

Description of Additional Supplementary Files

Supplementary Movie 1: Real-time video of *T. denticola* wild-type cells swimming in 1% methylcellulose.

Supplementary Movie 2: Real-time video of *T. denticola* Δ flaAP1 cells swimming in 1% methylcellulose.

Supplementary Movie 3: Animation of asymmetric architecture of the *T. denticola* sheathed flagellar filament.

Supplementary Movie 4: Animation of the sheathed flagellar assembly in an intact *T. denticola* cell.