

S1 Table. Strains, plasmids, and primers used in this study

Strains

Designation	Genotype or description	Strain ID	Reference
<i>A. baumannii</i>			
17978	cerebrospinal fluid isolate, AbaAL44 ⁺ ("UN") type, ATCC	EGA83	[1, 2]
17978 <i>bfmS</i> *	ATCC 17978 <i>bfmS</i> (G467Dfs*19)	EGA127	[3]
17978 Δ <i>bfmS</i>	ATCC 17978 Δ <i>bfmS</i> :: <i>aacC1</i>	EGA195	[3]
17978 Δ <i>bfmRS</i>	ATCC 17978 Δ <i>bfmRS</i> :: <i>aacC1</i>	EGA495	[7]
17978 Δ <i>itrA</i>	ATCC 17978 Δ <i>itrA</i>	EGA295	[3]
17978 Δ <i>wzc</i>	ATCC 17978 Δ <i>wzc</i> :: <i>aacC1</i> , isolate 27	EGA106-27	[3]
17978 Δ <i>wzc wzc</i> ⁺	ATCC 17978 Δ <i>wzc</i> :: <i>aacC1</i> , <i>wzc</i> ⁺ by marker rescue of EGA106-27	EGA260	[3]
17978 Δ <i>dsbA</i>	ATCC 17978 Δ <i>dsbA</i>	NRA134	This work
17978 Δ <i>lon</i>	ATCC 17978 Δ <i>lon</i>	JBA154	This work
17978 Δ <i>gtrOC3</i>	ATCC 17978 Δ <i>gtrOC3</i>	JBA160	This work
17978 Δ <i>gtrOC4</i>	ATCC 17978 Δ <i>gtrOC4</i>	JBA161	This work
17978 Δ <i>gtr6</i>	ATCC 17978 Δ <i>gtr6</i>	JBA202	This work
17978 Δ <i>rnaA</i>	ATCC 17978 Δ <i>rnaA</i>	JBA211	This work
17978 Δ <i>slt</i>	ATCC 17978 Δ <i>slt</i>	EGA520	This work
17978 Δ <i>rnaA</i> Δ <i>bfmRS</i>	ATCC 17978 Δ <i>rnaA</i> Δ <i>bfmRS</i>	JBA234	This work
17978 Δ <i>dsbA</i> Δ <i>bfmRS</i>	ATCC 17978 Δ <i>dsbA</i> Δ <i>bfmRS</i>	JBA235	This work
17978 <i>bfmS</i> * Δ <i>itrA</i>	ATCC 17978 <i>bfmS</i> (G467Dfs*19) Δ <i>itrA</i>	JBA210	This work
17978 Δ <i>bfmS</i> * Δ <i>gtr6</i>	ATCC 17978 Δ <i>bfmS</i> :: <i>aacC1</i> Δ <i>gtr6</i>	JBA208	This work
17978 Δ <i>gtrOC3</i> Δ <i>itrA</i>	ATCC 17978 Δ <i>gtrOC3</i> Δ <i>itrA</i>	JBA212	This work
17978 Δ <i>gtrOC3</i> Δ <i>gtr6</i>	ATCC 17978 Δ <i>gtrOC3</i> Δ <i>gtr6</i>	JBA215	This work
