



## Full wwPDB EM Validation Report ⓘ

Sep 3, 2022 – 08:14 am BST

EMDB ID : EMD-14500  
Title : SpCas9 bound to 10-nucleotide complementary DNA substrate  
Authors : Pacesa, M.; Jinek, M.  
Deposited on : 2022-03-04  
Resolution : 3.81 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](mailto: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>.

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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) : 2.30

# 1 Experimental information

| Property                             | Value              | Source    |
|--------------------------------------|--------------------|-----------|
| EM reconstruction method             | SINGLE PARTICLE    | Depositor |
| Imposed symmetry                     | Not Provided       |           |
| Number of particles used             | 127523             | Depositor |
| Resolution determination method      | FSC 0.143 CUT-OFF  | Depositor |
| CTF correction method                | Not provided       |           |
| Microscope                           | FEI TITAN KRIOS    | Depositor |
| Voltage (kV)                         | 300                | Depositor |
| Electron dose ( $e^-/\text{\AA}^2$ ) | 66.22              | Depositor |
| Minimum defocus (nm)                 | 1.0                | Depositor |
| Maximum defocus (nm)                 | 2.4                | Depositor |
| Magnification                        | Not provided       |           |
| Image detector                       | GATAN K3 (6k x 4k) | Depositor |