

Summary of integrative structure determination of Structural Basis for Mis18 Complex Assembly (PDB ID: 9A8G, PDB-Dev ID: PDBDEV_00000380)

1. Model Composition	
Entry composition	<ul style="list-style-type: none"> - Protein Mis18-alpha: Chain D (114 residues) - Protein Mis18-alpha: Chain E (76 residues) - Protein Mis18-alpha: Chain A (114 residues) - Protein Mis18-alpha: Chain E (114 residues) - Protein Mis18-alpha: Chain F (43 residues) - Protein Mis18-alpha: Chain F (114 residues) - Protein Mis18-beta: Chain B (42 residues) - Protein Mis18-beta: Chain B (187 residues) - Protein Mis18-alpha: Chain D (43 residues) - Protein Mis18-alpha: Chain F (76 residues) - Protein Mis18-beta: Chain G (42 residues) - Mis18-binding protein 1: Chain H (130 residues) - Mis18-binding protein 1: Chain C (130 residues) - Protein Mis18-alpha: Chain A (76 residues) - Protein Mis18-alpha: Chain D (76 residues) - Protein Mis18-beta: Chain G (187 residues) - Protein Mis18-alpha: Chain E (43 residues) - Protein Mis18-alpha: Chain A (43 residues)
Datasets used for modeling	<ul style="list-style-type: none"> - 3DEM volume, EMDB: EMD-50220 - 3DEM volume, Not available - 3DEM volume, Not available - Crosslinking-MS data, Linker name and number of cross-links: sulfo-SDA, 46 cross-links - Experimental model, PDB ID: 7sfz - Experimental model, PDB ID: 7sfy - De Novo model, AlphaFoldDB: AF-Q9NYP9-F1 - De Novo model, AlphaFoldDB: AF-O43482-F1 - De Novo model, AlphaFoldDB: AF-Q6P0N0-F1
2. Representation	
Resolution	Atomic; Coarse-grained: 1 residue(s) per bead
Number of rigid bodies, flexible units	0, 18
Flexible units	<ul style="list-style-type: none"> - A: 1-76, 77-190, 191-233 - B: 1-187, 188-229 - G: 1-1871-187 - D: 1-76, 77-190, 191-233 - E: 1-76, 77-190, 191-233 - F: 1-76, 77-190, 191-233 - C: 1-130 - H: 1-130
Structural coverage (rigid bodies)	100%
3. Restraints	
Physical principles	Information about physical principles was not provided

Experimental data	<ul style="list-style-type: none"> - 3 unique EM3DRestraint: manual - 1 unique CrossLinkRestraint: sulfo-SDA, 46 cross-links - 1 unique CrossLinkRestraint: EDC, 185 cross-links
4. Validation	
Number of ensembles	0
Number of models in ensembles	Not applicable
Number of deposited models	1
Model precision (uncertainty of models)	Model precision can not be calculated with one structure
Data quality	Data quality has not been assessed
Model quality: assessment of atomic segments	Model-1: Clashscore = 49.37, Number of Ramachandran outliers = 7, Number of sidechain outliers = 21
Model quality: assessment of excluded volume	Not applicable
Fit to data used for modeling	Fit of model to information used to compute it has not been determined
Fit to data used for validation	Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
1. Method	docking
Name	None
Software	<ul style="list-style-type: none"> - AlphaFold-Multimer (version 2.2) - CombDock (version Not available)