

Table S1. Bacterial strains and plasmids used in this work

Strain or plasmid	Genotype and/or Relevant characteristics	Source or Reference
<i>E. coli</i>		
DH5 α	<i>recA1 ϕ80 lacZΔM15, gyrA96</i>	Gibco BRL
SU101	<i>E. coli</i> JL 1434, <i>lexA71::Tn5</i> (Def) <i>sulA211 Δ(lacIPOZYA) 169/F⁺ lacI^s lacZ ΔM15::Tn9</i> (op+/op+)	(10)
BL21/pLys21	F ⁻ <i>ompT</i> (<i>lon</i>) <i>hdsS_B</i> (F _B ⁻ m _B ⁻) <i>gal dcm</i> (λ DE3)	Invitrogen
<i>S. entérica</i>		
IMSS-1	<i>Salmonella enterica</i> serovar Typhi 9,12, d, Vi; Mexican clinical isolate	(44)
Plasmids		
pSR658-A	Vector encoding a LexA DBD sequences used for homodimerization studies; Tc ^r <i>oriV</i>	(7)
pLexA-LeuO1-314	pSR658-A derived plasmid containing the fusion <i>lexA_{DBD}-leuO</i> (complete gene)	This study
pLexA-LeuO1-309	pSR658-A derived plasmid containing the fusion <i>lexA_{DBD}-leuO</i> with a deletion of fifteen nucleotides at the 3' end of <i>leuO</i>	This study
pLexA-LeuO1-304	pSR658-A derived plasmid containing the fusion <i>lexA_{DBD}-leuO</i> with a deletion of thirty nucleotides at the 3' end of <i>leuO</i>	This study
pLexA-LeuO1-299	pSR658-A derived plasmid containing the fusion <i>lexA_{DBD}-leuO</i> with a deletion of forty-five nucleotides at the 3' end of <i>leuO</i>	This study
pLexA-LeuO1-294	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO</i> with a deletion of sixty nucleotides at the 3' end of <i>leuO</i>	This study
pLexA-LeuO1-284	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO</i> with a deletion of ninety nucleotides at the 3' end of <i>leuO</i>	This study
pLexA-LeuO1-214	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO</i> with a deletion of three hundred nucleotides at the 3' end of <i>leuO</i>	This study
pLexA-LeuOL27A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-L27A</i> (alanine substitution at residue L27 in <i>LeuO</i>) fusion	This study
pLexA-LeuOL46A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-L46A</i> (alanine substitution at residue L46 in <i>LeuO</i>) fusion	This study
pLexA-LeuOS54A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-S54A</i> (alanine substitution at residue S54 in <i>LeuO</i>) fusion	This study
pLexA-LeuOL60	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-L60A</i> (alanine substitution at residue L60 in <i>LeuO</i>) fusion	This study
pLexA-LeuOT79A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-T79A</i> (alanine substitution at residue T79 in <i>LeuO</i>) fusion	This study
pLexA-LeuOP139A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-P139A</i> (alanine substitution at residue P139 in <i>LeuO</i>) fusion	This study
pLexA-LeuOS310A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-S310A</i> (alanine substitution at residue S310 in <i>LeuO</i>) fusion	This study
pLexA-LeuOV311A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-V311A</i> (alanine substitution at residue V311 in <i>LeuO</i>) fusion	This study
pLexA-LeuOC312A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-C312A</i> (alanine substitution at residue C312 in <i>LeuO</i>) fusion	This study
pLexA-LeuOK313A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-K313A</i> (alanine substitution at residue K313 in <i>LeuO</i>) fusion	This study
pLexA-LeuOR314A	pSR658-A derived plasmid containing the <i>lexA_{DBD}-leuO-R314A</i> (alanine substitution at residue R314 in <i>LeuO</i>) fusion	This study
pFMTrc12	pTrc99A modified with replication origin p15A1 <i>lacI ptrc</i> ; Ap ^r	(13)
pFMTrcleuO-50	pFMTrc12 derived plasmid containing the <i>leuO</i> gene	(8)
pLeuO1-309	pFMTrcleuO-50 derived containing a deletion of fifteen nucleotides at 3' end of <i>leuO</i>	This study
pLeuO1-304	pFMTrcleuO-50 derived containing a deletion of thirty nucleotides at 3' end of <i>leuO</i>	This study
pLeuO1-299	pFMTrcleuO-50 derived containing a deletion of forty-five nucleotides at 3' end of <i>leuO</i>	This study
pLeuO1-294	pFMTrcleuO-50 derived containing a deletion of sixty nucleotides at 3' end of <i>leuO</i>	This study
pLeuO1-284	pFMTrcleuO-50 derived containing a deletion of ninety nucleotides at 3' end of <i>leuO</i>	This study
pLeuO1-214	pFMTrcleuO derived containing a deletion of three hundred nucleotides at 3' end of <i>leuO</i>	This study
pLeuOL27A	pFMTrcleuO-50 derived containing an alanine substitution at residue L27 of <i>LeuO</i>	This study
pLeuOL46A	pFMTrcleuO-50 derived containing an alanine substitution at residue L46 of <i>LeuO</i>	This study

