:102:TRP:HB2	1:B:114:PHE:CE1	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:287:MET:HA	1:B:290:ILE:HG12	1.84	0.59
1:B:1284:GLN:HE22	1:B:1291:TYR:HE2	1.51	0.59
2:C:129:LEU:HA	2:C:132:LYS:HG2	1.85	0.59
1:F:826:ASP:HA	1:F:829:LEU:HD13	1.85	0.59
1:F:1344:LYS:O	1:F:1347:SER:OG	2.18	0.59
2:G:82:PHE:O	2:G:115:THR:OG1	2.14	0.59
4:D:66:ARG:NH1	4:D:67:LEU:HB2	2.18	0.59
4:D:117:LYS:HB3	4:D:156:GLU:HB3	1.85	0.59
1:B:119:GLN:HE21	1:B:122:TYR:HE2	1.50	0.58
1:B:569:LEU:HD12	1:B:620:PHE:HD2	1.68	0.58
1:B:934:ARG:NH1	1:B:938:ARG:HB2	2.18	0.58
1:F:1:MET:HG2	3:E:716:GLU:HB3	1.84	0.58
1:F:863:ILE:O	1:F:867:THR:OG1	2.20	0.58
1:B:7:THR:HG22	1:B:9:ARG:H	1.68	0.58
1:B:79:THR:HA	1:B:85:LEU:HD22	1.85	0.58
1:B:654:LEU:HA	1:B:657:LEU:HG	1.84	0.58
1:B:1357:ARG:HH21	1:B:1453:TYR:HB2	1.67	0.58
1:F:1177:LEU:O	1:F:1181:ARG:HD3	2.03	0.58
2:G:102:ARG:HD3	2:G:149:ILE:HD11	1.85	0.58
1:B:65:HIS:ND1	1:B:65:HIS:O	2.37	0.58
1:B:926:GLN:O	1:B:930:GLU:HG3	2.04	0.58
1:B:966:ASP:HA	1:B:969:TYR:CD1	2.38	0.58
2:C:87:PRO:HA	2:C:90:PHE:CD2	2.38	0.58
1:F:127:TRP:O	1:F:131:ILE:HG12	2.04	0.58
1:F:138:LYS:HA	1:F:141:LEU:HD13	1.84	0.58
1:F:1289:TYR:HD2	1:F:1290:VAL:HG22	1.68	0.58
2:G:68:ARG:HG2	2:G:69:PRO:HD3	1.84	0.58
3:A:698:LEU:O	3:A:702:GLU:HG2	2.03	0.58
1:B:556:ASN:N	1:B:560:THR:O	2.35	0.58
1:B:713:ASN:HA	1:B:716:LEU:HD12	1.84	0.58
1:B:871:GLN:NE2	1:B:875:ARG:HH11	2.00	0.58
1:B:958:ILE:HG13	1:B:959:ALA:N	2.18	0.58
1:B:1094:LEU:HB3	1:B:1098:LYS:HE3	1.83	0.58
1:B:1467:PRO:HG2	2:C:31:GLU:O	2.03	0.58
1:F:86:PRO:HA	1:F:89:GLN:HE21	1.69	0.58
1:F:1102:ILE:HD11	1:F:1134:CYS:HB2	1.85	0.58
3:A:144:GLN:HA	3:A:147:MET:HB3	1.85	0.58
1:B:654:LEU:HD13	1:B:692:LEU:HB2	1.84	0.58
1:B:772:VAL:HG23	1:B:776:ARG:HH22	1.67	0.58
1:B:1452:ASN:OD1	1:B:1453:TYR:N	2.35	0.58
1:F:1010:ASN:OD1	1:F:1013:GLN:NE2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:10:GLN:NE2	1:B:38:LEU:O	2.33	0.58
1:B:553:LYS:HD2	1:B:586:LEU:HD22	1.86	0.58
1:B:652:HIS:O	1:B:656:LYS:HG2	2.03	0.58
1:B:1219:ASN:OD1	1:B:1401:GLN:NE2	2.35	0.58
1:B:1407:LYS:HG3	1:B:1426:MET:SD	2.44	0.58
3:A:261:GLU:O	3:A:265:ILE:HG12	2.02	0.58
1:B:4:TRP:O	3:A:724:TYR:N	2.34	0.58
1:B:976:PHE:HB2	1:B:982:ILE:HD12	1.86	0.58
1:B:1344:LYS:O	1:B:1347:SER:OG	2.14	0.58
2:C:9:VAL:HG22	2:C:78:PHE:CZ	2.37	0.58
1:F:101:ILE:O	1:F:105:LEU:HG	2.03	0.58
1:F:1530:SER:O	1:F:1534:GLN:HG2	2.04	0.58
1:B:965:ASP:HA	1:B:1019:ARG:NH2	2.18	0.58
1:B:1207:TYR:O	1:B:1211:ILE:HG12	2.04	0.58
2:C:128:LYS:HA	2:C:131:GLU:HG2	1.85	0.58
2:C:138:THR:H	2:C:141:GLN:NE2	2.02	0.58
2:G:117:LEU:HD22	2:G:156:GLU:HG2	1.85	0.58
3:A:9:LYS:N	3:A:71:ASN:OD1	2.37	0.58
3:A:260:GLN:HG3	3:A:304:LEU:HD12	1.85	0.58
3:A:489:MET:HB3	3:A:490:ARG:HH21	1.68	0.58
3:A:588:TYR:N	3:A:603:SER:OG	2.36	0.58
1:B:62:THR:HG22	3:A:714:PRO:HD3	1.86	0.58
1:F:34:THR:HB	1:F:50:LEU:HB2	1.86	0.58
1:F:302:ARG:H	1:F:322:PHE:HB2	1.69	0.58
1:F:789:ASN:HB3	1:F:793:GLN:HE22	1.69	0.58
1:F:1565:ASN:O	1:F:1568:LYS:HG3	2.04	0.58
2:G:128:LYS:HA	2:G:131:GLU:HG2	1.85	0.58
1:B:18:ASN:HD21	3:A:536:LEU:HA	1.69	0.57
1:B:41:TYR:HD2	1:B:44:TRP:HB2	1.68	0.57
1:B:80:VAL:HG22	1:B:85:LEU:HD11	1.84	0.57
1:B:743:ASN:HB2	1:B:749:LYS:HD2	1.85	0.57
1:B:1217:LYS:HG3	1:B:1220:ARG:HH21	1.68	0.57
1:F:156:ASN:O	1:F:160:GLY:N	2.37	0.57
2:G:7:VAL:HG22	2:G:56:TRP:CG	2.39	0.57
3:A:445:PHE:HA	3:A:451:SER:OG	2.04	0.57
1:B:332:ILE:HG12	1:B:337:VAL:HB	1.86	0.57
1:B:1238:ASP:OD1	1:B:1239:ILE:N	2.37	0.57
2:C:146:ALA:O	2:C:150:GLY:N	2.37	0.57
1:F:376:ASN:HD22	1:F:504:VAL:HG22	1.69	0.57
1:F:845:GLN:HE22	1:F:881:LEU:HD12	1.68	0.57
1:F:1372:PHE:HB2	1:F:1377:ARG:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1391:ARG:NH2	2:G:27:ALA:O	2.38	0.57
1:F:1466:ARG:O	1:F:1484:ILE:HA	2.05	0.57
1:B:46:ARG:HA	1:B:57:GLY:O	2.05	0.57
1:B:224:LEU:HA	1:B:405:LEU:HA	1.86	0.57
1:B:257:ASN:O	1:B:488:ALA:N	2.35	0.57
1:B:538:GLU:OE1	1:B:542:LYS:NZ	2.33	0.57
1:B:1631:GLU:HA	1:B:1634:GLU:HG2	1.87	0.57
1:F:411:THR:O	1:F:415:LYS:HB2	2.05	0.57
1:F:1206:ASP:HA	1:F:1209:THR:HG22	1.85	0.57
3:A:9:LYS:HD3	4:D:38:ASP:OD1	2.05	0.57
3:A:302:PHE:CE1	3:A:430:VAL:HG22	2.39	0.57
3:A:474:SER:HA	3:A:477:PHE:HB2	1.85	0.57
1:B:228:PHE:CD1	1:B:277:LEU:HD13	2.39	0.57
1:B:320:ARG:CZ	1:B:500:VAL:HB	2.34	0.57
1:B:400:TRP:HZ2	4:D:127:ARG:HB2	1.68	0.57
1:B:744:ALA:HA	1:B:753:LEU:HD11	1.87	0.57
1:F:60:PRO:HG2	1:F:63:TYR:CD2	2.39	0.57
1:F:1461:GLN:OE1	1:F:1490:THR:HG22	2.04	0.57
3:A:379:LEU:O	3:A:383:ASN:ND2	2.37	0.57
3:A:623:PRO:O	3:A:627:GLU:N	2.36	0.57
3:A:687:ASP:OD1	3:A:688:THR:N	2.37	0.57
1:B:934:ARG:HH12	1:B:938:ARG:HB2	1.69	0.57
1:B:1568:LYS:O	1:B:1572:THR:OG1	2.21	0.57
1:F:1623:SER:HB3	1:F:1627:ARG:NH2	2.18	0.57
1:F:1628:GLU:O	1:F:1632:LYS:HG2	2.04	0.57
4:D:8:VAL:HG21	4:D:20:LEU:HD21	1.87	0.57
1:B:106:TYR:HE2	3:A:550:GLN:HE22	1.52	0.57
1:B:1040:LEU:HA	1:B:1043:TRP:CZ3	2.40	0.57
1:B:1217:LYS:H	1:B:1217:LYS:HD3	1.70	0.57
1:B:1276:LYS:HZ3	1:B:1277:PRO:HD2	1.69	0.57
1:B:1582:ASP:HA	1:B:1584:GLU:HG2	1.87	0.57
2:C:41:SER:HA	2:C:54:GLY:HA2	1.86	0.57
1:F:417:PHE:HB3	1:F:420:LEU:HD12	1.85	0.57
1:F:859:CYS:O	1:F:863:ILE:HD12	2.05	0.57
1:F:1221:MET:HE2	1:F:1250:LEU:HD13	1.87	0.57
1:B:879:LEU:HD21	1:B:931:ARG:HH22	1.69	0.57
1:B:1588:LEU:O	1:B:1592:LEU:HG	2.04	0.57
2:C:93:VAL:HG13	2:C:94:ARG:HD2	1.87	0.57
1:F:7:THR:HG22	1:F:9:ARG:H	1.70	0.57
1:F:1082:GLU:O	1:F:1086:ARG:HG2	2.04	0.57
1:B:181:ILE:HG22	1:B:185:LYS:NZ	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:701:ILE:HA	1:B:704:ILE:HD12	1.86	0.57
1:B:994:LYS:N	1:B:1049:LEU:HD11	2.20	0.57
1:B:1079:MET:N	1:B:1079:MET:SD	2.78	0.57
1:B:1412:THR:HG21	1:B:1466:ARG:HD3	1.86	0.57
1:F:1:MET:H3	3:E:717:PRO:HD2	1.70	0.57
1:F:1362:TYR:CE1	1:F:1384:ARG:HG3	2.40	0.57
2:G:137:ILE:HG23	2:G:141:GLN:HE21	1.69	0.57
3:A:358:LYS:HG2	3:A:406:GLU:HG3	1.86	0.57
1:B:581:ASP:HB3	1:B:584:PHE:HB3	1.85	0.57
1:B:1062:GLU:O	1:B:1069:ARG:HD3	2.05	0.57
1:B:1102:ILE:O	1:B:1106:VAL:HG23	2.05	0.57
1:F:18:ASN:HD22	1:F:28:SER:HB3	1.70	0.57
1:F:806:LEU:HD22	1:F:851:GLN:HB3	1.86	0.57
3:E:578:ARG:HB3	3:E:587:HIS:HB2	1.87	0.57
1:B:1328:TYR:HB3	1:B:1338:LEU:HD22	1.87	0.57
1:F:113:LEU:O	1:F:116:GLN:HG2	2.05	0.57
1:F:220:HIS:ND1	1:F:286:SER:HB3	2.20	0.57
1:F:1392:GLU:HA	1:F:1395:SER:HB3	1.86	0.57
4:D:6:CYS:HB3	4:D:55:LEU:HD23	1.87	0.57
1:B:203:SER:O	1:B:207:ASN:N	2.29	0.56
1:B:570:VAL:HG11	1:B:615:SER:OG	2.04	0.56
1:B:707:ILE:HA	1:B:710:GLN:CD	2.25	0.56
1:F:59:PHE:CD2	1:F:64:ILE:HG12	2.38	0.56
1:F:1174:LYS:O	1:F:1178:GLU:HG2	2.04	0.56
1:F:1563:PHE:O	1:F:1567:GLU:HG2	2.05	0.56
3:A:613:ILE:HD13	3:A:646:TYR:HB3	1.86	0.56
1:B:224:LEU:HD23	1:B:281:PHE:HD2	1.70	0.56
1:B:340:GLU:HG3	1:B:404:LYS:HE2	1.87	0.56
1:B:797:ALA:O	1:B:801:LEU:HG	2.06	0.56
1:F:62:THR:HG22	3:E:714:PRO:HD3	1.86	0.56
1:F:713:ASN:O	1:F:762:TYR:OH	2.22	0.56
1:F:1181:ARG:NH1	1:F:1191:GLU:OE2	2.38	0.56
1:F:1322:LYS:HA	1:F:1345:ARG:HH22	1.69	0.56
3:E:576:TYR:HB2	3:E:598:GLU:HG2	1.86	0.56
1:B:187:HIS:HB3	1:B:1006:TRP:CD1	2.40	0.56
1:B:457:LYS:HG2	1:B:463:PRO:HG3	1.87	0.56
1:B:795:PHE:HE2	1:B:843:PHE:HB2	1.68	0.56
1:B:859:CYS:O	1:B:863:ILE:HD12	2.04	0.56
1:B:883:THR:HG21	1:B:931:ARG:HE	1.70	0.56
1:B:969:TYR:O	1:B:974:SER:N	2.38	0.56
1:B:984:ASP:O	1:B:987:MET:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1363:PHE:CE1	1:B:1391:ARG:HA	2.40	0.56
1:B:1506:GLN:NE2	1:B:1507:ILE:O	2.38	0.56
1:B:1618:LEU:O	1:B:1622:LEU:HG	2.05	0.56
1:F:4:TRP:HD1	3:E:722:PHE:HA	1.70	0.56
1:F:1522:MET:O	1:F:1526:ASN:ND2	2.38	0.56
2:G:9:VAL:HG22	2:G:78:PHE:CZ	2.38	0.56
3:E:661:GLU:HA	3:E:664:ILE:HD12	1.87	0.56
3:A:295:TYR:OH	3:A:432:GLU:OE2	2.13	0.56
3:A:320:GLN:O	3:A:324:ILE:HG12	2.05	0.56
3:A:376:PRO:HG2	3:A:380:ALA:HB2	1.87	0.56
3:A:467:TRP:O	3:A:471:ARG:N	2.38	0.56
1:B:99:ALA:HB1	1:B:103:ARG:HH12	1.70	0.56
1:B:1007:MET:HA	1:B:1010:ASN:HB3	1.88	0.56
1:F:46:ARG:HA	1:F:57:GLY:O	2.05	0.56
1:F:247:ASP:HB2	1:F:254:ILE:HD11	1.87	0.56
1:F:1217:LYS:HG2	1:F:1220:ARG:NH2	2.19	0.56
1:F:1483:TRP:NE1	1:F:1514:PRO:HD3	2.20	0.56
3:A:126:ILE:HD13	3:A:171:VAL:HG11	1.86	0.56
3:A:642:PHE:HE2	3:A:652:LEU:HB3	1.69	0.56
3:A:642:PHE:CZ	3:A:654:PHE:HB2	2.40	0.56
1:B:64:ILE:HG22	1:B:66:LEU:N	2.21	0.56
1:B:255:SER:HA	1:B:430:LYS:HA	1.85	0.56
1:B:632:THR:HG21	1:B:637:LEU:HD23	1.86	0.56
1:B:854:ARG:NE	1:B:900:GLU:OE2	2.36	0.56
1:B:1174:LYS:O	1:B:1178:GLU:HG2	2.06	0.56
2:C:47:ASP:OD2	2:C:174:ARG:NH1	2.37	0.56
1:F:74:LEU:HD13	1:F:83:GLY:H	1.69	0.56
1:F:1486:ARG:O	1:F:1510:GLU:N	2.39	0.56
4:D:94:ARG:HG2	4:D:145:LEU:HD13	1.88	0.56
1:F:887:SER:HA	1:F:890:LEU:HB2	1.88	0.56
1:F:1062:GLU:O	1:F:1069:ARG:HD3	2.05	0.56
1:F:1617:PRO:HG3	2:G:70:LEU:HD22	1.86	0.56
3:E:637:VAL:O	3:E:641:ALA:N	2.36	0.56
3:A:224:THR:H	3:A:227:GLN:HE21	1.54	0.56
3:A:637:VAL:HG12	3:A:640:LEU:HD12	1.87	0.56
4:D:19:LEU:HD12	4:D:165:VAL:HG13	1.88	0.56
1:B:73:ASP:O	1:B:79:THR:HG23	2.06	0.56
1:B:281:PHE:HA	1:B:428:ALA:O	2.05	0.56
1:B:578:LYS:HG2	1:B:584:PHE:HE2	1.70	0.56
1:F:16:ILE:HD13	3:E:711:PRO:HG2	1.87	0.56
1:F:99:ALA:HA	1:F:102:TRP:NE1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:589:PRO:HG3	1:F:598:LYS:HD2	1.88	0.56
1:F:1391:ARG:HD2	1:F:1429:PHE:HA	1.87	0.56
1:F:1404:ASN:OD1	1:F:1424:GLN:HB2	2.06	0.56
1:F:1585:LYS:HA	1:F:1588:LEU:HD12	1.88	0.56
2:G:93:VAL:HA	2:G:97:TRP:CD1	2.40	0.56
3:E:541:GLN:HG3	3:E:545:LEU:HD23	1.87	0.56
1:B:166:ARG:HH22	1:B:168:ASP:HB2	1.71	0.56
1:B:243:MET:HB3	1:B:296:LEU:HD11	1.86	0.56
1:B:572:TYR:OH	1:B:595:MET:SD	2.54	0.56
2:C:83:SER:HA	2:C:115:THR:HB	1.86	0.56
1:F:1583:GLN:O	1:F:1586:VAL:HG12	2.06	0.56
2:G:93:VAL:HA	2:G:97:TRP:HD1	1.71	0.56
3:E:665:TRP:O	3:E:669:LEU:HG	2.05	0.56
1:B:59:PHE:CZ	1:B:63:TYR:HB3	2.40	0.56
1:B:472:VAL:HG13	1:B:527:ILE:HG13	1.86	0.56
1:B:1115:THR:O	1:B:1121:ARG:NH2	2.39	0.56
1:F:153:ASP:HA	1:F:156:ASN:ND2	2.20	0.56
1:F:166:ARG:HE	1:F:173:LEU:HD12	1.71	0.56
1:F:891:ASP:HB2	1:F:938:ARG:HH12	1.70	0.56
1:F:923:VAL:O	1:F:927:LEU:HG	2.06	0.56
1:F:964:MET:O	1:F:1019:ARG:NH1	2.39	0.56
1:F:1301:TYR:O	1:F:1305:ILE:HG12	2.05	0.56
1:F:1448:GLU:OE2	1:F:1448:GLU:N	2.29	0.56
3:E:708:ASP:OD1	3:E:709:ALA:N	2.38	0.56
1:B:1102:ILE:HG12	1:B:1131:MET:HB2	1.87	0.56
1:B:1316:LYS:HE3	1:B:1319:LYS:HD3	1.88	0.56
1:F:950:ILE:HA	1:F:953:PHE:HD1	1.71	0.56
1:F:970:SER:O	1:F:974:SER:OG	2.23	0.56
3:E:620:LYS:HA	3:E:625:MET:HB3	1.88	0.56
3:A:52:GLN:HE21	3:A:76:ARG:HE	1.53	0.56
3:A:586:LEU:HB2	3:A:608:LEU:HB3	1.87	0.56
1:B:241:LEU:HB3	1:B:243:MET:HE1	1.88	0.55
1:B:710:GLN:O	1:B:713:ASN:ND2	2.38	0.55
1:B:964:MET:O	1:B:1019:ARG:NH2	2.39	0.55
1:F:73:ASP:HB2	1:F:86:PRO:HD3	1.88	0.55
1:F:844:ILE:HG21	1:F:881:LEU:HD21	1.88	0.55
3:E:639:GLU:OE1	3:E:639:GLU:N	2.38	0.55
3:A:244:ILE:HA	3:A:247:ILE:HD12	1.88	0.55
1:B:166:ARG:O	1:B:171:ASN:HA	2.06	0.55
1:B:651:LYS:HB3	1:B:689:TYR:HE1	1.70	0.55
1:B:1460:GLN:HB2	1:B:1494:THR:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1607:HIS:NE2	1:B:1619:HIS:HB2	2.21	0.55
1:F:105:LEU:HD13	1:F:110:LYS:NZ	2.21	0.55
1:F:792:ARG:NE	1:F:835:GLU:OE1	2.36	0.55
1:F:879:LEU:HG	1:F:931:ARG:NH2	2.20	0.55
1:F:992:MET:O	1:F:996:LEU:HD23	2.06	0.55
2:G:169:PHE:HA	2:G:172:ALA:HB3	1.87	0.55
3:A:623:PRO:HA	3:A:626:LYS:HB2	1.89	0.55
1:B:81:ILE:HD13	1:B:141:LEU:HD21	1.88	0.55
1:B:443:ARG:NH2	1:B:447:TYR:OH	2.39	0.55
1:B:569:LEU:HD11	1:B:622:ILE:HD12	1.87	0.55
1:B:1195:LEU:O	1:B:1198:SER:OG	2.19	0.55
1:B:1536:HIS:CE1	1:B:1610:LYS:HG2	2.42	0.55
1:F:1279:VAL:HG23	1:F:1282:LEU:HG	1.89	0.55
1:F:1378:ASN:ND2	1:F:1419:LYS:O	2.39	0.55
1:F:1612:THR:O	1:F:1616:LYS:N	2.39	0.55
3:A:26:GLN:HE22	3:A:69:ILE:HD12	1.71	0.55
1:F:875:ARG:HG2	1:F:924:HIS:CE1	2.41	0.55
1:F:958:ILE:HB	1:F:1016:VAL:HG21	1.89	0.55
1:F:1125:ILE:HD12	1:F:1172:LEU:HD23	1.88	0.55
1:F:1557:PRO:HB2	1:F:1560:MET:O	2.06	0.55
3:A:121:ILE:HD13	3:A:170:ILE:HB	1.89	0.55
3:A:533:ILE:HA	3:A:536:LEU:HD13	1.87	0.55
1:B:165:VAL:O	1:B:171:ASN:HA	2.06	0.55
1:B:247:ASP:O	1:B:251:SER:N	2.39	0.55
1:B:965:ASP:HB3	1:B:968:HIS:HD2	1.70	0.55
1:F:273:LYS:HA	1:F:276:ASN:HB3	1.89	0.55
1:F:1545:HIS:O	1:F:1548:SER:OG	2.21	0.55
2:G:96:LYS:HD2	2:G:100:GLU:HG2	1.88	0.55
4:D:116:LYS:N	4:D:157:CYS:O	2.38	0.55
1:B:1198:SER:O	1:B:1201:LEU:N	2.40	0.55
1:B:1514:PRO:HA	1:B:1517:ASN:HD22	1.71	0.55
1:F:1469:ARG:NH1	1:F:1481:THR:OG1	2.40	0.55
3:E:565:LEU:HD21	3:E:653:ASN:HB3	1.87	0.55
3:E:670:ASN:HB2	3:E:678:MET:HE1	1.89	0.55
3:A:361:PHE:HE1	3:A:415:ARG:HB2	1.72	0.55
4:D:22:CYS:O	4:D:162:GLN:NE2	2.40	0.55
1:B:122:TYR:HA	1:B:125:ILE:HG12	1.88	0.55
1:B:529:PHE:HB2	1:B:550:ALA:HB3	1.89	0.55
1:B:964:MET:SD	1:B:968:HIS:HB2	2.47	0.55
2:C:129:LEU:O	2:C:133:LYS:N	2.40	0.55
1:F:572:TYR:OH	1:F:589:PRO:O	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:634:ASN:OD1	1:F:637:LEU:N	2.28	0.55
1:F:1390:ARG:NH1	2:G:44:VAL:HG21	2.21	0.55
2:G:90:PHE:CE2	2:G:137:ILE:HB	2.36	0.55
3:A:88:LEU:HD13	3:A:107:LEU:HD13	1.89	0.55
3:A:334:ALA:HB3	3:A:400:LEU:HD11	1.88	0.55
4:D:9:VAL:N	4:D:79:VAL:O	2.39	0.55
1:B:60:PRO:HG2	1:B:63:TYR:CD2	2.42	0.55
2:C:61:GLN:HB3	2:C:64:TYR:HD1	1.71	0.55
1:F:6:PRO:HD3	3:E:724:TYR:HB2	1.89	0.55
1:F:241:LEU:HG	1:F:300:ILE:HG13	1.88	0.55
3:E:573:LYS:NZ	3:E:593:GLU:OE1	2.29	0.55
3:A:217:GLN:OE1	3:A:258:ARG:NH2	2.34	0.55
3:A:276:LEU:HD12	3:A:280:ILE:HB	1.88	0.55
1:B:224:LEU:HD12	1:B:404:LYS:O	2.06	0.55
1:B:232:VAL:N	1:B:398:GLY:O	2.32	0.55
1:B:1546:PRO:HA	1:B:1549:MET:HG2	1.87	0.55
1:F:1117:GLU:OE2	1:F:1120:LEU:N	2.40	0.55
1:F:1384:ARG:HD2	1:F:1495:PHE:HB3	1.89	0.55
1:B:526:HIS:CE1	1:B:585:TYR:HH	2.21	0.55
1:B:1065:SER:H	1:B:1068:LYS:HB3	1.72	0.55
1:F:569:LEU:HB2	1:F:620:PHE:HB3	1.88	0.55
1:F:1412:THR:HB	1:F:1413:PRO:HD3	1.89	0.55
1:F:1470:LYS:HD3	1:F:1483:TRP:CE2	2.42	0.55
2:G:94:ARG:HD2	2:G:145:MET:HG2	1.88	0.55
3:E:585:VAL:HG23	3:E:607:LYS:HA	1.88	0.55
3:E:586:LEU:HB2	3:E:608:LEU:HB3	1.87	0.55
1:B:133:SER:HB3	1:B:135:THR:HG23	1.88	0.54
1:B:229:LYS:HE3	1:B:343:GLN:HG2	1.88	0.54
1:B:319:ARG:NH1	1:B:497:LYS:O	2.41	0.54
1:B:646:ASN:ND2	1:B:653:ASN:HD21	2.05	0.54
1:B:1353:ILE:HG21	1:F:1335:TYR:HB2	1.89	0.54
1:F:932:LEU:N	1:F:935:ARG:HH21	2.05	0.54
1:F:1158:GLU:OE1	1:F:1158:GLU:N	2.40	0.54
1:F:1630:LYS:O	1:F:1634:GLU:HG2	2.07	0.54
3:A:405:ARG:HB2	3:A:407:ASP:OD1	2.07	0.54
3:A:692:MET:O	3:A:696:LEU:N	2.38	0.54
1:B:231:PHE:CE2	1:B:233:CYS:HB3	2.42	0.54
1:B:840:PHE:O	1:B:844:ILE:HG12	2.06	0.54
1:B:936:ILE:O	1:B:940:VAL:HG12	2.07	0.54
1:F:720:ILE:HG12	1:F:766:PHE:CE1	2.42	0.54
1:F:1384:ARG:NH2	1:F:1457:ASN:OD1	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:687:ASP:OD1	3:E:688:THR:N	2.40	0.54
3:A:564:LYS:HA	3:A:654:PHE:HD1	1.73	0.54
1:B:688:THR:O	1:B:692:LEU:HG	2.06	0.54
1:B:1465:SER:HA	1:B:1486:ARG:HG2	1.89	0.54
1:F:1162:GLY:HA2	1:F:1208:ARG:CZ	2.38	0.54
2:G:39:ASN:H	2:G:57:ASP:HB3	1.72	0.54
3:E:640:LEU:O	3:E:656:ALA:N	2.36	0.54
4:D:98:HIS:CE1	4:D:149:ILE:HB	2.43	0.54
1:B:18:ASN:ND2	1:B:28:SER:HB3	2.22	0.54
1:B:342:LYS:O	1:B:402:SER:HA	2.07	0.54
1:B:859:CYS:HA	1:B:862:LYS:HE2	1.90	0.54
1:B:972:TYR:O	1:B:975:THR:N	2.40	0.54
1:B:972:TYR:C	1:B:975:THR:H	2.11	0.54
1:B:1148:GLU:O	1:B:1152:ILE:HG12	2.07	0.54
1:B:1280:PRO:HA	1:B:1283:LEU:HD23	1.89	0.54
1:B:1611:LEU:HD11	1:B:1616:LYS:HA	1.88	0.54
2:C:69:PRO:HA	2:C:72:TYR:CD2	2.42	0.54
2:C:139:TYR:HD1	2:C:156:GLU:OE1	1.89	0.54
1:F:1117:GLU:OE2	1:F:1120:LEU:HG	2.08	0.54
1:F:1483:TRP:CE2	1:F:1514:PRO:HD3	2.42	0.54
1:B:199:GLN:HA	1:B:202:LYS:HZ3	1.72	0.54
1:B:669:LEU:HD12	1:B:670:GLN:N	2.23	0.54
2:C:98:TYR:CE1	2:C:149:ILE:HD13	2.41	0.54
1:F:19:TYR:CG	1:F:20:ASN:N	2.76	0.54
1:F:80:VAL:HG22	1:F:85:LEU:HD21	1.88	0.54
1:F:85:LEU:O	1:F:88:VAL:HG12	2.08	0.54
1:F:738:ASN:HA	1:F:741:VAL:HG12	1.89	0.54
1:F:1440:SER:H	1:F:1442:LYS:NZ	2.06	0.54
1:F:1485:GLU:HG3	1:F:1511:GLU:OE1	2.08	0.54
2:G:96:LYS:O	2:G:100:GLU:HG3	2.07	0.54
2:G:164:GLY:O	2:G:168:VAL:HG23	2.08	0.54
3:E:578:ARG:HG2	3:E:587:HIS:HD2	1.72	0.54
3:A:669:LEU:HA	3:A:672:LEU:HD12	1.89	0.54
3:A:715:LYS:NZ	3:A:716:GLU:O	2.37	0.54
1:B:6:PRO:HG3	3:A:724:TYR:CD1	2.42	0.54
1:B:979:ARG:O	1:B:982:ILE:HG22	2.07	0.54
1:B:1088:ARG:HG2	1:B:1092:TYR:CE2	2.43	0.54
1:F:4:TRP:CZ3	1:F:46:ARG:HG2	2.43	0.54
1:F:181:ILE:O	1:F:185:LYS:NZ	2.41	0.54
1:F:1339:GLY:O	1:F:1343:LYS:HG3	2.08	0.54
3:A:272:ARG:NH1	3:A:273:SER:HB2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:309:MET:HE3	3:A:376:PRO:HB3	1.89	0.54
1:B:4:TRP:CE3	1:B:46:ARG:HG2	2.43	0.54
1:B:882:LEU:HA	1:B:885:GLN:NE2	2.22	0.54
1:B:1008:VAL:O	1:B:1012:THR:HG23	2.08	0.54
1:B:1602:GLU:HA	1:B:1605:ARG:NE	2.23	0.54
1:F:318:LEU:HD22	1:F:320:ARG:HH22	1.72	0.54
1:F:1184:LYS:H	1:F:1184:LYS:HD2	1.73	0.54
3:E:544:ILE:HG21	3:E:690:LEU:HD22	1.89	0.54
3:A:380:ALA:O	3:A:384:MET:HG2	2.07	0.54
3:A:511:TYR:HE1	3:A:518:ARG:HH21	1.55	0.54
3:A:678:MET:N	3:A:678:MET:SD	2.81	0.54
1:B:561:THR:HG21	1:B:631:LEU:HD22	1.90	0.54
2:C:21:ILE:HD11	2:C:35:THR:HG23	1.89	0.54
1:F:41:TYR:CZ	3:E:717:PRO:HD3	2.41	0.54
1:F:1478:GLU:O	1:F:1482:MET:HG2	2.08	0.54
2:G:82:PHE:HD1	2:G:112:LEU:HD11	1.73	0.54
3:E:579:LEU:HD13	3:E:586:LEU:HD22	1.90	0.54
3:A:619:GLY:N	3:A:641:ALA:O	2.39	0.54
4:D:21:ILE:O	4:D:26:ASN:N	2.41	0.54
1:B:1086:ARG:O	1:B:1090:MET:HG2	2.08	0.54
1:B:1482:MET:HA	1:B:1482:MET:HE3	1.89	0.54
1:B:1485:GLU:OE1	1:B:1485:GLU:N	2.40	0.54
1:F:128:ARG:NH1	1:F:128:ARG:O	2.34	0.54
1:F:843:PHE:O	1:F:846:SER:OG	2.17	0.54
1:F:857:LEU:HB3	1:F:905:LEU:HD21	1.90	0.54
1:F:1028:LEU:O	1:F:1032:PHE:CB	2.48	0.54
1:F:1178:GLU:O	1:F:1182:LYS:HD2	2.08	0.54
1:F:1391:ARG:NE	2:G:26:ASN:O	2.39	0.54
3:A:133:VAL:HG21	3:A:158:THR:HG21	1.90	0.54
1:B:1069:ARG:O	1:B:1073:VAL:HG23	2.07	0.54
1:B:1633:VAL:HG12	1:B:1637:TYR:HD2	1.71	0.54
2:C:123:LYS:HA	2:C:126:ILE:HG12	1.88	0.54
1:F:167:ASP:OD1	1:F:168:ASP:N	2.36	0.54
1:F:198:ILE:O	1:F:201:GLU:HG2	2.07	0.54
1:F:719:TYR:HD1	1:F:723:HIS:HB2	1.72	0.54
1:F:896:LYS:HG2	1:F:897:PRO:HD3	1.90	0.54
3:A:251:PHE:HB3	3:A:300:LEU:HD22	1.89	0.54
3:A:552:ARG:HD3	3:A:664:ILE:HG23	1.90	0.54
1:B:154:HIS:O	1:B:158:MET:HG2	2.08	0.53
1:B:962:GLN:O	1:B:1019:ARG:NH1	2.40	0.53
1:B:1363:PHE:HE1	1:B:1391:ARG:HA	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:198:ILE:HG13	1:F:202:LYS:NZ	2.23	0.53
1:F:1043:TRP:HA	1:F:1046:TYR:HB3	1.90	0.53
3:A:331:ALA:HB2	3:A:395:TYR:CE2	2.44	0.53
4:D:79:VAL:HG22	4:D:111:LEU:HD23	1.90	0.53
1:B:630:LYS:HG3	1:B:668:PHE:HZ	1.73	0.53
1:F:141:LEU:O	1:F:145:LYS:HG3	2.07	0.53
3:A:294:LEU:HA	3:A:297:LEU:HD12	1.89	0.53
4:D:5:LYS:HG2	4:D:75:THR:HA	1.91	0.53
4:D:46:VAL:HG11	4:D:174:ARG:HB3	1.90	0.53
1:B:228:PHE:CE2	1:B:399:LEU:HB2	2.40	0.53
1:B:1125:ILE:HD13	1:B:1175:LEU:HB2	1.88	0.53
1:F:31:ILE:HB	3:E:697:ARG:HB3	1.91	0.53
1:F:450:LEU:HB3	1:F:509:TRP:CE3	2.42	0.53
1:F:1109:ILE:O	1:F:1112:VAL:HG22	2.08	0.53
3:A:424:LEU:O	3:A:428:LEU:HB2	2.08	0.53
4:D:82:PHE:CE1	4:D:90:TYR:HD2	2.26	0.53
4:D:152:VAL:HG21	4:D:175:ALA:HB2	1.90	0.53
1:B:821:PRO:O	1:B:824:ILE:HG12	2.08	0.53
1:B:1221:MET:HG3	1:B:1250:LEU:HD13	1.90	0.53
2:C:90:PHE:HE2	2:C:137:ILE:HB	1.73	0.53
1:F:219:ILE:HD12	1:F:408:GLY:HA2	1.90	0.53
1:F:245:LEU:O	1:F:254:ILE:N	2.33	0.53
1:F:666:VAL:HA	1:F:669:LEU:HB3	1.91	0.53
1:F:785:ASP:OD1	1:F:786:GLU:N	2.41	0.53
2:G:98:TYR:CE1	2:G:149:ILE:HD13	2.39	0.53
3:E:616:VAL:HA	3:E:644:ILE:HA	1.91	0.53
3:E:670:ASN:HA	3:E:673:LEU:HD12	1.90	0.53
3:A:51:LEU:HA	3:A:77:LEU:HA	1.89	0.53
3:A:408:LYS:HG2	3:A:475:GLU:OE1	2.09	0.53
1:B:1082:GLU:OE1	1:B:1082:GLU:N	2.27	0.53
1:F:643:TRP:HZ2	1:F:678:ASN:HB3	1.73	0.53
1:F:1240:TYR:O	1:F:1244:LEU:HG	2.09	0.53
3:A:52:GLN:HG2	3:A:76:ARG:O	2.09	0.53
3:A:323:ILE:O	3:A:326:GLU:HG3	2.08	0.53
1:B:1328:TYR:HA	1:B:1332:VAL:HG22	1.91	0.53
2:C:162:GLN:HA	2:C:165:LEU:HD13	1.89	0.53
1:F:4:TRP:CE3	1:F:46:ARG:HG2	2.43	0.53
1:F:1601:THR:O	1:F:1605:ARG:HG2	2.08	0.53
2:G:83:SER:HA	2:G:115:THR:HB	1.90	0.53
3:A:181:ILE:HD11	3:A:219:VAL:HA	1.90	0.53
1:B:118:GLN:HB3	1:B:122:TYR:CZ	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:PRO:HD3	1:B:492:GLY:HA2	1.91	0.53
1:B:727:THR:O	1:B:774:TYR:HB2	2.08	0.53
1:F:300:ILE:O	1:F:322:PHE:HB3	2.08	0.53
1:F:467:GLU:OE1	1:F:534:ARG:HD3	2.08	0.53
1:F:921:THR:OG1	1:F:924:HIS:HB3	2.09	0.53
1:F:1024:PHE:HA	1:F:1027:VAL:HG12	1.90	0.53
1:F:1063:THR:HA	1:F:1069:ARG:CD	2.39	0.53
1:F:1066:GLN:HA	1:F:1069:ARG:NH2	2.23	0.53
1:F:1089:ASP:HA	1:F:1092:TYR:CD2	2.43	0.53
3:A:129:LEU:HA	3:A:132:MET:HG2	1.90	0.53
3:A:457:CYS:O	3:A:460:ILE:HG22	2.08	0.53
3:A:563:ARG:HG2	3:A:573:LYS:O	2.08	0.53
1:B:46:ARG:HB3	1:B:58:ILE:HG12	1.90	0.53
1:B:154:HIS:HA	1:B:157:ARG:NE	2.21	0.53
1:B:979:ARG:O	1:B:983:ILE:HG13	2.09	0.53
1:B:1143:ASN:HB2	1:B:1145:HIS:CD2	2.43	0.53
1:B:1443:ASP:OD1	1:B:1443:ASP:N	2.40	0.53
1:F:730:TYR:CZ	1:F:731:VAL:HG23	2.44	0.53
1:F:914:ASP:HB2	1:F:963:GLN:CD	2.29	0.53
1:F:936:ILE:HD12	1:F:939:THR:HB	1.91	0.53
1:F:1618:LEU:HD22	1:F:1621:ARG:NH2	2.23	0.53
2:G:93:VAL:HG23	2:G:97:TRP:HB2	1.89	0.53
1:B:470:MET:SD	1:B:496:TYR:HB3	2.49	0.53
1:B:529:PHE:N	1:B:550:ALA:O	2.24	0.53
1:B:725:SER:HA	1:B:773:LEU:HD11	1.91	0.53
1:B:852:LEU:HB3	1:B:855:GLN:HB2	1.90	0.53
1:B:1386:LYS:HB3	1:B:1389:GLU:HB2	1.90	0.53
1:F:154:HIS:O	1:F:158:MET:HG2	2.08	0.53
1:F:221:THR:O	1:F:408:GLY:N	2.42	0.53
1:F:828:LYS:NZ	1:F:867:THR:HA	2.24	0.53
1:F:1529:ILE:HD13	1:F:1550:LEU:HD23	1.91	0.53
2:G:11:ASP:OD1	2:G:11:ASP:N	2.41	0.53
3:A:45:ASN:HB3	3:A:48:TYR:CD2	2.44	0.53
3:A:202:LEU:HD23	3:A:205:LEU:HD12	1.91	0.53
1:B:142:ALA:HA	1:B:145:LYS:HE2	1.91	0.53
1:B:306:MET:HB2	1:B:314:HIS:CE1	2.43	0.53
1:B:589:PRO:HG3	1:B:598:LYS:HD2	1.90	0.53
1:B:1231:TYR:HE2	1:B:1243:TYR:CE2	2.23	0.53
1:B:1599:LEU:HA	1:B:1602:GLU:OE1	2.09	0.53
2:C:82:PHE:HD1	2:C:112:LEU:HD11	1.73	0.53
1:F:166:ARG:O	1:F:171:ASN:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:674:ASP:O	1:F:678:ASN:ND2	2.43	0.53
3:E:548:ILE:O	3:E:552:ARG:HG2	2.09	0.53
3:A:111:SER:O	3:A:168:HIS:NE2	2.41	0.53
3:A:178:VAL:O	3:A:182:LYS:HG2	2.09	0.53
3:A:224:THR:HB	3:A:227:GLN:HG2	1.91	0.53
3:A:276:LEU:HA	3:A:280:ILE:HD12	1.91	0.53
3:A:309:MET:SD	3:A:379:LEU:HD13	2.48	0.53
3:A:646:TYR:CE1	3:A:652:LEU:HG	2.44	0.53
1:B:204:ILE:HA	1:B:207:ASN:O	2.09	0.52
1:B:936:ILE:HD12	1:B:939:THR:HB	1.91	0.52
1:B:1307:TYR:O	1:B:1311:GLY:N	2.42	0.52
1:F:297:VAL:O	1:F:299:GLN:NE2	2.42	0.52
1:F:414:GLN:NE2	1:F:427:ILE:HD11	2.24	0.52
1:F:1362:TYR:OH	1:F:1384:ARG:NE	2.36	0.52
3:A:306:GLU:O	3:A:310:MET:HE2	2.09	0.52
3:A:457:CYS:SG	3:A:458:ILE:N	2.82	0.52
3:A:590:ASP:O	3:A:604:LEU:HD22	2.09	0.52
4:D:145:LEU:O	4:D:149:ILE:HG12	2.09	0.52
1:B:2:ALA:N	3:A:717:PRO:HG2	2.23	0.52
1:B:43:GLY:O	1:B:61:GLU:N	2.37	0.52
1:B:1516:GLU:O	1:B:1519:ILE:N	2.41	0.52
1:F:18:ASN:HD21	3:E:536:LEU:HA	1.73	0.52
1:F:19:TYR:CG	1:F:59:PHE:HE1	2.27	0.52
1:F:72:GLU:HA	1:F:89:GLN:NE2	2.21	0.52
1:F:1245:TYR:HD2	1:F:1248:ARG:NH2	2.02	0.52
2:G:28:PHE:HB3	2:G:31:GLU:HG3	1.92	0.52
2:G:84:LEU:HD13	2:G:120:ARG:HH11	1.74	0.52
3:A:423:MET:SD	3:A:424:LEU:N	2.82	0.52
1:B:19:TYR:CG	1:B:20:ASN:N	2.76	0.52
1:B:697:LEU:HA	1:B:700:ILE:HD12	1.90	0.52
1:F:73:ASP:O	1:F:79:THR:N	2.39	0.52
1:F:225:TYR:HE1	1:F:278:GLN:HB3	1.73	0.52
1:F:1306:SER:O	1:F:1310:LYS:HG2	2.09	0.52
3:A:541:GLN:HG3	3:A:545:LEU:HD23	1.91	0.52
4:D:86:SER:O	4:D:89:SER:OG	2.13	0.52
1:B:246:TYR:OH	1:B:383:LEU:HD21	2.09	0.52
1:B:566:ARG:HA	1:B:623:ALA:HA	1.90	0.52
1:B:704:ILE:HG21	1:B:716:LEU:HD11	1.92	0.52
1:B:1086:ARG:NH2	1:B:1089:ASP:OD2	2.35	0.52
1:B:1524:LEU:HA	1:B:1527:GLU:CD	2.29	0.52
2:C:82:PHE:CZ	2:C:114:GLY:HA2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:871:GLN:HG2	1:F:875:ARG:HB2	1.90	0.52
1:F:1220:ARG:O	1:F:1224:THR:HG22	2.08	0.52
1:F:1440:SER:H	1:F:1442:LYS:HZ2	1.57	0.52
2:G:87:PRO:HA	2:G:90:PHE:CD2	2.44	0.52
3:E:537:LYS:HE3	3:E:690:LEU:HD23	1.92	0.52
3:A:408:LYS:O	3:A:474:SER:N	2.43	0.52
1:B:261:ARG:HB2	1:B:270:GLU:HG3	1.91	0.52
1:B:380:THR:HG22	1:B:510:TYR:CZ	2.44	0.52
1:B:570:VAL:HB	1:B:572:TYR:CE2	2.44	0.52
1:B:958:ILE:HG13	1:B:959:ALA:H	1.72	0.52
1:B:1518:ALA:HB1	1:B:1566:TYR:HE1	1.73	0.52
1:B:1535:GLN:OE1	1:B:1542:LEU:HD11	2.09	0.52
2:C:5:LYS:N	2:C:76:ASP:OD2	2.42	0.52
2:C:23:TYR:HB2	2:C:165:LEU:HD21	1.90	0.52
1:F:957:MET:HA	1:F:960:LEU:HD12	1.91	0.52
1:F:1469:ARG:HD2	1:F:1481:THR:HB	1.90	0.52
1:F:1470:LYS:HB3	1:F:1483:TRP:CD1	2.45	0.52
3:A:464:ASN:O	3:A:468:LYS:HG2	2.09	0.52
3:A:511:TYR:HE1	3:A:518:ARG:NH2	2.07	0.52
1:B:249:ASP:OD2	1:B:293:ARG:N	2.43	0.52
1:B:330:THR:HG23	1:B:333:ILE:HD11	1.91	0.52
1:B:457:LYS:HA	1:B:463:PRO:HA	1.90	0.52
1:B:643:TRP:HA	1:B:646:ASN:HB3	1.90	0.52
1:B:925:ILE:HA	1:B:928:ILE:HD12	1.91	0.52
1:B:1514:PRO:HA	1:B:1517:ASN:HB2	1.90	0.52
1:F:1032:PHE:HB3	1:F:1043:TRP:HH2	1.75	0.52
1:F:1135:GLU:O	1:F:1139:SER:OG	2.25	0.52
1:F:1483:TRP:HE3	1:F:1511:GLU:HG3	1.74	0.52
2:G:129:LEU:O	2:G:134:LEU:N	2.37	0.52
3:A:259:ARG:HB3	3:A:304:LEU:HD11	1.91	0.52
3:A:609:PRO:HD2	3:A:612:ASP:OD1	2.09	0.52
1:B:273:LYS:O	1:B:277:LEU:HG	2.09	0.52
1:B:1178:GLU:O	1:B:1182:LYS:HD2	2.10	0.52
1:B:1368:TYR:O	1:B:1372:PHE:HE2	1.93	0.52
1:F:79:THR:HA	1:F:85:LEU:HD22	1.91	0.52
1:F:81:ILE:HG21	1:F:141:LEU:HD21	1.91	0.52
3:E:556:LEU:HD21	3:E:665:TRP:CD1	2.45	0.52
3:A:612:ASP:HB2	3:A:646:TYR:HB2	1.90	0.52
1:B:106:TYR:HA	1:B:111:LEU:HD11	1.91	0.52
1:B:306:MET:HG2	1:B:320:ARG:HH21	1.75	0.52
1:B:772:VAL:HG23	1:B:776:ARG:NH2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:909:ILE:HG13	1:B:910:LEU:H	1.73	0.52
1:F:714:PRO:HA	1:F:717:GLU:HG2	1.92	0.52
1:F:1054:LEU:HB2	1:F:1083:ILE:HG21	1.92	0.52
1:F:1229:ASN:HA	1:F:1232:LYS:HE2	1.91	0.52
1:F:1248:ARG:NH1	1:F:1252:ARG:HH12	2.06	0.52
3:E:698:LEU:O	3:E:702:GLU:HG2	2.10	0.52
3:A:309:MET:CE	3:A:376:PRO:HB3	2.39	0.52
4:D:14:VAL:O	4:D:116:LYS:NZ	2.33	0.52
1:B:41:TYR:CE1	3:A:717:PRO:HD3	2.45	0.52
1:B:437:ILE:HG13	1:B:708:LYS:HE3	1.92	0.52
1:B:706:ASP:OD1	1:B:708:LYS:N	2.31	0.52
1:B:1089:ASP:HA	1:B:1092:TYR:CD2	2.45	0.52
1:B:1154:LYS:HA	1:B:1157:GLN:OE1	2.10	0.52
1:B:1391:ARG:HH11	1:B:1429:PHE:HA	1.75	0.52
1:F:187:HIS:HB3	1:F:1006:TRP:CD1	2.44	0.52
1:F:1065:SER:OG	1:F:1068:LYS:N	2.43	0.52
3:E:678:MET:HA	3:E:683:ARG:HH12	1.75	0.52
3:A:425:CYS:HA	3:A:430:VAL:HB	1.91	0.52
3:A:670:ASN:HA	3:A:673:LEU:HB2	1.91	0.52
1:B:60:PRO:HB3	3:A:714:PRO:HD2	1.92	0.52
1:B:1136:PHE:HZ	1:B:1185:TYR:CE2	2.28	0.52
1:B:1274:SER:HB2	1:B:1293:GLN:NE2	2.25	0.52
1:B:1623:SER:HB3	1:B:1627:ARG:NH2	2.25	0.52
1:F:48:TYR:HB3	1:F:53:LYS:HA	1.92	0.52
1:F:59:PHE:CZ	1:F:63:TYR:HB3	2.45	0.52
1:F:221:THR:HG23	1:F:283:ASP:HA	1.92	0.52
1:F:583:LYS:HG3	1:F:586:LEU:HD12	1.90	0.52
1:F:724:PHE:CZ	1:F:726:ALA:HB3	2.44	0.52
1:F:945:ARG:NH1	1:F:946:GLN:HB2	2.24	0.52
1:F:1573:GLU:O	1:F:1577:GLN:NE2	2.43	0.52
1:F:1607:HIS:NE2	1:F:1615:LEU:HB3	2.24	0.52
2:G:5:LYS:HG2	2:G:56:TRP:HE1	1.75	0.52
3:A:198:LEU:HD11	3:A:231:HIS:CD2	2.44	0.52
3:A:387:PHE:O	3:A:392:GLN:N	2.43	0.52
1:B:110:LYS:HD3	1:B:113:LEU:HD12	1.91	0.51
1:B:297:VAL:HG22	1:B:326:VAL:HG22	1.91	0.51
1:B:411:THR:O	1:B:415:LYS:HD3	2.11	0.51
1:B:469:THR:HB	1:B:530:THR:OG1	2.10	0.51
1:B:970:SER:HA	1:B:974:SER:HB3	1.93	0.51
1:B:1165:ASP:HB2	1:B:1168:TYR:HB2	1.92	0.51
1:B:1390:ARG:HB2	2:C:166:LYS:HZ2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:677:PHE:HE2	1:F:766:PHE:CE1	2.28	0.51
1:F:879:LEU:HD13	1:F:924:HIS:CE1	2.45	0.51
1:F:1026:GLU:O	1:F:1029:THR:OG1	2.22	0.51
1:F:1291:TYR:HB3	1:F:1296:LEU:CD2	2.35	0.51
1:F:1405:ALA:H	3:E:584:LYS:HZ1	1.55	0.51
3:E:532:PRO:HA	3:E:535:GLU:CD	2.31	0.51
3:E:578:ARG:O	3:E:587:HIS:N	2.23	0.51
3:E:588:TYR:OH	3:E:607:LYS:O	2.20	0.51
3:A:299:VAL:O	3:A:303:ASN:ND2	2.43	0.51
4:D:158:SER:HB3	4:D:163:ASP:HB3	1.92	0.51
1:B:520:GLU:OE1	1:B:520:GLU:N	2.32	0.51
1:B:716:LEU:O	1:B:720:ILE:HG13	2.10	0.51
1:B:1370:GLN:O	1:B:1377:ARG:NH2	2.43	0.51
2:C:90:PHE:O	2:C:94:ARG:HD3	2.11	0.51
1:F:17:TYR:CZ	3:E:710:PRO:HB3	2.45	0.51
2:G:124:ASP:O	2:G:127:GLU:HG2	2.09	0.51
2:G:137:ILE:HG23	2:G:141:GLN:NE2	2.24	0.51
3:A:491:ALA:O	3:A:496:PRO:HD3	2.09	0.51
1:B:4:TRP:CZ3	1:B:46:ARG:HG2	2.44	0.51
