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2 FIG S1. In haploid, the *lptE14* mutant grows as well as *lptE*<sup>+</sup>. Stationary-phase

3 cultures of  $\Delta lptE2$ ::*kan* strains carrying either p*lptE*<sup>+</sup> (JY33) (solid line) or p*lptE14* 

- 4 (JY35) (dashed line) were sub-cultured into fresh LB media supplemented with 0.2%
- 5 arabinose and grown at  $37^{\circ}$ C, with culture density (A<sub>600</sub>) measured hourly.
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## 17 FIG S3. secA827::IS1 causes an accumulation of OMP pre-protein. Protein

- 18 samples were taken from logarithmic-phase cultures of *lptE* haploid strains carrying
- 19  $plptE^+$  with  $secA^+$  (JY105) or with secA827::IS1 (JY106) insertion, and strains
- 20 carrying plptE14 with secA<sup>+</sup> (JY107) or with secA827::IS1 (JY108), and
- 21 immunoblotted with anti-LamB, anti-MBP, and anti-OmpA. Mature protein forms are
- 22 indicated by black triangles. Additionally, LamB, MBP and OmpA can be detected as
- signal sequence-bearing preprotein in *secA827::*IS1 strains are indicated by white
- 24 triangles.