



## wwPDB EM Validation Summary Report ⓘ

Oct 19, 2024 – 09:26 PM EDT

PDB ID : 6MIX  
EMDB ID : EMD-9132  
Title : Human TRPM2 ion channel in apo state  
Authors : Wang, L.; Fu, T.M.; Xia, S.; Wu, H.  
Deposited on : 2018-09-20  
Resolution : 3.60 Å(reported)

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

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<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>.

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

EMDB validation analysis : 0.0.1.dev113  
MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

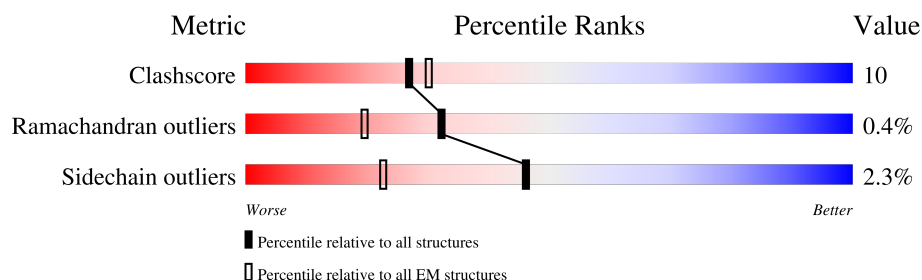
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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  $\geq 3$ , 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	1503	<div> <div>83%</div> <div> <div>65%</div> <div>23%</div> <div>11%</div> </div> </div>
1	B	1503	<div> <div>89%</div> <div> <div>65%</div> <div>22%</div> <div>11%</div> </div> </div>
1	C	1503	<div> <div>89%</div> <div> <div>65%</div> <div>22%</div> <div>11%</div> </div> </div>
1	D	1503	<div> <div>88%</div> <div> <div>65%</div> <div>22%</div> <div>11%</div> </div> </div>

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 43120 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.

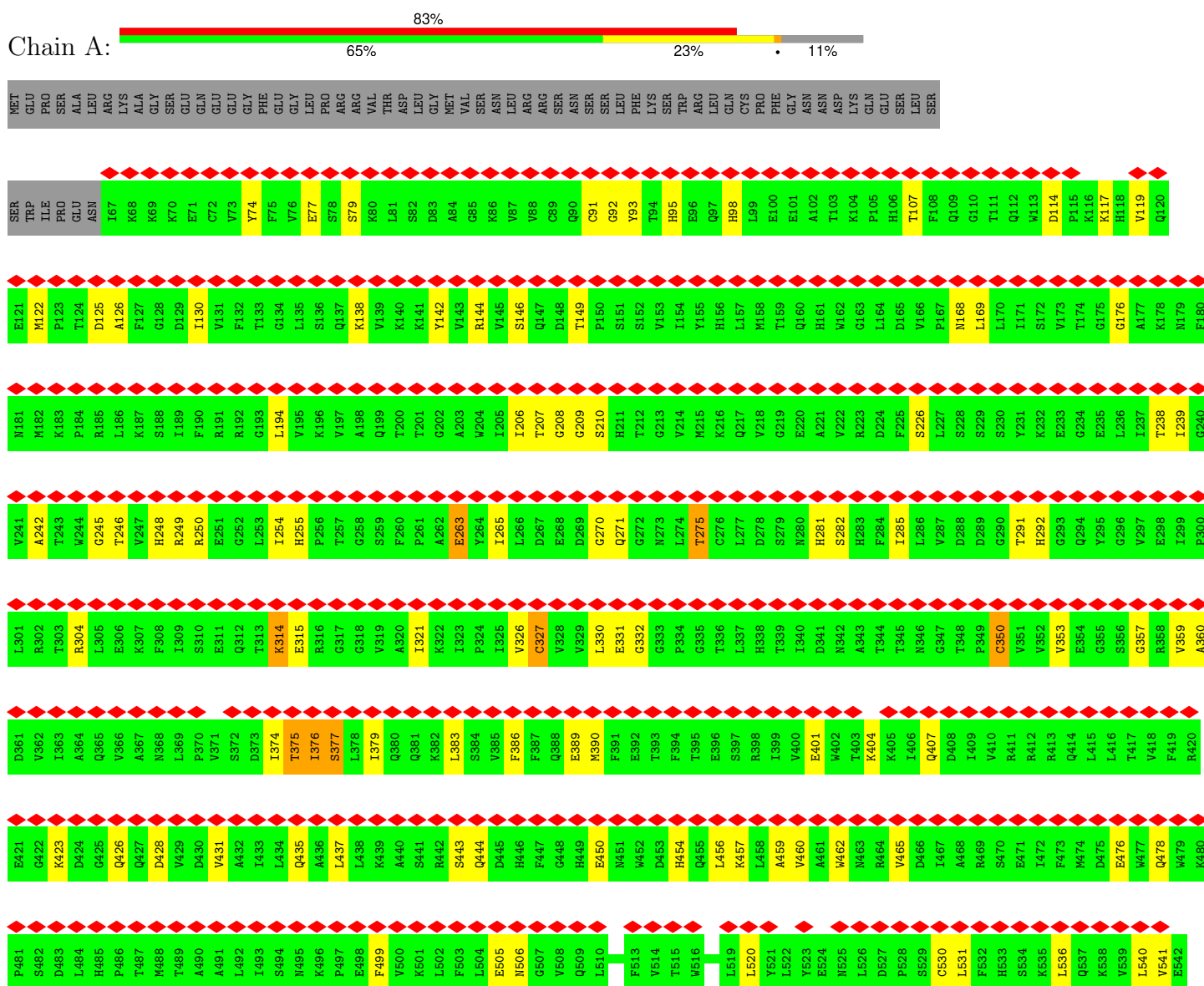
- Molecule 1 is a protein called Transient receptor potential cation channel subfamily M member 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1337	Total	C	N	O	S	0	0
			10780	6942	1865	1919	54		
1	B	1337	Total	C	N	O	S	0	0
			10780	6942	1865	1919	54		
1	C	1337	Total	C	N	O	S	0	0
			10780	6942	1865	1919	54		
1	D	1337	Total	C	N	O	S	0	0
			10780	6942	1865	1919	54		

### 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: Transient receptor potential cation channel subfamily M member 2



T1266	E1267	F1268	L1269	I1270	Y1271	D1272	P1273	G1274	A1275	F1276	Y1277	A1278	E1279	R1280	K1281	D1282	A1283	L1284	M1285	D1287	P1288	G1289	M1290	D1291	T1292	L1293	E1294	P1295	L1296	S1297	T1298	I1299	Q1300	Y1301	N1302	V1303	V1304	D1305	G1306	L1307	R1308	R1309	R1310	R1311	S1312	F1313	H1314	G1315	P1316	Y1317	T1318	V1319	Q1320	G1322	L1323	P1324			
GLU	ASP	VAL	THR	LEU	ALA	GLN	GLR	GLU	PRO	ASP	GLU	PRO	GLU	GLU	PRO	GLY	ARG	LYS	LYS	THR	PRO	G1235	D1236	S1237	H1238	N1240	N1241	A1242	R1243	H1244	L1245	L1246	Y1247	F1248	N1249	C1250	P1251	V1252	T1253	R1254	F1255	P1256	V1257	F1258	N1259	E1260	K1261	V1262	P1263	V1264	E1265								
Q1146	K1147	I1148	E1149	I1150	I1151	S1152	N1153	K1154	V1155	D1156	A1157	M1158	V1159	L1160	L1161	L1162	D1163	L1164	D1165	PRO	LEU	LYS	ARG	GLY	GLN	GLU	ALA	SER	GLU	GLU	GLN	VAL	ALA	THR	GLN	ALA	GLN	ALA	LEU	HIS	TRP	ILE	VAL	THR	LEU	ARG	ALA	SER	GLY	PHE	SER								
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Q1146	K1147	I1148	E1149	I1150	I1151	S1152	N1153	K1154	V1155	D1156	A1157	M1158	V1159	L1160	L1161	L1162	D1163	L1164	D1165	PRO	LEU	LYS	ARG	GLY	GLN	GLU	ALA	SER	GLU	GLU	GLN	VAL	ALA	THR	GLN	ALA	GLN	ALA	LEU	HIS	TRP	ILE	VAL	THR	LEU	ARG	ALA	SER	GLY	PHE	SER								
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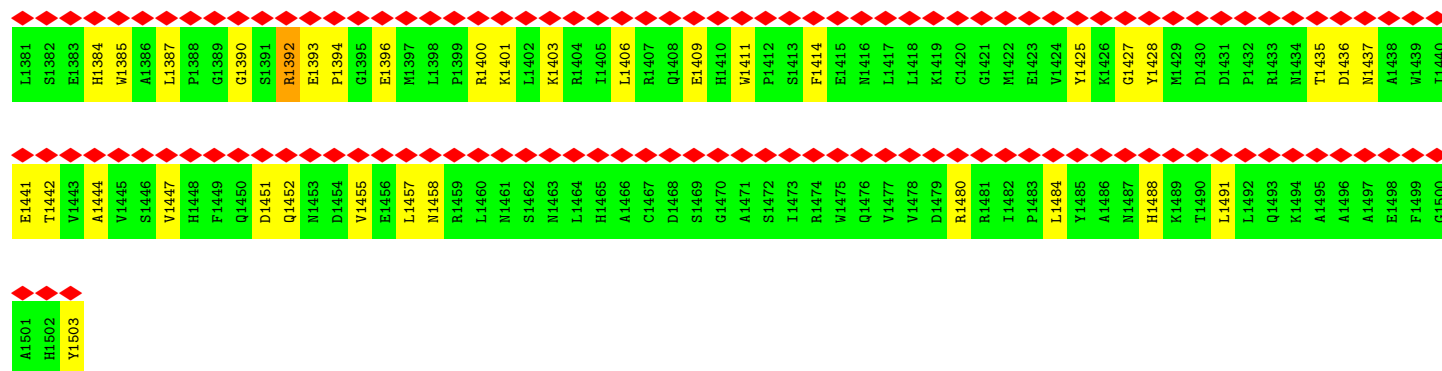