1:B:166:ARG:HE	1:B:173:LEU:HD12	1.76	0.51
1:B:232:VAL:O	1:B:397:GLN:HA	2.09	0.51
1:B:383:LEU:HD22	1:B:510:TYR:CE2	2.46	0.51
1:B:556:ASN:ND2	1:B:560:THR:OG1	2.25	0.51
1:B:1372:PHE:CZ	1:B:1424:GLN:HB3	2.45	0.51
1:F:34:THR:O	1:F:50:LEU:N	2.31	0.51
1:F:764:PHE:CD1	1:F:823:ILE:HB	2.44	0.51
1:F:1360:PRO:HG2	1:F:1362:TYR:CE1	2.45	0.51
3:A:52:GLN:HA	3:A:61:ILE:HG12	1.91	0.51
1:B:1:MET:N	3:A:716:GLU:HB3	2.25	0.51
1:B:4:TRP:CD1	3:A:722:PHE:HD1	2.29	0.51
1:B:1586:VAL:HA	1:B:1589:LEU:HD12	1.91	0.51
3:A:51:LEU:HD22	3:A:75:LEU:HB3	1.91	0.51
3:A:224:THR:HG22	3:A:226:GLY:H	1.75	0.51
3:A:386:TYR:CD1	3:A:453:GLU:HB3	2.45	0.51
4:D:1:MET:HG3	4:D:52:ASN:HB2	1.91	0.51
1:B:694:PHE:O	1:B:697:LEU:HG	2.11	0.51
1:B:720:ILE:HG12	1:B:766:PHE:CE1	2.46	0.51
1:B:1539:ASP:OD1	1:B:1542:LEU:HB2	2.11	0.51
1:B:1557:PRO:HB2	1:B:1562:GLY:H	1.75	0.51
1:F:36:HIS:N	1:F:48:TYR:O	2.41	0.51
3:A:348:ARG:NH1	3:A:352:TYR:OH	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:491:ALA:O	3:A:494:THR:OG1	2.24	0.51
3:A:496:PRO:HG2	3:A:502:PHE:HD1	1.76	0.51
3:A:532:PRO:HA	3:A:535:GLU:CD	2.31	0.51
3:A:644:ILE:HD11	3:A:669:LEU:HD13	1.92	0.51
3:A:670:ASN:O	3:A:674:GLY:N	2.43	0.51
1:B:105:LEU:HD13	1:B:110:LYS:NZ	2.24	0.51
1:B:127:TRP:O	1:B:131:ILE:HG12	2.09	0.51
1:B:438:LEU:N	1:B:441:ASP:OD2	2.44	0.51
1:B:794:LEU:HG	1:B:798:PHE:CZ	2.45	0.51
1:B:1220:ARG:O	1:B:1224:THR:HG22	2.11	0.51
2:C:8:VAL:HG22	2:C:79:LEU:HB2	1.93	0.51
2:C:65:ASP:HA	2:C:68:ARG:NE	2.26	0.51
1:F:817:LEU:HD11	1:F:855:GLN:HB3	1.93	0.51
1:F:1062:GLU:O	1:F:1069:ARG:N	2.44	0.51
1:F:1336:GLU:O	1:F:1340:ASN:ND2	2.44	0.51
1:F:1361:GLU:OE2	1:F:1388:TYR:HA	2.11	0.51
1:F:1593:ILE:O	1:F:1596:GLN:HB3	2.11	0.51
3:A:582:ASN:HB2	3:A:585:VAL:HG12	1.91	0.51
4:D:154:TYR:OH	4:D:156:GLU:OE2	2.18	0.51
1:B:87:LEU:O	1:B:90:GLU:HG3	2.11	0.51
1:B:744:ALA:HB3	1:B:804:ARG:NH1	2.25	0.51
1:B:1436:SER:OG	1:B:1437:LEU:N	2.44	0.51
1:B:1478:GLU:HG3	2:C:34:PRO:HB2	1.93	0.51
1:F:333:ILE:O	1:F:405:LEU:HD22	2.11	0.51
1:F:337:VAL:HG11	1:F:344:HIS:CE1	2.46	0.51
1:F:864:VAL:HG11	1:F:909:ILE:HG22	1.93	0.51
1:F:889:GLN:OE1	1:F:895:ASN:HB3	2.11	0.51
1:F:1110:LEU:O	1:F:1114:LEU:N	2.43	0.51
1:F:1340:ASN:HA	1:F:1343:LYS:HE2	1.92	0.51
1:F:1567:GLU:HA	1:F:1571:PHE:CD1	2.45	0.51
1:F:1613:GLU:OE2	1:F:1614:GLN:NE2	2.43	0.51
4:D:90:TYR:CE1	4:D:94:ARG:HD2	2.46	0.51
1:B:972:TYR:CE2	1:B:976:PHE:HA	2.45	0.51
1:B:1200:LEU:HD23	1:B:1230:PHE:CE2	2.42	0.51
1:B:1495:PHE:CE1	1:B:1502:PHE:HD2	2.28	0.51
1:F:914:ASP:OD1	1:F:916:LYS:NZ	2.38	0.51
1:F:1372:PHE:O	1:F:1377:ARG:NH2	2.44	0.51
3:E:543:GLU:O	3:E:546:GLU:HG2	2.11	0.51
3:E:680:ASP:OD1	3:E:681:LEU:HD12	2.11	0.51
3:A:72:GLY:HA3	4:D:64:TYR:HE2	1.76	0.51
3:A:546:GLU:HA	3:A:549:LYS:HE3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:69:ALA:HB2	1:B:76:GLN:HB2	1.93	0.51
1:B:299:GLN:HG3	1:B:324:VAL:HG22	1.92	0.51
1:B:927:LEU:CB	1:B:931:ARG:HH12	2.17	0.51
1:B:1148:GLU:HA	1:B:1151:LEU:HB3	1.93	0.51
1:B:1306:SER:O	1:B:1310:LYS:HG2	2.11	0.51
1:B:1474:ASP:OD2	1:B:1477:ASN:ND2	2.37	0.51
1:F:44:TRP:HE3	1:F:58:ILE:HG22	1.76	0.51
1:F:98:TRP:HZ3	1:F:159:LEU:HD13	1.75	0.51
1:F:129:SER:O	1:F:132:LEU:HB2	2.11	0.51
1:F:1489:TYR:HE1	1:F:1507:ILE:HG13	1.74	0.51
3:E:579:LEU:HG	3:E:583:HIS:HD1	1.76	0.51
3:A:8:VAL:HG22	3:A:10:VAL:HG13	1.93	0.51
3:A:198:LEU:HD21	3:A:231:HIS:HD2	1.75	0.51
1:B:45:TYR:CE2	1:B:66:LEU:HD12	2.46	0.51
1:B:111:LEU:O	1:B:114:PHE:HB3	2.11	0.51
1:B:127:TRP:O	1:B:130:GLN:HG2	2.11	0.51
1:B:240:GLU:O	1:B:300:ILE:HA	2.11	0.51
1:B:985:PHE:O	1:B:989:THR:HG23	2.11	0.51
1:B:1322:LYS:HD3	1:B:1345:ARG:NH1	2.26	0.51
2:C:7:VAL:HG22	2:C:56:TRP:CD1	2.46	0.51
1:F:195:GLU:O	1:F:199:GLN:HG2	2.11	0.51
1:F:616:THR:OG1	1:F:617:LYS:N	2.44	0.51
1:F:787:PHE:O	1:F:791:ILE:HG12	2.11	0.51
1:F:872:SER:HA	1:F:875:ARG:HH12	1.76	0.51
1:F:1306:SER:HB3	1:F:1310:LYS:NZ	2.25	0.51
1:F:1579:HIS:HB3	1:F:1582:ASP:HB2	1.93	0.51
3:E:563:ARG:HG3	3:E:657:PRO:HG3	1.92	0.51
3:A:462:LEU:HD22	3:A:506:LEU:HB3	1.93	0.51
3:A:533:ILE:HD11	3:A:706:ILE:HD13	1.93	0.51
1:B:729:ALA:O	1:B:733:LEU:HG	2.11	0.50
1:B:1546:PRO:O	1:B:1549:MET:HB2	2.11	0.50
2:C:130:LYS:HE2	2:C:130:LYS:HA	1.93	0.50
1:F:101:ILE:HD12	1:F:104:LYS:HG3	1.93	0.50
1:F:120:MET:O	1:F:123:SER:OG	2.24	0.50
1:F:569:LEU:HD12	1:F:620:PHE:CD2	2.47	0.50
1:F:809:ALA:O	1:F:813:LYS:HG3	2.11	0.50
1:F:941:ILE:O	1:F:944:ASN:HB2	2.10	0.50
3:E:613:ILE:HD12	3:E:644:ILE:HG22	1.93	0.50
3:E:637:VAL:HA	3:E:640:LEU:HD12	1.92	0.50
3:A:548:ILE:O	3:A:551:GLN:HB3	2.11	0.50
1:B:166:ARG:HG2	1:B:173:LEU:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:628:SER:OG	1:B:629:THR:N	2.43	0.50
1:B:652:HIS:HA	1:B:655:LYS:HD2	1.92	0.50
1:B:761:LYS:HG3	1:B:765:ARG:NE	2.26	0.50
1:B:1167:GLN:O	1:B:1171:LEU:HG	2.11	0.50
1:B:1366:GLY:HA3	1:B:1380:ILE:HD13	1.94	0.50
1:F:89:GLN:O	1:F:92:THR:OG1	2.27	0.50
1:F:878:LEU:O	1:F:882:LEU:HG	2.10	0.50
1:F:950:ILE:HA	1:F:953:PHE:CD1	2.46	0.50
1:F:1008:VAL:O	1:F:1012:THR:HG23	2.10	0.50
1:F:1216:SER:OG	1:F:1401:GLN:NE2	2.31	0.50
1:F:1605:ARG:O	1:F:1609:GLU:HG3	2.11	0.50
2:G:87:PRO:HD2	2:G:134:LEU:HD22	1.92	0.50
2:G:116:LYS:O	2:G:120:ARG:N	2.45	0.50
3:A:200:ARG:NH2	3:A:242:TYR:OH	2.44	0.50
3:A:271:LEU:HA	3:A:274:ILE:HG22	1.92	0.50
4:D:90:TYR:O	4:D:94:ARG:HG3	2.11	0.50
4:D:91:GLU:O	4:D:95:HIS:ND1	2.44	0.50
1:B:37:ILE:HG23	1:B:46:ARG:C	2.31	0.50
1:B:879:LEU:HD13	1:B:924:HIS:CE1	2.47	0.50
1:B:1593:ILE:O	1:B:1596:GLN:HB3	2.12	0.50
1:F:31:ILE:HG23	3:E:701:LEU:HD23	1.94	0.50
1:B:88:VAL:O	1:B:92:THR:HG23	2.11	0.50
1:B:122:TYR:O	1:B:126:GLU:HG3	2.12	0.50
1:B:304:GLY:CA	1:B:317:GLY:H	2.25	0.50
1:B:346:ILE:N	1:B:399:LEU:O	2.42	0.50
1:B:877:VAL:O	1:B:880:PRO:HD2	2.11	0.50
1:B:1079:MET:HA	1:B:1082:GLU:OE2	2.11	0.50
1:B:1336:GLU:OE2	1:B:1340:ASN:ND2	2.34	0.50
2:C:96:LYS:HD2	2:C:100:GLU:HG2	1.93	0.50
2:C:96:LYS:C	2:C:99:PRO:HD2	2.32	0.50
2:C:114:GLY:HA3	2:C:156:GLU:HG3	1.94	0.50
1:F:329:ILE:HB	1:F:332:ILE:HB	1.93	0.50
1:F:677:PHE:HD2	1:F:719:TYR:HH	1.60	0.50
1:F:847:ILE:HD13	1:F:856:LYS:HD2	1.94	0.50
1:F:1183:HIS:CG	1:F:1184:LYS:H	2.28	0.50
3:E:645:LEU:HA	3:E:651:GLN:HG3	1.93	0.50
3:A:386:TYR:O	3:A:390:HIS:N	2.40	0.50
3:A:537:LYS:HB2	3:A:694:ILE:HG21	1.93	0.50
3:A:561:CYS:HB3	3:A:574:PHE:CB	2.37	0.50
3:A:564:LYS:CE	3:A:590:ASP:HA	2.41	0.50
3:A:642:PHE:CE2	3:A:652:LEU:HB3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:ALA:HB3	1:B:262:TRP:CD1	2.47	0.50
1:B:288:ASP:HA	1:B:291:ARG:HD2	1.92	0.50
1:B:477:GLY:H	1:B:526:HIS:HE1	1.59	0.50
1:B:786:GLU:HA	1:B:789:ASN:ND2	2.27	0.50
1:B:1019:ARG:O	1:B:1023:GLN:NE2	2.41	0.50
1:B:1449:GLN:HA	1:B:1452:ASN:ND2	2.27	0.50
1:B:1545:HIS:HD2	2:C:5:LYS:HE3	1.76	0.50
1:B:1567:GLU:HA	1:B:1571:PHE:HB2	1.94	0.50
2:C:139:TYR:O	2:C:142:GLY:N	2.45	0.50
1:F:127:TRP:CH2	1:F:151:LYS:HE3	2.47	0.50
1:F:853:VAL:O	1:F:857:LEU:HG	2.10	0.50
1:F:1468:PHE:CE2	1:F:1470:LYS:HB2	2.46	0.50
2:G:39:ASN:HA	2:G:57:ASP:H	1.77	0.50
2:G:78:PHE:CE1	2:G:101:VAL:HG11	2.46	0.50
3:E:541:GLN:N	3:E:542:PRO:HD3	2.26	0.50
3:A:38:CYS:O	3:A:43:LEU:N	2.31	0.50
3:A:274:ILE:HA	3:A:277:THR:HG22	1.93	0.50
3:A:276:LEU:HB2	3:A:446:PHE:HB3	1.92	0.50
3:A:551:GLN:O	3:A:555:ARG:HD3	2.11	0.50
3:A:562:PHE:HB3	3:A:575:TRP:CZ2	2.47	0.50
4:D:72:TYR:HE2	4:D:100:GLU:HG2	1.75	0.50
1:B:102:TRP:HA	1:B:105:LEU:CG	2.42	0.50
1:B:204:ILE:HG12	1:B:211:ARG:HD3	1.92	0.50
2:C:158:SER:O	2:C:162:GLN:N	2.43	0.50
1:F:84:GLU:OE1	1:F:141:LEU:HD23	2.11	0.50
1:F:717:GLU:HA	1:F:720:ILE:HD12	1.93	0.50
1:F:1063:THR:HA	1:F:1069:ARG:HD3	1.93	0.50
1:F:1365:VAL:N	1:F:1381:PHE:O	2.34	0.50
1:F:1545:HIS:CD2	2:G:5:LYS:HG3	2.47	0.50
2:G:65:ASP:HA	2:G:68:ARG:HG2	1.92	0.50
2:G:129:LEU:HA	2:G:132:LYS:HG2	1.94	0.50
3:E:609:PRO:O	3:E:613:ILE:HG12	2.11	0.50
3:A:230:PRO:O	3:A:234:GLY:N	2.42	0.50
1:B:568:ASP:OD2	1:B:569:LEU:N	2.43	0.50
1:B:568:ASP:HB3	1:B:592:LYS:HG3	1.94	0.50
1:B:1125:ILE:HD12	1:B:1172:LEU:HA	1.94	0.50
1:F:1532:CYS:SG	1:F:1533:VAL:N	2.85	0.50
1:F:1593:ILE:O	1:F:1597:MET:HG2	2.12	0.50
3:A:120:PHE:CZ	3:A:125:GLY:HA3	2.47	0.50
1:B:923:VAL:O	1:B:926:GLN:HB3	2.12	0.50
1:F:973:ILE:HA	1:F:976:PHE:CE1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1632:LYS:HD3	1:F:1636:HIS:CD2	2.47	0.50
1:F:1633:VAL:O	1:F:1639:VAL:N	2.39	0.50
2:G:69:PRO:O	2:G:73:PRO:HD3	2.12	0.50
3:E:586:LEU:HD23	3:E:608:LEU:HB3	1.94	0.50
3:E:685:ASP:HA	3:E:688:THR:HG22	1.94	0.50
3:A:104:LEU:HD22	3:A:132:MET:HE2	1.94	0.50
4:D:36:VAL:O	4:D:37:PHE:HB3	2.11	0.50
1:B:16:ILE:HG23	3:A:706:ILE:HG13	1.93	0.50
1:B:41:TYR:CZ	3:A:717:PRO:HD3	2.47	0.50
1:B:119:GLN:HA	1:B:122:TYR:CD2	2.47	0.50
1:B:596:GLU:O	1:B:600:LEU:HG	2.12	0.50
1:B:720:ILE:HA	1:B:724:PHE:HB2	1.94	0.50
1:B:1094:LEU:HD22	1:B:1098:LYS:HG3	1.94	0.50
2:C:110:ILE:O	2:C:152:VAL:HG12	2.12	0.50
1:F:13:GLY:HA3	1:F:35:VAL:HG23	1.93	0.50
1:F:446:ILE:HG23	1:F:626:ILE:HG12	1.94	0.50
1:F:794:LEU:HG	1:F:798:PHE:CZ	2.47	0.50
1:F:1328:TYR:HB3	1:F:1338:LEU:CD2	2.42	0.50
3:A:51:LEU:HD13	3:A:75:LEU:HD13	1.92	0.50
3:A:89:HIS:HB3	3:A:123:LEU:HD21	1.94	0.50
3:A:321:ARG:HH12	3:A:366:ASN:ND2	2.10	0.50
3:A:560:THR:O	3:A:576:TYR:HA	2.12	0.50
3:A:619:GLY:HA2	3:A:641:ALA:HB3	1.92	0.50
1:B:306:MET:HA	1:B:320:ARG:HG3	1.94	0.49
1:B:713:ASN:O	1:B:717:GLU:HG2	2.12	0.49
1:B:789:ASN:O	1:B:792:ARG:N	2.45	0.49
1:B:883:THR:HG21	1:B:931:ARG:NE	2.26	0.49
1:F:30:GLN:OE1	3:E:697:ARG:NH2	2.45	0.49
1:F:45:TYR:CD2	1:F:64:ILE:HG13	2.38	0.49
1:F:809:ALA:HB1	1:F:812:ILE:HB	1.94	0.49
1:F:1392:GLU:HB2	2:G:166:LYS:HE2	1.94	0.49
1:F:1441:TYR:HE2	1:F:1450:ILE:HG21	1.75	0.49
1:B:409:ASP:CG	1:B:411:THR:HG1	2.15	0.49
1:B:1117:GLU:CD	1:B:1120:LEU:HG	2.32	0.49
1:B:1258:THR:HG21	1:B:1496:PRO:HB2	1.94	0.49
1:B:1329:GLU:HB3	1:B:1338:LEU:HD11	1.93	0.49
2:C:14:VAL:HG21	2:C:83:SER:HB2	1.94	0.49
2:C:171:GLU:HA	2:C:174:ARG:HG2	1.94	0.49
1:F:908:ASN:O	1:F:911:GLU:HG3	2.12	0.49
1:F:928:ILE:HG23	1:F:932:LEU:HD12	1.94	0.49
1:F:1489:TYR:CE1	1:F:1507:ILE:HG13	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1599:LEU:HA	1:F:1602:GLU:OE1	2.12	0.49
3:A:147:MET:HE2	3:A:151:PHE:HB2	1.95	0.49
3:A:515:LEU:HD12	3:A:516:LYS:N	2.27	0.49
3:A:641:ALA:O	3:A:662:TYR:OH	2.23	0.49
3:A:720:TYR:HB3	3:A:722:PHE:CZ	2.48	0.49
1:B:233:CYS:SG	1:B:234:ASN:N	2.86	0.49
1:B:997:ILE:HG13	1:B:998:GLY:H	1.76	0.49
1:B:1055:THR:HG22	1:B:1055:THR:O	2.12	0.49
1:B:1466:ARG:H	1:B:1484:ILE:HG23	1.77	0.49
1:B:1470:LYS:HD3	1:B:1483:TRP:CD2	2.47	0.49
1:F:562:LEU:HD11	1:F:567:HIS:CG	2.47	0.49
3:E:580:SER:HB2	3:E:587:HIS:NE2	2.28	0.49
1:B:166:ARG:HH12	1:B:168:ASP:HB2	1.77	0.49
1:B:534:ARG:NH2	1:B:541:ASP:OD2	2.46	0.49
1:B:879:LEU:HD22	1:B:924:HIS:CE1	2.47	0.49
1:B:1151:LEU:O	1:B:1155:LEU:HB2	2.13	0.49
2:C:163:ARG:C	2:C:165:LEU:H	2.15	0.49
1:F:94:THR:HG22	1:F:98:TRP:CE2	2.47	0.49
1:F:1184:LYS:HD2	1:F:1184:LYS:N	2.27	0.49
1:F:1236:ARG:HG3	1:F:1239:ILE:HG12	1.94	0.49
1:F:1368:TYR:HA	1:F:1378:ASN:HA	1.94	0.49
1:F:1416:GLU:HA	1:F:1419:LYS:HG2	1.93	0.49
1:F:1438:PRO:HB3	1:F:1454:TYR:CD2	2.46	0.49
1:F:1611:LEU:HD21	1:F:1616:LYS:HE2	1.94	0.49
3:A:222:GLU:O	3:A:227:GLN:NE2	2.45	0.49
3:A:541:GLN:N	3:A:542:PRO:HD3	2.26	0.49
1:B:44:TRP:HE3	1:B:58:ILE:HG22	1.77	0.49
1:B:197:LYS:O	1:B:200:GLU:HG2	2.12	0.49
1:B:273:LYS:O	1:B:276:ASN:N	2.45	0.49
1:B:436:ILE:HG23	1:B:711:HIS:NE2	2.28	0.49
1:B:551:PHE:CZ	1:B:585:TYR:HB2	2.47	0.49
1:B:817:LEU:HD11	1:B:855:GLN:HB3	1.94	0.49
1:B:1015:ARG:HD3	1:B:1076:TYR:CD1	2.45	0.49
1:B:1153:THR:O	1:B:1156:ASP:HB3	2.12	0.49
1:F:103:ARG:HA	1:F:106:TYR:HE1	1.77	0.49
1:F:110:LYS:O	1:F:112:THR:N	2.45	0.49
1:F:242:PHE:CD2	1:F:259:LEU:HD13	2.48	0.49
1:F:297:VAL:HG22	1:F:326:VAL:HG13	1.94	0.49
1:F:470:MET:HB2	1:F:527:ILE:CG2	2.42	0.49
1:F:993:PHE:O	1:F:997:ILE:HG12	2.12	0.49
1:F:1176:LEU:HD12	1:F:1177:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1387:GLU:HG2	1:F:1388:TYR:CD2	2.47	0.49
3:E:550:GLN:HA	3:E:553:LEU:HD12	1.94	0.49
3:A:607:LYS:HG3	3:A:609:PRO:HD3	1.95	0.49
1:B:44:TRP:NE1	3:A:714:PRO:O	2.44	0.49
1:B:517:ILE:HB	1:B:522:VAL:HB	1.93	0.49
1:B:1193:PHE:O	1:B:1196:LEU:HB2	2.12	0.49
1:B:1206:ASP:O	1:B:1209:THR:HG22	2.11	0.49
1:B:1584:GLU:O	1:B:1588:LEU:HG	2.13	0.49
1:B:1630:LYS:O	1:B:1633:VAL:HG22	2.12	0.49
1:F:471:SER:HB2	1:F:479:LEU:HD13	1.94	0.49
1:F:721:TYR:HB2	1:F:722:LYS:NZ	2.27	0.49
1:F:854:ARG:H	1:F:854:ARG:HD2	1.76	0.49
3:A:384:MET:SD	3:A:395:TYR:HE1	2.36	0.49
1:B:249:ASP:OD2	1:B:292:PRO:HB2	2.13	0.49
1:B:776:ARG:HG3	1:B:777:PHE:HD2	1.78	0.49
1:B:840:PHE:O	1:B:843:PHE:HB3	2.13	0.49
1:B:1125:ILE:N	1:B:1126:PRO:HD2	2.28	0.49
2:C:96:LYS:O	2:C:100:GLU:HG3	2.13	0.49
1:F:256:GLU:HB3	1:F:447:TYR:CE1	2.48	0.49
1:F:632:THR:HG21	1:F:637:LEU:HD23	1.95	0.49
2:G:39:ASN:OD1	2:G:56:TRP:HA	2.13	0.49
3:E:591:LEU:HD21	3:E:603:SER:HB2	1.94	0.49
3:A:244:ILE:HG21	3:A:293:GLN:HB3	1.95	0.49
3:A:387:PHE:HA	3:A:391:HIS:H	1.77	0.49
4:D:142:GLY:HA3	4:D:154:TYR:CE2	2.48	0.49
1:B:228:PHE:HB2	1:B:401:VAL:HG12	1.95	0.49
1:B:319:ARG:HD2	1:B:497:LYS:HB2	1.95	0.49
1:B:439:PRO:HG3	1:B:712:PHE:CD2	2.47	0.49
1:B:864:VAL:HG23	1:B:868:LEU:HD22	1.94	0.49
1:B:1035:GLN:HG2	1:B:1036:ALA:N	2.27	0.49
1:B:1036:ALA:C	1:B:1038:PHE:H	2.16	0.49
1:B:1136:PHE:CG	1:B:1186:LEU:HD22	2.48	0.49
1:B:1483:TRP:CE3	1:B:1511:GLU:HG3	2.48	0.49
1:B:1488:THR:N	1:B:1508:SER:O	2.32	0.49
1:F:4:TRP:HB3	1:F:39:GLU:HB3	1.95	0.49
1:F:81:ILE:HD13	1:F:141:LEU:HD21	1.95	0.49
1:F:1044:ASN:O	1:F:1048:HIS:ND1	2.45	0.49
1:F:1098:LYS:O	1:F:1102:ILE:HG13	2.12	0.49
1:F:1183:HIS:CG	1:F:1184:LYS:N	2.81	0.49
2:G:102:ARG:NH1	2:G:106:PRO:O	2.42	0.49
3:A:11:ALA:HB3	3:A:74:ILE:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:361:PHE:CE1	3:A:415:ARG:HB2	2.47	0.49
3:A:500:ASP:OD2	3:A:501:GLN:N	2.46	0.49
4:D:19:LEU:HG	4:D:169:PHE:CE2	2.48	0.49
4:D:46:VAL:CG1	4:D:174:ARG:HB3	2.42	0.49
1:B:246:TYR:CE2	1:B:387:ILE:HD11	2.48	0.49
1:B:347:PRO:HB2	1:B:392:VAL:HB	1.94	0.49
1:B:444:ASN:HA	1:B:628:SER:HA	1.94	0.49
1:B:518:ALA:HB3	1:B:521:GLU:HB2	1.95	0.49
1:B:1013:GLN:HA	1:B:1016:VAL:HG22	1.94	0.49
1:B:1300:LEU:O	1:B:1304:ILE:HG13	2.12	0.49
1:F:124:LEU:HD21	1:F:151:LYS:HB2	1.93	0.49
1:F:320:ARG:CZ	1:F:500:VAL:HB	2.43	0.49
1:F:1412:THR:OG1	1:F:1466:ARG:NE	2.46	0.49
1:F:1462:PHE:HB2	1:F:1489:TYR:HB2	1.94	0.49
1:F:1466:ARG:HG2	1:F:1485:GLU:HB2	1.95	0.49
1:F:1586:VAL:HA	1:F:1589:LEU:HD12	1.95	0.49
1:F:1617:PRO:HB2	1:F:1621:ARG:HH22	1.78	0.49
3:E:620:LYS:HD3	3:E:625:MET:HB3	1.93	0.49
1:B:11:LYS:H21	1:B:36:HIS:HB3	1.78	0.49
1:B:584:PHE:O	1:B:587:THR:OG1	2.21	0.49
1:B:745:ASP:OD1	1:B:804:ARG:NH1	2.45	0.49
1:B:942:GLY:C	1:B:944:ASN:H	2.14	0.49
1:B:1183:HIS:CG	1:B:1184:LYS:N	2.81	0.49
1:F:44:TRP:CH2	1:F:60:PRO:HG3	2.48	0.49
1:F:94:THR:HG22	1:F:98:TRP:NE1	2.28	0.49
1:F:1017:PHE:O	1:F:1021:ILE:HG12	2.13	0.49
1:F:1193:PHE:O	1:F:1197:VAL:HG23	2.13	0.49
1:F:1232:LYS:HB2	1:F:1240:TYR:CE2	2.48	0.49
1:F:1464:TYR:O	1:F:1486:ARG:HA	2.11	0.49
2:G:14:VAL:HB	2:G:16:LYS:H23	1.76	0.49
3:A:188:VAL:HG23	3:A:231:HIS:CE1	2.47	0.49
3:A:532:PRO:HG2	3:A:708:ASP:HB2	1.94	0.49
4:D:90:TYR:HE2	4:D:142:GLY:HA2	1.77	0.49
1:B:121:THR:HA	1:B:124:LEU:HD12	1.94	0.48
1:B:166:ARG:HD3	1:B:174:ASP:OD1	2.13	0.48
1:B:700:ILE:O	1:B:703:LEU:HB3	2.13	0.48
1:B:1381:PHE:HD2	1:B:1501:TRP:HD1	1.61	0.48
1:B:1563:PHE:O	1:B:1567:GLU:HG2	2.12	0.48
1:F:72:GLU:OE1	1:F:74:LEU:N	2.46	0.48
1:F:526:HIS:HB2	1:F:552:VAL:O	2.13	0.48
1:F:1019:ARG:O	1:F:1023:GLN:NE2	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:5:LYS:HE2	2:G:56:TRP:HZ2	1.78	0.48
3:E:614:LYS:HB2	3:E:645:LEU:HB2	1.95	0.48
3:A:509:LEU:HD23	3:A:514:ILE:HD11	1.94	0.48
4:D:126:LEU:O	4:D:130:LYS:HG2	2.13	0.48
1:B:228:PHE:O	1:B:277:LEU:HB2	2.13	0.48
1:B:909:ILE:O	1:B:913:LEU:HD13	2.14	0.48
1:B:1206:ASP:HA	1:B:1209:THR:HG22	1.95	0.48
2:C:39:ASN:HA	2:C:57:ASP:H	1.78	0.48
1:F:505:LYS:HD2	1:F:506:GLN:HG3	1.95	0.48
1:F:743:ASN:HB3	1:F:749:LYS:HD2	1.95	0.48
4:D:87:PRO:HD2	4:D:129:LEU:HD21	1.95	0.48
1:B:227:ASN:HB3	1:B:402:SER:OG	2.14	0.48
1:B:239:ALA:HB3	1:B:262:TRP:HB3	1.94	0.48
1:B:304:GLY:HA2	1:B:317:GLY:H	1.77	0.48
1:B:637:LEU:O	1:B:641:LEU:HG	2.13	0.48
1:B:1125:ILE:HD12	1:B:1172:LEU:HD23	1.94	0.48
1:B:1602:GLU:O	1:B:1606:ILE:HG12	2.14	0.48
1:F:224:LEU:HD23	1:F:245:LEU:HD21	1.95	0.48
1:F:1019:ARG:O	1:F:1023:GLN:HG2	2.13	0.48
1:F:1192:VAL:O	1:F:1196:LEU:HG	2.14	0.48
1:F:1206:ASP:O	1:F:1210:ILE:HG12	2.13	0.48
1:F:1488:THR:OG1	1:F:1508:SER:HB2	2.13	0.48
3:E:576:TYR:HB2	3:E:598:GLU:HA	1.96	0.48
3:E:660:HIS:CG	3:E:661:GLU:N	2.81	0.48
3:A:155:LEU:O	3:A:159:LEU:HG	2.14	0.48
3:A:303:ASN:HA	3:A:431:GLY:HA2	1.95	0.48
4:D:38:ASP:HB2	4:D:57:ASP:HB3	1.95	0.48
1:B:910:LEU:HA	1:B:913:LEU:HD22	1.94	0.48
1:B:1362:TYR:HD2	1:B:1462:PHE:CE2	2.31	0.48
2:C:89:SER:O	2:C:93:VAL:HG12	2.13	0.48
1:F:240:GLU:OE1	1:F:259:LEU:HD11	2.13	0.48
1:F:741:VAL:HG11	1:F:794:LEU:HD12	1.96	0.48
1:F:1395:SER:O	1:F:1399:LEU:HG	2.11	0.48
1:F:1435:MET:SD	1:F:1455:ARG:NE	2.87	0.48
3:A:202:LEU:HA	3:A:205:LEU:HD12	1.94	0.48
3:A:307:ASP:OD1	3:A:308:ARG:N	2.47	0.48
3:A:514:ILE:HG22	3:A:517:ILE:HD12	1.94	0.48
4:D:66:ARG:HH11	4:D:67:LEU:HB2	1.77	0.48
1:B:35:VAL:HA	1:B:49:THR:HA	1.96	0.48
1:B:239:ALA:HB3	1:B:262:TRP:HD1	1.77	0.48
1:B:570:VAL:HB	1:B:572:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:654:LEU:HD23	1:B:657:LEU:HD12	1.94	0.48
1:F:45:TYR:O	1:F:59:PHE:N	2.41	0.48
1:F:256:GLU:HB3	1:F:447:TYR:HE1	1.78	0.48
1:F:1519:ILE:O	1:F:1523:GLU:HG3	2.13	0.48
2:G:111:ILE:HG23	2:G:153:LYS:O	2.13	0.48
3:A:33:ILE:O	3:A:36:GLU:HG3	2.12	0.48
3:A:191:SER:OG	3:A:192:ALA:N	2.46	0.48
3:A:194:ASP:OD1	3:A:195:ILE:N	2.46	0.48
3:A:356:TYR:CE2	3:A:367:PRO:HB3	2.49	0.48
1:B:29:LEU:HD12	1:B:59:PHE:CE1	2.49	0.48
1:B:450:LEU:O	1:B:510:TYR:N	2.46	0.48
1:B:815:ALA:O	1:B:819:TYR:HD2	1.97	0.48
1:B:1284:GLN:NE2	1:B:1291:TYR:HE2	2.10	0.48
1:B:1399:LEU:HD11	1:B:1407:LYS:HD2	1.96	0.48
1:F:771:ARG:NH2	1:F:784:GLY:HA2	2.28	0.48
1:F:1055:THR:O	1:F:1055:THR:HG22	2.14	0.48
2:G:78:PHE:CD1	2:G:101:VAL:HG11	2.48	0.48
3:A:415:ARG:O	3:A:418:ILE:HG22	2.12	0.48
4:D:11:ASP:HB2	4:D:14:VAL:HG11	1.95	0.48
1:B:157:ARG:HB3	1:B:194:ILE:HD12	1.96	0.48
1:B:241:LEU:HD13	1:B:262:TRP:HB2	1.96	0.48
1:B:1013:GLN:O	1:B:1017:PHE:HD2	1.97	0.48
1:B:1117:GLU:OE2	1:B:1120:LEU:HG	2.13	0.48
1:B:1176:LEU:HD12	1:B:1177:LEU:N	2.29	0.48
1:B:1522:MET:HE1	1:B:1593:ILE:HA	1.95	0.48
1:F:24:ASP:N	1:F:24:ASP:OD1	2.46	0.48
1:F:31:ILE:HB	3:E:697:ARG:CB	2.44	0.48
1:F:235:ILE:HD12	1:F:262:TRP:CD1	2.48	0.48
1:F:1089:ASP:HA	1:F:1092:TYR:HD2	1.79	0.48
1:F:1390:ARG:HD3	2:G:44:VAL:HG11	1.96	0.48
1:F:1607:HIS:CD2	1:F:1619:HIS:HB2	2.48	0.48
2:G:29:PRO:HB3	2:G:160:LEU:O	2.13	0.48
3:A:150:CYS:O	3:A:154:MET:HG3	2.14	0.48
1:B:243:MET:HB2	1:B:258:TYR:HB3	1.95	0.48
1:B:555:MET:SD	1:B:559:GLY:HA2	2.54	0.48
1:B:556:ASN:HB2	1:B:558:ASP:OD1	2.14	0.48
1:B:931:ARG:HG3	1:B:932:LEU:HD12	1.94	0.48
1:B:1056:HIS:HD1	1:B:1057:GLU:CD	2.16	0.48
1:B:1091:TRP:CD1	1:B:1127:ILE:HD12	2.49	0.48
1:B:1238:ASP:HB3	1:B:1281:HIS:HB3	1.95	0.48
2:C:118:ASP:OD1	2:C:119:LEU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1576:LEU:HD22	1:F:1583:GLN:HB2	1.95	0.48
1:F:1632:LYS:HA	1:F:1636:HIS:CD2	2.48	0.48
2:G:100:GLU:HB2	2:G:104:HIS:CE1	2.46	0.48
3:A:60:TYR:CE1	3:A:110:LEU:HD11	2.49	0.48
1:B:29:LEU:HD22	1:B:33:ASP:HB3	1.95	0.48
1:B:96:ARG:NH1	3:A:696:LEU:O	2.40	0.48
1:B:224:LEU:HD23	1:B:281:PHE:CD2	2.49	0.48
1:B:593:MET:HA	1:B:596:GLU:OE2	2.14	0.48
1:B:827:VAL:HG11	1:B:836:LEU:HD13	1.96	0.48
1:F:468:VAL:O	1:F:498:SER:HB3	2.14	0.48
1:F:1177:LEU:HD22	1:F:1181:ARG:HH22	1.79	0.48
1:F:1290:VAL:HG23	1:F:1291:TYR:H	1.78	0.48
2:G:64:TYR:HB2	2:G:68:ARG:NH2	2.27	0.48
3:A:204:ILE:HG22	3:A:208:MET:CE	2.43	0.48
3:A:215:LEU:HA	3:A:218:LYS:HG3	1.96	0.48
3:A:526:GLU:HB2	3:A:531:ARG:H	1.78	0.48
3:A:575:TRP:HB3	3:A:591:LEU:O	2.14	0.48
1:B:10:GLN:OE1	1:B:10:GLN:N	2.47	0.48
1:B:414:GLN:O	1:B:418:SER:HB3	2.14	0.48
1:B:463:PRO:O	1:B:503:GLN:HA	2.14	0.48
1:B:601:GLN:HA	1:B:604:LYS:HG2	1.96	0.48
1:B:871:GLN:HB2	1:B:918:VAL:CG1	2.42	0.48
2:C:153:LYS:HG2	2:C:171:GLU:HG2	1.95	0.48
1:F:714:PRO:O	1:F:718:THR:OG1	2.22	0.48
1:F:954:VAL:HA	1:F:957:MET:HE2	1.96	0.48
1:F:979:ARG:HD3	1:F:1039:GLU:OE2	2.14	0.48
1:F:1231:TYR:O	1:F:1235:LYS:N	2.46	0.48
1:F:1328:TYR:HB3	1:F:1338:LEU:HD21	1.95	0.48
1:F:1370:GLN:OE1	1:F:1377:ARG:HD3	2.14	0.48
1:F:1627:ARG:HA	1:F:1630:LYS:HB2	1.94	0.48
1:F:1632:LYS:O	1:F:1637:TYR:N	2.37	0.48
2:G:7:VAL:O	2:G:79:LEU:N	2.41	0.48
3:E:580:SER:OG	3:E:582:ASN:OD1	2.25	0.48
3:A:477:PHE:O	3:A:481:MET:HB2	2.14	0.48
4:D:78:PHE:CD2	4:D:101:VAL:HB	2.49	0.48
1:B:239:ALA:HB1	1:B:300:ILE:HG23	1.96	0.47
1:B:342:LYS:HG2	1:B:344:HIS:NE2	2.29	0.47
1:B:345:PHE:HB2	1:B:400:TRP:CZ3	2.48	0.47
1:B:572:TYR:HB2	1:B:579:MET:HE1	1.96	0.47
1:B:934:ARG:HH12	1:B:938:ARG:N	2.12	0.47
1:B:1211:ILE:O	1:B:1212:MET:HE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1224:THR:O	1:B:1227:VAL:HG12	2.14	0.47
2:C:164:GLY:O	2:C:168:VAL:N	2.29	0.47
1:F:72:GLU:CD	1:F:75:GLY:H	2.17	0.47
1:F:1248:ARG:HH11	1:F:1252:ARG:NH1	2.08	0.47
1:F:1262:TYR:HB3	1:F:1498:ILE:HG22	1.96	0.47
3:A:216:TYR:OH	3:A:250:LEU:O	2.27	0.47
3:A:306:GLU:HA	3:A:309:MET:CG	2.37	0.47
3:A:467:TRP:CG	3:A:472:ALA:HB3	2.49	0.47
3:A:509:LEU:HD23	3:A:514:ILE:CD1	2.44	0.47
4:D:111:LEU:HD13	4:D:171:GLU:OE1	2.14	0.47
1:B:1:MET:HB3	3:A:720:TYR:CD1	2.49	0.47
1:B:1042:LEU:O	1:B:1045:ASN:HB3	2.12	0.47
1:B:1545:HIS:HD2	2:C:5:LYS:NZ	2.11	0.47
1:B:1625:CYS:HA	1:B:1628:GLU:HB3	1.96	0.47
1:B:1632:LYS:HD3	1:B:1636:HIS:ND1	2.29	0.47
1:F:172:ILE:C	1:F:175:PRO:HD2	2.34	0.47
1:F:241:LEU:HD13	1:F:262:TRP:HB2	1.96	0.47
1:F:673:LEU:HD11	1:F:716:LEU:HD22	1.96	0.47
1:F:858:ASN:O	1:F:861:THR:HB	2.14	0.47
1:F:879:LEU:HD11	1:F:928:ILE:HG12	1.96	0.47
2:G:138:THR:H	2:G:141:GLN:NE2	2.11	0.47
2:G:141:GLN:N	2:G:141:GLN:OE1	2.44	0.47
3:A:325:PHE:O	3:A:328:ARG:HG2	2.14	0.47
4:D:23:TYR:HB2	4:D:165:VAL:HG12	1.95	0.47
1:B:5:ILE:H	1:B:40:MET:N	2.12	0.47
1:B:113:LEU:O	1:B:116:GLN:HG2	2.15	0.47
1:B:223:GLY:HA2	1:B:281:PHE:O	2.14	0.47
1:B:305:HIS:HB3	1:B:314:HIS:HB2	1.95	0.47
1:B:400:TRP:HH2	4:D:127:ARG:HD2	1.78	0.47
1:B:471:SER:N	1:B:528:ARG:O	2.42	0.47
1:B:1128:PHE:HA	1:B:1131:MET:SD	2.53	0.47
1:B:1154:LYS:O	1:B:1157:GLN:N	2.47	0.47
1:B:1484:ILE:HG22	1:B:1486:ARG:HG3	1.96	0.47
1:B:1617:PRO:O	1:B:1620:GLU:HG3	2.13	0.47
1:F:248:PRO:HG2	1:F:293:ARG:NE	2.28	0.47
1:F:852:LEU:O	1:F:856:LYS:HG2	2.15	0.47
1:F:1626:PHE:O	1:F:1629:LEU:HG	2.14	0.47
3:A:52:GLN:NE2	3:A:76:ARG:HH21	2.12	0.47
3:A:356:TYR:CD1	3:A:359:LEU:HD12	2.49	0.47
3:A:505:LYS:O	3:A:509:LEU:HG	2.14	0.47
4:D:142:GLY:HA3	4:D:154:TYR:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:11:LYS:NZ	1:B:36:HIS:HB3	2.28	0.47
1:B:300:ILE:O	1:B:322:PHE:HB3	2.14	0.47
1:B:330:THR:HG22	1:B:334:HIS:HE1	1.78	0.47
1:B:926:GLN:O	1:B:929:MET:HB3	2.14	0.47
1:B:1231:TYR:CE2	1:B:1243:TYR:HE2	2.26	0.47
1:F:749:LYS:HG3	1:F:752:LEU:HB2	1.95	0.47
1:F:796:LEU:HA	1:F:799:ASN:HD22	1.80	0.47
1:F:814:GLY:O	1:F:817:LEU:HG	2.14	0.47
1:F:887:SER:O	1:F:890:LEU:HB3	2.15	0.47
1:F:1273:TRP:CD2	1:F:1297:LYS:HD3	2.50	0.47
1:F:1407:LYS:HG3	1:F:1426:MET:SD	2.55	0.47
1:F:1438:PRO:HB2	1:F:1441:TYR:CB	2.44	0.47
2:G:163:ARG:C	2:G:165:LEU:H	2.17	0.47
3:A:11:ALA:HA	3:A:21:LEU:HD11	1.95	0.47
3:A:167:ASP:OD1	3:A:168:HIS:N	2.48	0.47
3:A:412:PRO:HB2	3:A:415:ARG:HB3	1.96	0.47
1:B:5:ILE:HB	1:B:40:MET:HB3	1.96	0.47
1:B:13:GLY:O	1:B:35:VAL:N	2.35	0.47
1:B:137:PRO:HB2	1:B:140:GLU:OE1	2.14	0.47
1:B:263:GLY:N	1:B:267:MET:O	2.30	0.47
1:B:467:GLU:OE1	1:B:534:ARG:NH1	2.48	0.47
1:B:591:THR:O	1:B:595:MET:HG3	2.14	0.47
1:B:669:LEU:O	1:B:673:LEU:HG	2.14	0.47
1:B:954:VAL:O	1:B:958:ILE:HG12	2.14	0.47
1:B:1327:THR:HA	1:B:1331:LYS:NZ	2.30	0.47
1:B:1372:PHE:HB3	1:B:1376:LEU:HB2	1.95	0.47
1:B:1597:MET:O	1:B:1601:THR:OG1	2.19	0.47
1:B:1617:PRO:HA	1:B:1620:GLU:HG3	1.95	0.47
1:F:875:ARG:HG2	1:F:924:HIS:NE2	2.29	0.47
1:F:1145:HIS:O	1:F:1148:GLU:HG3	2.15	0.47
1:F:1380:ILE:HB	1:F:1504:VAL:HG12	1.96	0.47
2:G:118:ASP:OD1	2:G:118:ASP:N	2.48	0.47
3:E:576:TYR:CB	3:E:598:GLU:HA	2.44	0.47
3:A:265:ILE:HA	3:A:268:GLN:HG2	1.96	0.47
3:A:529:GLN:CG	3:A:534:LEU:HD11	2.43	0.47
4:D:78:PHE:CE2	4:D:105:CYS:HB2	2.41	0.47
1:B:225:TYR:OH	1:B:278:GLN:NE2	2.41	0.47
1:B:226:VAL:O	1:B:278:GLN:HG2	2.14	0.47
1:B:593:MET:HA	1:B:596:GLU:CD	2.34	0.47
1:B:800:MET:O	1:B:804:ARG:HG3	2.14	0.47
1:B:1033:MET:H	1:B:1035:GLN:NE2	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1410:SER:O	1:B:1413:PRO:HD2	2.15	0.47
2:C:17:THR:OG1	2:C:18:CYS:N	2.46	0.47
1:F:549:VAL:N	1:F:572:TYR:O	2.44	0.47
1:F:1028:LEU:HD12	1:F:1043:TRP:CH2	2.49	0.47
1:F:1303:GLU:O	1:F:1306:SER:HB2	2.15	0.47
1:F:1360:PRO:HG2	1:F:1362:TYR:HE1	1.80	0.47
3:E:531:ARG:HD3	3:E:532:PRO:HD3	1.95	0.47
3:E:690:LEU:O	3:E:694:ILE:HG12	2.15	0.47
3:A:26:GLN:NE2	3:A:66:ARG:O	2.48	0.47
3:A:127:SER:O	3:A:130:THR:HB	2.13	0.47
3:A:588:TYR:HE1	3:A:608:LEU:HB2	1.79	0.47
3:A:599:VAL:HG23	3:A:601:HIS:HD2	1.78	0.47
3:A:617:VAL:HG23	3:A:643:SER:HB2	1.96	0.47
3:A:673:LEU:HB3	3:A:675:LYS:NZ	2.30	0.47
1:B:48:TYR:HA	1:B:55:LYS:O	2.15	0.47
1:B:179:SER:OG	1:B:182:ALA:HB3	2.14	0.47
1:B:258:TYR:HA	1:B:488:ALA:HB3	1.97	0.47
1:B:394:HIS:HD1	1:B:394:HIS:H	1.61	0.47
1:B:442:VAL:HA	1:B:629:THR:OG1	2.14	0.47
1:B:806:LEU:HG	1:B:810:VAL:HB	1.96	0.47
1:B:932:LEU:N	1:B:935:ARG:HH21	2.12	0.47
1:B:1009:MET:O	1:B:1012:THR:OG1	2.25	0.47
1:B:1117:GLU:OE2	1:B:1120:LEU:N	2.48	0.47
1:B:1144:PHE:O	1:B:1147:PHE:HB3	2.14	0.47
1:B:1156:ASP:OD2	1:B:1242:ARG:NH2	2.39	0.47
1:F:220:HIS:CE1	1:F:286:SER:HB3	2.50	0.47
1:F:228:PHE:HE2	1:F:399:LEU:HB2	1.79	0.47
1:F:293:ARG:HH21	1:F:295:SER:HB3	1.80	0.47
1:F:351:ILE:HG12	1:F:382:VAL:HG11	1.95	0.47
1:F:810:VAL:HG23	1:F:852:LEU:HD11	1.96	0.47
1:F:882:LEU:HA	1:F:885:GLN:NE2	2.30	0.47
1:F:1174:LYS:HE2	1:F:1174:LYS:HB3	1.62	0.47
1:F:1529:ILE:O	1:F:1533:VAL:HG23	2.15	0.47
1:F:1536:HIS:CD2	1:F:1542:LEU:HB3	2.50	0.47
3:A:104:LEU:HD21	3:A:158:THR:N	2.30	0.47
3:A:189:ASN:HA	3:A:227:GLN:OE1	2.14	0.47
3:A:588:TYR:CE1	3:A:608:LEU:HB2	2.50	0.47
4:D:18:CYS:HA	4:D:29:PRO:HG2	1.97	0.47
1:B:32:GLY:HA2	3:A:700:ASP:HB2	1.96	0.47
1:B:44:TRP:CE3	1:B:58:ILE:HG22	2.50	0.47
1:B:696:ALA:O	1:B:700:ILE:HG13	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:783:ASP:O	1:B:786:GLU:HG3	2.13	0.47
1:B:1470:LYS:HD3	1:B:1483:TRP:CG	2.50	0.47
2:C:29:PRO:HG3	2:C:162:GLN:CD	2.35	0.47
1:F:30:GLN:HB3	3:E:697:ARG:HE	1.80	0.47
1:F:915:ARG:HE	1:F:916:LYS:H	1.63	0.47
1:F:943:MET:HG3	1:F:950:ILE:HD12	1.96	0.47
1:F:1279:VAL:HB	1:F:1281:HIS:ND1	2.30	0.47
2:G:63:ASP:OD1	2:G:63:ASP:N	2.47	0.47
2:G:113:VAL:HA	2:G:155:LEU:O	2.15	0.47
2:G:157:CYS:HB2	2:G:163:ARG:O	2.15	0.47
3:A:334:ALA:HB3	3:A:400:LEU:HD21	1.96	0.47
3:A:428:LEU:HD21	3:A:455:PHE:CZ	2.50	0.47
3:A:537:LYS:HB2	3:A:694:ILE:HD13	1.95	0.47
1:B:94:THR:HG22	1:B:98:TRP:CE2	2.50	0.47
1:B:717:GLU:O	1:B:721:TYR:HD2	1.97	0.47
1:B:1027:VAL:HG13	1:B:1028:LEU:HD22	1.96	0.47
1:B:1186:LEU:HD12	1:B:1189:SER:HB2	1.96	0.47
1:B:1394:PHE:HD2	1:B:1428:CYS:HG	1.63	0.47
1:B:1483:TRP:NE1	1:B:1514:PRO:HD3	2.29	0.47
1:B:1623:SER:HB3	1:B:1627:ARG:NH1	2.30	0.47
1:F:754:PHE:CD1	1:F:811:LYS:HD3	2.50	0.47
1:F:969:TYR:CG	1:F:1023:GLN:HG3	2.50	0.47
1:F:1166:GLU:HA	1:F:1169:LYS:CE	2.44	0.47
1:F:1209:THR:O	1:F:1213:GLN:HB3	2.14	0.47
1:F:1230:PHE:O	1:F:1234:LYS:HG2	2.15	0.47
1:F:1248:ARG:NH1	1:F:1252:ARG:HH22	2.13	0.47
1:F:1276:LYS:HD2	1:F:1277:PRO:HD2	1.97	0.47
2:G:151:ALA:O	2:G:153:LYS:N	2.48	0.47
3:A:202:LEU:HB3	3:A:242:TYR:HB3	1.97	0.47
3:A:576:TYR:HB2	3:A:598:GLU:CG	2.44	0.47
3:A:695:LYS:O	3:A:698:LEU:HG	2.14	0.47
1:B:226:VAL:HG22	1:B:403:LEU:HD22	1.97	0.47
1:B:406:LEU:HD11	1:B:420:LEU:HD12	1.97	0.47
1:B:741:VAL:HG21	1:B:798:PHE:CD1	2.49	0.47
1:B:1232:LYS:HB2	1:B:1240:TYR:CE2	2.49	0.47
2:C:43:ASN:HA	2:C:52:ASN:HA	1.96	0.47
1:F:329:ILE:O	1:F:333:ILE:N	2.39	0.47
1:F:658:MET:N	1:F:658:MET:SD	2.88	0.47
1:F:883:THR:OG1	1:F:931:ARG:NH2	2.48	0.47
1:F:926:GLN:HE21	1:F:930:GLU:CD	2.14	0.47
