



Full wwPDB EM Validation Report ⓘ

Aug 30, 2026 – 12:17 AM JST

PDB ID : 9VM3 / pdb_00009vm3
EMDB ID : EMD-65175
Title : Structure of DOCK6-Cdc42 complex
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Yonemochi, M.;
Hanada, K.; Shirouzu, M.
Deposited on : 2025-06-27
Resolution : 4.52 Å(reported)

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 ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev133
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

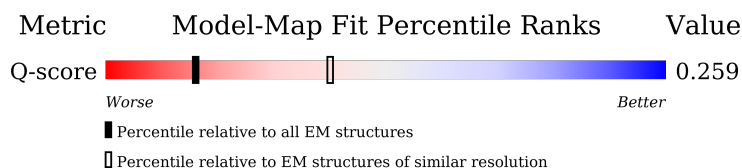
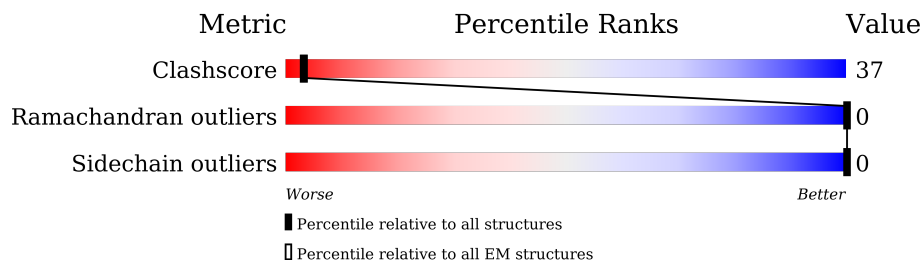
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

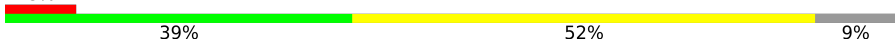
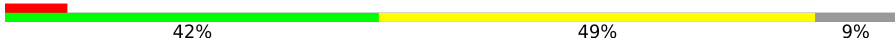
The reported resolution of this entry is 4.52 Å.

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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2506 (4.02 - 5.02)

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 $\leq 5\%$. 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.

Mol	Chain	Length	Quality of chain
1	A	2053	
1	C	2053	
2	B	195	
2	D	195	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 29720 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 Dedicator of cytokinesis protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		
1	C	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q96HP0
A	-4	GLY	-	expression tag	UNP Q96HP0
A	-3	SER	-	expression tag	UNP Q96HP0
A	-2	GLY	-	expression tag	UNP Q96HP0
A	-1	GLY	-	expression tag	UNP Q96HP0
A	0	SER	-	expression tag	UNP Q96HP0
C	-5	GLY	-	expression tag	UNP Q96HP0
C	-4	GLY	-	expression tag	UNP Q96HP0
C	-3	SER	-	expression tag	UNP Q96HP0
C	-2	GLY	-	expression tag	UNP Q96HP0
C	-1	GLY	-	expression tag	UNP Q96HP0
C	0	SER	-	expression tag	UNP Q96HP0

- Molecule 2 is a protein called Cell division control protein 42 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	178	Total	C	N	O	S	0	0
			1389	894	221	267	7		
2	D	178	Total	C	N	O	S	0	0
			1389	894	221	267	7		

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-6	GLY	-	expression tag	UNP P60953

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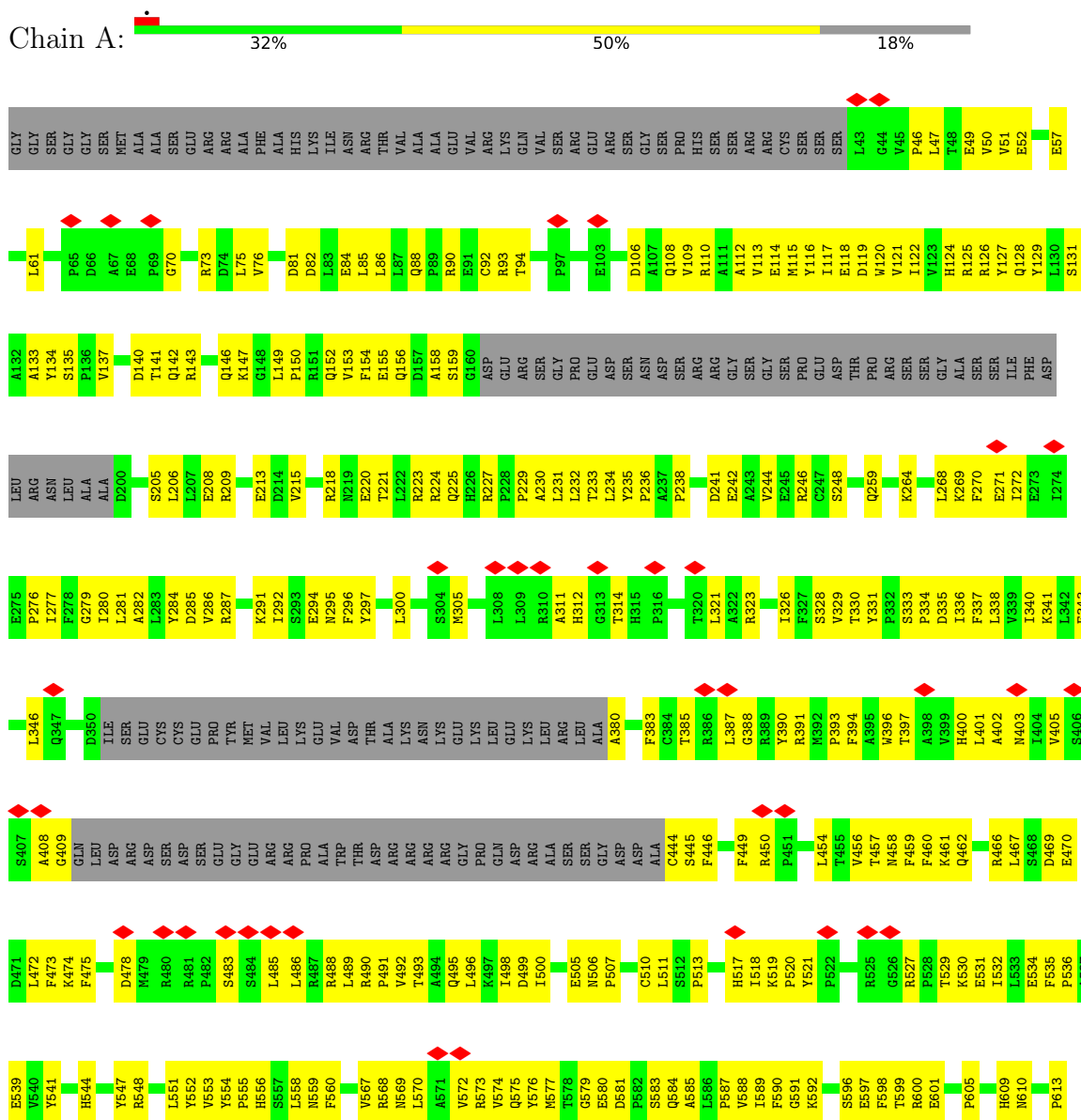
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Chain	Residue	Modelled	Actual	Comment	Reference
B	-5	SER	-	expression tag	UNP P60953
B	-4	SER	-	expression tag	UNP P60953
B	-3	GLY	-	expression tag	UNP P60953
B	-2	SER	-	expression tag	UNP P60953
B	-1	SER	-	expression tag	UNP P60953
B	0	GLY	-	expression tag	UNP P60953
B	15	ALA	GLY	engineered mutation	UNP P60953
B	188	SER	-	expression tag	UNP P60953
D	-6	GLY	-	expression tag	UNP P60953
D	-5	SER	-	expression tag	UNP P60953
D	-4	SER	-	expression tag	UNP P60953
D	-3	GLY	-	expression tag	UNP P60953
D	-2	SER	-	expression tag	UNP P60953
D	-1	SER	-	expression tag	UNP P60953
D	0	GLY	-	expression tag	UNP P60953
D	15	ALA	GLY	engineered mutation	UNP P60953
D	188	SER	-	expression tag	UNP P60953

3 Residue-property plots

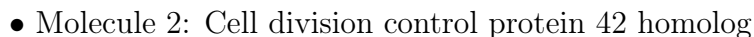
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Deducator of cytokinesis protein 6



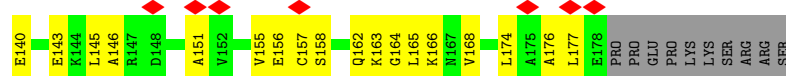
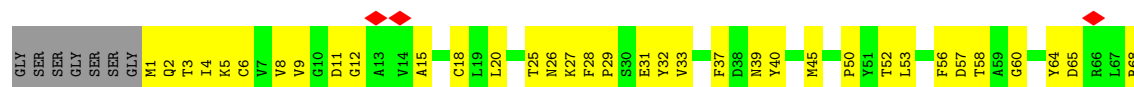
Q1518	P1448	N1383	LYS	E1248	E1116	H1053	I968	ASP	Y835	L764	L688	E614
R1519	E1449	L1384	ALA	S1249	L1119	Y1054	G976	D897	V836	S768	T889	F615
F1520	L1450	T1385	ARG	R1250	A1120	T1055	L977	I902	H837	S769	T890	F616
S1521	L1451	T1386	LEU	T1251	L1121	T1056	L978	L903	Y838	P769	P899	E617
E1523	F1452	E1387	GLU	T1252	L1122	L1057	E979	L907	A839	E770	L694	E618
E1523	E1453	A1388	ARG	L1253	E1122	N1058	N980	L908	F940	P771	L695	F619
H1524	E1454	S1389	LEU	L1254	P1123	L1059	T981	H909	R841	L772	P696	K620
L1525	D1455	A1265	ALA	A1266	E1124	P1060	K985	E910	L842	V773	G896	L621
R1526	T1456	C1266	SER	V1267	C1061	C1062		H909	P843	W774	M697	H622
E1527		V1267	MET	L1268	P1062	P1063		E910	G944	F775		
S1528	L1462	T1268	LEU	A1128	A1128	L1064	N994	L912	F947	H777	H703	
L1529	C1463	V1269	ASP	F1129	F1129	S1065	A995	L912	SER	K704	A625	C826
K1530	L1464	L1260	SER	L1130	L1130	PRO	S996	A913	LEU	V778	V706	V627
T1531	E1387	L1261	ASP	H1131	H1131	PRO	A998	L914	ASP	W779	F707	
L1532	I1398	K1262	THR	K1133	K1133	ALA	A998	Q915	PRO	D781	S708	M630
L1533	L1467	T1263	GLU	L1142	L1142	SER	F999	W916	GLY	L782	V709	H631
R1534	R1468	T1264	GLY	K1134	K1134	PRO	F1000	V917	ALA	L783	V709	H632
Y1535	L1469	E1265	GLU	A1135	A1135	PRO	F1000	V918	ALA	L784	E710	L633
A1536		P1266	GLY	L1136	L1136	SER	S1002	S919	PRO	R785	L711	
E1537	S1472	A1267	ASP	A1138	A1138	PRO	D1003	S920	VAL	L786	T712	T636
E1538	R1473	L1268	ALA	V1139	V1139	VAL	L1004	R924	THR	L787	S715	F637
D1539	S1475	A1405	GLY	H1140	H1140	SER	L1005	I927	VAL	L788	S716	Y638
		S1406	THR	S1141	S1141	SER	S1006	L928	GLN	W789	V717	H639
L1542	T1476	R1409	THR	L1142	L1142	THR	L1007		ALA	P790	V717	V640
R1543	R1477	E1410	ASN	L1143	L1143	THR	V1008		ALA	P791	H718	S641
D1544	R1478	S1411	ASN	C1144	C1144	SER	D1009		THR	L792	P719	C642
S1545	T1479	D1275	PRO	G1145	G1145	GLN	R1010		LEU	W793	Q720	
T1546	H1480	L1276	SER	H1146	H1146	SER	G1011		ALA	D721	D721	R645
F1547	A1481	D1276	VAL	D1147	D1147	SER	F1012		ARG	Q796	L724	T648
	S1482	P1279	ALA			THR	V1013		GLY	L797	D725	A649
Q1550	A1483	R1283	MET	R1151	R1151	THR	F1013		GLY	W798	K726	L650
V1551	S1484	L1284	ALA	Y1152	Y1152	PHE	Q936		GLY	N799	F727	E651
K1552	L1485	T1285	ALA	A1153	A1153	SER	L1015		ARG	F728	V728	T652
D1553	K1418	D1286	GLY	E1154	E1154	SER	V1017		PRO	R802	L729	
L1554	V1419	L1287	GLY	A1155	A1155	PRO	R1018		ALA	G803	W730	G655
M1555	L1420	L1288	PRO	T1156	T1156	LEU	K1022		SER	A804	F731	F656
F1556	L1421		LEU	V1157	V1157	PRO	A1025		TYR	E806	H732	T657
N1557	Y1422	A1293	ALA			P1091			LEU	A807	E735	W658
L1558	S1423	A1294	PRO	R1160	R1160	V1093	L944		LEU	M808	E736	I659
H1559			GLY	V1161	V1161	S1095	H945		ALA	A809	P860	P660
M1560	S1426	Y1297	SER	A1162	A1162	M1096	L1028		ARG	H810	L661	L661
I1561	A1427		ARG	E1163	E1163	F1097	Q1029		SER	V811	Q663	
L1562	Q1428	K1300	ALA	L1164	L1164	E1098	P1034		LYS	V812	P740	L662
T1563	S1429	K1301	SER	Y1165	Y1165	L1099			ILE	S813	R742	
L1564	A1430		ILE	P1167	P1167				SER	V815	L743	
T1565		E1304	GLN	L1168	L1168	P1102	L1038		SER	H816	T669	
V1566	L1433	R1305	GLY			F1103	L1039		SER	P955	T746	
K1567	Q1434	I1306	PRO	I1171	I1171	R1104	L1040		ASN	R817	V747	
M1568	H1435	N1307	THR	T1175	T1175	Q1105	R1041		PRO	Q823	L748	C673
K1569	G1436	SER	GLY			H1106	M1042		LEU	S749	L674	L674
E1570	L1437	LEU	PRO			H1107	E1043		ASP	E750	S877	V678
M1571	A1438	THR	THR	R1178	R1178	F1108	F1044		LEU	G827	G751	V678
Q1572	T1439	PHE	ALA			L1109	R1045		VAL	H828	N752	D679
E1573	Q1440	LYS	ARG	D1181	D1181	A1110	C1049		ALA	C929	V753	Q680
S1574	R1441	LEU	ALA	F1182	F1182	G1111	S1050		ALA	L681	E754	P681
L1575	A1442	SER	ALA	E1183	E1183	L1112	H1051		GLY	S760		
V1576	L1443	ASP	GLY	A1243	A1243	L1113	E1052		VAL			
M1577	G1446	LEU	GLY			L1114						
L1578	F1447	ASP	ALA	A1247	A1247	L1115						
I1579		MET										







• Molecule 2: Cell division control protein 42 homolog



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	370326	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	48.5	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	0.077	Depositor
Minimum map value	-0.030	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

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.34	0/13787	0.53	2/18706 (0.0%)
1	C	0.34	0/13787	0.53	2/18706 (0.0%)
2	B	0.22	0/1419	0.43	0/1932
2	D	0.22	0/1419	0.43	0/1932
All	All	0.33	0/30412	0.52	4/41276 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1446	LYS	CA-C-N	-5.11	116.59	122.52
1	C	1446	LYS	C-N-CA	-5.11	116.59	122.52
1	A	1446	LYS	CA-C-N	-5.11	116.60	122.52
1	A	1446	LYS	C-N-CA	-5.11	116.60	122.52

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	13471	0	13448	1040	0
1	C	13471	0	13448	1021	0
2	B	1389	0	1407	105	0
2	D	1389	0	1407	90	0
All	All	29720	0	29710	2202	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 37.

