Summary of integrative structure determination of Integrative model of Nup116 knockout (at 37C) yeast nuclear pore complex (PDB ID: 9A0H | pdb_00009a0h, PDB-Dev ID: PDBDEV_00000053)

1. Model Composition	
1.1. Entry composition	- Nic96: chain(s) A1 (839 residues) - Nup188: chain(s) B1 (1655 residues) - Nup157: chain(s) D1 (1391 residues) - Nup133: chain(s) K1 (1157 residues) - Nup84: chain(s) L1 (726 residues) - Nup145c: chain(s) M1 (712 residues) - Sec13: chain(s) N1 (297 residues) - Seh1: chain(s) O1 (349 residues) - Nup85: chain(s) P1 (744 residues) - Nup120: chain(s) R1 (1037 residues)
1.2. Datasets used for modeling	- 3DEM volume, EMDB: EMD-10661 - 3DEM volume, Zenodo: 10.5281/zenodo.3820319 - 3DEM volume, Zenodo: 10.5281/zenodo.3820319 - Integrative model, PDB: pdb_00009a0f - Integrative model, PDB: pdb_00009a0f - Other, Not available: https://doi.org/10.1038/nsmb1194 - Other, Not available: https://doi.org/10.1038/nature26003
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	0, 10
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique InnerSurfaceGeometricRestraint: None
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-10661: resolution is 50.00 Å
4.7. Model quality: assessment of atomic segments	- Clashscore: 0.00 - Ramachandran outliers: 264 - Sidechain outliers: 399

4.8. Fit to data used for modeling	- 3DEM q-score(s): 0.03 - 3DEM atom inclusion score(s): 0.90
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	Monte Carlo simulated annealing optimization of multiple rigid bodies with IMP
5.2. Method type	Monte Carlo simulated annealing optimization for NR Y-complex and IR asymmetric unit (outer nuclear copy)
5.5. Software	Integrative Modeling Platform (IMP) (version 2.9.0)