

**Table 2. Bacterial strains and plasmids**

Strains/plasmids	Description	Origin/ reference
<i>E. coli</i> K12		
CC118	F <sup>-</sup> Δ( <i>ara-leu</i> )7697 Δ( <i>lacZ</i> )74 Δ( <i>phoA</i> )20 <i>araD139</i> <i>galE galK thi rpsE rpoB arfE<sup>am</sup> recA1</i>	1
<i>Y. pseudotuberculosis</i>		
YPIII	pIB1, wild-type	2
YP31	pIB1 <sup>-</sup> , <i>inv::Tn10</i>	3
YP45	pIB1, <i>yadA</i> <sup>+</sup>	This work
YP46	pIB1, <i>yadA</i> Δ53-83	This work
YP47	pIB1, <i>yadA</i> <sup>-</sup>	3
<b>Plasmids</b>		
pBAD18	cloning vector, p <sub>BAD</sub> , Ap <sup>R</sup>	4
pGP704	R6K based suicide vector, Ap <sup>R</sup>	5
pJE13	pBAD18, <i>yadA<sub>ent</sub></i> <sup>+</sup> , Ap <sup>R</sup>	This work
pPD284	pBAD18, <i>yadA<sub>pstb</sub></i> <sup>+</sup> , Ap <sup>R</sup>	3
pTH1	pBAD18, <i>yadA<sub>pstb</sub></i> Δ(53-83), Ap <sup>R</sup>	This work
pTH2	pBAD18, <i>yadA<sub>pstb</sub></i> (K59A), Ap <sup>R</sup>	This work
pTH6	pBAD18, <i>yadA<sub>pstb</sub></i> (A58E), Ap <sup>R</sup>	This work
pTH22	pBAD18, <i>yadA<sub>pstb</sub></i> (Δ53-67), Ap <sup>R</sup>	This work
pTH24	pBAD18, <i>yadA<sub>pstb</sub></i> (Δ68-83), Ap <sup>R</sup>	This work
pTH25	pBAD18, <i>yadA<sub>pstb</sub></i> (V133D,N134A), Ap <sup>R</sup>	This work
pTH26	pBAD18, <i>yadA<sub>pstb</sub></i> (V133D,N134A,Δ53-83), Ap <sup>R</sup>	This work

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