



**Supplemental Figure S1.** Growth curve of 10403S, 10403S (m\_acid-resistance) and 10403S (m\_foldase) at 25°C. LB-MOPS was inoculated 1:100 with an overnight culture, grown to an OD<sub>600</sub> of 0.1 then diluted 1:100 and measured by (A) CFU mL<sup>-1</sup> or (B) OD<sub>600</sub> for 12 hours (data for A and B were collected from the same experiment). (C) Growth curve of 10403S and LP-018 resistant 10403S mutants at 25°C. LB-MOPS was inoculated 1:100 with an overnight culture, grown to an OD<sub>600</sub> of 0.1 then diluted 1:100 and measured by OD<sub>600</sub> for 12 hours. Data are mean values of three biological replicates and error bars represent standard error.

**Supplemental Table S1.** Additional phage-resistant mutant strains of *Listeria monocytogenes*

Strain*	Description
<i>Listeria monocytogenes</i> mutant strains	
UTK S1-0001	10403S mutant; frameshift mutation in <i>LMRG_01613</i> (encodes foldase PrsA2 precursor)
UTK S1-0002	10403S mutant; frameshift mutation in <i>LMRG_01613</i> (encodes foldase PrsA2 precursor)
UTK S1-0003	10403S mutant; nonsense mutation in <i>LMRG_00278</i> (encodes acid-resistance family protein HdeD), missense mutation in <i>LMRG_01441</i> (encodes a preprotein translocase subunit YajC)
UTK S1-0005	10403S mutant; frameshift mutation in <i>LMRG_00278</i> (encodes acid-resistance family protein HdeD)
UTK S1-0006	10403S mutant; frameshift mutation in <i>LMRG_00278</i> (encodes acid-resistance family protein HdeD)
UTK S1-0007	10403S mutant; nonsense mutation in <i>LMRG_01613</i> (encodes foldase PrsA2 precursor)
UTK S1-0008	10403S mutant; frameshift mutation in <i>LMRG_01613</i> (encodes foldase PrsA2 precursor)
UTK S1-0009	10403S mutant; nonsense mutation in <i>LMRG_01613</i> (encodes foldase PrsA2 precursor)

\*All strains sourced from this study