pLeuOS54A	pFMTrcleuO-50 derived containing an alanine substitution at residue S54 of LeuO	This study
pLeuOL60A	pFMTrcleuO-50 derived containing an alanine substitution at residue L60 of LeuO	This study
pLeuOT79A	pFMTrcleuO-50 derived containing an alanine substitution at residue T79 of LeuO	This study
pLeuOP139A	pFMTrcleuO-50 derived containing an alanine substitution at residue P139 of LeuO	This study
pLeuOS310A	pFMTrcleuO-50 derived containing an alanine substitution at residue S310 of LeuO	This study
pLeuOV311A	pFMTrcleuO-50 derived containing alanine substitution at residue V311 of LeuO	This study
pLeuOC312A	pFMTrcleuO-50 derived containing an alanine substitution at residue C312 of LeuO	This study
pLeuOK313A	pFMTrcleuO-50 derived containing an alanine substitution at residue K313 of LeuO	This study
pLeuOR314A	pFMTrcleuO-50 derived containing an alanine substitution at residue R314 of LeuO	This study
pMPM-T6Ω	pBR322 derived, p15A ori, tetracycline resistance, AraC repressor/activator, Ω interposon	
pMPMLeuO-His	pMPM-T6Ω derived plasmid containing full-length <i>leuO</i> gene with a Hisx6 tag under pBAD promoter.	This study
pMPMLeuO1-299	pMPM-T6Ω derived plasmid containing a deletion of fifteen nucleotides at the 3' end of <i>leuO</i> with Hisx6 tag	This study
pMPMLeuO1-284	pMPM-T6Ω derived plasmid containing a deletion of ninety nucleotides of 3' end of <i>leuO</i> with a Hisx6 tag	This study
pMPMLeuOS54A	pMPM-T6Ω derived plasmid containing alanine substitution at residue S54 of LeuO with a Hisx6 tag	This study
pMPMLeuOT79A	pMPM-T6Ω derived plasmid containing alanine substitution at residue T79 of LeuO with a Hisx6 tag	This study
pMPMLeuOP139A	pMPM-T6Ω derived plasmid containing alanine substitution at residue P139 of LeuO with a Hisx6 tag	This study
pKK232-9 <i>ompS1</i>	pKK232-9 derived containing 706-bp upstream and 60-bp downstream of the <i>ompS1</i> ATG start codon	(21)
pKK232-9 <i>tpx</i>	pKK232-9 derived containing 405-bp upstream and 82-bp downstream of the <i>tpx</i> ATG start codon	(21)
pRO310	pMC1871-derived plasmid, containing a translational fusion of <i>ompS1</i> to the <i>lacZ</i> reporter gene.	(42)
PTEPLer1	pMPM-T3 derived expressing <i>ler</i> fragment from the <i>lac</i> promoter	(4)

