Supplementary table S1. Bacterial strains, plasmids, phages and oligonucleotides

Strain	Relevant Genotype	Origin or reference
Pseudomonas aeruginosa		
PAO1		(Stover *et al.*, 2000)
PA14		(Rahme *et al.*, 1995)
Escherichia coli		
C-1a	*E. coli C*, prototrophic	(Sasaki and Bertani, 1965)
C-5708	C-1a *rpsL31*	laboratory collection
C-5868	C-1a Δ*pnp-751* Δ*bcsA*::*cat Tn10*	(Carzaniga *et al.*, 2009)
C-5898	C-1a *tetRp αlacZ tetAp-kanR*	this work
C-5899	C-1a *tetRp-αlacZ tetAp-aadgfp*	this work
C-5901	C-1a *Δbio tetRp- αlacZ tetAp-aadgfp* $Pcat^{+}$*-tetR:*kan^{R}	this work
C-5907	C-1a *Δbio tetRp- αlacZ tetAp-aadgfp* $Pcat^{+}$*-tetR*	this work
C-5912	C-1a *tetRp- αlacZ tetAp-*$rpsL^{+}$*:cat*	this work
C-5916	C-5708 *tetRp-αlacZ tetAp-*$rpsL^{+}$*:cat*	this work
C-5918	C-5708 *tetRp- αlacZ tetAp-*$rpsL^{+}$	this work
C-5920	C-5708 *tetRp- αlacZ tetAp-*$rpsL^{+}$ *Pcat*-10^{CATTTA} - *tetR:*kan^{R}	this work
BW25113	*E. coli* K-12	(Datsenko and Wanner, 2000)
DH10B		(Grant *et al.*, 1990)
KG264	BW25113 $Pcat^{+}$*-tetR:*kan^{R}	this work

KG265	BW25113 *Pcat*-10^{CATTTA} *-tetR:kan*^{R}	this work

Plasmids and phage	**Relevant characteristics**[a]	**Reference**
pBAD2-bgaB	carries *Bacillus stearothermophilus bgaB* gene	(Klinkert *et al.*, 2012)
pBAD24-Δ1	pBAD24 derivative	(Carzaniga *et al.*, 2012)
pGM362	carries pHP45 t_{Ω} terminator	(Briani *et al.*, 2000)
pGM742	CamR; oriVColD	(Regonesi *et al.*, 2004)
pGM930	pBAD24-Δ1 derivative carrying pHP45 t_{Ω} terminator downstream of *araBp*	this work
pGM931	pHERD20T derivative carrying *araBp*- t_{Ω} region of pGM930	this work
pGM932	pGM742 derivative carrying the *lacZ*α- *tetRp-tetO-tetAp- kan*^{R} cassette	this work
pGM956	pGZ119HE derivative. Carries pQE31-S1 Shine-Dalgarno and ATG in frame with ST-TIP2.	this work
pGM957	pGZ119HE derivative. Carries pQE31-S1 Shine-Dalgarno and ATG out of frame with ST-TIP2.	this work
pGM978	pGM931 derivative, contains *bgaB* under pBAD control	this work
pGM980	pGM978 derivative, carries *ptxS* (2487532-2488013) translationally fused to *bgaB* .	this work
pGM981	pGM978 derivative, carries *ptxS* (2487779-2488013) translationally fused to *bgaB*	this work
pGM989	pGM978 derivative, carries *recA* (2334354-2334277) translationally fused to *bgaB*	this work
pGM2011	pGM931 derivative with the insertion of sfGFP	this work
pGM2012	pGM2011 derivative, carries PA5194 (5846939-5847277) translationally fused to sfGFP	this work
pGM2013	pGM2011 derivative, carries PA5194 (5847080-5847277) translationally fused to sfGFP	this work
pGM2013CCC	pGM2013 derivative, carries the substitution of the $TTT_{5847127\ -5847129}$ sequence with three cytidines	this work
pGM2013AAA	pGM2013 derivative, carries the substitution of the $TTT_{5847127\ -5847129}$ sequence with three adenosines	this work

pGM2016	pGM2011 derivative, carries *recA* (2334354-2334277) translationally fused to sfGFP	this work
pGZ119HE	*oriVColD*; CamR ; P_{tac}	(Lessl *et al.*, 1992)
pHERD20T	*P. aeruginosa-E. coli* shuttle vector	(Qiu *et al.*, 2008)
pKD46	carries λ RED recombination genes	(Datsenko and Wanner, 2000)
pPA5194-HA	pGM931 derivative, carries PA5194 (5847080-5847931) translationally fused to HA	this work
pPtxS-HA	pGM931 derivative, carries *ptxS* (2487779-2488875) translationally fused to HA	this work
pQE31S1	AmpR; ColE1; *rpsA* under P_{tac} promoter	(Sukhodolets and Garges, 2003)
pUC19	AmpR; ColE1	(Yanisch-Perron *et al.*, 1985)
pWH2354	CamR; p15A; *lacI*^{q}; *trxA-TIP2* under P_{tac} promoter	(Georgi *et al.*, 2012)
pXG-10SF	pSC101* replicon; CamR	(Corcoran *et al.*, 2012)
pZR80-2	carries the chimeric *aadA::gfp* gene	(Rizzi *et al.*, 2008)
P1 HTF	High transduction frequency phage P1 derivative	(Wall and Harriman, 1974)

