Supporting Information

Yamamoto et al. 10.1073/pnas.1001870107

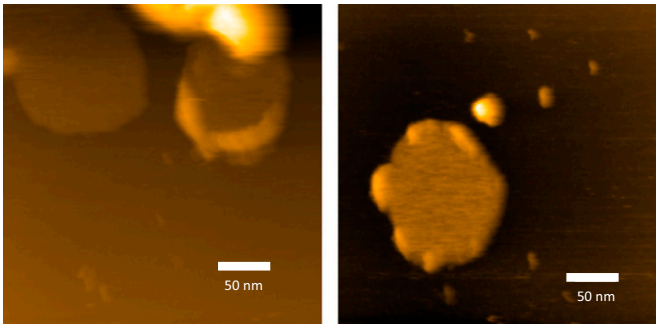


Fig. S1. AFM images of sheet-like structure which was observed around magnetosomes after the treatment with alkaline buffer.

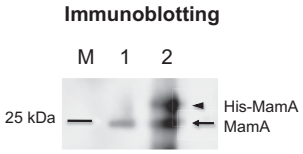


Fig. S2. Immunoblot analysis of magnetosomal proteins bound to the His-MamA affinity column with anti-MamA antibody. Lane1, solubilized magnetosome-associated proteins. Lane 2, eluted proteins from His-MamA affinity column. The 24-kDa protein (arrow) was identified as MamA by immunoblotting. Precision Plus protein standard was used (lane M).

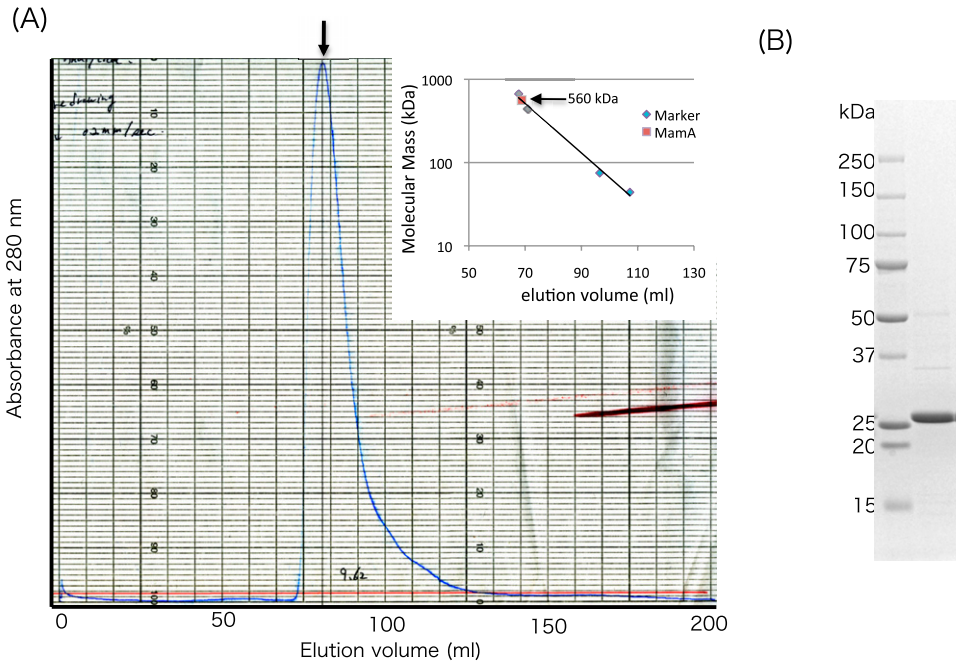


Fig. S3. (*A*) Elution profile on Sephacryl S-300 gel filtration of purified His-MamA from *E. coli* using Ni-affinity chromatography. (*B*) SDS/PAGE of the peak fraction (arrow in *A*) of Sephacryl S-300 gel filtration.

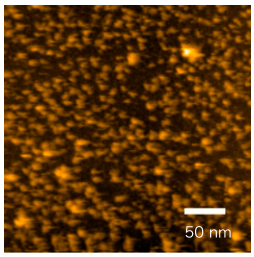
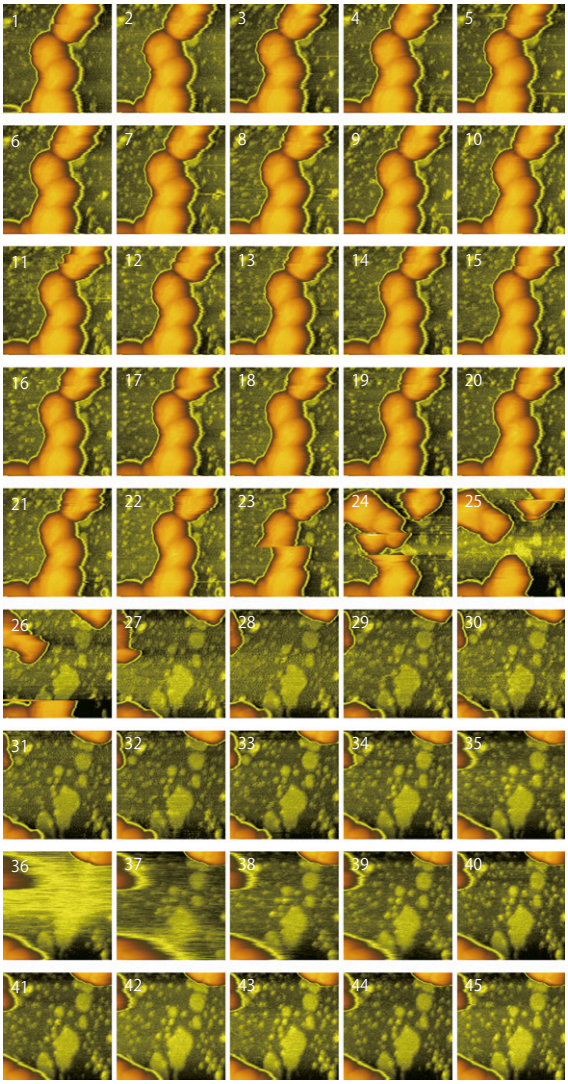


Fig. S4. AFM image of purified His-MamA that was observed on the bare mica.



Movie S1. Nano-dissection of magnetosomes by a high-speed AFM scanning. Images were obtained at 1.0 s/frame with the number of pixels of 256 × 256. The display rate is 5 frames/s.

Movie S1