

## **Description of Additional Supplementary Files**

File Name: Supplementary Movie 1

Description: Mechanism coordinating DNA translocation by CMG and Pole docking to the motor domains of the MCM ring. Side (left) and MCM-CTD (right) views of the replisome illustrating its transition from State I to State V. The intermediate frames in between two states were interpolated by morphing. Subunits are color coded. Tof1-Csm3 and parental duplex DNA are not shown.