

Description of Additional Supplementary Materials

Supplementary Movie 1. Sequential slices through a representative cryo-electron tomogram of a ΔspoIVB *B. subtilis* sporulating cell in cross-section view. In this stage-III sporangium, early stages of coat assembly are visible at the surface of the forespore. Related to Figure 1.

Supplementary Movie 2. Sequential slices through a representative cryo-electron tomogram of a ΔcotE *B. subtilis* sporulating cell in cross-section view. In this stage-III sporangium, the DNA harbors a fibrillary toroid structure in the forespore cytoplasm. Related to Figure 2.

Supplementary Movie 3. 3D rendering model built from the segmentation of the cryo-electron tomogram shown in Supplementary Movie 1. Related to Figure 1.

Supplementary Movie 4. 3D rendering model built from the segmentation of the DNA from the cryo-electron tomogram shown in Supplementary Movie 2. Related to Figure 2.