



# Full wwPDB NMR Structure Validation Report ⓘ

Feb 15, 2022 – 07:56 AM EST

PDB ID : 1KMD  
Title : SOLUTION STRUCTURE OF THE VAM7P PX DOMAIN  
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Deposited on : 2001-12-14

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
ShiftChecker : 2.26  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.26

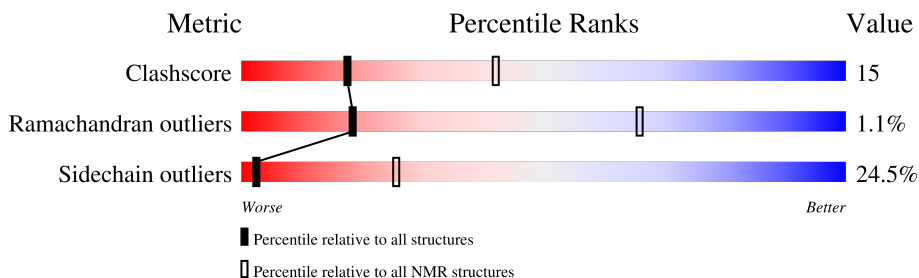
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment was not calculated.

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)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and 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  $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	117	

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 10 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:13-A:65, A:79-A:120 (95)	0.36	10

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 4 clusters and 2 single-model clusters were found.

Cluster number	Models
1	4, 6, 9, 10, 11, 17, 18, 20
2	2, 5, 7, 8, 16
3	13, 15, 19
4	1, 14
Single-model clusters	3; 12

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2042 atoms, of which 1024 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Vacuolar morphogenesis protein VAM7.

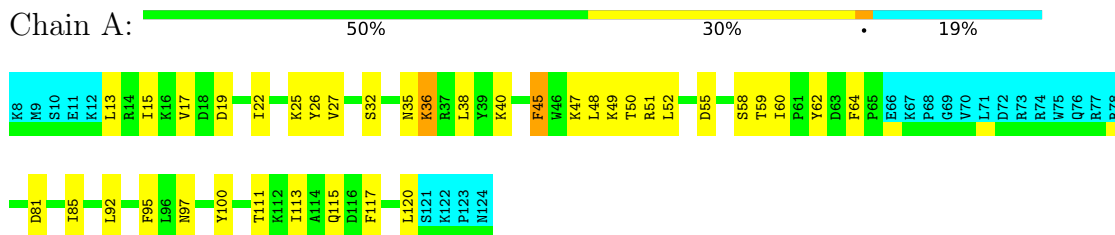
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	117	2042	648	1024	185	183	2	0

## 4 Residue-property plots [i](#)

### 4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Vacuolar morphogenesis protein VAM7

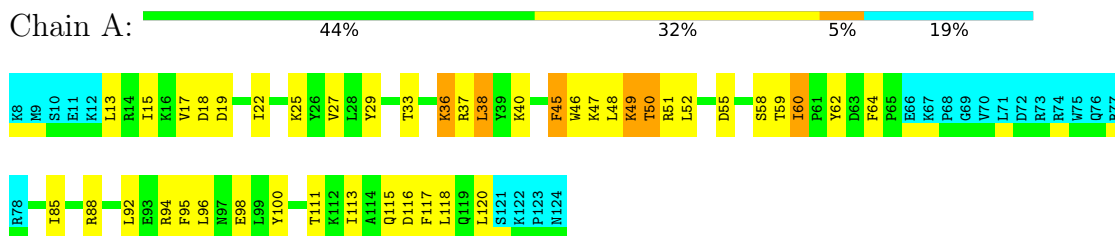


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

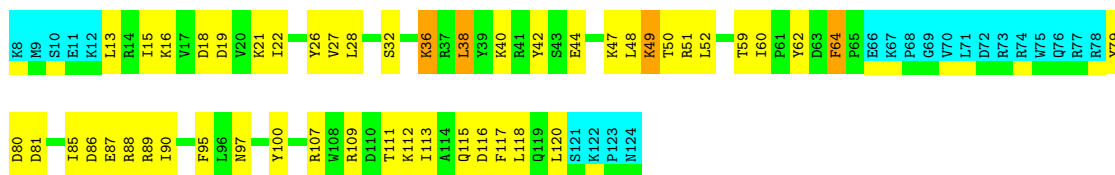
- Molecule 1: Vacuolar morphogenesis protein VAM7



#### 4.2.2 Score per residue for model 2

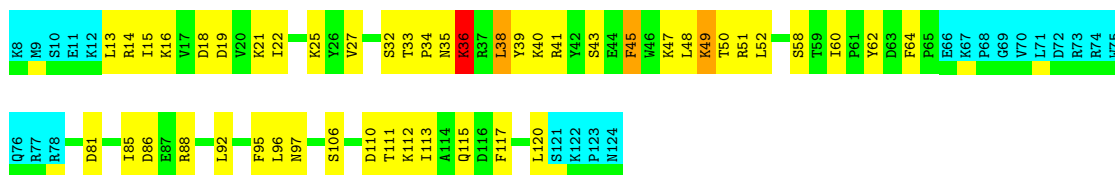
- Molecule 1: Vacuolar morphogenesis protein VAM7





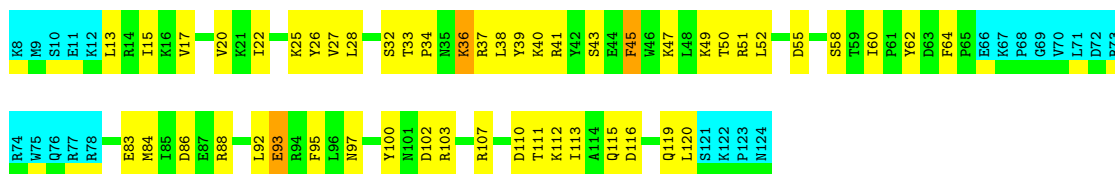
### 4.2.3 Score per residue for model 3

- Molecule 1: Vacuolar morphogenesis protein VAM7



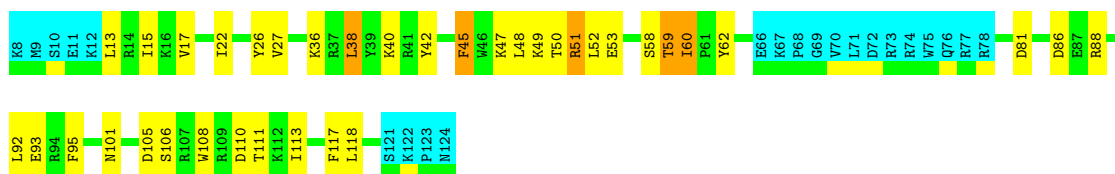
### 4.2.4 Score per residue for model 4

- Molecule 1: Vacuolar morphogenesis protein VAM7



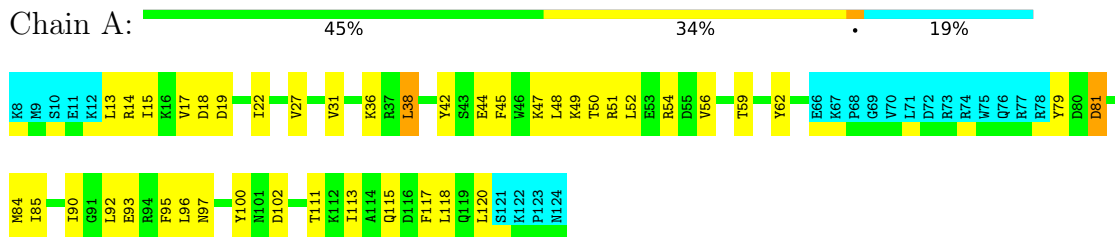
### 4.2.5 Score per residue for model 5

- Molecule 1: Vacuolar morphogenesis protein VAM7



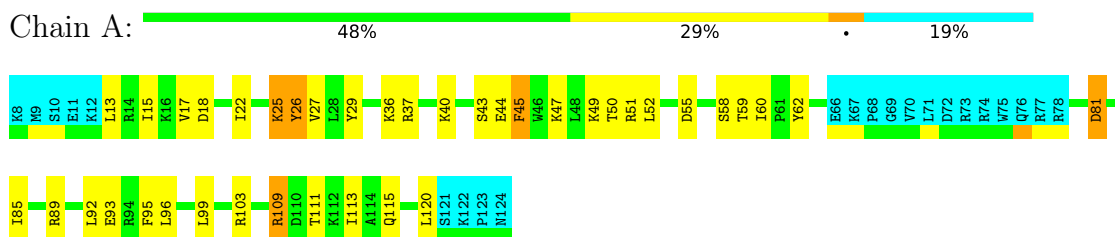
### 4.2.6 Score per residue for model 6

- Molecule 1: Vacuolar morphogenesis protein VAM7



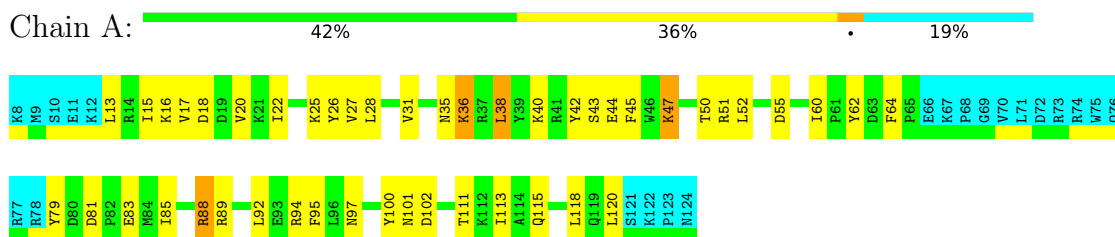
#### 4.2.7 Score per residue for model 7

