

1 **Table S1:** Strains and plasmids used in this study

Strains or Plasmid	Genotype or Features	Reference or Source
Strains		
<i>E. coli</i>		
AAEC185	<i>supE44 hsdR17 mcrA mcrB endA1 thi-1 ΔfimB-fimH ΔrecA</i>	41
DH5α	<i>supE44 ΔlacU169(F80lacZDM15) hsdR17 recA1 endA1 gyrA96 thi-1 relA1</i>	Laboratory collection
<i>Y. pestis</i>		
KIM D27 (referred to as KIM5)	Parental strain, <i>pgm</i> –	Dr. Melanie Marketon
KIM5 D27Δ <i>ail</i> Δ <i>pla</i>	<i>pgm</i> – Δ <i>ail</i> Δ <i>pla</i>	This study
KIM5 D27Δ3	<i>pgm</i> – Δ <i>ail</i> Δ <i>pla</i> Δ <i>psaA</i>	This study
KIM5 D27 Δ <i>yopB</i>	<i>pgm</i> – Δ <i>yopB</i>	This study
<i>Y. pseudotuberculosis</i>		
IP2666	Wild-type strain	Dr. James Bliska
YPIII	Wild-type strain	Drs. James Bliska and Ralph Isberg
YP18	YPIII <i>inv::tet^R, psaABC::kan^R, ail::Cm^R</i>	Dr. Petra Dersch
YP18 pYV-	YPIII <i>inv::tet^R, psaABC::kan^R, ail::cm^R</i> pYV- (<i>yadA</i> -, plasmid cured)	This study
Plasmids		
pMMB207	IPTG-inducible expression plasmid, Cm ^R	38
pMMB207- <i>ail</i> KIM5	<i>Ail</i> _{KIM5} -expressing plasmid	6
pMMB207- <i>ail</i> -E43D	<i>Ail</i> -E43D-expressing plasmid	This study
pMMB207- <i>ail</i> -F126V	<i>Ail</i> -F126V-expressing plasmid	This study
pMMB207- <i>ail</i> YPIII (E43D/F126V)	<i>Ail</i> _{YPIII} -expressing plasmid	This study
pMMB207- <i>ail</i> -T7I/E43D/F126V	<i>Ail</i> -T7I/E43D/F126V-expressing plasmid	This study
pMMB66EH	IPTG-inducible expression plasmid, Amp ^R	39
pMMB66EH- <i>ail</i> KIM5	<i>Ail</i> _{KIM5} -expressing plasmid	This study
pMMB66EH- <i>ail</i> E43D	<i>Ail</i> -E43D-expressing plasmid	This study
pMMB66EH- <i>ail</i> F126V	<i>Ail</i> -F126V-expressing plasmid	This study
pMMB66EH- <i>ail</i> YPIII	<i>Ail</i> _{YPIII} -expressing plasmid	This study