1:F:1033:MET:HB2	1:F:1035:GLN:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:42:ALA:O	2:G:53:LEU:HG	2.15	0.47
3:E:642:PHE:CZ	3:E:654:PHE:HB2	2.50	0.47
3:E:695:LYS:HG2	3:E:698:LEU:HD21	1.96	0.47
3:A:448:HIS:HB2	3:A:499:LEU:HD21	1.96	0.47
4:D:126:LEU:HD23	4:D:136:PRO:HG2	1.96	0.47
1:B:4:TRP:CE2	1:B:46:ARG:HD3	2.50	0.46
1:B:10:GLN:NE2	1:B:40:MET:HB2	2.30	0.46
1:B:141:LEU:O	1:B:145:LYS:HG3	2.15	0.46
1:B:222:TYR:HB2	1:B:284:LEU:HB2	1.97	0.46
1:B:306:MET:HG3	1:B:318:LEU:HD13	1.97	0.46
1:B:318:LEU:HB3	1:B:320:ARG:NH1	2.30	0.46
1:B:860:MET:HG3	1:B:905:LEU:HD11	1.97	0.46
1:B:1117:GLU:OE1	1:B:1118:VAL:N	2.48	0.46
1:B:1367:TYR:HB2	1:B:1376:LEU:O	2.15	0.46
1:B:1391:ARG:NH2	2:C:29:PRO:HD3	2.29	0.46
1:B:1408:MET:N	1:B:1426:MET:O	2.37	0.46
2:C:137:ILE:HG23	2:C:141:GLN:CG	2.45	0.46
1:F:866:SER:C	1:F:868:LEU:H	2.19	0.46
1:F:945:ARG:HH11	1:F:946:GLN:H	1.63	0.46
1:F:1114:LEU:HD23	1:F:1168:TYR:CE1	2.50	0.46
1:F:1329:GLU:HB3	1:F:1338:LEU:HD11	1.97	0.46
1:F:1451:LEU:HB3	1:F:1455:ARG:NH2	2.27	0.46
3:A:157:PHE:O	3:A:160:THR:OG1	2.28	0.46
3:A:295:TYR:CZ	3:A:438:CYS:HB2	2.49	0.46
3:A:692:MET:O	3:A:695:LYS:HB3	2.15	0.46
1:B:457:LYS:HD3	1:B:505:LYS:HD2	1.98	0.46
1:B:466:VAL:O	1:B:500:VAL:HA	2.14	0.46
1:B:1404:ASN:HB2	1:B:1406:GLU:OE2	2.14	0.46
1:F:106:TYR:HA	1:F:111:LEU:HD11	1.96	0.46
1:F:163:LEU:HD13	1:F:1005:ASP:O	2.14	0.46
1:F:193:ARG:HA	1:F:196:GLU:CD	2.36	0.46
1:F:332:ILE:CG2	1:F:403:LEU:HB3	2.45	0.46
1:F:842:LYS:O	1:F:846:SER:N	2.46	0.46
1:F:866:SER:OG	1:F:867:THR:HG23	2.15	0.46
1:F:915:ARG:HE	1:F:916:LYS:N	2.13	0.46
1:F:1206:ASP:O	1:F:1209:THR:HG22	2.15	0.46
1:F:1506:GLN:HE22	1:F:1508:SER:HG	1.54	0.46
3:E:562:PHE:HB2	3:E:575:TRP:CZ2	2.49	0.46
3:E:613:ILE:HA	3:E:645:LEU:O	2.15	0.46
3:A:555:ARG:HA	3:A:558:GLU:HG3	1.97	0.46
4:D:14:VAL:HA	4:D:83:SER:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:ILE:O	1:B:105:LEU:HG	2.15	0.46
1:B:109:ASN:HA	1:B:111:LEU:HG	1.97	0.46
1:B:143:GLU:HA	1:B:146:LYS:HE2	1.98	0.46
1:B:246:TYR:HE2	1:B:387:ILE:HD11	1.81	0.46
1:B:410:LEU:O	1:B:414:GLN:HB2	2.16	0.46
1:B:478:LYS:HB3	1:B:478:LYS:HE3	1.77	0.46
1:F:228:PHE:HA	1:F:401:VAL:HG12	1.97	0.46
1:F:716:LEU:O	1:F:720:ILE:HG13	2.16	0.46
1:F:821:PRO:O	1:F:824:ILE:HG12	2.16	0.46
1:F:1362:TYR:HD2	1:F:1462:PHE:CE2	2.29	0.46
1:F:1575:TYR:O	1:F:1579:HIS:N	2.32	0.46
2:G:8:VAL:HA	2:G:79:LEU:O	2.16	0.46
2:G:114:GLY:N	2:G:155:LEU:O	2.37	0.46
3:E:695:LYS:O	3:E:698:LEU:HG	2.16	0.46
3:A:423:MET:HG2	3:A:481:MET:HE2	1.96	0.46
4:D:129:LEU:HD12	4:D:136:PRO:HG3	1.96	0.46
1:B:634:ASN:O	1:B:638:LEU:HD23	2.15	0.46
1:B:795:PHE:CZ	1:B:843:PHE:HB2	2.50	0.46
1:B:853:VAL:HA	1:B:856:LYS:HG2	1.97	0.46
1:B:1256:ASN:OD1	1:B:1500:LYS:HE2	2.15	0.46
1:B:1318:ILE:O	1:B:1322:LYS:HG2	2.15	0.46
1:B:1433:PRO:HA	1:B:1462:PHE:CD2	2.50	0.46
1:F:320:ARG:NH1	1:F:500:VAL:HB	2.31	0.46
1:F:485:HIS:O	1:F:514:LYS:N	2.47	0.46
1:F:713:ASN:HA	1:F:716:LEU:HD12	1.97	0.46
1:F:1114:LEU:HA	1:F:1168:TYR:CZ	2.51	0.46
1:F:1519:ILE:HG13	1:F:1589:LEU:HD21	1.97	0.46
1:F:1545:HIS:N	1:F:1546:PRO:HD2	2.31	0.46
3:E:693:GLU:OE2	3:E:697:ARG:HD3	2.14	0.46
3:A:225:ILE:HG21	3:A:265:ILE:CG2	2.46	0.46
3:A:479:LYS:O	3:A:483:VAL:HG23	2.16	0.46
3:A:613:ILE:HA	3:A:645:LEU:O	2.16	0.46
4:D:119:LEU:HB3	4:D:125:THR:OG1	2.16	0.46
1:B:182:ALA:HA	1:B:185:LYS:HG2	1.97	0.46
1:B:256:GLU:OE1	1:B:429:ARG:N	2.30	0.46
1:B:469:THR:HG23	1:B:497:LYS:HD3	1.97	0.46
1:B:823:ILE:O	1:B:827:VAL:HG23	2.16	0.46
1:B:933:LEU:HD21	1:B:960:LEU:HD22	1.98	0.46
1:B:1299:LYS:HA	1:B:1302:GLN:OE1	2.16	0.46
1:B:1466:ARG:O	1:B:1484:ILE:HA	2.16	0.46
1:B:1632:LYS:O	1:B:1637:TYR:N	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:87:LEU:O	1:F:90:GLU:HG3	2.16	0.46
1:F:88:VAL:CG2	1:F:128:ARG:HG2	2.46	0.46
1:F:230:ASN:ND2	1:F:268:PRO:HD3	2.31	0.46
1:F:601:GLN:HA	1:F:604:LYS:HG2	1.97	0.46
1:F:833:PRO:HD2	1:F:873:GLU:OE2	2.15	0.46
1:F:1495:PHE:HZ	1:F:1502:PHE:HB2	1.81	0.46
1:F:1607:HIS:HE2	1:F:1619:HIS:HB2	1.79	0.46
3:A:79:THR:OG1	3:A:84:ASN:OD1	2.33	0.46
3:A:679:SER:O	3:A:682:THR:HB	2.16	0.46
4:D:84:ILE:HG12	4:D:137:ILE:HB	1.98	0.46
1:B:1189:SER:O	1:B:1192:VAL:HG22	2.15	0.46
1:B:1268:ALA:HA	1:B:1271:LEU:HD13	1.98	0.46
2:C:129:LEU:O	2:C:134:LEU:N	2.48	0.46
1:F:5:ILE:H	1:F:40:MET:N	2.06	0.46
1:F:181:ILE:HD11	1:F:955:ALA:O	2.16	0.46
1:F:306:MET:H	1:F:314:HIS:CB	2.27	0.46
1:F:669:LEU:HD12	1:F:670:GLN:N	2.30	0.46
1:F:1132:MET:O	1:F:1135:GLU:HB2	2.16	0.46
1:F:1602:GLU:HA	1:F:1605:ARG:HG2	1.98	0.46
4:D:115:THR:HG22	4:D:157:CYS:SG	2.56	0.46
1:B:448:VAL:HB	1:B:513:VAL:HG23	1.97	0.46
1:B:1003:ALA:H	1:B:1006:TRP:HZ3	1.58	0.46
1:B:1034:ASP:HA	1:B:1037:SER:HA	1.96	0.46
1:B:1175:LEU:HB3	1:B:1179:HIS:CE1	2.51	0.46
1:B:1256:ASN:O	1:B:1259:GLU:N	2.48	0.46
1:B:1363:PHE:O	1:B:1382:ILE:HD12	2.15	0.46
1:B:1451:LEU:HG	1:B:1455:ARG:HH12	1.81	0.46
1:B:1491:THR:HA	1:B:1505:LYS:H	1.80	0.46
1:F:329:ILE:HA	1:F:332:ILE:HD12	1.98	0.46
1:F:646:ASN:ND2	1:F:649:ASN:HB2	2.31	0.46
1:F:668:PHE:O	1:F:672:THR:N	2.38	0.46
1:F:800:MET:O	1:F:804:ARG:N	2.47	0.46
3:E:694:ILE:HA	3:E:697:ARG:HG2	1.97	0.46
1:B:65:HIS:HE1	1:B:67:LYS:HD2	1.81	0.46
1:B:306:MET:O	1:B:320:ARG:HG3	2.15	0.46
1:B:378:PRO:HB3	1:B:508:CYS:SG	2.55	0.46
1:B:527:ILE:HB	1:B:552:VAL:HG12	1.96	0.46
1:B:928:ILE:O	1:B:932:LEU:HB2	2.15	0.46
1:F:197:LYS:HA	1:F:200:GLU:HG2	1.96	0.46
1:F:651:LYS:HD2	1:F:655:LYS:HE3	1.96	0.46
1:F:956:CYS:O	1:F:960:LEU:HG	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1201:LEU:O	1:F:1205:LEU:HD23	2.16	0.46
2:G:35:THR:OG1	2:G:40:TYR:OH	2.34	0.46
3:E:551:GLN:O	3:E:555:ARG:HD3	2.16	0.46
3:E:720:TYR:HB3	3:E:722:PHE:CE1	2.50	0.46
3:A:359:LEU:O	3:A:412:PRO:HB3	2.16	0.46
3:A:458:ILE:HD11	3:A:503:LYS:HA	1.98	0.46
1:B:19:TYR:HB3	1:B:27:LEU:O	2.15	0.46
1:B:107:VAL:HA	3:A:555:ARG:HH12	1.81	0.46
1:B:222:TYR:HD1	1:B:407:PRO:HA	1.80	0.46
1:B:1035:GLN:HG2	1:B:1036:ALA:H	1.81	0.46
1:B:1623:SER:HB3	1:B:1627:ARG:CZ	2.46	0.46
1:F:96:ARG:O	1:F:99:ALA:HB3	2.16	0.46
1:F:246:TYR:HB3	1:F:297:VAL:HG21	1.98	0.46
1:F:1068:LYS:O	1:F:1072:ILE:HG12	2.15	0.46
1:F:1557:PRO:HG2	1:F:1561:GLY:HA2	1.97	0.46
2:G:47:ASP:O	2:G:49:LYS:N	2.43	0.46
3:A:37:VAL:HG12	3:A:77:LEU:HD22	1.97	0.46
1:B:13:GLY:O	1:B:34:THR:HA	2.16	0.46
1:B:242:PHE:O	1:B:298:CYS:HA	2.15	0.46
1:B:325:ALA:HB2	1:B:348:PHE:HD1	1.80	0.46
1:B:640:LEU:HD11	1:B:657:LEU:HD21	1.98	0.46
1:B:940:VAL:HG13	1:B:992:MET:CE	2.46	0.46
1:B:1156:ASP:O	1:B:1160:GLU:HG3	2.16	0.46
1:B:1165:ASP:HB3	1:B:1167:GLN:CD	2.36	0.46
1:B:1358:PRO:HB2	1:B:1387:GLU:HB2	1.98	0.46
1:B:1545:HIS:HD2	2:C:5:LYS:CE	2.27	0.46
1:F:860:MET:O	1:F:864:VAL:HG12	2.16	0.46
1:F:1617:PRO:O	1:F:1620:GLU:HG3	2.16	0.46
3:E:634:ASN:O	3:E:637:VAL:HG22	2.16	0.46
3:A:545:LEU:HD12	3:A:546:GLU:N	2.31	0.46
3:A:576:TYR:HB2	3:A:598:GLU:HG2	1.97	0.46
4:D:78:PHE:CE2	4:D:101:VAL:HB	2.51	0.46
1:B:89:GLN:O	1:B:92:THR:OG1	2.22	0.45
1:B:128:ARG:NH1	1:B:132:LEU:HD21	2.31	0.45
1:B:651:LYS:HB2	1:B:655:LYS:HE3	1.97	0.45
1:B:757:LEU:HD13	1:B:760:LEU:HD11	1.98	0.45
1:B:1105:MET:O	1:B:1108:PRO:HD2	2.15	0.45
1:B:1193:PHE:HA	1:B:1196:LEU:HD12	1.97	0.45
1:B:1386:LYS:HD3	1:B:1386:LYS:HA	1.79	0.45
1:B:1575:TYR:O	1:B:1579:HIS:N	2.27	0.45
1:F:31:ILE:HG21	3:E:698:LEU:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:764:PHE:CE1	1:F:826:ASP:HB2	2.51	0.45
1:F:879:LEU:HD21	1:F:931:ARG:HH12	1.82	0.45
1:F:1283:LEU:HB3	1:F:1288:TYR:CD1	2.51	0.45
1:F:1535:GLN:OE1	1:F:1542:LEU:HD11	2.16	0.45
3:A:240:GLN:HA	3:A:243:THR:HG22	1.97	0.45
3:A:328:ARG:NE	3:A:329:ARG:HH21	2.11	0.45
3:A:526:GLU:CB	3:A:531:ARG:H	2.29	0.45
4:D:98:HIS:HA	4:D:101:VAL:HG22	1.99	0.45
1:B:25:VAL:HG23	1:B:57:GLY:HA2	1.97	0.45
1:B:901:ALA:HA	1:B:904:GLN:NE2	2.32	0.45
1:B:914:ASP:HB2	1:B:963:GLN:NE2	2.31	0.45
1:B:1068:LYS:O	1:B:1072:ILE:HG12	2.15	0.45
1:B:1610:LYS:HD2	1:B:1610:LYS:N	2.31	0.45
2:C:80:ILE:HD11	2:C:97:TRP:HB3	1.97	0.45
2:C:87:PRO:O	2:C:90:PHE:HB2	2.16	0.45
1:F:1218:GLU:O	1:F:1221:MET:HB2	2.16	0.45
1:F:1478:GLU:OE2	1:F:1478:GLU:N	2.41	0.45
1:F:1504:VAL:HG22	1:F:1506:GLN:H	1.81	0.45
3:A:82:ALA:HB2	3:A:119:GLU:HG2	1.98	0.45
3:A:223:ILE:HD13	3:A:246:VAL:CG1	2.46	0.45
3:A:523:MET:O	3:A:526:GLU:HG2	2.16	0.45
3:A:591:LEU:HD21	3:A:603:SER:HB2	1.97	0.45
3:A:613:ILE:HD12	3:A:644:ILE:HG22	1.97	0.45
1:B:382:VAL:O	1:B:386:VAL:HG23	2.17	0.45
1:B:532:ARG:NH1	1:B:541:ASP:O	2.46	0.45
1:B:934:ARG:HH12	1:B:938:ARG:H	1.64	0.45
1:B:934:ARG:HB3	1:B:935:ARG:NH1	2.31	0.45
1:B:1292:THR:O	1:B:1295:GLU:N	2.48	0.45
1:B:1390:ARG:HB2	2:C:166:LYS:NZ	2.31	0.45
1:B:1518:ALA:HB1	1:B:1566:TYR:CE1	2.50	0.45
2:C:97:TRP:O	2:C:101:VAL:HG22	2.16	0.45
1:F:3:ARG:HA	3:E:723:VAL:HG23	1.98	0.45
1:F:198:ILE:HG13	1:F:202:LYS:HZ3	1.81	0.45
1:F:258:TYR:CE2	1:F:279:ALA:HB2	2.52	0.45
1:F:717:GLU:O	1:F:721:TYR:HD2	1.99	0.45
1:F:932:LEU:O	1:F:936:ILE:HG22	2.17	0.45
1:F:1220:ARG:HA	1:F:1223:CYS:SG	2.56	0.45
1:F:1238:ASP:HA	1:F:1241:ILE:HD12	1.98	0.45
1:F:1277:PRO:HA	1:F:1293:GLN:HG3	1.98	0.45
1:F:1444:LYS:O	1:F:1446:VAL:N	2.44	0.45
2:G:40:TYR:C	2:G:55:LEU:HB2	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:11:ALA:HB3	3:A:74:ILE:HA	1.97	0.45
3:A:72:GLY:HA2	4:D:36:VAL:HG11	1.98	0.45
3:A:96:SER:OG	3:A:99:ALA:HB3	2.16	0.45
3:A:104:LEU:HD11	3:A:158:THR:HA	1.97	0.45
3:A:113:ASP:OD1	3:A:115:THR:OG1	2.32	0.45
3:A:140:TYR:HD1	3:A:144:GLN:HB3	1.81	0.45
3:A:299:VAL:HA	3:A:302:PHE:HB2	1.98	0.45
3:A:420:LEU:HD22	3:A:459:CYS:SG	2.57	0.45
3:A:685:ASP:O	3:A:689:LEU:HG	2.15	0.45
4:D:72:TYR:CZ	4:D:101:VAL:HG12	2.50	0.45
1:B:127:TRP:CE3	1:B:148:VAL:HG12	2.52	0.45
1:B:883:THR:HA	1:B:886:LEU:HG	1.97	0.45
1:B:891:ASP:OD1	1:B:938:ARG:NH2	2.46	0.45
1:B:892:ASP:H	1:B:895:ASN:CG	2.19	0.45
1:B:1262:TYR:HE2	1:B:1496:PRO:O	1.98	0.45
1:B:1324:LEU:HB3	1:B:1341:LEU:HD21	1.99	0.45
1:F:11:LYS:NZ	1:F:38:LEU:HD22	2.32	0.45
1:F:40:MET:HE1	1:F:45:TYR:HE1	1.81	0.45
1:F:757:LEU:HD12	1:F:819:TYR:HB2	1.98	0.45
1:F:795:PHE:HA	1:F:798:PHE:CD2	2.52	0.45
1:F:940:VAL:HG13	1:F:992:MET:HE2	1.98	0.45
1:F:969:TYR:CD1	1:F:1023:GLN:HG3	2.51	0.45
1:F:1013:GLN:HA	1:F:1016:VAL:HG22	1.97	0.45
1:F:1127:ILE:HG22	1:F:1131:MET:HE3	1.97	0.45
1:F:1628:GLU:O	1:F:1631:GLU:HG3	2.17	0.45
3:E:561:CYS:SG	3:E:597:GLY:HA2	2.56	0.45
3:A:166:MET:HB3	3:A:173:TRP:CZ3	2.50	0.45
3:A:180:PHE:HE1	3:A:204:ILE:HD13	1.82	0.45
3:A:472:ALA:HB1	3:A:480:VAL:HG11	1.98	0.45
3:A:580:SER:HB3	3:A:585:VAL:HG13	1.99	0.45
4:D:4:ILE:HG23	4:D:76:ASN:HB2	1.98	0.45
1:B:35:VAL:O	1:B:37:ILE:HG13	2.16	0.45
1:B:285:SER:H	1:B:288:ASP:CB	2.23	0.45
1:B:384:ASN:HA	1:B:387:ILE:HD12	1.98	0.45
1:B:871:GLN:CG	1:B:875:ARG:HD3	2.43	0.45
1:B:1115:THR:HA	1:B:1163:ARG:HH21	1.81	0.45
1:B:1516:GLU:HA	1:B:1519:ILE:HD12	1.98	0.45
1:B:1557:PRO:HB2	1:B:1560:MET:O	2.17	0.45
1:B:1557:PRO:HD3	1:B:1563:PHE:HE2	1.82	0.45
2:C:82:PHE:CD1	2:C:112:LEU:HD11	2.51	0.45
1:F:166:ARG:HH21	1:F:169:ASN:ND2	2.11	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:179:SER:OG	1:F:182:ALA:HB3	2.17	0.45
1:F:338:ASP:OD1	1:F:338:ASP:N	2.45	0.45
1:F:451:ILE:HD12	1:F:621:GLN:HG2	1.99	0.45
1:F:501:TYR:CE2	1:F:509:TRP:HD1	2.34	0.45
1:F:1015:ARG:HG3	1:F:1079:MET:HE2	1.98	0.45
1:F:1145:HIS:HA	1:F:1148:GLU:HG3	1.98	0.45
1:F:1596:GLN:O	1:F:1600:LEU:HG	2.17	0.45
1:B:237:GLU:C	1:B:264:SER:HA	2.37	0.45
1:B:263:GLY:HA3	1:B:267:MET:SD	2.56	0.45
1:B:649:ASN:O	1:B:653:ASN:N	2.28	0.45
1:B:1519:ILE:HG23	1:B:1592:LEU:HD11	1.99	0.45
1:F:91:LEU:O	1:F:95:LEU:HG	2.16	0.45
1:F:285:SER:N	1:F:288:ASP:OD2	2.30	0.45
1:F:331:ASP:HB2	1:F:336:LYS:HB2	1.98	0.45
1:F:345:PHE:HZ	1:F:394:HIS:CD2	2.35	0.45
1:F:718:THR:O	1:F:722:LYS:HB2	2.17	0.45
1:F:743:ASN:O	1:F:749:LYS:HD2	2.16	0.45
1:F:871:GLN:NE2	1:F:875:ARG:HD3	2.31	0.45
1:F:1237:GLU:O	1:F:1240:TYR:HB3	2.17	0.45
1:F:1249:ASP:HA	1:F:1252:ARG:NH2	2.32	0.45
1:F:1292:THR:HG23	1:F:1295:GLU:H	1.82	0.45
2:G:5:LYS:HD2	2:G:74:GLN:O	2.15	0.45
3:E:531:ARG:O	3:E:535:GLU:HG3	2.17	0.45
3:E:581:PRO:HA	3:E:583:HIS:CE1	2.52	0.45
3:E:688:THR:O	3:E:691:SER:OG	2.27	0.45
3:A:86:GLN:HA	3:A:89:HIS:ND1	2.32	0.45
3:A:141:GLN:HA	3:A:144:GLN:CG	2.46	0.45
3:A:419:GLU:OE1	3:A:481:MET:HG2	2.16	0.45
1:B:1082:GLU:O	1:B:1086:ARG:HG2	2.16	0.45
1:B:1190:GLY:HA2	1:B:1193:PHE:CD2	2.51	0.45
2:C:3:ALA:HA	2:C:52:ASN:O	2.17	0.45
2:C:61:GLN:HB3	2:C:64:TYR:CD1	2.51	0.45
1:F:333:ILE:HG13	1:F:334:HIS:N	2.32	0.45
1:F:797:ALA:O	1:F:801:LEU:HG	2.17	0.45
1:F:1361:GLU:C	1:F:1362:TYR:HD1	2.20	0.45
3:E:564:LYS:HG3	3:E:575:TRP:CE2	2.51	0.45
3:A:41:TRP:HD1	3:A:43:LEU:HD21	1.82	0.45
3:A:166:MET:HE2	3:A:171:VAL:HG13	1.97	0.45
3:A:328:ARG:O	3:A:332:PHE:HB2	2.17	0.45
3:A:514:ILE:HA	3:A:517:ILE:HD12	1.99	0.45
3:A:659:LYS:O	3:A:662:TYR:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:18:CYS:HA	4:D:29:PRO:HD2	1.98	0.45
4:D:27:ALA:O	4:D:29:PRO:HD3	2.17	0.45
4:D:37:PHE:HB2	4:D:58:THR:HA	1.97	0.45
1:B:99:ALA:HA	1:B:102:TRP:NE1	2.32	0.45
1:B:662:GLY:HA2	1:B:703:LEU:HD21	1.99	0.45
1:B:666:VAL:HB	1:B:712:PHE:CE2	2.52	0.45
1:B:700:ILE:O	1:B:704:ILE:HG13	2.17	0.45
1:B:730:TYR:CD1	1:B:771:ARG:HB2	2.52	0.45
1:B:893:ASN:O	1:B:896:LYS:NZ	2.50	0.45
1:B:901:ALA:HA	1:B:904:GLN:HE21	1.82	0.45
1:B:914:ASP:HB2	1:B:963:GLN:CD	2.37	0.45
1:B:1033:MET:HB2	1:B:1035:GLN:OE1	2.17	0.45
1:B:1080:ARG:HA	1:B:1083:ILE:HD12	1.99	0.45
1:B:1354:LYS:HD2	1:B:1355:ALA:N	2.32	0.45
1:B:1462:PHE:O	1:B:1489:TYR:N	2.48	0.45
1:B:1628:GLU:O	1:B:1631:GLU:HG3	2.17	0.45
1:F:247:ASP:O	1:F:251:SER:N	2.49	0.45
1:F:344:HIS:CG	1:F:403:LEU:HD12	2.52	0.45
1:F:710:GLN:HA	1:F:713:ASN:HD22	1.82	0.45
1:F:1119:GLU:O	1:F:1122:LYS:N	2.50	0.45
2:G:45:MET:HA	2:G:51:VAL:HG22	1.98	0.45
3:A:94:SER:O	3:A:100:LYS:HD2	2.16	0.45
3:A:259:ARG:HB3	3:A:304:LEU:HD21	1.98	0.45
3:A:530:SER:O	3:A:534:LEU:N	2.49	0.45
3:A:612:ASP:O	3:A:646:TYR:HA	2.16	0.45
1:B:529:PHE:O	1:B:549:VAL:HG13	2.17	0.45
1:B:534:ARG:NE	1:B:541:ASP:OD1	2.40	0.45
1:B:740:TYR:C	1:B:753:LEU:HD21	2.37	0.45
1:B:1036:ALA:O	1:B:1038:PHE:N	2.49	0.45
1:B:1091:TRP:CD1	1:B:1127:ILE:HG23	2.52	0.45
1:B:1169:LYS:HZ2	1:B:1202:GLU:HA	1.81	0.45
1:B:1280:PRO:HB3	1:B:1288:TYR:OH	2.17	0.45
1:B:1391:ARG:HB3	1:B:1392:GLU:OE1	2.17	0.45
1:B:1404:ASN:OD1	1:B:1424:GLN:HB2	2.16	0.45
2:C:46:VAL:HG13	2:C:47:ASP:N	2.32	0.45
1:F:6:PRO:HG3	3:E:724:TYR:CD1	2.52	0.45
1:F:1183:HIS:HB3	1:F:1187:SER:OG	2.17	0.45
1:F:1208:ARG:HB3	1:F:1212:MET:HE1	1.98	0.45
1:F:1485:GLU:N	1:F:1485:GLU:OE1	2.50	0.45
3:E:579:LEU:HD11	3:E:583:HIS:HA	1.99	0.45
3:A:166:MET:SD	3:A:173:TRP:HA	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:16:LYS:NZ	6:D:202:GTP:O3B	2.50	0.45
1:B:932:LEU:HA	1:B:935:ARG:HE	1.81	0.45
1:B:1146:MET:HG2	1:B:1147:PHE:N	2.31	0.45
1:B:1231:TYR:CE2	1:B:1239:ILE:HD12	2.52	0.45
2:C:7:VAL:HB	2:C:78:PHE:CD2	2.52	0.45
2:C:93:VAL:HG13	2:C:94:ARG:N	2.32	0.45
1:F:262:TRP:HE1	1:F:266:GLY:HA2	1.82	0.45
1:F:325:ALA:HB2	1:F:348:PHE:HD1	1.82	0.45
1:F:566:ARG:HE	1:F:621:GLN:HE21	1.63	0.45
1:F:593:MET:HG3	1:F:594:GLU:N	2.32	0.45
1:F:656:LYS:HD2	1:F:659:GLU:HG3	1.99	0.45
1:F:668:PHE:O	1:F:672:THR:HG23	2.17	0.45
1:F:879:LEU:HD22	1:F:924:HIS:NE2	2.32	0.45
1:F:1483:TRP:CE3	1:F:1511:GLU:HG3	2.52	0.45
1:F:1604:ILE:CD1	1:F:1622:LEU:HB3	2.47	0.45
2:G:69:PRO:HB3	2:G:104:HIS:CD2	2.52	0.45
3:E:602:ASP:N	3:E:602:ASP:OD1	2.49	0.45
3:A:216:TYR:OH	3:A:254:ALA:HB2	2.17	0.45
3:A:476:ASP:O	3:A:480:VAL:HG12	2.17	0.45
3:A:608:LEU:HD12	3:A:608:LEU:HA	1.71	0.45
3:A:657:PRO:HB2	3:A:661:GLU:OE2	2.17	0.45
1:B:39:GLU:OE1	1:B:46:ARG:NE	2.50	0.44
1:B:166:ARG:HB3	1:B:171:ASN:C	2.38	0.44
1:B:231:PHE:CZ	1:B:233:CYS:HB3	2.52	0.44
1:B:501:TYR:OH	1:B:508:CYS:O	2.18	0.44
1:B:795:PHE:HZ	1:B:840:PHE:HA	1.82	0.44
1:B:921:THR:OG1	1:B:924:HIS:HB3	2.17	0.44
1:B:1300:LEU:HA	1:B:1303:GLU:OE1	2.16	0.44
1:F:80:VAL:HG11	1:F:133:SER:HA	1.98	0.44
1:F:105:LEU:HD13	1:F:110:LYS:HZ1	1.83	0.44
1:F:634:ASN:O	1:F:638:LEU:HD23	2.17	0.44
1:F:745:ASP:N	1:F:745:ASP:OD1	2.50	0.44
1:F:882:LEU:O	1:F:885:GLN:HG2	2.18	0.44
1:F:906:LEU:HG	1:F:910:LEU:HD23	1.99	0.44
1:F:1125:ILE:N	1:F:1126:PRO:HD2	2.32	0.44
1:F:1195:LEU:O	1:F:1198:SER:OG	2.33	0.44
2:G:42:ALA:HB3	2:G:53:LEU:HD11	1.97	0.44
3:A:89:HIS:HB3	3:A:123:LEU:HD11	2.00	0.44
3:A:180:PHE:O	3:A:184:ILE:HG12	2.16	0.44
1:B:31:ILE:HD12	3:A:697:ARG:HB2	1.99	0.44
1:B:44:TRP:CH2	1:B:60:PRO:HG3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ILE:O	1:B:222:TYR:OH	2.15	0.44
1:B:227:ASN:ND2	1:B:278:GLN:HE21	2.15	0.44
1:B:322:PHE:O	1:B:350:GLN:HA	2.18	0.44
1:B:563:GLN:OE1	1:B:633:GLN:HB3	2.18	0.44
1:B:630:LYS:HG3	1:B:668:PHE:CZ	2.51	0.44
1:B:738:ASN:HA	1:B:741:VAL:HG12	1.98	0.44
1:B:932:LEU:CA	1:B:935:ARG:HE	2.30	0.44
1:B:1217:LYS:HD3	1:B:1217:LYS:N	2.32	0.44
1:B:1545:HIS:CD2	2:C:5:LYS:HE3	2.52	0.44
1:F:118:GLN:HB3	1:F:122:TYR:CZ	2.51	0.44
1:F:628:SER:OG	1:F:629:THR:N	2.49	0.44
1:F:843:PHE:O	1:F:847:ILE:HG13	2.17	0.44
1:F:1177:LEU:HD22	1:F:1181:ARG:NH2	2.31	0.44
1:F:1284:GLN:OE1	1:F:1284:GLN:N	2.42	0.44
2:G:77:VAL:HG12	2:G:109:PRO:HG2	1.98	0.44
3:E:678:MET:N	3:E:678:MET:SD	2.90	0.44
3:A:613:ILE:HD12	3:A:644:ILE:CG2	2.46	0.44
1:B:19:TYR:CB	1:B:59:PHE:HE1	2.29	0.44
1:B:29:LEU:HD12	1:B:59:PHE:CZ	2.53	0.44
1:B:59:PHE:HD2	1:B:64:ILE:HD13	1.82	0.44
1:B:95:LEU:HD23	1:B:98:TRP:CD1	2.52	0.44
1:B:706:ASP:OD1	1:B:707:ILE:N	2.51	0.44
1:B:771:ARG:HH22	1:B:784:GLY:CA	2.29	0.44
1:B:982:ILE:O	1:B:986:LEU:HD23	2.17	0.44
1:B:1015:ARG:O	1:B:1018:LEU:HB2	2.18	0.44
1:B:1125:ILE:HG21	1:B:1175:LEU:HG	1.99	0.44
1:B:1197:VAL:O	1:B:1200:LEU:HB2	2.16	0.44
1:B:1392:GLU:HA	1:B:1395:SER:HB3	1.99	0.44
1:B:1601:THR:CB	1:B:1605:ARG:HH21	2.28	0.44
2:C:83:SER:HB3	2:C:86:SER:HB3	2.00	0.44
2:C:100:GLU:O	2:C:104:HIS:ND1	2.40	0.44
1:F:31:ILE:HG13	3:E:536:LEU:HD22	1.99	0.44
1:F:109:ASN:OD1	3:E:555:ARG:NE	2.51	0.44
1:F:985:PHE:CD2	1:F:986:LEU:HD22	2.53	0.44
1:F:1609:GLU:HB2	1:F:1610:LYS:NZ	2.33	0.44
3:A:80:SER:O	3:A:84:ASN:ND2	2.50	0.44
4:D:7:VAL:H	4:D:75:THR:HG23	1.81	0.44
4:D:41:SER:HA	4:D:53:LEU:O	2.17	0.44
4:D:83:SER:HB3	4:D:86:SER:HB3	1.99	0.44
4:D:139:PRO:O	4:D:143:GLN:HB2	2.17	0.44
1:B:24:ASP:OD1	1:B:24:ASP:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:TYR:CD2	1:B:64:ILE:HG13	2.52	0.44
1:B:52:ASN:HB3	1:B:55:LYS:HE2	1.98	0.44
1:B:300:ILE:HB	1:B:322:PHE:HD2	1.82	0.44
1:B:470:MET:HA	1:B:529:PHE:HA	1.98	0.44
1:B:651:LYS:O	1:B:655:LYS:HG3	2.17	0.44
1:B:1129:PHE:CD1	1:B:1179:HIS:HB2	2.52	0.44
1:B:1560:MET:O	1:B:1560:MET:HG3	2.17	0.44
1:F:106:TYR:HB2	3:E:551:GLN:NE2	2.32	0.44
1:F:304:GLY:O	1:F:318:LEU:HB2	2.18	0.44
1:F:647:SER:HA	1:F:650:ILE:HD12	1.98	0.44
1:F:753:LEU:HD23	1:F:753:LEU:HA	1.74	0.44
1:F:835:GLU:HA	1:F:838:VAL:HG22	1.99	0.44
1:F:937:ASN:ND2	1:F:989:THR:HG22	2.32	0.44
1:F:1166:GLU:O	1:F:1169:LYS:HG2	2.18	0.44
3:E:663:CYS:HB3	3:E:679:SER:OG	2.16	0.44
3:A:33:ILE:HG13	3:A:66:ARG:HH12	1.82	0.44
1:B:247:ASP:OD1	1:B:249:ASP:HB2	2.16	0.44
1:B:754:PHE:HB2	1:B:812:ILE:HG12	1.98	0.44
1:B:893:ASN:N	1:B:895:ASN:OD1	2.47	0.44
1:F:242:PHE:CE2	1:F:259:LEU:HD13	2.52	0.44
1:F:470:MET:HB2	1:F:527:ILE:HG21	2.00	0.44
1:F:527:ILE:HB	1:F:552:VAL:HG12	2.00	0.44
1:F:727:THR:HG1	1:F:778:TYR:HE2	1.63	0.44
1:F:910:LEU:O	1:F:913:LEU:HB2	2.18	0.44
1:F:985:PHE:O	1:F:989:THR:HG23	2.18	0.44
1:F:1322:LYS:HG2	1:F:1345:ARG:HH12	1.81	0.44
2:G:117:LEU:HD13	2:G:156:GLU:HG3	1.98	0.44
3:E:563:ARG:O	3:E:655:ILE:N	2.47	0.44
3:E:652:LEU:HD23	3:E:652:LEU:HA	1.78	0.44
3:E:679:SER:HB2	3:E:682:THR:OG1	2.18	0.44
3:A:470:MET:C	3:A:471:ARG:HD3	2.38	0.44
3:A:485:LYS:O	3:A:489:MET:HG3	2.17	0.44
1:B:9:ARG:HH21	1:B:69:ALA:C	2.21	0.44
1:B:114:PHE:O	1:B:118:GLN:OE1	2.34	0.44
1:B:564:ASP:CG	1:B:633:GLN:HE22	2.21	0.44
1:B:775:LEU:CD2	1:B:781:SER:HB2	2.48	0.44
1:B:800:MET:O	1:B:804:ARG:N	2.48	0.44
1:B:1384:ARG:HB2	1:B:1495:PHE:CD2	2.53	0.44
2:C:145:MET:O	2:C:148:GLU:HB3	2.18	0.44
1:F:327:MET:CE	1:F:347:PRO:HD2	2.47	0.44
1:F:821:PRO:HG3	1:F:863:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:110:ILE:HG23	2:G:151:ALA:HA	1.98	0.44
3:E:657:PRO:HD2	3:E:665:TRP:HH2	1.82	0.44
3:A:107:LEU:HD11	3:A:165:LEU:HD11	1.98	0.44
4:D:14:VAL:HB	4:D:83:SER:N	2.33	0.44
1:B:220:HIS:HA	1:B:222:TYR:CZ	2.53	0.44
1:B:450:LEU:HB2	1:B:511:GLU:HB2	1.99	0.44
1:B:1136:PHE:CD1	1:B:1186:LEU:HD22	2.53	0.44
1:B:1232:LYS:HB2	1:B:1232:LYS:HE3	1.89	0.44
1:B:1387:GLU:HG2	1:B:1388:TYR:N	2.33	0.44
1:B:1435:MET:SD	1:B:1455:ARG:HA	2.58	0.44
1:B:1568:LYS:HD2	1:B:1569:ALA:N	2.33	0.44
1:F:795:PHE:CZ	1:F:843:PHE:HB2	2.53	0.44
1:F:891:ASP:HB2	1:F:938:ARG:NH1	2.31	0.44
1:F:903:SER:HB3	1:F:953:PHE:CE2	2.53	0.44
1:F:1283:LEU:HB3	1:F:1288:TYR:HD1	1.83	0.44
1:F:1359:GLN:HG2	1:F:1456:ALA:HB2	2.00	0.44
1:F:1368:TYR:HD2	1:F:1419:LYS:HE3	1.83	0.44
3:A:156:SER:O	3:A:160:THR:HG23	2.18	0.44
3:A:178:VAL:O	3:A:181:ILE:HG22	2.18	0.44
3:A:295:TYR:HB2	3:A:440:ASP:O	2.18	0.44
3:A:359:LEU:HD22	3:A:412:PRO:HA	2.00	0.44
4:D:37:PHE:CB	4:D:58:THR:HA	2.48	0.44
1:B:37:ILE:HD13	1:B:45:TYR:CB	2.44	0.44
1:B:98:TRP:CZ3	1:B:159:LEU:HD12	2.53	0.44
1:B:180:THR:O	1:B:183:LEU:HB2	2.18	0.44
1:B:450:LEU:N	1:B:511:GLU:O	2.47	0.44
1:B:714:PRO:O	1:B:718:THR:OG1	2.27	0.44
1:B:787:PHE:O	1:B:791:ILE:HG12	2.17	0.44
1:B:869:PHE:HA	1:B:918:VAL:HG13	2.00	0.44
1:B:887:SER:O	1:B:890:LEU:HB3	2.18	0.44
1:B:940:VAL:HG13	1:B:992:MET:SD	2.57	0.44
1:B:950:ILE:O	1:B:954:VAL:HG23	2.18	0.44
1:B:1296:LEU:HD12	1:B:1296:LEU:HA	1.65	0.44
2:C:169:PHE:O	2:C:173:ILE:HG22	2.17	0.44
1:F:114:PHE:O	1:F:117:LEU:HB3	2.18	0.44
1:F:329:ILE:HG22	1:F:332:ILE:HD12	2.00	0.44
1:F:1405:ALA:H	3:E:584:LYS:NZ	2.14	0.44
1:F:1436:SER:OG	1:F:1437:LEU:N	2.49	0.44
1:F:1455:ARG:CZ	1:F:1455:ARG:HB2	2.47	0.44
3:E:535:GLU:O	3:E:539:LYS:HB2	2.18	0.44
3:A:386:TYR:HE1	3:A:391:HIS:HD2	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:542:PRO:HA	3:A:545:LEU:HG	1.99	0.44
1:B:526:HIS:HA	1:B:553:LYS:HA	1.99	0.44
1:B:985:PHE:CD2	1:B:986:LEU:HD22	2.53	0.44
1:B:1145:HIS:O	1:B:1149:ASN:ND2	2.51	0.44
1:B:1198:SER:OG	1:B:1199:SER:N	2.51	0.44
1:F:2:ALA:HB3	3:E:717:PRO:HB2	2.00	0.44
1:F:558:ASP:OD1	1:F:559:GLY:N	2.51	0.44
1:F:642:ASN:OD1	1:F:646:ASN:HB2	2.17	0.44
1:F:730:TYR:HB2	1:F:767:ILE:HG23	2.00	0.44
1:F:1028:LEU:HD11	1:F:1042:LEU:HD23	2.00	0.44
1:F:1102:ILE:O	1:F:1105:MET:HG3	2.18	0.44
1:F:1321:SER:OG	1:F:1341:LEU:HD11	2.17	0.44
1:F:1328:TYR:CD2	1:F:1338:LEU:HD22	2.52	0.44
1:F:1578:GLU:HG3	1:F:1579:HIS:ND1	2.33	0.44
3:A:212:SER:HB2	3:A:215:LEU:HG	2.00	0.44
3:A:397:ARG:HH22	3:A:461:GLN:CD	2.21	0.44
4:D:110:ILE:O	4:D:152:VAL:HG22	2.17	0.44
1:B:18:ASN:HD22	1:B:28:SER:HB3	1.82	0.43
1:B:98:TRP:CH2	1:B:155:GLY:HA3	2.53	0.43
1:B:166:ARG:HA	1:B:166:ARG:HD2	1.89	0.43
1:B:232:VAL:HG21	1:B:400:TRP:HE1	1.83	0.43
1:B:679:ILE:O	1:B:683:MET:N	2.44	0.43
1:B:1063:THR:CA	1:B:1069:ARG:HH11	2.27	0.43
1:B:1097:HIS:HA	1:B:1100:LYS:NZ	2.33	0.43
1:F:65:HIS:ND1	1:F:65:HIS:O	2.51	0.43
1:F:1207:TYR:CD2	1:F:1208:ARG:HG3	2.53	0.43
1:F:1323:GLU:O	1:F:1327:THR:HG23	2.18	0.43
1:F:1386:LYS:HG3	1:F:1387:GLU:OE1	2.18	0.43
1:F:1419:LYS:HD2	1:F:1419:LYS:HA	1.74	0.43
2:G:68:ARG:NH1	2:G:96:LYS:HZ1	2.16	0.43
3:A:12:ILE:HA	3:A:75:LEU:HB2	1.99	0.43
3:A:130:THR:HG23	3:A:134:GLU:OE2	2.18	0.43
1:B:110:LYS:CD	1:B:113:LEU:HB2	2.48	0.43
1:B:238:ASP:O	1:B:303:VAL:N	2.51	0.43
1:B:966:ASP:HA	1:B:969:TYR:HD1	1.79	0.43
1:B:1064:PHE:HD1	1:B:1068:LYS:HZ2	1.66	0.43
1:B:1183:HIS:ND1	1:B:1184:LYS:O	2.52	0.43
1:B:1546:PRO:HA	1:B:1549:MET:CG	2.48	0.43
1:F:517:ILE:HB	1:F:522:VAL:HB	2.01	0.43
1:F:741:VAL:HG21	1:F:798:PHE:CD1	2.53	0.43
1:F:761:LYS:HZ3	1:F:825:ASN:HD21	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1207:TYR:CZ	1:F:1211:ILE:HG13	2.54	0.43
3:E:578:ARG:HG2	3:E:587:HIS:CD2	2.53	0.43
1:B:109:ASN:OD1	3:A:555:ARG:NH2	2.42	0.43
1:B:306:MET:H	1:B:314:HIS:CG	2.36	0.43
1:B:400:TRP:CZ2	4:D:127:ARG:HB2	2.50	0.43
1:B:473:HIS:HB3	1:B:478:LYS:N	2.33	0.43
1:B:819:TYR:O	1:B:822:SER:OG	2.18	0.43
1:B:953:PHE:O	1:B:957:MET:HE2	2.18	0.43
1:B:1102:ILE:HG23	1:B:1131:MET:HG3	2.01	0.43
1:B:1185:TYR:CD1	1:B:1185:TYR:N	2.86	0.43
1:B:1557:PRO:HG3	1:B:1563:PHE:CD2	2.53	0.43
1:F:243:MET:O	1:F:258:TYR:N	2.38	0.43
1:F:795:PHE:CD2	1:F:839:LEU:HD22	2.53	0.43
1:F:975:THR:HG22	1:F:975:THR:O	2.18	0.43
1:F:1038:PHE:O	1:F:1039:GLU:HG2	2.18	0.43
3:A:586:LEU:HD23	3:A:608:LEU:O	2.18	0.43
4:D:10:GLY:N	4:D:16:LYS:HD3	2.34	0.43
1:B:101:ILE:HD12	1:B:104:LYS:HE3	2.00	0.43
1:B:166:ARG:O	1:B:166:ARG:HG3	2.18	0.43
1:B:248:PRO:HB3	1:B:387:ILE:HD13	2.00	0.43
1:B:472:VAL:HA	1:B:527:ILE:HA	2.01	0.43
1:B:566:ARG:HE	1:B:621:GLN:CG	2.26	0.43
1:B:1264:LEU:HD22	1:B:1304:ILE:CG1	2.48	0.43
1:B:1328:TYR:HB3	1:B:1338:LEU:CD2	2.48	0.43
1:B:1382:ILE:HD12	1:B:1382:ILE:HA	1.85	0.43
1:B:1432:LYS:HB2	1:B:1463:ARG:HG2	2.00	0.43
1:B:1632:LYS:HA	1:B:1636:HIS:HB2	2.00	0.43
2:C:160:LEU:HD12	2:C:160:LEU:HA	1.78	0.43
1:F:876:GLU:O	1:F:880:PRO:HD3	2.17	0.43
1:F:1159:VAL:HB	1:F:1204:LEU:HD22	2.00	0.43
1:F:1173:GLU:O	1:F:1176:LEU:HG	2.18	0.43
1:F:1230:PHE:O	1:F:1233:GLU:HB3	2.18	0.43
1:F:1326:GLU:HA	1:F:1329:GLU:HG2	2.01	0.43
1:F:1556:ASP:O	1:F:1558:ALA:N	2.51	0.43
1:F:1560:MET:HE1	2:G:36:VAL:HG12	1.99	0.43
3:A:300:LEU:HA	3:A:303:ASN:ND2	2.32	0.43
3:A:502:PHE:CZ	3:A:506:LEU:HD11	2.54	0.43
3:A:578:ARG:NH2	3:A:598:GLU:OE1	2.52	0.43
1:B:101:ILE:O	1:B:104:LYS:HG2	2.19	0.43
1:B:598:LYS:HA	1:B:601:GLN:HG3	2.01	0.43
1:B:904:GLN:O	1:B:907:SER:OG	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:932:LEU:O	1:B:935:ARG:HB2	2.18	0.43
1:B:1086:ARG:HG2	1:B:1086:ARG:HH11	1.82	0.43
1:B:1237:GLU:O	1:B:1240:TYR:HB3	2.19	0.43
1:B:1395:SER:O	1:B:1399:LEU:HG	2.19	0.43
1:B:1466:ARG:N	1:B:1484:ILE:HG23	2.33	0.43
1:F:142:ALA:O	1:F:146:LYS:HG3	2.19	0.43
1:F:154:HIS:O	1:F:157:ARG:HG2	2.18	0.43
1:F:783:ASP:O	1:F:786:GLU:HG3	2.19	0.43
1:F:926:GLN:O	1:F:929:MET:HG2	2.19	0.43
1:F:1325:ALA:O	1:F:1328:TYR:HB2	2.18	0.43
1:F:1371:GLY:C	1:F:1424:GLN:HE21	2.21	0.43
3:A:394:ALA:HA	3:A:397:ARG:NE	2.34	0.43
3:A:531:ARG:HD2	3:A:534:LEU:HD12	2.00	0.43
4:D:146:ALA:HB2	4:D:154:TYR:HB2	2.01	0.43
1:B:195:GLU:HA	1:B:198:ILE:HG22	2.01	0.43
1:B:248:PRO:C	1:B:251:SER:H	2.22	0.43
1:B:285:SER:HB2	1:B:435:GLU:CD	2.39	0.43
1:B:927:LEU:HB3	1:B:931:ARG:NH1	2.21	0.43
1:B:1516:GLU:O	1:B:1519:ILE:HB	2.17	0.43
1:B:1602:GLU:HA	1:B:1605:ARG:HG2	2.00	0.43
1:F:242:PHE:HB2	1:F:299:GLN:OE1	2.18	0.43
1:F:582:ALA:C	1:F:583:LYS:HD3	2.39	0.43
1:F:725:SER:HA	1:F:773:LEU:HD11	2.00	0.43
1:F:990:PHE:HD2	1:F:1042:LEU:HD11	1.84	0.43
1:F:1054:LEU:HD22	1:F:1083:ILE:HG22	1.99	0.43
1:F:1396:LEU:O	1:F:1399:LEU:N	2.52	0.43
1:F:1469:ARG:HD2	1:F:1481:THR:CB	2.48	0.43
3:E:677:MET:O	3:E:683:ARG:NH1	2.52	0.43
4:D:5:LYS:HB3	4:D:74:GLN:O	2.19	0.43
1:B:48:TYR:HB3	1:B:53:LYS:HD2	2.00	0.43
1:B:305:HIS:HB3	1:B:314:HIS:ND1	2.34	0.43
1:B:468:VAL:HG21	1:B:620:PHE:CE1	2.54	0.43
1:B:552:VAL:HG23	1:B:591:THR:HG21	2.01	0.43
1:B:740:TYR:HB3	1:B:753:LEU:CD2	2.49	0.43
1:B:801:LEU:O	1:B:804:ARG:HB2	2.18	0.43
1:B:1121:ARG:O	1:B:1125:ILE:HG22	2.18	0.43
1:B:1236:ARG:HD3	1:B:1236:ARG:HA	1.90	0.43
1:B:1488:THR:OG1	1:B:1508:SER:N	2.52	0.43
1:F:226:VAL:HG22	1:F:403:LEU:HD23	2.00	0.43
1:F:589:PRO:HB2	1:F:595:MET:HG2	2.01	0.43
1:F:908:ASN:O	1:F:912:VAL:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1010:ASN:O	1:F:1013:GLN:NE2	2.52	0.43
1:F:1135:GLU:OE2	1:F:1147:PHE:CG	2.72	0.43
1:F:1354:LYS:HE2	1:F:1354:LYS:HB2	1.84	0.43
1:F:1391:ARG:NH2	2:G:162:GLN:OE1	2.52	0.43
2:G:45:MET:CB	2:G:50:PRO:HA	2.42	0.43
3:E:681:LEU:HA	3:E:684:ASN:OD1	2.19	0.43
3:A:126:ILE:HG23	3:A:129:LEU:HD12	2.01	0.43
3:A:304:LEU:HD13	3:A:304:LEU:HA	1.89	0.43
4:D:21:ILE:HG23	4:D:25:THR:OG1	2.18	0.43
1:B:19:TYR:N	1:B:28:SER:HA	2.24	0.43
1:B:60:PRO:O	1:B:64:ILE:HG12	2.19	0.43
1:B:84:GLU:O	1:B:87:LEU:HB3	2.18	0.43
1:B:287:MET:HE3	1:B:435:GLU:HG2	2.01	0.43
1:B:293:ARG:HG2	1:B:328:ASP:CG	2.39	0.43
1:B:719:TYR:O	1:B:724:PHE:N	2.48	0.43
1:B:783:ASP:HB2	1:B:786:GLU:HG3	2.01	0.43
1:B:992:MET:O	1:B:996:LEU:HD23	2.19	0.43
1:B:1166:GLU:O	1:B:1170:VAL:HG23	2.18	0.43
1:B:1179:HIS:HA	1:B:1182:LYS:HD3	2.00	0.43
1:B:1295:GLU:OE2	1:B:1299:LYS:HD3	2.19	0.43
1:F:1:MET:HB2	3:E:717:PRO:O	2.19	0.43
