

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

Strain or plasmid	Relevant characteristic(s) ^a	Source or reference ^b
<i>P. aeruginosa</i>		
PAO1ut	Our laboratory PAO1 strain used as a wild type	[1]
SAa	Deletion of <i>coxBA</i> -PA0107- <i>coxC</i> , derivative of PAO1ut	This study
PAO1ut-Sm	PAO1ut labeled with Sm ^r	This study
SAa-Tc	SAa labeled with Tc ^r	This study
QXAa	Deletion of <i>cyoABCDE</i> , <i>cioAB</i> , <i>ccoN1O1Q1P1</i> , and <i>ccoN2O2Q2P2</i> , derivative of PAO1ut	[2]
QXAaS1	Suppressor mutant of QXAa; able to grow aerobically in glutamate medium	This study
QXAaS2	Suppressor mutant of QXAaS1; able to grow aerobically in LB medium	This study
QXAaS3	Suppressor mutant of QXAaS1; able to grow aerobically in LB medium	This study
QXCi	Deletion of <i>cyoABCDE</i> , <i>coxBA</i> -PA0107- <i>coxC</i> , <i>ccoN1O1Q1P1</i> , and <i>ccoN2O2Q2P2</i> , derivative of PAO1ut	[2]
ROX1	Deletion of <i>roxSR</i> , derivative of PAO1ut	[1]
RPOS1	Deletion of <i>rpoS</i> , derivative of PAO1ut	[1]
PTO5	Deletion of <i>cyoABCDE</i> , <i>cioAB</i> , <i>coxBA</i> -PA0107- <i>coxC</i> , <i>ccoN1O1Q1P1</i> , and <i>ccoN2O2Q2P2</i> , derivative of PAO1ut	[2]
PAcoxLac	PAO1ut <i>cox::lacZ</i> transcriptional fusion	[1]
PAcioLac	PAO1ut <i>cio::lacZ</i> transcriptional fusion	[1]
QXAacoxLac	QXAa <i>cox::lacZ</i> transcriptional fusion	This study
QXAacioLac	QXAa <i>cio::lacZ</i> transcriptional fusion	This study
QXAaS1coxLac	QXAaS1 <i>cox::lacZ</i> transcriptional fusion	This study
QXAaS1cioLac	QXAaS1 <i>cio::lacZ</i> transcriptional fusion	This study
<i>E. coli</i>		
JM109	Host strain for DNA manipulation	[3]
S17-1	C600::RP-4 2-(Tc::Mu)(Kan::Tn7) <i>thi pro hsdR hsdM^r recA</i>	[4]
Plasmids		
pBR322	Source of Tc ^r gene cassette	[3]
pHP45Ω	Source of Sm ^r gene cassette	[5]
pGEM-T Easy	Vector for TA cloning, Ap ^r	Promega
pMMB67EH	IncQ, expression vector; Ap ^r , Cb ^r	[6]
pEX-Δcox	Plasmid for <i>coxBA</i> -PA0107- <i>coxC</i> mutation	[3]
pQF50	<i>lacZ</i> promoter probe vector; Ap ^r , Cb ^r	[7]
pUC18T-mini-Tn7T-Gm	Mini-Tn7T vector	[8]
mini-Tn7-Sm	Derivative of pUC18T-mini-Tn7T-Gm used to move Sm ^r	This study
mini-Tn7-Tc	Derivative of pUC18T-mini-Tn7T-Gm used to move Tc ^r	This study
pMMB-cox	<i>coxBA</i> -PA0107- <i>coxC</i> on pMMB67EH	This study
pMMB-rpoS	<i>rpoS</i> on pMMB67EH	[1]
pQF-PcoxB-wt	<i>coxB::lacZ</i> transcriptional fusion plasmid with the wild-type promoter sequence, a derivative of pQF50	This study
pQF-PcoxB-sbs	<i>coxB::lacZ</i> transcriptional fusion plasmid with an insertion mutation of QXAaS2 at the RpoS binding site, a derivative of pQF50	This study
pQF-PcoxB-rbs	<i>coxB::lacZ</i> transcriptional fusion plasmid with a point mutation of QXAaS2 at the ribosome binding site, a derivative of pQF50	This study
pQF-PcoxB-sbs-rbs	<i>coxB::lacZ</i> transcriptional fusion plasmid with the mutations of QXAaS2 at the RpoS binding site and ribosome binding site, a derivative of pQF50	This study
pQF-PcoxB-sbs-rbs (S3)	<i>coxB::lacZ</i> transcriptional fusion plasmid with the mutations of QXAaS3 at the RpoS binding site and ribosome binding site, a derivative of pQF50	This study
pQF-PcoxB-wt-TL	<i>coxB::lacZ</i> translational fusion plasmid with wild-type promoter sequence, a derivative of pQF50	This study
pQF-PcoxB-sbs-TL	<i>coxB::lacZ</i> translational fusion plasmid with an insertion mutation of QXAaS3 at the RpoS binding site, a derivative of pQF50	This study
pQF-PcoxB-sbs-rbs-TL	<i>coxB::lacZ</i> translational fusion plasmid with the mutations of QXAaS3 at the RpoS binding site and ribosome binding site, a derivative of pQF50	This study
pUC-cox-lacZ	Mini-Tn7T; <i>cox::lacZ</i> transcriptional fusion; Ap ^r , Gm ^r	[1]
pUC-cio-lacZ	Mini-Tn7T; <i>cio::lacZ</i> transcriptional fusion; Ap ^r , Gm ^r	[1]

a. Ap^r, ampicillin resistant; Cb^r, carbenicillin resistant; Gm^r, gentamicin resistant; Tc^r, tetracycline resistant; Sm^r, streptomycin resistant.

b. The procedures for construction of plasmids and mutant strains are described in the main text.

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