A *Burkholderia thailandensis* multidrug efflux pump with unexpected roles in antibiotic resistance

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Table S1. Thermal stability of reduced and oxidized OstR

Protein: Ligand	**T_m (°C)**
OstR (reduced)	34.1 ± 0.1
OstR: Bipyridyl	33.4 ± 0.2
OstR: DNA (1: 2)	39.3 ± 0.2
OstR: $ZnCl_2$ (1: 100)	37.2 ± 0.1
OstR: H_2O_2 (1: 100)	38.5 ± 0.3
OstR: CHP (1: 100)	39.9 ± 0.3
OstR: tBHP (1: 100)	41.6 ± 0.1

Table S2. Affinity of OstR variants for *emrB* promoter DNA

Protein	Kd (nM)	Hill coefficient (n_H)
OstR	6.7 ± 0.8	1.9 ± 0.3
H_2O_2-OstR	9.7 ± 1.1	1.9 ± 0.4
$CuCl_2$-OstR	6.5 ± 1.0	1.8 ± 0.4
OstR-C3A	17.5 ± 2.3	1.6 ± 0.3
OstR-C4A	23.4 ± 3.2	1.2 ± 0.3
OstR-C169A	539 ± 58	1.9 ± 0.2

Table S3. Thermal stability of cysteine variants

Protein	Reduced	Bipyridyl	$ZnCl_2$ (1:100)	DNA (1:2)	H_2O_2 (1:100)	$CuCl_2$ (1:100)
OstR-C3A	44.7 ± 0.1	41.5 ± 0.1	50.1 ± 0.5	67.5 ± 0.6	nt	nt
OstR-C4A	50.6 ± 0.1	50.4 ± 0.2	51.1 ± 0.3	50.2 ± 0.2	nt	nt
OstR-C169A	nt	nt	56.8 ± 0.3	41.2 ± 0.2	nt	nt

Tm ± SD (°C). nt = no transition.

Table S4. Primer sequences

Cloning, mutagenesis, and amplification of *emrB* promoter DNA	
OstR_tran_Fw	CGTTTTTCCTCATATGCACTGTTGC
OstR_tran_Rv	CGAGGGAATTCCATGCTCTTTC
I21_C3A_Fw	GCGGCAGCCATATGCACGCGTGCGGTTCGCGCAATCGACCGGAC
I21_C3A_Rv	GAACCGCACGCGTGCATATGGCTGCCGCGCGGCACCAGGC

I21_C4A_Fw	GCGGCAGCCATATGCACTGTGCCGGTTCGCGCAATCGACCGGAC
I21_C4A_Rv	GAACCGGCACAGTGCATATGGCTGCCGCGCGGCACCAGGC
I21_C169A_Fw	GATTCCGCAGCCGCCGCGTCGATCGCCGAGCCGCCGC
I21_C169A_Rv	GATCGACGCGGCGGCTGCGGAATCCGCGGCGCCC
BTH_22int_Fw	GGTAAGCGCTGACCGGGA A
BTH_22int_Rv	AGCCATGCGTCTCTCCT
Complementation and mutant verification	
LacZ_148	GGGTAACGCCAGGGTTTTCC
BTH_21_Fw	CACCGGGCAAGGCGGC
Cre_del21_Fw	CACCGGGCAAGGCGGC
Cre_del21_Rv	GACGAAGCCCTTCTTCTCG
Tra_delE_Fw	TGACAAGACACTTACTGTCGGTC
Tra_delE_Rv	GAGATCACCCACGTGCCTTC
OstR_XbaI_Fw	GATCTTCTAGACGCGATGCGGACCGGACA
OstR_KpnI_Rv	AAGCGGGTACCGTCGCAGCCA
Con_pBBR_XbaI	GTAATACGACTCACTATAGGGC
Con_pBBR_KpnI	GCAATTAACCCTCACTAAAGG
qRT-PCR	
OstrR_auto_Fw	ATGCACTGTTGCGGTTCGC
OstR_auto_Rv	ATAGCCGAGGCTCGATTCGAG
EmrB_F1	GGATCACCGACAACTACACG
EmrB_R1	TTGAACCAGTCACGGTCCTT
AmrB_Fw	TGTCGATGAGCAAGGTCGTG
AmrB_Rv	TGATCTGCTTCATCGCCTTCA C
BpeF_Fw	GATCACCGTCACGTTCAAGCT
BpeF_Rv	GGCGATCCTTCACGTTGATGAG
Glusyn_qPCR_Fw	GCAAGAAGAGCCACGAAATC
Glusyn_qPCR_Rv	CCATCTCCTCGCGATAGAAC