All (2202) 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:A:259:GLN:HB2	1:A:329:VAL:HB	1.45	0.99
1:C:259:GLN:HB2	1:C:329:VAL:HB	1.45	0.96
1:A:1849:THR:HA	1:A:1876:LEU:O	1.67	0.93
1:C:1849:THR:HA	1:C:1876:LEU:O	1.67	0.93
1:A:1749:GLY:HA3	1:A:1773:GLU:O	1.69	0.92
1:C:1749:GLY:HA3	1:C:1773:GLU:O	1.69	0.92
1:A:792:ILE:HG12	1:A:797:ILE:HG22	1.52	0.91
1:A:127:TYR:HB2	1:A:1053:HIS:HE2	1.37	0.90
1:C:127:TYR:HB2	1:C:1053:HIS:HE2	1.37	0.90
1:C:1653:ASN:HD21	1:C:1881:ALA:H	1.21	0.89
1:C:792:ILE:HG12	1:C:797:ILE:HG22	1.52	0.89
1:C:1247:ALA:O	1:C:1251:ARG:HB2	1.73	0.88
1:A:1247:ALA:O	1:A:1251:ARG:HB2	1.73	0.88
1:A:1653:ASN:HD21	1:A:1881:ALA:H	1.21	0.87
1:A:660:PRO:O	1:A:668:ARG:NH2	2.08	0.86
1:C:660:PRO:O	1:C:668:ARG:NH2	2.08	0.86
1:C:1999:TYR:O	1:C:2002:GLU:HB2	1.76	0.86
1:A:1999:TYR:O	1:A:2002:GLU:HB2	1.76	0.85
1:C:1259:TRP:O	1:C:1263:ASN:ND2	2.11	0.84
1:C:965:LEU:HA	1:C:968:ILE:HD12	1.60	0.84
1:A:965:LEU:HA	1:A:968:ILE:HD12	1.60	0.83
1:A:1259:TRP:O	1:A:1263:ASN:ND2	2.11	0.83
1:A:280:ILE:HA	1:A:296:PHE:O	1.79	0.83
1:C:1966:HIS:HA	1:C:1969:LYS:HE2	1.61	0.83
1:A:90:ARG:HG3	1:A:119:ASP:HA	1.61	0.82
1:C:280:ILE:HA	1:C:296:PHE:O	1.79	0.82
1:A:1966:HIS:HA	1:A:1969:LYS:HE2	1.61	0.81
1:C:931:ALA:HA	1:C:934:PHE:HD2	1.45	0.81
1:C:1410:GLU:HG2	1:C:1411:SER:H	1.45	0.81
2:D:92:ASN:ND2	2:D:95:GLU:OE2	2.14	0.81
1:C:90:ARG:HG3	1:C:119:ASP:HA	1.61	0.81
1:A:931:ALA:HA	1:A:934:PHE:HD2	1.45	0.81
1:A:1877:SER:HB3	1:A:1893:HIS:HB3	1.62	0.81
2:B:92:ASN:ND2	2:B:95:GLU:OE2	2.13	0.81
1:A:269:LYS:HB2	1:A:495:GLN:HB3	1.62	0.81
1:A:343:GLU:HA	1:A:393:PRO:HA	1.61	0.80
1:A:1501:ARG:O	1:A:1505:GLN:NE2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1410:GLU:HG2	1:A:1411:SER:H	1.45	0.80
1:C:1877:SER:HB3	1:C:1893:HIS:HB3	1.61	0.80
2:D:158:SER:HB3	2:D:163:LYS:H	1.46	0.80
1:C:269:LYS:HB2	1:C:495:GLN:HB3	1.62	0.80
1:C:1285:LEU:HD11	1:C:1396:LEU:HD11	1.64	0.80
1:A:1620:MET:HE2	1:A:1690:ALA:HB2	1.64	0.79
1:A:1848:ARG:NH2	1:A:1878:THR:O	2.14	0.79
1:C:343:GLU:HA	1:C:393:PRO:HA	1.62	0.79
1:C:1501:ARG:O	1:C:1505:GLN:NE2	2.14	0.79
1:C:1848:ARG:NH2	1:C:1878:THR:O	2.14	0.79
1:C:1960:ASP:HB3	1:C:1963:LEU:HB2	1.63	0.79
1:A:568:ARG:O	1:A:610:ASN:N	2.14	0.79
1:C:1472:SER:O	1:C:1478:ARG:NH2	2.16	0.79
1:A:1763:ASP:O	1:A:1767:GLN:NE2	2.16	0.79
1:C:472:LEU:HA	1:C:475:PHE:HD2	1.49	0.78
1:C:1620:MET:HE2	1:C:1690:ALA:HB2	1.64	0.78
1:C:1763:ASP:O	1:C:1767:GLN:NE2	2.16	0.78
1:C:206:LEU:HD11	1:C:1441:ARG:HE	1.49	0.78
1:A:1960:ASP:HB3	1:A:1963:LEU:HB2	1.63	0.78
1:C:1749:GLY:CA	1:C:1773:GLU:O	2.31	0.78
1:A:1285:LEU:HD11	1:A:1396:LEU:HD11	1.64	0.78
1:A:1472:SER:O	1:A:1478:ARG:NH2	2.16	0.78
1:A:472:LEU:HA	1:A:475:PHE:HD2	1.49	0.77
1:A:1749:GLY:CA	1:A:1773:GLU:O	2.31	0.77
1:A:1950:ALA:O	1:A:1954:LEU:HB2	1.85	0.77
1:C:960:PHE:HB2	1:C:965:LEU:HD11	1.66	0.77
1:A:466:ARG:NH1	1:A:614:GLU:O	2.18	0.77
1:C:1572:GLN:HA	1:C:1578:LEU:HD21	1.65	0.77
1:C:554:TYR:HB2	1:C:710:GLU:HB3	1.67	0.77
1:C:466:ARG:NH1	1:C:614:GLU:O	2.17	0.77
1:A:960:PHE:HB2	1:A:965:LEU:HD11	1.67	0.77
1:C:142:GLN:NE2	1:C:235:TYR:O	2.18	0.77
1:C:90:ARG:NH2	1:C:115:MET:O	2.18	0.77
1:A:1572:GLN:HA	1:A:1578:LEU:HD21	1.65	0.77
1:A:1426:SER:OG	1:A:1428:GLN:NE2	2.18	0.76
2:B:158:SER:HB3	2:B:163:LYS:H	1.46	0.76
1:C:1950:ALA:O	1:C:1954:LEU:HB2	1.85	0.76
1:A:206:LEU:HD11	1:A:1441:ARG:HE	1.49	0.76
1:C:1059:LEU:HG	1:C:1062:CYS:HB2	1.68	0.76
1:C:380:ALA:HA	1:C:383:PHE:HD2	1.51	0.76
1:C:467:LEU:HD21	1:C:472:LEU:HD13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1781:GLU:OE1	2:D:166:LYS:NZ	2.17	0.76
1:A:248:SER:OG	1:A:826:ARG:NH2	2.19	0.76
1:A:1580:ASP:OD2	1:A:1888:ARG:NH2	2.18	0.76
1:C:630:ASN:O	1:C:632:HIS:ND1	2.17	0.76
1:A:1650:ILE:O	1:A:1845:TYR:OH	2.04	0.76
1:A:1855:PRO:HG3	2:B:33:VAL:HA	1.68	0.76
1:A:1871:LYS:O	1:A:1898:VAL:HA	1.86	0.76
1:C:76:VAL:HA	1:C:1056:THR:HG23	1.68	0.76
1:C:1863:HIS:NE2	2:D:32:TYR:O	2.19	0.76
1:A:84:GLU:OE2	1:A:124:HIS:ND1	2.17	0.76
1:A:90:ARG:NH2	1:A:115:MET:O	2.18	0.76
1:C:1426:SER:OG	1:C:1428:GLN:NE2	2.18	0.76
1:A:554:TYR:HB2	1:A:710:GLU:HB3	1.67	0.75
1:A:142:GLN:NE2	1:A:235:TYR:O	2.18	0.75
1:A:380:ALA:HA	1:A:383:PHE:HD2	1.51	0.75
1:A:1566:VAL:HA	1:A:1569:LYS:HD2	1.69	0.75
1:C:568:ARG:O	1:C:610:ASN:N	2.14	0.75
1:A:1878:THR:HG22	1:A:1891:VAL:HA	1.69	0.75
1:C:931:ALA:HA	1:C:934:PHE:CD2	2.22	0.75
1:C:1580:ASP:OD2	1:C:1888:ARG:NH2	2.17	0.75
1:C:1871:LYS:O	1:C:1898:VAL:HA	1.86	0.75
1:A:1058:ASN:HD21	1:A:1109:LEU:HB2	1.51	0.74
1:C:1058:ASN:OD1	1:C:1109:LEU:N	2.19	0.74
1:C:1531:THR:O	1:C:1534:THR:OG1	2.04	0.74
1:A:76:VAL:HA	1:A:1056:THR:HG23	1.68	0.74
1:A:82:ASP:OD2	1:A:1006:SER:OG	2.05	0.74
1:C:1499:PHE:O	1:C:1502:VAL:N	2.17	0.74
1:A:630:ASN:O	1:A:632:HIS:ND1	2.17	0.74
1:C:1878:THR:HG22	1:C:1891:VAL:HA	1.69	0.74
1:C:1058:ASN:HD21	1:C:1109:LEU:HB2	1.51	0.74
1:C:1399:ILE:O	1:C:1402:THR:OG1	2.05	0.74
1:A:467:LEU:HD21	1:A:472:LEU:HD13	1.68	0.74
1:C:231:LEU:HB2	1:C:1262:LYS:HZ3	1.52	0.74
1:C:1650:ILE:O	1:C:1845:TYR:OH	2.04	0.74
1:A:1399:ILE:O	1:A:1402:THR:OG1	2.05	0.74
1:C:248:SER:OG	1:C:826:ARG:NH2	2.19	0.74
2:D:116:GLN:HG3	2:D:119:LEU:HD12	1.69	0.74
1:A:911:GLU:O	1:A:915:GLN:NE2	2.21	0.74
1:A:1059:LEU:HG	1:A:1062:CYS:HB2	1.68	0.74
1:A:1498:ASN:O	1:A:1501:ARG:NH2	2.20	0.74
1:A:1531:THR:O	1:A:1534:THR:OG1	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1498:ASN:O	1:C:1501:ARG:NH2	2.20	0.74
1:A:1862:ALA:O	1:A:1869:GLN:NE2	2.21	0.73
1:C:82:ASP:OD2	1:C:1006:SER:OG	2.05	0.73
1:A:1533:LEU:HD21	1:A:1555:MET:HG2	1.71	0.73
1:A:1780:ALA:HB3	2:B:166:LYS:HZ2	1.54	0.73
1:C:1566:VAL:HA	1:C:1569:LYS:HD2	1.69	0.73
1:A:931:ALA:HA	1:A:934:PHE:CD2	2.22	0.73
1:A:1587:ARG:HA	1:A:1596:ARG:HH12	1.52	0.73
1:C:1587:ARG:HA	1:C:1596:ARG:HH12	1.51	0.73
1:C:1260:VAL:O	1:C:1264:THR:OG1	2.06	0.73
1:C:911:GLU:O	1:C:915:GLN:NE2	2.21	0.73
1:C:1701:GLU:OE1	1:C:1701:GLU:N	2.21	0.73
1:C:915:GLN:O	1:C:919:SER:N	2.22	0.73
1:C:1756:PHE:O	1:C:1766:GLU:CA	2.37	0.73
1:A:632:HIS:HA	1:A:661:LEU:HG	1.71	0.72
2:B:116:GLN:HG3	2:B:119:LEU:HD12	1.69	0.72
1:A:1701:GLU:OE1	1:A:1701:GLU:N	2.21	0.72
1:C:84:GLU:OE2	1:C:124:HIS:ND1	2.17	0.72
1:C:1533:LEU:HD21	1:C:1555:MET:HG2	1.71	0.72
1:A:466:ARG:HE	1:A:616:TYR:HD1	1.35	0.72
1:C:909:HIS:ND1	1:C:941:SER:OG	2.11	0.72
1:A:1464:LEU:HD21	1:A:1468:ARG:HH21	1.54	0.72
1:C:1464:LEU:HD21	1:C:1468:ARG:HH21	1.54	0.72
1:C:1992:ILE:HG21	1:C:2000:HIS:HB2	1.71	0.72
1:A:1260:VAL:O	1:A:1264:THR:OG1	2.06	0.72
1:A:915:GLN:O	1:A:919:SER:N	2.22	0.71
1:C:466:ARG:HE	1:C:616:TYR:HD1	1.35	0.71
1:A:1756:PHE:O	1:A:1766:GLU:CA	2.37	0.71
1:A:1776:ILE:HD12	2:B:45:MET:HE3	1.72	0.71
1:A:1499:PHE:O	1:A:1502:VAL:N	2.17	0.71
1:A:75:LEU:O	1:A:1056:THR:OG1	2.09	0.71
1:A:1992:ILE:HG21	1:A:2000:HIS:HB2	1.71	0.71
1:A:1533:LEU:HD11	1:A:1555:MET:HE3	1.72	0.71
1:C:133:ALA:HA	1:C:246:ARG:HD2	1.72	0.71
1:A:1058:ASN:OD1	1:A:1109:LEU:N	2.19	0.71
1:C:1756:PHE:O	1:C:1766:GLU:HA	1.91	0.71
1:C:632:HIS:HA	1:C:661:LEU:HG	1.72	0.70
1:C:911:GLU:HB3	1:C:915:GLN:HE22	1.56	0.70
1:A:911:GLU:HB3	1:A:915:GLN:HE22	1.56	0.70
1:A:920:SER:O	1:A:924:ARG:N	2.23	0.70
1:C:93:ARG:NH2	1:C:505:GLU:O	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:599:THR:HG22	1:A:600:ARG:H	1.57	0.70
1:A:1396:LEU:HA	1:A:1399:ILE:HD12	1.73	0.70
1:C:1396:LEU:HA	1:C:1399:ILE:HD12	1.73	0.70
1:C:1533:LEU:HD11	1:C:1555:MET:HE3	1.72	0.70
1:A:93:ARG:NH2	1:A:505:GLU:O	2.25	0.70
1:C:656:PHE:N	1:C:677:SER:O	2.22	0.70
1:C:1862:ALA:O	1:C:1869:GLN:NE2	2.21	0.70
1:A:539:GLU:HB3	1:A:770:GLU:HG2	1.74	0.70
1:C:539:GLU:HB3	1:C:770:GLU:HG2	1.74	0.70
1:C:599:THR:HG22	1:C:600:ARG:H	1.57	0.70
1:A:57:GLU:OE1	1:A:1010:ARG:N	2.25	0.69
1:A:133:ALA:HA	1:A:246:ARG:HD2	1.72	0.69
1:C:1558:LEU:HA	1:C:1561:ILE:HD12	1.73	0.69
1:A:231:LEU:HB2	1:A:1262:LYS:HZ2	1.56	0.69
2:B:78:PHE:HB2	2:B:110:PHE:HB3	1.74	0.69
1:A:1558:LEU:HA	1:A:1561:ILE:HD12	1.73	0.69
1:A:1756:PHE:O	1:A:1766:GLU:HA	1.92	0.69
1:C:1837:ARG:NH1	1:C:1842:ASP:O	2.26	0.69
1:A:1837:ARG:NH1	1:A:1842:ASP:O	2.26	0.69
1:A:1863:HIS:NE2	2:B:32:TYR:O	2.25	0.69
1:A:1620:MET:HE1	1:A:1686:LEU:O	1.93	0.69
1:A:656:PHE:N	1:A:677:SER:O	2.22	0.69
1:C:1620:MET:HE1	1:C:1686:LEU:O	1.93	0.69
1:A:1455:ASP:OD1	1:A:1456:THR:N	2.25	0.68
1:A:2009:ARG:O	1:A:2013:ALA:N	2.24	0.68
1:C:57:GLU:OE1	1:C:1010:ARG:N	2.25	0.68
1:A:1437:LEU:O	1:A:1440:GLN:NE2	2.25	0.68
1:C:1437:LEU:O	1:C:1440:GLN:NE2	2.26	0.68
1:A:1128:ALA:HA	1:A:1131:LEU:HD13	1.75	0.68
1:C:1128:ALA:HA	1:C:1131:LEU:HD13	1.75	0.68
1:C:553:VAL:HB	1:C:619:PHE:HB2	1.76	0.68
2:D:78:PHE:HB2	2:D:110:PHE:HB3	1.74	0.68
1:C:1770:VAL:O	1:C:1888:ARG:HA	1.94	0.68
1:C:920:SER:O	1:C:924:ARG:N	2.23	0.68
1:A:390:TYR:OH	1:A:651:GLU:OE2	2.12	0.67
1:A:1160:ARG:O	1:A:1163:GLU:HB3	1.94	0.67
1:A:49:GLU:O	1:A:1104:ARG:NH2	2.28	0.67
1:C:1577:MET:SD	1:C:1888:ARG:NH2	2.65	0.67
1:A:1555:MET:HA	1:A:1558:LEU:HD12	1.76	0.67
1:A:1893:HIS:NE2	1:A:1895:GLU:OE1	2.27	0.67
1:C:75:LEU:O	1:C:1056:THR:OG1	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1772:LYS:N	1:C:1887:THR:O	2.28	0.67
1:A:743:LEU:N	1:A:746:THR:O	2.27	0.67
1:A:1779:LEU:HD13	2:B:26:ASN:CG	2.20	0.67
1:C:92:CYS:O	1:C:519:LYS:NZ	2.23	0.67
1:C:778:HIS:O	1:C:782:LYS:HG2	1.95	0.67
1:C:743:LEU:N	1:C:746:THR:O	2.27	0.67
1:A:1997:LYS:O	1:A:2000:HIS:HB3	1.95	0.67
1:C:1142:LEU:HG	1:C:1146:HIS:NE2	2.10	0.67
1:C:1574:ASP:OD2	1:C:1577:MET:N	2.22	0.67
1:C:1698:GLY:O	1:C:1746:ARG:NH2	2.27	0.67
1:A:1574:ASP:OD2	1:A:1577:MET:N	2.22	0.67
1:A:553:VAL:HB	1:A:619:PHE:HB2	1.76	0.67
1:A:936:GLN:O	1:A:940:LYS:HG2	1.95	0.67
1:C:1455:ASP:OD1	1:C:1456:THR:N	2.25	0.67
1:C:1160:ARG:O	1:C:1163:GLU:HB3	1.94	0.67
1:A:778:HIS:O	1:A:782:LYS:HG2	1.95	0.66
1:A:1698:GLY:O	1:A:1746:ARG:NH2	2.27	0.66
1:C:47:LEU:HG	1:C:1115:THR:HG23	1.76	0.66
1:C:49:GLU:O	1:C:1104:ARG:NH2	2.28	0.66
1:A:792:ILE:HA	1:A:797:ILE:HA	1.77	0.66
2:B:68:ARG:HG3	2:B:69:PRO:HD3	1.78	0.66
1:C:506:ASN:HB3	1:C:520:PRO:HD3	1.77	0.66
1:C:783:LEU:HD22	1:C:808:MET:SD	2.35	0.66
1:C:1797:ASP:O	1:C:1817:LYS:NZ	2.28	0.66
1:A:1046:ARG:O	1:A:1050:SER:N	2.27	0.66
2:B:8:VAL:HA	2:B:79:LEU:O	1.95	0.66
1:C:1062:CYS:O	1:C:1106:GLN:NE2	2.29	0.66
2:D:8:VAL:HA	2:D:79:LEU:O	1.95	0.66
1:C:1997:LYS:O	1:C:2000:HIS:HB3	1.95	0.66
1:A:47:LEU:HG	1:A:1115:THR:HG23	1.76	0.66
1:A:125:ARG:HH22	1:A:1003:ASP:HA	1.61	0.66
1:C:936:GLN:O	1:C:940:LYS:HG2	1.95	0.66
1:A:715:SER:OG	1:A:718:HIS:N	2.28	0.66
1:A:949:GLY:O	1:A:951:ARG:NH1	2.29	0.66
1:C:388:GLY:O	1:C:391:ARG:NH2	2.29	0.66
1:C:1893:HIS:NE2	1:C:1895:GLU:OE1	2.27	0.66
1:A:1004:LEU:HA	1:A:1007:LEU:HD12	1.77	0.66
1:C:456:VAL:HB	1:C:496:LEU:HB3	1.78	0.66
1:C:949:GLY:O	1:C:951:ARG:NH1	2.29	0.66
1:C:1046:ARG:O	1:C:1050:SER:N	2.27	0.66
1:A:388:GLY:O	1:A:391:ARG:NH2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:ASN:HB3	1:A:520:PRO:HD3	1.77	0.66
1:A:783:LEU:HD22	1:A:808:MET:SD	2.35	0.66
1:A:1770:VAL:O	1:A:1888:ARG:HA	1.94	0.66
1:A:1949:VAL:HA	1:A:1952:VAL:HG22	1.78	0.66
1:C:1935:GLN:OE1	1:C:1999:TYR:OH	2.13	0.66
1:A:679:ASP:H	1:A:697:MET:HE1	1.61	0.66
1:C:908:LEU:O	1:C:911:GLU:N	2.29	0.66
1:C:1139:VAL:O	1:C:1143:LEU:HG	1.96	0.66
1:A:1012:PHE:O	1:A:1015:SER:OG	2.07	0.66
1:C:544:HIS:H	1:C:777:HIS:HE1	1.44	0.66
1:C:1004:LEU:HA	1:C:1007:LEU:HD12	1.77	0.66
1:C:1456:THR:HB	1:C:1676:LYS:HG3	1.77	0.66
1:A:908:LEU:O	1:A:911:GLU:N	2.29	0.65
1:A:1139:VAL:O	1:A:1143:LEU:HG	1.96	0.65
1:A:1142:LEU:HG	1:A:1146:HIS:NE2	2.10	0.65
1:A:1456:THR:HB	1:A:1676:LYS:HG3	1.77	0.65
1:A:1772:LYS:N	1:A:1887:THR:O	2.28	0.65
1:C:715:SER:OG	1:C:718:HIS:N	2.28	0.65
1:C:768:SER:OG	1:C:770:GLU:OE1	2.14	0.65
1:C:994:ASN:HD22	1:C:994:ASN:C	2.03	0.65
1:C:1555:MET:HA	1:C:1558:LEU:HD12	1.76	0.65
1:A:768:SER:OG	1:A:770:GLU:OE1	2.14	0.65
1:C:558:LEU:HD13	1:C:707:PHE:HD1	1.62	0.65
1:A:585:ALA:HB1	1:A:600:ARG:HB3	1.78	0.65
1:C:585:ALA:HB1	1:C:600:ARG:HB3	1.78	0.65
1:C:779:VAL:HG23	1:C:780:LEU:HD23	1.77	0.65
1:C:1637:HIS:HB2	1:C:1640:LEU:HG	1.79	0.65
1:A:779:VAL:HG23	1:A:780:LEU:HD23	1.77	0.65
1:C:125:ARG:HH22	1:C:1003:ASP:HA	1.60	0.65
1:C:143:ARG:HA	1:C:146:GLN:HB2	1.79	0.65
1:C:1846:GLY:H	1:C:1883:PRO:HD2	1.62	0.65
1:A:466:ARG:HB2	1:A:614:GLU:HB3	1.78	0.65
1:A:511:LEU:HB2	1:A:530:LYS:HG2	1.79	0.65
1:A:1577:MET:SD	1:A:1888:ARG:NH2	2.65	0.65
2:D:68:ARG:HG3	2:D:69:PRO:HD3	1.78	0.65
1:A:143:ARG:HA	1:A:146:GLN:HB2	1.79	0.65
1:A:456:VAL:HB	1:A:496:LEU:HB3	1.78	0.65
1:A:1062:CYS:O	1:A:1106:GLN:NE2	2.29	0.65
1:A:2005:ARG:HD2	1:A:2009:ARG:HH22	1.62	0.65
1:C:605:PRO:HD2	1:C:617:GLU:HB2	1.79	0.65
1:C:1182:PHE:HB2	1:C:1293:ALA:HB1	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:ARG:N	1:A:335:ASP:OD1	2.29	0.65
1:A:1846:GLY:H	1:A:1883:PRO:HD2	1.62	0.65
1:C:679:ASP:H	1:C:697:MET:HE1	1.61	0.65
1:C:1780:ALA:HB3	2:D:166:LYS:HZ2	1.62	0.65
1:A:544:HIS:H	1:A:777:HIS:HE1	1.44	0.65
1:A:605:PRO:HD2	1:A:617:GLU:HB2	1.79	0.65
1:C:792:ILE:HA	1:C:797:ILE:HA	1.77	0.65
1:A:994:ASN:C	1:A:994:ASN:HD22	2.03	0.65
1:A:1797:ASP:O	1:A:1817:LYS:NZ	2.28	0.65
1:C:115:MET:SD	1:C:778:HIS:ND1	2.69	0.65
1:C:454:LEU:HD11	1:C:500:ILE:HD11	1.79	0.65
1:A:1782:ILE:HG13	1:A:1786:LEU:HD23	1.80	0.64
1:A:1935:GLN:OE1	1:A:1999:TYR:OH	2.13	0.64
1:C:224:ARG:HH22	1:C:1266:PRO:HG3	1.62	0.64
1:C:466:ARG:HB2	1:C:614:GLU:HB3	1.78	0.64
1:C:1949:VAL:HA	1:C:1952:VAL:HG22	1.78	0.64
1:A:558:LEU:HD13	1:A:707:PHE:HD1	1.62	0.64
1:A:1525:LEU:O	1:A:1528:SER:OG	2.12	0.64
1:A:1637:HIS:HB2	1:A:1640:LEU:HG	1.79	0.64
1:A:1994:PRO:HA	1:A:1997:LYS:HE3	1.79	0.64
1:C:1525:LEU:O	1:C:1528:SER:OG	2.12	0.64
1:C:2005:ARG:HD2	1:C:2009:ARG:HH22	1.62	0.64
1:C:2009:ARG:O	1:C:2013:ALA:N	2.24	0.64
1:A:808:MET:HE3	1:A:808:MET:HA	1.79	0.64
1:A:1512:SER:O	1:A:1516:THR:OG1	2.11	0.64
1:C:1420:VAL:O	1:C:1423:SER:OG	2.15	0.64
1:C:1994:PRO:HA	1:C:1997:LYS:HE3	1.79	0.64
1:A:224:ARG:HH22	1:A:1266:PRO:HG3	1.62	0.64
1:C:934:PHE:HA	1:C:937:LEU:HD12	1.79	0.64
1:C:1711:ILE:HD11	1:C:1726:VAL:HG11	1.79	0.64
1:A:115:MET:SD	1:A:778:HIS:ND1	2.69	0.64
1:C:287:ARG:N	1:C:335:ASP:OD1	2.29	0.64
1:C:1531:THR:HG22	1:C:1535:TYR:CE2	2.32	0.64
1:C:1782:ILE:HG13	1:C:1786:LEU:HD23	1.79	0.64
1:A:1092:LYS:O	1:A:1095:SER:OG	2.11	0.64
1:A:1586:ALA:O	1:A:1596:ARG:NH1	2.31	0.64
1:A:1731:GLN:HB2	1:C:1727:HIS:HB3	1.79	0.64
1:C:1440:GLN:HA	1:C:1443:LEU:HD12	1.79	0.64
1:A:1711:ILE:HD11	1:A:1726:VAL:HG11	1.79	0.64
1:C:963:ARG:NH2	1:C:966:ASP:OD1	2.31	0.64
1:C:1586:ALA:O	1:C:1596:ARG:NH1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:SER:HB2	1:A:1052:GLU:HG3	1.79	0.64
1:A:454:LEU:HD11	1:A:500:ILE:HD11	1.79	0.64
1:A:934:PHE:HA	1:A:937:LEU:HD12	1.79	0.64
1:A:1781:GLU:OE1	2:B:166:LYS:NZ	2.31	0.64
1:C:511:LEU:HB2	1:C:530:LYS:HG2	1.79	0.64
1:C:1714:LEU:HD22	1:C:1723:LEU:HB2	1.80	0.64
1:A:1182:PHE:HB2	1:A:1293:ALA:HB1	1.78	0.64
1:A:1529:LEU:HA	1:A:1532:ILE:HD12	1.79	0.64
1:A:1859:ASP:OD2	1:A:1861:ARG:NE	2.30	0.64
1:C:131:SER:HB2	1:C:1052:GLU:HG3	1.79	0.64
1:C:146:GLN:NE2	1:C:233:THR:O	2.29	0.64
2:D:119:LEU:HA	2:D:122:ASP:HB2	1.80	0.64
1:A:146:GLN:NE2	1:A:233:THR:O	2.29	0.63
1:A:590:PHE:HD2	1:A:620:LYS:HG3	1.62	0.63
1:A:721:ASP:HB3	1:A:724:LEU:HB2	1.80	0.63
1:A:1139:VAL:HG12	1:A:1143:LEU:HD11	1.80	0.63
2:D:98:VAL:HA	2:D:101:ILE:HG12	1.80	0.63
2:B:98:VAL:HA	2:B:101:ILE:HG12	1.80	0.63
1:C:591:GLY:N	1:C:597:GLU:O	2.30	0.63
1:A:408:ALA:HB1	1:A:450:ARG:HB2	1.80	0.63
1:A:1440:GLN:HA	1:A:1443:LEU:HD12	1.79	0.63
1:A:1530:LYS:HA	1:A:1533:LEU:HD12	1.81	0.63
1:C:955:PRO:HG2	1:C:958:LEU:HD13	1.80	0.63
1:C:964:PHE:CE2	1:C:968:ILE:HD11	2.33	0.63
1:A:955:PRO:HG2	1:A:958:LEU:HD13	1.80	0.63
1:C:590:PHE:HD2	1:C:620:LYS:HG3	1.62	0.63
1:C:1529:LEU:HA	1:C:1532:ILE:HD12	1.79	0.63
1:A:215:VAL:HG22	1:A:218:ARG:HH22	1.63	0.63
1:A:577:MET:HE3	1:A:579:GLY:H	1.63	0.63
1:A:964:PHE:CE2	1:A:968:ILE:HD11	2.33	0.63
1:A:1531:THR:HG22	1:A:1535:TYR:CE2	2.32	0.63
1:A:963:ARG:NH2	1:A:966:ASP:OD1	2.30	0.63
1:C:721:ASP:HB3	1:C:724:LEU:HB2	1.79	0.63
1:C:793:ILE:N	1:C:796:GLN:O	2.32	0.63
1:C:390:TYR:OH	1:C:651:GLU:OE2	2.12	0.63
1:C:783:LEU:HD21	1:C:804:ALA:HB1	1.81	0.63
2:D:4:ILE:HG21	2:D:176:ALA:HB1	1.80	0.63
1:A:793:ILE:N	1:A:796:GLN:O	2.32	0.63
1:A:1420:VAL:O	1:A:1423:SER:OG	2.16	0.63
1:A:1510:LEU:HD11	1:A:1562:LEU:HD21	1.80	0.63
1:C:1756:PHE:O	1:C:1766:GLU:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:SER:HA	1:A:208:GLU:HG3	1.81	0.63
2:B:4:ILE:HG21	2:B:176:ALA:HB1	1.80	0.63
1:C:127:TYR:HB2	1:C:1053:HIS:NE2	2.12	0.63
1:C:835:TYR:O	1:C:840:PHE:N	2.21	0.63
1:C:1859:ASP:OD2	1:C:1861:ARG:NE	2.30	0.63
2:D:1:MET:SD	2:D:2:GLN:N	2.72	0.63
1:A:1756:PHE:O	1:A:1766:GLU:N	2.32	0.62
1:C:541:TYR:HB3	1:C:773:VAL:HG21	1.80	0.62
1:C:1755:GLY:O	1:C:1820:ILE:HA	1.99	0.62
1:C:1803:LYS:HE2	2:D:28:PHE:CG	2.34	0.62
1:A:1724:ALA:HB2	1:C:1734:PHE:HD1	1.63	0.62
1:A:1790:TYR:O	1:A:1794:PHE:HB2	1.99	0.62
2:B:1:MET:SD	2:B:2:GLN:N	2.72	0.62
2:D:8:VAL:HG22	2:D:79:LEU:HB2	1.80	0.62
1:A:490:ARG:HH22	1:A:492:VAL:HG22	1.64	0.62
1:A:783:LEU:HD21	1:A:804:ALA:HB1	1.81	0.62
1:A:1002:SER:HA	1:A:1005:LEU:HD12	1.81	0.62
1:C:1510:LEU:HD11	1:C:1562:LEU:HD21	1.80	0.62
1:C:1530:LYS:HA	1:C:1533:LEU:HD12	1.81	0.62
1:A:1753:ARG:NE	1:A:1823:THR:OG1	2.32	0.62
1:A:1755:GLY:O	1:A:1820:ILE:HA	1.99	0.62
1:C:268:LEU:HA	1:C:496:LEU:HA	1.81	0.62
1:C:577:MET:HE3	1:C:579:GLY:H	1.63	0.62
1:C:588:VAL:HG23	1:C:621:LEU:HD22	1.82	0.62
1:A:1392:VAL:O	1:A:1395:THR:OG1	2.14	0.62
1:C:1012:PHE:O	1:C:1015:SER:OG	2.07	0.62
1:C:1428:GLN:HB2	1:C:1433:LEU:HD21	1.82	0.62
1:A:140:ASP:OD1	1:A:141:THR:N	2.33	0.62
1:A:466:ARG:NH1	1:A:605:PRO:O	2.32	0.62
1:A:1850:PHE:O	1:A:1875:LEU:HA	2.00	0.62
1:C:205:SER:HA	1:C:208:GLU:HG3	1.81	0.62
1:A:541:TYR:HB3	1:A:773:VAL:HG21	1.80	0.62
2:B:68:ARG:NH2	2:B:72:TYR:OH	2.33	0.62
1:C:490:ARG:HH22	1:C:492:VAL:HG22	1.64	0.62
1:C:1912:LYS:HE3	1:C:1933:VAL:HG23	1.81	0.62
2:D:68:ARG:NH2	2:D:72:TYR:OH	2.33	0.62
1:A:835:TYR:O	1:A:840:PHE:N	2.21	0.62
1:C:742:ARG:HA	1:C:747:VAL:HA	1.82	0.62
1:C:808:MET:HA	1:C:808:MET:HE3	1.79	0.62
1:A:280:ILE:HG22	1:A:297:TYR:HA	1.81	0.62
1:C:215:VAL:HG22	1:C:218:ARG:HH22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:ARG:HH12	1:A:1390:LEU:HB3	1.64	0.62
1:A:444:CYS:SG	1:A:445:SER:N	2.73	0.62
1:C:408:ALA:HB1	1:C:450:ARG:HB2	1.80	0.62
1:C:466:ARG:NH1	1:C:605:PRO:O	2.32	0.62
1:C:1790:TYR:O	1:C:1794:PHE:HB2	1.99	0.62
2:D:91:GLU:HA	2:D:94:LYS:HE2	1.82	0.62
1:A:1565:THR:O	1:A:1568:MET:HB3	2.00	0.61
1:A:1714:LEU:HD22	1:A:1723:LEU:HB2	1.80	0.61
1:A:1721:LYS:HA	1:C:1738:MET:HE3	1.81	0.61
1:A:1912:LYS:HE3	1:A:1933:VAL:HG23	1.81	0.61
2:B:119:LEU:HA	2:B:122:ASP:HB2	1.80	0.61
1:A:268:LEU:HA	1:A:496:LEU:HA	1.81	0.61
1:C:577:MET:HE1	1:C:584:GLN:HB2	1.83	0.61
1:C:1139:VAL:HG12	1:C:1143:LEU:HD11	1.81	0.61
1:C:1850:PHE:O	1:C:1875:LEU:HA	1.99	0.61
1:A:485:LEU:HD12	1:A:488:ARG:HD3	1.82	0.61
1:C:227:ARG:HH12	1:C:1390:LEU:HB3	1.64	0.61
1:C:485:LEU:HD12	1:C:488:ARG:HD3	1.82	0.61
2:B:8:VAL:HG22	2:B:79:LEU:HB2	1.80	0.61
1:C:140:ASP:OD1	1:C:141:THR:N	2.33	0.61
1:C:1565:THR:O	1:C:1568:MET:HB3	2.00	0.61
1:A:742:ARG:HA	1:A:747:VAL:HA	1.82	0.61
2:B:94:LYS:HZ2	2:B:145:LEU:HD22	1.65	0.61
1:C:229:PRO:O	1:C:1262:LYS:NZ	2.32	0.61
1:A:1962:LYS:HA	1:A:1965:ARG:HE	1.65	0.61
1:C:1855:PRO:HG3	2:D:33:VAL:HA	1.82	0.61
2:D:94:LYS:HZ2	2:D:145:LEU:HD22	1.65	0.61
1:A:387:LEU:O	1:A:391:ARG:NH1	2.34	0.61
1:A:1650:ILE:HD13	1:A:1705:GLU:HB2	1.82	0.61
1:C:1512:SER:O	1:C:1516:THR:OG1	2.11	0.61
2:D:65:ASP:OD1	2:D:68:ARG:NH1	2.34	0.61
1:A:577:MET:HE1	1:A:584:GLN:HB2	1.83	0.61
1:C:1002:SER:HA	1:C:1005:LEU:HD12	1.81	0.61
1:A:588:VAL:HG23	1:A:621:LEU:HD22	1.82	0.60
1:C:1962:LYS:HA	1:C:1965:ARG:HE	1.65	0.60
1:A:908:LEU:HG	1:A:912:LEU:HG	1.83	0.60
1:A:1428:GLN:HB2	1:A:1433:LEU:HD21	1.82	0.60
1:C:1857:THR:OG1	1:C:1859:ASP:OD1	2.19	0.60
2:B:90:PHE:O	2:B:94:LYS:NZ	2.33	0.60
1:C:444:CYS:SG	1:C:445:SER:N	2.73	0.60