17978 Δ <i>dsbA</i> /-	NRA134 with pYDE152	JBA172	This work
17978 Δ <i>dsbA</i> / <i>dsbA</i>	NRA134 with pJE101 (P(IPTG)- <i>dsbA</i>)	JBA168	This work
17978 Δ <i>lon</i> /-	JBA154 with pYDE152	JBA174	This work
17978 Δ <i>lon</i> / <i>lon</i>	JBA154 with pJE103 (P(IPTG)- <i>lon</i>)	JBA170	This work
17978 Δ <i>gtrOC3</i> /-	JBA160 with pYDE152	JBA171	This work
17978 Δ <i>gtrOC3</i> / <i>gtrOC3</i>	JBA160 with pJE100 (P(IPTG)- <i>gtrOC3</i>)	JBA167	This work
17978 Δ <i>gtrOC4</i> /-	JBA161 with pYDE152	JBA173	This work
17978 Δ <i>gtrOC4</i> / <i>gtrOC4</i>	JBA161 with pJE102 (P(IPTG)- <i>gtrOC4</i>)	JBA169	This work
17978 Δ <i>rnaA</i> /-	JBA211 with pYDE152	JBA218	This work
17978 Δ <i>rnaA</i> /-	JBA211 with pJE127 (P(IPTG)- <i>rnaA</i>)	JBA217	This work
17978 Δ <i>itrA</i> /-	EGA295 with pYDE152	JBA270	This work
17978 Δ <i>itrA</i> / <i>itrA</i>	EGA295 with pJE172 (P(IPTG)- <i>itrA</i>)	JBA271	This work
17978 + P(IPTG)- <i>rnaA</i>	ATCC 17978 WT with pJE127 (P(IPTG)- <i>rnaA</i>)	JBA266	This work
17978 <i>bfmS</i> * + P(IPTG)- <i>rnaA</i>	EGA127 with pJE127 (P(IPTG)- <i>rnaA</i>)	JBA256	This work
17978 + P(IPTG)- <i>dsbA</i>	ATCC 17978 WT with pJE101 (P(IPTG)- <i>dsbA</i>)	JBA349	This work
17978 <i>gtr6440A</i> _{9→8}	Loki non-susceptible derivative of WT ATCC 17978 (<i>gtr6440A</i> _{9→8}), 2 independent isolates	JBA149, JBA267	This work
17978 <i>wzx377T</i> _{9→10}	Loki non-susceptible derivative of WT ATCC 17978 (<i>wzx377T</i> _{9→10})	JBA150	This work
17978 <i>bfmS</i> * <i>gtr6440A</i> _{9→8}	Loki non-susceptible derivative of EGA127 (<i>gtr6440A</i> _{9→8})	JBA151	This work
17978 <i>bfmS</i> * <i>bfmR</i> (G100D)	Loki non-susceptible derivative of EGA127 [<i>bfmR</i> (G100D)]	JBA152	This work