Oligo	**Sequence**[b]
1396	AAGGAGGTGATCCAGCCGCA
2600	CTATCAGTGATAGAGAAAAGTGAAATGATTGAACAAGATGGATTG
2601	TAGTCTCGGTCCCCCATAAAAAAGGGACCTCTAGGGTCCCCAAGTCGGTCA TTTCGAACCCC
2602	CATTAATTCCTAATTTTTGTTGACAC
2603	TTCACTTTTCTCTATCACTGATAG
2604	GAAATTCAGTAAAAGCCTCCGACCGGAGGCTTTTGACTGGCGGGTGTCGGG GCTG
2605	GTGTCAACAAAAATTAGGAATTAATGA TGACCATGATTACGCCAAGC

2606 ATGTCGCGGTTGATCCTGAAGGAAAAC CTC

2617 AGCTTATTAAAGAGGAGAAATTAACTA TGAGAGGCATG

2618 CCTCTCATAGTTAATTTCTCCTCTTTAATA

2636 GGTTCGAAATGACCGACTTGGGGACCCTAGAGGTCCCTTTTTTATGGGGGG TGTAGGCTGGAGCTGCTT

2638 TTGATCCTGAAGGAAAAACCTCGCGCCTTACCTGTTGAGTAATAGTCTCGGT TAAAAAATGCCCTCTTGGGTTA

2683 TGATAGAGTTATTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAATGG ATCCCGAA GCGGTG

2684 GACCTCTAGGGTCCCCAAGTCGGTCATTTCGAACCCCAGAGTCCCGCTCAT GATGCCTGGAATTAATTCC

2685 AGCCTGCTTTTTTATACTAACTTGAGCGAAACGGGAAGGTAAAAAGACAAC TTCGTCTGTTTCTACTGG

2686 CCATGGGGCTTCTCCAAAACGTGTTTTTTGTTGTTAATTCGGTGTAGACTTT GTGTAGGCTGGAGCTGC

2689 ACCCGGGAGTGGTGGTGGCGGCAGCGGCGGTGGTGGATCCGGTGGCGGTG GCTC

2690 TACCGGTACCGCCGCCACCCGAACCGCCACCGCCAGAGCCACCGCCACCGG A

2691 GGCGGCGGTACCGGTAGCGATAAAATTATTCACCTGACT

2692 CCC**GAATTC**CGTTACCAATGCCACATCCAC AT

2693 CCCTGCAGCATGCAAACCCGGGAGTGGTG GT

2712 TAAAAAATGCCCTCTTGGGTTACATATGAA TATCCTCCTTAGT

2713 TCAGTGATAGAGAAAAGTGAAATGGCAAC AGTTAACCAGC

2714 AAGTCGGTCATTTCGAACCTTACTTAACGGA GAACC

2739 GAATTAAGCTTGCATGCAACC

2740 GCCGCCACCACCACTCC

2803 CTC**GGTACC**AGTAAAGGAGAAGAACTTTTCAC

2804 CTC**CTGCAG**CTATTTGTATAGTTCATCCATGC

2811 GGTTTCAACTCCTGGCATCC

2846 GCG**CCATGG** GGGAGCATATGCGAATCTTC

2847 CCCTGATCTCGACCTGCA

2850 GGG**CCATGG**CTCGCCGATTGATCGCTTTC

2851 CCC**GAATTC**ATGGTCGATGGCGCGCTC

2852 GGG**CCATGG**GGTTTCAACTCCTGGCATCC

2865 TCAACTTAGCATCTTCATACC

2871 GAATTGGGACAACTCCAGTG

2909 *CTAATACGACTCACTATAG*GGTTTCAACTCCTGGCATCC

2910 GGCCTCGGCCACCTGGTT

2915 TCT**CCATGG**CAACAGAACATATTGACTATCC

2916 CAC**GAATTC**TTTCTGTTTGTTTTCGTCGATAG

2928 TCT**GGTACC**CAACAGAACATATTGACTATCC

2929 CAC**GGTACC**TTTCTGTTTGTTTTCGTCGATAG

2976 *CTAATACGACTCACTATAG*GGCCTCGGCCACCTGGTT

3003 GGAACGGAGAGGCATTATCC

3004 GGG**GGTACC**CTTGTCGAAGAGCCAGAAC

3005 GGG**GGTACC**CTGCGCTCGAGATCGAC

3006 GGG**GGTACC**GCTTCGTGACAGTCGTAC

3040 *CTAATACGACTCACTATAG*GGCTTCGTGACAGTCGTAC

3041 GCAGGAGCGCCAGAAGAT

3141	ATGGATAATGCCTCTCCGTT
3142	AACGGAGAGGCATTATCCATAGGGTCGTTTCCCC
3143	AACGGAGAGGCATTATCCATATTTTCGTTTCCCC
3144	TCAAGCGTAGTCTGGGACGTCGTATGGGTAGGCCGAGTCGCGGACCA
3145	TCAAGCGTAGTCTGGGACGTCGTATGGGTAGGCCGAGTCGCGGACCA
3150	*CTAATACGACTCACTATAG*GGCCCCAGAGCCACAGG

[a] *P.aeruginosa* coordinates refer to Genbank accession numbers NC_002516; *E. coli recA* gene coordinates refer to Genbank Accession Number U00096.2.
[b] Boldface characters, restriction sites; italics, T7 promoter

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