1:C:1161:VAL:HA	1:C:1164:LEU:HD13	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1410:GLU:HG2	1:C:1411:SER:N	2.15	0.60
1:A:229:PRO:O	1:A:1262:LYS:NZ	2.32	0.60
1:C:1839:THR:OG1	1:C:1842:ASP:N	2.28	0.60
1:A:770:GLU:HA	1:A:773:VAL:HG12	1.84	0.60
1:C:280:ILE:HG22	1:C:297:TYR:HA	1.81	0.60
1:A:743:LEU:HD22	1:A:748:LEU:HD21	1.83	0.60
1:A:1039:THR:O	1:A:1042:MET:N	2.35	0.60
1:A:1596:ARG:O	1:A:1600:LEU:HG	2.02	0.60
1:A:1797:ASP:OD1	1:A:1817:LYS:NZ	2.29	0.60
2:B:65:ASP:OD1	2:B:68:ARG:NH1	2.34	0.60
2:B:91:GLU:HA	2:B:94:LYS:HE2	1.82	0.60
1:C:743:LEU:HD22	1:C:748:LEU:HD21	1.84	0.60
1:A:575:GLN:HE21	1:A:585:ALA:HA	1.67	0.60
1:A:1758:GLY:N	1:A:1765:ASP:OD1	2.28	0.60
1:C:1135:ALA:O	1:C:1139:VAL:HG23	2.02	0.60
1:C:1522:GLU:H	1:C:1522:GLU:CD	2.09	0.60
1:A:1161:VAL:HA	1:A:1164:LEU:HD13	1.82	0.60
1:C:908:LEU:HG	1:C:912:LEU:HG	1.84	0.60
1:C:1650:ILE:HD13	1:C:1705:GLU:HB2	1.82	0.60
1:C:312:HIS:NE2	1:C:385:THR:O	2.35	0.60
1:C:387:LEU:O	1:C:391:ARG:NH1	2.34	0.60
1:C:669:THR:HA	1:C:711:LEU:O	2.02	0.60
1:C:1596:ARG:O	1:C:1600:LEU:HG	2.01	0.60
1:C:1758:GLY:N	1:C:1765:ASP:OD1	2.28	0.60
1:A:230:ALA:O	1:A:233:THR:OG1	2.20	0.60
1:A:912:LEU:HD12	1:A:938:MET:HB3	1.83	0.60
1:A:1522:GLU:H	1:A:1522:GLU:CD	2.09	0.60
1:A:1580:ASP:HB3	1:A:1584:ARG:HH22	1.66	0.60
1:A:1597:LEU:HA	1:A:1600:LEU:HD12	1.84	0.60
1:A:1622:HIS:ND1	1:A:1657:GLU:OE1	2.35	0.60
1:A:1826:GLU:O	1:A:1851:LEU:N	2.26	0.60
1:C:230:ALA:O	1:C:233:THR:OG1	2.20	0.60
1:A:1410:GLU:HG2	1:A:1411:SER:N	2.15	0.59
1:C:394:PHE:CE2	1:C:492:VAL:HG11	2.37	0.59
1:C:1039:THR:O	1:C:1042:MET:N	2.35	0.59
1:C:1580:ASP:HB3	1:C:1584:ARG:HH22	1.66	0.59
1:A:1135:ALA:O	1:A:1139:VAL:HG23	2.02	0.59
1:C:1778:LYS:HG2	2:D:26:ASN:ND2	2.18	0.59
1:A:394:PHE:CE2	1:A:492:VAL:HG11	2.37	0.59
1:C:314:THR:OG1	1:C:596:SER:OG	2.15	0.59
1:C:912:LEU:HD12	1:C:938:MET:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1404:MET:O	1:C:1409:ARG:NH2	2.35	0.59
1:C:1753:ARG:NE	1:C:1823:THR:OG1	2.32	0.59
1:C:1791:THR:O	1:C:1795:GLY:N	2.27	0.59
1:A:312:HIS:NE2	1:A:385:THR:O	2.35	0.59
1:A:1740:GLN:HG2	1:A:1746:ARG:HH11	1.67	0.59
1:A:1853:CYS:HB3	1:A:1871:LYS:HD3	1.84	0.59
2:B:5:LYS:HG3	2:B:56:PHE:HE2	1.67	0.59
1:C:513:PRO:HD3	1:C:531:GLU:HB3	1.85	0.59
1:C:1092:LYS:O	1:C:1095:SER:OG	2.11	0.59
1:C:1740:GLN:HG2	1:C:1746:ARG:HH11	1.67	0.59
1:C:924:ARG:O	1:C:928:LEU:HG	2.02	0.59
1:C:1272:TRP:O	1:C:1276:LEU:HG	2.03	0.59
1:C:1597:LEU:HA	1:C:1600:LEU:HD12	1.84	0.59
2:D:5:LYS:HG3	2:D:56:PHE:HE2	1.67	0.59
1:C:454:LEU:HD12	1:C:498:ILE:HD11	1.84	0.59
1:C:1622:HIS:ND1	1:C:1657:GLU:OE1	2.35	0.59
1:C:1737:ILE:O	1:C:1740:GLN:NE2	2.34	0.59
1:A:108:GLN:HG3	1:A:732:HIS:NE2	2.18	0.59
1:A:1404:MET:O	1:A:1409:ARG:NH2	2.35	0.59
1:C:333:SER:OG	1:C:335:ASP:OD2	2.20	0.59
1:C:656:PHE:O	1:C:677:SER:N	2.35	0.59
1:C:1486:TYR:CE2	1:C:1535:TYR:HB3	2.38	0.59
2:D:157:CYS:HB3	2:D:168:VAL:HG21	1.85	0.59
1:A:333:SER:OG	1:A:335:ASP:OD2	2.20	0.59
1:A:513:PRO:HD3	1:A:531:GLU:HB3	1.85	0.59
1:A:560:PHE:HB2	1:A:570:LEU:HD11	1.85	0.59
1:A:1778:LYS:NZ	2:B:44:VAL:HG12	2.17	0.59
1:C:108:GLN:HG3	1:C:732:HIS:NE2	2.18	0.59
1:C:1392:VAL:O	1:C:1395:THR:OG1	2.14	0.59
1:A:475:PHE:CE1	1:A:489:LEU:HD11	2.38	0.59
1:A:910:GLU:OE1	1:A:910:GLU:N	2.29	0.59
1:A:1700:TYR:O	1:A:1703:VAL:HG12	2.03	0.59
1:A:1791:THR:O	1:A:1795:GLY:N	2.27	0.59
2:B:112:LEU:HD12	2:B:146:ALA:HB2	1.85	0.59
2:B:157:CYS:HB3	2:B:168:VAL:HG21	1.85	0.59
1:C:264:LYS:HB2	1:C:499:ASP:HB2	1.85	0.59
1:C:511:LEU:O	1:C:531:GLU:N	2.27	0.59
1:C:1700:TYR:O	1:C:1703:VAL:HG12	2.03	0.59
1:C:1853:CYS:HB3	1:C:1871:LYS:HD3	1.84	0.59
1:A:656:PHE:O	1:A:677:SER:N	2.35	0.59
1:A:741:PHE:O	1:A:748:LEU:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:924:ARG:O	1:A:928:LEU:HG	2.02	0.59
1:A:1272:TRP:O	1:A:1276:LEU:HG	2.03	0.59
1:A:1737:ILE:O	1:A:1740:GLN:NE2	2.34	0.59
1:C:575:GLN:HE21	1:C:585:ALA:HA	1.67	0.59
1:C:741:PHE:O	1:C:748:LEU:N	2.33	0.59
1:C:770:GLU:HA	1:C:773:VAL:HG12	1.84	0.59
1:A:1486:TYR:CE2	1:A:1535:TYR:HB3	2.38	0.58
1:A:1998:GLU:O	1:A:2002:GLU:N	2.28	0.58
1:C:1523:GLU:CD	1:C:1523:GLU:H	2.10	0.58
2:D:65:ASP:HA	2:D:68:ARG:HH11	1.68	0.58
1:A:669:THR:HA	1:A:711:LEU:O	2.02	0.58
1:A:1151:ARG:NH2	1:A:1152:TYR:OH	2.36	0.58
1:A:1954:LEU:HB3	1:A:2017:LEU:HD22	1.85	0.58
1:C:551:LEU:HD12	1:C:712:THR:O	2.04	0.58
1:A:127:TYR:HB2	1:A:1053:HIS:NE2	2.12	0.58
1:C:231:LEU:HD22	1:C:232:LEU:HG	1.85	0.58
1:C:544:HIS:ND1	1:C:716:SER:HA	2.18	0.58
1:A:490:ARG:HH12	1:A:492:VAL:HG22	1.69	0.58
1:A:591:GLY:N	1:A:597:GLU:O	2.31	0.58
1:A:551:LEU:HD12	1:A:712:THR:O	2.04	0.58
1:A:1523:GLU:H	1:A:1523:GLU:CD	2.10	0.58
1:A:1839:THR:OG1	1:A:1842:ASP:N	2.28	0.58
1:C:475:PHE:CE1	1:C:489:LEU:HD11	2.38	0.58
1:A:405:VAL:HG13	1:A:449:PHE:HB3	1.85	0.58
1:A:454:LEU:HD12	1:A:498:ILE:HD11	1.84	0.58
1:A:552:TYR:HA	1:A:619:PHE:O	2.04	0.58
1:A:1855:PRO:HD3	2:B:33:VAL:HG22	1.85	0.58
1:C:1151:ARG:NH2	1:C:1152:TYR:OH	2.36	0.58
1:C:1499:PHE:HE1	1:C:1503:LYS:HE3	1.68	0.58
1:A:231:LEU:HD22	1:A:232:LEU:HG	1.85	0.58
1:A:544:HIS:ND1	1:A:716:SER:HA	2.18	0.58
1:A:573:ARG:HD3	1:A:601:GLU:HB2	1.85	0.58
1:A:1398:ILE:HD12	1:A:1401:GLN:HB2	1.86	0.58
1:A:1399:ILE:O	1:A:1403:VAL:HG23	2.03	0.58
2:B:65:ASP:HA	2:B:68:ARG:HH11	1.68	0.58
1:C:405:VAL:HG13	1:C:449:PHE:HB3	1.85	0.58
1:C:560:PHE:HB2	1:C:570:LEU:HD11	1.85	0.58
1:C:1132:HIS:O	1:C:1136:ILE:HG12	2.04	0.58
1:C:1399:ILE:O	1:C:1403:VAL:HG23	2.03	0.58
1:C:1615:GLU:CD	1:C:1615:GLU:H	2.11	0.58
2:D:112:LEU:HD12	2:D:146:ALA:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1437:LEU:HB3	1:A:1441:ARG:HH12	1.69	0.58
1:A:1615:GLU:CD	1:A:1615:GLU:H	2.11	0.58
2:B:101:ILE:HG13	2:B:102:THR:N	2.19	0.58
1:C:1437:LEU:HB3	1:C:1441:ARG:HH12	1.69	0.58
1:C:1526:ARG:O	1:C:1530:LYS:HG2	2.04	0.58
1:A:1168:LEU:HA	1:A:1171:ILE:HD12	1.85	0.58
1:A:1503:LYS:HD2	1:A:1554:LEU:HB2	1.85	0.58
1:A:1531:THR:HG22	1:A:1535:TYR:HE2	1.68	0.58
1:A:1983:ASP:OD1	1:A:1986:ARG:NH1	2.36	0.58
1:C:1531:THR:HG22	1:C:1535:TYR:HE2	1.67	0.58
1:A:1132:HIS:O	1:A:1136:ILE:HG12	2.04	0.58
1:A:1526:ARG:HA	1:A:1529:LEU:HD12	1.86	0.58
1:A:1565:THR:O	1:A:1569:LYS:HG3	2.04	0.58
1:C:143:ARG:HH12	1:C:147:LYS:HB3	1.69	0.58
1:C:1265:GLU:HG2	1:C:1268:LEU:H	1.69	0.58
2:D:90:PHE:O	2:D:94:LYS:NZ	2.33	0.58
1:A:581:ASP:OD1	1:A:581:ASP:N	2.37	0.57
1:A:1433:LEU:O	1:A:1437:LEU:HG	2.04	0.57
1:C:131:SER:HB3	1:C:134:TYR:HB2	1.86	0.57
1:C:573:ARG:HD3	1:C:601:GLU:HB2	1.85	0.57
1:C:1398:ILE:HD12	1:C:1401:GLN:HB2	1.86	0.57
1:C:1433:LEU:O	1:C:1437:LEU:HG	2.04	0.57
1:C:1647:PHE:O	1:C:1650:ILE:HG22	2.04	0.57
1:C:1756:PHE:HB3	1:C:1761:PHE:CD2	2.39	0.57
1:C:1954:LEU:HB3	1:C:2017:LEU:HD22	1.85	0.57
1:A:264:LYS:HB2	1:A:499:ASP:HB2	1.85	0.57
1:A:1482:SER:HA	1:A:1485:LEU:HD12	1.86	0.57
1:A:1526:ARG:O	1:A:1530:LYS:HG2	2.04	0.57
1:C:1503:LYS:HD2	1:C:1554:LEU:HB2	1.85	0.57
1:A:1039:THR:O	1:A:1042:MET:HG3	2.04	0.57
1:A:1514:VAL:HG11	1:A:1565:THR:HG21	1.86	0.57
1:A:1791:THR:HG23	1:A:1796:ASP:HA	1.84	0.57
2:B:118:ASP:OD1	2:B:119:LEU:N	2.38	0.57
1:C:552:TYR:HA	1:C:619:PHE:O	2.04	0.57
1:C:911:GLU:HA	1:C:914:LEU:HD12	1.86	0.57
1:C:1058:ASN:HB3	1:C:1107:HIS:HA	1.85	0.57
1:C:1482:SER:HA	1:C:1485:LEU:HD12	1.86	0.57
1:C:1514:VAL:HG11	1:C:1565:THR:HG21	1.86	0.57
1:C:1526:ARG:HA	1:C:1529:LEU:HD12	1.86	0.57
1:C:1791:THR:HG23	1:C:1796:ASP:HA	1.85	0.57
1:A:638:TYR:HA	1:A:652:THR:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1265:GLU:HG2	1:A:1268:LEU:H	1.69	0.57
2:B:12:GLY:N	2:B:60:GLY:HA3	2.19	0.57
1:C:405:VAL:HG21	1:C:446:PHE:HA	1.86	0.57
1:C:460:PHE:HB3	1:C:489:LEU:HB3	1.87	0.57
1:C:490:ARG:HH12	1:C:492:VAL:HG22	1.68	0.57
1:C:791:PRO:HB2	1:C:793:ILE:HG13	1.87	0.57
1:A:911:GLU:HA	1:A:914:LEU:HD12	1.86	0.57
1:A:935:PHE:HA	1:A:938:MET:SD	2.44	0.57
1:A:1841:PHE:HA	1:A:1844:ASN:HB2	1.87	0.57
1:C:1039:THR:O	1:C:1042:MET:HG3	2.04	0.57
1:C:1181:ASP:OD1	1:C:1182:PHE:N	2.38	0.57
1:C:1841:PHE:HA	1:C:1844:ASN:HB2	1.87	0.57
1:C:1998:GLU:HA	1:C:2001:ARG:HB2	1.86	0.57
1:A:1012:PHE:CZ	1:A:1016:LEU:HD11	2.40	0.57
1:A:1926:ASP:HB3	1:A:1929:MET:HG2	1.87	0.57
1:A:1989:LYS:HB2	1:A:2000:HIS:CE1	2.39	0.57
1:C:1012:PHE:CZ	1:C:1016:LEU:HD11	2.40	0.57
1:C:1714:LEU:HD22	1:C:1723:LEU:HD12	1.87	0.57
2:D:118:ASP:OD1	2:D:119:LEU:N	2.38	0.57
1:A:92:CYS:O	1:A:519:LYS:NZ	2.23	0.57
1:C:935:PHE:HA	1:C:938:MET:SD	2.44	0.57
1:C:1903:GLU:HA	1:C:1906:ILE:HD12	1.85	0.57
2:D:101:ILE:HG13	2:D:102:THR:N	2.19	0.57
1:A:458:ASN:HB3	1:A:460:PHE:CE1	2.40	0.57
1:A:791:PRO:HB2	1:A:793:ILE:HG13	1.87	0.57
1:A:1499:PHE:HE1	1:A:1503:LYS:HE3	1.68	0.57
1:A:1756:PHE:HB3	1:A:1761:PHE:CD2	2.39	0.57
1:A:1948:GLU:O	1:A:1952:VAL:HG13	2.05	0.57
1:C:235:TYR:OH	1:C:1248:GLU:OE2	2.23	0.57
1:C:1453:GLU:N	1:C:1453:GLU:OE2	2.38	0.57
1:C:1941:THR:HG23	1:C:1942:VAL:HG23	1.87	0.57
1:A:131:SER:HB3	1:A:134:TYR:HB2	1.86	0.57
1:A:776:SER:O	1:A:780:LEU:HG	2.05	0.57
1:A:1714:LEU:HD22	1:A:1723:LEU:HD12	1.87	0.57
1:A:1857:THR:OG1	1:A:1859:ASP:OD1	2.19	0.57
1:A:1998:GLU:HA	1:A:2001:ARG:HB2	1.86	0.57
1:C:1761:PHE:CZ	1:C:1818:ALA:HB1	2.40	0.57
1:C:1989:LYS:HB2	1:C:2000:HIS:CE1	2.39	0.57
1:A:1058:ASN:HB3	1:A:1107:HIS:HA	1.85	0.56
1:A:1391:VAL:O	1:A:1395:THR:HG23	2.05	0.56
1:A:1453:GLU:N	1:A:1453:GLU:OE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1647:PHE:O	1:A:1650:ILE:HG22	2.04	0.56
1:C:241:ASP:OD1	1:C:242:GLU:N	2.38	0.56
1:C:478:ASP:OD1	1:C:483:SER:OG	2.22	0.56
1:C:806:GLU:O	1:C:810:HIS:ND1	2.38	0.56
1:C:1168:LEU:HA	1:C:1171:ILE:HD12	1.85	0.56
1:C:1565:THR:O	1:C:1569:LYS:HG3	2.04	0.56
1:C:1926:ASP:HB3	1:C:1929:MET:HG2	1.87	0.56
1:A:405:VAL:HG21	1:A:446:PHE:HA	1.86	0.56
1:A:806:GLU:O	1:A:810:HIS:ND1	2.38	0.56
1:C:638:TYR:HA	1:C:652:THR:O	2.04	0.56
1:C:1752:PHE:CD1	1:C:1824:TYR:HA	2.40	0.56
2:D:12:GLY:N	2:D:60:GLY:HA3	2.19	0.56
2:D:25:THR:HG22	2:D:27:LYS:HE2	1.87	0.56
1:A:241:ASP:OD1	1:A:242:GLU:N	2.38	0.56
1:A:300:LEU:HG	1:A:323:ARG:HD3	1.87	0.56
1:A:330:THR:N	1:A:534:GLU:OE2	2.36	0.56
1:A:623:LEU:HD11	1:A:627:VAL:HG22	1.86	0.56
1:A:1181:ASP:OD1	1:A:1182:PHE:N	2.37	0.56
1:A:1481:ALA:O	1:A:1484:SER:OG	2.23	0.56
1:A:1735:THR:O	1:A:1738:MET:HB2	2.06	0.56
1:A:1761:PHE:CZ	1:A:1818:ALA:HB1	2.40	0.56
1:C:1989:LYS:HB2	1:C:2000:HIS:NE2	2.20	0.56
1:C:2001:ARG:O	1:C:2004:GLU:HB2	2.04	0.56
1:A:269:LYS:N	1:A:495:GLN:O	2.39	0.56
1:A:1102:PRO:HA	1:A:1105:GLN:HE21	1.71	0.56
1:A:1903:GLU:HA	1:A:1906:ILE:HD12	1.85	0.56
2:B:5:LYS:NZ	2:B:73:PRO:O	2.31	0.56
1:C:276:PRO:HA	1:C:305:MET:HE2	1.88	0.56
1:C:907:LEU:HB2	1:C:910:GLU:OE2	2.05	0.56
1:C:1570:GLU:HG3	1:C:1571:HIS:ND1	2.20	0.56
1:A:330:THR:HG21	1:A:536:PRO:HB3	1.87	0.56
1:A:1891:VAL:HG12	1:A:1893:HIS:H	1.71	0.56
1:A:1985:LEU:O	1:A:2000:HIS:HE1	1.88	0.56
1:C:300:LEU:HG	1:C:323:ARG:HD3	1.87	0.56
1:C:1567:LYS:O	1:C:1570:GLU:HG2	2.06	0.56
1:A:143:ARG:HH12	1:A:147:LYS:HB3	1.69	0.56
1:A:276:PRO:HA	1:A:305:MET:HE2	1.88	0.56
1:A:460:PHE:HB3	1:A:489:LEU:HB3	1.87	0.56
1:A:997:LEU:O	1:A:1001:LEU:HG	2.06	0.56
1:A:1567:LYS:O	1:A:1570:GLU:HG2	2.06	0.56
1:C:46:PRO:HD2	1:C:49:GLU:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:208:GLU:O	1:C:209:ARG:NH1	2.39	0.56
1:C:985:LYS:H	1:C:985:LYS:HD2	1.70	0.56
1:C:1948:GLU:O	1:C:1952:VAL:HG13	2.05	0.56
1:A:208:GLU:O	1:A:209:ARG:NH1	2.39	0.56
1:A:1430:ALA:HA	1:A:1433:LEU:HB2	1.88	0.56
1:A:1989:LYS:HB2	1:A:2000:HIS:NE2	2.20	0.56
1:A:213:GLU:CD	1:A:213:GLU:H	2.12	0.56
1:A:511:LEU:O	1:A:531:GLU:N	2.27	0.56
1:A:907:LEU:HB2	1:A:910:GLU:OE2	2.05	0.56
1:A:1570:GLU:HG3	1:A:1571:HIS:ND1	2.20	0.56
1:A:1778:LYS:HZ3	2:B:44:VAL:HG12	1.70	0.56
1:A:1911:LYS:O	1:A:1915:GLU:HG2	2.06	0.56
1:C:997:LEU:O	1:C:1001:LEU:HG	2.05	0.56
1:C:1102:PRO:HA	1:C:1105:GLN:HE21	1.71	0.56
1:A:277:ILE:HG13	1:A:343:GLU:O	2.05	0.56
1:A:1700:TYR:O	1:A:1703:VAL:N	2.38	0.56
1:A:1752:PHE:CD1	1:A:1824:TYR:HA	2.40	0.56
1:C:458:ASN:HB3	1:C:460:PHE:CE1	2.40	0.56
1:C:776:SER:O	1:C:780:LEU:HG	2.05	0.56
1:C:1546:THR:OG1	1:C:1550:GLN:NE2	2.39	0.56
1:C:1911:LYS:O	1:C:1915:GLU:HG2	2.06	0.56
1:C:688:LEU:HD21	1:C:694:LEU:HD11	1.88	0.56
1:C:1430:ALA:HA	1:C:1433:LEU:HB2	1.88	0.56
1:C:1735:THR:O	1:C:1738:MET:HB2	2.06	0.56
1:C:2015:GLN:HA	1:C:2018:LEU:HB2	1.88	0.56
1:A:1546:THR:OG1	1:A:1550:GLN:NE2	2.39	0.55
1:A:2001:ARG:O	1:A:2004:GLU:HB2	2.05	0.55
1:C:118:GLU:OE2	1:C:119:ASP:N	2.38	0.55
1:C:330:THR:HG21	1:C:536:PRO:HB3	1.87	0.55
1:C:1700:TYR:O	1:C:1703:VAL:N	2.38	0.55
1:A:323:ARG:HB2	1:A:527:ARG:HD3	1.88	0.55
1:C:213:GLU:H	1:C:213:GLU:CD	2.12	0.55
1:C:269:LYS:N	1:C:495:GLN:O	2.38	0.55
1:C:1391:VAL:O	1:C:1395:THR:HG23	2.05	0.55
1:A:46:PRO:HD2	1:A:49:GLU:HB3	1.88	0.55
1:A:282:ALA:HB2	1:A:295:ASN:HA	1.89	0.55
1:A:1116:GLU:HA	1:A:1119:LEU:HG	1.88	0.55
1:A:1525:LEU:O	1:A:1529:LEU:HG	2.07	0.55
1:A:1711:ILE:O	1:A:1714:LEU:N	2.39	0.55
1:A:1941:THR:HG23	1:A:1942:VAL:HG23	1.86	0.55
2:B:25:THR:HG22	2:B:27:LYS:HE2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:277:ILE:HG13	1:C:343:GLU:O	2.05	0.55
1:C:1891:VAL:HG12	1:C:1893:HIS:H	1.71	0.55
1:A:118:GLU:OE2	1:A:119:ASP:N	2.38	0.55
1:A:956:ARG:HA	1:A:959:ARG:HG2	1.87	0.55
1:A:2015:GLN:HA	1:A:2018:LEU:HB2	1.88	0.55
1:C:623:LEU:HD11	1:C:627:VAL:HG22	1.86	0.55
1:C:956:ARG:HA	1:C:959:ARG:HG2	1.87	0.55
1:C:1481:ALA:O	1:C:1484:SER:OG	2.23	0.55
1:C:2008:CYS:HA	1:C:2011:ARG:CZ	2.36	0.55
2:D:78:PHE:O	2:D:110:PHE:HA	2.07	0.55
1:A:466:ARG:CZ	1:A:615:PHE:HA	2.37	0.55
1:A:1157:VAL:O	1:A:1161:VAL:HG23	2.07	0.55
1:A:2008:CYS:HA	1:A:2011:ARG:CZ	2.36	0.55
1:C:581:ASP:OD1	1:C:581:ASP:N	2.37	0.55
1:C:1248:GLU:OE2	1:C:1252:THR:OG1	2.25	0.55
1:A:538:ARG:HG2	1:A:539:GLU:H	1.72	0.55
1:A:688:LEU:HD21	1:A:694:LEU:HD11	1.88	0.55
1:A:1830:ASP:O	1:A:1834:LEU:N	2.35	0.55
1:C:1525:LEU:O	1:C:1529:LEU:HG	2.06	0.55
1:C:1985:LEU:O	1:C:2000:HIS:HE1	1.88	0.55
1:A:314:THR:OG1	1:A:596:SER:OG	2.15	0.55
2:B:91:GLU:O	2:B:95:GLU:HG3	2.07	0.55
1:C:330:THR:N	1:C:534:GLU:OE2	2.36	0.55
1:C:394:PHE:C	1:C:462:GLN:HB2	2.32	0.55
1:C:544:HIS:NE2	1:C:774:ALA:HB1	2.22	0.55
1:A:227:ARG:NH2	1:A:1387:GLU:OE1	2.40	0.55
1:A:1182:PHE:CD1	1:A:1294:ALA:HA	2.42	0.55
1:C:408:ALA:HB1	1:C:450:ARG:H	1.72	0.55
1:C:743:LEU:HB3	1:C:746:THR:H	1.72	0.55
1:C:996:SER:HA	1:C:999:PHE:HD2	1.72	0.55
1:C:1613:HIS:CD2	1:C:1696:MET:HG2	2.42	0.55
1:A:92:CYS:HG	1:A:94:THR:HG1	1.53	0.55
1:A:112:ALA:HA	1:A:115:MET:HG2	1.89	0.55
1:A:224:ARG:NH2	1:A:1266:PRO:HG3	2.22	0.55
1:A:1909:MET:HE1	1:A:1973:CYS:C	2.32	0.55
1:A:1930:LEU:HD11	1:A:1984:ALA:HB1	1.88	0.55
1:C:1909:MET:HE1	1:C:1973:CYS:C	2.32	0.55
1:C:1938:VAL:C	1:C:1940:PRO:HD3	2.31	0.55
1:A:655:GLY:HA2	1:A:678:VAL:HA	1.89	0.55
1:A:739:PHE:CE2	1:A:750:GLU:HB3	2.41	0.55
1:A:985:LYS:H	1:A:985:LYS:HD2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1406:SER:OG	1:A:1409:ARG:HG2	2.07	0.55
1:A:1723:LEU:HB3	1:C:1734:PHE:CE1	2.42	0.55
2:B:78:PHE:O	2:B:110:PHE:HA	2.07	0.55
1:C:739:PHE:CE2	1:C:750:GLU:HB3	2.41	0.55
1:A:1248:GLU:OE2	1:A:1252:THR:OG1	2.25	0.54
1:A:1613:HIS:CD2	1:A:1696:MET:HG2	2.42	0.54
2:B:39:ASN:OD1	2:B:57:ASP:N	2.41	0.54
1:C:459:PHE:O	1:C:492:VAL:N	2.36	0.54
1:C:466:ARG:CZ	1:C:615:PHE:HA	2.37	0.54
1:C:1641:PRO:HD3	1:C:1713:ILE:HD11	1.89	0.54
1:A:813:SER:O	1:A:817:ARG:HG3	2.07	0.54
1:C:227:ARG:NH2	1:C:1387:GLU:OE1	2.40	0.54
1:C:568:ARG:HG2	1:C:609:HIS:HA	1.90	0.54
1:C:1711:ILE:O	1:C:1714:LEU:N	2.39	0.54
1:A:568:ARG:HG2	1:A:609:HIS:HA	1.90	0.54
2:B:15:ALA:HB1	2:B:18:CYS:HB3	1.89	0.54
1:C:323:ARG:HB2	1:C:527:ARG:HD3	1.88	0.54
1:C:1917:ALA:HB2	1:C:1980:LYS:HE3	1.89	0.54
1:C:1826:GLU:O	1:C:1851:LEU:N	2.26	0.54
1:A:829:CYS:HB3	1:A:832:LEU:HD13	1.90	0.54
1:A:1002:SER:O	1:A:1005:LEU:HB2	2.08	0.54
1:A:1938:VAL:C	1:A:1940:PRO:HD3	2.31	0.54
1:C:282:ALA:HB2	1:C:295:ASN:HA	1.89	0.54
1:C:829:CYS:HB3	1:C:832:LEU:HD13	1.90	0.54
1:C:1116:GLU:HA	1:C:1119:LEU:HG	1.88	0.54
1:A:1154:GLU:HB3	1:A:1157:VAL:HG22	1.90	0.54
1:A:408:ALA:HB1	1:A:450:ARG:H	1.72	0.54
1:A:1161:VAL:HG12	1:A:1165:TYR:HE1	1.73	0.54
1:A:1573:GLU:H	1:A:1578:LEU:HD11	1.73	0.54
1:C:81:ASP:O	1:C:126:ARG:NE	2.32	0.54
1:C:112:ALA:HA	1:C:115:MET:HG2	1.89	0.54
1:C:224:ARG:NH2	1:C:1266:PRO:HG3	2.22	0.54
1:C:1002:SER:O	1:C:1005:LEU:HB2	2.08	0.54
1:C:1157:VAL:O	1:C:1161:VAL:HG23	2.07	0.54
1:C:1983:ASP:OD1	1:C:1986:ARG:NH1	2.36	0.54
1:A:996:SER:HA	1:A:999:PHE:HD2	1.72	0.54
1:A:1505:GLN:HG3	1:A:1676:LYS:HZ3	1.73	0.54
1:A:1641:PRO:HD3	1:A:1713:ILE:HD11	1.89	0.54
1:C:49:GLU:OE2	1:C:50:VAL:N	2.41	0.54
1:C:1930:LEU:HD11	1:C:1984:ALA:HB1	1.88	0.54
1:C:1958:PRO:HB2	1:C:1964:PHE:CD1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:GLU:OE2	1:A:1022:LYS:NZ	2.41	0.54
1:A:394:PHE:C	1:A:462:GLN:HB2	2.32	0.54
1:C:538:ARG:HG2	1:C:539:GLU:H	1.72	0.54
1:C:580:GLU:OE1	1:C:684:SER:N	2.41	0.54
1:C:1788:GLU:HG2	1:C:1789:PHE:N	2.23	0.54
2:D:39:ASN:OD1	2:D:57:ASP:N	2.41	0.54
2:D:91:GLU:O	2:D:95:GLU:HG3	2.07	0.54
1:A:81:ASP:O	1:A:126:ARG:NE	2.32	0.54
1:A:544:HIS:NE2	1:A:774:ALA:HB1	2.22	0.54
1:A:1827:PRO:HA	1:A:1850:PHE:HA	1.90	0.54
1:A:1958:PRO:HB2	1:A:1964:PHE:CD1	2.43	0.54
1:C:813:SER:O	1:C:817:ARG:HG3	2.07	0.54
1:C:1182:PHE:CD1	1:C:1294:ALA:HA	2.42	0.54
1:C:1406:SER:OG	1:C:1409:ARG:HG2	2.07	0.54
2:D:5:LYS:NZ	2:D:73:PRO:O	2.31	0.54
2:D:15:ALA:HB1	2:D:18:CYS:HB3	1.89	0.54
2:D:83:SER:OG	2:D:116:GLN:NE2	2.41	0.54
1:A:49:GLU:OE2	1:A:50:VAL:N	2.41	0.53
1:A:459:PHE:O	1:A:492:VAL:N	2.36	0.53
1:A:1885:ILE:HG13	1:A:1886:LYS:HG3	1.89	0.53
1:C:383:PHE:O	1:C:387:LEU:N	2.38	0.53
1:C:1760:HIS:CD2	1:C:1818:ALA:HB2	2.44	0.53
1:C:2006:ASN:O	1:C:2010:LEU:N	2.27	0.53
1:A:231:LEU:HD12	1:A:1262:LYS:HD2	1.90	0.53
1:A:743:LEU:HB3	1:A:746:THR:H	1.72	0.53
1:A:1780:ALA:H	2:B:166:LYS:NZ	2.07	0.53
1:C:1857:THR:N	1:C:1861:ARG:O	2.35	0.53
1:A:575:GLN:NE2	1:A:576:TYR:O	2.42	0.53
1:A:661:LEU:O	1:A:668:ARG:NH1	2.41	0.53
1:C:106:ASP:O	1:C:110:ARG:N	2.24	0.53
1:C:783:LEU:O	1:C:787:VAL:HG23	2.08	0.53
1:C:1557:ASN:O	1:C:1560:MET:HG2	2.08	0.53
1:C:1885:ILE:HG13	1:C:1886:LYS:HG3	1.89	0.53
1:C:1916:LEU:HA	1:C:1933:VAL:HG21	1.90	0.53
1:C:1985:LEU:HD12	1:C:2007:TYR:HD2	1.73	0.53
1:A:383:PHE:O	1:A:387:LEU:N	2.38	0.53
1:A:783:LEU:O	1:A:787:VAL:HG23	2.08	0.53
1:A:1273:ALA:HA	1:A:1276:LEU:HG	1.90	0.53
1:A:1727:HIS:HB3	1:C:1731:GLN:HB2	1.90	0.53
1:C:575:GLN:NE2	1:C:576:TYR:O	2.42	0.53
1:C:655:GLY:HA2	1:C:678:VAL:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1830:ASP:O	1:C:1834:LEU:N	2.35	0.53
1:C:1858:PRO:HD3	1:C:1870:HIS:CD2	2.43	0.53
1:A:1040:LEU:O	1:A:1044:PHE:HB2	2.08	0.53
1:A:1917:ALA:HB2	1:A:1980:LYS:HE3	1.89	0.53
1:A:1947:LEU:HD13	1:A:2013:ALA:HB1	1.90	0.53
1:C:128:GLN:HG3	1:C:1052:GLU:OE2	2.08	0.53
1:C:1753:ARG:HH21	1:C:1823:THR:HG21	1.74	0.53
1:A:51:VAL:HG21	1:A:1104:ARG:HB2	1.90	0.53
1:A:1666:SER:HB2	1:A:1669:GLU:HB2	1.91	0.53
1:A:1727:HIS:CD2	1:C:1730:LEU:HD22	2.43	0.53
1:A:1788:GLU:HG2	1:A:1789:PHE:N	2.23	0.53
1:A:1806:ASN:OD1	1:A:1872:ARG:NH1	2.41	0.53
1:A:1916:LEU:HA	1:A:1933:VAL:HG21	1.90	0.53
1:C:1154:GLU:HB3	1:C:1157:VAL:HG22	1.90	0.53
1:C:1848:ARG:NH2	1:C:1879:ASP:O	2.42	0.53
1:C:1872:ARG:HA	1:C:1897:THR:O	2.09	0.53
1:A:517:HIS:HB3	1:A:521:TYR:CG	2.44	0.53
1:C:517:HIS:HB3	1:C:521:TYR:CG	2.44	0.53
1:C:1430:ALA:O	1:C:1434:GLN:HB3	2.09	0.53
1:C:1651:SER:HB3	1:C:1654:VAL:HG13	1.91	0.53
1:C:1806:ASN:OD1	1:C:1872:ARG:NH1	2.42	0.53
1:A:120:TRP:HZ3	1:A:839:ALA:HB2	1.74	0.53
1:A:1985:LEU:HD12	1:A:2007:TYR:HD2	1.73	0.53
1:C:49:GLU:OE2	1:C:1022:LYS:NZ	2.41	0.53
1:C:910:GLU:H	1:C:910:GLU:CD	2.16	0.53
1:C:1718:ARG:O	1:C:1720:TYR:N	2.42	0.53
1:A:75:LEU:HB3	1:A:1061:CYS:SG	2.49	0.53
1:A:1557:ASN:O	1:A:1560:MET:HG2	2.08	0.53
1:A:1900:THR:O	1:A:1904:VAL:HG23	2.09	0.53
1:C:75:LEU:HB3	1:C:1061:CYS:SG	2.49	0.53
1:C:1040:LEU:O	1:C:1044:PHE:HB2	2.08	0.53
1:C:1666:SER:HB2	1:C:1669:GLU:HB2	1.91	0.53
2:D:117:ILE:HD11	2:D:156:GLU:HB2	1.90	0.53
1:A:128:GLN:HG3	1:A:1052:GLU:OE2	2.08	0.53
1:A:1751:TYR:HE1	1:A:1772:LYS:NZ	2.07	0.53
1:A:1858:PRO:HD3	1:A:1870:HIS:CD2	2.43	0.53
2:B:9:VAL:HA	2:B:58:THR:OG1	2.09	0.53
2:B:83:SER:OG	2:B:116:GLN:NE2	2.41	0.53
1:C:1508:MET:HE3	1:C:1676:LYS:NZ	2.24	0.53
1:A:1501:ARG:H	1:A:1501:ARG:HD3	1.74	0.52
1:C:281:LEU:HD11	1:C:340:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:661:LEU:O	1:C:668:ARG:NH1	2.41	0.52
1:C:1133:LYS:O	1:C:1137:SER:OG	2.16	0.52
1:C:1573:GLU:H	1:C:1578:LEU:HD11	1.73	0.52
1:C:1998:GLU:O	1:C:2002:GLU:N	2.28	0.52
1:A:128:GLN:HG2	1:A:134:TYR:CE2	2.44	0.52
1:A:155:GLU:HA	1:A:158:ALA:HB3	1.91	0.52
1:A:910:GLU:H	1:A:910:GLU:CD	2.16	0.52
1:A:1486:TYR:OH	1:A:1539:ASP:HB2	2.09	0.52
1:A:1557:ASN:HA	1:A:1560:MET:HE3	1.91	0.52
1:A:1872:ARG:HA	1:A:1897:THR:O	2.09	0.52
1:C:128:GLN:HG2	1:C:134:TYR:CE2	2.44	0.52
1:C:137:VAL:HG11	1:C:1144:CYS:SG	2.50	0.52
1:C:1800:GLU:CD	1:C:1817:LYS:HB3	2.34	0.52
1:C:1827:PRO:HA	1:C:1850:PHE:HA	1.90	0.52
2:D:114:GLY:H	2:D:156:GLU:HA	1.73	0.52
1:A:284:TYR:CZ	1:A:291:LYS:HB2	2.45	0.52
1:A:393:PRO:HD3	1:A:605:PRO:HB3	1.92	0.52
1:A:507:PRO:HG2	1:A:518:ILE:HD13	1.91	0.52
1:A:1569:LYS:HA	1:A:1572:GLN:HG3	1.92	0.52
1:A:1785:ARG:HA	1:A:1788:GLU:OE2	2.10	0.52
1:A:1800:GLU:CD	1:A:1817:LYS:HB3	2.34	0.52
1:A:1848:ARG:NH2	1:A:1879:ASP:O	2.42	0.52
2:B:29:PRO:HA	2:B:32:TYR:HD2	1.74	0.52
1:C:51:VAL:HG21	1:C:1104:ARG:HB2	1.90	0.52
1:C:637:PHE:HD2	1:C:655:GLY:C	2.17	0.52
1:C:910:GLU:OE1	1:C:910:GLU:N	2.29	0.52
1:C:1436:GLY:O	1:C:1440:GLN:HG3	2.09	0.52
1:C:1785:ARG:HA	1:C:1788:GLU:OE2	2.10	0.52
1:A:637:PHE:HD2	1:A:655:GLY:C	2.17	0.52
1:A:1430:ALA:O	1:A:1434:GLN:HB3	2.09	0.52
1:A:1505:GLN:HG3	1:A:1676:LYS:NZ	2.24	0.52
1:A:1651:SER:HB3	1:A:1654:VAL:HG13	1.91	0.52
1:A:1753:ARG:HH21	1:A:1823:THR:HG21	1.74	0.52
1:C:120:TRP:HZ3	1:C:839:ALA:HB2	1.74	0.52
1:C:1557:ASN:HA	1:C:1560:MET:HE3	1.91	0.52
1:A:137:VAL:HG11	1:A:1144:CYS:SG	2.50	0.52
1:A:1436:GLY:O	1:A:1440:GLN:HG3	2.09	0.52
1:A:1513:LEU:O	1:A:1517:THR:N	2.37	0.52
1:C:231:LEU:HD12	1:C:1262:LYS:HD2	1.91	0.52
1:C:393:PRO:HD3	1:C:605:PRO:HB3	1.92	0.52
1:C:1947:LEU:HD13	1:C:2013:ALA:HB1	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:ILE:N	1:A:530:LYS:O	2.42	0.52
1:A:1523:GLU:O	1:A:1526:ARG:N	2.43	0.52
1:A:1760:HIS:CD2	1:A:1818:ALA:HB2	2.44	0.52
1:C:106:ASP:N	1:C:109:VAL:HB	2.25	0.52
1:C:754:GLU:HG2	1:C:793:ILE:HD12	1.92	0.52
1:C:1273:ALA:HA	1:C:1276:LEU:HG	1.90	0.52
1:A:544:HIS:N	1:A:777:HIS:HE1	2.07	0.52
1:A:835:TYR:HD1	1:A:839:ALA:HB3	1.75	0.52
1:A:1508:MET:HE3	1:A:1676:LYS:NZ	2.24	0.52
2:B:37:PHE:O	2:B:40:TYR:OH	2.21	0.52
2:B:114:GLY:H	2:B:156:GLU:HA	1.73	0.52
2:B:117:ILE:HD11	2:B:156:GLU:HB2	1.91	0.52
1:C:326:ILE:N	1:C:530:LYS:O	2.42	0.52
1:C:507:PRO:HG2	1:C:518:ILE:HD13	1.91	0.52
1:C:1161:VAL:HG12	1:C:1165:TYR:HE1	1.73	0.52
1:C:2007:TYR:HA	1:C:2010:LEU:HB2	1.90	0.52
1:A:575:GLN:NE2	1:A:584:GLN:O	2.43	0.52
1:C:575:GLN:NE2	1:C:584:GLN:O	2.43	0.52
1:A:570:LEU:HD12	1:A:613:PRO:HD2	1.91	0.52
1:A:1718:ARG:O	1:A:1720:TYR:N	2.42	0.52
1:C:284:TYR:CZ	1:C:291:LYS:HB2	2.45	0.52
2:D:29:PRO:HA	2:D:32:TYR:HD2	1.74	0.52
1:A:703:HIS:O	1:A:704:LYS:HD2	2.10	0.52
1:C:383:PHE:HE1	1:C:642:CYS:O	1.93	0.52
1:C:569:ASN:OD1	1:C:609:HIS:N	2.33	0.52
1:C:703:HIS:O	1:C:704:LYS:HD2	2.10	0.52
1:C:1569:LYS:HA	1:C:1572:GLN:NE2	2.24	0.52
1:A:569:ASN:H	1:A:639:HIS:CD2	2.28	0.51
1:C:1486:TYR:OH	1:C:1539:ASP:HB2	2.09	0.51
1:C:1505:GLN:HG3	1:C:1676:LYS:NZ	2.24	0.51
1:C:1523:GLU:O	1:C:1526:ARG:N	2.43	0.51
1:C:2010:LEU:O	1:C:2014:LEU:N	2.43	0.51
1:A:1503:LYS:HD3	1:A:1554:LEU:HD22	1.92	0.51
1:A:1569:LYS:HA	1:A:1572:GLN:NE2	2.24	0.51
1:A:2007:TYR:HA	1:A:2010:LEU:HB2	1.91	0.51
1:C:835:TYR:HD1	1:C:839:ALA:HB3	1.75	0.51
1:C:1501:ARG:HD3	1:C:1501:ARG:H	1.74	0.51
1:A:152:GLN:HG3	1:A:1386:THR:HG21	1.93	0.51
1:A:511:LEU:N	1:A:529:THR:O	2.43	0.51
1:A:589:ILE:HG12	1:A:621:LEU:HD21	1.92	0.51
1:A:1522:GLU:O	1:A:1525:LEU:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:155:GLU:HA	1:C:158:ALA:HB3	1.91	0.51
1:C:1528:SER:O	1:C:1532:ILE:HG13	2.11	0.51
1:C:1751:TYR:HE1	1:C:1772:LYS:NZ	2.07	0.51
1:C:1900:THR:O	1:C:1904:VAL:HG23	2.09	0.51
1:C:2002:GLU:HA	1:C:2005:ARG:NH1	2.26	0.51
2:D:69:PRO:HA	2:D:72:TYR:CG	2.46	0.51
1:A:1718:ARG:HD3	1:A:1720:TYR:CZ	2.46	0.51
1:C:114:GLU:O	1:C:118:GLU:N	2.41	0.51
1:C:679:ASP:N	1:C:697:MET:HE1	2.26	0.51
1:C:1505:GLN:HG3	1:C:1676:LYS:HZ3	1.74	0.51
1:A:106:ASP:O	1:A:110:ARG:N	2.24	0.51
1:A:1803:LYS:HE2	2:B:28:PHE:CD1	2.46	0.51
2:B:126:ILE:HG23	2:B:136:PRO:HG3	1.93	0.51
1:C:152:GLN:HG3	1:C:1386:THR:HG21	1.93	0.51
1:C:231:LEU:HD13	1:C:1259:TRP:HA	1.91	0.51
1:C:570:LEU:HD12	1:C:613:PRO:HD2	1.91	0.51
1:A:1474:ILE:HB	1:A:1477:ILE:HD12	1.93	0.51
1:C:544:HIS:N	1:C:777:HIS:HE1	2.07	0.51
2:D:28:PHE:HB2	2:D:31:GLU:CD	2.36	0.51
1:A:281:LEU:HD11	1:A:340:ILE:HG12	1.91	0.51
1:A:672:PHE:HE2	1:A:711:LEU:HB2	1.75	0.51
1:A:1539:ASP:O	1:A:1543:ARG:NE	2.44	0.51
1:C:326:ILE:HD12	1:C:510:CYS:SG	2.51	0.51
1:C:400:HIS:HE1	1:C:402:ALA:HB3	1.76	0.51
1:C:469:ASP:OD1	1:C:469:ASP:N	2.44	0.51
1:C:589:ILE:HG12	1:C:621:LEU:HD21	1.92	0.51
1:C:1503:LYS:HD3	1:C:1554:LEU:HD22	1.92	0.51
1:C:1653:ASN:ND2	1:C:1881:ALA:H	2.01	0.51
2:D:9:VAL:HA	2:D:58:THR:OG1	2.10	0.51
1:A:383:PHE:HE1	1:A:642:CYS:O	1.93	0.51
1:A:567:VAL:HG12	1:A:570:LEU:HD21	1.93	0.51
1:A:1502:VAL:O	1:A:1506:VAL:HG23	2.11	0.51
1:A:1600:LEU:HA	1:A:1603:MET:SD	2.51	0.51
1:A:2006:ASN:O	1:A:2010:LEU:N	2.27	0.51
2:B:28:PHE:HB2	2:B:31:GLU:CD	2.35	0.51
1:C:109:VAL:HG21	1:C:625:ALA:HB1	1.93	0.51
1:C:933:PHE:O	1:C:937:LEU:HG	2.11	0.51
1:C:1502:VAL:O	1:C:1506:VAL:HG23	2.11	0.51
1:C:1522:GLU:O	1:C:1525:LEU:HB3	2.10	0.51
1:C:1556:PHE:O	1:C:1559:HIS:HB2	2.11	0.51
1:C:1712:PRO:HA	1:C:1715:GLU:OE2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1718:ARG:HD3	1:C:1720:TYR:CZ	2.46	0.51
1:A:231:LEU:HD13	1:A:1259:TRP:HA	1.91	0.51
1:A:1917:ALA:O	1:A:1921:GLU:N	2.38	0.51
1:A:1923:ASP:HA	1:A:1925:PRO:HD3	1.93	0.51
1:A:1968:ASN:O	1:A:1972:LEU:HG	2.11	0.51
1:A:2002:GLU:HA	1:A:2005:ARG:NH1	2.26	0.51
2:B:69:PRO:HA	2:B:72:TYR:CG	2.46	0.51
1:C:1569:LYS:HA	1:C:1572:GLN:HG3	1.92	0.51
1:A:1528:SER:O	1:A:1532:ILE:HG13	2.11	0.51
1:A:1730:LEU:HD22	1:C:1727:HIS:NE2	2.26	0.51
1:C:511:LEU:N	1:C:529:THR:O	2.43	0.51
1:C:569:ASN:H	1:C:639:HIS:CD2	2.28	0.51
1:C:946:LEU:O	1:C:950:GLN:N	2.44	0.51
1:C:1693:TYR:HA	1:C:1696:MET:SD	2.51	0.51
1:C:1828:TYR:H	1:C:1850:PHE:HA	1.75	0.51
1:A:109:VAL:HG21	1:A:625:ALA:HB1	1.93	0.50
1:A:220:GLU:HA	1:A:223:ARG:NH2	2.26	0.50
1:A:580:GLU:OE1	1:A:684:SER:N	2.41	0.50
1:A:1412:VAL:O	1:A:1416:VAL:HG23	2.11	0.50
1:A:1487:LEU:HD12	1:A:1490:ARG:HD3	1.93	0.50
1:A:1630:TYR:CZ	1:A:1673:CYS:HB2	2.46	0.50
1:A:1693:TYR:HA	1:A:1696:MET:SD	2.51	0.50
1:A:1707:TYR:O	1:A:1711:ILE:HG12	2.12	0.50
1:A:1730:LEU:HD22	1:C:1727:HIS:CE1	2.46	0.50
2:B:113:VAL:HG12	2:B:155:VAL:HG23	1.93	0.50
1:C:1630:TYR:CZ	1:C:1673:CYS:HB2	2.46	0.50
1:C:1923:ASP:HA	1:C:1925:PRO:HD3	1.93	0.50
2:D:81:CYS:HA	2:D:113:VAL:HG23	1.93	0.50
1:A:106:ASP:N	1:A:109:VAL:HB	2.25	0.50
1:A:125:ARG:HB3	1:A:128:GLN:HB2	1.94	0.50
1:A:478:ASP:OD1	1:A:483:SER:OG	2.23	0.50
1:A:932:TRP:HA	1:A:935:PHE:HD2	1.76	0.50
1:A:1556:PHE:O	1:A:1559:HIS:HB2	2.11	0.50
1:A:1614:ALA:O	1:A:1618:GLN:HG2	2.11	0.50
1:A:2010:LEU:O	1:A:2014:LEU:N	2.43	0.50
1:C:108:GLN:HG3	1:C:732:HIS:CD2	2.47	0.50
1:C:394:PHE:HE2	1:C:492:VAL:HG11	1.77	0.50
1:C:548:ARG:HB2	1:C:716:SER:HB3	1.93	0.50
1:C:576:TYR:HA	1:C:633:LEU:HD13	1.93	0.50
1:C:672:PHE:HE2	1:C:711:LEU:HB2	1.75	0.50
1:C:1140:HIS:HA	1:C:1143:LEU:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1412:VAL:O	1:C:1416:VAL:HG23	2.11	0.50
1:C:1556:PHE:O	1:C:1560:MET:HE3	2.11	0.50
1:C:1614:ALA:O	1:C:1618:GLN:HG2	2.11	0.50
1:C:1936:GLY:HA3	2:D:37:PHE:CE1	2.45	0.50
1:A:754:GLU:HG2	1:A:793:ILE:HD12	1.92	0.50
1:C:220:GLU:HA	1:C:223:ARG:NH2	2.26	0.50
1:C:1765:ASP:O	1:C:1766:GLU:HG2	2.11	0.50
1:A:47:LEU:HD11	1:A:1099:LEU:HD23	1.93	0.50
1:A:108:GLN:HG3	1:A:732:HIS:CD2	2.47	0.50
1:A:121:VAL:HG11	1:A:841:ARG:HG2	1.94	0.50
1:A:326:ILE:HD12	1:A:510:CYS:SG	2.51	0.50
1:A:469:ASP:OD1	1:A:469:ASP:N	2.44	0.50
1:A:576:TYR:HA	1:A:633:LEU:HD13	1.93	0.50
1:A:977:LEU:O	1:A:981:THR:OG1	2.24	0.50
2:B:81:CYS:HA	2:B:113:VAL:HG23	1.93	0.50
1:C:85:LEU:HD23	1:C:85:LEU:H	1.76	0.50
1:C:1051:HIS:CE1	1:C:1053:HIS:H	2.30	0.50
1:C:1513:LEU:O	1:C:1517:THR:N	2.37	0.50
1:C:1530:LYS:O	1:C:1533:LEU:HB2	2.11	0.50
1:C:1600:LEU:HA	1:C:1603:MET:SD	2.51	0.50
1:C:1958:PRO:HB3	1:C:1967:HIS:CE1	2.47	0.50
1:A:235:TYR:OH	1:A:1248:GLU:OE2	2.23	0.50
1:A:679:ASP:N	1:A:697:MET:HE1	2.26	0.50
1:A:933:PHE:O	1:A:937:LEU:HG	2.11	0.50
1:A:1556:PHE:O	1:A:1560:MET:HE3	2.11	0.50
1:A:1828:TYR:H	1:A:1850:PHE:HA	1.76	0.50
1:A:1992:ILE:HD12	1:A:1997:LYS:HA	1.94	0.50
1:C:1707:TYR:O	1:C:1711:ILE:HG12	2.12	0.50
1:C:1968:ASN:O	1:C:1972:LEU:HG	2.10	0.50
2:D:6:CYS:HA	2:D:77:VAL:O	2.12	0.50
2:D:126:ILE:HG23	2:D:136:PRO:HG3	1.93	0.50
1:A:548:ARG:HB2	1:A:716:SER:HB3	1.93	0.50
1:A:780:LEU:HD22	1:A:808:MET:HE1	1.94	0.50
1:A:946:LEU:O	1:A:950:GLN:N	2.44	0.50
1:A:1051:HIS:CE1	1:A:1053:HIS:H	2.29	0.50
2:B:72:TYR:OH	2:B:100:GLU:HG3	2.12	0.50
1:C:244:VAL:HB	1:C:246:ARG:HD3	1.94	0.50
1:C:1474:ILE:HB	1:C:1477:ILE:HD12	1.93	0.50
1:C:1500:ALA:O	1:C:1503:LYS:N	2.45	0.50
1:C:1814:ASP:OD1	1:C:1819:TYR:OH	2.15	0.50
1:C:1992:ILE:HD12	1:C:1997:LYS:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1500:ALA:O	1:A:1503:LYS:N	2.45	0.50
1:A:1568:MET:HA	1:A:1581:LEU:HD11	1.93	0.50
1:A:1857:THR:N	1:A:1861:ARG:O	2.35	0.50
1:A:1989:LYS:HG3	1:A:1992:ILE:HD11	1.94	0.50
1:C:954:THR:HG23	1:C:959:ARG:HD2	1.94	0.50
1:C:1122:GLU:OE2	1:C:1125:ALA:HB3	2.12	0.50
2:D:80:VAL:HG23	2:D:112:LEU:HD23	1.94	0.50
2:D:113:VAL:HG12	2:D:155:VAL:HG23	1.93	0.50
2:D:164:GLY:O	2:D:168:VAL:HG23	2.12	0.50
1:A:244:VAL:HB	1:A:246:ARG:HD3	1.94	0.50
1:A:1720:TYR:O	1:C:1734:PHE:HE1	1.95	0.50
1:A:1856:PHE:CZ	1:A:1870:HIS:HB2	2.47	0.50
2:B:28:PHE:O	2:B:32:TYR:N	2.45	0.50
2:B:64:TYR:O	2:B:68:ARG:HG2	2.12	0.50
1:C:466:ARG:HD3	1:C:614:GLU:HB3	1.94	0.50
1:C:938:MET:HG2	1:C:942:MET:HE1	1.94	0.50
1:C:1539:ASP:O	1:C:1543:ARG:NE	2.44	0.50
1:A:789:ARG:HD3	1:A:903:LEU:HD22	1.93	0.50
1:A:1712:PRO:HA	1:A:1715:GLU:OE2	2.11	0.50
2:B:6:CYS:HA	2:B:77:VAL:O	2.12	0.50
1:C:120:TRP:HB3	1:C:838:TYR:HB3	1.93	0.50
1:C:789:ARG:HD3	1:C:903:LEU:HD22	1.93	0.50
1:C:945:HIS:O	1:C:949:GLY:N	2.42	0.50
1:C:1856:PHE:HA	1:C:1862:ALA:HA	1.93	0.50
1:A:400:HIS:HE1	1:A:402:ALA:HB3	1.76	0.49
1:A:1958:PRO:HB3	1:A:1967:HIS:CE1	2.47	0.49
1:C:125:ARG:NH2	1:C:1003:ASP:O	2.44	0.49
1:C:1010:ARG:HB3	1:C:1014:PHE:CE2	2.47	0.49
1:C:1845:TYR:H	1:C:1847:LEU:HD21	1.76	0.49
2:D:72:TYR:OH	2:D:100:GLU:HG3	2.12	0.49
1:A:85:LEU:HD23	1:A:85:LEU:H	1.76	0.49
1:A:120:TRP:HB3	1:A:838:TYR:HB3	1.93	0.49
1:A:461:LYS:HZ2	1:A:489:LEU:HA	1.76	0.49
1:A:1167:PRO:O	1:A:1171:ILE:HG13	2.12	0.49
1:A:1530:LYS:O	1:A:1533:LEU:HB2	2.12	0.49
1:A:1724:ALA:HB2	1:C:1734:PHE:CD1	2.47	0.49
2:B:164:GLY:O	2:B:168:VAL:HG23	2.12	0.49
1:C:1988:ASN:O	1:C:1992:ILE:HG23	2.12	0.49
1:A:125:ARG:HH22	1:A:1003:ASP:CA	2.25	0.49
1:A:125:ARG:HH12	1:A:1003:ASP:HA	1.78	0.49
1:A:909:HIS:HB3	1:A:938:MET:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:ARG:HD3	1:A:1007:LEU:C	2.37	0.49
1:A:1256:CYS:O	1:A:1260:VAL:HG23	2.12	0.49
1:A:1845:TYR:H	1:A:1847:LEU:HD21	1.76	0.49
1:C:125:ARG:HH22	1:C:1003:ASP:CA	2.25	0.49
1:C:125:ARG:HB3	1:C:128:GLN:HB2	1.94	0.49
1:C:380:ALA:HA	1:C:383:PHE:CD2	2.40	0.49
1:C:623:LEU:HD12	1:C:624:PRO:HD2	1.94	0.49
1:C:1400:VAL:HG12	1:C:1404:MET:SD	2.53	0.49
2:D:28:PHE:O	2:D:32:TYR:N	2.45	0.49
2:D:45:MET:HA	2:D:50:PRO:HA	1.94	0.49
1:A:57:GLU:O	1:A:61:LEU:HG	2.12	0.49
1:A:405:VAL:HA	1:A:449:PHE:HB2	1.95	0.49
1:A:623:LEU:HD12	1:A:624:PRO:HD2	1.95	0.49
1:A:1653:ASN:ND2	1:A:1881:ALA:H	2.01	0.49
2:B:80:VAL:HG23	2:B:112:LEU:HD23	1.94	0.49
1:C:340:ILE:HB	1:C:397:THR:HG23	1.94	0.49
1:C:567:VAL:HG12	1:C:570:LEU:HD21	1.93	0.49
1:C:956:ARG:HD3	1:C:1007:LEU:C	2.37	0.49
1:A:86:LEU:O	1:A:121:VAL:HA	2.13	0.49
1:A:88:GLN:O	1:A:119:ASP:HB3	2.13	0.49
1:A:1094:THR:O	1:A:1098:GLU:HB3	2.13	0.49
1:A:2002:GLU:HA	1:A:2005:ARG:HH12	1.77	0.49
1:C:460:PHE:HA	1:C:491:PRO:HA	1.94	0.49
1:C:932:TRP:HA	1:C:935:PHE:HD2	1.76	0.49
1:C:1167:PRO:O	1:C:1171:ILE:HG13	2.12	0.49
1:C:1256:CYS:O	1:C:1260:VAL:HG23	2.12	0.49
1:A:114:GLU:O	1:A:118:GLU:N	2.41	0.49
1:A:156:GLN:HE21	1:A:1297:TYR:HE2	1.59	0.49
1:A:466:ARG:HD3	1:A:614:GLU:HB3	1.94	0.49
1:A:1765:ASP:O	1:A:1766:GLU:HG2	2.11	0.49
1:A:1851:LEU:HD11	1:A:1873:LYS:HB2	1.95	0.49
1:C:47:LEU:HD11	1:C:1099:LEU:HD23	1.93	0.49
1:C:156:GLN:HE21	1:C:1297:TYR:HE2	1.59	0.49
1:C:955:PRO:HG2	1:C:958:LEU:HB2	1.94	0.49
1:C:1279:PRO:HB2	1:C:1283:ARG:HH21	1.76	0.49
1:A:924:ARG:HA	1:A:927:ILE:HD12	1.95	0.49
1:A:938:MET:HG2	1:A:942:MET:HE1	1.94	0.49
1:A:1409:ARG:O	1:A:1413:LEU:HG	2.13	0.49
2:B:9:VAL:HG22	2:B:80:VAL:HG12	1.95	0.49
1:C:338:LEU:HB2	1:C:401:LEU:HD21	1.95	0.49
1:C:1917:ALA:O	1:C:1921:GLU:N	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:64:TYR:O	2:D:68:ARG:HG2	2.12	0.49
1:A:1550:GLN:HA	1:A:1553:ASP:OD2	2.13	0.49
1:A:1961:PRO:HA	1:A:1964:PHE:CD2	2.48	0.49
1:C:57:GLU:O	1:C:61:LEU:HG	2.12	0.49
1:C:1568:MET:HA	1:C:1581:LEU:HD11	1.93	0.49
2:D:68:ARG:NH2	2:D:72:TYR:HH	2.10	0.49
1:A:789:ARG:HD2	1:A:903:LEU:HD13	1.95	0.49
1:A:1530:LYS:O	1:A:1534:THR:HG23	2.13	0.49
1:A:1988:ASN:O	1:A:1992:ILE:HG23	2.12	0.49
2:B:45:MET:HA	2:B:50:PRO:HA	1.94	0.49
1:C:1682:GLY:O	1:C:1686:LEU:HD23	2.12	0.49
1:C:1851:LEU:HD11	1:C:1873:LYS:HB2	1.95	0.49
1:C:1856:PHE:CZ	1:C:1870:HIS:HB2	2.47	0.49
1:A:125:ARG:NH2	1:A:1003:ASP:O	2.44	0.49
1:A:154:PHE:O	1:A:158:ALA:N	2.46	0.49
1:A:284:TYR:CE2	1:A:291:LYS:HB2	2.48	0.49
1:A:460:PHE:HA	1:A:491:PRO:HA	1.94	0.49
1:A:735:GLU:OE2	1:A:736:GLU:HG2	2.13	0.49
1:A:1682:GLY:O	1:A:1686:LEU:HD23	2.12	0.49
1:C:159:SER:HA	1:C:1473:ARG:NH2	2.28	0.49
1:C:544:HIS:CD2	1:C:774:ALA:HB1	2.48	0.49
1:C:910:GLU:O	1:C:914:LEU:HG	2.13	0.49
1:C:1094:THR:O	1:C:1098:GLU:HB3	2.13	0.49
1:A:928:LEU:HD13	1:A:978:GLU:HG2	1.95	0.48
1:A:1122:GLU:OE2	1:A:1125:ALA:HB3	2.12	0.48
1:A:1279:PRO:HB2	1:A:1283:ARG:HH21	1.76	0.48
1:A:1856:PHE:CE1	1:A:1870:HIS:HB2	2.48	0.48
1:C:86:LEU:O	1:C:121:VAL:HA	2.13	0.48
1:C:235:TYR:CG	1:C:236:PRO:HD2	2.48	0.48
1:C:780:LEU:HD22	1:C:808:MET:HE1	1.94	0.48
1:C:784:VAL:O	1:C:788:ILE:HG12	2.13	0.48
1:C:789:ARG:HD2	1:C:903:LEU:HD13	1.95	0.48
1:C:1989:LYS:HG3	1:C:1992:ILE:HD11	1.94	0.48
1:A:338:LEU:HB2	1:A:401:LEU:HD21	1.95	0.48
1:A:544:HIS:CD2	1:A:774:ALA:HB1	2.48	0.48
1:A:784:VAL:O	1:A:788:ILE:HG12	2.13	0.48
1:A:1025:ALA:O	1:A:1029:GLN:HG3	2.13	0.48
1:A:1140:HIS:HA	1:A:1143:LEU:HD12	1.93	0.48
1:A:1401:GLN:HA	1:A:1404:MET:CE	2.44	0.48
1:A:1856:PHE:HA	1:A:1862:ALA:HA	1.93	0.48
1:C:1784:HIS:O	1:C:1787:GLU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:954:THR:HG23	1:A:959:ARG:HD2	1.94	0.48
1:A:1010:ARG:HB3	1:A:1014:PHE:CE2	2.48	0.48
1:A:1623:ALA:O	1:A:1627:VAL:HG23	2.14	0.48
1:A:1902:VAL:HG11	1:A:1966:HIS:HB3	1.94	0.48
1:C:125:ARG:HH12	1:C:1003:ASP:HA	1.78	0.48
1:C:215:VAL:HG22	1:C:218:ARG:NH2	2.28	0.48
1:C:1275:ASP:OD1	1:C:1275:ASP:N	2.42	0.48
1:C:1482:SER:HB2	1:C:1532:ILE:HG12	1.95	0.48
1:C:1487:LEU:HD12	1:C:1490:ARG:HD3	1.93	0.48
1:C:1534:THR:HA	1:C:1537:GLU:OE1	2.14	0.48
2:D:69:PRO:HA	2:D:72:TYR:CD1	2.48	0.48
1:A:235:TYR:CG	1:A:236:PRO:HD2	2.48	0.48
1:A:548:ARG:O	1:A:716:SER:N	2.47	0.48
1:A:569:ASN:OD1	1:A:609:HIS:N	2.33	0.48
1:A:1780:ALA:CB	2:B:166:LYS:HZ2	2.25	0.48
2:B:69:PRO:HA	2:B:72:TYR:CD1	2.48	0.48
1:C:121:VAL:HG11	1:C:841:ARG:HG2	1.93	0.48
1:C:154:PHE:O	1:C:158:ALA:N	2.46	0.48
1:C:259:GLN:O	1:C:328:SER:HA	2.13	0.48
1:C:284:TYR:CE2	1:C:291:LYS:HB2	2.48	0.48
1:C:1039:THR:O	1:C:1040:LEU:C	2.56	0.48
1:C:1409:ARG:O	1:C:1413:LEU:HG	2.13	0.48
1:C:1530:LYS:O	1:C:1534:THR:HG23	2.13	0.48
1:A:159:SER:HA	1:A:1473:ARG:NH2	2.28	0.48
1:A:340:ILE:HB	1:A:397:THR:HG23	1.94	0.48
1:A:688:LEU:HD22	1:A:694:LEU:HD21	1.94	0.48
1:A:789:ARG:HD3	1:A:903:LEU:HB3	1.95	0.48
1:A:955:PRO:O	1:A:958:LEU:N	2.41	0.48
2:B:57:ASP:OD1	2:B:58:THR:N	2.47	0.48
1:C:405:VAL:HA	1:C:449:PHE:HB2	1.95	0.48
1:C:573:ARG:HB3	1:C:638:TYR:HE2	1.79	0.48
1:C:909:HIS:HB3	1:C:938:MET:HB2	1.95	0.48
1:A:259:GLN:O	1:A:328:SER:HA	2.13	0.48
1:A:955:PRO:HG2	1:A:958:LEU:HB2	1.95	0.48
1:A:1400:VAL:HG12	1:A:1404:MET:SD	2.53	0.48
1:A:1999:TYR:HB2	2:B:70:LEU:O	2.13	0.48
1:C:131:SER:O	1:C:135:SER:N	2.26	0.48
1:C:466:ARG:NH2	1:C:616:TYR:H	2.12	0.48
1:C:841:ARG:O	1:C:843:PRO:HD3	2.14	0.48
1:C:1121:LEU:HB3	1:C:1175:THR:HG21	1.95	0.48
1:C:1649:ASN:ND2	1:C:1705:GLU:OE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1797:ASP:OD1	1:C:1817:LYS:NZ	2.29	0.48
1:C:1937:SER:HB3	1:C:1977:PHE:HZ	1.79	0.48
2:D:57:ASP:OD1	2:D:58:THR:N	2.47	0.48
1:A:84:GLU:HG2	1:A:124:HIS:HB3	1.96	0.48
1:A:295:ASN:ND2	1:A:618:GLU:OE1	2.47	0.48
1:A:910:GLU:O	1:A:914:LEU:HG	2.13	0.48
1:A:1369:LYS:HB3	1:A:1374:MET:SD	2.53	0.48
1:A:1482:SER:HB2	1:A:1532:ILE:HG12	1.95	0.48
1:A:1738:MET:HE1	1:C:1720:TYR:HB3	1.95	0.48
1:A:1814:ASP:OD1	1:A:1819:TYR:OH	2.15	0.48
1:A:1856:PHE:CD1	1:A:1872:ARG:HG3	2.49	0.48
1:C:88:GLN:O	1:C:119:ASP:HB3	2.13	0.48
1:C:231:LEU:HD12	1:C:1262:LYS:CD	2.44	0.48
1:A:394:PHE:HE2	1:A:492:VAL:HG11	1.76	0.48
1:C:735:GLU:OE2	1:C:736:GLU:HG2	2.13	0.48
1:C:836:VAL:HA	1:C:840:PHE:CB	2.44	0.48
1:C:1111:GLY:O	1:C:1115:THR:OG1	2.12	0.48
1:C:1576:GLU:H	1:C:1576:GLU:CD	2.22	0.48
1:C:1781:GLU:CD	2:D:166:LYS:HZ3	2.20	0.48
1:C:1902:VAL:HG11	1:C:1966:HIS:HB3	1.94	0.48
1:C:1961:PRO:HA	1:C:1964:PHE:CD2	2.48	0.48
1:C:1989:LYS:HA	1:C:1992:ILE:HG12	1.95	0.48
1:C:2002:GLU:HA	1:C:2005:ARG:HH12	1.77	0.48
1:A:215:VAL:HG22	1:A:218:ARG:NH2	2.27	0.48
1:A:457:THR:HA	1:A:459:PHE:CE1	2.49	0.48
1:A:559:ASN:HB2	1:A:706:VAL:HB	1.96	0.48
1:A:836:VAL:HA	1:A:840:PHE:CB	2.44	0.48
1:A:1649:ASN:ND2	1:A:1705:GLU:OE1	2.47	0.48
1:A:1912:LYS:HE2	2:B:37:PHE:CD1	2.48	0.48
1:A:1989:LYS:HA	1:A:1992:ILE:HG12	1.95	0.48
1:C:295:ASN:ND2	1:C:618:GLU:OE1	2.47	0.48
1:C:548:ARG:O	1:C:716:SER:N	2.47	0.48
1:C:1012:PHE:O	1:C:1016:LEU:HG	2.14	0.48
1:C:1475:SER:O	1:C:1478:ARG:HG2	2.14	0.48
1:A:346:LEU:O	1:A:387:LEU:HD12	2.14	0.48
1:A:1730:LEU:HD22	1:C:1727:HIS:CD2	2.49	0.48
2:B:87:PRO:HB3	2:B:137:ILE:HD11	1.96	0.48
1:C:688:LEU:HD22	1:C:694:LEU:HD21	1.94	0.48
1:C:1042:MET:SD	1:C:1043:GLU:N	2.87	0.48
1:C:1369:LYS:HB3	1:C:1374:MET:SD	2.53	0.48
1:C:1401:GLN:HA	1:C:1404:MET:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1437:LEU:HA	1:C:1440:GLN:HE21	1.79	0.48
1:C:1550:GLN:HA	1:C:1553:ASP:OD2	2.13	0.48
1:A:231:LEU:HB3	1:A:1259:TRP:HD1	1.79	0.47
1:A:641:SER:OG	1:A:649:ALA:O	2.31	0.47
1:A:841:ARG:O	1:A:843:PRO:HD3	2.14	0.47
1:C:1025:ALA:O	1:C:1029:GLN:HG3	2.13	0.47
1:A:220:GLU:HA	1:A:223:ARG:CZ	2.44	0.47
1:A:573:ARG:HB3	1:A:638:TYR:HE2	1.79	0.47
1:A:1475:SER:O	1:A:1478:ARG:HG2	2.14	0.47
1:A:1784:HIS:O	1:A:1787:GLU:N	2.46	0.47
1:C:924:ARG:HA	1:C:927:ILE:HD12	1.95	0.47
1:C:998:ALA:HB2	1:C:1044:PHE:CE1	2.49	0.47
1:C:1114:LEU:HD11	1:C:1165:TYR:HA	1.95	0.47
1:C:1623:ALA:O	1:C:1627:VAL:HG23	2.13	0.47
1:C:1856:PHE:CE1	1:C:1870:HIS:HB2	2.48	0.47
1:C:1909:MET:HE1	1:C:1974:PHE:N	2.30	0.47
1:A:1386:THR:O	1:A:1390:LEU:HG	2.14	0.47
1:A:1534:THR:HA	1:A:1537:GLU:OE1	2.14	0.47
1:C:928:LEU:HD13	1:C:978:GLU:HG2	1.95	0.47
1:C:1788:GLU:O	1:C:1791:THR:N	2.47	0.47
1:C:1856:PHE:CD1	1:C:1872:ARG:HG3	2.49	0.47
1:C:1954:LEU:HB2	1:C:2017:LEU:HD13	1.96	0.47
1:A:231:LEU:HD12	1:A:1262:LYS:CD	2.44	0.47
1:A:268:LEU:HD12	1:A:495:GLN:O	2.15	0.47
1:A:1012:PHE:O	1:A:1016:LEU:HG	2.14	0.47
1:A:1520:PHE:CE2	1:A:1522:GLU:HG3	2.49	0.47
1:A:1731:GLN:NE2	1:C:1724:ALA:O	2.46	0.47
1:A:2001:ARG:HA	1:A:2004:GLU:HB2	1.96	0.47
1:C:231:LEU:HB3	1:C:1259:TRP:HD1	1.79	0.47