S1 Table (continued)

17978 <i>bfmS*</i> <i>bfmR</i> (T85I)	Loki non-susceptible derivative of EGA127 [<i>bfmR</i> (T85I)]	JBA153	This work
17978 <i>bfmS*</i> <i>gtr6384A</i> _{8→7}	Loki non-susceptible derivative of EGA127 (<i>gtr6384A</i> _{8→7})	JBA261	This work
17978 Δ <i>bfmS</i> <i>gtr6440A</i> _{9→8}	Loki non-susceptible derivative of EGA195 (<i>gtr6440A</i> _{9→8})	JBA268	This work
17978 <i>gtr6440A</i> _{9→8} /-	JBA149 with pYDE152	JBA204	This work
17978 <i>gtr6440A</i> _{9→8} / <i>gtr6</i>	JBA149 with pJE121 (P(IPTG)- <i>gtr6</i>)	JBA205	This work
17978 10840p-GFP	ATCC 17978 WT with pEGE246 (10840p-GFP)	EGA616	[7]
17978 Δ <i>bfmRS</i> 10840p-GFP	EGA495 with pEGE246 (18040p-GFP)	NRA104	This work
17978 Δ <i>dsbA</i> 10840p-GFP	NRA134 with pEGE246 (18040p-GFP)	NRA178	This work
17978 Δ <i>dsbA</i> Δ <i>bfmRS</i> 10840p-GFP	JBA235 with pEGE246 (18040p-GFP)	NRA236	This work
17978 Δ <i>rnaA</i> 10840p-GFP	JBA211 with pEGE246 (18040p-GFP)	NRA238	This work
17978 Δ <i>rnaA</i> Δ <i>bfmRS</i> 10840p-GFP	JBA234 with pEGE246 (18040p-GFP)	NRA240	This work
17978 <i>adcp</i> -GFP	ATCC 17978 WT with pEGE313 (<i>adcp</i> -GFP)	EGA786	[7]
17978 Δ <i>dsbA</i> <i>adcp</i> -GFP	NRA134 with pEGE313 (<i>adcp</i> -GFP)	NRA237	This work
17978 Δ <i>rnaA</i> <i>adcp</i> -GFP	JBA211 with pEGE313 (<i>adcp</i> -GFP)	NRA239	This work
17961	blood isolate, ATCC	EGA56	[1]
19606	urine isolate, ATCC	EGA2M	[1]
19606 Δ <i>bfmS</i>	ATCC 19606 Δ <i>bfmS</i> :: <i>aacC1</i>	EGA216	[3]
AB5075	bone isolate/osteomyelitis, AB5075-UW	EGA714	[4]
AB5075 <i>bfmS</i> ::Tn	AB5075-UW <i>bfmS</i> 115::T26	EGA725	[4]
BAA-1790	sputum isolate (2008, Washington, DC), ATCC	JBA394	[6]
BAA-1790 Δ <i>rnaA</i>	BAA-1790 Δ <i>rnaA</i> , via allele exchange with pJE193	JBA395	This work
BAA-1790 Δ <i>dsbA</i>	BAA-1790 Δ <i>dsbA</i> , via allele exchange with pJE195	JBA396	This work
EGA10	wound isolate, Tufts University Medical Center, ST2	EGA10	This work
EGA65	blood isolate, Tufts University Medical Center, ST2	EGA65	This work
EGA10/-	EGA10 with pYDE152	JBA246	This work
EGA10/ <i>gtr6</i>	EGA10 with pJE121 (P(IPTG)- <i>gtr6</i>)	JBA247	This work
EGA65/-	EGA65 with pYDE152	JBA248	This work
EGA65/ <i>gtr6</i>	EGA65 with pJE121 (P(IPTG)- <i>gtr6</i>)	JBA249	This work
<i>E. coli</i>			
DH5 α	<i>supE44</i> Δ <i>lacU169</i> (ϕ 80 <i>lacZ</i> Δ M15) <i>hsdR17</i> <i>recA1</i> <i>endA1</i> <i>gyrA96</i> <i>thi-1</i> <i>relA1</i>	EGE1	[8]
DH5 λ pir	DH5 α (λ pir) <i>tet</i> ::Mu <i>recA</i>	EGE4	[9]
XL1-blue	<i>recA1</i> <i>endA1</i> <i>gyrA96</i> <i>thi-1</i> <i>hsdR17</i> <i>supE44</i> <i>relA1</i> <i>lac</i> [F' <i>proAB</i> <i>lac</i> ^q Z Δ M15 Tn10 Tc']	AFE81	Stratagene
<i>Bacteriophage</i>			
Loki	vB_AbaS_Loki, lytic <i>Acinetobacter</i> siphovirus isolated from activated sewage sludge	Loki	[10]
Loki*	Derivative of Loki showing enhanced virulence vs 17978 and BAA-1790	JB Φ -15C	This work

S1 Table (continued)