- Molecule 1: Vacuolar morphogenesis protein VAM7



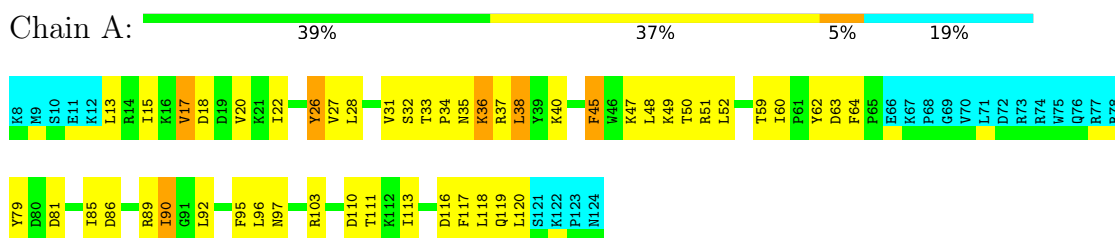
#### 4.2.8 Score per residue for model 8

- Molecule 1: Vacuolar morphogenesis protein VAM7



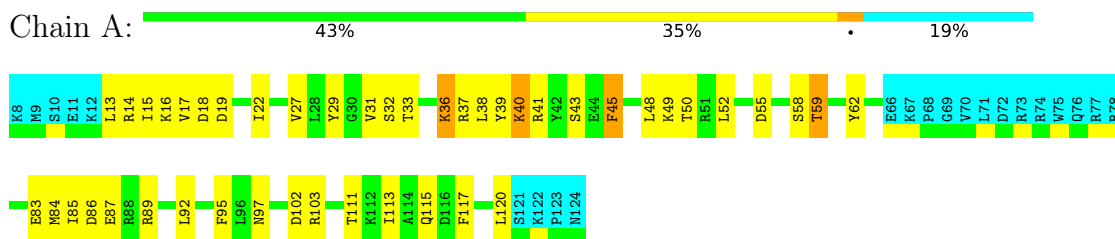
#### 4.2.9 Score per residue for model 9

- Molecule 1: Vacuolar morphogenesis protein VAM7



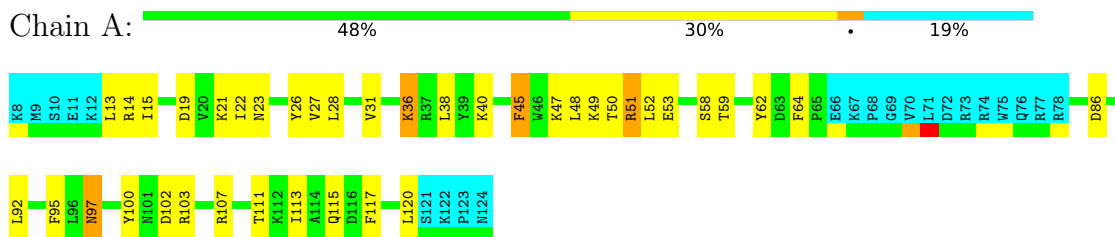
#### 4.2.10 Score per residue for model 10 (medoid)

- Molecule 1: Vacuolar morphogenesis protein VAM7



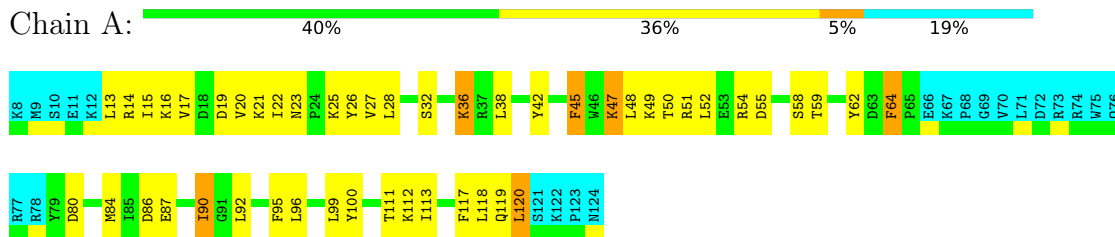
#### 4.2.11 Score per residue for model 11

- Molecule 1: Vacuolar morphogenesis protein VAM7



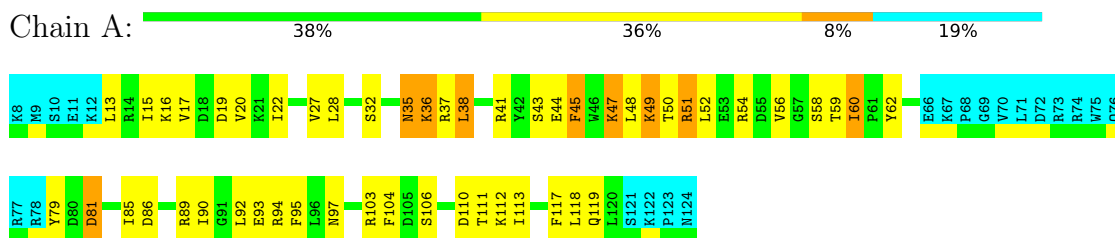
#### 4.2.12 Score per residue for model 12