1:C:388:GLY:HA2	1:C:391:ARG:HH12	1.80	0.47
1:C:1769:PHE:HB2	1:C:1771:TYR:HE1	1.79	0.47
2:D:9:VAL:HG22	2:D:80:VAL:HG12	1.95	0.47
1:A:284:TYR:HD2	1:A:473:PHE:CZ	2.33	0.47
1:A:340:ILE:HD12	1:A:456:VAL:HG11	1.97	0.47
1:A:466:ARG:NH2	1:A:616:TYR:H	2.12	0.47
1:A:935:PHE:HD1	1:A:1000:PHE:CD1	2.33	0.47
1:A:1114:LEU:HD11	1:A:1165:TYR:HA	1.95	0.47
1:A:1738:MET:HE1	1:C:1720:TYR:CB	2.44	0.47
1:A:1937:SER:HB3	1:A:1977:PHE:HZ	1.79	0.47
1:A:1967:HIS:O	1:A:1971:ARG:HG3	2.14	0.47
1:C:152:GLN:HB3	1:C:1429:SER:OG	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:GLU:HA	1:C:223:ARG:CZ	2.44	0.47
1:C:726:LYS:O	1:C:730:LEU:HD13	2.14	0.47
1:C:976:GLY:O	1:C:980:ILE:HG13	2.15	0.47
1:C:1878:THR:HA	1:C:1892:CYS:H	1.79	0.47
2:D:165:LEU:O	2:D:168:VAL:HB	2.15	0.47
1:A:998:ALA:HB2	1:A:1044:PHE:CE1	2.50	0.47
1:A:1042:MET:SD	1:A:1043:GLU:N	2.87	0.47
1:A:1288:LEU:HD22	1:A:1392:VAL:HG13	1.95	0.47
1:A:1791:THR:HA	1:A:1799:VAL:HG21	1.97	0.47
1:A:1847:LEU:O	1:A:1848:ARG:HD2	2.15	0.47
1:C:280:ILE:HG12	1:C:341:LYS:HB2	1.97	0.47
1:C:746:THR:OG1	1:C:747:VAL:N	2.47	0.47
1:C:1253:LEU:O	1:C:1257:VAL:HG23	2.15	0.47
1:C:1285:LEU:HA	1:C:1288:LEU:HD12	1.96	0.47
2:D:158:SER:HB3	2:D:163:LYS:N	2.24	0.47
1:A:143:ARG:HH22	1:A:147:LYS:HD3	1.80	0.47
1:A:458:ASN:HB3	1:A:460:PHE:CZ	2.49	0.47
1:A:746:THR:OG1	1:A:747:VAL:N	2.47	0.47
1:A:916:TRP:CH2	1:A:931:ALA:HB1	2.50	0.47
1:A:976:GLY:O	1:A:980:ILE:HG13	2.15	0.47
1:A:1039:THR:O	1:A:1040:LEU:C	2.56	0.47
1:A:1121:LEU:HB3	1:A:1175:THR:HG21	1.95	0.47
1:A:1253:LEU:O	1:A:1257:VAL:HG23	2.15	0.47
1:A:1524:HIS:HA	1:A:1527:ARG:HD3	1.96	0.47
1:C:84:GLU:HG2	1:C:124:HIS:HB3	1.96	0.47
1:C:122:ILE:HD13	1:C:837:HIS:CG	2.50	0.47
1:C:268:LEU:HD12	1:C:495:GLN:O	2.15	0.47
1:C:340:ILE:HD12	1:C:456:VAL:HG11	1.97	0.47
1:C:789:ARG:HD3	1:C:903:LEU:HB3	1.95	0.47
1:C:916:TRP:CH2	1:C:931:ALA:HB1	2.50	0.47
1:C:1109:LEU:O	1:C:1112:LEU:HB2	2.15	0.47
1:C:1288:LEU:HD22	1:C:1392:VAL:HG13	1.95	0.47
1:C:1520:PHE:CE2	1:C:1522:GLU:HG3	2.49	0.47
1:C:1788:GLU:O	1:C:1789:PHE:C	2.57	0.47
1:C:1853:CYS:HA	1:C:1873:LYS:HA	1.96	0.47
1:C:2001:ARG:HA	1:C:2004:GLU:HB2	1.96	0.47
1:C:2011:ARG:O	1:C:2015:GLN:N	2.45	0.47
1:A:789:ARG:CD	1:A:903:LEU:HD13	2.45	0.47
1:A:994:ASN:C	1:A:994:ASN:ND2	2.70	0.47
1:A:1102:PRO:O	1:A:1105:GLN:NE2	2.48	0.47
1:A:1106:GLN:HG2	1:A:1107:HIS:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1109:LEU:O	1:A:1112:LEU:HB2	2.14	0.47
1:A:1143:LEU:HA	1:A:1146:HIS:CD2	2.50	0.47
1:C:458:ASN:HB3	1:C:460:PHE:CZ	2.49	0.47
1:C:1106:GLN:HG2	1:C:1107:HIS:CE1	2.50	0.47
1:C:1386:THR:O	1:C:1390:LEU:HG	2.14	0.47
1:C:1524:HIS:HA	1:C:1527:ARG:HD3	1.96	0.47
1:C:1996:GLN:HG3	1:C:1999:TYR:HD2	1.80	0.47
1:A:577:MET:HE1	1:A:581:ASP:O	2.15	0.47
1:A:799:ASN:HD22	1:A:802:ARG:HH22	1.62	0.47
1:A:1437:LEU:HA	1:A:1440:GLN:HE21	1.80	0.47
1:A:1769:PHE:HB2	1:A:1771:TYR:HE1	1.79	0.47
1:A:1909:MET:HE1	1:A:1974:PHE:N	2.30	0.47
1:C:116:TYR:CE1	1:C:778:HIS:HE1	2.33	0.47
1:C:346:LEU:O	1:C:387:LEU:HD12	2.14	0.47
1:C:559:ASN:HB2	1:C:706:VAL:HB	1.96	0.47
1:C:994:ASN:C	1:C:994:ASN:ND2	2.70	0.47
1:C:1143:LEU:HA	1:C:1146:HIS:CD2	2.50	0.47
1:C:1967:HIS:O	1:C:1971:ARG:HG3	2.14	0.47
1:A:221:THR:O	1:A:225:GLN:HG2	2.15	0.47
1:A:229:PRO:C	1:A:1262:LYS:HZ3	2.23	0.47
1:A:285:ASP:HB2	1:A:336:ILE:HD13	1.97	0.47
1:A:1151:ARG:HG3	1:A:1152:TYR:CD1	2.50	0.47
1:C:292:ILE:O	1:C:535:PHE:N	2.48	0.47
1:C:641:SER:OG	1:C:649:ALA:O	2.31	0.47
2:D:87:PRO:HB3	2:D:137:ILE:HD11	1.96	0.47
1:A:1091:PRO:O	1:A:1094:THR:HG22	2.15	0.46
1:A:1285:LEU:HA	1:A:1288:LEU:HD12	1.96	0.46
1:A:1673:CYS:HA	1:A:1678:PHE:CE2	2.50	0.46
2:B:165:LEU:O	2:B:168:VAL:HB	2.15	0.46
1:C:457:THR:HA	1:C:459:PHE:CE1	2.49	0.46
1:C:577:MET:HE1	1:C:581:ASP:O	2.15	0.46
1:C:935:PHE:HD1	1:C:1000:PHE:CD1	2.32	0.46
1:C:1102:PRO:O	1:C:1105:GLN:NE2	2.48	0.46
1:C:1772:LYS:HB2	1:C:1887:THR:OG1	2.15	0.46
1:A:380:ALA:HA	1:A:383:PHE:CD2	2.40	0.46
1:A:388:GLY:HA2	1:A:391:ARG:HH12	1.80	0.46
1:A:909:HIS:ND1	1:A:941:SER:OG	2.11	0.46
1:A:960:PHE:CG	1:A:965:LEU:HD21	2.50	0.46
1:A:1830:ASP:HB2	1:A:1833:GLU:HG3	1.97	0.46
1:A:1932:MET:SD	2:B:56:PHE:CZ	3.08	0.46
1:C:656:PHE:CD2	1:C:681:PRO:HD3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1012:PHE:CE1	1:C:1016:LEU:HD21	2.50	0.46
1:C:1630:TYR:O	1:C:1633:LEU:HB2	2.16	0.46
1:C:1791:THR:HA	1:C:1799:VAL:HG21	1.97	0.46
1:A:149:LEU:HD23	1:A:150:PRO:HD2	1.97	0.46
1:A:234:LEU:HB3	1:A:1384:LEU:HB2	1.97	0.46
1:A:280:ILE:HG12	1:A:341:LYS:HB2	1.97	0.46
1:A:726:LYS:O	1:A:730:LEU:HD13	2.14	0.46
1:A:1576:GLU:H	1:A:1576:GLU:CD	2.22	0.46
1:A:1760:HIS:C	1:A:1762:GLY:H	2.23	0.46
1:A:1788:GLU:O	1:A:1791:THR:N	2.48	0.46
1:C:284:TYR:HD2	1:C:473:PHE:CZ	2.33	0.46
1:C:555:PRO:HB3	1:C:707:PHE:CE2	2.51	0.46
1:C:1146:HIS:HA	1:C:1152:TYR:HD2	1.80	0.46
1:C:1807:PRO:HD2	1:C:1872:ARG:NH1	2.30	0.46
1:A:1807:PRO:HD2	1:A:1872:ARG:NH1	2.30	0.46
1:A:1847:LEU:N	1:A:1882:PHE:O	2.44	0.46
2:B:29:PRO:HA	2:B:32:TYR:CD2	2.51	0.46
1:C:115:MET:HE1	1:C:778:HIS:HA	1.98	0.46
1:C:221:THR:O	1:C:225:GLN:HG2	2.16	0.46
1:C:1091:PRO:O	1:C:1094:THR:HG22	2.15	0.46
1:C:1573:GLU:N	1:C:1578:LEU:HD11	2.30	0.46
1:C:1958:PRO:HB3	1:C:1967:HIS:ND1	2.30	0.46
2:D:29:PRO:HA	2:D:32:TYR:CD2	2.51	0.46
1:A:152:GLN:HB3	1:A:1429:SER:OG	2.14	0.46
1:A:292:ILE:O	1:A:535:PHE:N	2.48	0.46
1:A:1573:GLU:N	1:A:1578:LEU:HD11	2.30	0.46
1:A:1872:ARG:HG2	1:A:1898:VAL:HG12	1.98	0.46
1:A:1976:ASP:HA	1:A:1979:LYS:HE2	1.97	0.46
1:C:581:ASP:OD2	1:C:583:SER:OG	2.34	0.46
1:C:960:PHE:CG	1:C:965:LEU:HD21	2.50	0.46
1:C:1566:VAL:CA	1:C:1569:LYS:HZ3	2.28	0.46
1:C:1760:HIS:C	1:C:1762:GLY:H	2.23	0.46
1:C:1789:PHE:O	1:C:1793:ARG:HG3	2.15	0.46
1:A:122:ILE:HD13	1:A:837:HIS:CG	2.50	0.46
1:A:945:HIS:O	1:A:949:GLY:N	2.42	0.46
1:A:1009:ASP:OD1	1:A:1012:PHE:HB3	2.16	0.46
1:A:1133:LYS:O	1:A:1137:SER:OG	2.16	0.46
1:A:1165:TYR:C	1:A:1167:PRO:HD2	2.41	0.46
1:A:1853:CYS:HA	1:A:1873:LYS:HA	1.96	0.46
1:A:1996:GLN:HG3	1:A:1999:TYR:HD2	1.80	0.46
1:C:234:LEU:HB3	1:C:1384:LEU:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:632:HIS:HB2	1:C:659:ILE:O	2.15	0.46
1:C:1163:GLU:HA	1:C:1166:LEU:HG	1.98	0.46
1:C:1847:LEU:O	1:C:1848:ARG:HD2	2.14	0.46
2:D:86:SER:O	2:D:89:SER:OG	2.26	0.46
1:A:248:SER:H	1:A:826:ARG:CZ	2.28	0.46
1:A:300:LEU:HG	1:A:323:ARG:CD	2.46	0.46
1:A:636:THR:HG23	1:A:656:PHE:CE1	2.51	0.46
1:A:1388:ALA:O	1:A:1392:VAL:HG23	2.16	0.46
1:A:1630:TYR:O	1:A:1633:LEU:HB2	2.16	0.46
1:A:1722:LYS:O	1:A:1726:VAL:HG23	2.16	0.46
1:A:1780:ALA:H	2:B:166:LYS:HZ1	1.64	0.46
1:C:1009:ASP:OD1	1:C:1012:PHE:HB3	2.16	0.46
1:C:1151:ARG:HG3	1:C:1152:TYR:CD1	2.50	0.46
1:C:1267:ALA:O	1:C:1271:ARG:HG3	2.15	0.46
1:C:1401:GLN:HA	1:C:1404:MET:HE1	1.97	0.46
1:C:1976:ASP:HA	1:C:1979:LYS:HE2	1.97	0.46
1:A:1267:ALA:O	1:A:1271:ARG:HG3	2.15	0.46
1:A:1387:GLU:O	1:A:1391:VAL:HG23	2.15	0.46
1:A:1505:GLN:O	1:A:1509:SER:OG	2.24	0.46
1:C:227:ARG:NH1	1:C:1390:LEU:HB3	2.31	0.46
1:C:300:LEU:HG	1:C:323:ARG:CD	2.46	0.46
1:C:460:PHE:CB	1:C:489:LEU:HD13	2.46	0.46
1:C:799:ASN:HD22	1:C:802:ARG:HH22	1.62	0.46
1:C:1058:ASN:O	1:C:1107:HIS:ND1	2.46	0.46
1:C:1387:GLU:O	1:C:1391:VAL:HG23	2.15	0.46
1:C:1415:ALA:O	1:C:1419:VAL:HG22	2.16	0.46
1:C:1673:CYS:HA	1:C:1678:PHE:CE2	2.50	0.46
1:C:1779:LEU:HD13	2:D:26:ASN:CG	2.40	0.46
1:A:694:LEU:HD23	1:A:694:LEU:HA	1.81	0.46
1:A:776:SER:HA	1:A:779:VAL:HG22	1.98	0.46
1:A:1012:PHE:CE1	1:A:1016:LEU:HD21	2.50	0.46
1:A:1401:GLN:HA	1:A:1404:MET:HE1	1.97	0.46
1:A:1563:THR:O	1:A:1566:VAL:HB	2.16	0.46
1:A:1727:HIS:NE2	1:C:1730:LEU:HD22	2.30	0.46
1:A:1954:LEU:HB2	1:A:2017:LEU:HD13	1.96	0.46
2:B:129:LEU:HG	2:B:134:GLN:HB3	1.98	0.46
1:C:248:SER:H	1:C:826:ARG:CZ	2.28	0.46
1:C:812:VAL:HA	1:C:815:VAL:HG12	1.97	0.46
1:C:1985:LEU:HD12	1:C:2007:TYR:CD2	2.51	0.46
2:D:20:LEU:HG	2:D:40:TYR:HD2	1.81	0.46
1:A:116:TYR:CE1	1:A:778:HIS:HE1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:460:PHE:CB	1:A:489:LEU:HD13	2.46	0.46
1:A:555:PRO:HB3	1:A:707:PHE:CE2	2.51	0.46
1:A:581:ASP:OD2	1:A:583:SER:OG	2.34	0.46
1:A:598:PHE:O	1:A:600:ARG:NH2	2.48	0.46
1:A:1275:ASP:OD1	1:A:1275:ASP:N	2.42	0.46
1:A:1789:PHE:O	1:A:1793:ARG:HG3	2.15	0.46
1:C:279:GLY:HA2	1:C:341:LYS:O	2.16	0.46
1:C:1064:LEU:HD23	1:C:1106:GLN:OE1	2.16	0.46
1:C:1165:TYR:C	1:C:1167:PRO:HD2	2.41	0.46
1:C:1563:THR:O	1:C:1566:VAL:HB	2.16	0.46
1:C:1872:ARG:HG2	1:C:1898:VAL:HG12	1.98	0.46
1:A:1146:HIS:HA	1:A:1152:TYR:HD2	1.80	0.45
1:A:1415:ALA:O	1:A:1419:VAL:HG22	2.16	0.45
1:A:1653:ASN:ND2	1:A:1880:HIS:HB3	2.31	0.45
1:A:1878:THR:HA	1:A:1892:CYS:H	1.79	0.45
1:C:149:LEU:HD23	1:C:150:PRO:HD2	1.97	0.45
1:C:598:PHE:O	1:C:600:ARG:NH2	2.48	0.45
1:C:789:ARG:CD	1:C:903:LEU:HD13	2.45	0.45
1:C:1010:ARG:HB3	1:C:1014:PHE:CZ	2.51	0.45
1:C:1129:PHE:O	1:C:1133:LYS:HG2	2.16	0.45
1:C:1803:LYS:HE2	2:D:28:PHE:CD1	2.50	0.45
1:A:632:HIS:HB2	1:A:659:ILE:O	2.15	0.45
1:A:1129:PHE:O	1:A:1133:LYS:HG2	2.17	0.45
1:A:1769:PHE:HA	1:A:1890:ARG:HA	1.99	0.45
1:C:271:GLU:CD	1:C:493:THR:HB	2.41	0.45
1:C:1388:ALA:O	1:C:1392:VAL:HG23	2.16	0.45
1:A:292:ILE:HG22	1:A:535:PHE:HD2	1.81	0.45
1:A:1123:PRO:HA	1:A:1178:ARG:CZ	2.47	0.45
1:A:1848:ARG:O	1:A:1877:SER:HA	2.17	0.45
1:C:311:ALA:O	1:C:312:HIS:ND1	2.49	0.45
1:C:1108:PHE:CE1	1:C:1112:LEU:HD21	2.52	0.45
1:C:1469:HIS:O	1:C:1477:ILE:HG22	2.17	0.45
1:C:1475:SER:O	1:C:1479:THR:HG23	2.17	0.45
1:C:1830:ASP:HB2	1:C:1833:GLU:HG3	1.98	0.45
1:A:128:GLN:HA	1:A:1052:GLU:HG2	1.97	0.45
1:A:599:THR:HG22	1:A:600:ARG:N	2.28	0.45
1:C:636:THR:HG23	1:C:656:PHE:CE1	2.51	0.45
1:C:1769:PHE:HA	1:C:1890:ARG:HA	1.98	0.45
1:C:1884:TYR:CZ	1:C:1885:ILE:HG12	2.51	0.45
1:C:1931:GLN:HE21	1:C:1996:GLN:NE2	2.14	0.45
1:A:826:ARG:HB3	1:A:828:HIS:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1469:HIS:O	1:A:1477:ILE:HG22	2.17	0.45
2:B:3:THR:HA	2:B:52:THR:O	2.17	0.45
1:C:799:ASN:ND2	1:C:802:ARG:HH12	2.15	0.45
1:C:956:ARG:HA	1:C:959:ARG:CG	2.46	0.45
1:C:1653:ASN:ND2	1:C:1880:HIS:HB3	2.31	0.45
1:C:1848:ARG:O	1:C:1877:SER:HA	2.17	0.45
1:C:1967:HIS:HB3	1:C:1971:ARG:NH1	2.32	0.45
1:A:52:GLU:HA	1:A:1018:ARG:NE	2.32	0.45
1:A:541:TYR:HE1	1:A:770:GLU:HG3	1.82	0.45
1:A:656:PHE:CD2	1:A:681:PRO:HD3	2.51	0.45
1:A:1396:LEU:HD13	1:A:1399:ILE:HD12	1.98	0.45
1:A:1418:LYS:O	1:A:1421:LEU:HG	2.17	0.45
1:A:1701:GLU:HG3	1:A:1841:PHE:CD2	2.52	0.45
1:A:1884:TYR:CZ	1:A:1885:ILE:HG12	2.51	0.45
1:A:1931:GLN:HE21	1:A:1996:GLN:NE2	2.14	0.45
1:A:1936:GLY:HA3	2:B:37:PHE:CE1	2.52	0.45
1:A:1989:LYS:HD2	1:A:2000:HIS:HE2	1.82	0.45
1:C:143:ARG:HH22	1:C:147:LYS:HD3	1.80	0.45
1:C:694:LEU:HA	1:C:694:LEU:HD23	1.81	0.45
1:C:1608:ALA:C	1:C:1611:GLY:H	2.25	0.45
1:C:1999:TYR:HB2	2:D:70:LEU:O	2.17	0.45
1:A:297:TYR:HE2	1:A:592:LYS:HG2	1.81	0.45
1:A:1108:PHE:CE1	1:A:1112:LEU:HD21	2.52	0.45
1:A:1475:SER:O	1:A:1479:THR:HG23	2.17	0.45
1:A:1912:LYS:HE2	2:B:37:PHE:CE1	2.52	0.45
1:C:120:TRP:CZ3	1:C:839:ALA:HB2	2.52	0.45
1:C:128:GLN:HA	1:C:1052:GLU:HG2	1.98	0.45
1:C:261:ILE:N	1:C:327:PHE:O	2.37	0.45
1:C:805:PHE:HE2	1:C:927:ILE:HD11	1.82	0.45
1:C:1049:CYS:C	1:C:1051:HIS:N	2.74	0.45
2:D:3:THR:HA	2:D:52:THR:O	2.17	0.45
1:A:230:ALA:HB1	1:A:233:THR:HG21	1.99	0.45
1:A:271:GLU:CD	1:A:493:THR:HB	2.41	0.45
1:A:311:ALA:O	1:A:312:HIS:ND1	2.49	0.45
1:A:743:LEU:HD12	1:A:743:LEU:HA	1.83	0.45
1:A:805:PHE:CD1	1:A:915:GLN:HB2	2.51	0.45
1:A:812:VAL:HA	1:A:815:VAL:HG12	1.97	0.45
1:A:956:ARG:HA	1:A:959:ARG:CG	2.46	0.45
1:A:1049:CYS:C	1:A:1051:HIS:N	2.74	0.45
1:A:1789:PHE:HA	1:A:1792:GLU:OE2	2.17	0.45
1:A:1958:PRO:HB3	1:A:1967:HIS:ND1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:129:LEU:HD23	2:B:136:PRO:HD3	1.98	0.45
1:C:1701:GLU:HG3	1:C:1841:PHE:CD2	2.52	0.45
2:D:4:ILE:HB	2:D:53:LEU:HD23	1.99	0.45
2:D:129:LEU:HG	2:D:134:GLN:HB3	1.98	0.45
1:A:248:SER:H	1:A:826:ARG:NH2	2.15	0.45
1:A:547:TYR:C	1:A:548:ARG:HD3	2.42	0.45
1:A:1637:HIS:CB	1:A:1640:LEU:HG	2.47	0.45
1:A:1734:PHE:CE1	1:C:1723:LEU:HB3	2.51	0.45
2:B:20:LEU:HG	2:B:40:TYR:HD2	1.81	0.45
1:C:280:ILE:HD12	1:C:295:ASN:HB2	1.98	0.45
1:C:292:ILE:HB	1:C:535:PHE:O	2.17	0.45
1:C:510:CYS:HA	1:C:529:THR:HB	1.99	0.45
1:C:1418:LYS:O	1:C:1421:LEU:HG	2.17	0.45
1:C:1867:PRO:HA	1:C:1953:PHE:CZ	2.52	0.45
2:D:122:ASP:O	2:D:126:ILE:HG13	2.17	0.45
1:A:137:VAL:HG13	1:A:238:PRO:HG2	1.99	0.45
1:A:279:GLY:HA2	1:A:341:LYS:O	2.16	0.45
1:A:297:TYR:CE2	1:A:592:LYS:HG2	2.52	0.45
1:A:467:LEU:HD23	1:A:472:LEU:HD22	1.99	0.45
1:C:52:GLU:HA	1:C:1018:ARG:NE	2.32	0.45
1:C:297:TYR:HE2	1:C:592:LYS:HG2	1.81	0.45
1:C:297:TYR:CE2	1:C:592:LYS:HG2	2.52	0.45
1:C:541:TYR:HE1	1:C:770:GLU:HG3	1.82	0.45
1:C:770:GLU:O	1:C:773:VAL:HG12	2.16	0.45
1:C:776:SER:HA	1:C:779:VAL:HG22	1.98	0.45
1:C:835:TYR:HA	1:C:839:ALA:HB3	1.99	0.45
1:C:955:PRO:O	1:C:958:LEU:N	2.41	0.45
1:C:1765:ASP:OD1	1:C:1766:GLU:N	2.49	0.45
2:D:129:LEU:HD23	2:D:136:PRO:HD3	1.98	0.45
1:A:76:VAL:HG22	1:A:1060:PRO:HD2	1.99	0.44
1:A:115:MET:HE1	1:A:778:HIS:HA	1.98	0.44
1:A:142:GLN:HE21	1:A:233:THR:HA	1.82	0.44
1:A:770:GLU:O	1:A:773:VAL:HG12	2.16	0.44
1:A:1010:ARG:HB3	1:A:1014:PHE:CZ	2.51	0.44
1:A:1714:LEU:HD21	1:A:1719:ASP:O	2.17	0.44
1:A:1806:ASN:HA	1:A:1872:ARG:HH12	1.82	0.44
1:A:1985:LEU:HD12	1:A:2007:TYR:CD2	2.51	0.44
2:B:158:SER:HB3	2:B:163:LYS:N	2.23	0.44
1:C:719:PRO:HG3	1:C:725:ASP:HA	2.00	0.44
1:C:771:PRO:O	1:C:775:PHE:HD1	2.00	0.44
1:C:783:LEU:O	1:C:786:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1005:LEU:HD21	1:C:1013:VAL:HG11	2.00	0.44
1:C:1395:THR:O	1:C:1399:ILE:HG13	2.17	0.44
1:C:1637:HIS:CB	1:C:1640:LEU:HG	2.47	0.44
1:C:1714:LEU:HD21	1:C:1719:ASP:O	2.18	0.44
1:A:113:VAL:O	1:A:117:ILE:HG12	2.17	0.44
1:A:1554:LEU:O	1:A:1558:LEU:HG	2.17	0.44
1:A:1582:MET:HB3	1:A:1603:MET:HE3	2.00	0.44
1:A:1765:ASP:OD1	1:A:1766:GLU:N	2.49	0.44
1:A:1772:LYS:HB2	1:A:1887:THR:OG1	2.15	0.44
1:A:1802:ILE:HG12	1:A:1819:TYR:HB3	1.99	0.44
1:A:1865:GLU:HB2	1:A:1868:GLU:HG2	1.99	0.44
1:A:1867:PRO:HA	1:A:1953:PHE:CZ	2.52	0.44
2:B:11:ASP:OD1	2:B:11:ASP:N	2.48	0.44
1:C:113:VAL:O	1:C:117:ILE:HG12	2.17	0.44
1:C:285:ASP:HB2	1:C:336:ILE:HD13	1.97	0.44
1:C:337:PHE:HE1	1:C:400:HIS:NE2	2.16	0.44
1:C:1051:HIS:HE1	1:C:1053:HIS:HB2	1.82	0.44
1:C:1396:LEU:HD13	1:C:1399:ILE:HD12	1.98	0.44
1:C:1566:VAL:HA	1:C:1569:LYS:HZ3	1.81	0.44
1:C:1582:MET:HB3	1:C:1603:MET:HE3	2.00	0.44
1:C:1722:LYS:O	1:C:1726:VAL:HG23	2.16	0.44
1:C:1855:PRO:HD3	2:D:33:VAL:HG22	2.00	0.44
1:A:719:PRO:HG3	1:A:725:ASP:HA	1.99	0.44
1:A:915:GLN:HA	1:A:918:VAL:HG22	1.99	0.44
1:A:1163:GLU:HA	1:A:1166:LEU:HG	1.98	0.44
1:A:1727:HIS:CE1	1:C:1730:LEU:HD22	2.51	0.44
1:A:2011:ARG:O	1:A:2015:GLN:N	2.45	0.44
1:C:467:LEU:HD23	1:C:472:LEU:HD22	1.99	0.44
1:C:472:LEU:HA	1:C:475:PHE:CD2	2.40	0.44
1:C:577:MET:CE	1:C:584:GLN:HB2	2.46	0.44
1:C:1606:LYS:HA	1:C:1606:LYS:HD2	1.74	0.44
1:C:1934:LEU:HD12	1:C:1934:LEU:HA	1.83	0.44
1:A:280:ILE:HD12	1:A:295:ASN:HB2	1.98	0.44
1:A:835:TYR:HA	1:A:839:ALA:HB3	1.99	0.44
1:A:1051:HIS:HE1	1:A:1053:HIS:HB2	1.82	0.44
1:A:1395:THR:O	1:A:1399:ILE:HG13	2.17	0.44
2:B:92:ASN:HA	2:B:95:GLU:OE2	2.17	0.44
2:B:122:ASP:O	2:B:126:ILE:HG13	2.17	0.44
1:C:547:TYR:C	1:C:548:ARG:HD3	2.42	0.44
1:C:1116:GLU:HA	1:C:1119:LEU:CG	2.48	0.44
1:C:1178:ARG:HH21	1:C:1243:CYS:N	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:70:GLY:H	1:A:73:ARG:HD3	1.83	0.44
1:A:783:LEU:HD11	1:A:804:ALA:O	2.17	0.44
1:A:1005:LEU:HD21	1:A:1013:VAL:HG11	2.00	0.44
1:A:1064:LEU:HD23	1:A:1106:GLN:OE1	2.16	0.44
1:A:1677:HIS:C	1:A:1679:THR:H	2.24	0.44
1:A:1788:GLU:O	1:A:1789:PHE:C	2.57	0.44
1:A:1803:LYS:NZ	2:B:160:LEU:HD12	2.32	0.44
1:A:1866:LEU:HD23	1:A:1866:LEU:HA	1.83	0.44
1:A:1967:HIS:HB3	1:A:1971:ARG:NH1	2.32	0.44
1:C:142:GLN:O	1:C:146:GLN:N	2.50	0.44
1:C:1848:ARG:HD2	1:C:1848:ARG:HA	1.73	0.44
1:C:1854:THR:OG1	1:C:1872:ARG:HB2	2.18	0.44
2:D:92:ASN:HA	2:D:95:GLU:OE2	2.17	0.44
1:A:292:ILE:HB	1:A:535:PHE:O	2.17	0.44
1:A:1039:THR:HA	1:A:1042:MET:HG3	1.99	0.44
1:A:1142:LEU:HG	1:A:1146:HIS:CE1	2.53	0.44
1:A:1178:ARG:HH21	1:A:1243:CYS:N	2.16	0.44
2:B:4:ILE:HB	2:B:53:LEU:HD23	1.99	0.44
1:C:1558:LEU:O	1:C:1562:LEU:HG	2.18	0.44
1:C:1593:PRO:HB3	1:C:1660:ILE:HD11	1.99	0.44
2:D:11:ASP:N	2:D:11:ASP:OD1	2.48	0.44
1:A:142:GLN:NE2	1:A:233:THR:O	2.51	0.44
1:A:227:ARG:NH1	1:A:1390:LEU:HB3	2.30	0.44
1:A:645:ARG:O	1:A:648:THR:OG1	2.23	0.44
1:A:1740:GLN:HG2	1:A:1746:ARG:HD2	1.99	0.44
1:C:137:VAL:HG13	1:C:238:PRO:HG2	1.99	0.44
1:C:142:GLN:NE2	1:C:233:THR:O	2.51	0.44
1:C:230:ALA:HB1	1:C:233:THR:HG21	1.99	0.44
1:C:292:ILE:HG22	1:C:535:PHE:HD2	1.81	0.44
1:C:400:HIS:C	1:C:401:LEU:HD22	2.43	0.44
1:C:783:LEU:CD2	1:C:804:ALA:HB1	2.47	0.44
1:C:1034:PRO:O	1:C:1038:LEU:HD23	2.18	0.44
1:C:1144:CYS:HA	1:C:1147:ASP:OD2	2.18	0.44
1:C:1989:LYS:HD2	1:C:2000:HIS:HE2	1.82	0.44
1:A:805:PHE:HE2	1:A:927:ILE:HD11	1.82	0.44
1:A:1034:PRO:O	1:A:1038:LEU:HD23	2.17	0.44
1:A:1058:ASN:O	1:A:1107:HIS:ND1	2.46	0.44
1:A:1116:GLU:HA	1:A:1119:LEU:CG	2.48	0.44
1:A:1958:PRO:C	1:A:1964:PHE:HE1	2.26	0.44
2:B:135:LYS:N	2:B:135:LYS:HD2	2.33	0.44
1:C:460:PHE:HB3	1:C:489:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:783:LEU:HD11	1:C:804:ALA:O	2.17	0.44
1:C:915:GLN:HA	1:C:918:VAL:HG22	1.99	0.44
1:C:1630:TYR:HA	1:C:1633:LEU:HD12	1.99	0.44
1:C:1806:ASN:HA	1:C:1872:ARG:HH12	1.82	0.44
1:C:1958:PRO:C	1:C:1964:PHE:HE1	2.26	0.44
1:A:92:CYS:SG	1:A:94:THR:OG1	2.68	0.44
1:A:799:ASN:ND2	1:A:802:ARG:HH12	2.15	0.44
1:A:802:ARG:O	1:A:806:GLU:HG3	2.18	0.44
1:A:1574:ASP:OD2	1:A:1577:MET:HG2	2.18	0.44
1:A:1803:LYS:HE2	2:B:28:PHE:CG	2.53	0.44
1:C:76:VAL:HG22	1:C:1060:PRO:HD2	1.99	0.44
1:C:674:LEU:C	1:C:705:GLY:HA2	2.43	0.44
1:C:805:PHE:CD1	1:C:915:GLN:HB2	2.51	0.44
1:C:1677:HIS:C	1:C:1679:THR:H	2.24	0.44
1:C:1707:TYR:CD1	1:C:1730:LEU:HD12	2.52	0.44
1:A:337:PHE:HE1	1:A:400:HIS:NE2	2.16	0.43
1:A:907:LEU:HB3	1:A:909:HIS:CE1	2.53	0.43
1:A:1707:TYR:CD1	1:A:1730:LEU:HD12	2.52	0.43
2:B:82:PHE:CE2	2:B:84:VAL:HG12	2.53	0.43
1:C:142:GLN:HE21	1:C:233:THR:HA	1.82	0.43
1:C:826:ARG:HB3	1:C:828:HIS:CE1	2.52	0.43
1:C:907:LEU:HB3	1:C:909:HIS:CE1	2.53	0.43
1:C:1123:PRO:HA	1:C:1178:ARG:CZ	2.47	0.43
1:C:1496:GLY:C	1:C:1498:ASN:H	2.26	0.43
1:C:1554:LEU:O	1:C:1558:LEU:HG	2.17	0.43
1:C:1740:GLN:O	1:C:1742:SER:N	2.50	0.43
1:C:1753:ARG:HB3	1:C:1823:THR:OG1	2.18	0.43
1:C:1789:PHE:HA	1:C:1792:GLU:OE2	2.17	0.43
1:A:726:LYS:HB3	1:A:726:LYS:HE2	1.79	0.43
1:A:1448:PRO:O	1:A:1451:LEU:HB2	2.19	0.43
1:A:1608:ALA:C	1:A:1611:GLY:H	2.25	0.43
1:A:1740:GLN:O	1:A:1742:SER:N	2.51	0.43
1:A:1753:ARG:HB3	1:A:1823:THR:OG1	2.18	0.43
1:C:752:ASN:O	1:C:754:GLU:N	2.52	0.43
1:A:577:MET:CE	1:A:584:GLN:HB2	2.46	0.43
1:A:927:ILE:O	1:A:931:ALA:N	2.52	0.43
1:A:1055:VAL:HG23	1:A:1056:THR:N	2.33	0.43
1:A:1562:LEU:HD23	1:A:1562:LEU:HA	1.71	0.43
1:A:1579:ILE:HA	1:A:1582:MET:HE2	2.00	0.43
1:C:248:SER:H	1:C:826:ARG:NH2	2.15	0.43
1:C:597:GLU:C	1:C:598:PHE:HD1	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1109:LEU:HA	1:C:1112:LEU:HD12	1.99	0.43
1:C:1566:VAL:N	1:C:1569:LYS:HZ3	2.16	0.43
1:C:1865:GLU:HB2	1:C:1868:GLU:HG2	1.99	0.43
1:A:405:VAL:HA	1:A:449:PHE:CB	2.48	0.43
1:A:510:CYS:HA	1:A:529:THR:HB	1.99	0.43
1:A:656:PHE:CE2	1:A:680:GLN:HA	2.54	0.43
1:A:1144:CYS:HA	1:A:1147:ASP:OD2	2.18	0.43
1:A:1285:LEU:HA	1:A:1285:LEU:HD13	1.73	0.43
1:A:1806:ASN:CG	1:A:1872:ARG:HH12	2.26	0.43
1:C:334:PRO:HD3	1:C:444:CYS:N	2.34	0.43
1:C:802:ARG:O	1:C:806:GLU:HG3	2.18	0.43
1:C:1448:PRO:O	1:C:1451:LEU:HB2	2.19	0.43
1:C:1574:ASP:OD2	1:C:1577:MET:HG2	2.18	0.43
1:A:460:PHE:HB3	1:A:489:LEU:HD13	1.99	0.43
1:A:597:GLU:C	1:A:598:PHE:HD1	2.26	0.43
1:A:674:LEU:C	1:A:705:GLY:HA2	2.43	0.43
1:A:1593:PRO:HB3	1:A:1660:ILE:HD11	1.99	0.43
1:C:1504:MET:HB2	1:C:1508:MET:HE2	2.00	0.43
1:C:1800:GLU:OE1	1:C:1800:GLU:N	2.51	0.43
1:C:1802:ILE:HG12	1:C:1819:TYR:HB3	1.99	0.43
2:D:135:LYS:HD2	2:D:135:LYS:N	2.33	0.43
1:A:1561:ILE:O	1:A:1565:THR:HG23	2.19	0.43
