Summary of integrative structure determination of Modeling of the ciliary Intraflagellar transport-A complex (PDB ID: 9A2D | pdb_00009a2d, PDB-Dev ID: PDBDEV_00000156)

1. Model Composition	
1.1. Entry composition	- Intraflagellar transport protein 43: chain(s) A (146 residues) - Intraflagellar transport protein 121: chain(s) B (1195 residues) - Intraflagellar transport protein 122: chain(s) C (1251 residues) - Intraflagellar transport protein 139: chain(s) D (1334 residues) - Intraflagellar transport protein 140: chain(s) E (1407 residues) - Intraflagellar transport protein 144: chain(s) F (1387 residues)
1.2. Datasets used for modeling	- De Novo model, Zenodo: 10.5281/zenodo.7222413 - Crosslinking-MS data, Zenodo: 10.5281/zenodo.7222413 - 3DEM volume, EMDB: EMD-26791
2. Representation	
2.1. Number of representations	1
2.2. Scale	Coarse-grained: 1 residue(s) per bead
2.3. Number of rigid and flexible segments	23, 3
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: DSSO, 100 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-26791: resolution is 23.00 Å
4.7. Model quality: assessment of atomic segments	- Clashscore: 5.21 - Ramachandran outliers: 0 - Sidechain outliers: 0
4.8. Fit to data used for modeling	- 3DEM q-score(s): 0.00 - 3DEM atom inclusion score(s): 0.00

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	Sampling
5.2. Method type	Replica exchange monte carlo
5.4. Number of computed models	200000
5.5. Software	- AlphaFold2 (version Not available) - IMP PMI module (version 2.11.1) - Integrative Modeling Platform (IMP) (version 2.11.1)