- Molecule 1: Vacuolar morphogenesis protein VAM7



#### 4.2.13 Score per residue for model 13

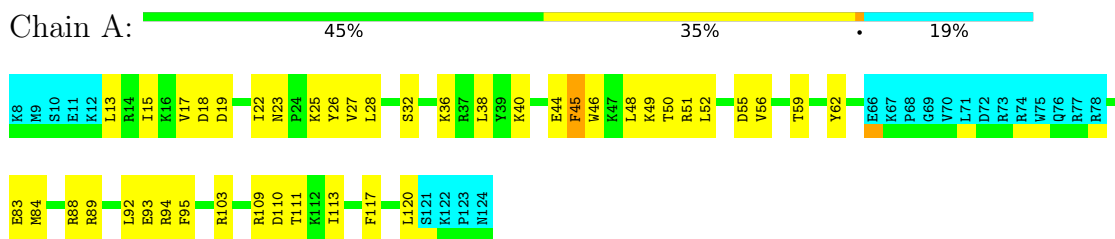
- Molecule 1: Vacuolar morphogenesis protein VAM7





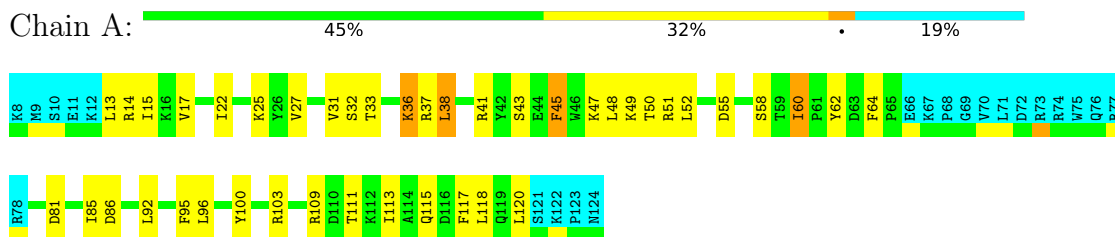
## 4.2.14 Score per residue for model 14

- Molecule 1: Vacuolar morphogenesis protein VAM7



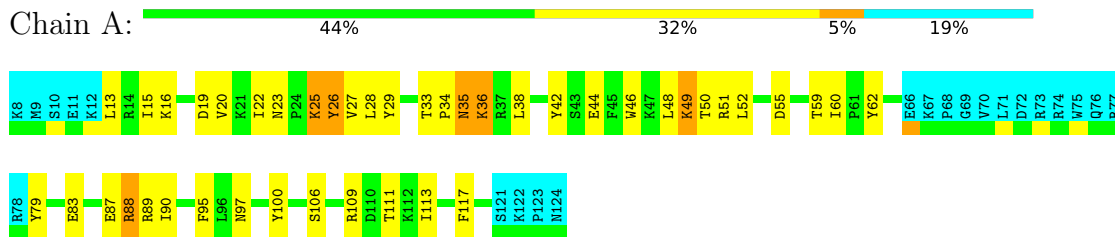
## 4.2.15 Score per residue for model 15

- Molecule 1: Vacuolar morphogenesis protein VAM7



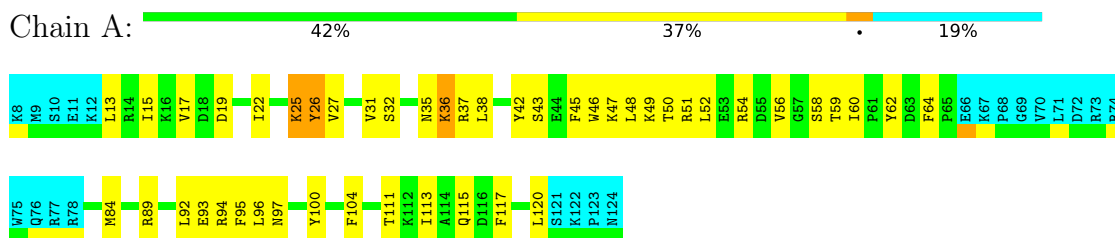
## 4.2.16 Score per residue for model 16