1:F:297:VAL:HG22	1:F:326:VAL:HG22	2.01	0.43
1:F:679:ILE:HG23	1:F:683:MET:SD	2.59	0.43
1:F:683:MET:HG3	1:F:689:TYR:CD2	2.54	0.43
1:F:871:GLN:HB2	1:F:918:VAL:CG1	2.47	0.43
1:F:1124:THR:O	1:F:1127:ILE:HB	2.18	0.43
1:F:1276:LYS:O	1:F:1278:CYS:N	2.52	0.43
3:E:646:TYR:C	3:E:648:SER:H	2.21	0.43
3:A:50:ALA:HB3	3:A:80:SER:HA	2.01	0.43
3:A:232:LEU:HA	3:A:240:GLN:HG2	1.99	0.43
3:A:272:ARG:HG2	3:A:446:PHE:CD1	2.54	0.43
3:A:297:LEU:HB2	3:A:446:PHE:HZ	1.82	0.43
4:D:11:ASP:O	4:D:14:VAL:HG22	2.18	0.43
4:D:139:PRO:HA	4:D:154:TYR:HE2	1.84	0.43
1:B:306:MET:HG2	1:B:320:ARG:NH2	2.33	0.43
1:B:419:HIS:CD2	1:B:420:LEU:HG	2.54	0.43
1:B:450:LEU:HD12	1:B:511:GLU:HB2	1.99	0.43
1:B:485:HIS:CE1	1:B:516:SER:HB2	2.53	0.43
1:B:537:GLN:O	1:B:541:ASP:N	2.47	0.43
1:B:616:THR:OG1	1:B:617:LYS:N	2.49	0.43
1:B:730:TYR:HA	1:B:733:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:841:CYS:HA	1:B:881:LEU:CD1	2.49	0.43
1:B:1521:THR:O	1:B:1524:LEU:HG	2.19	0.43
1:F:44:TRP:CD1	3:E:716:GLU:HG3	2.53	0.43
1:F:342:LYS:HG2	1:F:344:HIS:CE1	2.53	0.43
1:F:351:ILE:H	1:F:351:ILE:HG13	1.63	0.43
1:F:472:VAL:HG11	1:F:517:ILE:HD11	2.01	0.43
1:F:472:VAL:HG22	1:F:527:ILE:HG13	2.01	0.43
1:F:1618:LEU:O	1:F:1622:LEU:HG	2.19	0.43
3:E:533:ILE:HD12	3:E:533:ILE:H	1.84	0.43
4:D:95:HIS:O	4:D:99:PRO:HG2	2.19	0.43
1:B:10:GLN:HG3	1:B:37:ILE:HG22	1.99	0.43
1:B:100:VAL:HA	1:B:103:ARG:HB2	2.01	0.43
1:B:182:ALA:HA	1:B:185:LYS:HZ3	1.84	0.43
1:B:192:LYS:HE2	1:B:192:LYS:HA	2.01	0.43
1:B:240:GLU:OE1	1:B:261:ARG:HD2	2.19	0.43
1:B:834:VAL:HG22	1:B:873:GLU:O	2.17	0.43
1:B:1175:LEU:HB3	1:B:1179:HIS:HE1	1.84	0.43
1:B:1191:GLU:O	1:B:1195:LEU:HG	2.19	0.43
1:B:1269:GLU:OE1	1:B:1270:LEU:HD22	2.18	0.43
1:B:1315:GLU:HG2	1:B:1453:TYR:CE2	2.53	0.43
1:B:1517:ASN:O	1:B:1521:THR:HG23	2.19	0.43
1:F:156:ASN:HB3	1:F:161:LEU:HB2	2.01	0.43
1:F:382:VAL:O	1:F:386:VAL:HG23	2.19	0.43
1:F:1014:ASN:O	1:F:1018:LEU:HG	2.19	0.43
1:F:1026:GLU:O	1:F:1030:ARG:HG2	2.18	0.43
1:F:1039:GLU:O	1:F:1040:LEU:HD23	2.19	0.43
1:F:1185:TYR:CG	1:F:1186:LEU:N	2.86	0.43
1:F:1217:LYS:O	1:F:1220:ARG:HB2	2.18	0.43
1:F:1221:MET:CE	1:F:1250:LEU:HD13	2.48	0.43
1:F:1444:LYS:N	1:F:1444:LYS:HD2	2.34	0.43
1:F:1470:LYS:HD3	1:F:1483:TRP:CD2	2.54	0.43
1:F:1617:PRO:HB2	1:F:1621:ARG:NH2	2.34	0.43
3:E:565:LEU:HD23	3:E:565:LEU:HA	1.77	0.43
3:E:613:ILE:HD13	3:E:646:TYR:HB3	2.00	0.43
3:A:2:PRO:HA	3:A:3:PRO:HD3	1.88	0.43
3:A:279:VAL:HG11	3:A:290:MET:SD	2.58	0.43
3:A:693:GLU:OE2	3:A:697:ARG:HD3	2.19	0.43
1:B:17:TYR:CE1	3:A:711:PRO:HD2	2.54	0.42
1:B:70:THR:HG22	1:B:71:VAL:N	2.30	0.42
1:B:73:ASP:O	1:B:78:GLU:N	2.52	0.42
1:B:86:PRO:HA	1:B:89:GLN:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:108:ASN:HD21	1:B:110:LYS:HG2	1.84	0.42
1:B:114:PHE:CZ	1:B:118:GLN:NE2	2.87	0.42
1:B:129:SER:O	1:B:132:LEU:HB2	2.19	0.42
1:B:379:LEU:HD23	1:B:379:LEU:HA	1.92	0.42
1:B:814:GLY:O	1:B:817:LEU:HG	2.19	0.42
1:B:905:LEU:O	1:B:909:ILE:HG12	2.18	0.42
1:B:1029:THR:HA	1:B:1033:MET:SD	2.59	0.42
1:B:1086:ARG:NE	1:B:1086:ARG:HA	2.34	0.42
1:B:1205:LEU:HD13	1:B:1205:LEU:HA	1.91	0.42
1:B:1532:CYS:SG	1:B:1550:LEU:HD12	2.59	0.42
1:B:1593:ILE:O	1:B:1597:MET:HG2	2.19	0.42
2:C:14:VAL:HG13	2:C:116:LYS:HZ3	1.84	0.42
2:C:24:THR:HG22	2:C:42:ALA:HB2	2.01	0.42
1:F:132:LEU:HD21	3:E:702:GLU:HB3	2.01	0.42
1:F:241:LEU:O	1:F:260:ILE:N	2.50	0.42
1:F:431:MET:HB3	1:F:625:LEU:HD23	2.00	0.42
1:F:446:ILE:HG12	1:F:626:ILE:HG12	2.00	0.42
1:F:775:LEU:O	1:F:779:GLY:N	2.52	0.42
1:F:840:PHE:HA	1:F:843:PHE:HB3	2.00	0.42
1:F:1114:LEU:HD23	1:F:1168:TYR:HE1	1.83	0.42
1:F:1117:GLU:CD	1:F:1120:LEU:HG	2.39	0.42
1:F:1469:ARG:NH1	1:F:1473:LYS:HG3	2.34	0.42
2:G:64:TYR:HA	2:G:66:ARG:NH1	2.34	0.42
2:G:82:PHE:CE1	2:G:154:TYR:HE1	2.37	0.42
3:E:587:HIS:HD1	3:E:606:ASP:CG	2.22	0.42
3:A:317:ASP:HB3	3:A:320:GLN:HG3	2.00	0.42
4:D:129:LEU:HB3	4:D:134:GLN:O	2.19	0.42
1:B:1:MET:H1	3:A:716:GLU:HB3	1.84	0.42
1:B:24:ASP:OD1	1:B:25:VAL:HG22	2.20	0.42
1:B:85:LEU:O	1:B:89:GLN:HG2	2.19	0.42
1:B:293:ARG:HA	1:B:330:THR:OG1	2.19	0.42
1:B:933:LEU:HD21	1:B:960:LEU:CD2	2.49	0.42
1:B:987:MET:O	1:B:991:ILE:HG23	2.20	0.42
1:B:1011:MET:O	1:B:1014:ASN:HB2	2.19	0.42
1:B:1193:PHE:N	1:B:1193:PHE:CD1	2.85	0.42
1:B:1196:LEU:O	1:B:1200:LEU:HG	2.18	0.42
1:B:1231:TYR:CE2	1:B:1243:TYR:CE2	3.04	0.42
1:B:1599:LEU:HA	1:B:1599:LEU:HD12	1.91	0.42
2:C:138:THR:OG1	2:C:140:PRO:HD2	2.19	0.42
1:F:41:TYR:HD2	1:F:44:TRP:HB2	1.84	0.42
1:F:934:ARG:NH1	1:F:934:ARG:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1133:GLN:O	1:F:1136:PHE:HB3	2.19	0.42
1:F:1375:PHE:O	1:F:1379:LYS:HG3	2.19	0.42
1:F:1540:ARG:HA	1:F:1540:ARG:CZ	2.49	0.42
1:F:1540:ARG:O	1:F:1542:LEU:N	2.52	0.42
2:G:169:PHE:O	2:G:173:ILE:HG12	2.19	0.42
3:E:575:TRP:HB2	3:E:591:LEU:HB2	2.01	0.42
3:E:607:LYS:HZ1	3:E:609:PRO:N	2.17	0.42
3:A:69:ILE:HG12	3:A:75:LEU:HD21	2.02	0.42
3:A:129:LEU:O	3:A:132:MET:HG2	2.20	0.42
3:A:260:GLN:NE2	3:A:307:ASP:OD2	2.52	0.42
3:A:522:ARG:HG3	3:A:531:ARG:NH1	2.34	0.42
3:A:609:PRO:HB2	3:A:611:ALA:H	1.83	0.42
3:A:646:TYR:HE1	3:A:652:LEU:HG	1.82	0.42
4:D:152:VAL:HB	4:D:180:THR:HG21	2.02	0.42
1:B:228:PHE:CE2	1:B:399:LEU:HD12	2.54	0.42
1:B:351:ILE:HD12	1:B:375:GLU:OE1	2.19	0.42
1:B:568:ASP:CG	1:B:592:LYS:HG3	2.39	0.42
1:B:866:SER:C	1:B:868:LEU:H	2.22	0.42
1:B:890:LEU:CD2	1:B:935:ARG:HG3	2.46	0.42
1:B:1022:ASN:O	1:B:1025:ALA:N	2.53	0.42
1:B:1024:PHE:O	1:B:1028:LEU:HD23	2.18	0.42
1:B:1198:SER:O	1:B:1199:SER:C	2.58	0.42
1:B:1328:TYR:HA	1:B:1332:VAL:CG2	2.50	0.42
1:F:1:MET:N	3:E:717:PRO:HD2	2.33	0.42
1:F:12:TYR:HB2	1:F:67:LYS:HB2	2.01	0.42
1:F:137:PRO:HB2	1:F:140:GLU:OE1	2.20	0.42
1:F:170:GLY:C	1:F:172:ILE:H	2.21	0.42
1:F:598:LYS:HA	1:F:601:GLN:HG3	2.01	0.42
1:F:874:CYS:HA	1:F:877:VAL:HG12	2.00	0.42
1:F:1298:GLU:HG2	1:F:1302:GLN:OE1	2.19	0.42
2:G:119:LEU:HA	2:G:122:ASP:HB2	2.00	0.42
3:A:88:LEU:O	3:A:92:ILE:HB	2.20	0.42
3:A:246:VAL:O	3:A:250:LEU:HG	2.19	0.42
3:A:552:ARG:HB3	3:A:664:ILE:HG23	2.01	0.42
1:B:51:GLN:H	1:B:51:GLN:CD	2.21	0.42
1:B:88:VAL:O	1:B:91:LEU:HB3	2.20	0.42
1:B:128:ARG:O	1:B:132:LEU:HG	2.19	0.42
1:B:330:THR:CA	1:B:333:ILE:HG12	2.42	0.42
1:B:367:LEU:O	1:B:368:ILE:HG13	2.19	0.42
1:B:462:THR:HB	1:B:503:GLN:HG2	2.01	0.42
1:B:614:ASP:OD1	1:B:615:SER:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:768:ILE:O	1:B:772:VAL:HG22	2.20	0.42
1:B:809:ALA:O	1:B:813:LYS:HG3	2.20	0.42
1:B:910:LEU:HA	1:B:913:LEU:HB2	2.00	0.42
1:B:1279:VAL:HB	1:B:1281:HIS:ND1	2.34	0.42
1:B:1279:VAL:HA	1:B:1280:PRO:HD3	1.89	0.42
1:B:1372:PHE:CE2	1:B:1424:GLN:HB3	2.55	0.42
1:B:1466:ARG:HB2	1:B:1485:GLU:H	1.84	0.42
1:F:318:LEU:HD22	1:F:320:ARG:NH2	2.34	0.42
1:F:710:GLN:HA	1:F:713:ASN:ND2	2.35	0.42
1:F:761:LYS:HZ1	1:F:825:ASN:HD21	1.67	0.42
1:F:879:LEU:HD22	1:F:924:HIS:CE1	2.54	0.42
1:F:1013:GLN:O	1:F:1016:VAL:HG22	2.19	0.42
1:F:1073:VAL:O	1:F:1077:GLY:N	2.48	0.42
3:E:643:SER:OG	3:E:653:ASN:HA	2.20	0.42
4:D:19:LEU:HD13	4:D:157:CYS:SG	2.59	0.42
1:B:380:THR:HA	1:B:510:TYR:CE2	2.54	0.42
1:B:532:ARG:HA	1:B:546:ALA:HA	2.00	0.42
1:B:585:TYR:HA	1:B:588:LEU:HB2	2.00	0.42
1:B:694:PHE:O	1:B:698:VAL:HG23	2.20	0.42
1:B:818:LYS:HA	1:B:862:LYS:HE3	2.02	0.42
1:B:1289:TYR:CE2	1:B:1291:TYR:CE1	3.07	0.42
1:B:1467:PRO:HG3	2:C:33:ILE:CD1	2.48	0.42
1:B:1499:LEU:HD23	1:B:1499:LEU:HA	1.80	0.42
1:B:1514:PRO:CA	1:B:1517:ASN:HD22	2.31	0.42
1:B:1529:ILE:O	1:B:1533:VAL:HG12	2.19	0.42
1:B:1583:GLN:HA	1:B:1586:VAL:HG12	2.01	0.42
1:F:105:LEU:HD22	1:F:110:LYS:CE	2.49	0.42
1:F:809:ALA:O	1:F:812:ILE:N	2.52	0.42
1:F:880:PRO:HA	1:F:931:ARG:HH21	1.85	0.42
1:F:1473:LYS:HD3	1:F:1481:THR:HG21	2.02	0.42
1:F:1514:PRO:O	1:F:1517:ASN:HB3	2.19	0.42
4:D:120:ARG:HH12	4:D:156:GLU:CD	2.23	0.42
1:B:323:GLY:HA3	1:B:350:GLN:HA	2.00	0.42
1:B:411:THR:OG1	1:B:412:GLN:N	2.52	0.42
1:B:527:ILE:HD13	1:B:552:VAL:HG13	2.02	0.42
1:B:566:ARG:NE	1:B:621:GLN:HG3	2.27	0.42
1:B:569:LEU:HB2	1:B:620:PHE:HB3	2.02	0.42
1:B:721:TYR:C	1:B:722:LYS:HD2	2.39	0.42
1:B:743:ASN:HB2	1:B:749:LYS:CD	2.50	0.42
1:B:1044:ASN:O	1:B:1048:HIS:ND1	2.53	0.42
1:B:1211:ILE:HG22	1:B:1212:MET:CE	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1216:SER:O	1:B:1220:ARG:HG3	2.19	0.42
1:B:1327:THR:HA	1:B:1331:LYS:HZ1	1.84	0.42
2:C:80:ILE:O	2:C:112:LEU:HD12	2.19	0.42
2:C:114:GLY:O	2:C:115:THR:OG1	2.29	0.42
1:F:676:LEU:HG	1:F:693:VAL:HG13	2.01	0.42
1:F:678:ASN:HA	1:F:681:MET:CG	2.47	0.42
1:F:890:LEU:HD11	1:F:935:ARG:C	2.40	0.42
1:F:1014:ASN:HB2	1:F:1079:MET:HE1	2.00	0.42
1:F:1066:GLN:HA	1:F:1069:ARG:HH22	1.84	0.42
1:F:1148:GLU:HA	1:F:1151:LEU:HB3	2.01	0.42
1:F:1362:TYR:N	1:F:1362:TYR:CD1	2.87	0.42
3:A:52:GLN:O	3:A:76:ARG:N	2.37	0.42
3:A:317:ASP:O	3:A:321:ARG:HB2	2.19	0.42
3:A:356:TYR:CE1	3:A:359:LEU:HD12	2.54	0.42
3:A:526:GLU:O	3:A:529:GLN:N	2.49	0.42
3:A:547:LEU:CA	3:A:550:GLN:HE21	2.33	0.42
4:D:9:VAL:HB	4:D:97:TRP:CZ3	2.54	0.42
4:D:22:CYS:HB3	4:D:162:GLN:NE2	2.35	0.42
1:B:104:LYS:O	1:B:107:VAL:HG22	2.20	0.42
1:B:162:ASP:HB2	1:B:1007:MET:SD	2.59	0.42
1:B:626:ILE:HD12	1:B:633:GLN:NE2	2.35	0.42
1:B:771:ARG:O	1:B:775:LEU:HG	2.20	0.42
1:B:784:GLY:O	1:B:787:PHE:HB3	2.20	0.42
1:B:809:ALA:O	1:B:812:ILE:N	2.53	0.42
1:B:1059:LEU:HD23	1:B:1080:ARG:HH22	1.84	0.42
1:B:1169:LYS:HE2	1:B:1169:LYS:HB3	1.83	0.42
2:C:46:VAL:HG13	2:C:47:ASP:H	1.84	0.42
2:C:116:LYS:O	2:C:120:ARG:N	2.44	0.42
2:C:122:ASP:O	2:C:126:ILE:HG23	2.20	0.42
1:F:934:ARG:HB3	1:F:935:ARG:NH1	2.34	0.42
1:F:953:PHE:O	1:F:956:CYS:HB2	2.20	0.42
1:F:1114:LEU:HB3	1:F:1163:ARG:HG2	2.02	0.42
1:F:1297:LYS:HG2	1:F:1301:TYR:HE1	1.83	0.42
1:F:1386:LYS:HD3	1:F:1386:LYS:HA	1.75	0.42
3:A:306:GLU:HG3	3:A:310:MET:CE	2.49	0.42
3:A:670:ASN:HA	3:A:673:LEU:HD12	2.01	0.42
4:D:20:LEU:O	4:D:24:THR:N	2.45	0.42
4:D:143:GLN:OE1	4:D:154:TYR:HB3	2.20	0.42
1:B:473:HIS:HA	1:B:478:LYS:O	2.19	0.42
1:B:883:THR:HG21	1:B:931:ARG:CD	2.50	0.42
1:B:1033:MET:O	1:B:1036:ALA:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1335:TYR:O	1:B:1338:LEU:HB2	2.20	0.42
1:B:1585:LYS:HA	1:B:1588:LEU:HD12	2.00	0.42
1:F:31:ILE:CG2	3:E:701:LEU:HD23	2.48	0.42
1:F:244:ALA:HB2	1:F:257:ASN:HA	2.02	0.42
1:F:332:ILE:HG23	1:F:403:LEU:HB3	2.00	0.42
1:F:945:ARG:HH12	1:F:946:GLN:HB2	1.84	0.42
1:F:1372:PHE:N	1:F:1424:GLN:HG2	2.35	0.42
2:G:27:ALA:O	2:G:162:GLN:NE2	2.52	0.42
3:A:292:HIS:ND1	3:A:436:GLU:HG3	2.35	0.42
3:A:394:ALA:O	3:A:398:ILE:HG12	2.19	0.42
1:B:55:LYS:HG2	1:B:56:LYS:N	2.35	0.42
1:B:102:TRP:HB2	1:B:114:PHE:HE1	1.82	0.42
1:B:291:ARG:HA	1:B:292:PRO:HD3	1.91	0.42
1:B:473:HIS:O	1:B:525:CYS:HB3	2.20	0.42
1:B:566:ARG:NH2	1:B:621:GLN:HE21	2.18	0.42
1:B:787:PHE:O	1:B:790:SER:HB3	2.20	0.42
1:B:806:LEU:HD22	1:B:851:GLN:CD	2.40	0.42
1:B:820:LEU:O	1:B:823:ILE:HG12	2.20	0.42
1:B:824:ILE:O	1:B:828:LYS:HG2	2.20	0.42
2:C:114:GLY:HA3	2:C:156:GLU:CG	2.50	0.42
1:F:127:TRP:HA	1:F:130:GLN:HG2	2.02	0.42
1:F:465:ASN:CB	1:F:534:ARG:H	2.32	0.42
1:F:651:LYS:HE2	1:F:689:TYR:CE1	2.54	0.42
1:F:680:MET:HE3	1:F:690:ASP:HA	2.02	0.42
1:F:862:LYS:O	1:F:865:GLU:HB3	2.19	0.42
1:F:1060:GLN:HA	1:F:1063:THR:OG1	2.19	0.42
1:F:1217:LYS:CG	1:F:1220:ARG:HH21	2.26	0.42
1:F:1316:LYS:HE3	1:F:1319:LYS:HD3	2.02	0.42
1:F:1560:MET:SD	1:F:1565:ASN:ND2	2.93	0.42
1:F:1607:HIS:HE2	1:F:1615:LEU:HB3	1.84	0.42
2:G:80:ILE:HG23	2:G:112:LEU:HA	2.01	0.42
2:G:122:ASP:O	2:G:126:ILE:HG23	2.19	0.42
3:A:393:ASP:OD1	3:A:393:ASP:N	2.52	0.42
3:A:531:ARG:HA	3:A:534:LEU:HD12	2.01	0.42
3:A:552:ARG:HH21	3:A:555:ARG:NE	2.18	0.42
3:A:644:ILE:HD12	3:A:652:LEU:HD12	2.01	0.42
1:B:41:TYR:OH	3:A:715:LYS:O	2.14	0.42
1:B:99:ALA:HB1	1:B:103:ARG:NH1	2.33	0.42
1:B:237:GLU:HG2	1:B:303:VAL:O	2.20	0.42
1:B:474:ASP:O	1:B:526:HIS:CE1	2.73	0.42
1:B:591:THR:OG1	1:B:593:MET:SD	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1094:LEU:HD23	1:B:1094:LEU:O	2.20	0.42
1:B:1217:LYS:HE2	1:B:1217:LYS:HB2	1.87	0.42
1:F:105:LEU:HD22	1:F:110:LYS:HE2	2.00	0.42
1:F:121:THR:HA	1:F:124:LEU:HD12	2.01	0.42
1:F:197:LYS:HG2	1:F:200:GLU:OE2	2.20	0.42
1:F:683:MET:HG2	1:F:683:MET:O	2.20	0.42
1:F:1120:LEU:O	1:F:1124:THR:OG1	2.35	0.42
1:F:1525:THR:HA	1:F:1528:ARG:NH1	2.27	0.42
2:G:68:ARG:NH1	2:G:97:TRP:HZ3	2.18	0.42
3:E:544:ILE:HA	3:E:547:LEU:HG	2.02	0.42
3:E:579:LEU:HD12	3:E:585:VAL:O	2.20	0.42
3:A:302:PHE:HB3	3:A:431:GLY:N	2.15	0.42
3:A:303:ASN:HA	3:A:306:GLU:HB2	2.01	0.42
3:A:673:LEU:HB3	3:A:675:LYS:HE2	2.01	0.42
4:D:98:HIS:CE1	4:D:102:CYS:SG	3.13	0.42
1:B:59:PHE:HD2	1:B:64:ILE:CD1	2.33	0.41
1:B:262:TRP:HE1	1:B:266:GLY:HA2	1.85	0.41
1:B:469:THR:HA	1:B:496:TYR:O	2.19	0.41
1:B:535:SER:OG	1:B:536:SER:N	2.53	0.41
1:B:571:VAL:H	1:B:619:SER:HA	1.84	0.41
1:B:817:LEU:HD12	1:B:818:LYS:N	2.35	0.41
1:B:868:LEU:HD12	1:B:868:LEU:HA	1.89	0.41
1:B:1109:ILE:HA	1:B:1112:VAL:HG12	2.02	0.41
1:B:1125:ILE:HG23	1:B:1126:PRO:HD3	2.02	0.41
1:B:1284:GLN:OE1	1:B:1284:GLN:N	2.43	0.41
1:B:1371:GLY:C	1:B:1424:GLN:HE21	2.24	0.41
1:B:1524:LEU:HA	1:B:1527:GLU:OE2	2.19	0.41
1:F:23:GLN:HG2	1:F:58:ILE:HB	2.01	0.41
1:F:105:LEU:HB3	1:F:110:LYS:HE3	2.02	0.41
1:F:224:LEU:HD12	1:F:404:LYS:O	2.20	0.41
1:F:469:THR:HA	1:F:496:TYR:O	2.20	0.41
1:F:736:VAL:HA	1:F:739:PHE:HB3	2.01	0.41
1:F:749:LYS:HA	1:F:752:LEU:HB2	2.02	0.41
1:F:853:VAL:HA	1:F:856:LYS:HG2	2.02	0.41
1:F:1134:CYS:HA	1:F:1137:ASN:OD1	2.20	0.41
1:F:1136:PHE:CD1	1:F:1186:LEU:HD22	2.55	0.41
1:F:1491:THR:HA	1:F:1505:LYS:H	1.84	0.41
2:G:68:ARG:HH11	2:G:96:LYS:HZ1	1.67	0.41
2:G:113:VAL:HG12	2:G:155:LEU:HB2	2.01	0.41
2:G:129:LEU:O	2:G:133:LYS:N	2.53	0.41
3:E:560:THR:HG21	3:E:661:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:620:LYS:HA	3:E:620:LYS:HD3	1.82	0.41
3:A:639:GLU:H	3:A:639:GLU:CD	2.21	0.41
3:A:702:GLU:C	3:A:704:ILE:H	2.22	0.41
4:D:58:THR:HB	4:D:68:ARG:HG3	2.02	0.41
4:D:97:TRP:O	4:D:101:VAL:HG13	2.20	0.41
4:D:98:HIS:CD2	4:D:149:ILE:HB	2.54	0.41
1:B:278:GLN:O	1:B:426:ALA:HB3	2.20	0.41
1:B:683:MET:HE3	1:B:686:SER:N	2.34	0.41
1:B:718:THR:O	1:B:722:LYS:HB2	2.18	0.41
1:B:924:HIS:CD2	1:B:928:ILE:HD11	2.55	0.41
1:B:929:MET:SD	1:B:968:HIS:HB3	2.60	0.41
1:B:1060:GLN:O	1:B:1063:THR:HB	2.20	0.41
1:B:1086:ARG:O	1:B:1089:ASP:OD1	2.37	0.41
1:B:1125:ILE:CD1	1:B:1172:LEU:HA	2.50	0.41
1:B:1344:LYS:HA	1:B:1344:LYS:HD2	1.79	0.41
1:B:1452:ASN:O	1:B:1455:ARG:HB3	2.20	0.41
1:B:1536:HIS:HD2	1:B:1539:ASP:O	2.03	0.41
1:B:1562:GLY:HA3	2:C:36:VAL:HB	2.02	0.41
1:B:1600:LEU:CB	1:B:1626:PHE:HE1	2.34	0.41
1:F:4:TRP:CZ3	1:F:41:TYR:HB3	2.54	0.41
1:F:470:MET:O	1:F:495:GLU:HG3	2.20	0.41
1:F:720:ILE:HG12	1:F:766:PHE:CZ	2.55	0.41
1:F:954:VAL:HA	1:F:957:MET:CE	2.50	0.41
2:G:171:GLU:HG3	2:G:174:ARG:HD2	2.03	0.41
3:E:531:ARG:HG2	3:E:532:PRO:HD3	2.02	0.41
4:D:68:ARG:HG2	4:D:72:TYR:CE1	2.56	0.41
1:B:125:ILE:HG13	1:B:126:GLU:N	2.34	0.41
1:B:159:LEU:HD23	1:B:159:LEU:HA	1.79	0.41
1:B:297:VAL:HG12	1:B:299:GLN:NE2	2.34	0.41
1:B:473:HIS:HB2	1:B:526:HIS:CE1	2.55	0.41
1:B:724:PHE:CD2	1:B:769:GLN:HG3	2.55	0.41
1:B:838:VAL:HA	1:B:841:CYS:SG	2.60	0.41
1:B:1143:ASN:OD1	1:B:1145:HIS:N	2.54	0.41
1:B:1362:TYR:CD2	1:B:1462:PHE:CE2	3.07	0.41
1:B:1462:PHE:HB2	1:B:1489:TYR:CB	2.34	0.41
1:F:875:ARG:HE	1:F:924:HIS:CD2	2.38	0.41
1:F:1032:PHE:CB	1:F:1043:TRP:HH2	2.33	0.41
1:F:1033:MET:H	1:F:1035:GLN:HE21	1.68	0.41
1:F:1105:MET:O	1:F:1108:PRO:HD2	2.20	0.41
1:F:1318:ILE:HG12	1:F:1345:ARG:HG3	2.02	0.41
1:F:1322:LYS:HG2	1:F:1345:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:591:LEU:HD13	3:A:591:LEU:HA	1.81	0.41
4:D:164:GLY:O	4:D:168:VAL:HG23	2.20	0.41
1:B:10:GLN:HG2	1:B:37:ILE:O	2.20	0.41
1:B:45:TYR:OH	1:B:61:GLU:HG3	2.20	0.41
1:B:192:LYS:HE2	1:B:195:GLU:OE1	2.21	0.41
1:B:451:ILE:HB	1:B:621:GLN:OE1	2.20	0.41
1:B:465:ASN:OD1	1:B:503:GLN:N	2.53	0.41
1:B:677:PHE:HB3	1:B:681:MET:HE1	2.02	0.41
1:B:741:VAL:HG21	1:B:798:PHE:HD1	1.84	0.41
1:B:879:LEU:HB3	1:B:880:PRO:HD3	2.03	0.41
1:B:1038:PHE:O	1:B:1039:GLU:HG2	2.20	0.41
1:B:1401:GLN:HB3	1:B:1402:PHE:HD2	1.86	0.41
1:B:1633:VAL:O	1:B:1639:VAL:HG22	2.20	0.41
1:F:4:TRP:HZ3	1:F:45:TYR:HA	1.86	0.41
1:F:11:LYS:HZ1	1:F:36:HIS:C	2.23	0.41
1:F:896:LYS:CG	1:F:897:PRO:HD3	2.48	0.41
1:F:937:ASN:O	1:F:940:VAL:HG12	2.20	0.41
1:F:1012:THR:HG22	1:F:1015:ARG:HH21	1.85	0.41
1:F:1272:GLN:OE1	1:F:1272:GLN:N	2.53	0.41
1:F:1602:GLU:HA	1:F:1605:ARG:CG	2.50	0.41
2:G:90:PHE:CD2	2:G:137:ILE:HD12	2.55	0.41
2:G:135:THR:O	2:G:137:ILE:N	2.52	0.41
3:A:236:ASP:HA	3:A:284:ARG:HH12	1.85	0.41
1:B:14:VAL:HG13	3:A:700:ASP:OD2	2.20	0.41
1:B:79:THR:HB	1:B:81:ILE:O	2.20	0.41
1:B:322:PHE:O	1:B:322:PHE:CG	2.73	0.41
1:B:933:LEU:HD23	1:B:933:LEU:HA	1.84	0.41
1:B:1206:ASP:O	1:B:1210:ILE:HG12	2.20	0.41
1:B:1516:GLU:O	1:B:1517:ASN:C	2.58	0.41
1:B:1607:HIS:HE2	1:B:1619:HIS:HB2	1.86	0.41
1:F:113:LEU:HA	1:F:116:GLN:CD	2.40	0.41
1:F:248:PRO:HD2	1:F:294:VAL:HA	2.00	0.41
1:F:466:VAL:O	1:F:500:VAL:HA	2.21	0.41
1:F:505:LYS:HE3	1:F:505:LYS:HB3	1.89	0.41
1:F:1111:GLU:HA	1:F:1114:LEU:HD12	2.02	0.41
1:F:1297:LYS:HG2	1:F:1301:TYR:CE1	2.55	0.41
2:G:130:LYS:HE2	2:G:130:LYS:HA	2.01	0.41
2:G:130:LYS:HE3	2:G:136:PRO:HD3	2.03	0.41
3:E:616:VAL:HB	3:E:644:ILE:HG12	2.02	0.41
3:E:660:HIS:O	3:E:664:ILE:HG13	2.20	0.41
3:A:128:LEU:HA	3:A:131:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:305:LEU:HB3	3:A:379:LEU:HD11	2.03	0.41
3:A:307:ASP:OD1	3:A:308:ARG:HG3	2.21	0.41
3:A:572:ASP:HA	3:A:593:GLU:OE2	2.21	0.41
3:A:581:PRO:HA	3:A:583:HIS:CE1	2.55	0.41
4:D:16:LYS:HE3	4:D:58:THR:O	2.20	0.41
4:D:23:TYR:OH	4:D:53:LEU:HD12	2.20	0.41
1:B:534:ARG:HH21	1:B:541:ASP:CG	2.24	0.41
1:B:548:GLY:HA2	1:B:573:LYS:HG2	2.01	0.41
1:B:594:GLU:HA	1:B:597:GLU:HG3	2.02	0.41
1:B:652:HIS:O	1:B:656:LYS:NZ	2.53	0.41
1:B:914:ASP:O	1:B:916:LYS:HD2	2.21	0.41
1:B:1540:ARG:O	1:B:1542:LEU:N	2.53	0.41
1:B:1629:LEU:HA	1:B:1632:LYS:CG	2.51	0.41
2:C:78:PHE:HB3	2:C:110:ILE:HD13	2.03	0.41
1:F:102:TRP:HA	1:F:105:LEU:CG	2.49	0.41
1:F:197:LYS:HA	1:F:200:GLU:CD	2.40	0.41
1:F:246:TYR:HB3	1:F:297:VAL:CG2	2.50	0.41
1:F:839:LEU:HA	1:F:842:LYS:HZ1	1.86	0.41
1:F:1127:ILE:HG22	1:F:1131:MET:CE	2.51	0.41
2:G:100:GLU:HA	2:G:103:HIS:ND1	2.35	0.41
3:E:545:LEU:HD12	3:E:546:GLU:N	2.35	0.41
3:A:38:CYS:HB3	3:A:43:LEU:O	2.20	0.41
3:A:652:LEU:HD23	3:A:652:LEU:HA	1.79	0.41
4:D:22:CYS:SG	4:D:159:ALA:HB1	2.61	0.41
4:D:87:PRO:O	4:D:90:TYR:HB3	2.21	0.41
1:B:85:LEU:CA	1:B:88:VAL:HG12	2.47	0.41
1:B:113:LEU:HA	1:B:116:GLN:CD	2.41	0.41
1:B:165:VAL:CG2	1:B:175:PRO:HD3	2.50	0.41
1:B:243:MET:N	1:B:243:MET:SD	2.94	0.41
1:B:729:ALA:O	1:B:732:LYS:N	2.53	0.41
1:B:775:LEU:O	1:B:779:GLY:N	2.54	0.41
1:B:785:ASP:OD1	1:B:785:ASP:N	2.53	0.41
1:B:957:MET:O	1:B:960:LEU:HB3	2.21	0.41
1:B:1483:TRP:CZ3	1:B:1511:GLU:HG3	2.56	0.41
1:F:79:THR:HB	1:F:81:ILE:O	2.20	0.41
1:F:220:HIS:O	1:F:285:SER:HA	2.21	0.41
1:F:1579:HIS:CD2	1:F:1582:ASP:HB2	2.55	0.41
3:A:26:GLN:HE22	3:A:66:ARG:HB2	1.86	0.41
3:A:300:LEU:HA	3:A:303:ASN:HD21	1.85	0.41
3:A:483:VAL:HG13	3:A:511:TYR:OH	2.21	0.41
4:D:124:ASP:HA	4:D:127:ARG:HE	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:25:VAL:CG2	1:B:57:GLY:HA2	2.51	0.41
1:B:90:GLU:O	1:B:93:SER:OG	2.33	0.41
1:B:150:ALA:HA	1:B:153:ASP:OD2	2.20	0.41
1:B:240:GLU:HB3	1:B:242:PHE:CE1	2.55	0.41
1:B:578:LYS:HA	1:B:584:PHE:CE2	2.55	0.41
1:B:670:GLN:OE1	1:B:719:TYR:HB2	2.20	0.41
1:B:1154:LYS:O	1:B:1158:GLU:OE1	2.39	0.41
1:B:1300:LEU:HA	1:B:1300:LEU:HD23	1.78	0.41
1:B:1392:GLU:OE1	1:B:1392:GLU:N	2.54	0.41
1:B:1613:GLU:CD	1:B:1614:GLN:HG3	2.40	0.41
1:F:122:TYR:HA	1:F:125:ILE:HG12	2.02	0.41
1:F:222:TYR:HB2	1:F:284:LEU:HB2	2.02	0.41
1:F:308:LEU:HD23	1:F:308:LEU:HA	1.88	0.41
1:F:545:ARG:NH1	1:F:576:ASN:OD1	2.54	0.41
1:F:695:ASP:OD1	1:F:752:LEU:HD22	2.21	0.41
1:F:824:ILE:O	1:F:827:VAL:HB	2.21	0.41
1:F:914:ASP:O	1:F:916:LYS:HD3	2.20	0.41
1:F:982:ILE:O	1:F:986:LEU:HD23	2.20	0.41
1:F:1060:GLN:OE1	1:F:1060:GLN:N	2.44	0.41
1:F:1444:LYS:HA	1:F:1445:PRO:HD3	1.96	0.41
1:F:1451:LEU:HA	1:F:1451:LEU:HD13	1.81	0.41
2:G:162:GLN:HA	2:G:165:LEU:HD13	2.02	0.41
3:E:644:ILE:HB	3:E:652:LEU:HB2	2.02	0.41
3:A:301:THR:O	3:A:305:LEU:HG	2.21	0.41
3:A:396:ILE:O	3:A:400:LEU:HD23	2.20	0.41
1:B:1:MET:CE	3:A:718:SER:HA	2.51	0.41
1:B:17:TYR:CZ	3:A:710:PRO:HA	2.56	0.41
1:B:41:TYR:CD2	1:B:44:TRP:HB2	2.52	0.41
1:B:151:LYS:HA	1:B:151:LYS:HD3	1.87	0.41
1:B:409:ASP:OD1	1:B:411:THR:OG1	2.37	0.41
1:B:423:ARG:HA	1:B:423:ARG:HD3	1.97	0.41
1:B:446:ILE:HG23	1:B:626:ILE:HG12	2.03	0.41
1:B:772:VAL:O	1:B:776:ARG:HG2	2.21	0.41
1:B:883:THR:CB	1:B:931:ARG:HE	2.34	0.41
1:B:886:LEU:O	1:B:889:GLN:HB3	2.20	0.41
1:B:940:VAL:C	1:B:992:MET:HE3	2.41	0.41
1:B:965:ASP:H	1:B:968:HIS:CD2	2.39	0.41
1:B:1038:PHE:C	1:B:1039:GLU:HG2	2.40	0.41
1:B:1170:VAL:O	1:B:1174:LYS:HG3	2.21	0.41
1:B:1362:TYR:HE2	1:B:1459:VAL:HG21	1.85	0.41
1:B:1551:LEU:HD23	1:B:1551:LEU:HA	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:93:VAL:HG13	2:C:94:ARG:H	1.86	0.41
1:F:1:MET:HB3	3:E:720:TYR:CE1	2.56	0.41
1:F:246:TYR:HA	1:F:253:PHE:HA	2.03	0.41
1:F:278:GLN:HB2	1:F:425:THR:HG23	2.03	0.41
1:F:568:ASP:HB3	1:F:592:LYS:HB2	2.02	0.41
1:F:721:TYR:C	1:F:722:LYS:HD3	2.41	0.41
1:F:824:ILE:HG13	1:F:867:THR:HG21	2.02	0.41
1:F:921:THR:HG1	1:F:924:HIS:HB3	1.86	0.41
1:F:948:PRO:C	1:F:950:ILE:H	2.24	0.41
1:F:1038:PHE:HB2	1:F:1039:GLU:OE1	2.20	0.41
1:F:1417:ASP:N	1:F:1417:ASP:OD1	2.53	0.41
1:F:1581:GLU:HG2	1:F:1582:ASP:OD1	2.21	0.41
1:F:1598:PRO:O	1:F:1602:GLU:OE1	2.39	0.41
2:G:49:LYS:HZ2	2:G:51:VAL:HG12	1.86	0.41
2:G:66:ARG:HG2	2:G:67:LEU:HD23	2.02	0.41
2:G:78:PHE:O	2:G:110:ILE:HD12	2.21	0.41
2:G:82:PHE:HE1	2:G:154:TYR:HE1	1.69	0.41
3:E:643:SER:HA	3:E:652:LEU:O	2.20	0.41
3:A:91:ARG:HG3	3:A:103:ALA:HB1	2.03	0.41
3:A:276:LEU:HD22	3:A:446:PHE:O	2.21	0.41
3:A:422:LYS:HB2	3:A:422:LYS:HE3	1.82	0.41
3:A:463:LEU:HG	3:A:484:VAL:HG21	2.03	0.41
3:A:617:VAL:O	3:A:643:SER:N	2.54	0.41
4:D:21:ILE:HG22	4:D:27:ALA:O	2.20	0.41
4:D:111:LEU:HD12	4:D:112:LEU:N	2.35	0.41
1:B:85:LEU:O	1:B:88:VAL:HG12	2.21	0.41
1:B:172:ILE:HA	1:B:175:PRO:CG	2.51	0.41
1:B:225:TYR:CZ	1:B:420:LEU:HD22	2.56	0.41
1:B:795:PHE:O	1:B:798:PHE:HB2	2.21	0.41
1:B:809:ALA:O	1:B:810:VAL:C	2.59	0.41
1:B:1059:LEU:HG	1:B:1116:PRO:HB2	2.02	0.41
1:B:1582:ASP:HB3	1:B:1585:LYS:HD3	2.03	0.41
1:B:1596:GLN:HG2	1:B:1600:LEU:HG	2.03	0.41
1:F:19:TYR:N	1:F:28:SER:HA	2.36	0.41
1:F:113:LEU:HA	1:F:116:GLN:OE1	2.21	0.41
1:F:144:LEU:O	1:F:148:VAL:HG22	2.21	0.41
1:F:207:ASN:C	1:F:208:LEU:HD12	2.42	0.41
1:F:246:TYR:HB2	1:F:253:PHE:CD1	2.56	0.41
1:F:300:ILE:HG22	1:F:322:PHE:HD2	1.86	0.41
1:F:345:PHE:CD2	1:F:347:PRO:HD3	2.56	0.41
1:F:443:ARG:O	1:F:629:THR:OG1	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1138:PHE:O	1:F:1141:ASN:N	2.44	0.41
1:F:1146:MET:HA	1:F:1149:ASN:HD22	1.86	0.41
1:F:1251:HIS:CD2	1:F:1259:GLU:HB3	2.56	0.41
1:F:1273:TRP:CE3	1:F:1297:LYS:HD3	2.56	0.41
3:A:272:ARG:HH21	3:A:449:ASP:CG	2.25	0.41
3:A:616:VAL:HA	3:A:644:ILE:HA	2.03	0.41
1:B:110:LYS:HD3	1:B:113:LEU:HB2	2.02	0.40
1:B:800:MET:CE	1:B:804:ARG:HE	2.33	0.40
1:B:949:HIS:HD1	1:B:949:HIS:H	1.69	0.40
1:B:1563:PHE:HA	1:B:1566:TYR:CD2	2.42	0.40
2:C:8:VAL:HG22	2:C:79:LEU:HD12	2.04	0.40
2:C:139:TYR:OH	2:C:143:LEU:HD12	2.21	0.40
1:F:10:GLN:OE1	1:F:10:GLN:N	2.54	0.40
1:F:743:ASN:O	1:F:743:ASN:ND2	2.54	0.40
1:F:828:LYS:HZ3	1:F:867:THR:HA	1.86	0.40
1:F:929:MET:HE3	1:F:933:LEU:HD11	2.02	0.40
1:F:1032:PHE:HE2	1:F:1039:GLU:HG3	1.86	0.40
1:F:1250:LEU:HA	1:F:1250:LEU:HD23	1.79	0.40
3:E:695:LYS:HE3	3:E:695:LYS:HB3	1.92	0.40
3:A:11:ALA:HA	3:A:21:LEU:CD1	2.51	0.40
3:A:159:LEU:HD22	3:A:204:ILE:HD12	2.03	0.40
3:A:543:GLU:O	3:A:546:GLU:HG2	2.21	0.40
3:A:547:LEU:HA	3:A:550:GLN:HG3	2.04	0.40
1:B:105:LEU:HD13	1:B:110:LYS:HZ1	1.86	0.40
1:B:185:LYS:O	1:B:189:VAL:HG23	2.20	0.40
1:B:201:GLU:O	1:B:205:LEU:HB2	2.21	0.40
1:B:657:LEU:HA	1:B:660:VAL:HG23	2.04	0.40
1:B:746:ASP:OD2	1:B:748:SER:OG	2.39	0.40
1:B:910:LEU:O	1:B:913:LEU:HB2	2.21	0.40
1:B:1101:PHE:O	1:B:1104:SER:OG	2.36	0.40
1:B:1204:LEU:O	1:B:1207:TYR:HB3	2.21	0.40
1:B:1316:LYS:CE	1:B:1319:LYS:HD3	2.50	0.40
2:C:7:VAL:HB	2:C:78:PHE:HD2	1.85	0.40
2:C:65:ASP:O	2:C:69:PRO:HD3	2.21	0.40
1:F:81:ILE:HG21	1:F:141:LEU:CD2	2.51	0.40
1:F:535:SER:HB3	1:F:541:ASP:HA	2.03	0.40
1:F:642:ASN:O	1:F:646:ASN:N	2.54	0.40
1:F:817:LEU:HD13	1:F:855:GLN:O	2.21	0.40
1:F:839:LEU:HA	1:F:842:LYS:HE2	2.03	0.40
1:F:959:ALA:O	1:F:963:GLN:HG3	2.21	0.40
1:F:1066:GLN:HA	1:F:1069:ARG:CZ	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1176:LEU:HD13	1:F:1194:ALA:HB1	2.03	0.40
1:F:1231:TYR:CE2	1:F:1239:ILE:HD12	2.55	0.40
1:F:1344:LYS:HD2	1:F:1344:LYS:HA	1.75	0.40
2:G:140:PRO:O	2:G:143:LEU:HB3	2.22	0.40
3:A:184:ILE:HA	3:A:187:PHE:CD2	2.56	0.40
3:A:628:LYS:HA	3:A:632:LYS:HD3	2.04	0.40
3:A:684:ASN:HA	3:A:687:ASP:OD2	2.21	0.40
4:D:144:ALA:O	4:D:147:LYS:HG3	2.21	0.40
1:B:26:GLU:OE2	1:B:59:PHE:HB2	2.20	0.40
1:B:342:LYS:HG2	1:B:344:HIS:CE1	2.57	0.40
1:B:786:GLU:O	1:B:789:ASN:HB2	2.21	0.40
1:B:1116:PRO:HA	1:B:1121:ARG:NH2	2.36	0.40
1:B:1197:VAL:O	1:B:1201:LEU:HG	2.21	0.40
1:B:1279:VAL:HB	1:B:1281:HIS:CE1	2.56	0.40
1:B:1516:GLU:HG3	1:B:1520:GLU:OE1	2.21	0.40
1:B:1524:LEU:HD12	1:B:1525:THR:N	2.36	0.40
1:B:1531:ASN:O	1:B:1535:GLN:HG3	2.22	0.40
1:B:1557:PRO:CB	1:B:1562:GLY:H	2.33	0.40
1:F:298:CYS:N	1:F:325:ALA:O	2.53	0.40
1:F:626:ILE:HD12	1:F:633:GLN:NE2	2.36	0.40
1:F:640:LEU:HD11	1:F:657:LEU:HD21	2.03	0.40
1:F:759:ALA:O	1:F:763:LEU:HG	2.20	0.40
1:F:854:ARG:HG3	1:F:898:ASP:OD1	2.20	0.40
1:F:943:MET:O	1:F:950:ILE:HD12	2.22	0.40
1:F:1458:GLU:N	1:F:1458:GLU:OE2	2.54	0.40
1:F:1495:PHE:N	1:F:1495:PHE:CD1	2.89	0.40
3:E:535:GLU:HB3	3:E:539:LYS:NZ	2.36	0.40
3:A:228:LEU:HD23	3:A:247:ILE:HG13	2.04	0.40
3:A:397:ARG:HH12	3:A:461:GLN:HG3	1.86	0.40
3:A:405:ARG:NH1	3:A:468:LYS:HZ3	2.20	0.40
4:D:124:ASP:HA	4:D:127:ARG:NE	2.35	0.40
4:D:129:LEU:HA	4:D:132:GLN:HE21	1.86	0.40
1:B:1:MET:HE2	3:A:718:SER:HA	2.04	0.40
1:B:9:ARG:NE	1:B:68:GLU:O	2.52	0.40
1:B:400:TRP:CH2	4:D:127:ARG:HD2	2.57	0.40
1:B:474:ASP:HA	1:B:525:CYS:SG	2.61	0.40
1:B:828:LYS:HA	1:B:828:LYS:HD2	1.97	0.40
1:B:861:THR:HA	1:B:864:VAL:HG12	2.04	0.40
1:B:1342:LEU:CD1	1:F:1346:ALA:HB2	2.49	0.40
1:B:1406:GLU:HG3	1:B:1425:TYR:CE1	2.56	0.40
1:B:1564:SER:HA	1:B:1567:GLU:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1611:LEU:HD12	1:B:1615:LEU:CB	2.50	0.40
2:C:2:GLN:HE22	2:C:4:ILE:HG12	1.87	0.40
2:C:35:THR:OG1	2:C:40:TYR:OH	2.38	0.40
2:C:124:ASP:O	2:C:128:LYS:HD3	2.21	0.40
1:F:10:GLN:HG2	1:F:37:ILE:HB	2.03	0.40
1:F:41:TYR:HD2	1:F:44:TRP:N	2.20	0.40
1:F:180:THR:HG22	1:F:181:ILE:HD13	2.02	0.40
1:F:228:PHE:CD2	1:F:399:LEU:HD12	2.56	0.40
1:F:568:ASP:OD2	1:F:569:LEU:N	2.53	0.40
1:F:857:LEU:O	1:F:861:THR:OG1	2.26	0.40
1:F:1424:GLN:H	1:F:1424:GLN:HG3	1.70	0.40
1:F:1436:SER:HB2	1:F:1454:TYR:O	2.21	0.40
1:F:1468:PHE:O	1:F:1469:ARG:HD3	2.22	0.40
2:G:94:ARG:HA	2:G:98:TYR:HB3	2.03	0.40
3:A:286:ILE:HG21	3:A:441:PHE:CE2	2.56	0.40
3:A:299:VAL:HA	3:A:302:PHE:HD2	1.87	0.40
3:A:302:PHE:CG	3:A:430:VAL:HA	2.56	0.40
3:A:690:LEU:HA	3:A:690:LEU:HD12	1.78	0.40
1:B:18:ASN:OD1	3:A:536:LEU:HD12	2.21	0.40
1:B:244:ALA:HB2	1:B:257:ASN:HA	2.04	0.40
1:B:259:LEU:HD23	1:B:490:TYR:HB3	2.04	0.40
1:B:841:CYS:O	1:B:844:ILE:N	2.55	0.40
1:B:941:ILE:N	1:B:992:MET:HE3	2.37	0.40
1:B:1177:LEU:HD22	1:B:1181:ARG:HH12	1.87	0.40
1:B:1211:ILE:HG22	1:B:1212:MET:HE3	2.04	0.40
1:B:1490:THR:OG1	1:B:1506:GLN:HB3	2.22	0.40
1:B:1516:GLU:O	1:B:1520:GLU:OE1	2.39	0.40
1:B:1562:GLY:O	1:B:1565:ASN:HB2	2.22	0.40
1:F:143:GLU:O	1:F:147:LYS:HD3	2.21	0.40
1:F:195:GLU:HA	1:F:198:ILE:HG22	2.03	0.40
1:F:233:CYS:HB2	1:F:397:GLN:HA	2.04	0.40
1:F:345:PHE:HD1	1:F:400:TRP:CE2	2.40	0.40
1:F:637:LEU:O	1:F:641:LEU:HG	2.22	0.40
1:F:753:LEU:O	1:F:757:LEU:HD23	2.22	0.40
1:F:771:ARG:O	1:F:774:TYR:HB3	2.21	0.40
1:F:1125:ILE:CD1	1:F:1172:LEU:HA	2.51	0.40
1:F:1200:LEU:HD23	1:F:1230:PHE:HE2	1.86	0.40
1:F:1372:PHE:CZ	1:F:1424:GLN:HB3	2.56	0.40
2:G:16:LYS:O	2:G:19:LEU:HB3	2.21	0.40
3:E:560:THR:HG22	3:E:562:PHE:HE1	1.86	0.40
3:A:637:VAL:HB	3:A:655:ILE:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:155:LEU:CD1	4:D:168:VAL:HA	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [\(i\)](#)

