Summary of integrative structure determination of CLOCK-BMAL1 bound to the native Por nucleosome (PDB ID: 9A3P | pdb_00009a3p, PDB-Dev ID: PDBDEV_00000210)

1. Model Composition	
1.1. Entry composition	- Histone H3.1: chain(s) A, E (139 residues) - Histone H4: chain(s) B, F (106 residues) - Histone H2A: chain(s) C, G (133 residues) - Histone H2B: chain(s) D, H (128 residues) - DNA (147-MER): chain(s) I (147 residues) - DNA (147-MER): chain(s) J (147 residues) - Circadian locomoter output cycles protein kaput: chain(s) K, M (375 residues) - Basic helix-loop-helix ARNT-like protein 1: chain(s) L, N (384 residues)
1.2. Datasets used for modeling	- 3DEM volume, EMDB: EMD-17160 - Crosslinking-MS data, PRIDE: PXD033181 - Experimental model, PDB: pdb_00006t93 - Experimental model, PDB: pdb_00004f3l - Experimental model, PDB: pdb_00008osl
2. Representation	
2.1. Number of representations	1
2.2. Scale	Atomic
2.3. Number of rigid and flexible segments	0, 22
3. Restraints	
3.1. Physical principles	Information about physical principles was not provided
3.2. Experimental data	- 1 unique CrossLinkRestraint: DSSO, 59 crosslinks - 1 unique EM3DRestraint: None
4. Validation	
4.2. Number of ensembles	0
4.3. Number of models in ensembles	Not applicable
4.4. Number of deposited models	1
4.5. Model precision	Not available
4.6. Data quality	EMD-17160: resolution is 4.90 Å
4.7. Model quality: assessment of atomic segments	- Clashscore: 2.34 - Ramachandran outliers: 43 - Sidechain outliers: 29

4.8. Fit to data used for modeling	- Satisfaction of crosslinks: 0.00% - 3DEM q-score(s): 0.12 - 3DEM atom inclusion score(s): 0.82
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	MDFF with distance and map restraints
5.2. Method type	MDFF
5.5. Software	- ChimeraX/Isolde (version Not available) - Coot (version 0.9.6)