SUPPLEMENTAL FIGURE LEGENDS

FIG. S1. Pieces of gels in which total proteins extracted from (A) the parental strain (BW25113) and (B) the rpoS deleted strain of the stationary growth phase (cultured for 2 days) are separated by RFHR 2D-PAGE. YqjD is not expressed in the mutant cell. This means that the expression of YqjD is regulated by RpoS.

FIG. S2. An alignment of amino acid sequences of YqjD, ElaB, and YgaM from the *E. coli* W3110 strain. ElaB and YgaM were picked up as paralogous proteins by the BLAST search. Asterisks in the C-terminal region indicate the position of the transmembrane motif of YqjD predicted by a program of secondary structure prediction.

FIG. S3. Gene expressions of *yqjD*, *elaB*, and *ygaM* analyzed using a real-time PCR method. Horizontal and vertical axes indicate the time cells were harvested after incubation and the relative intensity of expression, respectively. The expression intensity was normalized to the peak value. That of *rpsB*, coding ribosomal protein S2, was measured as a control.

FIG. S4. Gels of RFHR 2D-PAGE in which proteins contained in RF were extracted from overexpressing cells of 6xHis-tagged ElaB (A) and YgaM (B) by adding 0.3 mM IPTG. These results suggest that ElaB and YgaM bind to ribosomes.

Figure S1

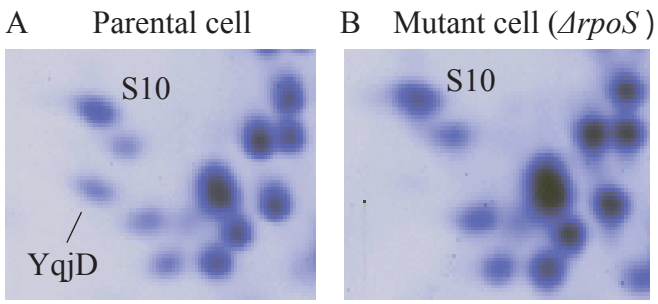


Figure S2

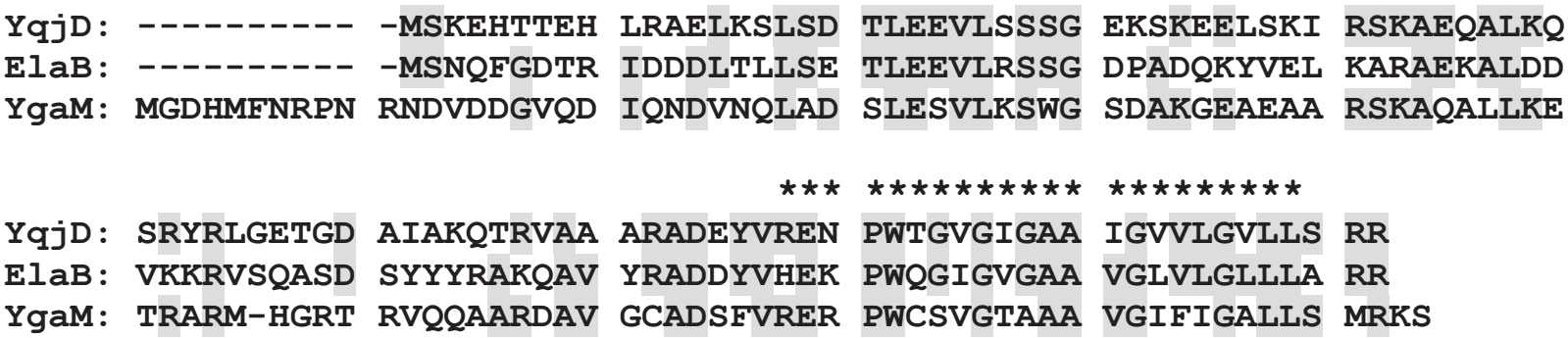

YqjD: ---------- -MSKEHTTEH LRAELKSLSD TLEEVLSSSG EKSKEELSKI RSKAEQALKQ
ElaB: ---------- -MSNQFGDTR IDDDLTLLSE TLEEVLRSSG DPADQKYVEL KARAEKALDD
YgaM: MGDHMFNRPN RNDVDDGVQD IQNDVNQLAD SLESVLKSWG SDAKGEAEAA RSKAQALLKE
*** ********** *********
YqjD: SRYRLGETGD AIAKQTRVAA ARADEYVREN PWTGVGIGAA IGVVLGVLLS RR
ElaB: VKKRVSQASD SYYYRAKQAV YRADDYVHEK PWQGIGVGAA VGLVLGLLLA RR
YgaM: TRARM-HGRT RVQQAARDAV GCADSFVRER PWCSVGTAAA VGIFIGALLS MRKS