5.3.1 Protein backbone [\(i\)](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	B	1640/1648 (100%)	1416 (86%)	224 (14%)	0	100 100
1	F	1640/1648 (100%)	1466 (89%)	174 (11%)	0	100 100
2	C	175/184 (95%)	156 (89%)	19 (11%)	0	100 100
2	G	175/184 (95%)	157 (90%)	18 (10%)	0	100 100
3	A	725/733 (99%)	657 (91%)	68 (9%)	0	100 100
3	E	197/733 (27%)	162 (82%)	35 (18%)	0	100 100
4	D	179/203 (88%)	161 (90%)	18 (10%)	0	100 100
All	All	4731/5333 (89%)	4175 (88%)	556 (12%)	0	100 100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [\(i\)](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	B	1495/1497 (100%)	1490 (100%)	5 (0%)	92 95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	F	1495/1497 (100%)	1489 (100%)	6 (0%)	91 94
2	C	153/157 (98%)	153 (100%)	0	100 100
2	G	153/157 (98%)	151 (99%)	2 (1%)	69 82
3	A	662/664 (100%)	659 (100%)	3 (0%)	88 93
3	E	184/664 (28%)	183 (100%)	1 (0%)	88 93
4	D	157/174 (90%)	155 (99%)	2 (1%)	69 82
All	All	4299/4810 (89%)	4280 (100%)	19 (0%)	91 94

