

## **Description of Additional Supplementary Files**

File Name: Supplementary Movie 1

Description: Time series movie of microtubule elongation, related to the top panel of Supplementary Figure 1d.

File Name: Supplementary Movie 2

Description: Time series movie of microtubule elongation in the presence of CRMP2, related to the middle panel of Supplementary Figure 1d.

File Name: Supplementary Movie 3

Description: Time series movie of microtubule elongation in the presence of pCRMP2 (phospho-CRMP2), related to the bottom panel of Supplementary Figure 1d.