Summary of integrative structure determination of The HCN Channel Voltage Sensor Undergoes A Large Downward Motion During Hyperpolarization (PDB ID: 8ZZW, PDB-Dev ID: PDBDEV_00000032)

1. Model Composition	
Entry composition	- HCN Voltage Gated Ion Channel: Chain 2 (491 residues) - HCN Voltage Gated Ion Channel: Chain 4 (491 residues) - HCN Voltage Gated Ion Channel: Chain 3 (491 residues) - HCN Voltage Gated Ion Channel: Chain 1 (491 residues)
Datasets used for modeling	- Comparative model, template PDB ID: Not available - Single molecule FRET data, File: 10.5281/zenodo.3066494 - Single molecule FRET data, File: 10.5281/zenodo.3066494 - Experimental model, PDB ID: 5U6O
2. Representation	
Resolution	Atomic
Number of rigid bodies, flexible units	0, 4
Flexible units	- 1: 167-657 - 2: 167-657 - 3: 167-657 - 4: 167-657
Structural coverage (rigid bodies)	100%
3. Restraints	
Physical principles	Information about physical principles was not provided
Experimental data	- 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 23.9-24.9 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 22.2-23.2 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 17.9-18.9 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 13.8-14.8 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 19.0-20.0 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 12.2-13.2 - 2 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 16.4-17.4 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 14.2-15.2 - 1 unique DerivedDistanceRestraint: Lower Upper Bound Distance: 13.0-14.0

4. Validation	
Number of ensembles	0
Number of models in ensembles	Not applicable
Number of deposited models	2
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 = 0.0, Number of Ramachandran outliers = 0, Number of sidechain outliers = 0 - Model-2: Clashscore = 0.0, Number of Ramachandran outliers = 0, Number of sidechain outliers = 0
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	None
Name	Rosetta Relax
Software	- Rosetta (version Rosetta version unknown:5f5eba092eb978ce62ba80b58d7d04cf6a6f9727 - HHpred (version website)