Summary of integrative structure determination of Structure of 16S rRNA complexed with methyltransferase A small subunit (PDB ID: 8ZZE, PDB-Dev ID: PDBDEV_00000014)

1. Model Composition	
Entry composition	- 16Srna: Chain A (1530 residues) - ksga: Chain B (252 residues)
Datasets used for modeling	- Experimental model, PDB ID: 4ADV - Mutagenesis data, File: 10.1074/jbc.M111.318121 - 3DEM volume, EMDB: EMD-2017 - Other, File: 10.1038/nsmb.1408
2. Representation	
Resolution	Atomic
Number of *rigid bodies*, *flexible units*	20, 19
Rigid bodies	- A: 1-754, 770-776, 781-785, 790-796, 800-886, 889-893, 899-1507, 1517-1530 - B: 3-97, 106-106, 108-123, 129-130, 132-136, 140-140, 145-161, 163-166, 174-197, 213-214, 216-228, 236-252
Flexible units	- A: 755-769, 777-780, 786-789, 797-799, 887-888, 894-898, 1508-1516 - B: 1-2, 98-105, 107-107, 124-128, 131-131, 137-139, 141-144, 162-162, 167-173, 198-212, 215-215, 229-235
Structural coverage (rigid bodies)	100%
3. Restraints	
Physical principles	Information about physical principles was not provided
Experimental data	- 6 unique DerivedDistanceRestraint: Upper Bound Distance: 2.0 - 1 unique EM3DRestraint: Local refinement
4. Validation	
Number of ensembles	0
Number of models in ensembles	Not applicable
Number of deposited models	1
Model precision (uncertainty of models)	Model precision can not be calculated with one structure
Data quality	Data quality has not been assessed

Model quality: assessment of atomic segments	Model-1: Clashscore = 21.89, Number of Ramachandran outliers = 1, Number of sidechain outliers = 8
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*	Rigid-body minimization
Name	Rigid-body minimization in HADDOCK (it0)
Number of computed models	10000
2. *Method*	Simulated annealing
Name	Semi-flexible SA in HADDOCK (it1)
Number of computed models	400
Software	- HADDOCK (version 2.3) - POWERFIT (version 2.0)