Plasmids

Plasmid	Description	Reference
pUC18	<i>oriColE1</i> MCS Cb ^r	[11]
pSR47S	Conditionally replicating allele exchange plasmid (<i>oriTRP4 oriR6K sacB</i> Km ^r)	[12]
pJB4648	Conditionally replicating allele exchange plasmid (<i>oriTRP4 oriR6K sacB</i> Gm ^r)	[12]
pEGE305	P(IPTG) shuttle vector (<i>ori-pBR322 ori-pWH1277 bla::lac^r-T5lacP</i> Tc ^r)	[7]
pYDE152	P(IPTG) shuttle vector (<i>ori-pBR322 ori-pWH1277 bla::lac^r-T5lacP-MCS</i> Tc ^r)	[13]
pDL1100	<i>Himar1 mariner</i> (Km ^r) delivery plasmid, C9 transposase (<i>ori-pSC101</i> Cb ^r)	[14]
pJE89	pUC18 containing homology arm upstream of <i>gtrOC3</i>	This work
pJE90	pUC18 containing homology arm downstream of <i>gtrOC3</i>	This work
pJE93	pJB4648:: <i>ΔgtrOC3</i> allele exchange construct	This work
pJE91	pUC18 containing homology arm upstream of <i>gtrOC4</i>	This work
pJE92	pUC18 containing homology arm downstream of <i>gtrOC4</i>	This work
pJE94	pJB4648:: <i>ΔgtrOC4</i> allele exchange construct	This work
pJE114	pUC18 containing homology arm upstream of <i>gtr6</i>	This work
pJE115	pUC18 containing homology arm downstream of <i>gtr6</i>	This work
pJE118	pJB4648:: <i>Δgtr6</i> allele exchange construct	This work
pJE122	pUC18 containing homology arm upstream of <i>maA</i>	This work
pJE123	pUC18 containing homology arm downstream of <i>maA</i>	This work
pJE124	pJB4648:: <i>ΔrnaA</i> allele exchange construct	This work
pEGE242	pSR47S:: <i>Δslt</i> allele exchange construct	This work
pEGE133	pSR47S:: <i>ΔbfmRS::aacC1</i> allele exchange construct	[3]
pEGE125	pSR47S:: <i>ΔbfmS::aacC1</i> allele exchange construct	[3]
pEGE181	pSR47S:: <i>ΔitrA</i> allele exchange construct	[3]
pJE95	pUC18:: <i>gtrOC3</i>	This work
pJE99	pUC18:: <i>gtrOC4</i>	This work
pJE120	pUC18:: <i>gtr6</i>	This work
pJE171	pUC18:: <i>itrA</i>	This work
pJE126	pUC18:: <i>maA</i>	This work
pJE97	pUC18:: <i>lon</i>	This work
pJE98	pUC18:: <i>dsbA</i>	This work
pJE100	pYDE152:: <i>gtrOC3</i> (P(IPTG)- <i>gtrOC3</i>)	This work
pJE102	pYDE152:: <i>gtrOC4</i> (P(IPTG)- <i>gtrOC4</i>)	This work
pJE121	pYDE152:: <i>gtr6</i> (P(IPTG)- <i>gtr6</i>)	This work
pJE172	pYDE152:: <i>itrA</i> (P(IPTG)- <i>itrA</i>)	This work
pJE127	pYDE152:: <i>maA</i> (P(IPTG)- <i>maA</i>)	This work
pJE103	pYDE152:: <i>lon</i> (P(IPTG)- <i>lon</i>)	This work
pJE101	pYDE152:: <i>dsbA</i> (P(IPTG)- <i>dsbA</i>)	This work
pEGE246	<i>ACX60_RS18040p-gfpmut3</i> reporter plasmid (<i>ori-pBR322 ori-pWH1277</i> , Tc ^r)	[7]
pEGE313	<i>adcp-gfpmut3</i> reporter plasmid (<i>ori-pBR322 ori-pWH1277</i> , Tc ^r)	[7]
pJE193	pSR47S:: <i>ΔrnaA</i> (BAA-1790) allele exchange construct	This work
pJE195	pSR47S:: <i>ΔdsbA</i> (BAA-1790) allele exchange construct	This work

S1 Table (continued)

