

TABLE S1. Oligonucleotides used in this study

Construction of RcsB-His6

agttccatggacaaccttaatgtaattattgctgatgacc
agctaagcttcagttctttatccacttggc

Construction of *malE-rcsA* fusion

cgggatccatgaaaatattaatcaccgacgaatgc
agctaagcttagaatggaatgtattgtgtcg

Construction of RcsA-His6

Tcgggatccctaatgatgatgatgatgatgatggtacaataacttaaacacattataatgaaacac
Tcgggatccttattactgataaatcataaattatcgacacaatacattccattc

Construction of *lacZ* deletion

atgacgtcacaggaaaaggtaccactccaggtgcaactgagtccttgtaggctggagctgcttcg
ttacacctgtattgccaacagatttggtactgataggttcacgcatatgaatatcctccttag

Construction of *hmsT::lacZ* fusion

gatttattagtctactgacagcacgatattatgcagagtaaattgcccgctgtttacaacgctc
tcaaggggaagactgtacatttgataattcatcttagcaaatccgttaggctggagctgcttc

Construction of *hmsP::lacZ* fusion

atttgaagcccagatttcagcagcgcaccacgtaagtaatgacccaaatcattcccgcgtttacaacgctc
tcttgctgacaagtgttttctaataatgtagggacttcacagccgttaggctggagctgcttc

Construction of *hmsH::lacZ* fusion

aacaagttgctggcttaagggtatataatgtataacgcattcccgcgtttacaacgctc
gatttgataaaaattaatagcttcgccatggtccaattccctcgttaggctggagctgcttc

Determination of *hmsT* transcription start site

tgtcttgggcgacgatgatagc
tggaattcgagtaagagagctgatgcttgcct
tggaattcgttaaatagtttaacattatttaggattttc

PCR amplification of *hmsT* promoter for EMSA

tcatgatgacaggctgaaaca
tccgacatcacgacaataaa

RcsAB box mutagenesis

ctaagagctcaaagtcattgctccgtacgc
tgacgcatgcgagcagcaggacataatga
cgtcagtactattttcttagccaaaattaccattttgtttcagcctgaaaataatgttaaaactatttaacaataataattccca
atftttcttagccaaaattaccattttgtttcagcctg

hmsT RT-PCR

atcaggctctggtacggatttc

acgcaccacgatatctcttgaac

56-FAM/cacagcatcgcggaatggccg/36-TAMSp

All sequences are in 5'-3' orientation.

TABLE S2 The RcsAB box is present at the upstream of *hmsT* in all sequenced *Yersinia* spp.

Strain	RcsAB box	Upstream of ATG	NCBI accession #
Consensus sequence	TaAGaatatTCcta	-	-
<i>Y. pseudotuberculosis</i>	TaAGaaa <u>aa</u> TCcta	130-117 bp	NC_006155
<i>Y. pestis</i>	TaAGaaa <u>aa</u> TCcta	130-117 bp	NC_004088.1
<i>Y. bercovieri</i>	TaAGaaa <u>at</u> TCcta	132-119 bp	NZ_AALC02000002
<i>Y. mollaretii</i>	TaAGaaa <u>at</u> TCcta	131-118 bp	NZ_AALD02000031
<i>Y. intermedia</i>	TaAGaaa <u>at</u> TCcta	132-119 bp	NZ_AALF02000024
<i>Y. frederiksenii</i>	TaAGaaa <u>at</u> TCcta	131-118 bp	NZ_AALE02000024
<i>Y. kristensenii</i>	TaAGaaa <u>at</u> TCcta	132-119 bp	NZ_ACCA01000004
<i>Y. enterocolitica</i>	TaAGaaa <u>at</u> TCcta	132-119 bp	NC_008800
<i>Y. aldovae</i>	TaAGaaa <u>at</u> TC <u>ca</u>	131-118 bp	NZ_ACCB01000013
<i>Y. rohdei</i>	Tag <u>G</u> aaa <u>aa</u> TCcta	132-119 bp	NZ_ACCD01000034
<i>Y. ruckeri</i>	TaAGaaa <u>aa</u> TC <u>ta</u>	127-104 bp	NZ_ACCE01000053