1:A:1707:TYR:HD1	1:A:1730:LEU:HD12	1.83	0.43
1:A:1752:PHE:CE1	1:A:1824:TYR:HB2	2.54	0.43
1:A:1760:HIS:HB3	1:A:1794:PHE:CE2	2.54	0.43
1:C:656:PHE:CE2	1:C:680:GLN:HA	2.54	0.43
1:C:770:GLU:OE1	1:C:770:GLU:N	2.51	0.43
1:C:1154:GLU:OE2	1:C:1156:THR:HG23	2.19	0.43
1:C:1740:GLN:HG2	1:C:1746:ARG:HD2	1.99	0.43
1:C:1772:LYS:NZ	1:C:1882:PHE:CG	2.86	0.43
2:D:82:PHE:CE2	2:D:84:VAL:HG12	2.53	0.43
1:A:131:SER:O	1:A:135:SER:N	2.26	0.43
1:A:835:TYR:CD1	1:A:839:ALA:HB3	2.54	0.43
1:A:1009:ASP:O	1:A:1013:VAL:HG23	2.18	0.43
1:A:1854:THR:OG1	1:A:1872:ARG:NE	2.39	0.43
1:C:70:GLY:H	1:C:73:ARG:HD3	1.83	0.43
1:C:270:PHE:HB3	1:C:272:ILE:O	2.19	0.43
1:C:554:TYR:CE1	1:C:618:GLU:HB2	2.54	0.43
1:C:656:PHE:CE2	1:C:681:PRO:HD3	2.54	0.43
1:C:1009:ASP:O	1:C:1013:VAL:HG23	2.18	0.43
1:C:1768:GLU:O	1:C:1890:ARG:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1851:LEU:HA	1:C:1874:THR:O	2.19	0.43
1:A:400:HIS:C	1:A:401:LEU:HD22	2.43	0.43
1:A:783:LEU:O	1:A:786:LEU:HG	2.17	0.43
1:A:1779:LEU:H	2:B:26:ASN:HD21	1.67	0.43
1:A:1989:LYS:HD2	1:A:2000:HIS:NE2	2.34	0.43
2:B:16:LYS:NZ	2:B:58:THR:O	2.45	0.43
1:C:242:GLU:HG3	1:C:1134:LYS:HZ2	1.84	0.43
1:C:321:LEU:O	1:C:527:ARG:HG3	2.19	0.43
1:C:1039:THR:HA	1:C:1042:MET:HG3	1.99	0.43
1:A:47:LEU:HD12	1:A:47:LEU:HA	1.85	0.43
1:A:120:TRP:CZ3	1:A:839:ALA:HB2	2.52	0.43
1:A:656:PHE:CE2	1:A:681:PRO:HD3	2.54	0.43
1:A:771:PRO:O	1:A:775:PHE:HD1	2.00	0.43
1:A:1109:LEU:HA	1:A:1112:LEU:HD12	1.99	0.43
1:A:1442:ALA:O	1:A:1446:LYS:HG2	2.19	0.43
1:A:1630:TYR:HA	1:A:1633:LEU:HD12	1.99	0.43
1:A:1854:THR:OG1	1:A:1872:ARG:HB2	2.18	0.43
1:C:577:MET:HE2	1:C:580:GLU:N	2.34	0.43
1:C:656:PHE:HD2	1:C:679:ASP:O	2.02	0.43
1:C:656:PHE:C	1:C:657:THR:HG1	2.25	0.43
1:C:1300:LYS:O	1:C:1304:GLU:HG3	2.18	0.43
1:A:554:TYR:CE1	1:A:618:GLU:HB2	2.54	0.43
1:A:556:HIS:HB2	1:A:708:SER:HB3	2.01	0.43
1:A:1025:ALA:O	1:A:1028:LEU:HB3	2.19	0.43
1:A:1250:SER:O	1:A:1254:LEU:HD23	2.19	0.43
1:A:1300:LYS:O	1:A:1304:GLU:HG3	2.18	0.43
1:A:1496:GLY:C	1:A:1498:ASN:H	2.26	0.43
1:A:1558:LEU:O	1:A:1562:LEU:HG	2.18	0.43
1:A:1648:GLN:HE22	1:A:1655:LEU:HB2	1.84	0.43
1:A:1800:GLU:OE1	1:A:1800:GLU:N	2.52	0.43
1:C:554:TYR:HE1	1:C:618:GLU:HB2	1.83	0.43
1:C:572:VAL:HG22	1:C:637:PHE:CD1	2.54	0.43
1:C:1055:VAL:HG23	1:C:1056:THR:N	2.33	0.43
1:C:1154:GLU:OE2	1:C:1155:ALA:N	2.52	0.43
1:C:1561:ILE:O	1:C:1565:THR:HG23	2.19	0.43
1:C:1866:LEU:HD23	1:C:1866:LEU:HA	1.83	0.43
1:A:231:LEU:HB2	1:A:1262:LYS:NZ	2.30	0.42
1:A:783:LEU:CD2	1:A:804:ALA:HB1	2.47	0.42
1:A:1161:VAL:O	1:A:1164:LEU:HB2	2.19	0.42
1:C:405:VAL:HA	1:C:449:PHE:CB	2.49	0.42
1:C:470:GLU:HB2	1:C:474:LYS:NZ	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1142:LEU:HG	1:C:1146:HIS:CE1	2.53	0.42
1:C:1161:VAL:O	1:C:1164:LEU:HB2	2.19	0.42
1:C:1442:ALA:O	1:C:1446:LYS:HG2	2.19	0.42
1:C:1707:TYR:HD1	1:C:1730:LEU:HD12	1.83	0.42
2:D:140:GLU:HA	2:D:143:GLU:OE1	2.19	0.42
1:A:656:PHE:HD2	1:A:679:ASP:O	2.02	0.42
1:A:1039:THR:O	1:A:1043:GLU:OE1	2.36	0.42
1:A:1504:MET:HB2	1:A:1508:MET:HE2	2.00	0.42
2:B:140:GLU:HA	2:B:143:GLU:OE1	2.19	0.42
1:C:153:VAL:CG1	1:C:1430:ALA:H	2.32	0.42
1:C:555:PRO:HB3	1:C:707:PHE:CZ	2.55	0.42
1:C:917:VAL:O	1:C:924:ARG:NH2	2.50	0.42
1:C:1025:ALA:O	1:C:1028:LEU:HB3	2.19	0.42
1:C:1057:LEU:HD23	1:C:1057:LEU:HA	1.86	0.42
1:C:1121:LEU:HD23	1:C:1121:LEU:HA	1.84	0.42
1:C:1542:LEU:HB3	1:C:1545:SER:HB2	2.02	0.42
1:C:1752:PHE:CE1	1:C:1824:TYR:HB2	2.54	0.42
1:A:934:PHE:O	1:A:937:LEU:HB2	2.20	0.42
1:A:1045:THR:HG21	1:A:1116:GLU:OE1	2.19	0.42
1:A:1154:GLU:OE2	1:A:1156:THR:HG23	2.19	0.42
1:A:1771:TYR:CZ	1:A:1888:ARG:HD2	2.54	0.42
1:A:1784:HIS:O	1:A:1787:GLU:HB3	2.19	0.42
1:A:1985:LEU:HD11	1:A:2004:GLU:HA	2.01	0.42
2:B:4:ILE:HG23	2:B:76:ASP:HB2	2.01	0.42
2:B:174:LEU:O	2:B:177:LEU:HB3	2.19	0.42
1:C:331:TYR:OH	1:C:538:ARG:HB3	2.19	0.42
1:C:459:PHE:O	1:C:491:PRO:HA	2.19	0.42
1:C:570:LEU:HB2	1:C:613:PRO:CG	2.49	0.42
1:C:1039:THR:O	1:C:1043:GLU:OE1	2.36	0.42
1:C:1436:GLY:HA2	1:C:1439:THR:HG22	2.01	0.42
1:C:1985:LEU:HD11	1:C:2004:GLU:HA	2.01	0.42
1:C:1989:LYS:HD2	1:C:2000:HIS:NE2	2.34	0.42
2:D:5:LYS:HG3	2:D:56:PHE:CE2	2.51	0.42
1:A:86:LEU:HB3	1:A:122:ILE:HG22	2.01	0.42
1:A:153:VAL:O	1:A:1429:SER:OG	2.33	0.42
1:A:331:TYR:OH	1:A:538:ARG:HB3	2.19	0.42
1:A:658:TRP:O	1:A:690:PRO:HG3	2.19	0.42
1:A:752:ASN:O	1:A:754:GLU:N	2.51	0.42
1:A:1154:GLU:OE2	1:A:1155:ALA:N	2.52	0.42
1:A:1287:LEU:HD12	1:A:1287:LEU:HA	1.80	0.42
1:A:1436:GLY:HA2	1:A:1439:THR:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1720:TYR:O	1:A:1723:LEU:N	2.52	0.42
1:A:1734:PHE:HD1	1:C:1724:ALA:HB2	1.84	0.42
1:C:511:LEU:HD12	1:C:530:LYS:HE2	2.02	0.42
1:C:577:MET:HE2	1:C:580:GLU:C	2.44	0.42
1:C:934:PHE:O	1:C:937:LEU:HB2	2.20	0.42
1:C:1250:SER:O	1:C:1254:LEU:HD23	2.19	0.42
1:C:1626:LEU:O	1:C:1629:GLU:HB3	2.19	0.42
1:C:1749:GLY:HA2	1:C:1774:PRO:C	2.44	0.42
1:C:2015:GLN:N	1:C:2016:PRO:HD2	2.35	0.42
1:A:405:VAL:O	1:A:409:GLY:N	2.47	0.42
1:A:490:ARG:NH1	1:A:491:PRO:O	2.52	0.42
1:A:570:LEU:HB2	1:A:613:PRO:CG	2.49	0.42
1:A:572:VAL:HG22	1:A:637:PHE:CD1	2.54	0.42
1:A:1749:GLY:HA2	1:A:1774:PRO:C	2.44	0.42
1:A:1768:GLU:O	1:A:1890:ARG:HA	2.19	0.42
1:A:1851:LEU:HA	1:A:1874:THR:O	2.19	0.42
2:B:5:LYS:HG3	2:B:56:PHE:CE2	2.51	0.42
1:C:556:HIS:HB2	1:C:708:SER:HB3	2.01	0.42
1:C:1059:LEU:HD12	1:C:1059:LEU:HA	1.72	0.42
1:C:1161:VAL:O	1:C:1164:LEU:N	2.46	0.42
1:C:1421:LEU:HD12	1:C:1422:TYR:N	2.35	0.42
1:C:1448:PRO:O	1:C:1451:LEU:N	2.52	0.42
1:C:1784:HIS:O	1:C:1787:GLU:HB3	2.19	0.42
1:C:1901:PRO:HB2	1:C:1953:PHE:CZ	2.55	0.42
1:A:400:HIS:CE1	1:A:403:ASN:H	2.38	0.42
1:A:459:PHE:O	1:A:491:PRO:HA	2.20	0.42
1:A:470:GLU:HB2	1:A:474:LYS:NZ	2.34	0.42
1:A:577:MET:HE2	1:A:580:GLU:N	2.34	0.42
1:A:1041:ARG:O	1:A:1044:PHE:HB3	2.20	0.42
1:A:1052:GLU:C	1:A:1054:TYR:H	2.28	0.42
1:A:1626:LEU:O	1:A:1629:GLU:HB3	2.19	0.42
1:A:1967:HIS:HB3	1:A:1971:ARG:CZ	2.50	0.42
1:C:408:ALA:HB1	1:C:450:ARG:N	2.35	0.42
1:C:658:TRP:O	1:C:690:PRO:HG3	2.19	0.42
1:C:913:ALA:HB1	1:C:967:ASP:HB3	2.01	0.42
1:C:927:ILE:O	1:C:931:ALA:N	2.52	0.42
1:C:1475:SER:HA	1:C:1478:ARG:NH1	2.34	0.42
1:C:1752:PHE:HD1	1:C:1824:TYR:HA	1.84	0.42
1:C:1760:HIS:HB3	1:C:1794:PHE:CE2	2.54	0.42
1:C:1771:TYR:CZ	1:C:1888:ARG:HD2	2.54	0.42
1:C:1856:PHE:N	1:C:1869:GLN:HE21	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1962:LYS:H	1:C:1962:LYS:HG3	1.65	0.42
2:D:174:LEU:O	2:D:177:LEU:HB3	2.19	0.42
1:A:555:PRO:HG2	1:A:619:PHE:CE2	2.55	0.42
1:A:577:MET:HE2	1:A:580:GLU:C	2.44	0.42
1:A:625:ALA:O	1:A:627:VAL:HG23	2.19	0.42
1:A:1448:PRO:O	1:A:1451:LEU:N	2.52	0.42
1:A:1856:PHE:N	1:A:1869:GLN:HE21	2.17	0.42
1:A:1901:PRO:HB2	1:A:1953:PHE:CZ	2.55	0.42
1:C:294:GLU:HB2	1:C:532:ILE:HG23	2.02	0.42
1:C:461:LYS:HZ2	1:C:489:LEU:HA	1.83	0.42
1:C:935:PHE:O	1:C:939:VAL:HG13	2.20	0.42
1:C:1041:ARG:O	1:C:1044:PHE:HB3	2.20	0.42
1:C:1827:PRO:HG3	1:C:1850:PHE:CE1	2.55	0.42
2:D:158:SER:O	2:D:162:GLN:HA	2.20	0.42
1:A:153:VAL:CG1	1:A:1430:ALA:H	2.32	0.42
1:A:534:GLU:HG2	1:A:535:PHE:N	2.34	0.42
1:A:935:PHE:O	1:A:939:VAL:HG13	2.20	0.42
1:A:1784:HIS:O	1:A:1785:ARG:C	2.63	0.42
1:C:75:LEU:HD21	1:C:1060:PRO:HB2	2.02	0.42
1:C:1504:MET:O	1:C:1507:THR:OG1	2.35	0.42
1:C:1579:ILE:HA	1:C:1582:MET:HE2	2.00	0.42
1:C:1691:ALA:O	1:C:1695:THR:OG1	2.35	0.42
1:A:126:ARG:HD2	1:A:127:TYR:CZ	2.55	0.42
1:A:294:GLU:HB2	1:A:532:ILE:HG23	2.01	0.42
1:A:321:LEU:O	1:A:527:ARG:HG3	2.19	0.42
1:A:334:PRO:HD3	1:A:444:CYS:N	2.34	0.42
1:A:641:SER:HB2	1:A:650:LEU:HA	2.02	0.42
1:A:826:ARG:HB3	1:A:828:HIS:ND1	2.35	0.42
1:A:1128:ALA:HB1	1:A:1131:LEU:HB2	2.02	0.42
1:A:1382:GLY:O	1:A:1386:THR:HG22	2.20	0.42
1:A:1645:VAL:C	1:A:1647:PHE:H	2.28	0.42
1:A:1907:GLU:O	1:A:1911:LYS:HG3	2.20	0.42
2:B:117:ILE:H	2:B:117:ILE:HD12	1.84	0.42
1:C:555:PRO:HG2	1:C:619:PHE:CE2	2.55	0.42
1:C:599:THR:HG22	1:C:600:ARG:N	2.28	0.42
1:C:625:ALA:O	1:C:627:VAL:HG23	2.19	0.42
1:C:1561:ILE:HA	1:C:1564:ASP:OD2	2.20	0.42
1:C:1653:ASN:HD21	1:C:1881:ALA:N	2.03	0.42
1:C:1854:THR:HG1	1:C:1872:ARG:HB2	1.85	0.42
1:C:1884:TYR:CG	1:C:1885:ILE:N	2.88	0.42
1:A:270:PHE:HB3	1:A:272:ILE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:396:TRP:CH2	1:A:475:PHE:HB3	2.55	0.42
1:A:1437:LEU:HA	1:A:1437:LEU:HD23	1.85	0.42
1:A:1475:SER:HA	1:A:1478:ARG:NH1	2.34	0.42
1:A:1605:GLY:O	1:A:1609:GLU:HG3	2.20	0.42
1:A:1884:TYR:CG	1:A:1885:ILE:N	2.88	0.42
2:B:1:MET:SD	2:B:2:GLN:HB2	2.60	0.42
1:C:70:GLY:HA3	1:C:71:PRO:HD3	1.90	0.42
1:C:156:GLN:OE1	1:C:1301:LYS:HD2	2.20	0.42
1:C:490:ARG:NH1	1:C:491:PRO:O	2.52	0.42
1:C:998:ALA:HB2	1:C:1044:PHE:CD1	2.55	0.42
1:C:1784:HIS:O	1:C:1785:ARG:C	2.63	0.42
2:D:117:ILE:HD12	2:D:117:ILE:H	1.84	0.42
1:A:554:TYR:HE1	1:A:618:GLU:HB2	1.84	0.41
1:A:965:LEU:HD23	1:A:968:ILE:HD12	2.02	0.41
1:A:998:ALA:HB2	1:A:1044:PHE:CD1	2.55	0.41
1:A:1449:GLU:OE1	1:A:1449:GLU:N	2.47	0.41
1:A:1729:LYS:O	1:A:1732:GLU:HG3	2.19	0.41
1:A:1837:ARG:HD3	1:A:1842:ASP:O	2.20	0.41
2:B:158:SER:O	2:B:162:GLN:HA	2.20	0.41
1:C:86:LEU:HB3	1:C:122:ILE:HG22	2.01	0.41
1:C:312:HIS:HD2	1:C:388:GLY:H	1.68	0.41
1:C:1045:THR:HG21	1:C:1116:GLU:OE1	2.19	0.41
1:C:1128:ALA:HB1	1:C:1131:LEU:HB2	2.02	0.41
1:C:1648:GLN:HE22	1:C:1655:LEU:HB2	1.84	0.41
1:A:129:TYR:HA	1:A:134:TYR:HB3	2.02	0.41
1:A:276:PRO:HA	1:A:305:MET:SD	2.60	0.41
1:A:640:VAL:HA	1:A:650:LEU:O	2.20	0.41
2:B:86:SER:O	2:B:89:SER:OG	2.26	0.41
1:C:126:ARG:HD2	1:C:127:TYR:CZ	2.55	0.41
1:C:835:TYR:CD1	1:C:839:ALA:HB3	2.54	0.41
1:C:836:VAL:HA	1:C:840:PHE:HB3	2.02	0.41
1:C:1462:LEU:O	1:C:1466:LEU:HD13	2.21	0.41
1:C:1605:GLY:O	1:C:1609:GLU:HG3	2.20	0.41
1:C:1720:TYR:O	1:C:1723:LEU:N	2.53	0.41
1:C:1729:LYS:O	1:C:1732:GLU:HG3	2.19	0.41
1:A:156:GLN:OE1	1:A:1301:LYS:HD2	2.20	0.41
1:A:511:LEU:HD12	1:A:530:LYS:HE2	2.02	0.41
1:A:555:PRO:HB3	1:A:707:PHE:CZ	2.54	0.41
1:A:913:ALA:HB1	1:A:967:ASP:HB3	2.01	0.41
1:A:1128:ALA:O	1:A:1131:LEU:HB2	2.21	0.41
1:A:1542:LEU:HB3	1:A:1545:SER:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1566:VAL:CA	1:A:1569:LYS:HZ3	2.34	0.41
1:A:1671:GLY:HA2	1:A:1674:SER:OG	2.20	0.41
1:A:1737:ILE:C	1:A:1740:GLN:HE21	2.28	0.41
1:C:641:SER:HB2	1:C:650:LEU:HA	2.02	0.41
1:C:1615:GLU:CD	1:C:1615:GLU:N	2.78	0.41
1:C:1806:ASN:CG	1:C:1872:ARG:HH12	2.26	0.41
1:C:1907:GLU:O	1:C:1911:LYS:HG3	2.20	0.41
1:A:242:GLU:HG3	1:A:1134:LYS:HZ2	1.85	0.41
1:A:1005:LEU:C	1:A:1007:LEU:H	2.28	0.41
1:A:1022:LYS:HE2	1:A:1022:LYS:HB2	1.94	0.41
1:A:1499:PHE:O	1:A:1501:ARG:N	2.54	0.41
1:A:1772:LYS:NZ	1:A:1882:PHE:CG	2.86	0.41
1:A:1827:PRO:HG3	1:A:1850:PHE:CE1	2.55	0.41
2:B:84:VAL:HG21	2:B:120:ARG:HB2	2.03	0.41
2:B:131:LYS:HA	2:B:131:LYS:HD2	1.83	0.41
1:C:276:PRO:HA	1:C:305:MET:SD	2.60	0.41
1:C:710:GLU:HG3	1:C:712:THR:HG23	2.03	0.41
1:C:1052:GLU:C	1:C:1054:TYR:H	2.28	0.41
1:C:1370:THR:O	1:C:1374:MET:HG2	2.21	0.41
1:C:1837:ARG:HD3	1:C:1842:ASP:O	2.20	0.41
1:C:1912:LYS:HD2	1:C:1912:LYS:HA	1.59	0.41
1:C:1932:MET:HE3	2:D:39:ASN:HB3	2.02	0.41
1:A:281:LEU:CD1	1:A:340:ILE:HG12	2.50	0.41
1:A:836:VAL:HA	1:A:840:PHE:HB2	2.03	0.41
1:A:1049:CYS:C	1:A:1051:HIS:H	2.28	0.41
1:A:1452:PHE:HB2	1:A:1453:GLU:OE2	2.20	0.41
1:A:1857:THR:HG21	1:A:1864:GLY:HA3	2.01	0.41
1:A:1958:PRO:HB2	1:A:1964:PHE:CE1	2.56	0.41
1:A:2015:GLN:N	1:A:2016:PRO:HD2	2.35	0.41
2:B:150:LYS:HD3	2:B:150:LYS:HA	1.91	0.41
1:C:316:PRO:HA	1:C:595:CYS:O	2.21	0.41
1:C:400:HIS:CE1	1:C:403:ASN:H	2.38	0.41
1:C:704:LYS:HE3	1:C:704:LYS:HA	2.03	0.41
1:C:1645:VAL:C	1:C:1647:PHE:H	2.28	0.41
1:C:1671:GLY:HA2	1:C:1674:SER:OG	2.20	0.41
1:A:75:LEU:HD21	1:A:1060:PRO:HB2	2.02	0.41
1:A:268:LEU:HD13	1:A:496:LEU:HD13	2.03	0.41
1:A:1568:MET:O	1:A:1572:GLN:HG3	2.21	0.41
1:A:1669:GLU:HB3	1:A:1672:PHE:CE2	2.56	0.41
1:A:1791:THR:CG2	1:A:1796:ASP:HA	2.49	0.41
1:C:129:TYR:HA	1:C:134:TYR:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:472:LEU:O	1:C:476:LEU:HG	2.21	0.41
1:C:743:LEU:HA	1:C:743:LEU:HD12	1.83	0.41
1:C:1370:THR:O	1:C:1373:GLU:HB3	2.21	0.41
1:C:1620:MET:CE	1:C:1690:ALA:HB2	2.43	0.41
1:C:1962:LYS:O	1:C:1965:ARG:NH2	2.53	0.41
1:A:81:ASP:OD1	1:A:81:ASP:N	2.43	0.41
1:A:486:LEU:O	1:A:489:LEU:HB2	2.20	0.41
1:A:573:ARG:HD2	1:A:574:VAL:N	2.36	0.41
1:A:710:GLU:HG3	1:A:712:THR:HG23	2.03	0.41
1:A:711:LEU:HD13	1:A:711:LEU:HA	1.97	0.41
1:A:1059:LEU:HA	1:A:1059:LEU:HD12	1.72	0.41
1:A:1396:LEU:HA	1:A:1396:LEU:HD13	1.83	0.41
1:A:1934:LEU:HD12	1:A:1934:LEU:HA	1.82	0.41
1:A:1962:LYS:O	1:A:1965:ARG:NH2	2.53	0.41
1:C:632:HIS:O	1:C:633:LEU:HD22	2.21	0.41
1:C:1285:LEU:HA	1:C:1285:LEU:HD13	1.73	0.41
1:C:1374:MET:HA	1:C:1377:GLU:HB3	2.03	0.41
1:C:1499:PHE:O	1:C:1501:ARG:N	2.54	0.41
1:C:1985:LEU:CD1	1:C:2004:GLU:HA	2.51	0.41
1:A:268:LEU:HB2	1:A:496:LEU:HD13	2.03	0.41
1:A:632:HIS:O	1:A:633:LEU:HD22	2.21	0.41
1:A:1545:SER:C	1:A:1547:PHE:H	2.29	0.41
1:A:1768:GLU:N	1:A:1768:GLU:OE1	2.54	0.41
1:A:1779:LEU:HD13	2:B:26:ASN:ND2	2.35	0.41
1:A:1900:THR:O	1:A:1903:GLU:HG2	2.21	0.41
1:C:573:ARG:HD2	1:C:574:VAL:N	2.36	0.41
1:C:1008:VAL:HG12	1:C:1009:ASP:OD1	2.20	0.41
1:C:1049:CYS:C	1:C:1051:HIS:H	2.28	0.41
1:C:1566:VAL:HA	1:C:1569:LYS:CD	2.46	0.41
1:C:1967:HIS:HB3	1:C:1971:ARG:CZ	2.50	0.41
1:A:312:HIS:HD2	1:A:388:GLY:H	1.68	0.41
1:A:408:ALA:HB1	1:A:450:ARG:N	2.35	0.41
1:A:704:LYS:HA	1:A:704:LYS:HE3	2.03	0.41
1:A:842:LEU:HB2	1:A:944:LEU:HD13	2.03	0.41
1:A:954:THR:HG23	1:A:959:ARG:CD	2.51	0.41
1:A:1008:VAL:HG12	1:A:1009:ASP:OD1	2.20	0.41
1:A:1058:ASN:ND2	1:A:1110:ALA:H	2.19	0.41
1:A:1486:TYR:HB2	1:A:1532:ILE:HG23	2.03	0.41
1:A:1501:ARG:O	1:A:1504:MET:HG2	2.21	0.41
1:A:1620:MET:O	1:A:1623:ALA:HB3	2.21	0.41
1:A:1631:LEU:HA	1:A:1631:LEU:HD12	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1634:LEU:HD23	1:A:1634:LEU:HA	1.93	0.41
1:A:1680:GLU:HG3	1:A:1681:LEU:HD22	2.02	0.41
1:A:1802:ILE:HD11	1:A:1819:TYR:CD2	2.56	0.41
1:A:1902:VAL:O	1:A:1906:ILE:HG13	2.21	0.41
1:A:1912:LYS:HA	1:A:1912:LYS:HD2	1.59	0.41
1:A:1942:VAL:HG11	2:B:17:THR:OG1	2.21	0.41
1:A:1985:LEU:CD1	1:A:2004:GLU:HA	2.51	0.41
2:B:120:ARG:HD2	2:B:120:ARG:HA	1.82	0.41
1:C:84:GLU:OE1	1:C:126:ARG:HB2	2.21	0.41
1:C:286:VAL:HG12	1:C:473:PHE:HD1	1.86	0.41
1:C:386:ARG:NH1	1:C:644:PRO:HA	2.36	0.41
1:C:728:PHE:O	1:C:732:HIS:CD2	2.74	0.41
1:C:965:LEU:HD23	1:C:968:ILE:HD12	2.02	0.41
1:C:1005:LEU:CD2	1:C:1013:VAL:HG11	2.51	0.41
1:C:1122:GLU:HA	1:C:1123:PRO:HD3	1.91	0.41
1:C:1128:ALA:O	1:C:1131:LEU:HB2	2.21	0.41
1:C:1382:GLY:O	1:C:1386:THR:HG22	2.20	0.41
1:C:1452:PHE:HB2	1:C:1453:GLU:OE2	2.20	0.41
1:C:1486:TYR:HB2	1:C:1532:ILE:HG23	2.03	0.41
1:C:1545:SER:C	1:C:1547:PHE:H	2.29	0.41
1:C:1562:LEU:HA	1:C:1562:LEU:HD23	1.71	0.41
1:C:1615:GLU:HB3	1:C:1885:ILE:O	2.21	0.41
1:C:1828:TYR:HB2	1:C:1851:LEU:HB2	2.03	0.41
1:C:1845:TYR:HA	1:C:1883:PRO:HD3	2.03	0.41
2:D:4:ILE:HG23	2:D:76:ASP:HB2	2.01	0.41
1:A:760:SER:O	1:A:764:LEU:HG	2.21	0.41
1:A:1009:ASP:CG	1:A:1012:PHE:HB3	2.46	0.41
1:A:1462:LEU:O	1:A:1466:LEU:HD13	2.21	0.41
1:A:1561:ILE:HA	1:A:1564:ASP:OD2	2.20	0.41
1:A:1828:TYR:HB2	1:A:1851:LEU:HB2	2.03	0.41
2:B:9:VAL:CG2	2:B:80:VAL:HG12	2.51	0.41
1:C:92:CYS:SG	1:C:94:THR:OG1	2.68	0.41
1:C:534:GLU:HG2	1:C:535:PHE:N	2.34	0.41
1:C:639:HIS:H	1:C:652:THR:H	1.69	0.41
1:C:1005:LEU:C	1:C:1007:LEU:H	2.28	0.41
1:C:1396:LEU:HA	1:C:1396:LEU:HD13	1.82	0.41
1:C:1437:LEU:HA	1:C:1437:LEU:HD23	1.85	0.41
1:C:1669:GLU:HB3	1:C:1672:PHE:CE2	2.56	0.41
1:C:1958:PRO:HB2	1:C:1964:PHE:CE1	2.56	0.41
1:A:548:ARG:N	1:A:716:SER:OG	2.47	0.40
1:A:633:LEU:HD23	1:A:661:LEU:HD21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:HIS:H	1:A:652:THR:H	1.69	0.40
1:A:1370:THR:O	1:A:1374:MET:HG2	2.21	0.40
1:A:1516:THR:O	1:A:1518:GLN:NE2	2.54	0.40
1:A:1699:LEU:HD13	1:A:1699:LEU:HA	1.90	0.40
1:A:1751:TYR:HE1	1:A:1772:LYS:HZ1	1.65	0.40
1:A:1764:LEU:HA	1:A:1767:GLN:OE1	2.21	0.40
1:C:640:VAL:HA	1:C:650:LEU:O	2.21	0.40
1:C:1410:GLU:H	1:C:1410:GLU:CD	2.28	0.40
1:C:1662:ASP:HA	1:C:1665:LEU:HD12	2.03	0.40
1:C:1900:THR:O	1:C:1903:GLU:HG2	2.21	0.40
2:D:92:ASN:ND2	2:D:96:LYS:HE2	2.37	0.40
2:D:121:ASP:HA	2:D:126:ILE:HD11	2.03	0.40
1:A:286:VAL:HG12	1:A:473:PHE:HD1	1.86	0.40
1:A:728:PHE:O	1:A:732:HIS:CD2	2.74	0.40
1:A:1151:ARG:HG3	1:A:1152:TYR:CE1	2.57	0.40
1:A:1501:ARG:C	1:A:1505:GLN:NE2	2.79	0.40
1:A:1552:GLN:O	1:A:1555:MET:HG3	2.21	0.40
1:A:1684:VAL:O	1:A:1688:GLU:HG3	2.21	0.40
1:C:396:TRP:CH2	1:C:475:PHE:HB3	2.55	0.40
1:C:842:LEU:HB2	1:C:944:LEU:HD13	2.03	0.40
1:C:1064:LEU:HD12	1:C:1096:MET:SD	2.61	0.40
1:C:1501:ARG:O	1:C:1504:MET:HG2	2.21	0.40
1:C:1680:GLU:HG3	1:C:1681:LEU:HD22	2.02	0.40
2:D:1:MET:SD	2:D:2:GLN:HB2	2.60	0.40
1:A:544:HIS:N	1:A:777:HIS:CE1	2.89	0.40
1:A:1374:MET:HA	1:A:1377:GLU:HB3	2.03	0.40
1:A:1529:LEU:HG	1:A:1529:LEU:H	1.77	0.40
1:A:1615:GLU:HB3	1:A:1885:ILE:O	2.21	0.40
1:A:1704:ASN:OD1	1:A:1708:LYS:HE2	2.21	0.40
1:A:1845:TYR:HA	1:A:1883:PRO:HD3	2.03	0.40
1:A:2005:ARG:NE	1:A:2006:ASN:OD1	2.53	0.40
2:B:80:VAL:CG2	2:B:112:LEU:HD23	2.50	0.40
2:B:85:VAL:O	2:B:87:PRO:HD3	2.21	0.40
2:B:94:LYS:HG2	2:B:145:LEU:HD11	2.03	0.40
2:B:144:LYS:HD2	2:B:147:ARG:HH21	1.86	0.40
1:C:230:ALA:HB1	1:C:233:THR:CG2	2.51	0.40
1:C:623:LEU:HD21	1:C:627:VAL:HG21	2.03	0.40
1:C:760:SER:O	1:C:764:LEU:HG	2.21	0.40
1:C:826:ARG:HB3	1:C:828:HIS:ND1	2.35	0.40
1:C:1151:ARG:HG3	1:C:1152:TYR:CE1	2.57	0.40
1:C:1508:MET:HE3	1:C:1676:LYS:HZ3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1847:LEU:N	1:C:1882:PHE:O	2.44	0.40
1:C:1857:THR:HG21	1:C:1864:GLY:HA3	2.01	0.40
2:D:94:LYS:HG2	2:D:145:LEU:HD11	2.03	0.40
2:D:110:PHE:O	2:D:151:ALA:HB1	2.21	0.40
1:A:472:LEU:HA	1:A:475:PHE:CD2	2.40	0.40
1:A:587:PRO:HA	1:A:600:ARG:HH21	1.87	0.40
1:A:610:ASN:O	1:A:613:PRO:HD3	2.22	0.40
1:A:663:GLN:NE2	1:A:668:ARG:HD3	2.37	0.40
1:A:1064:LEU:HD12	1:A:1096:MET:SD	2.61	0.40
1:A:1257:VAL:O	1:A:1260:VAL:HB	2.22	0.40
1:A:1370:THR:O	1:A:1373:GLU:HB3	2.21	0.40
1:A:1662:ASP:HA	1:A:1665:LEU:HD12	2.03	0.40
1:C:281:LEU:CD1	1:C:340:ILE:HG12	2.50	0.40
1:C:486:LEU:O	1:C:489:LEU:HB2	2.20	0.40
1:C:726:LYS:HE2	1:C:726:LYS:HB3	1.79	0.40
1:C:824:ASP:OD1	1:C:827:GLY:N	2.55	0.40
1:C:1288:LEU:O	1:C:1291:CYS:HB2	2.22	0.40
1:C:1552:GLN:O	1:C:1555:MET:HG3	2.21	0.40
1:C:1684:VAL:O	1:C:1688:GLU:HG3	2.21	0.40
1:C:2003:LEU:HA	1:C:2006:ASN:HD22	1.86	0.40
1:A:209:ARG:HA	1:A:209:ARG:CZ	2.52	0.40
1:A:230:ALA:HB1	1:A:233:THR:CG2	2.51	0.40
1:A:964:PHE:O	1:A:968:ILE:HG13	2.21	0.40
1:A:1392:VAL:O	1:A:1396:LEU:HD23	2.22	0.40
1:A:1421:LEU:HD12	1:A:1422:TYR:N	2.35	0.40
1:A:1848:ARG:HD2	1:A:1848:ARG:HA	1.73	0.40
1:A:2003:LEU:HA	1:A:2006:ASN:HD22	1.86	0.40
1:C:260:ARG:HA	1:C:327:PHE:O	2.22	0.40
1:C:663:GLN:NE2	1:C:668:ARG:HD3	2.37	0.40
1:C:780:LEU:HD21	1:C:811:VAL:HG11	2.04	0.40
1:C:836:VAL:HA	1:C:840:PHE:HB2	2.03	0.40
1:C:1857:THR:OG1	1:C:1861:ARG:O	2.40	0.40
2:D:84:VAL:HG21	2:D:120:ARG:HB2	2.03	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	A	1672/2053 (81%)	1492 (89%)	180 (11%)	0	100	100
1	C	1672/2053 (81%)	1493 (89%)	179 (11%)	0	100	100
2	B	176/195 (90%)	162 (92%)	14 (8%)	0	100	100
2	D	176/195 (90%)	162 (92%)	14 (8%)	0	100	100
All	All	3696/4496 (82%)	3309 (90%)	387 (10%)	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	A	1476/1773 (83%)	1476 (100%)	0	100	100
1	C	1476/1773 (83%)	1476 (100%)	0	100	100
2	B	158/172 (92%)	158 (100%)	0	100	100
2	D	158/172 (92%)	158 (100%)	0	100	100
All	All	3268/3890 (84%)	3268 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (30) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	575	GLN
1	A	663	GLN
1	A	732	HIS
1	A	799	ASN
1	A	915	GLN
1	A	1029	GLN
1	A	1051	HIS
1	A	1105	GLN
1	A	1440	GLN
1	A	1550	GLN
1	A	1639	HIS
1	A	1653	ASN
1	A	1968	ASN
1	A	1996	GLN
1	C	575	GLN
1	C	663	GLN
1	C	732	HIS
1	C	799	ASN
1	C	915	GLN
1	C	1029	GLN
1	C	1051	HIS
1	C	1105	GLN
1	C	1440	GLN
1	C	1505	GLN
1	C	1550	GLN
1	C	1639	HIS
1	C	1653	ASN
1	C	1968	ASN
1	C	1996	GLN
2	D	26	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

