Supplemental data

Table I. Relative gene expression in WT *A. hydrophila* SSU and its mutants

Strain	Gene	Optical intensity of the bands* ($x10^3$)	Fold Change Mutant / WT	*P*
SSU	*qseB*	28.52±0.63		
Δ*luxS* mutant	*qseB*	29.01±0.67	1.0±0.001	0.14
Δ*ahyRI* mutant	*qseB*	74.11±0.71	2.61±0.02	< 0.001
SSU::*aha0701*h	*qseB*	79.84±0.41	2.80± 0.01	< 0.001
Δ*ahyRI*::*aha0701*h	*qseB*	27.94±0.81	1.0±0.02	0.12
SSU	*qseC*	11.76±0.22		
Δ*luxS* mutant	*qseC*	12.03±0.67	1.0±0.05	0.4
Δ*ahyRI* mutant	*qseC*	25.11±0.71	2.21±0.02	< 0.001
SSU::*aha0701*h	*qseC*	27.49±0.41	2.30± 0.01	< 0.001
Δ*ahyRI*::*aha0701*h	*qseC*	13.17±0.81	1.0±0.02	0.38
SSU	*ahyR*	22.34±0.34		
Δ*qseB m*utant	*ahyR*	11.51±0.44	0.51±0.02	< 0.001
Δ*qseB*::*aha0701*h	*ahyR*	7.48± 0.23	0.33±0.009	< 0.001
Δ*luxS* mutant	*ahyR*	18.12±0.10	0.72±0.03	< 0.001
SSU::*aha0701*h	*ahyR*	38.38±0.29	1.78±0.03	< 0.001
SSU	*ahyI*	13.96±0.20		
Δ*qseB m*utant	*ahyI*	6.66±0.45	0.47 ±0.05	< 0.001
Δ*qseB*::*aha0701*h	*ahyI*	5.16±062	0.63± 0.02	< 0.001
Δ*luxS* mutant	*ahyI*	9.44±0.22	0.67±0.02	< 0.001
SSU::*aha0701*h	*ahyI*	32.16±0.38	2.38±0.01	< 0.001
SSU	*luxS*	20.63±0.27		
Δ*qseB* mutant	*luxS*	21.22±0.12	1.02± 0.04	0.2
Δ*qseB*::*aha0701*h	*luxS*	20.18±0.48	1.00±0.01	0.15
SSU	*vpsT*	17.11±0.94		
Δ*qseB m*utant	*vpsT*	10.69±0.27	0.62±0.05	< 0.001
Δ*qseB*::*aha0701*h	*vpsT*	16.92±0.49	1.0±0.08	0.35
SSU	*fleN*	34.23±0.24		
Δ*qseB m*utant	*fleN*	58.18±0.33	1.74± 0.02	< 0.001
Δ*qseB*::*aha0701*h	*fleN*	22.66±0.29	0.66± 0.07	< 0.001

Values are means ± standard deviations (SD) from triplicate experiments. The ratio of Mutant/WT was calculated for each 31 pairs, and ANOVA was used to calculate the mean ± SD and the significance of the differences.

* The RT-PCR products contained in the gels were scanned in an image acquisition and analysis system (GEL-DOC 2000, Bio-Rad, Hercules, CA), and optical intensity was quantified with the AlphaEasyFC software (AlphaInnotech, San Leandro, CA).