

# wwPDB X-ray Structure Validation Summary Report (i)

#### Oct 2, 2023 – 12:58 AM EDT

PDB ID : 6MJC

Title: Structure of Candida glabrata Csm1:Dsn1(43-67DD) complex

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Deposited on : 2018-09-20

Resolution : 1.79 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

MolProbity : FAILED Xtriage (Phenix) : 1.13 EDS : FAILED

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

Validation Pipeline (wwPDB-VP) : 2.35.1

## 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 1.79 Å.

There are no overall percentile quality scores available for this entry.

MolProbity and EDS failed to run properly - the sequence quality summary graphics cannot be shown.



# 2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 2189 atoms, of which 1050 are hydrogens and 0 are deuteriums.

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

• Molecule 1 is a protein called Monopolin complex subunit CSM1.

Mol	Chain	Residues			Aton	ns			ZeroOcc	AltConf	Trace
1	A	106	Total 1701	C 554	H 843	N 139	O 162	S 3	0	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	66	SER	-	expression tag	UNP A0A0W0CH22
A	67	ASN	-	expression tag	UNP A0A0W0CH22
A	68	ALA	-	expression tag	UNP A0A0W0CH22

• Molecule 2 is a protein called Kinetochore-associated protein DSN1.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace			
2	В	28	Total 429	C 133	H 207	N 44	O 44	S 1	0	0	0

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	40	SER	=	expression tag	UNP A0A0W0D923
В	41	ASN	=	expression tag	UNP A0A0W0D923
В	42	ALA	-	expression tag	UNP A0A0W0D923
В	66	ASP	SER	engineered mutation	UNP A0A0W0D923
В	67	ASP	SER	engineered mutation	UNP A0A0W0D923

• Molecule 3 is water.

Mo	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	43	Total O 43 43	0	0
3	В	16	Total O 16 16	0	0



MolProbity and EDS failed to run properly - this section is therefore empty.



## 3 Data and refinement statistics (i)

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants	105.06Å $105.06$ Å $125.12$ Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $120.00^{\circ}$	Depositor
Resolution (Å)	52.53 - 1.79	Depositor
% Data completeness	99.5 (52.53-1.79)	Depositor
(in resolution range)	,	-
$R_{merge}$	0.03	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.51  (at  1.80Å)	Xtriage
Refinement program	PHENIX (1.13_2998: ???)	Depositor
$R, R_{free}$	0.199 , $0.223$	Depositor
Wilson B-factor $(Å^2)$	45.8	Xtriage
Anisotropy	0.005	Xtriage
L-test for twinning <sup>2</sup>	$< L > = 0.50, < L^2> = 0.33$	Xtriage
	0.026  for  -2/3 *h-1/3 *k+2/3 *l,-1/3 *h-2/3 *k-	
	2/3*l,2/3*h-2/3*k+1/3*l 0.015 for -h,1/3*h-1/3*k+2/3*l,2/3*h+4/3*	
Estimated twinning fraction		Xtriage
0	k+1/3*1	
	0.012 for $-1/3*h+1/3*k-2/3*l,-k,-4/3*h-2/3$	
Total number of atoms	*k+1/3*l 2189	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	72.0	wwPDB-VP
Average D, all atoms (A)	12.0	WWIDD-VI

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.20% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of <|L|>,  $<L^2>$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

## 4 Model quality (i)

#### 4.1 Standard geometry (i)

MolProbity failed to run properly - this section is therefore empty.

#### 4.2 Too-close contacts (i)

MolProbity failed to run properly - this section is therefore empty.

#### 4.3 Torsion angles (i)

#### 4.3.1 Protein backbone (i)

MolProbity failed to run properly - this section is therefore empty.

#### 4.3.2 Protein sidechains (i)

MolProbity failed to run properly - this section is therefore empty.

#### 4.3.3 RNA (i)

MolProbity failed to run properly - this section is therefore empty.

### 4.4 Non-standard residues in protein, DNA, RNA chains (i)

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

### 4.5 Carbohydrates (i)

There are no monosaccharides in this entry.

### 4.6 Ligand geometry (i)

There are no ligands in this entry.

### 4.7 Other polymers (i)

There are no such residues in this entry.



## 4.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



## 5 Fit of model and data (i)

#### 5.1 Protein, DNA and RNA chains (i)

EDS failed to run properly - this section is therefore empty.

#### 5.2 Non-standard residues in protein, DNA, RNA chains (i)

EDS failed to run properly - this section is therefore empty.

#### 5.3 Carbohydrates (i)

EDS failed to run properly - this section is therefore empty.

#### 5.4 Ligands (i)

EDS failed to run properly - this section is therefore empty.

### 5.5 Other polymers (i)

EDS failed to run properly - this section is therefore empty.

