Table S1. Bacterial strains and plasmids used in this study.

Strain or plasmid	Genotype and/or relevant characteristics	Reference or source
P. aeruginosa		
PAO1 (ATCC15692)	Prototroph	American type culture collection
Δ*lpxO1*	PAO1 derivative with an in-frame deletion in the *lpxO1* (PA4512) coding sequence	This work
Δ*lpxO2*	PAO1 derivative with an in-frame deletion in the *lpxO2* (PA0936) coding sequence	This work
Δ*lpxO1*Δ*lpxO2*	Δ*lpxO1* derivative with an in-frame deletion in the *lpxO2* coding sequence	This work
E. coli		
S17.1λ*pir*	*thi pro hsdRhsdM*$^{+}$*recA RP4-2-Tc::Mu-Km::Tn7 λpir,* Sm^R	Simon *et al.* 1983
Plasmid		
pBluescript II (pBS)	Sequencing vector; ColE1 replicon; Ap^R	Stratagene
pBS *lpxO1*↑ *lpxO1*↓	pBS derivative containing the regions upstream and downstream of the *lpxO1* coding sequence	This work
pBS *lpxO2*↑ *lpxO2*↓	pBS derivative containing the regions upstream and downstream of the *lpxO1* coding sequence	This work
pDM4	Suicide vector; *sacBR, oriR6K*; Cm^R	Milton *et al.* 1996
pDM4Δ*lpxO1*	pDM4 derivative for *lpxO1* in-frame deletion, generated by sub-cloning the *lpxO1*↑ *lpxO1*↓ fragment of pBS *lpxO1*↑ *lpxO1*↓into pDM4, Cm^R	This work
pDM4Δ*lpxO2*	pDM4 derivative for *lpxO2* in-frame deletion, generated by sub-cloning the *lpxO2*↑ *lpxO2*↓ fragment of pBS *lpxO2*↑ *lpxO2*↓into pDM4, Cm^R	This work
pME6032	Shuttle vector for IPTG inducible expression in *P. aeruginosa*, Tc^R	Heeb *et al.* 2002
pME*lpxO1*	pME6032 derivative carrying the *lpxO1* coding sequence under the control of the IPTG-inducible promoter	This work
pME*lpxO2*	pME6032 derivative carrying the *lpxO2* coding sequence under the control of the IPTG-inducible promoter	This work

Reference non included in the main text:

Simon, R.; Priefer, U; Pühler, A. A broad host range mobilization system for *in vivo* genetic engineering: transposon mutagenesis in Gram negative bacteria. *Bio/Technology*. **1983**, *1, 784-790*.