

Table S1: Summary of Integrative Structure Determination of Structure of the human Rev7 dimer (PDBDEV00000009)

1. Model Composition	
Entry composition	<ul style="list-style-type: none"> - Rev7-monomer: Chain A (212 residues) - Rev7-monomer: Chain C (212 residues) - Rev3-RBM2: Chain B (28 residues) - Rev3-RBM2: Chain D (28 residues)
Datasets used for modeling	<ul style="list-style-type: none"> - SAS data, SASDC29 - Experimental model, PDB ID: 6BC8 - Mutagenesis data, Not listed
2. Representation	
Atomic structural coverage	100%
Number of rigid bodies, flexible units	0, 4
Rigid regions	<ul style="list-style-type: none"> - A: - - B: - - C: - - D: -
Flexible units	<ul style="list-style-type: none"> - A: 1-212. - B: 1-28. - C: 1-212. - D: 1-28.
Resolution	Rigid bodies: 1 residue per bead. Flexible regions: N/A
3. Restraints	
Physical principles	Physical principles were not used for modeling
Experimental data	<ul style="list-style-type: none"> - 64 unique DerivedDistanceRestraint: Upper Bound Distance: 2.0 - 1 unique SASRestraint: Assembly name: Complete assembly Fitting method: FoXS Multi-state: False
4. Validation	
Sampling validation	1. Information related to sampling validation has not been provided
Clustering algorithm ,clustering feature	Distance threshold-based clustering used if ensembles are deposited, Not applicable
Number of ensembles	0
Number of models in ensembles	Not applicable
Model precision (uncertainty of models)	Model precision can not be calculated with one structure

<i>Quality of data</i>	1. SASDC29: Rg from Gunier is 3.01nm and Rg from p(r) is 2.93nm
<i>Assessment of atomic regions</i>	Clashscore: 8.73, Ramachandran outliers: 0.42% , Sidechain outliers: 3.52%
<i>Assessment of excluded volume</i>	1. Not applicable
<i>Fit of the model to information used to compute it</i>	1. SASDC29: Fit 1 with X ² value 25.13
<i>Fit of the model to information not used to compute it</i>	1. Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
<i>Method</i>	None
<i>Name</i>	None
<i>Details</i>	- Method details unspecified
<i>Software</i>	- Software details not provided - No location specified