Figure S3

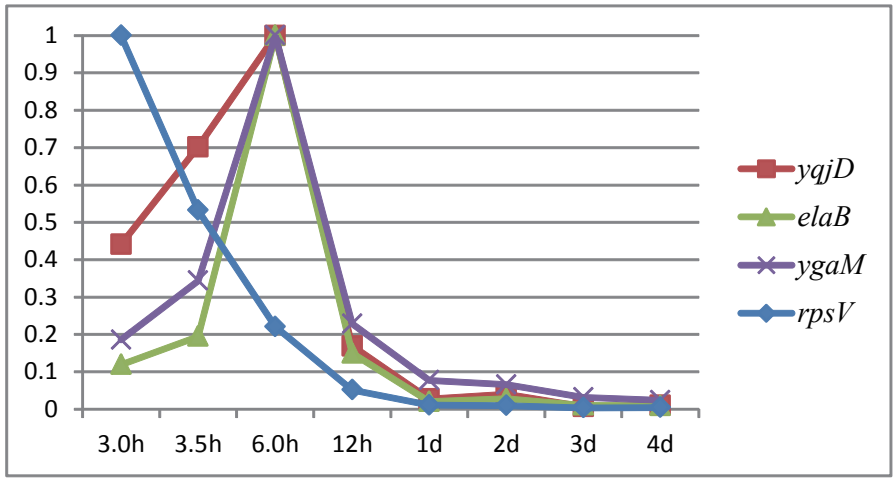
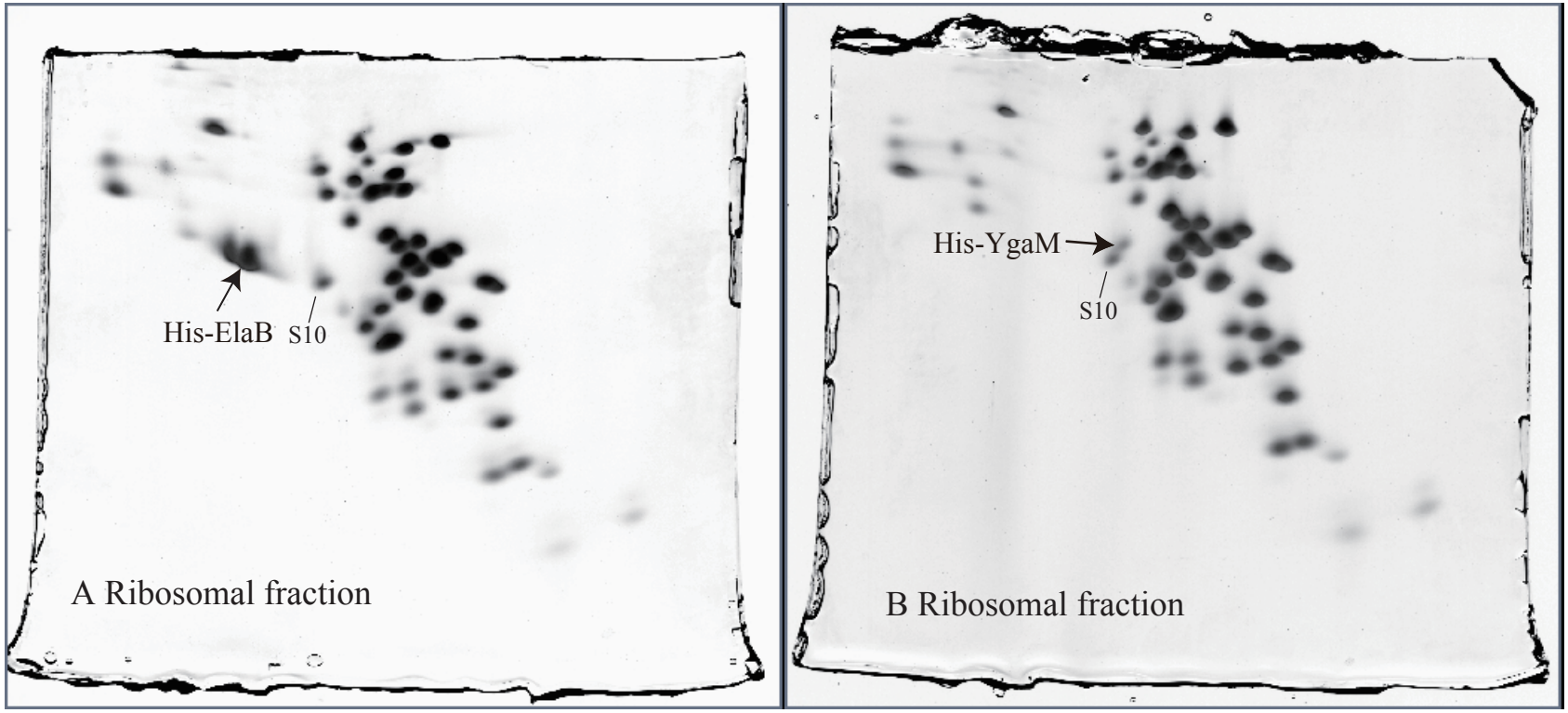

1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
3.0h
3.5h
6.0h
12h
1d
2d
3d
4d
yqjD
elaB
ygaM
rpsV

Figure S4


His-ElaB
S10
A Ribosomal fraction
His-YgaM
S10
B Ribosomal fraction