

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Fluorescence time-lapse movie showing FtsZ-YPet and SepX-mCherry co-localization in wild-type *S. venezuelae* (MB256) during growth and sporulation.

File Name: Supplementary Movie 2

Description: Fluorescence time-lapse movie showing FtsZ-YPet localization in wild-type *S. venezuelae* (SS12) during growth and sporulation.

File Name: Supplementary Movie 3

Description: Fluorescence time-lapse movie showing FtsZ-YPet localization in the $\Delta sepX$ mutant (MB180) during growth and sporulation.

File Name: Supplementary Movie 4

Description: Fluorescence time-lapse movie showing FtsZ-YPet localization in the $\Delta sepX \Delta dynB$ double mutant (MB1111) during growth and sporulation.