

Table S2. Plasmids used in this study.

Plasmids	Description ^a	Reference or source
pMD19-T	Commercial TA cloning vector, Ap ^r	Takara
pET22b	Commercial vector for protein expression, IPTG inducible, Ap ^r	Novagen
pET22b <i>sigH</i>	pET22b derivative, harboring <i>sigH</i> ORF of NCTC8325, Ap ^r	This study
pET22b <i>sigA</i>	pET22b derivative, harboring <i>sigA</i> ORF of NCTC8325, Ap ^r	This study
pGEX-2T	Commercial vector for protein expression, IPTG inducible, Ap ^r	GE Healthcare
pET22b <i>tac-sigH</i>	pET22b <i>sigH</i> derivative, T7 promoter is replaced by <i>tac</i> promoter, IPTG inducible, Ap ^r	This study
pINT ^{ts}	CRIM helper plasmid, express lambda integrase, Ap ^r	[33]
pAH125	CRIM vector, <i>attP</i> for chromosomal integration in <i>attB</i> -site of lambda phage, Kan ^r	[31]
pAH125 <i>pint</i>	pAH125 derivative, harboring <i>pint</i> of Φ11, Kan ^r	This study
pMAD	Shuttle vector between <i>E. coli</i> and <i>S. aureus</i> , Ap ^r , Em ^r	[42]
pMADΔ <i>sigH</i>	pMAD derivative, containing the sequences up- and downstream of <i>sigH</i> ORF, Ap ^r , Em ^r	This study
pMADΔ <i>int11</i>	pMAD derivative, containing the sequences up- and downstream of Φ11 <i>int</i> ORF, Ap ^r , Em ^r	This study
pMAD <i>sigH</i>	pMAD derivative, harboring <i>sigH</i> ORF and its promoter region of NCTC8325, Ap ^r , Em ^r	This study
PLI50	Shuttle vector between <i>E. coli</i> and <i>S. aureus</i> , Ap ^r , Cm ^r	Addgene, [30]
PLI50 <i>int11</i>	PLI50 derivative, harboring Φ11 <i>int</i> ORF and its promoter region of NCTC8325, Ap ^r , Cm ^r	This study

^aAp^r, ampicillin resistant; Cm^r, chloramphenicol resistant; Em^r, erythromycin resistant; Kan^r, kanamycin resistant.