- Molecule 1: Vacuolar morphogenesis protein VAM7



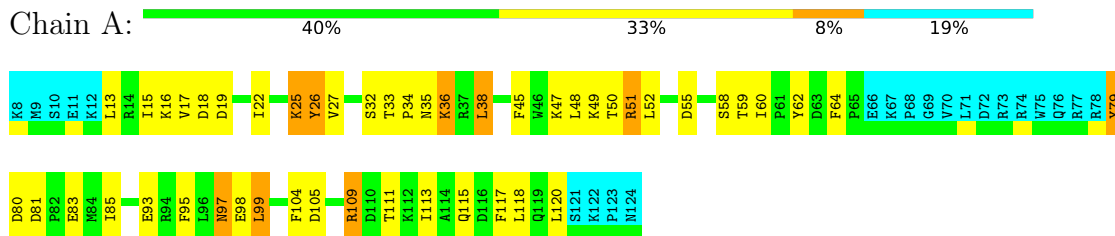
## 4.2.17 Score per residue for model 17

- Molecule 1: Vacuolar morphogenesis protein VAM7



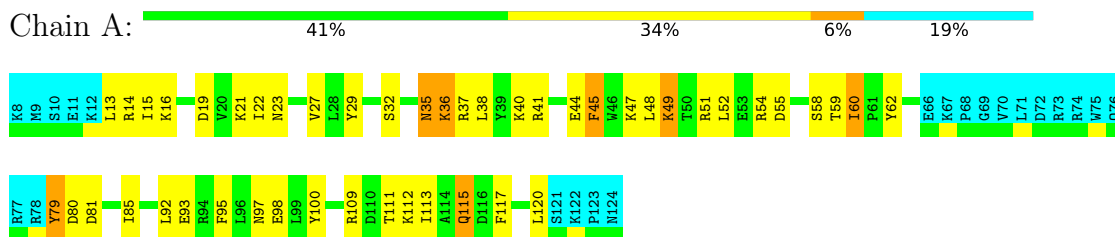
### 4.2.18 Score per residue for model 18

- Molecule 1: Vacuolar morphogenesis protein VAM7



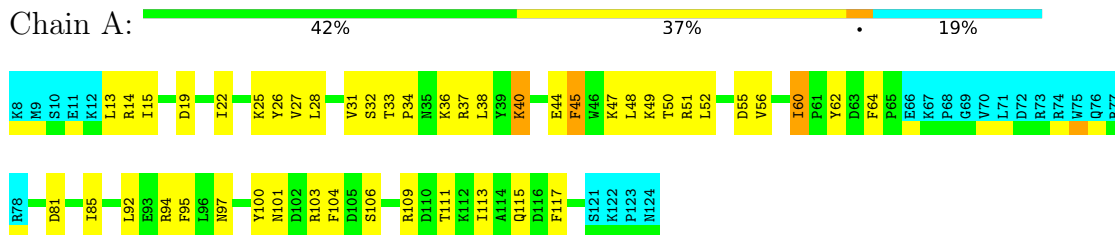
### 4.2.19 Score per residue for model 19

- Molecule 1: Vacuolar morphogenesis protein VAM7



### 4.2.20 Score per residue for model 20

- Molecule 1: Vacuolar morphogenesis protein VAM7



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *torsion angle dynamics*.

Of the 500 calculated structures, 20 were deposited, based on the following criterion: *STRUCTURES WITH THE MINIMAL NOE ENERGY*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
CNS	refinement	1.0

No chemical shift data was provided.

## 6 Model quality

### 6.1 Standard geometry

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 6.2 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 each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	827	822	822	25±4
All	All	16540	16440	16440	497