A1321	K1261	SER	K1141	P1081	P1021	R961	L901	C841	V781	A721	E661	G601
G1322	V1262	GLY	Q1142	P1082	E1022	R962	D902	E842	G782	L722	L662	V602
L1323	P1263	PHE	R1143	P1083	W1023	V963	F903	E843	T783	E723	L663	S603
P1324	W1264	SER	P1144	F1084	L1024	D964	I904	M844	P784	A724	K664	L604
L1325	E1145	GLU	E1146	I1085	T1025	W965	L905	R845	A785	K725	E665	R605
N1326	Q1146	ALA	Q1147	L1086	V1026	L966	F906	Q846	A786	D726	E666	S606
P1327	K1147	ASP	K1148	L1087	L1027	F967	C907	L847	R787	K727	E667	L607
M1328	T1148	VAL	T1149	S1088	L1028	R968	L908	F848	A788	K728	D668	Y608
G1329	E1149	THR	E1150	H1089	L1029	G969	R909	Y849	R789	F729	T669	K609
R1330	D1150	LEU	D1151	L1090	C1030	A970	L910	D850	A790	V730	D670	R610
T1331	I1151	ALA	I1152	Q1091	L1031	V971	M911	P851	F791	S731	S671	R611
G1332	S1152	SER	S1153	L1092	Y1032	Y972	H912	D852	F792	H732	S672	S612
L1333	M1153	LYS	M1154	F1093	L1033	H973	I913	E853	T793	G733	E673	G613
A1334	K1154	ALA	K1155	I1094	L1034	S974	F914	C854	A794	G734	E674	H614
G1335	V1155	GLU	V1156	K1095	F1035	Y975	T915	G855	P795	I735	M675	V615
R1336	D1156	GLU	D1157	R1096	T1036	L976	I916	L856	V796	Q736	L676	T616
G1337	A1157	PRO	A1158	V1097	N1037	T977	S917	M857	V797	K736	A677	F617
A1338	M1158	ALA	M1159	I1098	I1038	I978	K918	K858	V798	F738	L678	T618
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S1340	R1280	PRO	D1160	K1100	L1040	G980	L920	A860	H800	T740	E680	D620
C1341	K1281	GLY	L1161	T1101	L1041	Q981	G921	A861	L801	K741	P621	R621
F1342	D1282	ARG	L1162	P1102	N1042	I982	P922	L862	M802	V742	Y682	I622
A1283	G1343	LYS	D1163	K1103	L1043	P983	K923	Y863	I803	W743	E683	R623
P1344	A1284	THR	L1164	A1104	L1044	G984	I924	F864	L804	W744	H684	D624
N1345	D1165	GLU	D1166	R1105	T1045	Y985	I925	S865	S805	G745	R685	L625
H1346	M1286	GLU	LEU	H1106	A1046	I986	I926	D866	Y806	Q746	A686	L626
T1347	D1287	PRO	LYS	K1107	M1047	D987	V927	F867	F807	L747	I687	I627
L1348	P1288	GLY	ARG	Q1108	F1048	G988	K928	W868	A808	S748	G688	W628
Y1349	M1289	SER	SER	L1109	N1049	VAL	R929	N869	F809	V749	V689	A629
P1350	G1290	GLY	GLY	K1110	Y1050	ASN	M930	K670	L810	D750	F690	I630
D1291	M1351	THR	WET	M1111	T1051	PHE	M931	L871	C811	N751	T691	V631
T1292	L1293	H1239	GLU	K1112	F1052	PRO	K932	D872	L812	G752	E692	Q632
L1293	N1241	V1240	ARG	L1113	Q1053	GLU	D933	L873	F813	L753	C693	N633
E1294	A1242	N1241	ALA	E1114	Q1054	HIS	V934	C874	A814	W754	Y694	R634
P1295	ALA	A1242	LEU	K1115	V1055	CYS	F935	A875	Y815	R755	R695	R635
L1296	SER	R1243	ALA	M1116	Q1056	SER	F936	I876	V816	V756	K696	E636
S1297	LEU	H1244	LEU	E1117	E1057	ASN	F937	L877	L817	T757	L637	L637
L1298	GLU	L1245	GLU	E1118	H1058	GLY	L938	L878	M818	L758	E698	A638
I1299	GLN	L1246	GLU	A1119	H1059	THR	L939	L879	V819	C759	E699	G639
Q1300	VAL	Y1247	GLN	A1120	T1059	ASP	F939	F879	D820	M760	R700	I640
Y1301	ALA	P1248	ALA	L1120	D1060	PRO	L940	W880	D820	L760	A701	I641
M1302	N1249	N1249	GLN	L1121	Q1061	TYR	L941	A881	F821	A761	Q702	W642
L1362	C1250	C1250	THR	L1122	I1062	PRO	A942	G882	Q822	A762	K703	A644
V1303	P1251	P1251	ALA	S1123	W1063	LYS	V943	L883	Q823	F763	L704	Q644
C1364	V1252	V1252	GLN	M1124	K1064	CYS	W944	T884	W824	P764	L705	S645
D1305	L1253	L1253	ALA	E1125	F1065	PRO	V945	G885	P825	L765	L706	Q645
K1366	T1254	T1254	LEU	I1126	Q1066	SER	V946	R886	S826	L766	T706	Q646
G1306	R1254	R1254	THR	I1127	Q1066	ASP	S947	L887	W827	L767	R707	D647
L1307	F1255	F1255	TRP	Y1127	R1067	ALA	F948	I888	C828	T768	V708	C648
D1308	P1256	P1256	ILE	L1128	H1068	THR	F949	P889	E829	G769	S709	I649
L1368	K1369	K1369	VAL	K1129	D1069	ALA	G949	G769	E829	L770	E710	A650
K1370	R1310	V1257	ARG	L1129	L1070	GLN	V950	A890	C830	L770	A711	A651
M1371	R1311	THR	LEU	E1130	I1071	ARG	A951	T891	A831	I771	W712	A652
S1312	ARG	N1259	ARG	M1131	T1071	PRO	I951	R891	I832	S772	L713	L653
F1313	ALA	E1260	ALA	Y1132	E1072	ALA	K952	L892	I833	F773	G713	L653
H1314	L1133	L1133	L1133	L1133	E1073	F1020	Q953	Y893	R834	F774	T715	A654
V1374	Q1134	Q1134	Q1134	Q1134	Y1074		A954	P894	W835	R775	T716	C655
L1375	N1135	N1135	N1135	N1135	H1075		I955	G895	L836	E776	W717	S656
V1376	R1136	R1136	R1136	R1136	G1076		L956	R896	L836	K776	T718	K657
V1377	Q1137	Q1137	Q1137	Q1137	R1077		I957	V897	F837	R777	C717	I658
K1378	F1138	F1138	F1138	F1138	P1078		H958	I898	S838	L778	L718	I659
L1379	Q1139	Q1139	Q1139	Q1139	L1079		N959	L899	L839	Q779	Q719	L659
P1380	O1320	O1320	O1320	O1320	A1080		E960	S900	W840	D780	L720	K660