Oligonucleotide primers

Primer name	Sequence (5' – 3'; restriction site underlined if present)	RE site(s)
Complementation and localization experiments		
dsbA-F	<u>CGAGCTCTAGAGG</u> AAAAGCTGTAACAATGAAA	SacI
dsbA-R	AAA <u>ACTGCAGG</u> CAATAAACTATTATTTTGCCTTAC	PstI
lon-F	<u>CGAGCTC</u> ATTAGGAGTGCCCATGTCTG	SacI
lon-R	AAA <u>ACTGCAGG</u> TGAATTAGTGACGCGCTGCTTTTG	PstI
gtrOC3-F	<u>CGAGCTCGCTAA</u> AGGACGTTATAAGTTATGAAT	SacI
gtrOC3-R	AAA <u>ACTGCAGG</u> GCTTGCCTACTTATTTTTATCTTTATTTC	PstI
gtrOC4-F	<u>CGAGCTCGATA</u> AAAAATAAGTAGGCAAGCTATGAAAATTG	SacI
gtrOC4-R	AAA <u>ACTGCAGTAA</u> TTAAGTTTTTCAGCAGGCCTTTAT	PstI
gtr6-F	<u>CGAGCTCTAAGG</u> TACTATATGAAAATTGGATTG	SacI
gtr6-R	AAA <u>ACTGCAGC</u> ACCTACGACATCATTATTAGGTACA	PstI
itrA-F	<u>CGAGCTCGACT</u> GTTACCAGCGAATTTATTA	SacI
itrA-R	TG <u>TACTGCAG</u> CCGGCTACTGGTAAA <u>ACTG</u>	PstI
rnaA-F	<u>CGAGCTCAAT</u> GATGGAACATTCTTTTAATTG	SacI
rnaA-R	AAA <u>ACTGCAGG</u> GTTATTGCTCTTAATAACTGCCT	PstI
Gene deletion		
gtrOC4-upF	ACGCGT <u>CGAC</u> GTGCCCGAGTTTTGCTTATC	Sall
gtrOC4-upR	GGGGT <u>ACCCTGA</u> ACAATTTTCATAGCTTGCCTAC	KpnI
gtrOC4-downF	GGGGT <u>ACC</u> GGCCTGCTGAAA <u>ACTTA</u> ATTATTTTTGGTG	KpnI
gtrOC4-downR	AAATAT <u>GCGGCC</u> CGCTATATGCGCTTTGGCTGGT	NotI
gtrOC3-upF	ACGCGT <u>CGACT</u> GACTTGCCAAAAAGATCC	Sall
gtrOC3-upR	GGGGT <u>ACCACAT</u> GGAATTTTATTCATAACTTATAACG	KpnI
gtrOC3-downF	GGGGT <u>ACC</u> TAGGCAAGCTATGAAAATTGTT <u>CAGG</u> T	KpnI
gtrOC3-downR	AAATAT <u>GCGGCC</u> GCTCAGTTCAGCCTTGCTTTT	NotI
gtr6-UP-F	ACGCGT <u>CGAC</u> GGCATATGCAATCTCAGG	Sall
gtr6-UP-R	GGGGT <u>ACTGT</u> CAATCCAATTTTCATATAGTA	KpnI
gtr6-DOWN-F	GGGGT <u>ACC</u> ACTATTGGTATTTAATATGTTATCTTGT	KpnI
gtr6-DOWN-R	AAATAT <u>GCGGCC</u> GCATGATGCTAGCCCAATCC	NotI
Dlon-up-F	<u>GGATCCT</u> TAGCGCTTCCTTCACG	BamHI
Dlon-up-R	<u>GGTACC</u> CATAATAAGTTCAGACATGGGC	KpnI
Dlon-dwn-F	<u>GGTACC</u> GCAGCGCGTCACTAATTC	KpnI
Dlon-dwn-R	<u>GTCGACC</u> GATGTAAGGCAGGACCC	Sall
rnaA-UP-F	ACGCGT <u>CGAC</u> GCGATAGTAATTCTAAAAACACG	Sall
DrnaA-UP-F1790	ACGCGT <u>CGAC</u> GCGATAGTAATTCTAAGAATACGG	Sall
rnaA-UP-R	GGGGT <u>ACC</u> CATATTTCAATTAATAAACTTGGTTATG	KpnI
rnaA-DOWN-F	GGGGT <u>ACC</u> GGCAGTTATTAAGAGCAATAACCA	KpnI
rnaA-DOWN-R	AAATAT <u>GCGGCC</u> GCAGAAGCAGCAGAAGACAAAC	NotI
Dslt-upF	CACCT <u>GGATCC</u> GTCTCACCACGATATCCATTAC	BamHI
Dslt-upR	CATAGGT <u>ACTTT</u> CATCACACGACTCTTGTTTG	KpnI
Dslt-dwnF	AGT <u>CGGTACC</u> ACGCGATCATCACCTTAGTTTTAG	KpnI
Dslt-dwnR	ATCTT <u>GCGGCC</u> GCATTTACCGCTTGCGATAC	NotI

S1 Table (continued)

qRT-PCR	
wza-F	CTGGCTATTCACCTGCACAAAC
wza-R	CCTGACTCACCCATCACATAAA
gna-F	GCGGGTAGTAAGTGGAAC TTT
gna-R	AACCTACCTCTTCTGCTTTATGG
rnaA-qRT-F	GTGCGCTAGACCCTTCTAAAC
rnaA-qRT-R	ACAGTCAGTTCTGGTGGTTTC

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