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 15.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:13:LEU:HD23	1:A:15:ILE:HD11	1.03	1.31	6	19
1:A:22:ILE:HD13	1:A:27:VAL:HG13	0.89	1.44	20	20
1:A:52:LEU:HD23	1:A:113:ILE:HD11	0.82	1.48	4	20
1:A:45:PHE:CD2	1:A:92:LEU:HD22	0.81	2.10	3	13
1:A:48:LEU:HD22	1:A:117:PHE:CD1	0.81	2.11	5	14
1:A:15:ILE:HD12	1:A:97:ASN:ND2	0.81	1.91	3	10
1:A:115:GLN:HA	1:A:120:LEU:HD12	0.76	1.55	7	13
1:A:52:LEU:CD2	1:A:113:ILE:HD11	0.76	2.10	15	17
1:A:22:ILE:HD13	1:A:27:VAL:CG1	0.73	2.11	13	11
1:A:51:ARG:HG2	1:A:113:ILE:HG21	0.73	1.60	3	8
1:A:81:ASP:O	1:A:85:ILE:HD12	0.73	1.83	15	8
1:A:48:LEU:HD12	1:A:113:ILE:HD12	0.70	1.62	15	7
1:A:26:TYR:CE1	1:A:28:LEU:HD21	0.69	2.22	2	7
1:A:81:ASP:C	1:A:85:ILE:HD12	0.68	2.09	2	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:22:ILE:CD1	1:A:27:VAL:HG13	0.68	2.19	18	5
1:A:13:LEU:HD23	1:A:15:ILE:CD1	0.67	2.15	9	13
1:A:15:ILE:HD13	1:A:96:LEU:HB2	0.67	1.66	7	5
1:A:51:ARG:HB2	1:A:113:ILE:HD13	0.67	1.66	15	1
1:A:48:LEU:HD22	1:A:117:PHE:CG	0.66	2.24	15	12
1:A:38:LEU:HD13	1:A:39:TYR:N	0.66	2.05	4	3
1:A:52:LEU:HG	1:A:113:ILE:HD11	0.65	1.68	15	3
1:A:52:LEU:CG	1:A:113:ILE:HD11	0.65	2.22	15	3
1:A:13:LEU:HD23	1:A:15:ILE:CG1	0.64	2.22	1	5
1:A:45:PHE:CE2	1:A:92:LEU:HD22	0.63	2.28	4	4
1:A:45:PHE:CG	1:A:92:LEU:HD22	0.63	2.28	7	7
1:A:13:LEU:HD22	1:A:100:TYR:HB2	0.62	1.72	12	10
1:A:15:ILE:HD12	1:A:97:ASN:OD1	0.61	1.95	16	4
1:A:49:LYS:HD3	1:A:60:ILE:HG21	0.61	1.72	13	2
1:A:87:GLU:HA	1:A:90:ILE:HD11	0.60	1.72	12	1
1:A:48:LEU:CD1	1:A:113:ILE:HD12	0.60	2.26	15	1
1:A:51:ARG:HB2	1:A:113:ILE:HD12	0.60	1.72	2	6
1:A:49:LYS:CD	1:A:60:ILE:HG21	0.60	2.27	2	6
1:A:27:VAL:HG21	1:A:79:TYR:O	0.60	1.96	13	6
1:A:31:VAL:HG21	1:A:40:LYS:NZ	0.60	2.12	10	2
1:A:15:ILE:HD12	1:A:97:ASN:HD22	0.59	1.55	8	5
1:A:45:PHE:CD1	1:A:92:LEU:HD22	0.59	2.32	17	3
1:A:96:LEU:HD22	1:A:100:TYR:CZ	0.59	2.32	15	1
1:A:20:VAL:HG13	1:A:28:LEU:O	0.59	1.97	9	6
1:A:31:VAL:HG21	1:A:40:LYS:HD2	0.58	1.72	9	1
1:A:96:LEU:HD21	1:A:117:PHE:CE2	0.58	2.33	12	1
1:A:13:LEU:HD22	1:A:100:TYR:CB	0.58	2.28	19	3
1:A:42:TYR:CE2	1:A:92:LEU:HD21	0.57	2.34	6	1
1:A:17:VAL:HG22	1:A:31:VAL:HG13	0.57	1.75	6	2
1:A:29:TYR:OH	1:A:85:ILE:HG23	0.57	2.00	10	4
1:A:60:ILE:HD11	1:A:62:TYR:CD2	0.56	2.35	16	8
1:A:49:LYS:HD2	1:A:60:ILE:HG21	0.56	1.77	1	2
1:A:38:LEU:HD11	1:A:119:GLN:CD	0.56	2.21	13	1
1:A:35:ASN:O	1:A:36:LYS:CB	0.56	2.54	3	7
1:A:38:LEU:HD13	1:A:118:LEU:HD22	0.56	1.77	8	2
1:A:51:ARG:CB	1:A:113:ILE:HD13	0.55	2.31	15	1
1:A:15:ILE:HG12	1:A:33:THR:HG22	0.55	1.77	3	4
1:A:35:ASN:O	1:A:36:LYS:CG	0.54	2.55	19	5
1:A:15:ILE:HG23	1:A:33:THR:HG22	0.54	1.80	9	2
1:A:62:TYR:CD2	1:A:95:PHE:CE2	0.54	2.95	10	16
1:A:38:LEU:HD13	1:A:118:LEU:HB3	0.52	1.82	1	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:42:TYR:CE2	1:A:64:PHE:CZ	0.52	2.98	17	1
1:A:96:LEU:HD22	1:A:100:TYR:CE2	0.51	2.40	15	1
1:A:13:LEU:HD22	1:A:100:TYR:HD2	0.51	1.65	1	1
1:A:62:TYR:CD2	1:A:95:PHE:CE1	0.51	2.98	16	2
1:A:15:ILE:HG23	1:A:33:THR:CG2	0.51	2.35	3	3
1:A:42:TYR:CZ	1:A:64:PHE:CZ	0.50	3.00	8	1
1:A:62:TYR:CD2	1:A:95:PHE:CD2	0.50	2.99	6	3
1:A:99:LEU:HD23	1:A:109:ARG:HB3	0.50	1.82	7	2
1:A:35:ASN:O	1:A:36:LYS:HB2	0.49	2.08	9	6
1:A:42:TYR:CE1	1:A:64:PHE:CE1	0.49	3.00	12	1
1:A:80:ASP:HA	1:A:85:ILE:HD11	0.49	1.83	18	1
