

Table S1. qPCR primers

Name	NCBI locus tag	Product size	Forward primer sequence 5'→3'	Reverse primer sequence 5'→3'	Reference
<i>cyoA</i>	W5S_3266	175	GGACCTTGGTATCGCTACGGTTA	GCCCGGTTTCATTAGCGATTAA	This study
<i>cyoC</i>	W5S_3268	176	CTGGTGTTTATCGGGATGGAAA	CCACGTTTGGACACCTGAATC	This study
<i>togM</i>	W5S_2142	133	GCTGGCACTGATGTCGGTAA	CATTTGGATGCACCGTCG	This study
<i>pgaA</i>	W5S_4792	185	GAACGCATTGAAGGACAGCA	TTCGCCATTGATTCATCAAGC	This study
<i>togB</i>	W5S_2139	79	GCAAAACTGGCGTTGGGTAA	GCATCTGTGCAGGTTTGAAGAA	This study
<i>phnG</i>	W5S_0593	103	CTCCTGCAAACCCGATCCTA	CCACTTCCTGCTGTTGCTGTT	This study
<i>phnM</i>	W5S_0599	163	CATCACGCTAGCCAGTCATGA	GCCGCAGATGACATTTGGT	This study
<i>moaE</i>	W5S_2933	147	GGTTCGTAATCACAATCTGGCAA	CCTACCCGATGAATCACACTCAC	This study
<i>rsmB</i>	N/A	92	GCCCCACCGACATTCCTAA	GCGCAGCTTTCAGGAAGAAA	This study
<i>kdgR</i>	W5S_2118	125	GTCTGCGCTAACGAGGGAAA	GCGGGTTACGACGACCAATA	This study
<i>A0110</i>	W5S_0965	133	GATAGCGAGCCGATCAACCTTA	CACGACCTGAATTGCCTTCA	This study
<i>Pel 3</i>	W5S_4193	114	ATCTGCGGCCAGTGGAGTAA	CACGATCCAGACGCCAAA	This study
<i>rsmA</i>	W5S_1009	96	CGGCGATGAGGTAACGGTTA	TCTTACGGTGGACAGAAACC	This study
<i>pelX</i>	W5S_4748	149	GCCATCATGACGCAGGATAAA	GTCCGGGTTTGCTCCAGAT	This study
<i>narG</i>	W5S_2539	155	ACAACAATCCGCAGTGGAAAA	CAAGCGCAGTTTAACGTCTTCA	This study
<i>nirD</i>	W5S_4205	173	GCAGATTTACGCCATCAGCA	AAGCTGCAACAGAATAGGCATCA	This study
<i>hep</i>	W5S_0060	118	GACGAGATGCTGGTTCAGGAA	TGTTCACTGCGACGGTGAA	This study
<i>ffh</i>	W5S_1021	100	AAGGTTGACCGTACACAGGCA	TGCGCATCTGCTTAAGCTGA	This study
<i>recA</i>	W5S_1006	94	CGTCGTA CTGGCGCTATCAA	GTTTGAACGGTGCTGCCA	This study

Table S2. Mutagenization primers, mutagenization confirmation primers, and pBluescript SK– insert primers

Primer	Sequence 5'→3'	Reference
Mutagenization primers		
RsmA-F	GCGGGGAGACAGAGAGACCCGACTCTTTATAATCTTTCAAGGAGCAAAGAGTGTAGGCTGGAGCTGCTTC	This study
RsmA-R	AGCGGGAAGTGGCAATTGCGTCCC CGAACACGAGACGCATTGTCAATCACATATGAATATCCTCCTTAG	This study
REDphnF	TGGCCCGTCCCTTAGCGACAAGGATTGCCGATATGACTCATTCTGTTTCTGTGTAGGCTGGAGCTGCTTC	This study
REDphnR	TTTTAGCTCCGCGATATGTGGAGCGATGAACGTTATATGTGACCCCATCCCATATGAATATCCTCCTTAG	This study
Mutagenization confirmation primers		
C1	GATCTTCCGTCACAGGTAGG	1
C2	TTATACGCAAGGCGACAAGG	1
RsmACF	GAGTCCTGGGTTGTTGCTAAGC	This study
RsmACR	GCTTTTGACCGCATACTCCCT	This study
PhnFlankingF	ATGACTCTGTGGGAGGACAG	This study
PhnTsekkiR	CAGATAGCCACAACGGGATG	This study
pBluescript SK– insert primers		
BSexpAF	AATCTAGATGAATAAATGAAGGAGGAAGATTTATTGATTAGCGTTTTTCTTGTTGATGA	This study
BSexpAR	AAGGATCCTCACTCACTACTTAACAATGTCTCCGC	This study

Reference

1. **Datsenko KA, Wanner BL.** 2000. One-step inactivation of chromosomal genes in *Escherichia coli* K-12 using PCR products. Proc. Natl. Acad. Sci. U. S. A. **97**:6640–6645.

Table S3. *Pectobacterium wasabiae* strains used in this study

Strain	Genotype	Reference
SCC3193	Wild type	1
SCC3060	<i>expA::Tn10</i> , Km ^R	2
RA2	<i>rsmA::Cm^R</i>	This study
DM	SCC3060, <i>rsmA::Cm^R</i>	This study
EAC	SCC3060 pBluescript <i>expA</i> + Amp ^R	This study
EAVC	SCC3060 pBluescript Amp ^R	This study
PHN	<i>phnGHIJKLMNP::Cm^R</i>	This study

References

- 1. Pirhonen M, Heino P, Helander I, Harju P, Palva ET.** 1988. Bacteriophage T4 resistant mutants of the plant pathogen *Erwinia carotovora*. Microb. Pathog. **4**:359–367.
- 2. Pirhonen M, Saari lahti H, Karlsson M-B, Palva ET.** 1991. Identification of pathogenicity determinants of *Erwinia carotovora* subsp. *carotovora* by transposon mutagenesis. Mol. Plant Microbe Interact. **4**:276–283.