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	110	LYS
1	B	128	ARG
1	B	935	ARG
1	B	1356	MET
1	B	1568	LYS
1	F	96	ARG
1	F	110	LYS
1	F	128	ARG
1	F	743	ASN
1	F	935	ARG
1	F	1568	LYS
2	G	66	ARG
2	G	123	LYS
3	E	531	ARG
3	A	218	LYS
3	A	471	ARG
3	A	516	LYS
4	D	66	ARG
4	D	147	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (53) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	89	GLN
1	B	199	GLN
1	B	278	GLN
1	B	419	HIS
1	B	652	HIS

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Mol	Chain	Res	Type
1	B	653	ASN
1	B	871	GLN
1	B	885	GLN
1	B	904	GLN
1	B	908	ASN
1	B	924	HIS
1	B	968	HIS
1	B	1013	GLN
1	B	1149	ASN
1	B	1293	GLN
1	B	1401	GLN
1	B	1517	ASN
1	B	1536	HIS
2	C	39	ASN
1	F	51	GLN
1	F	89	GLN
1	F	119	GLN
1	F	130	GLN
1	F	299	GLN
1	F	376	ASN
1	F	646	ASN
1	F	649	ASN
1	F	743	ASN
1	F	793	GLN
1	F	799	ASN
1	F	825	ASN
1	F	1013	GLN
1	F	1035	GLN
1	F	1041	GLN
1	F	1506	GLN
1	F	1526	ASN
1	F	1614	GLN
3	A	52	GLN
3	A	86	GLN
3	A	87	GLN
3	A	231	HIS
3	A	248	ASN
3	A	287	ASN
3	A	293	GLN
3	A	391	HIS
3	A	402	ASN
3	A	439	ASN

