



Full wwPDB EM Validation Report ⓘ

Apr 5, 2026 – 02:30 PM UTC

EMDB ID : EMD-0977
Title : Cyanobacterial PSI Monomer from *T. elongatus* by Single Particle CRYO-EM
at 3.2 Å Resolution
Authors : Kurisu, G.; Coruh, O.
Deposited on : 2020-01-24
Resolution : 3.20 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/EMMapValidationReportHelp>

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 : **FAILED**
Validation Pipeline (wwPDB-VP) : 2.49

1 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	46105	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	JEOL CRYO ARM 200	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.34	Depositor
Minimum defocus (nm)	0.5	Depositor
Maximum defocus (nm)	3.5	Depositor
Magnification	56497.0	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor