

TABLE S3. Primer used for cloning and mutant construction

Name	Sequence		Annealing temperature	Product size
Δ jqsA ₁₀₂ -UP-FP-BamHI (oFH120)	GCGGATCCTGTTGGACGCGGTAG TTCCCAC		59 °C	266 bp
Δ jqsA ₁₀₂ -UP-RP-XbaI (oFH115)	GTTCTAGACGCCTCGCCGGCGAT GTTTCAGGTAA			
Δ jqsA ₁₀₂ -DS-FP-XbaI	GCTCTAGATGACGGATCTCGGCT ACAAC		59 °C	317 bp
Δ jqsA ₁₀₂ -DS-RP-EcoRI	GCGAATTCCGCTACACCAGCGCC AGCTT			
Pvio ₁₀₇ +JAI-FP-BamHI	GTGGATCCGCGCCTTGCAGACGA CAACTA		55 °C	300 bp
Pvio ₁₀₇ +JAI-RP-EcoRI	GGCGAATTCCGTGCTCATACGAA ATTCTT			
Pvio ₁₀₇ -JAI-FP-XhoI	GACTCGAGATACCCGGGCTATTG TCGGTG		55 °C	1010 bp
mCherry-FP-EcoRI	GCGAATTCATGGTGAGCAAGGGC GAGGA		56 °C	737 bp
mCherry-RP-HindIII	GGCAAGCTTTTACTTGTACAGCTC GTCCAT			
oFH106 (Δ jqsA ₁₀₂ -UP-FP-proof)	AACGGCAGTTCGAAGGTCAG		59 °C	HH102: 2083 bp
oFH107 (Δ jqsA ₁₀₂ -DS-RP-Proof)	AATCTGCACGGCCTGAGCTT			HH102 Δ jq sA: 1344 bp
oFH108 (Δ jqsA ₁₀₂ -deleted region-FP)	AATCGGCGCAAGCCGTG		60 °C	HH102: 280 bp
oFH109 (Δ jqsA ₁₀₂ -deleted region-RP)	AGCGACGCCGTGCGGAA			HH102 Δ jq sA: 0 bp
Δ jqsA ₁₀₂ -comp-FP-XhoI	AGTCTCGAGGCACAATATCGGCA CAACTG		59 °C	1363 bp
Δ jqsA ₁₀₂ -comp-RP-XbaI	GATCTAGAGCTACACCAGCGCCA GCTTGC			
Gene	Forward Primer (5'-3' direction)	Reverse Primer (5'-3' direction)	Efficiency	
<i>rpoD</i> (Jab_2c27560)	GAACAGCTGGAAGCG TTGAA	CTTGACGTAGGCCTTG GAGTTGTAG	98.4 %	
<i>dnaG</i> (Jab_2c27570)	AACCGAAGTACTTGA ATTCTCCCGAAAC	TATAGCCTTCCGTCAC CAGCACATAC	93.4 %	

Jab_2c07990	GTCGTCCGACGCGCTC AATA	GATGCTGGCCGGATTC AGGT	94.2 %
Jab_2c08810	ACAATCCTCTGCGCAA GGTCTACTT	CAGGTAGACATCCTC GCCTTGTTT	95.4 %
Jab_2c10590	TCGACCTGGCCGATGT CTAC	TGGCGACGAAGGACA CCTTG	90.5 %
Jab_2c16610	ACCTGATCCGCAGCTG GAAC	GGTGTCGGTGACGAC CACTT	97.8 %
Jab_2c26580	TGACGTCGAGCGTGA CCTTG	CCAGGTTACGCGCA CATTG	86.9 %
Jab_2c35400	TCGGCGATCCGATCG AGTTC	AGTCGAGGTGGCCGA GATTC	97.2 %
<i>rpoD</i> (JAB4_42690)	CCAACTTGCGCCTGGT CATT	GCGGTTACTCGAACTT GTCA	95.1 %
<i>dnaB</i> (JAB4_01060)	TTGACGAGGCCGAGT CGAAG	CTCTGGTTGTCGCGGC TGTA	96.4 %
JAB4_02850	ATCCGCAGCCGCCATC TGTT	AACCTGCCGTCAGCTT GTCC	89.0 %
JAB4_16300	AGATCGCCTATGCCGT GCTG	GCGCTTGTTGACGGTG TCCA	93.8 %
JAB4_20530	TTGCTGCTGCCGATGG TGTC	TGGTAGCCGCGGTTCG CATA	89.3 %
JAB4_35690	TTCCTGTGCGGCAGTAC AGCA	GGCCAGCAAGTTGGT CTTGA	84.3 %
JAB4_35800	TCAAGACGGCGCACG AAGAG	AGCACGGCGATGACG AGGTA	95.7 %
JAB4_42080	CGATCTTCGGCGTGGA TTCG	GCGTCTTCCAGCGCGT GATA	88.5 %

Restriction sites are underlined, forward primer are abbreviated FP and reverse primer RP. DS refers to downstream and UP to upstream.