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Mol	Chain	Res	Type
3	A	550	GLN
3	A	633	GLN
3	A	703	ASN
4	D	98	HIS
4	D	140	GLN
4	D	162	GLN

5.3.3 RNA [\(i\)](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [\(i\)](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [\(i\)](#)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	GTP	D	202	5,4	26,34,34	1.11	2 (7%)	32,54,54	1.70	7 (21%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	GTP	D	202	5,4	-	2/18/38/38	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	202	GTP	C5-C6	-3.95	1.39	1.47
6	D	202	GTP	C2-N3	2.15	1.38	1.33

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	202	GTP	PA-O3A-PB	-5.03	115.55	132.83
6	D	202	GTP	PB-O3B-PG	-3.40	121.15	132.83
6	D	202	GTP	C5-C6-N1	3.20	119.61	113.95
6	D	202	GTP	C3'-C2'-C1'	2.95	105.42	100.98
6	D	202	GTP	C8-N7-C5	2.88	108.48	102.99
6	D	202	GTP	C2-N1-C6	-2.88	119.80	125.10
6	D	202	GTP	O6-C6-C5	-2.22	120.03	124.37

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	D	202	GTP	PB-O3B-PG-O3G
6	D	202	GTP	PB-O3B-PG-O1G

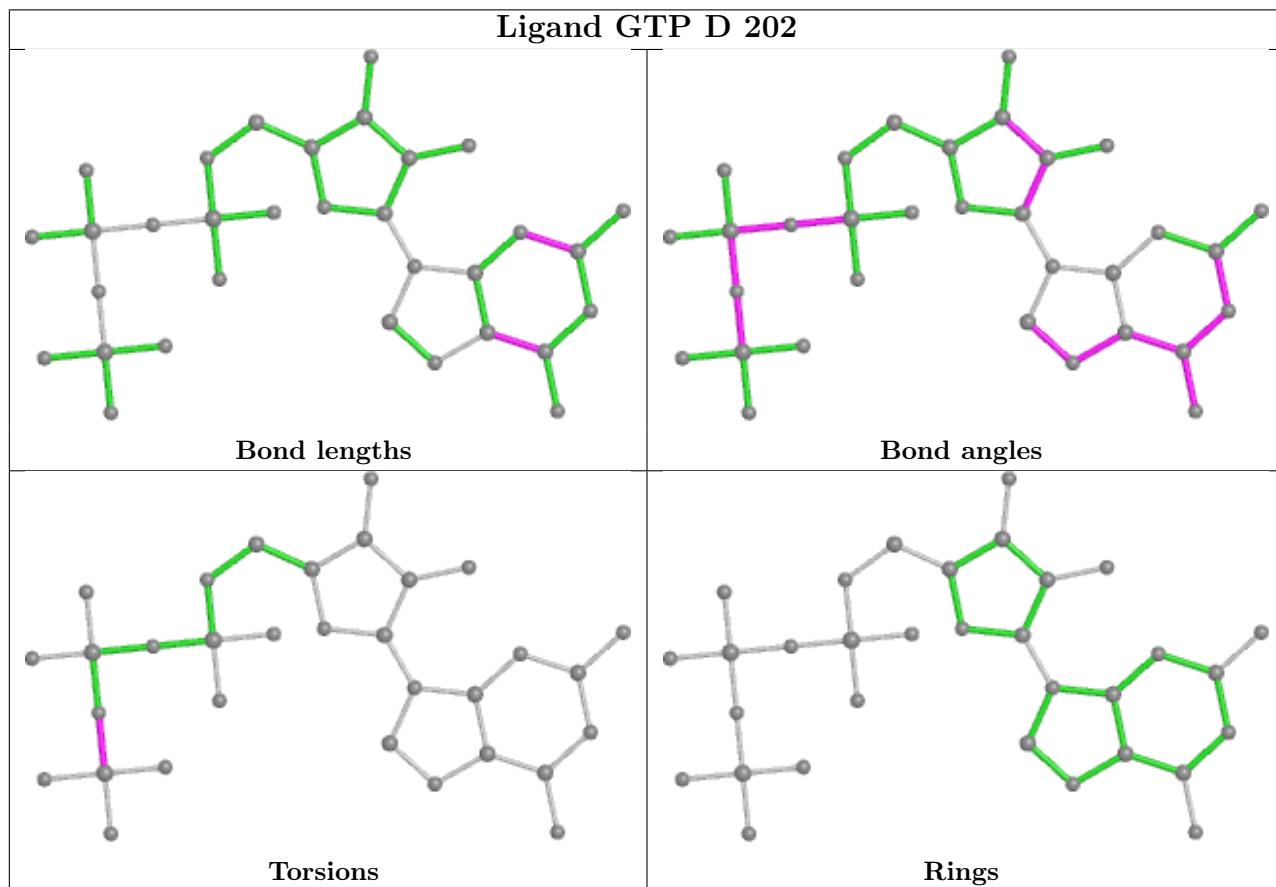
There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	202	GTP	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.



5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.

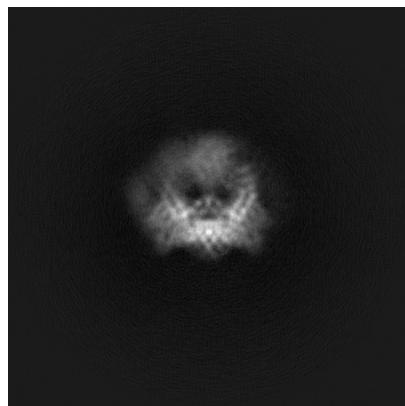
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-60136. These allow visual inspection of the internal detail of the map and identification of artifacts.

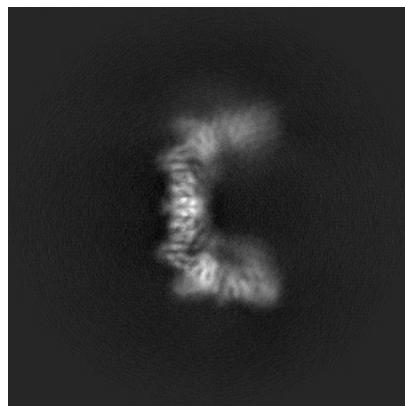
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections (i)

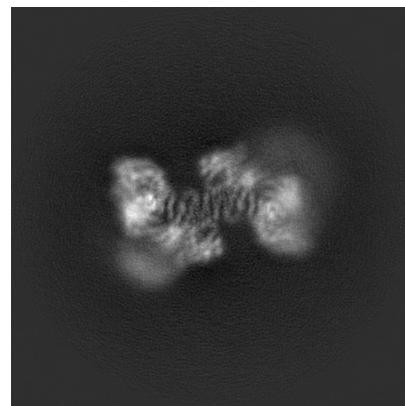
6.1.1 Primary map



X

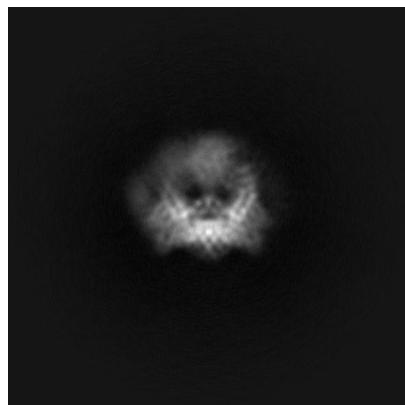


Y

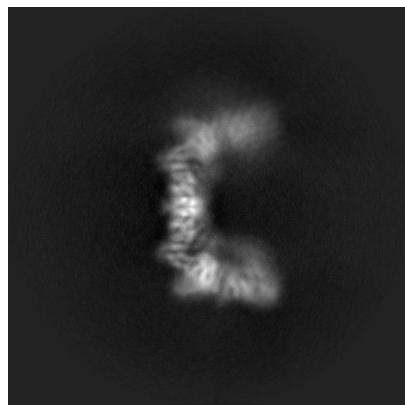


Z

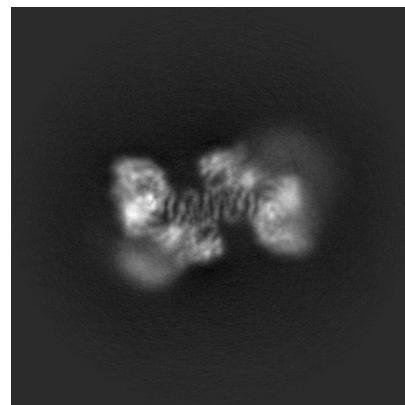
6.1.2 Raw map



X



Y

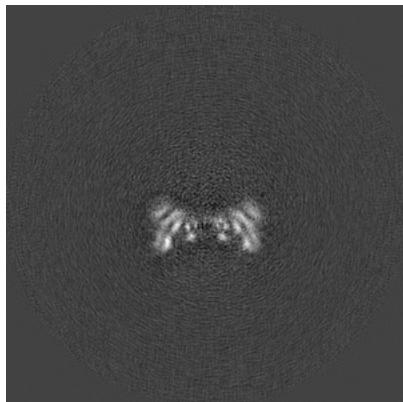


Z

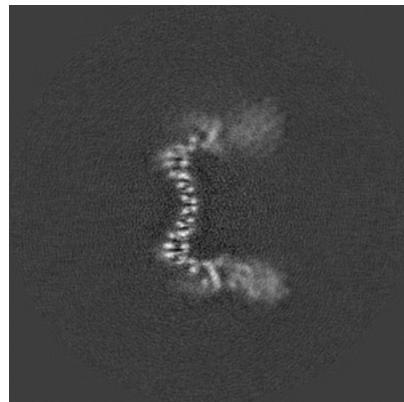
The images above show the map projected in three orthogonal directions.

6.2 Central slices [\(i\)](#)

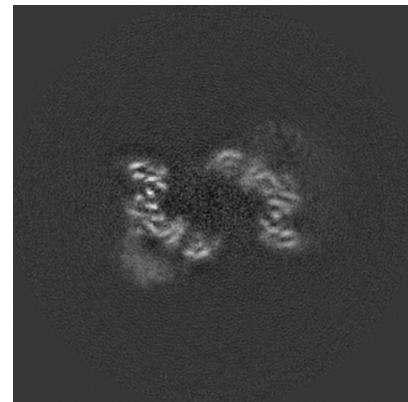
6.2.1 Primary map



X Index: 170

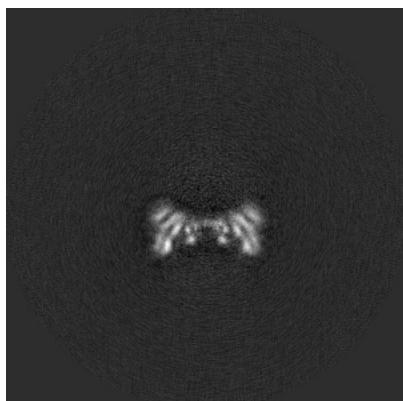


Y Index: 170

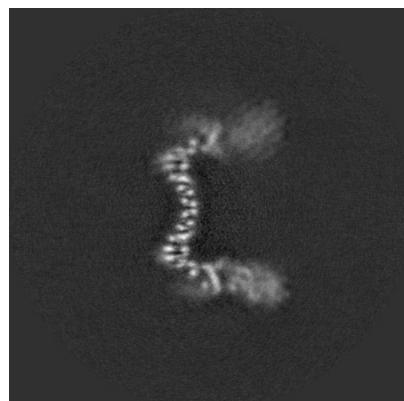


Z Index: 170

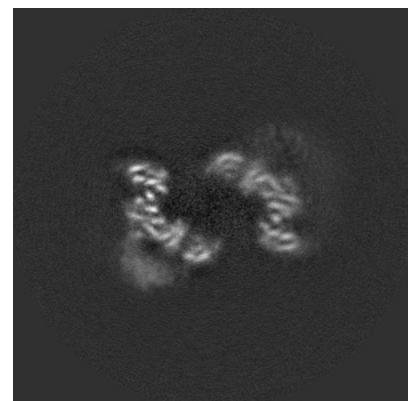
6.2.2 Raw map



X Index: 170



Y Index: 170

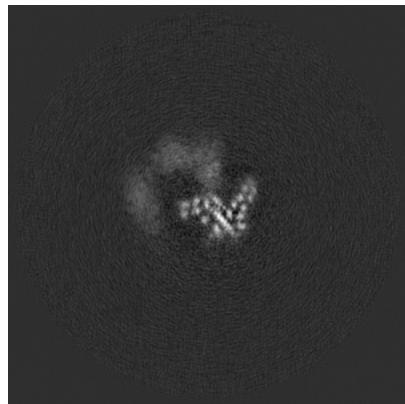


Z Index: 170

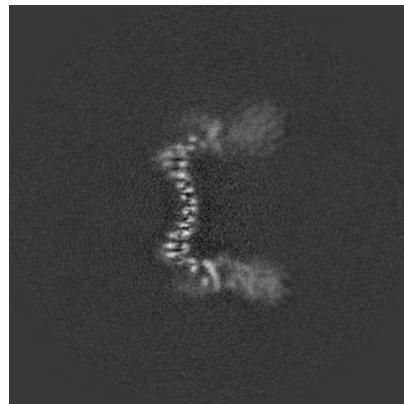
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [\(i\)](#)

