

## Description of Additional Supplementary Files

### File name: Supplementary Data 1

**Description:** PDB coordinates for the model of pBub1:Cdc20:pMad1:C-Mad2:O-Mad2 complex (MCC-assembly scaffold) posed for MCC formation. The model was generated using PDBs 1GO4, 2V64, 6TLJ, 7B1F<sup>21,23,26,90</sup> and the AlphaFold2 models of Bub1<sup>448-534</sup>:Mad1<sup>CTD</sup>:Cdc20 and the folded model of Mad1<sup>485-718</sup>.

### File name: Supplementary Movie 1

**Description:** Rocking movie of the MCCassembly scaffold model shown in main text Figure 7C.