1:A:42:TYR:CD2	1:A:92:LEU:HD11	0.49	2.41	6	1
1:A:13:LEU:CD2	1:A:15:ILE:HD11	0.49	2.38	2	2
1:A:62:TYR:CD2	1:A:95:PHE:CD1	0.49	3.00	12	2
1:A:49:LYS:HG2	1:A:60:ILE:HG21	0.48	1.86	17	2
1:A:48:LEU:HD22	1:A:117:PHE:CE1	0.48	2.44	1	1
1:A:42:TYR:CE2	1:A:64:PHE:CE1	0.48	3.02	2	2
1:A:38:LEU:HD11	1:A:119:GLN:OE1	0.48	2.09	13	1
1:A:25:LYS:CG	1:A:26:TYR:CD2	0.48	2.97	7	1
1:A:22:ILE:HG21	1:A:80:ASP:HB2	0.47	1.86	19	1
1:A:87:GLU:O	1:A:90:ILE:HD12	0.47	2.09	2	2
1:A:42:TYR:CZ	1:A:64:PHE:CE1	0.47	3.02	8	1
1:A:118:LEU:HB2	1:A:120:LEU:HD21	0.47	1.85	9	3
1:A:90:ILE:HD13	1:A:90:ILE:N	0.47	2.25	9	1
1:A:118:LEU:O	1:A:119:GLN:CG	0.47	2.63	12	2
1:A:42:TYR:CD1	1:A:92:LEU:HD21	0.46	2.45	17	1
1:A:52:LEU:HD23	1:A:113:ILE:CD1	0.46	2.39	12	2
1:A:31:VAL:HG23	1:A:40:LYS:HE2	0.46	1.86	20	1
1:A:90:ILE:H	1:A:90:ILE:HD13	0.45	1.71	12	1
1:A:15:ILE:HD13	1:A:96:LEU:CB	0.45	2.41	1	1
1:A:27:VAL:HG23	1:A:79:TYR:HD2	0.45	1.70	8	2
1:A:26:TYR:CD1	1:A:26:TYR:N	0.45	2.84	16	1
1:A:104:PHE:CD1	1:A:105:ASP:N	0.45	2.85	18	1
1:A:47:LYS:O	1:A:51:ARG:HG2	0.45	2.12	20	2
1:A:42:TYR:CD2	1:A:64:PHE:CZ	0.45	3.04	17	1
1:A:62:TYR:CG	1:A:95:PHE:CD2	0.44	3.05	6	5
1:A:52:LEU:O	1:A:56:VAL:HG23	0.44	2.12	20	5
1:A:59:THR:O	1:A:59:THR:HG22	0.44	2.12	5	2
1:A:25:LYS:HG2	1:A:26:TYR:CD2	0.44	2.48	7	2
1:A:25:LYS:CG	1:A:26:TYR:CE2	0.44	3.00	7	1
1:A:17:VAL:HG13	1:A:31:VAL:HA	0.44	1.90	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:62:TYR:CE2	1:A:95:PHE:O	0.43	2.71	6	1
1:A:25:LYS:HG3	1:A:26:TYR:CG	0.43	2.49	16	2
1:A:22:ILE:HD11	1:A:85:ILE:HD13	0.43	1.90	3	1
1:A:47:LYS:O	1:A:51:ARG:CG	0.43	2.67	15	3
1:A:20:VAL:HG22	1:A:29:TYR:CD2	0.43	2.48	16	1
1:A:60:ILE:HD11	1:A:62:TYR:CE2	0.43	2.48	7	4
1:A:60:ILE:O	1:A:60:ILE:HG23	0.43	2.13	4	3
1:A:60:ILE:HD12	1:A:108:TRP:CE3	0.43	2.49	5	1
1:A:51:ARG:HB3	1:A:113:ILE:HD12	0.43	1.91	7	4
1:A:42:TYR:CE2	1:A:88:ARG:NH1	0.43	2.87	8	1
1:A:47:LYS:O	1:A:51:ARG:HG3	0.42	2.15	6	1
1:A:42:TYR:CZ	1:A:88:ARG:NH1	0.42	2.86	16	1
1:A:46:TRP:CD1	1:A:46:TRP:O	0.42	2.72	17	1
1:A:96:LEU:HD21	1:A:117:PHE:HE2	0.42	1.74	6	1
1:A:64:PHE:CD1	1:A:64:PHE:N	0.42	2.86	20	1
1:A:13:LEU:HD22	1:A:100:TYR:CD2	0.42	2.48	1	1
1:A:42:TYR:CE2	1:A:88:ARG:CZ	0.42	3.02	5	1
1:A:96:LEU:HD22	1:A:100:TYR:OH	0.42	2.14	15	1
1:A:62:TYR:CZ	1:A:95:PHE:O	0.42	2.73	17	6
1:A:48:LEU:HD12	1:A:113:ILE:CD1	0.42	2.43	11	1
1:A:33:THR:HB	1:A:34:PRO:HD2	0.42	1.92	18	5
1:A:27:VAL:HG23	1:A:79:TYR:CD2	0.42	2.49	8	1
1:A:90:ILE:HD12	1:A:90:ILE:C	0.42	2.35	13	1
1:A:38:LEU:HD21	1:A:119:GLN:HE21	0.42	1.74	4	1
1:A:15:ILE:CG2	1:A:31:VAL:CG1	0.41	2.98	10	2
1:A:79:TYR:CE2	1:A:80:ASP:OD1	0.41	2.73	2	1
1:A:106:SER:O	1:A:110:ASP:N	0.41	2.53	13	2
1:A:25:LYS:HG2	1:A:26:TYR:CE2	0.41	2.50	7	2
1:A:64:PHE:O	1:A:64:PHE:CD2	0.41	2.73	18	1
1:A:79:TYR:CE2	1:A:80:ASP:OD2	0.41	2.73	2	1
1:A:62:TYR:CZ	1:A:95:PHE:HA	0.41	2.50	12	2
1:A:33:THR:O	1:A:36:LYS:N	0.41	2.54	3	1
1:A:45:PHE:CD2	1:A:92:LEU:CD2	0.41	3.00	4	1
1:A:95:PHE:O	1:A:95:PHE:CD1	0.41	2.74	1	2
1:A:42:TYR:CE2	1:A:88:ARG:NE	0.40	2.89	5	1
1:A:33:THR:HB	1:A:34:PRO:CD	0.40	2.46	16	1
1:A:25:LYS:HG3	1:A:26:TYR:CD2	0.40	2.51	18	1
1:A:42:TYR:CD2	1:A:88:ARG:NH2	0.40	2.90	8	1
1:A:46:TRP:O	1:A:50:THR:HG22	0.40	2.16	1	1
1:A:17:VAL:HG23	1:A:93:GLU:CG	0.40	2.47	4	1
1:A:22:ILE:HG21	1:A:80:ASP:CB	0.40	2.47	12	1