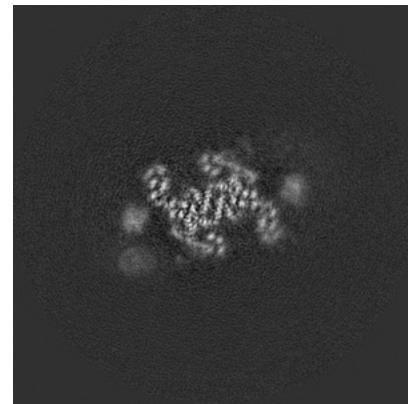
6.3.1 Primary map



X Index: 118

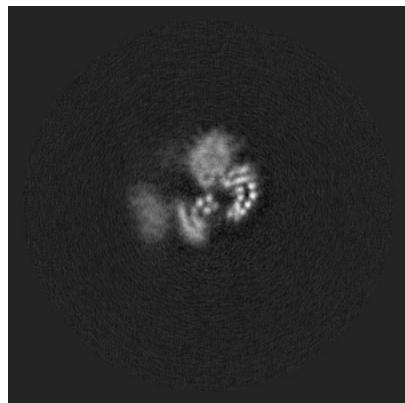


Y Index: 169

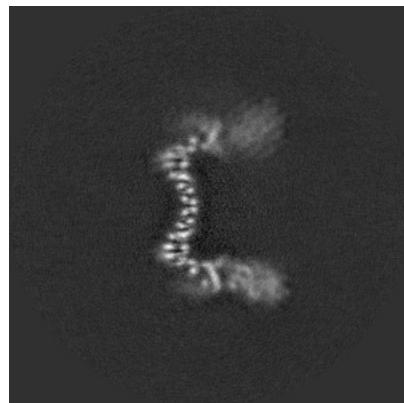


Z Index: 149

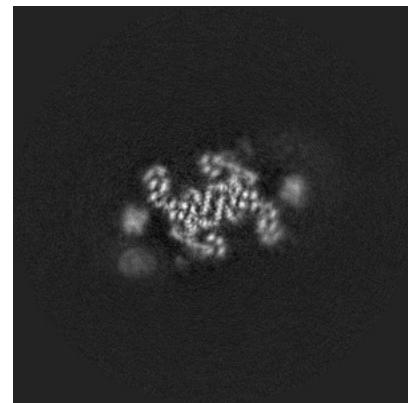
6.3.2 Raw map



X Index: 104



Y Index: 170

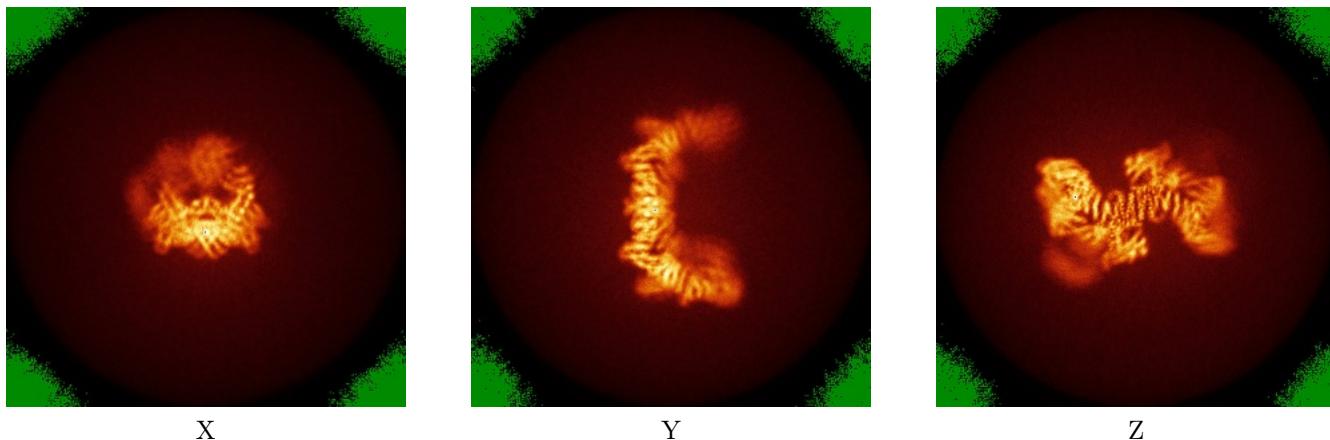


Z Index: 149

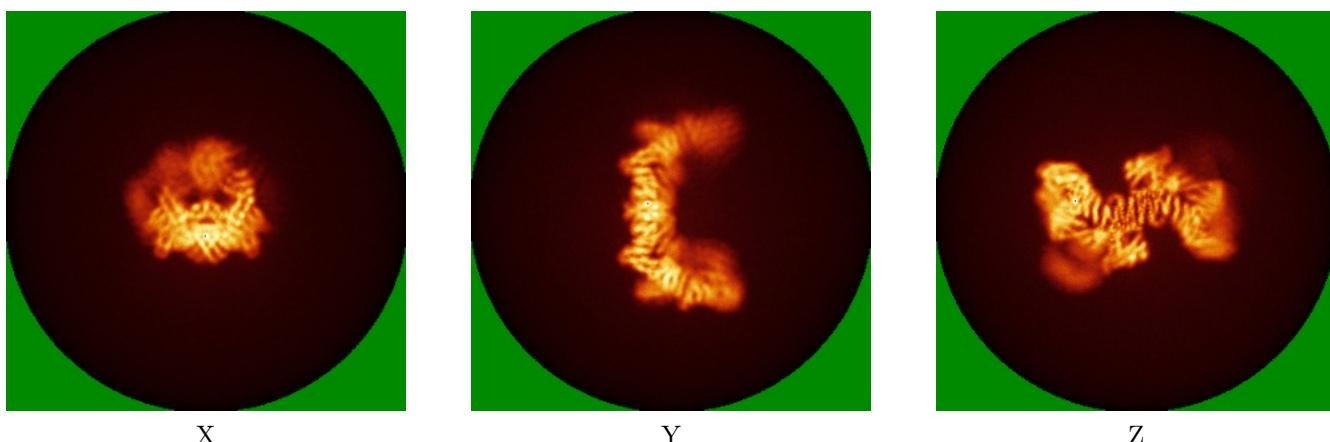
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



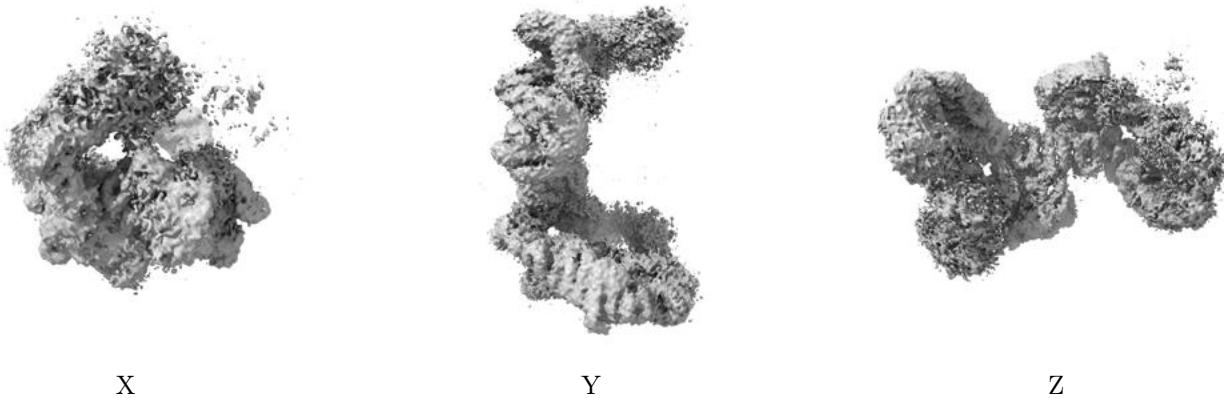
6.4.2 Raw map



The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

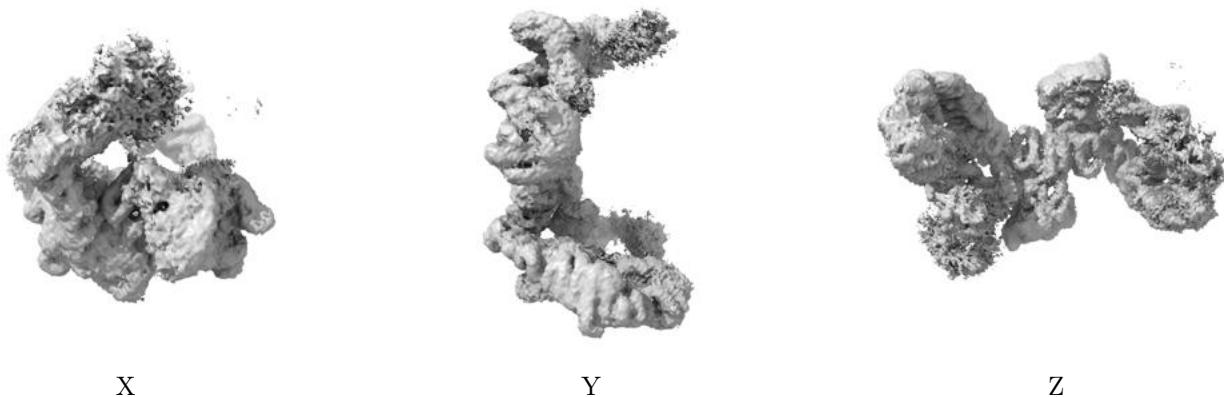
6.5 Orthogonal surface views [\(i\)](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

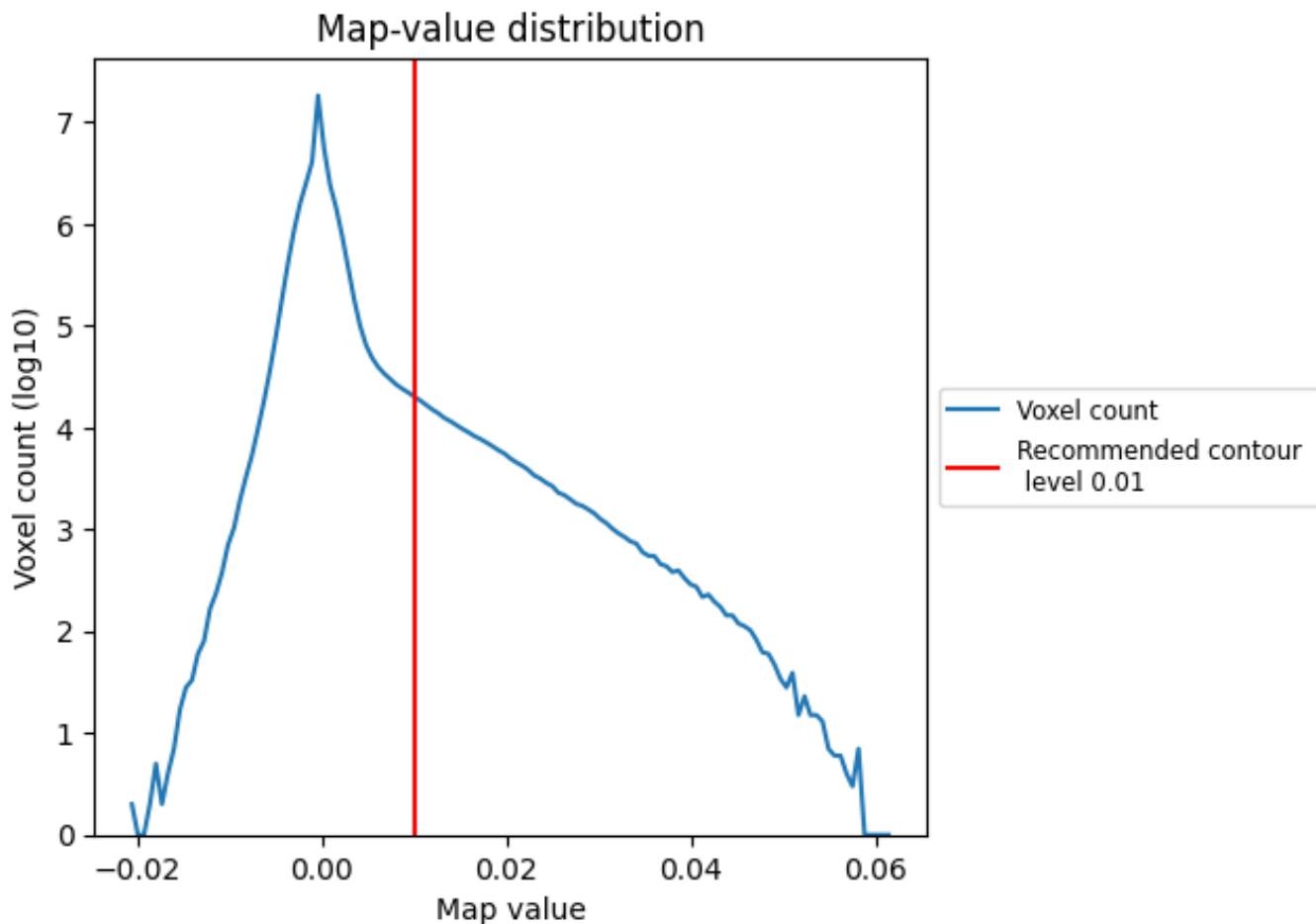
6.6 Mask visualisation [\(i\)](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis (i)

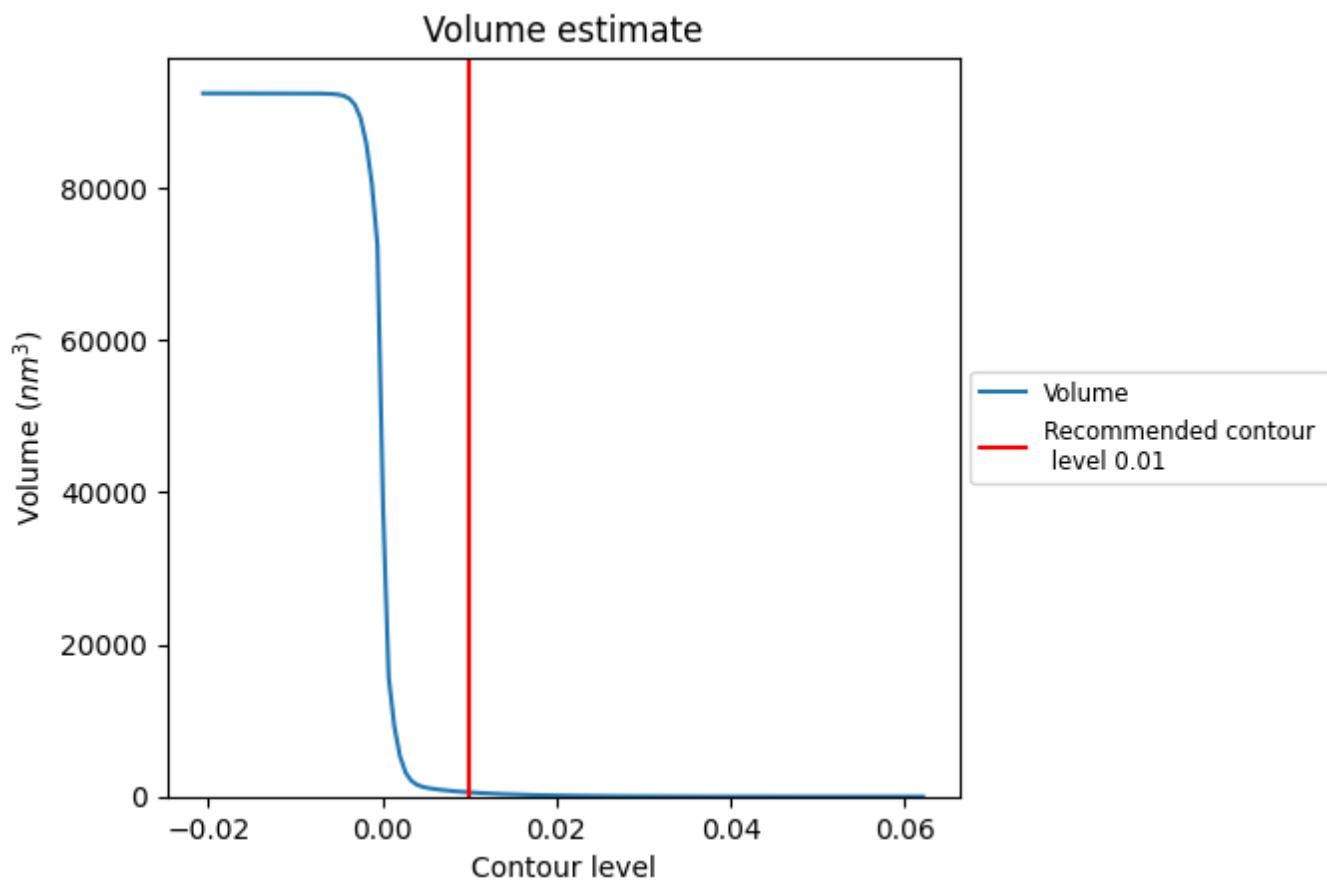
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution (i)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

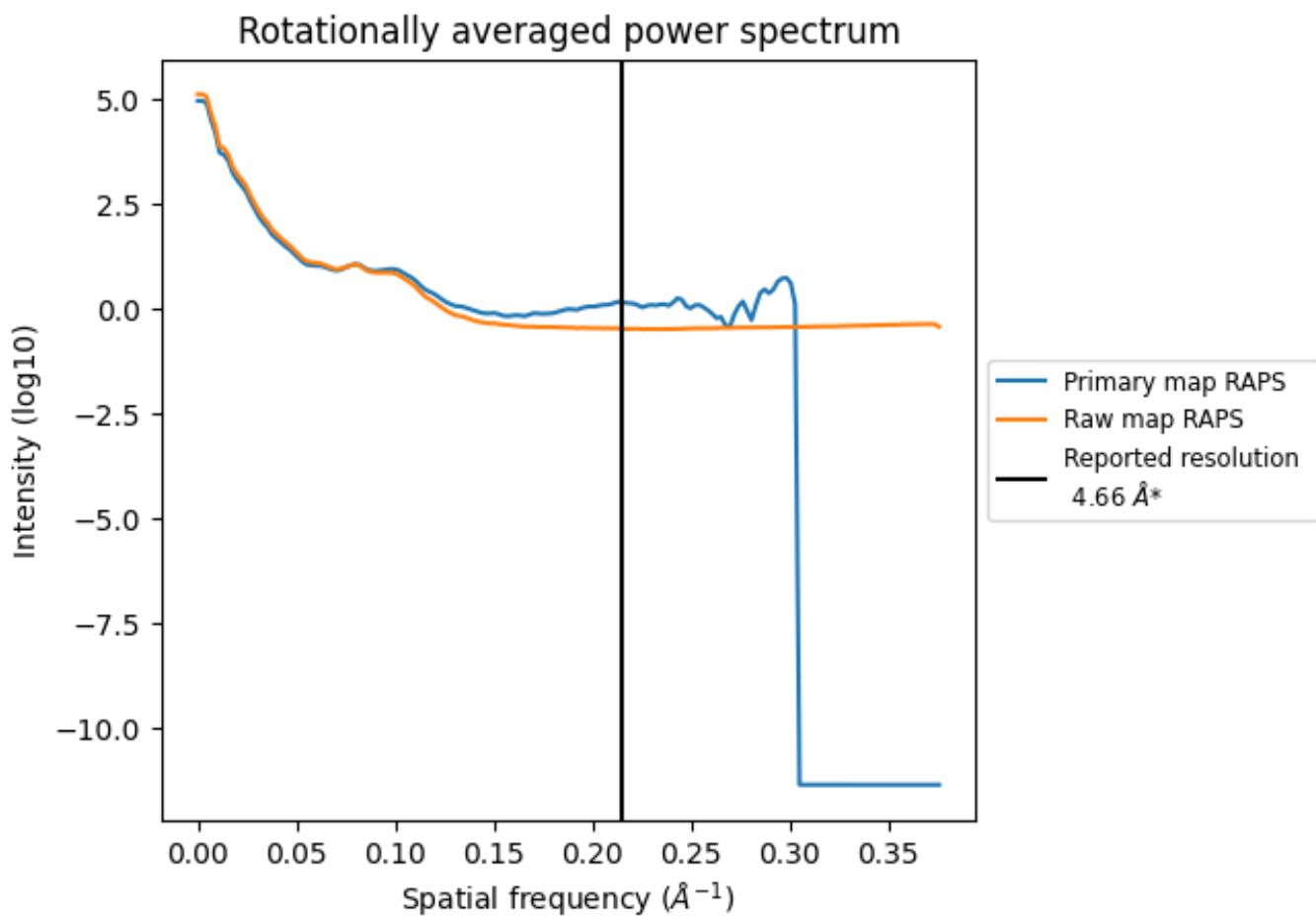
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 551 nm^3 ; this corresponds to an approximate mass of 498 kDa.

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

7.3 Rotationally averaged power spectrum [\(i\)](#)

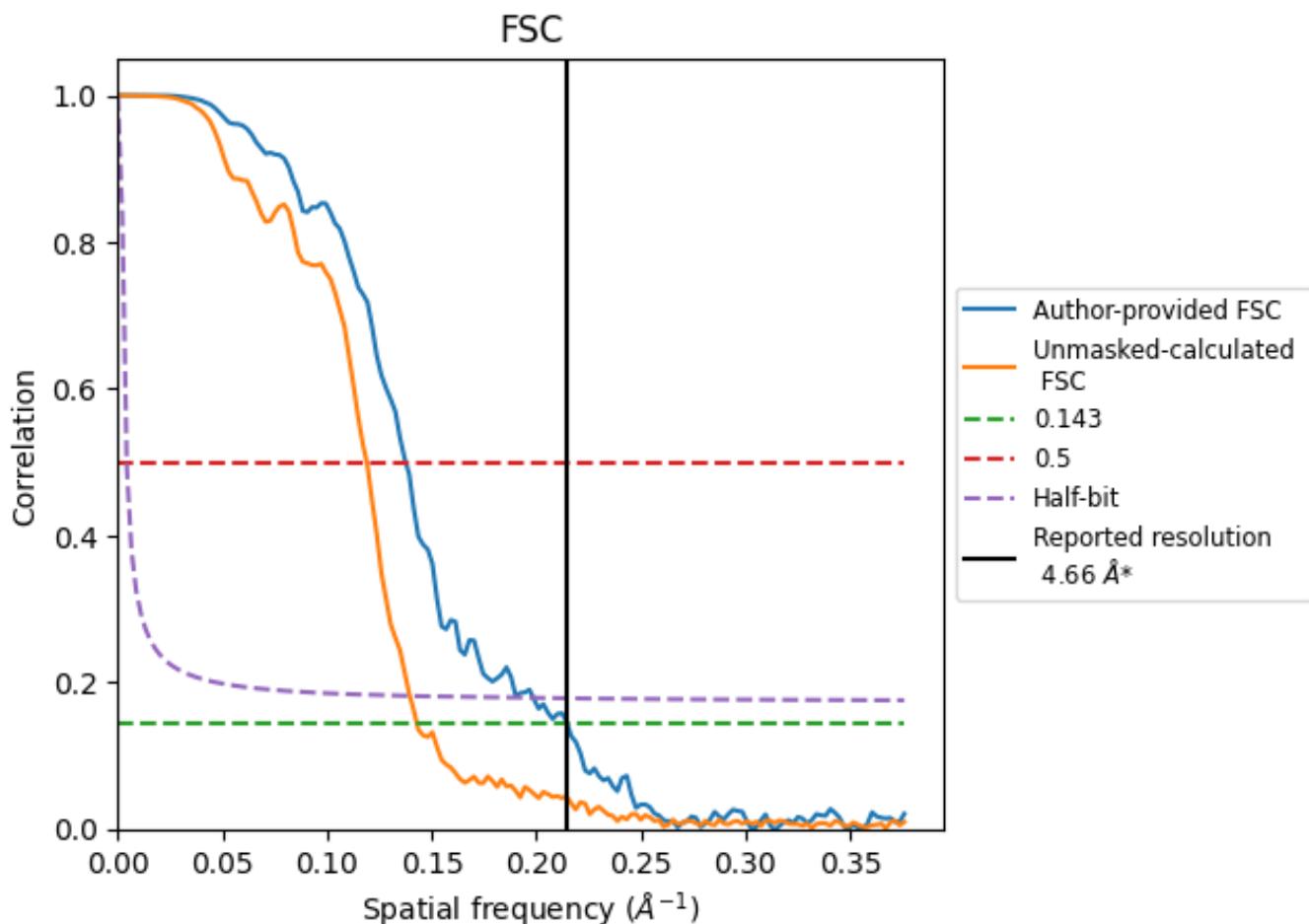


*Reported resolution corresponds to spatial frequency of 0.215 \AA^{-1}

8 Fourier-Shell correlation [\(i\)](#)

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

8.1 FSC [\(i\)](#)



*Reported resolution corresponds to spatial frequency of 0.215 \AA^{-1}

8.2 Resolution estimates [\(i\)](#)

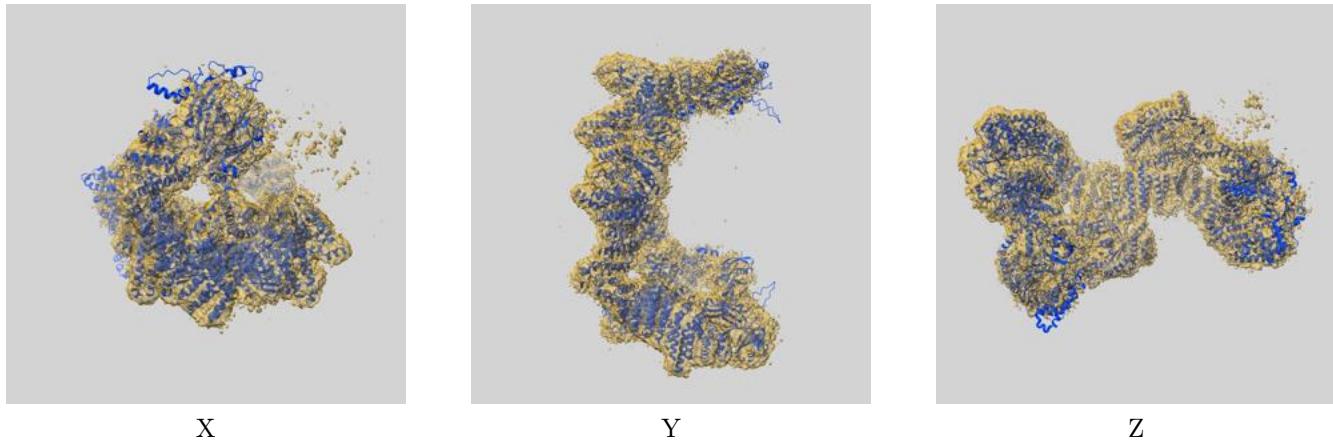
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.66	-	-
Author-provided FSC curve	4.65	7.27	5.03
Unmasked-calculated*	6.99	8.40	7.16

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.99 differs from the reported value 4.66 by more than 10 %

9 Map-model fit i

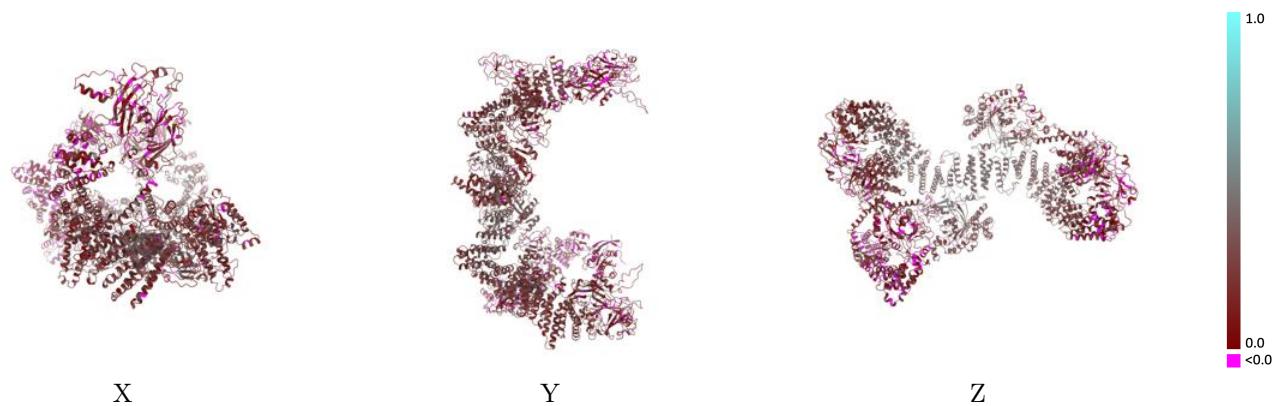
This section contains information regarding the fit between EMDB map EMD-60136 and PDB model 8ZJ2. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay i



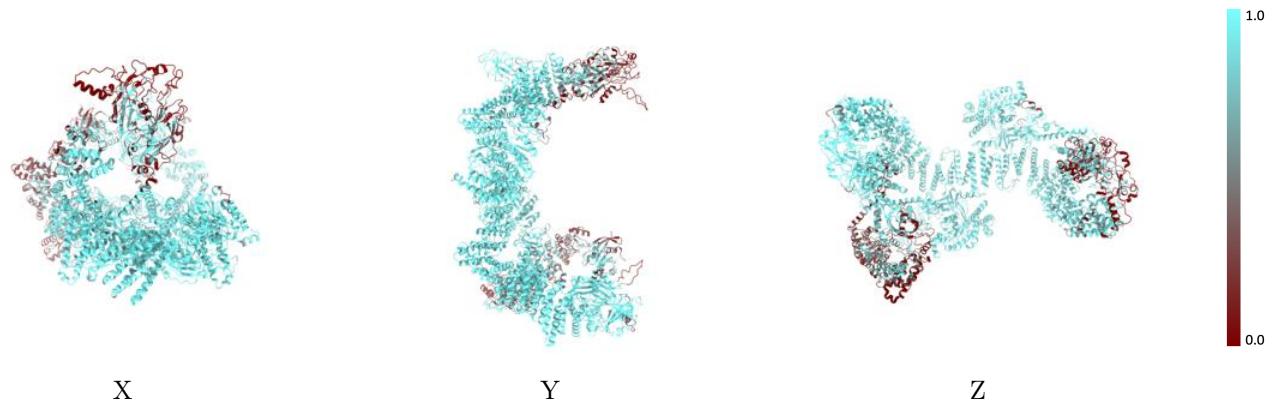
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



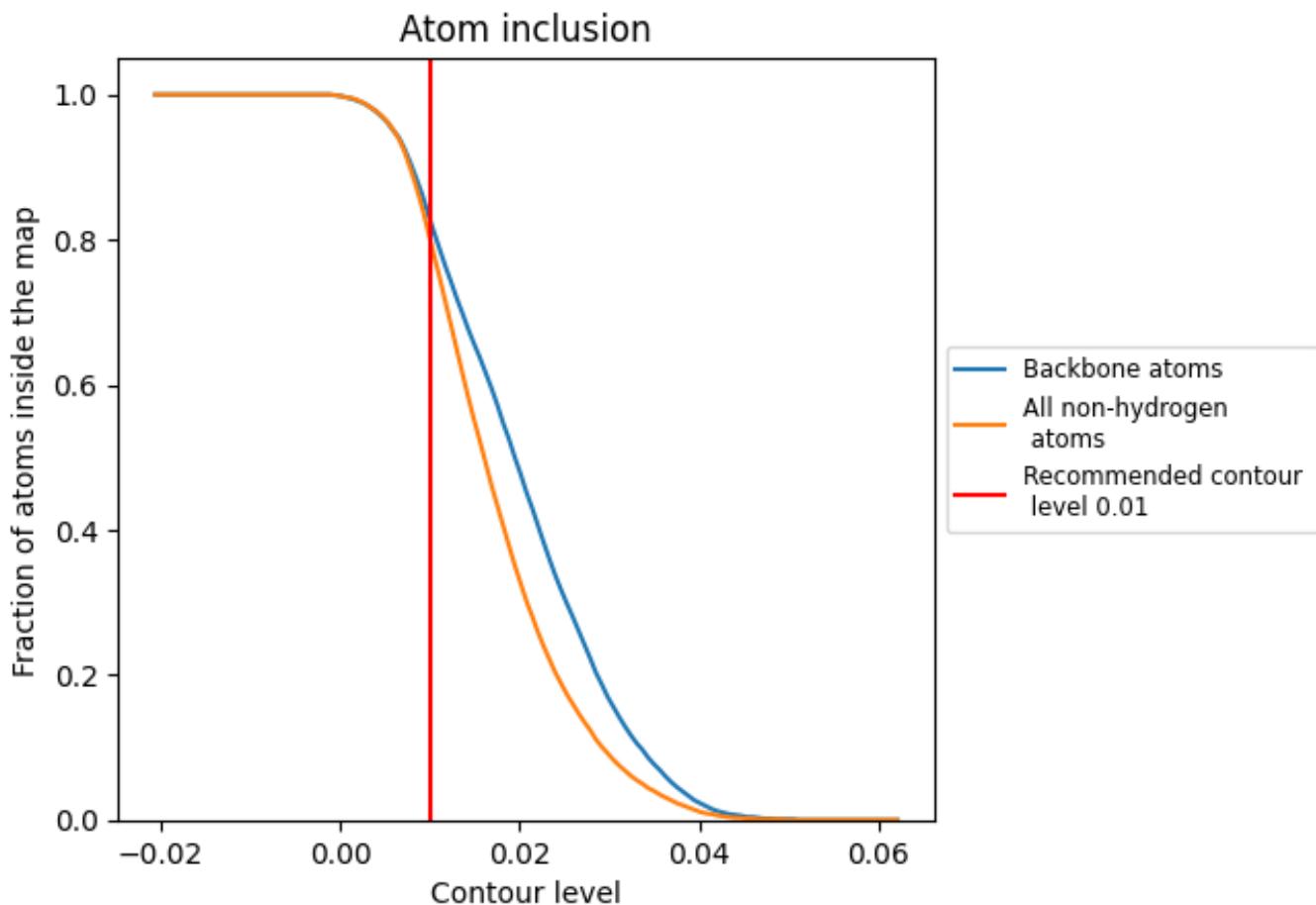
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.01).

9.4 Atom inclusion [\(i\)](#)



At the recommended contour level, 83% of all backbone atoms, 80% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [\(i\)](#)

The table lists the average atom inclusion at the recommended contour level (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8010	0.2310
A	0.4950	0.1540
B	0.9400	0.2700
C	0.9660	0.3030
D	0.6550	0.1510
E	0.8810	0.2070
F	0.7700	0.2260
G	0.9550	0.2650

