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

1. Model Composition	
Entry composition	- BBS9: Chain 9 (887 residues) - BBS2: Chain 2 (721 residues) - BBS18: Chain IP (96 residues) - BBS5: Chain 5 (341 residues) - BBS4: Chain 4 (519 residues) - BBS7: Chain 7 (712 residues) - BBS8: Chain 8 (506 residues) - BBS1: Chain 1 (593 residues)
Datasets used for modeling	- Comparative model, template PDB ID: Not available - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - Comparative model, template PDB ID: Not available - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - Comparative model, template PDB ID: Not available - Comparative model, template PDB ID: Not available - Comparative model, template PDB ID: Not available - Comparative model, template PDB ID: Not available - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - Comparative model, template PDB ID: Not available - Comparative model, template PDB ID: Not available - Comparative model, template PDB ID: Not available - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - De Novo model, File: 10.5281/zenodo.1255360 - 3DEM volume, EMDB: EMD-7839 - Crosslinking-MS data, Linker name and number of cross-links: DSS, 103 cross-links - Experimental model, PDB ID: 4V0N - Experimental model, PDB ID: 1VYH - Experimental model, PDB ID: 5G05 - Experimental model, PDB ID: 2CAY - Experimental model, PDB ID: 3HSA - Experimental model, PDB ID: 1W3B - Experimental model, PDB ID: 4YHD
2. Representation	
Resolution	Atomic

Number of rigid bodies, flexible units	8, 0
Rigid bodies	- 1: 1-593:None - 2: 1-721:None - 4: 1-519:None - 5: 1-341:None - 7: 1-712:None - 8: 1-506:None - 9: 1-887:None - IP: 1-96:None
Structural coverage (rigid bodies)	100%
3. Restraints	
Physical principles	Information about physical principles was not provided
Experimental data	- 1 unique CrossLinkRestraint: DSS, 103 cross-links - 1 unique CrossLinkRestraint: BS3, 19 cross-links - 1 unique EM3DRestraint: None
4. Validation	
Number of ensembles	1
Number of models in ensembles	1
Number of deposited models	1
Model precision (uncertainty of models)	None, Å
Data quality	Data quality has not been assessed
Model quality: assessment of atomic segments	Model-1: Clashscore = 0.0, Number of Ramachandran outliers = 35, Number of sidechain outliers = 5
Model quality: assessment of excluded volume	Not applicable
Fit to data used for modeling	Fit of model to information used to compute it has not been determined
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. *Method*	Production sampling
Name	Monte Carlo
2. *Method*	Rosetta Hybridize
Name	Rosetta Hybridize

IM Summary Table

Software	- [Rosetta](#) (version Rosetta version unknown:839226a33c427862a8be7b4ca555493368c148! 2017-09-18 10:39:53 -0700 from git@github.com:RosettaCommons/main.git) - [HHpred](#) (version website)