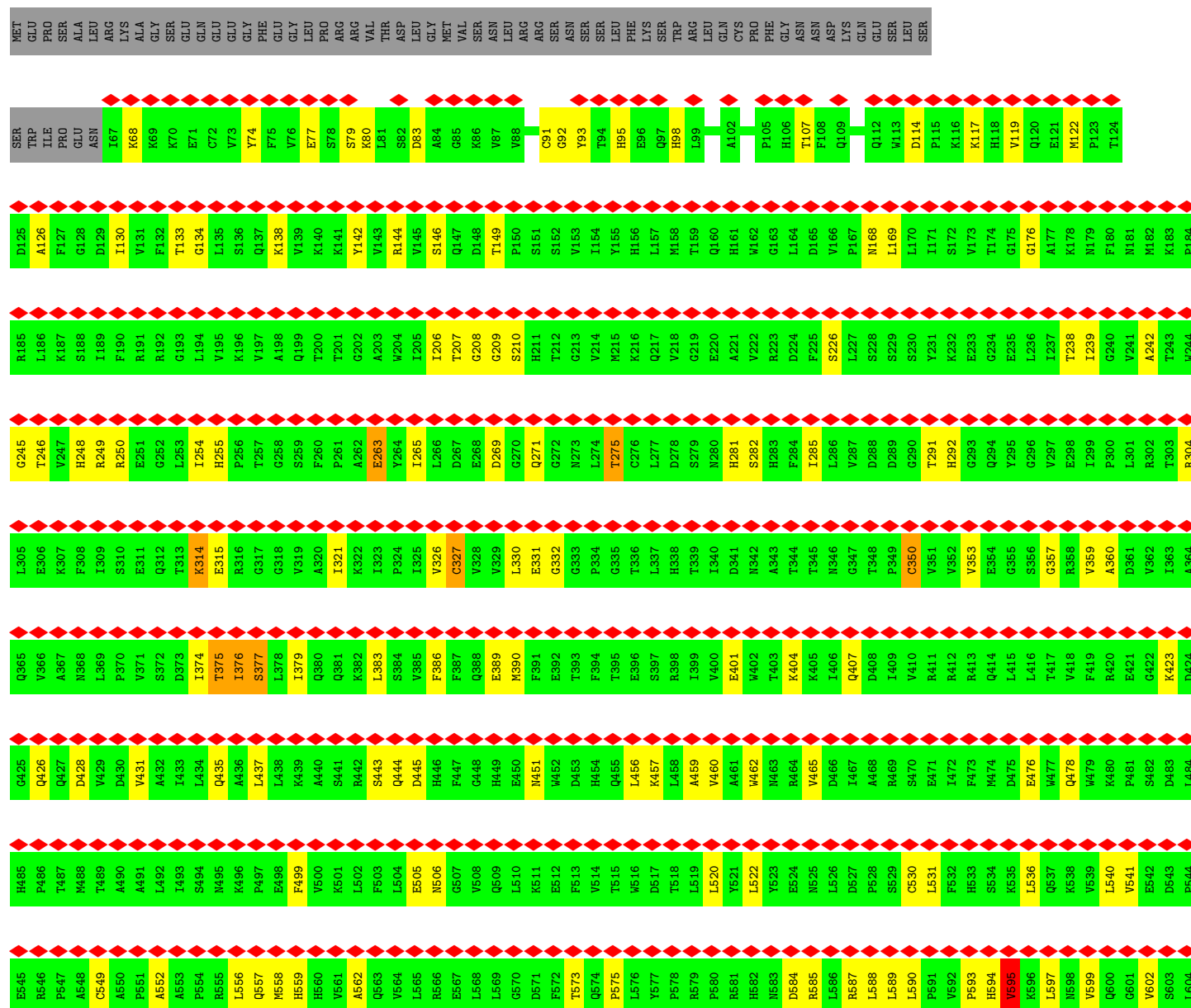
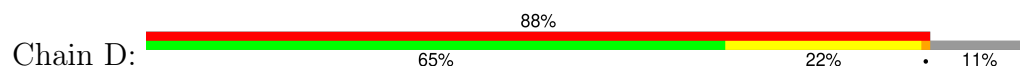




A1321	G1322	L1323	P1324	L1325	L1326	P1327	M1328	G1329	R1330	T1331	L1332	L1333	R1334	G1335	R1336	G1337	S1338	L1339	S1340	C1341	F1342	G1343	P1344	N1345	H1346	T1347	L1348	P1349	M1350	M1351	V1352	T1353	R1354	W1355	R1356	R1357	N1358	E1359	D1360	G1361	A1362	I1363	C1364	R1365	K1366	S1367	T1368	K1369	L1370	M1371	L1372	E1373	L1374	L1375	V1376	V1377	K1378	L1379	P1380	
K1261	V1262	P1263	W1264	E1265	T1266	E1267	F1268	L1269	I1270	Y1271	D1272	P1273	L1274	F1275	Y1276	T1277	A1278	E1279	R1280	K1281	D1282	A1283	A1284	A1285	M1286	D1287	M1288	M1289	G1290	D1291	T1292	L1293	E1294	P1295	L1296	S1297	L1298	I1299	Q1300	Y1301	M1302	V1303	V1304	D1305	G1306	L1307	R1308	D1309	R1310	R1311	S1312	F1313	H1314	G1315	P1316	Y1317	T1318	V1319	Q1320	
SER	GLY	PHE	SER	GLU	ALA	ASP	VAL	PRO	THR	LEU	ALA	SER	GLN	LYS	ALA	GLU	PRO	ALA	GLU	GLY	ARG	LYS	LYS	THR	GLU	PRO	G1235	D1236	S1237	Y1238	H1239	V1240	N1241	A1242	R1243	H1244	L1245	L1246	Y1247	P1248	N1249	C1250	P1251	V1252	T1253	R1254	F1255	P1256	V1257	P1258	N1259	E1260								
K1141	Q1142	R1143	P1144	E1145	Q1146	K1147	T1148	E1149	D1150	I1151	S1152	M1153	K1154	V1155	D1156	A1157	M1158	V1159	D1160	L1161	L1162	D1163	L1164	D1165	PRO	LEU	LYS	ARG	SER	GLY	SER	GLY	GLN	ARG	LEU	SER	LEU	GLU	GLN	VAL	ALA	GLN	THR	ALA	LEU	HIS	TRP	ILE	VAL	THR	LEU	ARG	ALA							
P1081	P1082	P1083	F1084	I1085	L1086	L1087	S1088	H1089	L1090	Q1091	L1092	F1093	I1094	K1095	R1096	V1097	I1098	L1099	K1100	T1101	P1102	G1103	K1104	R1105	H1106	K1107	Q1108	L1109	K1110	M1111	K1112	L1113	E1114	K1115	M1116	E1117	E1118	A1119	A1120	L1121	L1122	S1123	W1124	W1124	E1125	I1126	Y1127	L1128	K1129	E1130	M1131	Y1132	L1133	Q1134	N1135	R1136	Q1137	F1138	Q1139	Q1140
P1021	E1022	W1023	L1024	T1025	V1026	L1027	L1028	L1029	C1030	L1031	Y1032	L1033	L1034	F1035	T1036	N1037	I1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	A1046	M1047	F1048	N1049	Y1050	T1051	F1052	Q1053	Q1054	V1055	Q1056	E1057	H1058	T1059	D1060	Q1061	I1062	W1063	K1064	F1065	Q1066	R1067	H1068	D1069	L1070	I1071	E1072	E1073	Y1074	H1075	G1076	R1077	P1078	A1079	A1080	
R961	R962	V963	D964	W965	L966	F967	R968	G969	A970	V971	Y972	H973	S974	Y975	L976	Y977	I978	F979	G979	Q981	I982	P983	G984	Y985	I986	D987	G988	VAL	ASN	ASN	PRO	GLU	HIS	CYS	SER	PRO	ASN	GLY	THR	ASP	PRO	TYR	LYS	PRO	LYS	CYS	PRO	GLU	SER	ASP	ALA	THR	GLN	ARG	PRO	ALA	F1020			
L901	D902	F903	I904	L905	F906	C907	L908	R909	L910	M911	H912	I913	F914	T915	I916	S917	K918	T919	L920	G921	P922	K923	I924	I925	I926	V927	K928	R929	M930	M931	K932	D933	V934	F935	F936	F937	L938	F939	L940	L941	A942	V943	N944	V945	V946	S947	F948	G949	V950	A951	K952	Q953	A954	I955	L956	I957	H958	N959	E960	
C941	E942	E943	M944	R945	Q946	L947	F948	Y949	D950	P951	D952	E953	C954	G955	L956	M957	K958	K959	A960	A961	L962	Y963	F964	S965	S966	D967	W968	N969	K970	L971	D972	V973	G974	A975	I976	L977	L978	F979	W980	L981	N982	I983	L984	S985	Y986	V987	W988	F989	H980	L981	E982	E983	H984	R985	Y986	F987	I988	G989	V990	
A721	L722	E723	A724	K725	K726	M727	K728	F729	V730	S731	H732	G733	G734	I735	Q736	A737	L738	L739	T740	K741	E742	E743	W744	G745	Q746	L747	S748	V749	D750	N751	G752	L753	G754	R755	R756	D757	L758	C759	M760	A761	Q762	K763	L764	L765	L766	L767	R768	W769	S770	E771	A772	W773	G774	T775	K776	L777	L778	Q779	D780	
E661	L662	T783	K664	E665	E666	E667	D668	T669	D670	S671	S672	E673	E674	M675	L676	A677	L678	A679	E680	E681	E682	E683	H684	R685	L686	I687	G688	V689	F690	T691	E692	C693	C694	Y695	R696	K696	D697	E698	E699	R700	A701	Q702	K703	L704	S705	L706	R707	W708	S709	E710	A711	W712	G713	K714	T715	L716	C717	L718	Q719	L720
G601	V602	S603	L604	R605	S606	L607	Y608	K609	R610	S611	S612	G613	H614	V615	T616	F617	T618	M619	D620	P621	I622	R623	D624	L625	L626	I627	W628	A629	I630	V631	Q632	N633	R634	R635	E636	L637	L638	G639	I640	I641	W642	A643	Q644	S645	Q646	D647	C648	I649	A650	A651	A652	L653	A654	C655	S656	K657	I658	L659	K660	



