

Summary of integrative structure determination of Architecture of Pol II(G) and molecular mechanism of transcription regulation by Gdown1 (PDB ID: 8ZZP | pdb_00008zzp, PDB-Dev ID: PDBDEV_00000025)

1. Model Composition	
1.1. Entry composition	<ul style="list-style-type: none"> - RPB1: chain(s) A (1970 residues) - RPB2: chain(s) B (1174 residues) - RPB3: chain(s) C (275 residues) - RPB4: chain(s) D (142 residues) - RPB5: chain(s) E (210 residues) - RPB6: chain(s) F (127 residues) - RPB7: chain(s) G (172 residues) - RPB8: chain(s) H (150 residues) - RPB9: chain(s) I (125 residues) - RPB10: chain(s) J (67 residues) - RPB11: chain(s) K (117 residues) - RPB12: chain(s) L (58 residues) - GDOWN1: chain(s) M (368 residues)
1.2. Datasets used for modeling	<ul style="list-style-type: none"> - Experimental model, PDB: pdb_00005flm - Experimental model, Zenodo: 10.5281/zenodo.1438479 - Crosslinking-MS data, Zenodo: 10.5281/zenodo.1438479
2. Representation	
2.1. Number of representations	1
2.2. Scale	Multiscale: Coarse-grained: 1 - 10 residue(s) per bead
2.3. Number of rigid and flexible segments	0, 71
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: DSS, 40 crosslinks
4. Validation	
4.2. Number of ensembles	1
4.3. Number of models in ensembles	1640
4.4. Number of deposited models	1
4.5. Model precision	12.20, Å
4.6. Data quality	Data quality has not been assessed
4.7. Model quality: assessment of excluded volume	Satisfaction: 99.87%
4.8. Fit to data used for modeling	Satisfaction of crosslinks: 100.00%

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	Sampling
5.2. Method type	Replica exchange monte carlo
5.4. Number of computed models	5000000
5.5. Software	- IMP PMI module (version develop-7c7c0f4348) - Integrative Modeling Platform (IMP) (version develop-0a5706e202)