Summary of integrative structure determination of Structural Basis for Mis18 Complex Assembly (PDB ID: 9A8G | pdb_00009a8g, PDB-Dev ID: PDBDEV_00000380)

1. Model Composition	
1.1. Entry composition	- Protein Mis18-alpha: chain(s) A, D, E, F (233 residues) - Protein Mis18-beta: chain(s) B, G (229 residues) - Mis18-binding protein 1: chain(s) C, H (130 residues)
1.2. Datasets used for modeling	- Crosslinking-MS data, PRIDE: PXD047345 - 3DEM volume, EMDB: EMD-50218 - Experimental model, PDB: pdb_00007sfz - Experimental model, PDB: pdb_00007sfy - De Novo model, AlphaFoldDB: AF-Q9NYP9-F1 - 3DEM volume, EMDB: EMD-50219 - 3DEM volume, EMDB: EMD-50220 - De Novo model, AlphaFoldDB: AF-O43482-F1 - De Novo model, AlphaFoldDB: AF-Q6P0N0-F1
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	0, 18
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 3 unique EM3DRestraint: manual - 1 unique CrossLinkRestraint: sulfo-SDA, 46 crosslinks - 1 unique CrossLinkRestraint: EDC, 185 crosslinks
4. Validation	
4.2. Number of ensembles	0
4.3. Number of models in ensembles	Not applicable
4.4. Number of deposited models	1
4.5. Model precision	Not available
4.6. Data quality	- EMD-50218: resolution is 27.30 Å - EMD-50219: resolution is 24.80 Å - EMD-50220: resolution is 27.80 Å
4.7. Model quality: assessment of atomic segments	- Clashscore: 49.39 - Ramachandran outliers: 7 - Sidechain outliers: 21

4.8. Fit to data used for modeling	- Satisfaction of crosslinks: 82.05% - 3DEM q-score(s): 0.03-0.05 - 3DEM atom inclusion score(s): 0.94-0.98
4.9. 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. 5.1. Method name	docking
5.5. Software	- AlphaFold-Multimer (version 2.2) - CombDock (version Not available)