## 6.3 Torsion angles [i](#)

### 6.3.1 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 NMR 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	95/117 (81%)	85±1 (90±1%)	9±1 (9±1%)	1±0 (1±0%)	18	66
All	All	1900/2340 (81%)	1708 (90%)	171 (9%)	21 (1%)	18	66

All 2 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	36	LYS	20
1	A	49	LYS	1

### 6.3.2 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 NMR 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	91/112 (81%)	69±4 (76±4%)	22±4 (24±4%)	2	25
All	All	1820/2240 (81%)	1375 (76%)	445 (24%)	2	25

All 60 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	111	THR	20
1	A	50	THR	19
1	A	38	LEU	17
1	A	49	LYS	16
1	A	45	PHE	15
1	A	59	THR	15
1	A	19	ASP	14
1	A	47	LYS	14

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Mol	Chain	Res	Type	Models (Total)
1	A	58	SER	13
1	A	32	SER	13
1	A	25	LYS	12
1	A	55	ASP	12
1	A	40	LYS	11
1	A	17	VAL	10
1	A	18	ASP	10
1	A	37	ARG	10
1	A	86	ASP	10
1	A	36	LYS	9
1	A	16	LYS	9
1	A	44	GLU	9
1	A	89	ARG	9
1	A	93	GLU	9
1	A	103	ARG	9
1	A	64	PHE	8
1	A	109	ARG	8
1	A	14	ARG	8
1	A	43	SER	8
1	A	60	ILE	7
1	A	88	ARG	7
1	A	26	TYR	7
1	A	94	ARG	6
1	A	112	LYS	6
1	A	41	ARG	6
1	A	81	ASP	6
1	A	83	GLU	6
1	A	84	MET	6
1	A	21	LYS	5
1	A	102	ASP	5
1	A	51	ARG	5
1	A	54	ARG	5
1	A	23	ASN	5
1	A	116	ASP	4
1	A	110	ASP	4
1	A	35	ASN	4
1	A	98	GLU	3
1	A	107	ARG	3
1	A	106	SER	3
1	A	101	ASN	3
1	A	90	ILE	3
1	A	104	PHE	3

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Mol	Chain	Res	Type	Models (Total)
1	A	53	GLU	2
1	A	97	ASN	2
1	A	99	LEU	2
1	A	120	LEU	2
1	A	79	TYR	2
1	A	115	GLN	2
1	A	105	ASP	1
1	A	63	ASP	1
1	A	87	GLU	1
1	A	118	LEU	1

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

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

There are no ligands in this entry.

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

There are no such molecules in this entry.

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

There are no chain breaks in this entry.

## 7 Chemical shift validation

No chemical shift data were provided