- Molecule 1: Transient receptor potential cation channel subfamily M member 2



L1325	E1265	SER	E1145	I1085	T1025	W965	L905	R945	A785	K725	E665	R605
N1326	T1266	GLU	Q1146	L1086	V1026	L966	F906	Q946	A786	D726	E666	S606
P1327	E1267	ASP	K1147	L1087	L1027	F967	C907	L947	R787	M727	E667	L607
M1328	F1268	VAL	I1148	S1088	L1028	R968	L908	F948	A788	K728	D668	Y608
G1329	L1269	PRO	E1149	H1089	C1029	G969	R909	Y949	R789	F729	T669	K609
R1330	I1270	THR	D1150	L1090	C1030	A970	L910	D950	A790	V730	D670	R610
T1331	I1271	LEU	I1151	Q1091	L1031	V971	M911	P951	F791	S731	S671	S611
G1332	D1272	ALA	S1152	L1092	Y1032	Y972	H912	D952	F792	H732	S672	S612
L1333	P1273	SER	M1153	F1093	L1033	H973	I913	E953	T793	G733	E673	G613
R1334	P1274	LVS	K1154	I1094	L1034	S974	F914	C954	A794	G734	E674	H614
G1335	F1275	ALA	V1155	K1095	F1035	Y975	T915	G955	P795	I735	M675	V615
R1336	Y1276	GLU	D1156	R1096	T1036	L976	I916	L956	V796	Q736	L676	T616
G1337	A1277	PRO	A1157	V1097	T1037	T977	S917	M957	V797	A737	A677	F617
S1338	T1278	ASP	M1158	V1098	I1038	I978	K918	K958	V798	F738	L678	T618
L1339	E1279	ALA	V1159	L1099	L1039	F979	T919	K959	F799	L739	A679	M619
S1340	R1280	GLU	D1160	K1100	L1040	G980	L920	A960	H800	T740	E680	D620
C1341	D1281	PRO	L1161	T1101	L1041	Q981	G921	A961	L901	K741	E681	P621
F1342	D1282	GLY	L1162	P1102	N1042	I982	P922	L962	N902	V742	Y682	I622
G1343	A1283	ARG	D1163	A1103	L1043	P983	K923	Y963	I903	W743	E683	R623
P1344	A1284	LVS	L1164	K1104	L1044	G984	I924	F964	L904	W744	H684	D624
N1345	A1285	LVS	D1165	R1105	I1045	Y985	I925	S965	S905	G745	R685	L625
H1346	M1286	THR	PRO	H1106	A1046	I986	I926	D966	Y906	Q746	A686	L626
T1347	D1287	GLU	LEU	K1107	M1047	D987	V927	F967	F907	L747	I687	I627
L1348	P1288	ARG	LYS	Q1108	F1048	G988	K928	W968	A908	S748	W628	W628
Y1349	M1289	SER	ARG	L1109	N1049	VAL	R929	N969	F909	V749	V689	A629
P1350	G1290	GLY	GLY	K1110	Y1050	ASN	M930	K970	L910	D750	F690	I630
M1351	D1291	SER	M1111	M1111	T1051	ASN	M931	L871	C911	N751	T691	V631
V1352	T1292	GLU	GLN	K1112	F1052	PRO	K932	D972	L912	G752	E692	Q632
L1353	L1293	ARG	ARG	L1113	Q1053	GLU	D933	W973	F913	L753	C693	M633
R1354	E1294	LEU	LEU	E1114	Q1054	HIS	V934	G974	A814	W754	Y694	R634
W1355	P1295	ALA	LEU	K1115	V1055	SER	F935	A975	Y915	R755	R695	R635
R1356	L1296	ALA	SER	M1116	Q1056	PRO	F936	I976	V916	V756	K696	E636
R1357	S1297	LEU	LEU	E1117	E1057	ASN	F937	L977	L917	T757	D697	L637
N1358	L1298	GLU	GLU	E1118	H1058	THR	L938	L978	M918	L758	E698	A638
E1359	I1299	GLN	GLN	A1119	T1059	ASP	F939	F979	V919	C759	E699	G639
D1360	Q1300	VAL	VAL	A1120	D1060	PRO	L940	W980	R700	M760	R700	I640
G1361	Y1301	ALA	ALA	L1121	Q1061	TYR	L941	A981	F921	L761	A701	I641
A1362	M1302	GLN	GLN	L1122	I1062	LYS	A942	G982	Q922	A762	Q702	W642
I1363	V1303	ALA	ALA	S1123	W1063	LYS	V943	L983	P923	F763	K703	A643
G1364	V1304	LEU	GLN	W1124	K1064	CYS	W944	T984	V924	P764	L704	Q644
R1365	D1305	LEU	LEU	E1125	F1065	GLU	V945	C985	P925	L765	L705	S645
G1305	T1307	TRP	HIS	I1126	Q1066	SER	V946	R986	S926	L766	T706	Q645
L1307	R1308	ILE	TRP	Y1127	R1067	ASP	S947	L987	W927	L767	R707	D647
D1309	D1309	VAL	VAL	L1128	H1068	ALA	F948	I988	C928	T768	R708	C648
R1310	R1310	THR	THR	K1129	D1069	GLN	G949	P989	E929	G769	S709	I649
M1371	S1311	LEU	LEU	E1130	L1070	GLN	V950	A990	C930	L770	A650	A650
S1312	S1312	ARG	ARG	M1131	I1071	PRO	A951	T991	A831	I771	A711	A651
H1313	F1313	ALA	ALA	Y1132	E1072	ALA	K952	L992	I932	S772	W712	A652
V1314	H1314	SER	SER	L1133	E1073	F1020	Q953	L993	Y933	F773	G713	L653
G1315	G1315	GLY	GLY	Q1134	Y1074	P1021	A954	P994	L934	K714	K714	A654
P1316	P1316	PHE	SER	M1135	H1075	E1022	I955	G995	W935	E775	T715	C655
Y1317	Y1317	THR	THR	R1136	G1076	W1023	L956	R996	L936	K776	T716	S656
T1318	T1318	LEU	LEU	Q1137	R1077	W1024	I957	V997	F937	R777	C717	K657
V1319	V1319	GLN	GLN	P1078	P1078	H958	H958	I998	S938	L778	L718	I658
P1320	P1320	VAL	VAL	Q1139	A1079	N959	N959	L999	L939	Q779	Q719	L659
L1381	A1321	ALA	ALA	Q1140	A1080	E960	E960	S900	V940	D780	L720	K660
S1382	S1382	THR	THR	K1141	P1081	R961	R961	L901	C941	V781	A721	E661
E1383	L1323	GLY	GLY	Q1142	P1082	Y962	Y962	S902	E942	L782	L722	L662
H1384	P1324	SER	SER	R1143	P1083	V963	V963	F903	E943	T783	E723	S663
				P1144	F1084	D964	D964	I904	M944	P784	A724	K664

