Table S1 Strains and plasmids used in this study

Strain(s) or Plasmid	Genotype or Phenotype	Source or Reference
E. coli strains		
DH5α		Lab stock
DH5α-pUCP20-ptrA	DH5α carrying pUCP20-ptrA plasmid	This study
P. aeruginosa strains		
PAO1 Wild type		Lab stock
PAO1-pUCP-Red	PAO1 carrying pUCP-Red plasmid; Car^r	This study
PAO1(ΔptrA)	ptrA replacement mutant of PAO1; Gm^r	This study
PAO1(ΔptrA-p-ptrA)	PAO1(ΔptrA::Gm) complementation strain carrying pUCP20-ptrA plasmid; Car^r	This study
PAO1-pUCP20	PAO1 carrying pUCP20 plasmid; Car^r	This study
PAO1(ΔptrA)-pUCP20	PAO1(ΔptrA) carrying pUCP20 plasmid; Car^r	This study
Plasmids		
pJQ200SK	Gm^r plasmid	Lab stock
pUCP-Red	pUCP plasmid carrying Red recombinase gene (containing exo, bet and gam genes regulated by arabinose promoter); Car^r	1
pUCP20	Car^r	2
pUCP20-ptrA	ptrA gene insertion in pUCP20 plasmid; Car^r	This study

1.   Xu X, Yu H, Zhang D, et al. Role of ppGpp in Pseudomonas aeruginosa acute pulmonary infection and virulence regulation. *Microbiol Res*. Nov 2016;192:84-95. doi:10.1016/j.micres.2016.06.005

2.   Li K, Yang G, Debru AB, et al. SuhB Regulates the Motile-Sessile Switch in Pseudomonas aeruginosa through the Gac/Rsm Pathway and c-di-GMP Signaling. *Front Microbiol*. 2017;8:1045. doi:10.3389/fmicb.2017.01045

Table S2 PCR and quantitative real-time PCR (qRT-PCR) primers used in this study.

Gene	Sequence	Template	Restriction enzymesite
ptrA Knockout Up-F	ATGC<u>AAGCTT</u>GGTTGAACTCGTGCAACAGC		*Hind* III
ptrA Knockout Up-R	gcaaccttgggcagcagcGGACAAGGAAAACTGCTGATCG	PAO1 genome	
Gm^r-F	GCTGCTGCCCAAGGTTGC		
Gm^r-R	CCGATCTCGGCTTGAACGA	pJQ200SK plasmid	
ptrA Knockout Down-F	tcgttcaagccgagatcggGCAGTGAAGGTACGCATGG		
ptrA Knockout Down-R	GCTA<u>GAATTC</u>CGCAGCAAATCGAGTTCGAG	PAO1 genome	*EcoR* I
ptrA complementary verification-F	GGGGCGAGGACCAGCAGG		
ptrA complementary verification-R	CACCGGTACGGTCATCCCG	PAO1 genome	
Red-F	ATTATGACAACTTGACGGCTAC		
Red-R	TTCTTCGTCTGTTTCTACTGG	pUCP-Red plasmid	
qRT-PCR primers			
exoS-F	CTCTACACCGGCATTCACTA		
exoS-R	CTTCACTACCTGTTCAGCCT	PAO1 genome	
exoT-F	CATCTCAGCAGAACCCGTC	PAO1 genome	

exoT-R	CTCGATGATCGCCACGAAGG	
exsA-F	CTGGCGAGTTGCTTTTCGTC	PAO1 genome
exsA-R	ACGCTCGACTTCACTCAACA	
lasA-F	CTACAGCATCAACCCGAAAG	PAO1 genome
lasA-R	TAGCGCCGCGACAACT	
lasB-F1	GTTCTATCCGCTGGTGTCG	PAO1 genome
lasB-R1	CGCTGCCCTTCTTGATG	
rhlA-F2	GGCGATCGGCCATCT	PAO1 genome
rhlA-R2	AGCGAAGCCATGTGCTGAT	
rhlB-F	AAGCGCATCTTCACCCAGT	PAO1 genome
rhlB-R	TGGCATAGAAGTCTCCCTGC	
pqsA-F	GACCGGCTGTATTCGATTC	PAO1 genome
pqsA-F	GCTGAACCAGGGAAAGAAC	
pqsE-F	GATGATGACCTGTGCCTGTT	PAO1 genome
pqsE-R	CGCCCAAACCAATTCGGCAT	
gacA-F	GTCTTCGGCGACAGGCAC	PAO1 genome
gacA-R	CTGAAGTCCTTCCAGCCG	
rsmA-F	ATGCTGATTCTGACTCGTC	PAO1 genome
rsmA-R	GGATGCGCTGGTAAATTTC	
rsmY-F	AGGACATTGCGCAGGAAG	PAO1 genome

rsmY-R	TTTTGGGCGGGGTTTTGCA	
rsmZ-F	CGTACAGGGAACACGCAAC	
		PAO1 genome
rsmZ-R	GTATTACCCCGCCCACTCTT	
16S rRNA-F	GAGGAAGGTGGGGATGACGT	
		PAO1 genome
16S rRNA-F	AGGCCCGGGAACGTATTCAC	