**Yanagisawa et al., Fig. S3**

**A**

[Image of a gel electrophoresis blot with bands labeled as EF-P(Nm)]

**B**

**EF-P(Nm)**

Calcd: 21,161.02
Obsd: 21,152.62

**C**

**EF-P(Nm) + N. meningitidis extract**

Obsd: 21,301.17
EF-P(Nm) (Calcd. mass) + 140.1 Da
(Obsd. mass) + 148.6 Da

Calcd: 21,161.02
Obsd: 21,152.62
Fig. S3. The activity to modify recombinant EF-P(Nm) exists in the crude extract of *N. meningitidis* cells

(A) A crude extract prepared from *E. coli* cells producing recombinant EF-P(Nm) was incubated with the *N. meningitidis* crude extract. The extract-treated recombinant EF-P(Nm) was purified, the His<sub>6</sub>-tag was cleaved with thrombin, and the protein was subjected to MALDI-TOF MS analysis. Lane 1, molecular mass standards; lane 2, crude extract of *E. coli* cells producing EF-P(Nm) (CE1); lane 3, crude extract of *N. meningitidis* (CE2); lane 4, molecular mass standards; lane 5, mixture of CE1 and CE2; lane 6, purified recombinant EF-P(Nm). (B, C) The molecular mass of the CE2-treated recombinant EF-P(Nm) (obsd: 21,301.17) is larger by 148.6 Da than that of the recombinant EF-P(Nm) without the incubation with CE2 (calcd: 21,161.02, obsd: 21,152.62). The 149 Da mass increase is comparable to the difference between the endogenous EF-P(Nm) (obsd: 21,034.74) and the recombinant EF-P(Nm) (obsd: 20,887.39). The peaks with masses around 17,000–18,000 Da are presumed to be degradation products.