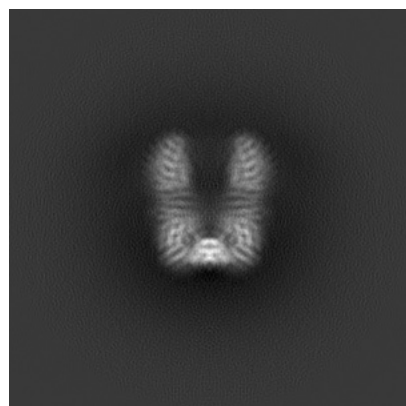
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-65175. These allow visual inspection of the internal detail of the map and identification of artifacts.

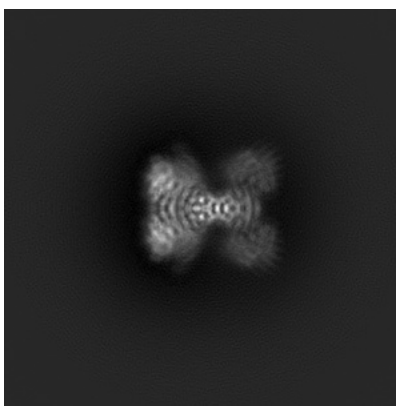
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

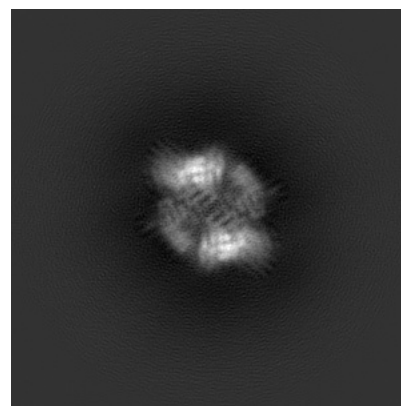
6.1.1 Primary map



X

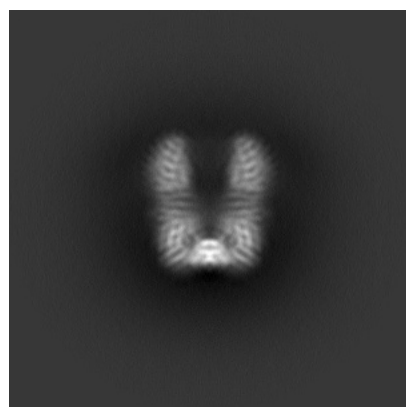


Y

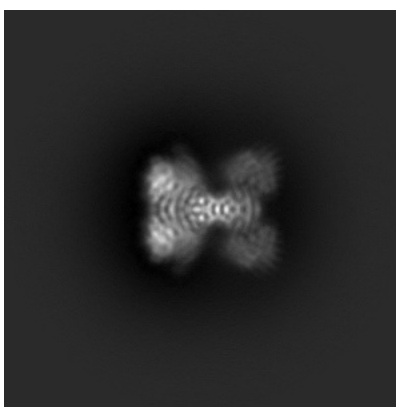


Z

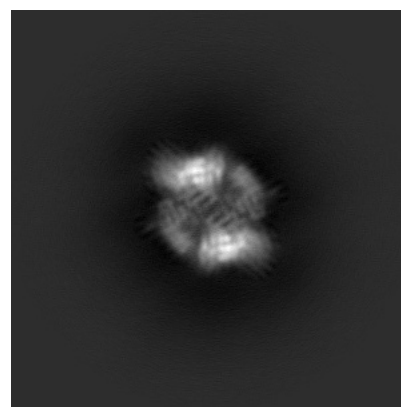
6.1.2 Raw map



X



Y

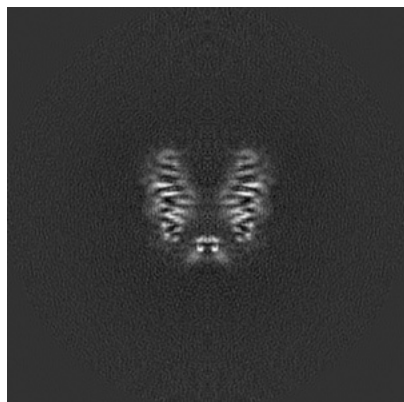


Z

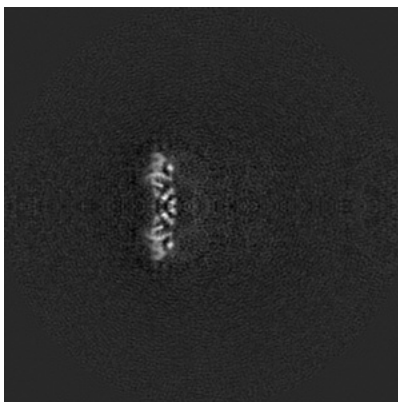
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

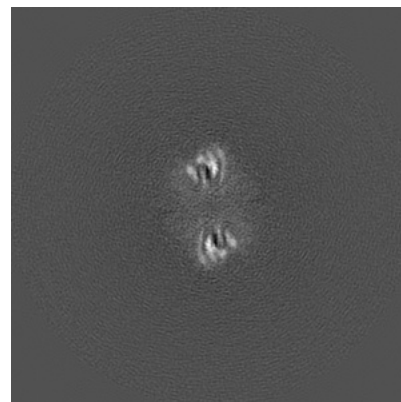
6.2.1 Primary map



X Index: 170

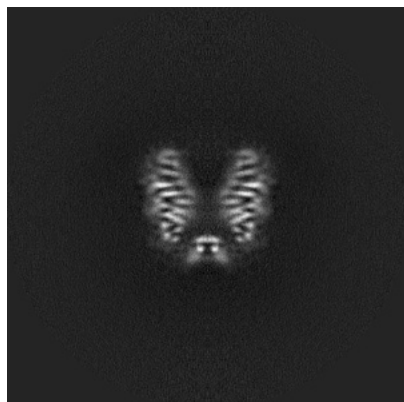


Y Index: 170

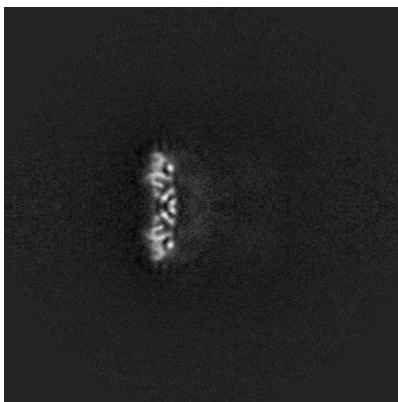


Z Index: 170

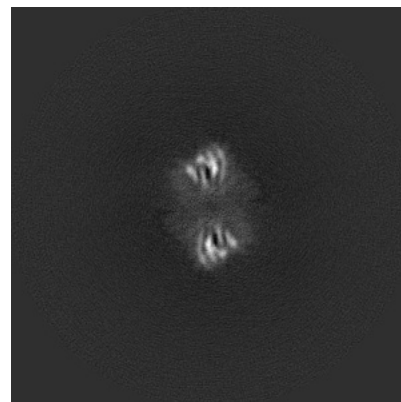
6.2.2 Raw map



X Index: 170



Y Index: 170

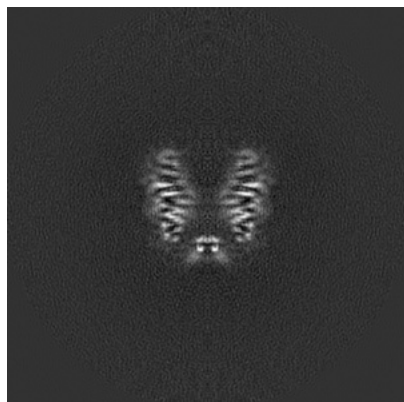


Z Index: 170

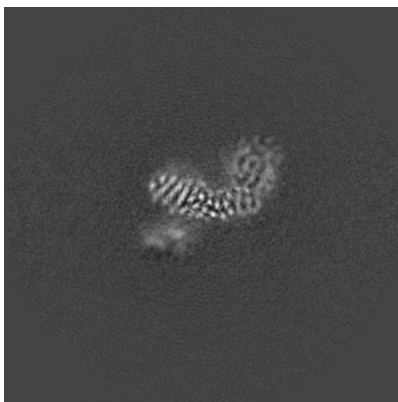
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

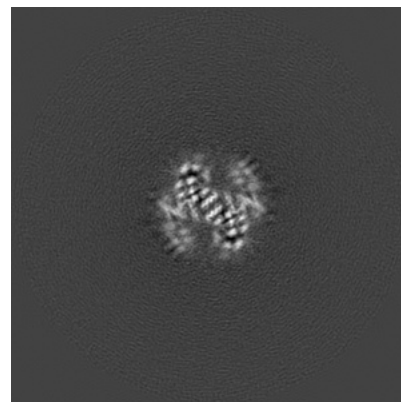
6.3.1 Primary map



X Index: 170

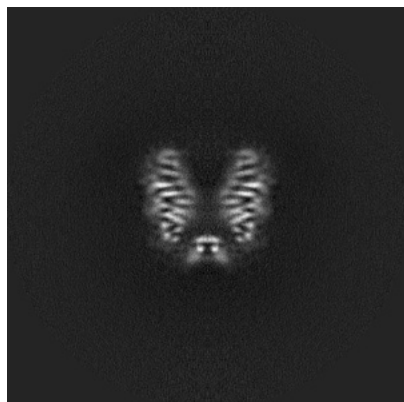


Y Index: 138

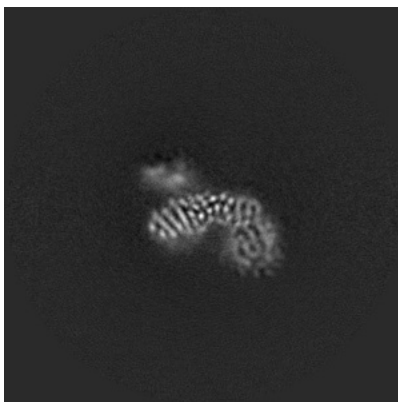


Z Index: 134

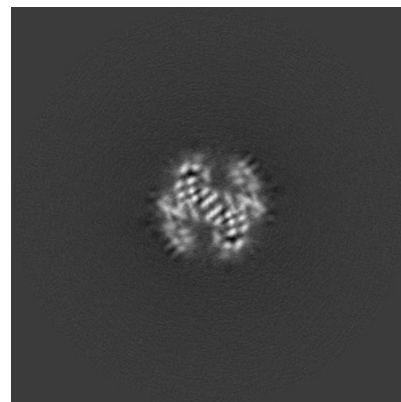
6.3.2 Raw map



X Index: 170



Y Index: 202

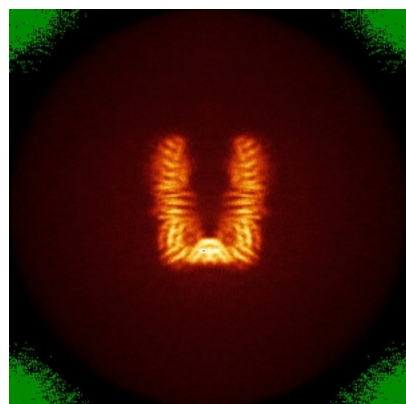


Z Index: 134

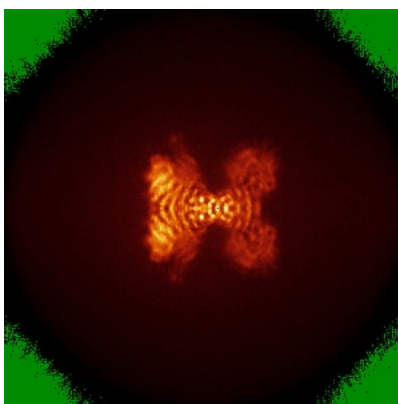
The images above show the largest variance slices of the map in three orthogonal directions.