V1445	S1446	V1447	H1448	F1449	Q1450	D1451	Q1452	N1453	D1454	V1455	E1456	L1457	N1458	R1459	L1460	N1461	S1462	N1463	L1464	H1465	A1466	C1467	D1468	S1469	G1470	A1471	S1472	I1473	R1474	W1475	Q1476	V1477	V1478	D1479	R1480	R1481	I1482	P1483	L1484	Y1485	A1486	N1487	H1488	K1489	T1490	L1491	L1492	Q1493	K1494	A1495	A1496	A1497	E1498	F1499	G1500	A1501	H1502	Y1503	
W1385	A1386	L1387	P1388	G1389	G1390	S1391	R1392	E1393	P1394	G1395	E1396	M1397	L1398	P1399	R1400	K1401	L1402	K1403	R1404	I1405	L1406	R1407	Q1408	E1409	H1410	W1411	P1412	S1413	F1414	E1415	N1416	L1417	L1418	K1419	C1420	G1421	M1422	E1423	V1424	Y1425	K1426	G1427	Y1428	M1429	D1430	D1431	P1432	R1433	N1434	T1435	D1436	N1437	A1438	W1439	I1440	E1441	T1442	V1443	A1444

## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	34477	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	70.12	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	10.431	Depositor
Minimum map value	-7.266	Depositor
Average map value	-0.014	Depositor
Map value standard deviation	0.522	Depositor
Recommended contour level	1.7	Depositor
Map size ( $\text{\AA}$ )	332.0, 332.0, 332.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	0.83, 0.83, 0.83	Depositor

## 5 Model quality [i](#)

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

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	0.36	0/11050	0.63	8/14990 (0.1%)
1	B	0.36	0/11050	0.63	8/14990 (0.1%)
1	C	0.36	0/11050	0.63	8/14990 (0.1%)
1	D	0.36	0/11050	0.63	8/14990 (0.1%)
All	All	0.36	0/44200	0.63	32/59960 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	12
1	B	0	12
1	C	0	12
1	D	0	12
All	All	0	48

There are no bond length outliers.

The worst 5 of 32 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	350	CYS	CA-CB-SG	7.96	128.34	114.00
1	B	1043	LEU	CA-CB-CG	7.96	133.61	115.30
1	C	1043	LEU	CA-CB-CG	7.95	133.59	115.30
1	A	1043	LEU	CA-CB-CG	7.95	133.59	115.30
1	D	350	CYS	CA-CB-SG	7.95	128.30	114.00

There are no chirality outliers.

5 of 48 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	374	ILE	Peptide
1	A	375	THR	Peptide
1	A	549	CYS	Peptide
1	A	615	VAL	Peptide
1	A	666	GLU	Peptide

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

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10780	0	10822	225	0
1	B	10780	0	10822	222	0
1	C	10780	0	10822	224	0
1	D	10780	0	10822	214	0
All	All	43120	0	43288	841	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 10.

The worst 5 of 841 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:923:LYS:HD2	1:D:1047:MET:HG2	1.67	0.77
1:A:984:GLY:O	1:B:968:ARG:NH2	2.21	0.72
1:D:968:ARG:HA	1:D:972:TYR:HB3	1.72	0.72
1:B:968:ARG:HA	1:B:972:TYR:HB3	1.72	0.71
1:C:968:ARG:HA	1:C:972:TYR:HB3	1.72	0.71

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	1331/1503 (89%)	1131 (85%)	195 (15%)	5 (0%)	30	63
1	B	1331/1503 (89%)	1131 (85%)	195 (15%)	5 (0%)	30	63
1	C	1331/1503 (89%)	1131 (85%)	195 (15%)	5 (0%)	30	63
1	D	1331/1503 (89%)	1133 (85%)	193 (14%)	5 (0%)	30	63
All	All	5324/6012 (89%)	4526 (85%)	778 (15%)	20 (0%)	32	63

5 of 20 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	376	ILE
1	A	377	SER
1	B	376	ILE
1	B	377	SER
1	C	376	ILE

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1176/1318 (89%)	1149 (98%)	27 (2%)	45	68
1	B	1176/1318 (89%)	1149 (98%)	27 (2%)	45	68
1	C	1176/1318 (89%)	1149 (98%)	27 (2%)	45	68
1	D	1176/1318 (89%)	1149 (98%)	27 (2%)	45	68
All	All	4704/5272 (89%)	4596 (98%)	108 (2%)	46	68

5 of 108 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	210	SER
1	C	759	CYS
1	D	878	LEU

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	C	275	THR
1	C	606	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 69 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	248	HIS
1	D	426	GLN
1	D	1042	ASN
1	B	280	ASN
1	B	248	HIS

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

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

There are no ligands in this entry.

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

There are no such residues in this entry.

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

There are no chain breaks in this entry.

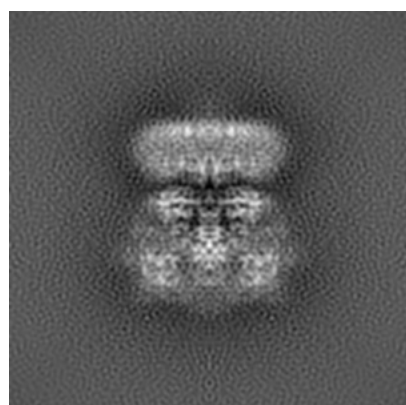
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9132. These allow visual inspection of the internal detail of the map and identification of artifacts.

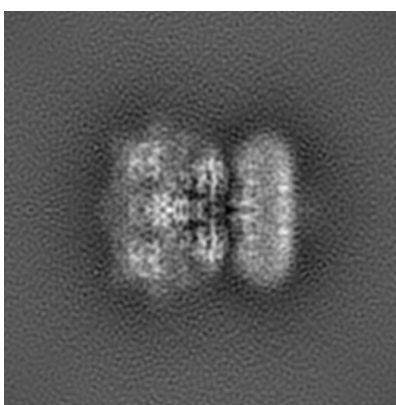
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

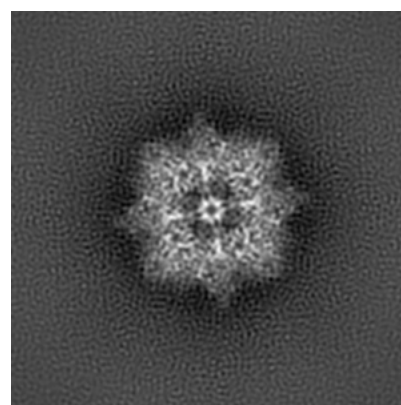
#### 6.1.1 Primary map



X



Y

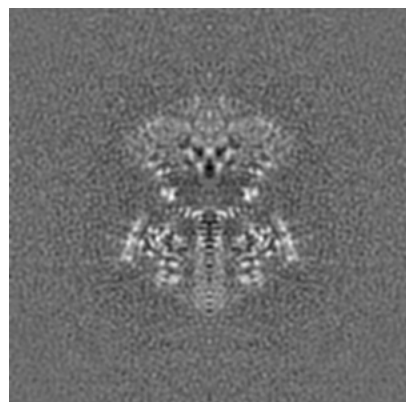


Z

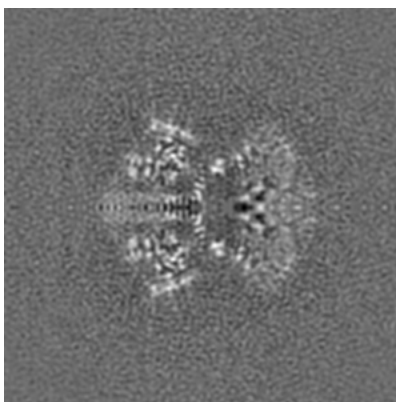
The images above show the map projected in three orthogonal directions.

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

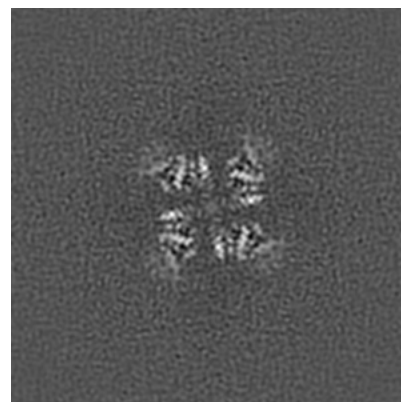
#### 6.2.1 Primary map



X Index: 200



Y Index: 200



Z Index: 200

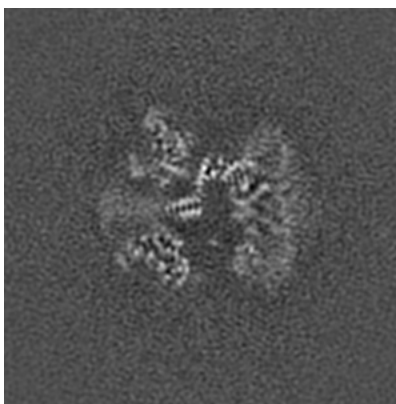
The images above show central slices of the map in three orthogonal directions.

