

Table S4. Plasmids used in this study.

Plasmid	Genotype ^a	Origin	Source/Reference ^b
pCP20	<i>bla cat cl875 repA(Ts) P_R::flp</i>	pSC101	[1]
pInt-ts	<i>bla cl875 repA(Ts) P_R::int^h</i>	pSC101	[2]
pTB63	<i>tetA P_{native}::ftsQAZ</i>	pSC101	[3]
pHC432	<i>cat attλ P_{ara}::slmA</i>	R6K	[4]
pHC739	<i>cat attλ P_{tac}::sulA</i>	R6K	[5]
pHC800	<i>cat P_{tac}::empty</i>	ColE1	[5]
pTK1	<i>cat P_{tac}::native RBS-mepM</i>	ColE1	This study
pTK2	<i>cat P_{tac}::native RBS-mepS</i>	ColE1	This study
pTK4	<i>cat P_{tac}::native RBS-mepA</i>	ColE1	This study
pTKD4	<i>cat P_{tac}::native RBS-pbpG</i>	ColE1	This study
pTKD8	<i>cat P_{tac}::native RBS-mepM(HLH[393-395]>SLY)</i>	ColE1	This study
pHC859	<i>tetAR attHK P_{tac}::sulA</i>	R6K	[6]
pGL65	<i>cat attλ P_{ara}::phi10 RBS-relA(1-365)</i>	R6K	This study
pGL66	<i>cat attλ P_{tac}::phi10 RBS-mepS</i>	R6K	This study
pGL67	<i>cat attλ P_{tac}::phi10 RBS-mepS(C68A)</i>	R6K	This study
pGL68	<i>cat attλ P_{tac}::phi10 RBS-rcsF</i>	R6K	This study
pGL69	<i>cat attλ P_{ara}::empty</i>	R6K	This study
pGL70	<i>cat attλ P_{tac}::empty</i>	R6K	This study

^a P_{lac}, P_{T7}, P_R, P_{ara}, and P_{tac} indicate the lactose, phage T7, λR, arabinose promoters, and the synthetic fusion promoter of tryptophan and lacUV5, respectively. Where relevant, the status of the ribosome binding site (RBS), either native or the phi10 RBS from phage T7, is indicated.

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6. Yunck R, Cho H, Bernhardt TG. Identification of MltG as a potential terminase for peptidoglycan polymerization in bacteria. *Molecular Microbiology.* 2015;99: 700–718. doi:10.1111/mmi.13258