## **Description of Additional Supplementary Files**

File name: Supplementary Movie 1

**Description:** Hexamer to pentamer transformation. Movie comparing the structure of the D6 polar hexamer and the T=1 pentamer. The movie highlights the changes in monomer packing when a different number of CA monomers are accommodated in the ring. NTDs are coloured salmon, CTDs are coloured cyan. Morph was created using Chimera.