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

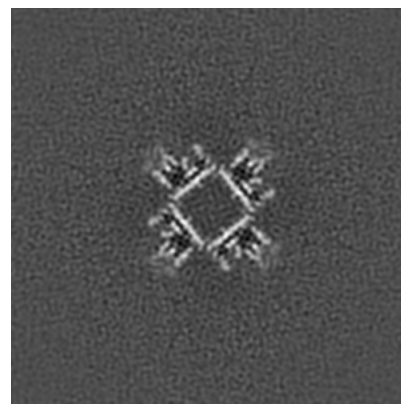
### 6.3.1 Primary map



X Index: 193



Y Index: 207

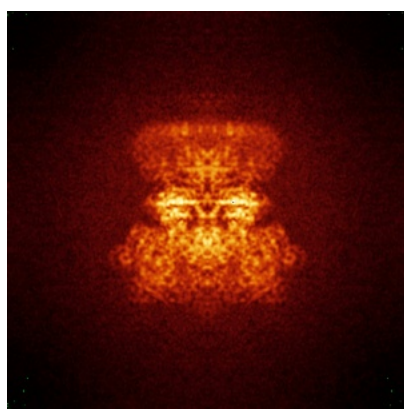


Z Index: 208

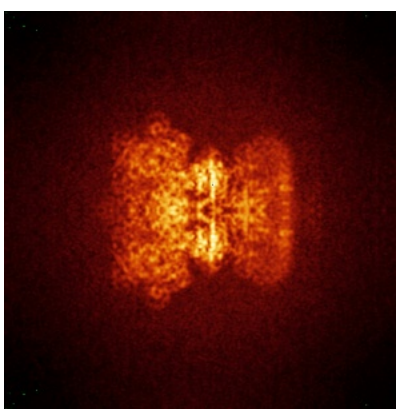
The images above show the largest variance slices of the map in three orthogonal directions.

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

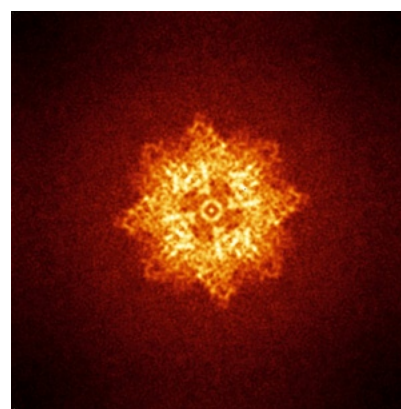
### 6.4.1 Primary map



X



Y

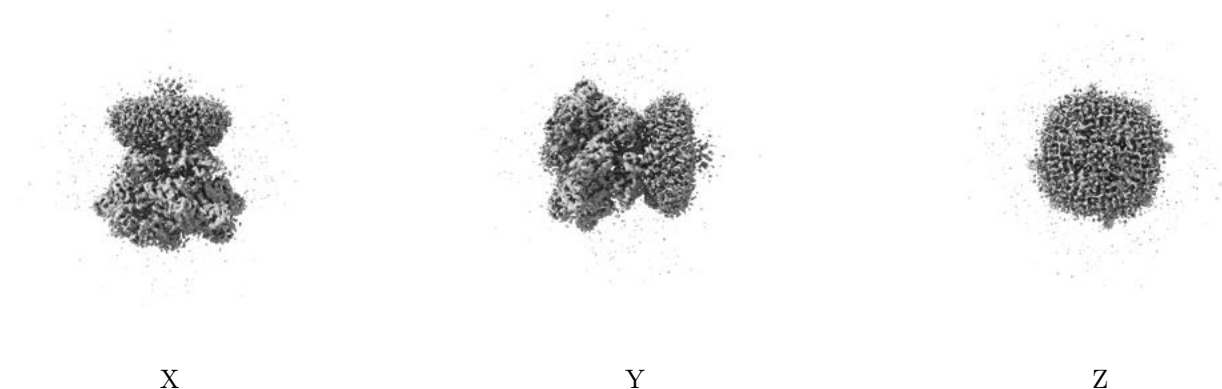


Z

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 1.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

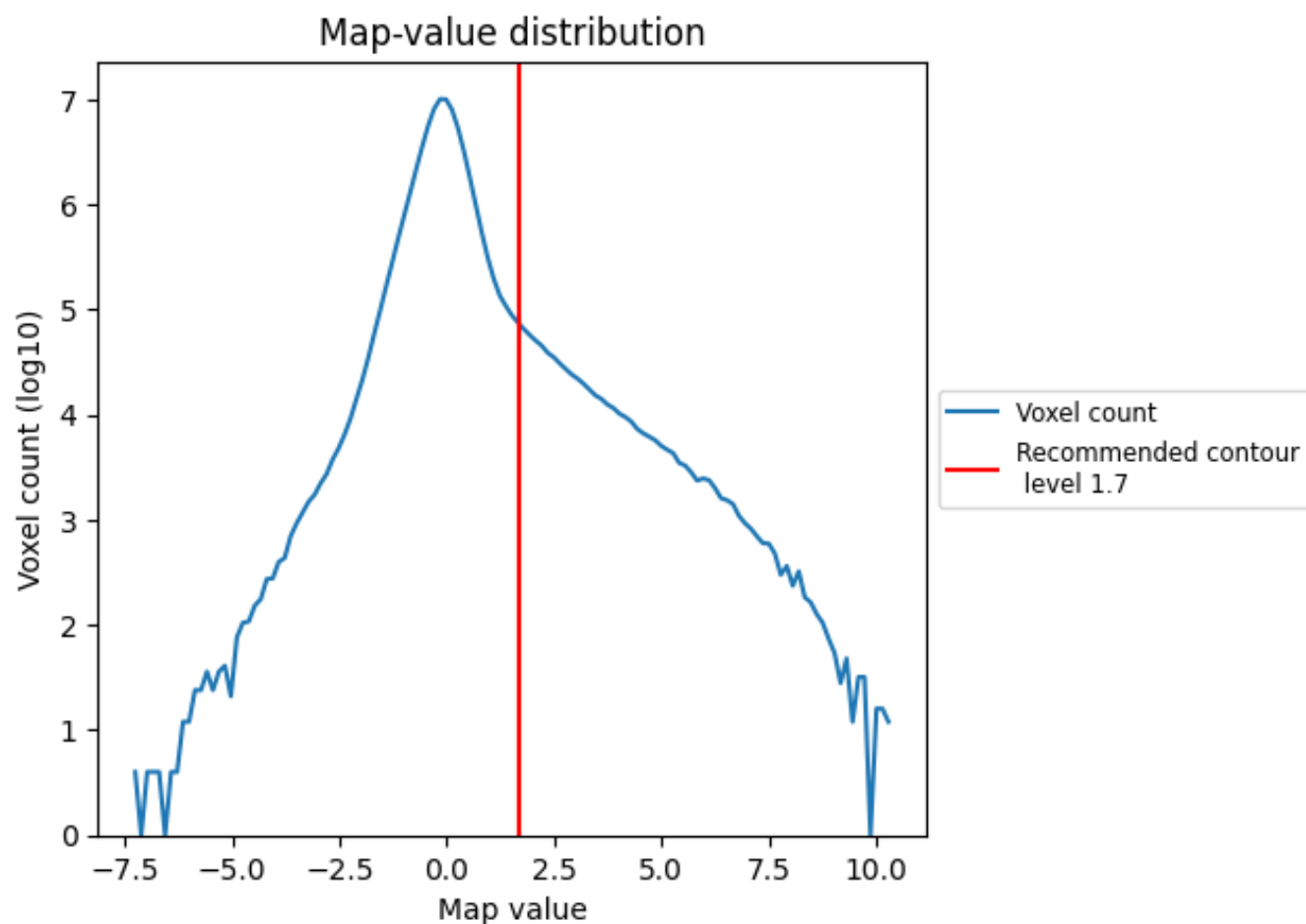
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

