

Table S5: List of strains used in this study

Strain or plasmid	Relevant phenotype	Reference	RpoN binding site mutation
<i>E. coli</i>			
S17-1 λ-pir	<i>recA, thi, pro, hsdR</i> +, SmR, <RP4:2-Tc:Mu:Km:Tn7>TpR		
pUC57-3xV5 / DH5α	pUC 57 derivative containing a 129bp fragment of 3xV5	This study	
<i>Y. pseudotuberculosis</i>			
YpIII/pIBX (wt)	YpIII strain with Tn5 <i>luxCDABE</i> inserted in the Tn1000 resolvase homolog in pCD1 (wild type); KmR	Caliper Life Sciences,	
YpIII,Δ <i>rpoN</i> /pIBX	In frame deletion of <i>rpoN</i> (YPK_0505); Km ^r	This study	
YpIII, <i>rpoN</i> :V5/pIBX	<i>rpoN</i> tagged with 3xV5	This study	
YpIII,Δ <i>rpoN</i> /pIBX, <i>prpoN</i>	Δ <i>rpoN</i> transcomplemented	This study	
YpIII,Δ <i>rpoN</i> /pIBX, <i>prpoN</i> :V5	V5-overexpressing YpIII,Δ <i>rpoN</i> /pIBX strain	This study	
YpIII,YPK_0329_BS-mut/pIBX	Mutations in rpoN Binding Site upstream of YPK_0329	This study	tgta ctgtttat gag tt
YpIII,YPK_0464_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_0464	This study	at cat ccggtttatt aaga
YpIII,YPK_1170_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_1170	This study	ca agc cttgattat caa
YpIII,YPK_1886_BS-mut/pIBX	Mutations in rpoN Binding Site upstream of YPK_1886	This study	tgta cacgcatt gag ct
YpIII,YPK_1894_BS-mut/pIBX	Mutations in rpoN Binding Site upstream of YPK_1894	This study	tc atcacgact ctact tt
YpIII,YPK_2431_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_2431	This study	tt ag ctc gctt ct aa gc
YpIII,YPK_2908_BS-mut/pIBX	Mutations in rpoN Binding Site upstream of YPK_2908	This study	ag ta cat gataat gag tt
YpIII,YPK_2909_BS-mut/pIBX	Mutations in rpoN Binding Site upstream of YPK_2909	This study	tg ta cat gagat gag ct
YpIII,YPK_2927_BS-mut/pIBX	Mutations in rpoN Binding Site upstream of YPK_2927	This study	tg ta cca agat gag tt
YpIII,YPK_2997_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_2997	This study	tg cca aca agatt gag cat
YpIII,YPK_3010_BS-mut/pIBX	Mutations in rpoN Binding Site upstream of YPK_3010	This study	cg ta caca aac ctgag at
YpIII,YPK_3075_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_3075	This study	at ag ct ctg att acc c
YpIII,YPK_3583_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_3583	This study	cagg ac ctcat g accgag
YpIII,YPK_3613_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_3613	This study	ct gtg ataaat ctg gt
YpIII,YPK_3887_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_3887	This study	cg cat cca at caag cat
YpIII,YPK_3962_BS-mut/pIBX	Mutations in rpoN Binding Site in YPK_3962	This study	gacc ag catgtt ag cat
Plasmids			
pDM4	Suicide vector for construction of deletion and Binding site mutants; <i>sacBR</i> ; <i>oriR6K</i> ; CmR	Milton et al., 1996	
<i>prpoN</i>	<i>rpoN</i> under araBAD promoter in pBAD24; CbR	This study	
<i>prpoN</i> :V5	<i>rpoN</i> C-terminal tagged with 3xV5 under the araBAD promoter in pBAD18; CbR	This study	
pDM4-YPK_0505	The flanking DNA regions of the YPK_0505 gene were PCR amplified from <i>pseudotuberculosis</i> genome using primers xxxx and cloned in the pDM4 <i>Y.</i> plasmid by SacI-XhoI restriction	This study	
pDM4-0329_BS-mut	The mutated rpoN Binding Site in YPK_0329 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-0464_BS-mut	The mutated rpoN Binding Site in YPK_0464 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-1170_BS-mut	The mutated rpoN Binding Site upstream of YPK_1170 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-1886_BS-mut	The mutated rpoN Binding Site in YPK_1886 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-1894_BS-mut	The mutated rpoN Binding Site upstream of YPK_1894 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-2431_BS-mut	The mutated rpoN Binding Site in YPK_2431 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-2908_BS-mut	The mutated rpoN Binding Site upstream of YPK_2908 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-2909_BS-mut	The mutated rpoN Binding Site upstream of YPK_2909 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-2927_BS-mut	The mutated rpoN Binding Site in YPK_2927 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	
pDM4-2997_BS-mut	The mutated rpoN Binding Site in YPK_2997 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study	

pDM4-3010_BS-mut	The mutated rpoN Binding Site upstream of YPK_3010 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study
pDM4-3075_BS-mut	The mutated rpoN Binding Site upstream of YPK_3075 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study
pDM4-3583_BS-mut	The mutated rpoN Binding Site in YPK_3583 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study
pDM4-3613_BS-mut	The mutated rpoN Binding Site in YPK_3613 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study
pDM4-3887_BS-mut	The mutated rpoN Binding Site in YPK_3887 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study
pDM4-3962_BS-mut	The mutated rpoN Binding Site in YPK_3962 including flanking regions were cloned in the pDM4 plasmid by SacI-XhoI restriction	This study