

Summary of integrative structure determination of The molecular architecture of the BBSome and its implications for facilitated transition zone crossing (PDB ID: 8ZZI | pdb_00008zzi, PDB-Dev ID: PDBDEV_00000018)

1. Model Composition	
1.1. Entry composition	- BBS1: chain(s) 1 (593 residues) - BBS2: chain(s) 2 (721 residues) - BBS4: chain(s) 4 (519 residues) - BBS5: chain(s) 5 (341 residues) - BBS7: chain(s) 7 (712 residues) - BBS8: chain(s) 8 (506 residues) - BBS9: chain(s) 9 (887 residues) - BBS18: chain(s) IP (96 residues)
1.2. Datasets used for modeling	- Comparative model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - Comparative model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - Comparative model, Zenodo: 10.5281/zenodo.1255360 - Comparative model, Zenodo: 10.5281/zenodo.1255360 - Comparative model, Zenodo: 10.5281/zenodo.1255360 - Comparative model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - Comparative model, Zenodo: 10.5281/zenodo.1255360 - Comparative model, Zenodo: 10.5281/zenodo.1255360 - Comparative model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - De Novo model, Zenodo: 10.5281/zenodo.1255360 - 3DEM volume, EMDB: EMD-7839 - Crosslinking-MS data, Zenodo: 10.5281/zenodo.1255360 - Experimental model, PDB: pdb_00004v0n - Experimental model, PDB: pdb_00001vyh - Experimental model, PDB: pdb_00005g05 - Experimental model, PDB: pdb_00002cay - Experimental model, PDB: pdb_00003hsa - Experimental model, PDB: pdb_00001w3b - Experimental model, PDB: pdb_00004yhd
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	42, 0

3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: DSS, 103 crosslinks - 1 unique CrossLinkRestraint: BS3, 19 crosslinks - 1 unique EM3DRestraint: None
4. Validation	
4.2. Number of ensembles	1
4.3. Number of models in ensembles	1
4.4. Number of deposited models	1
4.5. Model precision	Not available
4.6. Data quality	EMD-7839: resolution is 4.90 Å
4.7. Model quality: assessment of atomic segments	- Clashscore: 0.00 - Ramachandran outliers: 35 - Sidechain outliers: 5
4.8. Fit to data used for modeling	- Satisfaction of crosslinks: 55.79% - 3DEM q-score(s): 0.15 - 3DEM atom inclusion score(s): 0.49
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	Production sampling
5.2. Method type	Monte Carlo
2. 5.1. Method name	Rosetta Hybridize
5.2. Method type	Rosetta Hybridize
5.5. Software	- Rosetta (version Rosetta version unknown:839226a33c427862a8be7b4ca555493368c1485c 2017-09-18 10:39:53 -0700 from git@github.com:RosettaCommons/main.git) - HHpred (version website)