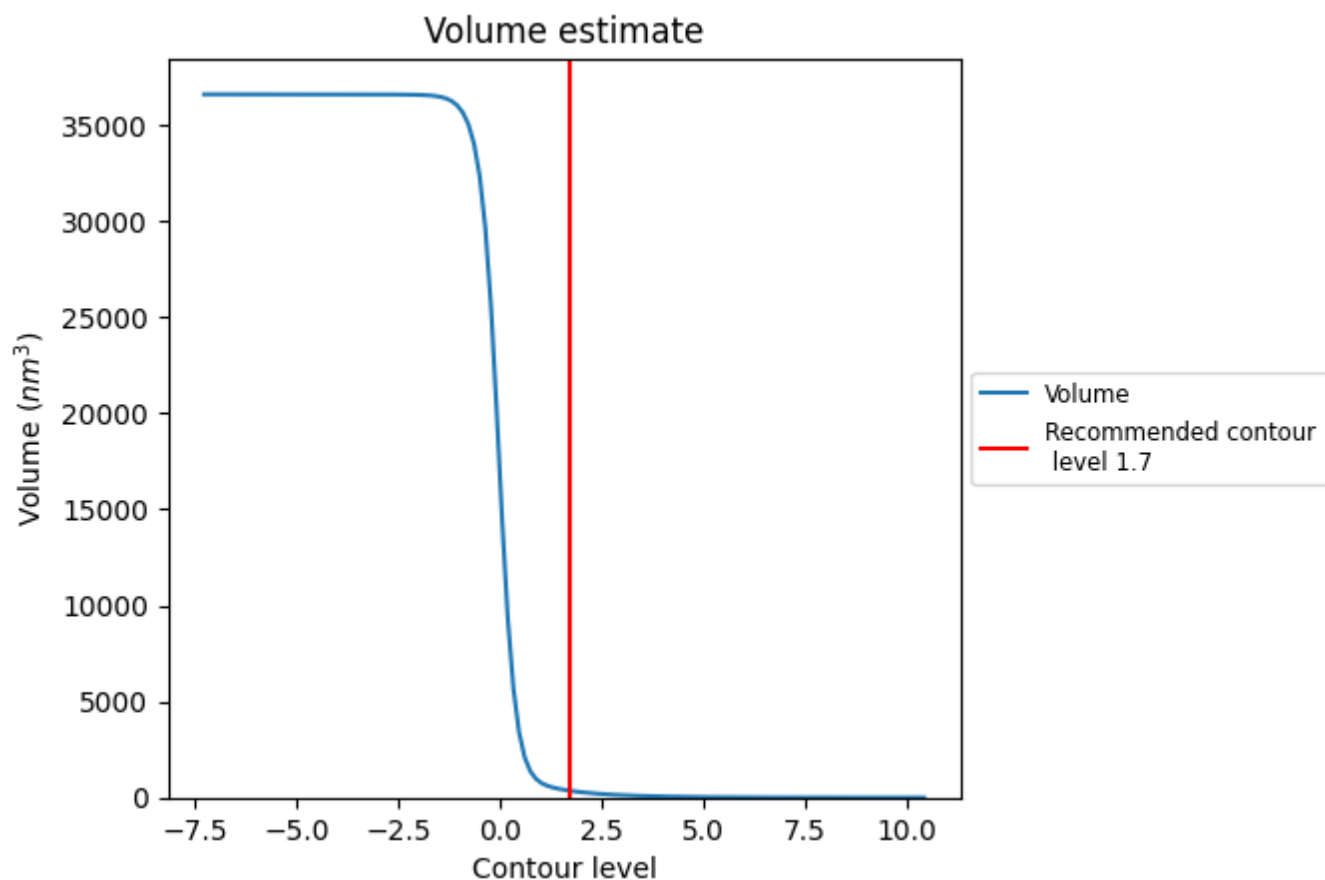
This section contains the results of statistical analysis of the map.

### 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.

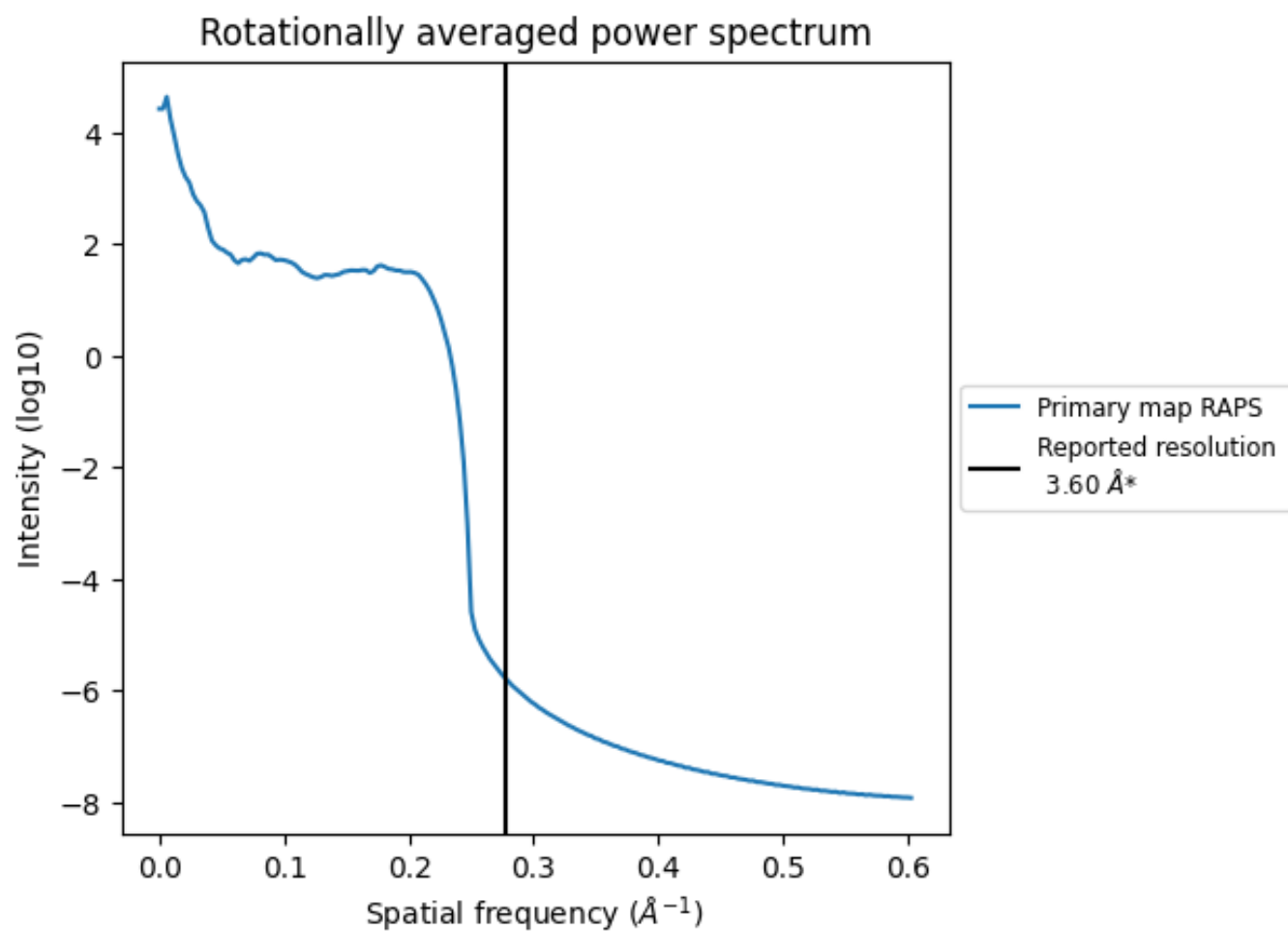
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 364 nm<sup>3</sup>; this corresponds to an approximate mass of 328 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 0.278 Å<sup>-1</sup>

## 8 Fourier-Shell correlation

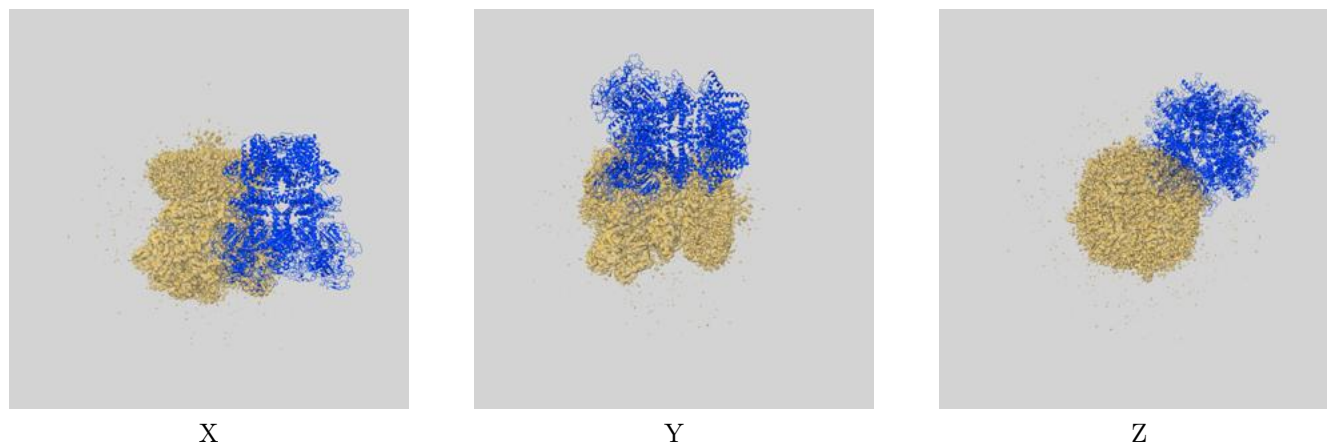
This section was not generated. No FSC curve or half-maps provided.



