microorganisms

Heat Shock Protein DnaJ in *Pseudomonas aeruginosa* Affects Biofilm Formation via Pyocyanin Production

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Table S1. Bacterial strains and plasmids used in this study.

Stains	Relevant characteristic [1]	Source
Pseudomonas aeruginosa PAO1		[1]
DH10B	F⁻ *mcrA* Δ(*mrr-hsdRMS-mcrBC*) φ80*lacZ*ΔM15 Δ*lacX74 recA1 endA1 araD139* Δ(*ara-leu*)*7697 galU galK* λ– *rpsL*(Str^R) *nupG*	Invitrogen
danJ-M	PA4760 transposon mutant of PAO1; Gm^R	This study
Plasmids		
pMS402	Expression reporter plasmid carrying the promoterless *luxCDABE* gene; Kn^R ,Tmp^R	[2]
pAK1900	*E. coli-P. aeruginosa* shuttle cloning vector carrying plac upstream of MCS; Amp^R ,Cb^R	[3]
pKD-*phzM*	pMS402 containing *phzM* promoter region; Kn^R , Tmp^R	[4]
pKD-*phzS*	pMS402 containing *phzS* promoter region; Kn^R , Tmp^R	[4]
pKD-*phzA1*	pMS402 containing *phzA1* promoter region; Kn^R , Tmp^R	[4]
pKD-*phzA2*	pMS402 containing *phzA2* promoter region; Kn^R , Tmp^R	[4]
pKD-*pqsA*	pMS402 containing *pqsA* promoter region; Kn^R , Tmp^R	[5]
pKD-*lasI*	pMS402 containing *lasI* promoter region; Kn^R , Tmp^R	[6]
pKD-*lasR*	pMS402 containing *lasR* promoter region; Kn^R , Tmp^R	[6]
pKD-*rhlI*	pMS402 containing *rhlI* promoter region; Kn^R , Tmp^R	[6]
pKD-*rhlR*	pMS402 containing *rhlR* promoter region; Kn^R , Tmp^R	[6]
pKD-*flhF*	pMS402 containing *flhF* promoter region; Kn^R , Tmp^R	This study
pKD-*flhA*	pMS402 containing *flhA* promoter region; Kn^R , Tmp^R	This study
pAK-*dnaJ*	pAK1900 with a 1.1 kb fragment of *dnaJ* between XbaI and HindIII; Amp^R	This study

[1] Tmp^R, trimethoprim resistance; Gm^R, gentamicin resistance; Kn^R, kanamycin resistance; Amp^R, ampicillin resistance; Cb^R, carbencillin resistance.

Table S2. Primers used in this study.

Primer	**Sequence (5′-3′)** [1]	**Restriction site**
PA4760 up	AATAAGCTTGCATGATCCGCCACGC	HindIII
PA4760 down	GGCTCTAGACGGTCTGCTGAACGGC	XbaI
ARB1	GGCCACGCGTCGACTACTACNNNNNNNNNNGATAT	
P7-1	CTAACAATTCGTTCAAGCCG	
ARB2	GGCCACGCGTCGACTAGTAC	
P7-2	GGATGCGTCTAAAAGCCTGC	
flhF up	GCACTCGAGGACAAGGCTCCGAGG	XhoI
flhF down	ACAGGATCCGCAGCTCCACTTCCAG	BamHI
flhA up	CGGTCTCGAGTAGTTGGTGATTGGCG	XhoI
flhA down	AATGGATCCGACCACGTAGTTGCCG	BamHI

[1] Restriction sites are underlined.

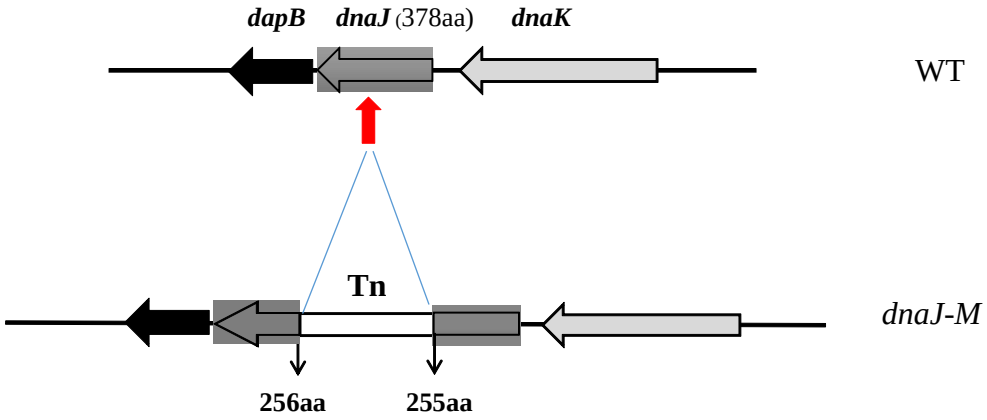

Figure S1. Schematic depiction of the genomic organization of *dnaJ-M*. Top: intact *danJ* gene on the chromosome in the wild type (WT). Bottom: *danJ* was disrupted by the transposon element (Tn). The insertion site is indicated with the DnaJ amino acid residues.

References

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