

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Projection of PC1 from a representative ACTCWT monomer cMD simulation. PC1 is projected on the average cMD structure and indicates a hinge domain motion of primarily SD2 and SD4.

File Name: Supplementary Movie 2

Description: Projection of PC2 from a representative ACTCWT monomer cMD simulation. PC2 is projected on the average cMD structure and indicates a dominant rotational movement.

File Name: Supplementary Movie 3

Description: Projection of PC1 from a representative ACTCM305L monomer cMD simulation. PC1 is projected on the average cMD structure and shows a decreased hinge domain motion.

File Name: Supplementary Movie 4

Description: Projection of PC2 from a representative ACTCM305L monomer cMD simulation. PC2 is projected on the average cMD structure and illustrates a reduced rotational movement.