Table S1: Summary of Integrative Structure Determination of Molecular architecture of the major membrane ring component, Pom152, of the yeast nuclear pore complex (PDBDEV00000017)

1. Model Composition	
Entry composition	- pom152: Chain A (1337 residues)
Datasets used for modeling	- Experimental model, PDB ID: 5TVZ - Comparative model, template PDB ID: Not listed - 3DEM volume, EMDB ID: EMD-8543 - 3DEM volume, EMDB ID: Not listed - 2DEM class average, EMDB ID: Not listed - SAS data, SASDBV9 - SAS data, SASDBV9 - SAS data, SASDBV9 - SAS data, SASDBY9 - SAS data, SASDBZ9
2. Representation	
Atomic structural coverage	64%
Number of <u>rigid bodies</u> , <u>flexible units</u>	,
Rigid bodies	- A: 379-472:Comparative model/None, 520-611:Comparative model/None, 616-714:Comparative model/None, 722-818:Comparative model/None, 824-918:Comparative model/None, 931-1026:Comparative model/None, 1036-1141:Comparative model/None, 1150-1229:Comparative model/None, 1244-1337:Comparative model/None.
Flexible units	- A: 1-378, 473-519, 612-615, 715-721, 819-823, 919- 930, 1027-1035, 1142-1149, 1230-1243.
	B
Resolution	Rigid bodies: 1 residue per bead. Flexible regions: N/A
Resolution 3. Restraints	

Experimental data	 - 1 unique EM3DRestraint: Gaussian mixture models, 50 - 6 unique EM2DRestraint: Number of micrographs: None, Image resolution: 50.0 - 2 unique EM2DRestraint: Number of micrographs: None, Image resolution: 60.0 - 5 unique SASRestraint: Assembly name: SAXS subassembly Fitting method: FoXS Multi-state: False
4. Validation	
Sampling validation	Information related to sampling validation has not been provided
Clustering algorithm ,clustering feature	Distance threshold-based clustering used if ensembles are deposited, dRMSD
Number of ensembles	
Number of models in ensembles	364
Model precision (uncertainty of models)	7.0Å
Quality of data	-
Assessment of atomic segments	-
Fit of the model to information used to compute it	1. SASDBV9: Fit 1 with X² value 1.28 2. SASDBV9: Fit 2 with X² value 1.1 3. SASDBW9: Fit 1 with X² value 1.97 4. SASDBX9: Fit 1 with X² value 2.86 5. SASDBY9: Fit 1 with X² value 2.02 6. SASDBZ9: Fit 1 with X² value 1.94
Fit of the model to information not used to compute it	Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
<u>Method</u>	Sampling
<u>Name</u>	Replica exchange Monte Carlo
<u>Details</u>	- Method details unspecified
<u>Software</u>	- Integrative Modeling Platform (IMP) (version develop- 0a5706e202) - IMP PMI module (version 67456c0) - MODELLER (version 9.13) - No location specified