

Supplementary Legends

Supplementary Table 1. Primers used in this study.

Supplementary Figure Legends

Supplementary Figure 1. NaxD is conserved in numerous Gram-negative bacterial pathogens. (A) Protein BLAST analysis was used to determine the % identity and % similarity of NaxD homologs in the indicated species. (B) Amino acids surrounding YdjC superfamily putative active site residues are shown and numbers indicate their position in the sequence.

Conserved residues (*)

Supplementary Figure 2. Alignment of the 17 bp putative PmrA binding site in the promoter of *A. baumannii naxD*, with promoter regions of *A. baumannii pmrCAB*, *S. typhimurium pmrF* and *pmrCAB*. Consensus sequence of PmrA binding site are marked in bold and underlined. Y=C/T; K=G/T

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Primer Name	Sequence
qRT-PCR	
qRT 2623 F2	accgatcaatacccctcatt
qRT 2623 R2	gttcgccataattggcagt
16S rRNA 1	cagctcgtgtcgtgagatgt
16S rRNA 2	cgtaagggccatgatgactt
<i>naxD</i> deletion	
A1S2623 f1	aatacttattggctactgcc
A1S2623 a1K R	ccgcatctccagcagccgatctaaattccacataggg
A1S2623 a1K F	ccctatgggtggaatttagatcggctgctggagatggcgg
A1S2623 Ka2 R	tggaacaacgcaggataaaattagaaaaactcatcgagca
A1S2623 Ka2 F	tgctcgatgagtttttctaattttatcctgcggtgttcca
A1S2623 r1	atagatgtcagaacaattgc
<i>naxD</i> complement	
pWH1266 2623comp F2	cgaccacaccgctcctgtggatccactatttataggctaatacaagtg
pWH1266 2623comp R2	gaaggctctcaagggcatcggtcgactcattgcattgccctagtctgg

A

Organism	% Identity	% Similarity
<i>Acinetobacter baumannii</i>	100	100
<i>Francisella tularensis</i>	50	32
<i>Legionella pneumophila</i>	37	53
<i>Brucella abortus</i>	36	48
<i>Coxiella burnetii</i>	34	52

B

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<i>A. baumannii</i>	4	VCYCADDFA	12	58	IGLHLNLTHA	67	115	QPDFIDGHQHIHQFP	129
<i>F. tularensis</i>	5	IIICADDFG	13	60	VGIHLNLTEG	69	120	LPDFIDGHQHVHHFP	134
<i>L. pneumophila</i>	7	IFLCADDFG	15	61	TGLHFNLTEG	70	119	LPDFIDGHQHIHQFP	133
<i>B. abortus</i>	1	MMRIADDFG	9	56	VGLHLNLTQA	65	114	LPDYDGHQHCFCFP	128
<i>C. burnetii</i>	4	ITLCADDYG	12	58	IGLHFNLTEG	67	115	LPDFIDGHQHVHHL P	129

PmrA consensus binding site

naxDA. baumannii

pmrCAB A. baumannii

pmrFS. typhimurium

pmrCAB S. typhimurium

Y T T A A K	N N N N N	Y T T A A K
<u>C T T A A G</u>	A A A A C	<u>T T T A A G</u>
<u>T T T A A G</u>	T C A T T	<u>T T T A A G</u>
<u>C T T A A T</u>	G T T A A	<u>T T T A A T</u>
<u>C T T A A G</u>	G T T C A	<u>C T T A A T</u>