## 9 Map-model fit [i](#)

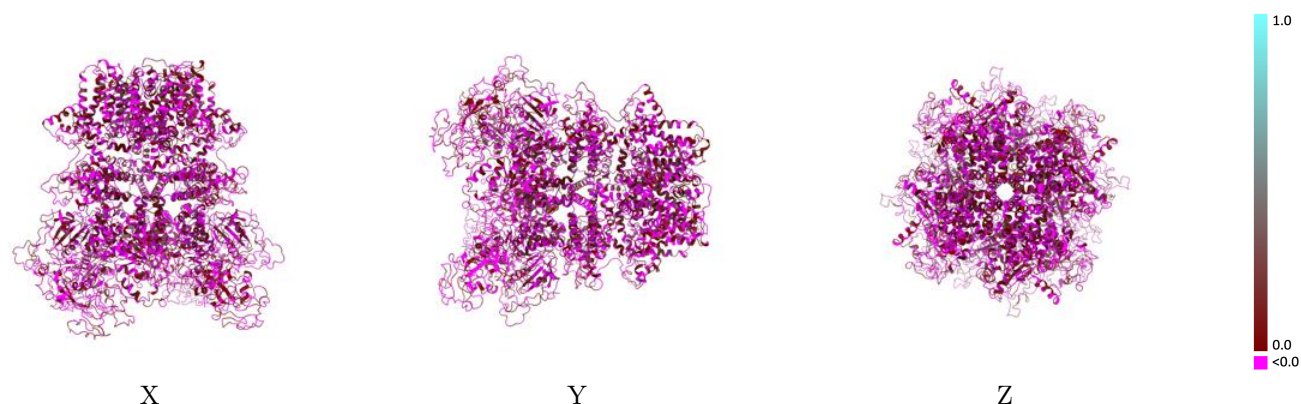
This section contains information regarding the fit between EMDB map EMD-9132 and PDB model 6MIX. Per-residue inclusion information can be found in [section 3](#) on [page 4](#).

### 9.1 Map-model overlay [i](#)



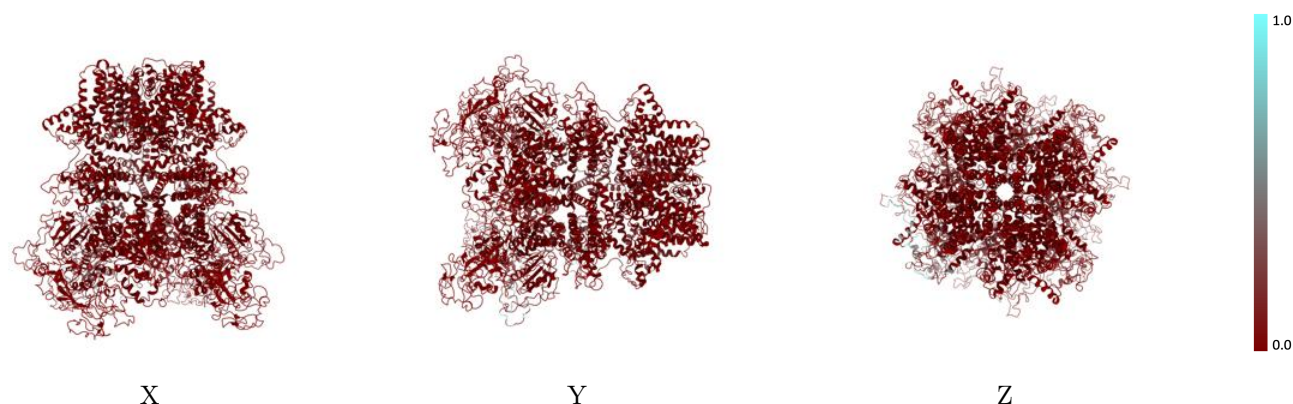
The images above show the 3D surface view of the map at the recommended contour level 1.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



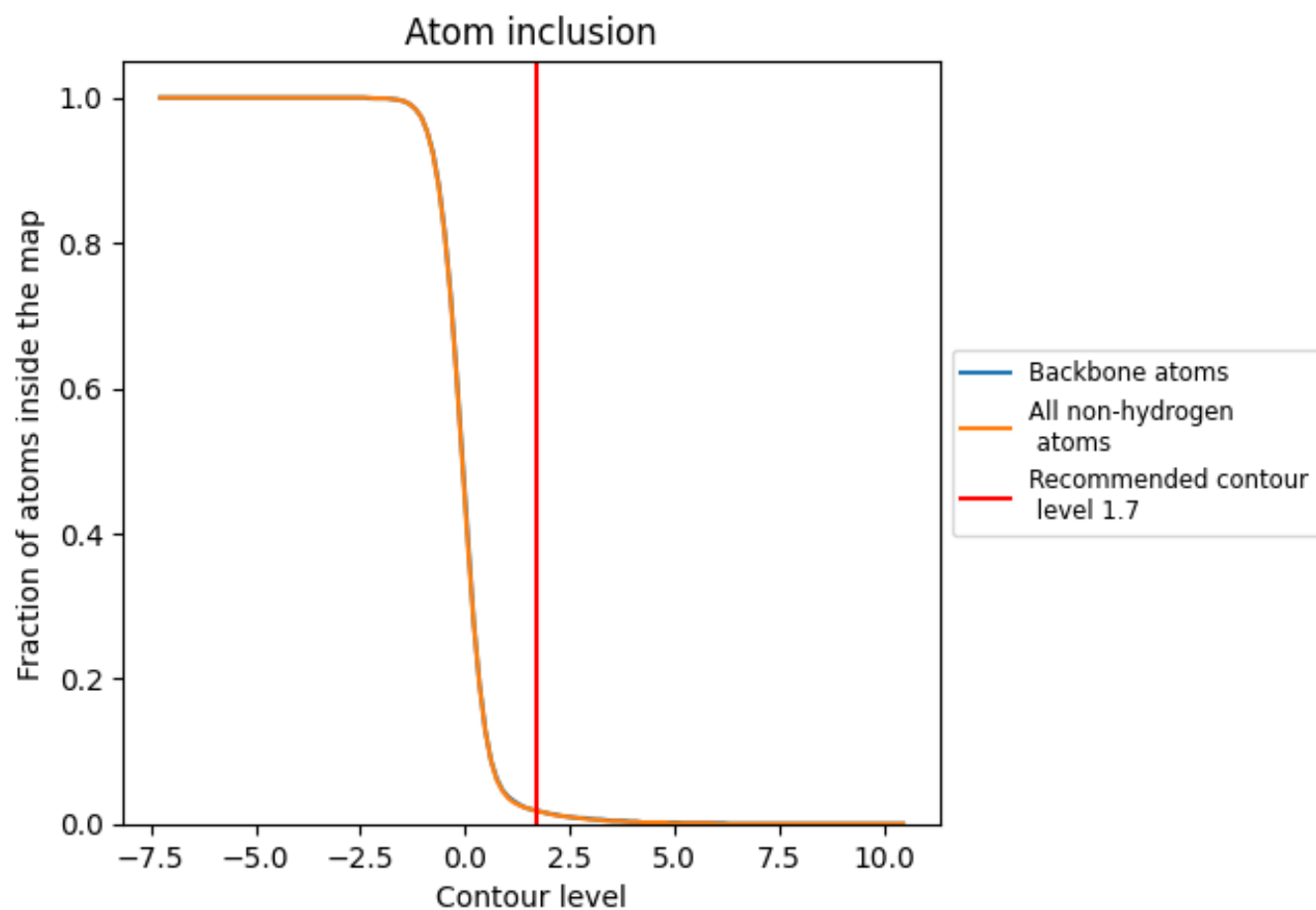
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (1.7).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 2% of all backbone atoms, 2% 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 (1.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.0180	<div></div> -0.0010
A	<div></div> 0.0610	<div></div> -0.0020
B	<div></div> 0.0000	<div></div> -0.0000
C	<div></div> 0.0000	<div></div> 0.0070
D	<div></div> 0.0090	<div></div> -0.0080

