

Table S1. Strains and plasmids used in this study

Strain/plasmid	Relevant characteristics	Source
<i>P. polymyxa</i> strains		
WLY78	Wild-type strain	
ΔserA	In-frame deletion mutant of the <i>serA</i> gene	This study
Ser T-box ^{Δ216}	A mutant of <i>P. polymyxa</i> WLY78 having deletion of a 216 bp in the Ser T-box region	This study
Ser T-box ^{Δ70}	A mutant of <i>P. polymyxa</i> WLY78 having deletion of a 70 bp in the Ser T-box region	This study
SerT-box ^{Δ280}	A mutant of <i>P. polymyxa</i> WLY78 with deletion of the full length of the Ser T-box region (from TSS to polyU)	This study
Ser T-box ^{Δ70-BamHI}	A mutant of <i>P. polymyxa</i> WLY78 with deletion of the full length of the Ser T-box region (from TSS to polyU) with the polyU being replaced by BamHI site	This study
<i>E. coli</i> strains		
JM109	General cloning host; recA1, endA1, gyrA96, thi-1, hsdR17, supE44, relA1, Δ(lac-proAB)/F' [traD36, proAB+, lacIq, lacZΔM15]	Sangon Biotech Co.
Plasmids		
pRN5101	Temperature-sensitive <i>E. coli</i> - <i>Bacillus</i> shuttle vector, Em ^r	
pHY300PLK	Multiple-copy <i>E. coli</i> - <i>Bacillus</i> shuttle vector, Tc ^r	Takara
pPR9TT	Broad-host range <i>lacZ</i> promoter probe vector; RK2 replicon; Amp ^r , Cm ^r	Sangon Biotech Co.
pRDserA	A derivative of pRN5101 vector for construction of the <i>serA</i> deletion mutant	This study
pRDSer T-box ^{Δ216}	A derivative of pRN5101 vector for construction of the Ser T-box ^{Δ216} mutant	This study
pRDSer T-box ^{Δ70}	A derivative of pRN5101 vector for construction of the Ser T-box ^{Δ70} mutant	This study
pRDSer T-box ^{Δ280}	A derivative of pRN5101 vector for construction of the Ser T-box ^{Δ280} mutant	This study
pRUBamHI	A derivative of pRN5101 vector for construction of the Ser Ser T-box ^{Δ70-BamHI} mutant in which polyU was replaced by BamHI	This study
<i>lacZ</i> fusion		
pSerA-lacZ	A derivative of pHY300PLK vector carrying promoter and leader region of the <i>serA</i> fused to the <i>lacZ</i> coding region from pPR9TT vector	This study
pSI-lacZ	A derivative of pHY300PLK vector carrying the mutated leader region (AGC being mutated to AGA) fused to the <i>lacZ</i> coding region from pPR9TT vector	This study
pSII-lacZ	A derivative of pHY300PLK vector carrying the mutated leader region (TCC being mutated to ACC) fused to the <i>lacZ</i> coding region	This study
pSIII-lacZ	A derivative of pHY300PLK vector carrying the mutated leader region (AGT being mutated to AGA) fused to the <i>lacZ</i> coding region	This study

Table S2. Primers used in this study

Primer Name	Sequence (5'→3')	PCR product
SerTBupF	acgatgcgtccggcgtagagTCATCAATGGCTTCAACAAAG	Upstream region of Tbox ^{Δ216}
SerTBupR	aacaatgatgGATAACTCTCGTCCCTTAC	
SerTBdnF	gagagtattcCATCATTGTTGTTGTCGC	Downstream region of Tbox ^{Δ216}
SerTBdnR	cgaaaagacataatcgataCTAAAAAAATTAAAAACCACTTG	
SerTB70upR	aactacttcGTTATCCTTCGGTCATTTATG	Upstream region of Tbox ^{Δ70}
SerTB70dnF	aaaggataacGAAAGTAGTTACTTCGTAC	Downstream region of Tbox ^{Δ70}
serAupF	acgatgcgtccggcgtagaggatccAAGCTAGAGAAGATGCGG	Upstream region of <i>serA</i>
serAupR	aacacaacgcCATTCTCTGCTCATCTCG	
serAdnF	gcaggaatgGC GTTGTGTTGCTGCTTC	Downstream region of <i>serA</i>
serAdnR	cgaaaagacataatcgataAAAATATCCAGATTGAGCCAATCA G	
SerTB280upR	aacaatgatgGATGCCGAAAACCGCAAAG	Upstream region of Tbox ^{Δ280}

SerTB280dnF	ttcgggcattCATCATTGTTGGTCGC	Downstream region of Tbox ^{A₂₈₀}
SerTBbamHIupR	GGGGGTGGATCCGATGCCGAAACCGCAA	Upstream region of Ser T-box ^{A₇₀-BamHI}
SerTBbamHIdnF	GGCATCGGATCCACCCCCGAATCACATACTA	Downstream region of Ser T-box ^{A₇₀-BamHI}
<i>lacZ</i> fusion		
Ser T-boxp-f	tagagatctgcaggcgacAGTTAGTTAGTCCTCTGC	Ser T-box promoter cloning
Ser T-boxp-r	gtaaaaacgacCATGTTACTTCGTCACCG	
lacZ-f	atgGTCGTTTACAACGTCTG	<i>lacZ</i> cloning
lacZ-r	ttataacaggaaattccgggTTATTGGACACCAAGACC	
MutC87A-f	TAAC TACTTCAG <u>A</u> GCTCC	AGA mutation
MutC87A-r	AGTAGTTACTTCGTCACC	
MutT90A-f	AACTACTTCAGCG <u>C</u> CTG	TCC mutation
MutT90A-r	AGTAGTTACTTCGTCACCGG	
MutT97A-f	AGCGCTCCTGAG <u>A</u> TATTG	AGT mutation
MutT97A-r	GGAGCGCTGAAAGTAGTT	
For RT-PCR		
RTserA-r	TACCTGCCGTATGATGC	T-box verification
RTser Tbox-f	GAGAAAAGGTATTGATTTCGTCC	
RTser Tbox-r	CACATACTATCTCCATACT	
For qRT-PCR		
q16s-f	TTTGTGTCAGCCTCGTGGTCGT	16S rDNA
q16s-r	ATCCCCACCTTCCCGGTTG	
qserA-f	GCTGGCAGGCTATGGCGAAC	<i>serA</i>
qserA-r	GGTGCCGACACGACCGATAATG	
qnifH-f	AACAGCCGAATACGGACC	<i>nifH</i>
qnifH-r	ACCTGCCAGCTTCTACTC	