Table S1. Strains, plasmids and phages used in the study

Strain or plasmid	Relevant characteristics	Source
P. aeruginosa		
PAO1	Reference strain, derivative of PAO	(1)
Δ*exsA*	*exsA* knockout mutant of PAO1; Gm^r	(2)
Δ*lon*	*lon* deletion mutant of PAO1	(3)
Δ*lon*/*p-lon*	*lon* complement strain，derived from Δ*lon* and pAK1900-*lon*; Cb^r	(3)
Phage		
PaoP5	*P.aeruginosa* phage	(4)
PaoP5Δ*dap2*	Knockout *orf004* in PaoP5	This study
PaoP5Δ*dap1*Δ*dap2*	Knockout *orf014* in PaoP5	This study
PaoP5Δ*orf014*	Knockout *orf014* in PaoP5	This lab
PAO1/pME6032-*dap2*	Overexpression of *orf004* using pME6032 plasmid in PAO1	This study
PAO1/pUCP24-*dap2*	Overexpression of *orf004* using pUCP24 plasmid in PAO1	This study
PAO1/*p-dap1*	Overexpression of *orf003* using pHERD20T plasmid in PAO1	This lab
PAO1/*p-dap2*	Overexpression of *orf004* using pHERD20T plasmid in PAO1	This study
PAO1/*p-dap1dap2*	Overexpression of *orf003orf004* using pHERD20T plasmid in PAO1	This study
PAO1/*p-orf050*	Overexpression of *orf050* using pHERD20T plasmid in PAO1	This lab
E. coli		
DH5α	*F – φ80lacZ ΔM15 Δ(lacZYA-argF) U169 recA1 endA1 hsdR17(rk–, mk+) phoA supE44 thi-1 gyrA96 relA1 tonA*	Stratagene
BL21（DE3）	*F-, ompT, hsdSB (rBB - mB -), gal, dcm (DE3)*	Stratagene
BTH101	*F-, cya-99, araD139, galE15, galK16, rpsL1 (Strr), hsd R2, mcrA1, mcrB1*	(5)
XL1-BlueMRF' Kan H	Host strain for propagating pBT and pTRG recombinants;*Δ(mcrA)183Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac* [F' *proAB* $lacI^q$ *Z ΔM15* Tn5(Kn^r)]	Agilent
XL1-BlueMRF' Kan R	Report strain of BacterioMatch II two-hybrid system;*Δ(mcrA)183Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac* [F' $laqI^q$ *HIS3 aadA* (Kn^r)]	Agilent
Phage		
PaoP5	*P.aeruginosa* phage	(4)

PaoP5Δ*dap2*	Knockout *orf004* in PaoP5	This study
PaoP5Δ*dap1*Δ*dap2*	Knockout *orf003orf004* in PaoP5	This study
PaoP5Δ*orf014*	Knockout *orf014* in PaoP5	(4)
Plasmids		
pME6032	Plasmid for over-expression of gene in PAO1 and PaoP5	(6)
pMMB67EH-Flag	pMMB67EH vector with Flag tag coding sequence	(7)
pHERD20T(Gm^R)	Plasmid for over-expression of gene in PaoP5	(8)
pUCP24	Plasmid for over-expression of gene in PaoP5	(9)
pUT18C	Plasmid for bacterial-two hybrid assays	(5)
pKT25	Plasmid for bacterial-two hybrid assays	(5)
pET28a	Plasmid with His tag for protein expression and purification	(10)
pTCPLS	Plasmid with CRISPPR-cas9 for gene knockout in PaoP5	(11)
pMS402	Plasmid with lux-based reporters for Luminescence screening assays	(12)
pBT	p15A origin of replication, *lac-UV5* promoter, λ cI open reading fram; Cm^r	Agilent
pTRG	ColE1 origin of replication, lpp promoter, lac-UV5 promoter, RNAPα open reading frame; Tc^r	Agilent
pBT-LGF2	Interaction control plasmid encoding the dimerization domain (40 amino acid residues) of the Gal4 transcriptional activator protein; Cm^r	Agilent
pTRG-GAII 1^p	Interaction control plasmid encoding a domain (90 amino acid residues) of the mutant form of the GaII 1 protein; Tc^r	Agilent
pKD-*exsA*	pMS402 containing *exsA* promoter region; Kn^r, Tmp^r	(13)
pKD-*exsC*	pMS402 containing *exsCEB* promoter region; Kn^r, Tmp^r	(13)
pKD-*exoS*	pMS402 containing *exoS* promoter region; Kn^r, Tmp^r	(13)
pKD-*exoT*	pMS402 containing *exoT* promoter region; Kn^r, Tmp^r	(13)

pKD-*exoY*	pMS402 containing *exoY* promoter region; Kn^r, Tmp^r	(13)
mini-CTX-*exsA*(p_{exsC})-FLAG	Mini-CTX-*lacZ* containing the entire *exsA* gene driven by *exsCEBA* promoter fused with FLAG tag at C-terminal; Tc^r	This lab
pGEX-6p-1	Expression vector with N-terminal GST tag; Amp^r	This lab
pGEX-6p-1-*dap2*	pGEX6p-1 derivative for expression of *dap2*	This study
pGEX-6p-1-*dap2*^{V52K}	pGEX6p-1 derivative for expression of *dap2*^{V52K}	This study
pGEX-6p-1-*dap2*^{A64K}	pGEX6p-1 derivative for expression of *dap2*^{A64K}	This study
pGEX-6p-1-*dap2*^{N79A}	pGEX6p-1 derivative for expression of *dap2*^{N79A}	This study
pGEX-6p-1-*dap2*$^{V52KA64K N79A}$	pGEX6p-1 derivative for expression of *dap2*$^{V52KA64K N79A}$	This study
pGEX-6p-1-*dap2*^{E97AE99A}	pGEX6p-1 derivative for expression of *dap2*^{E97AE99A}	This study
pET28a-*exsA*	Protein expression construct, the entire gene of *exsA* cloned in pET28a vector	This study
pET28a-*dap1*	Protein expression construct, the entire gene of *dap1* cloned in pET28a vector	(4)
pET28a-*hnh*	Protein expression construct, the entire gene of *orf050* cloned in pET28a vector	This study
pET28a-*lon*	Protein expression construct, the entire gene of *lon* cloned in pET28a vector	This study
pBT-*dap2*	pBT plasmid containing the entire *dap2* gene	This study
pTRG-*exsA*	pTRG plasmid containing the entire *exsA* gene	This study
pUT18C-*dap2*	*dap2* cloned into pUT18C for complementation	This study
pKT25-*dap1*	*dap1* cloned into pKT25 for complementation	This study
pKT25-*hnh*	*hnh* cloned into pKT25 for complementation	This study
pKT25-*lon*	*lon* cloned into pKT25 for complementation	This study

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