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

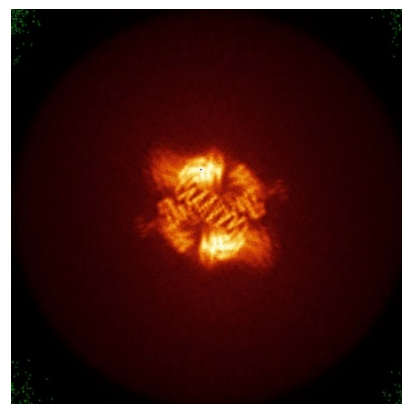
6.4.1 Primary map



X



Y

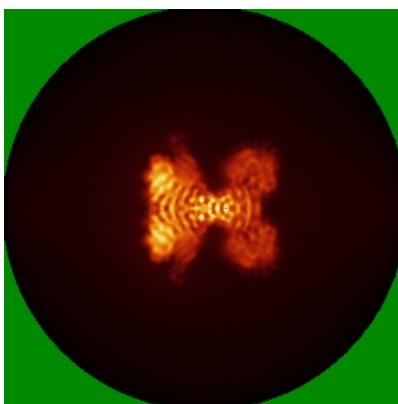


Z

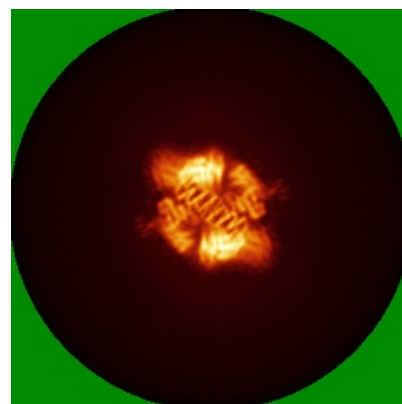
6.4.2 Raw map



X



Y



Z

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.

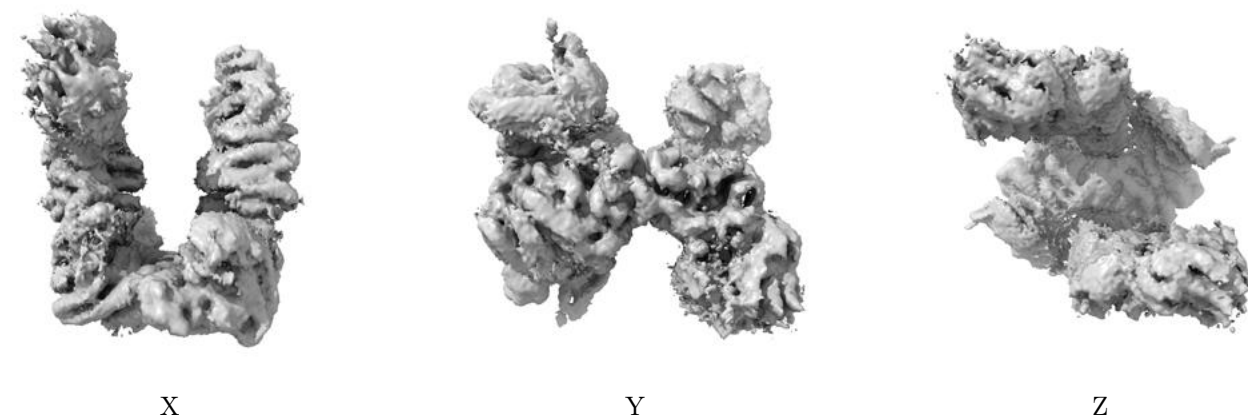
6.5 Orthogonal surface views [i](#)

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.

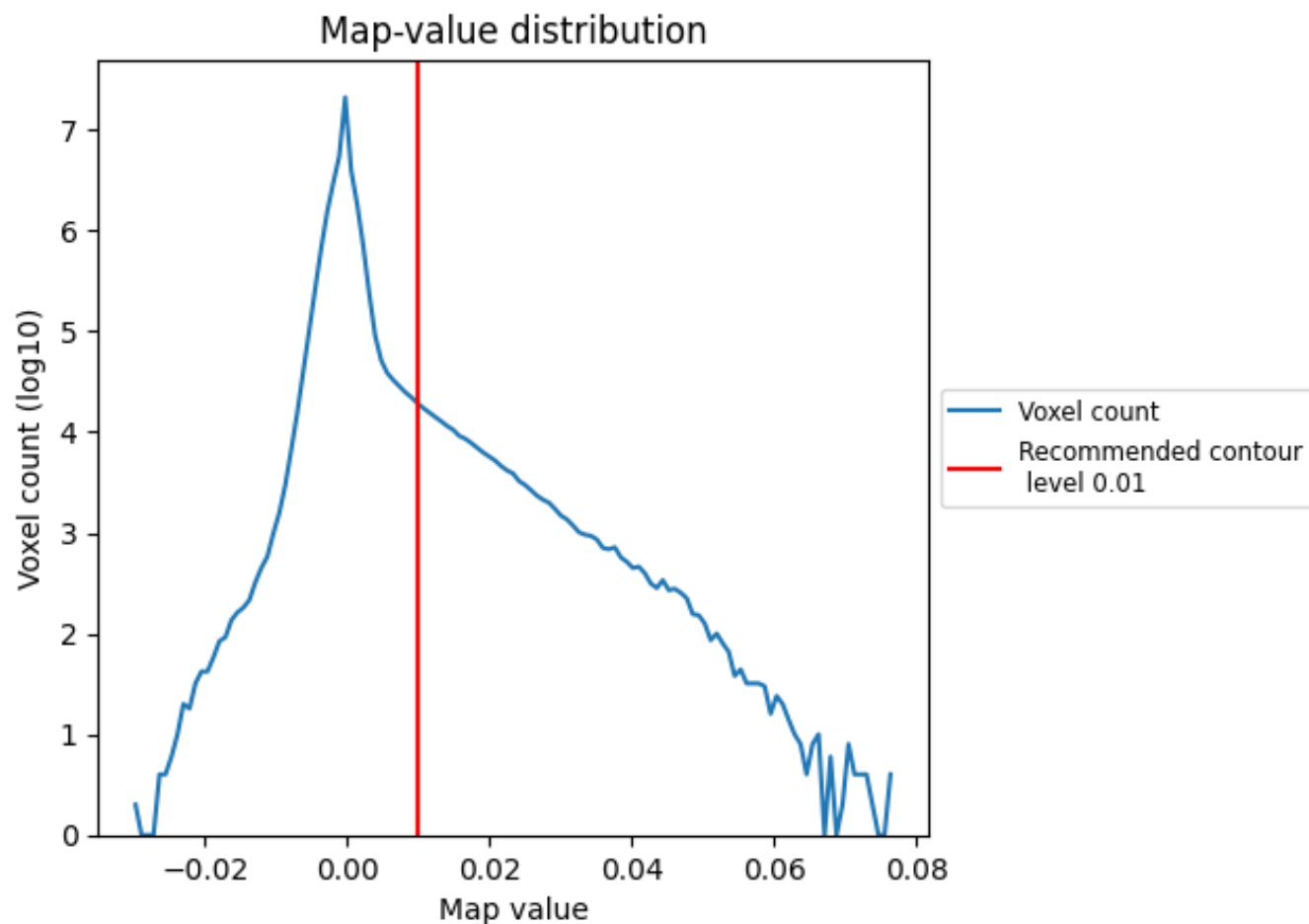
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

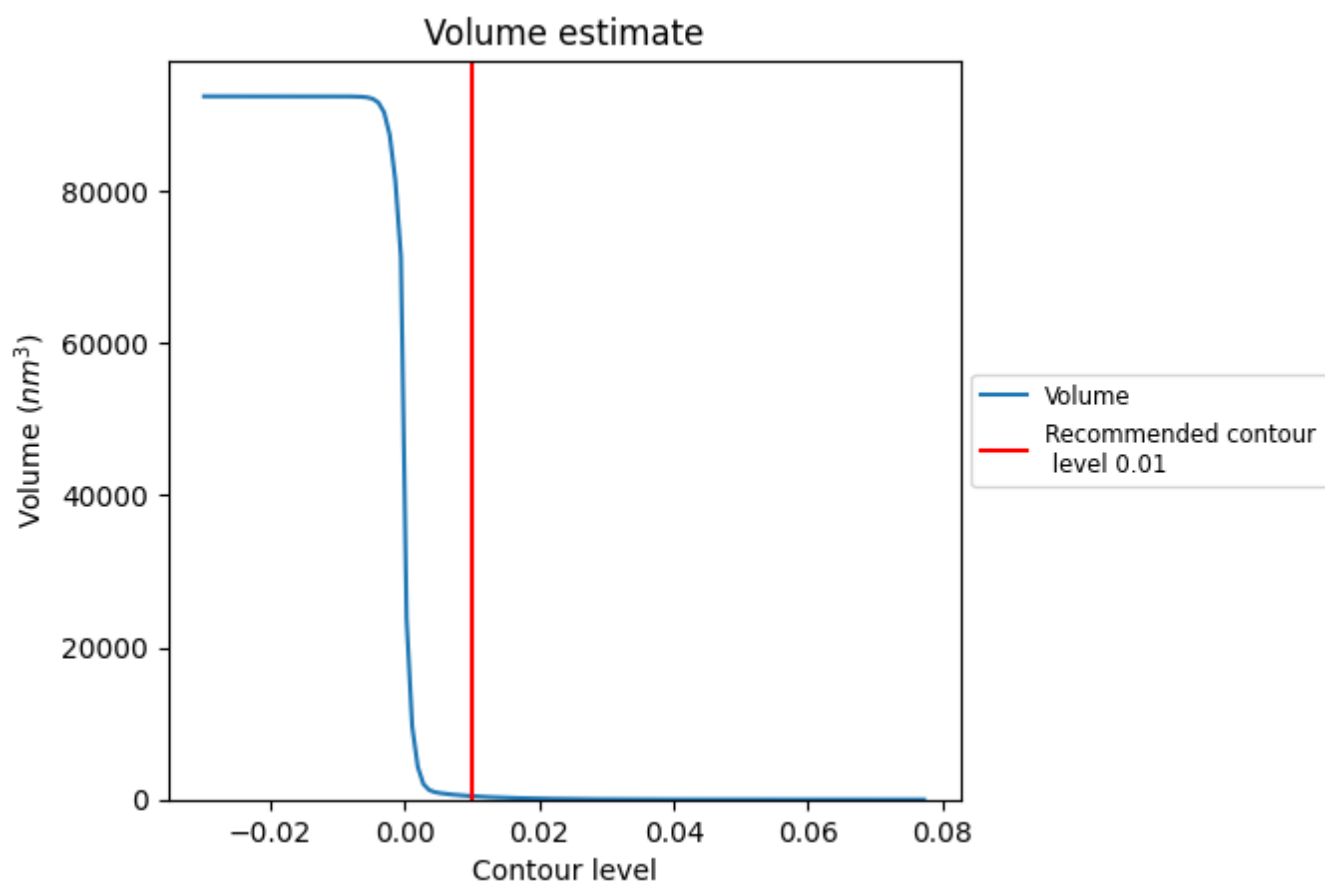
This section contains the results of statistical analysis of the map.

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.

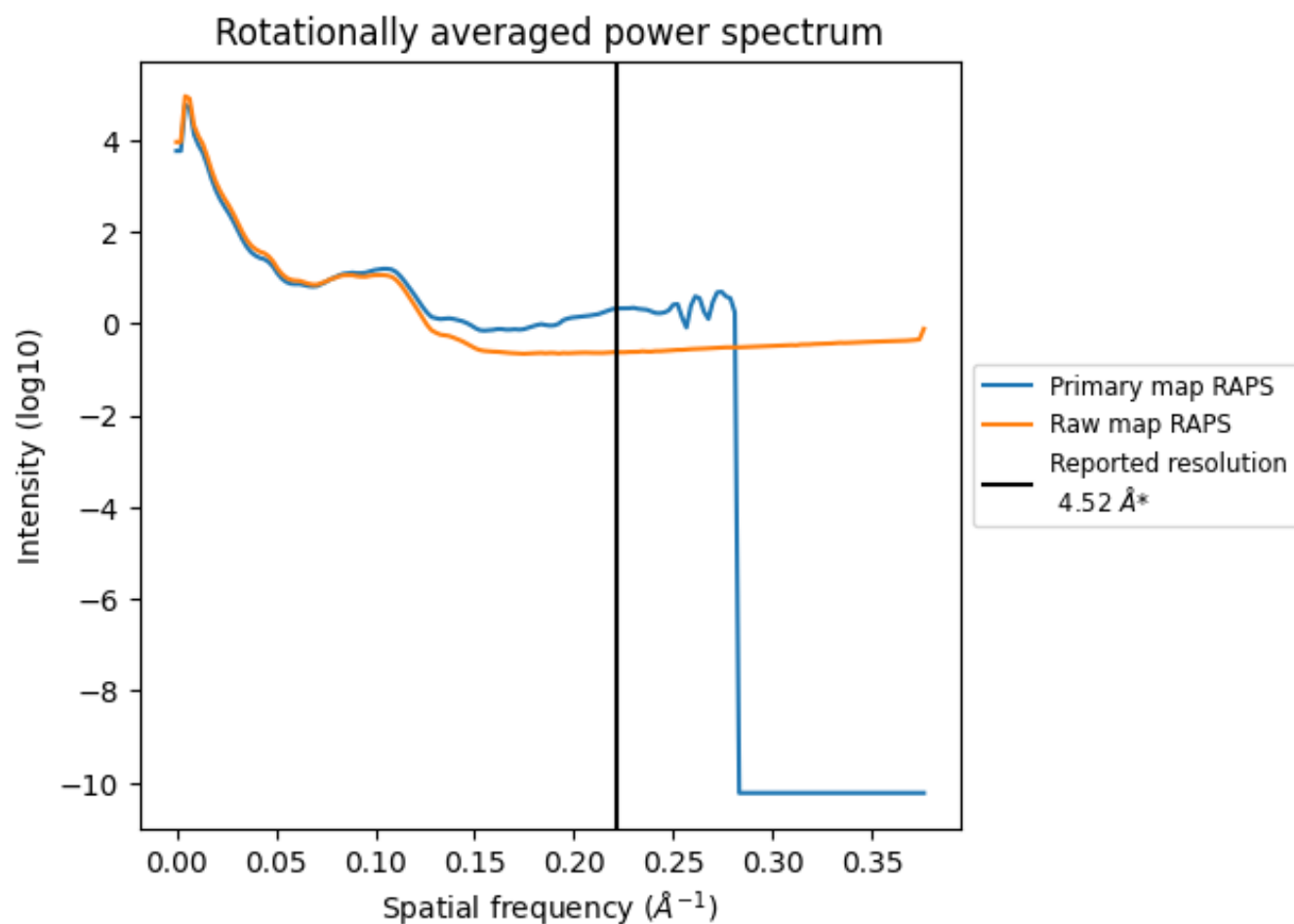
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 453 nm^3 ; this corresponds to an approximate mass of 409 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 ⓘ

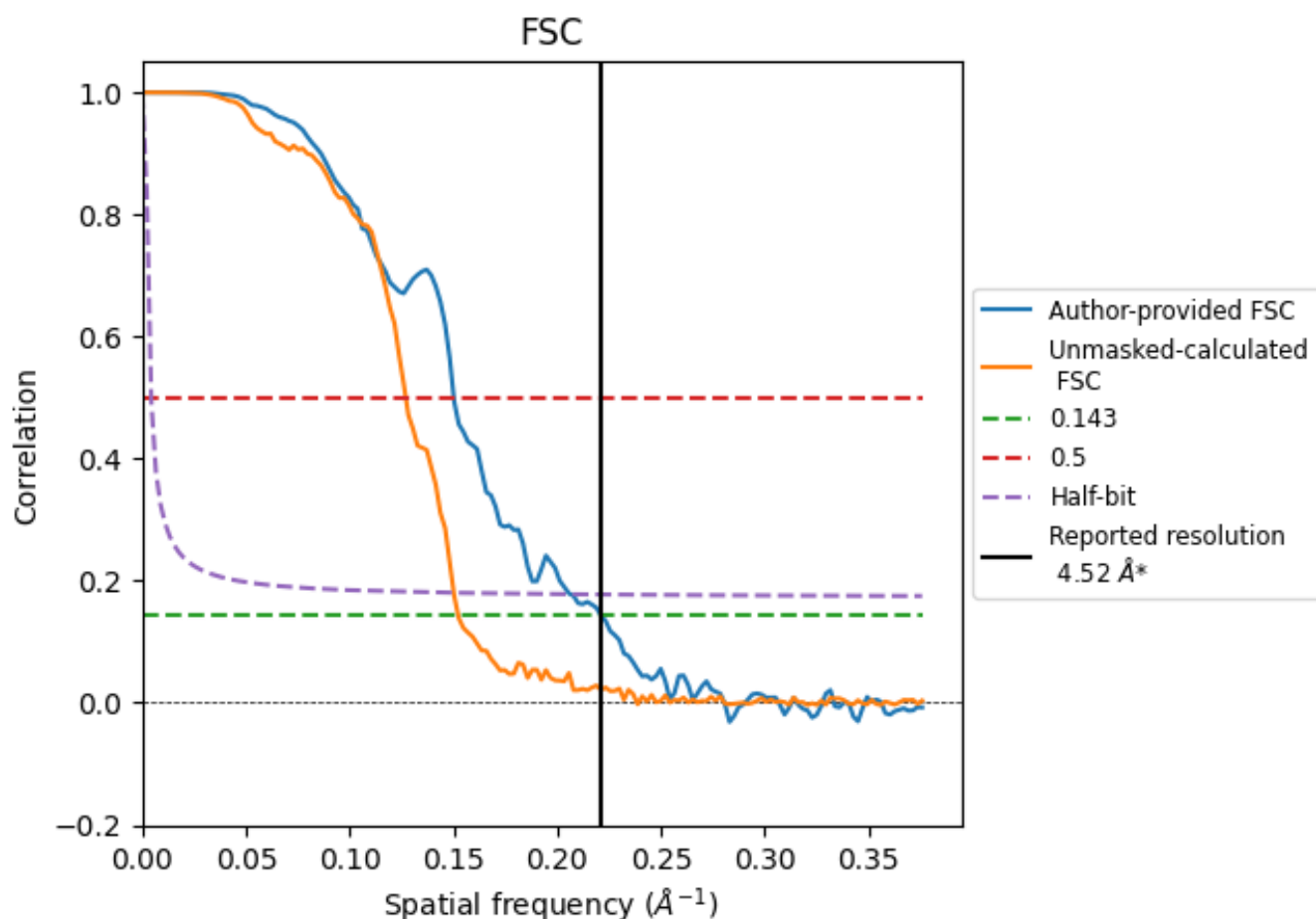


*Reported resolution corresponds to spatial frequency of 0.221 $\text{\AA}^{-1}$

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 0.221 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

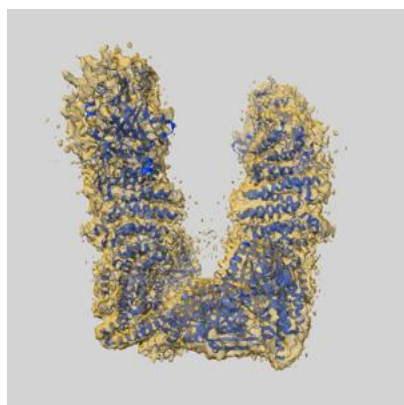
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.52	-	-
Author-provided FSC curve	4.52	6.66	4.84
Unmasked-calculated*	6.57	7.87	6.66

*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 6.57 differs from the reported value 4.52 by more than 10 %

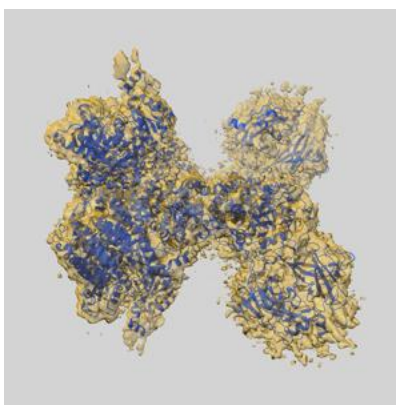
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-65175 and PDB model 9VM3. Per-residue inclusion information can be found in section [3](#) on page [5](#).

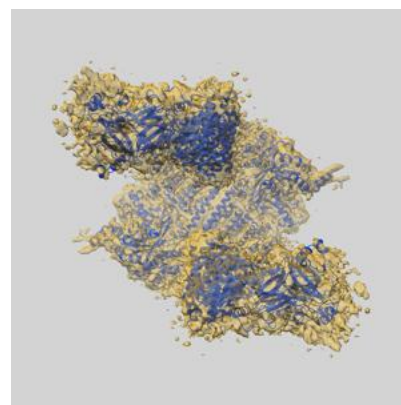
9.1 Map-model overlay [i](#)



X



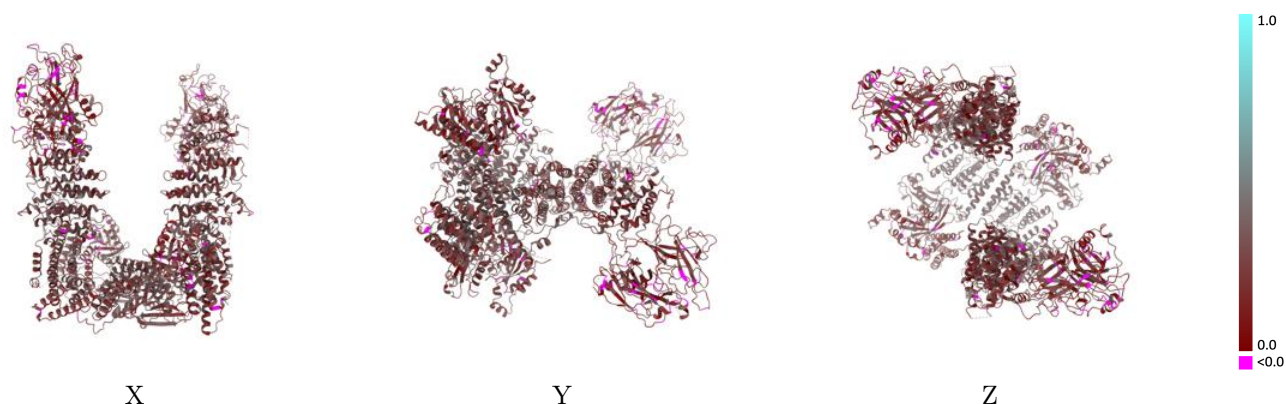
Y



Z

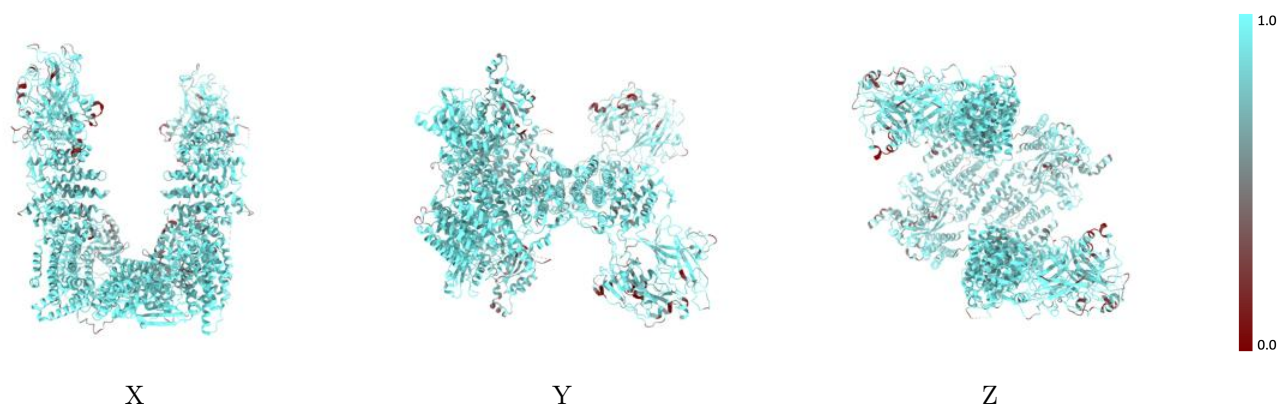
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



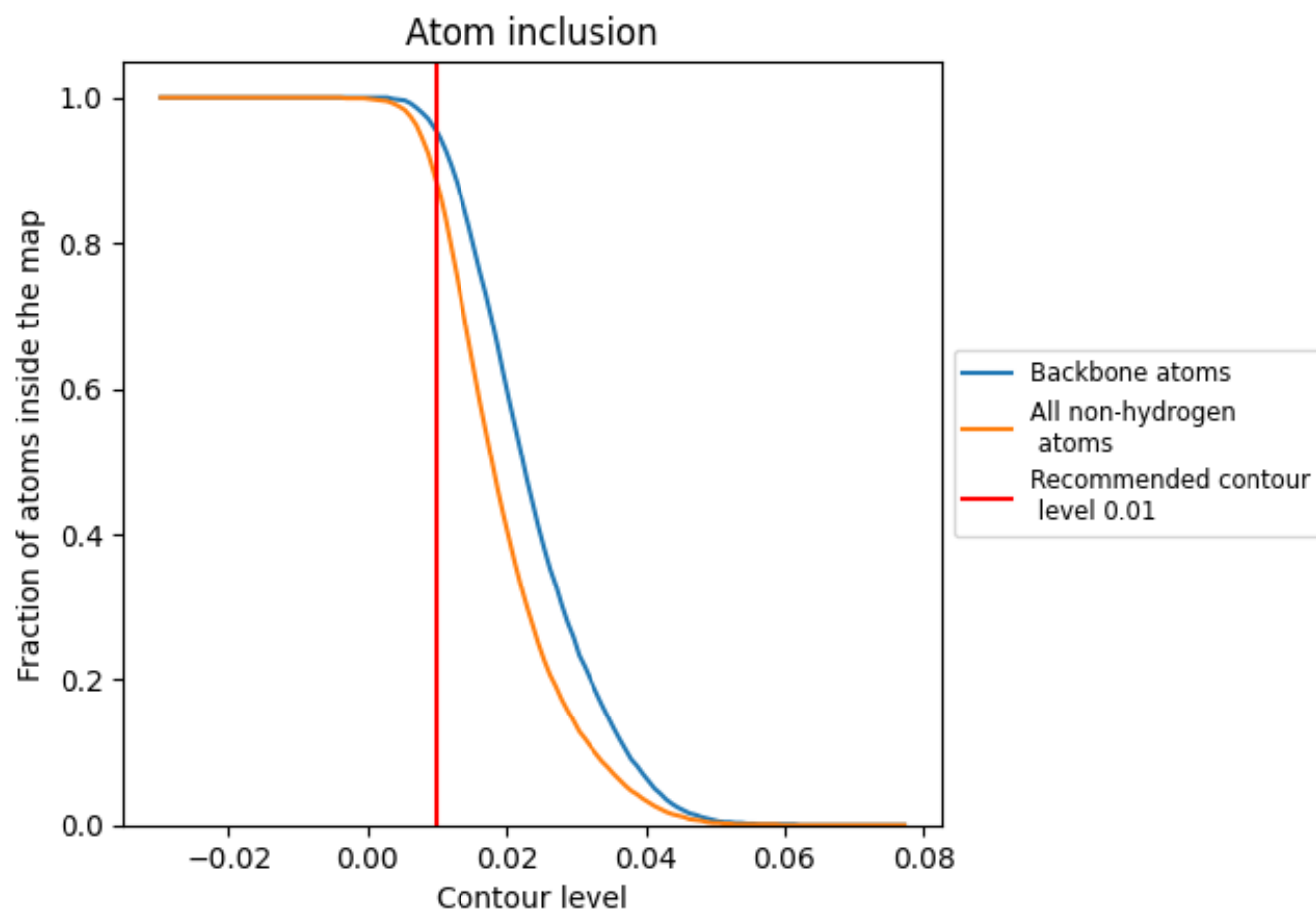
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 95% of all backbone atoms, 88% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

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	0.8810	0.2590
A	0.8900	0.2630
B	0.7890	0.2200
C	0.8910	0.2630
D	0.7980	0.2270

