

TABLE S1 Bacterial strains, plasmids and primers

Strains	Description	Source or reference
HKN06P1 (6P1)	Wild type <i>Erwinia amylovora</i> isolate from apple tree in Adams County, Pennsylvania, isolated in 2006	Lee et al., 2010
6P1 nal <sup>R</sup>	Spontaneous nalidixic acid resistant derivative of 6P1	Klee et al., 2019
<i>lysA</i> -Tn5	6P1 with Tn5 insertion at nt 930/1254 of <i>lysA</i> (EAMY_0664)	This work
<i>lysRI</i> -Tn5	6P1 with Tn5 insertion at nt 485/921 of <i>lysRI</i> (EAMY_0663)	This work
$\Delta$ <i>lysRI</i>	6P1 nal <sup>R</sup> with deletion of 921 nt open reading frame of <i>lysRI</i>	This work
<i>lysA</i> -Tn5 ( <i>plysA</i> )	<i>lysA</i> ::Tn5 with wild-type <i>lysA</i> gene in pCE vector	This work
<i>lysRI</i> -Tn5 ( <i>plysRI</i> )	<i>lysRI</i> ::Tn5 with wild-type <i>lysRI</i> gene in pCE vector	This work
$\Delta$ <i>lysRI</i> ( <i>plysRI</i> )	$\Delta$ <i>lysRI</i> with wild-type <i>lysRI</i> gene in pCE vector	This work
<i>flgB</i> -Tn5	Non-motile 6P1 Tn5 mutant with an insertion in <i>flgB1</i> (EAMY_1453)	Klee et al., 2022; this work
<i>ams</i> <sup>-</sup>	6P1 with Tn5 insertion 417 bp upstream of the <i>ams</i> operon; non-pathogenic and produces no detectable amylovoran	Klee et al., 2019
<i>hrcC</i> -Tn5	6P1 with Tn5 insertion in <i>hrcC</i> ; does not induce HR in tobacco (EAMY_0549)	Klee et al., 2019
$\Delta$ <i>lsc</i>	6P1 nal <sup>R</sup> with deletion of <i>lsc</i> open reading frame	Klee et al., 2022
<i>rfaA1</i> -Tn5	6P1 with Tn5 insertion in <i>rfaA1</i> encoding O-antigen permease (EAMY_2236); does not produce LPS in culture	Klee et al., 2020
<i>E. coli</i> Top10	Cloning strain	Invitrogen
<i>E. coli</i> EC100D <i>pir-116</i>	Tn5 plasmid rescue	Epicentre
<i>E. coli</i> DH5 $\alpha$	Cloning and propagation strain	New England Biolabs
<b>Plasmids</b>		
pEV	Low copy empty vector pCE, a derivative a pCPP9; streptomycin/spectinomycin resistance	Klee et al., 2022
<i>plysA</i>	<i>lysA</i> complementation vector; pCE with <i>lysA</i> coding and promoter regions	This work
<i>plysR</i>	<i>lysRI</i> complementation vector; pCE with <i>lysRI</i> coding and promoter regions	This work
pKD3	Template for Cam insertion cassette for Lambda Red recombination; ampicillin resistance	Datsenko and Wanner, 2000
pKD46	Lambda Red recombinase-expressing plasmid (arabinose inducible); ampicillin resistant	Datsenko and Wanner, 2000
<b>lysR Deletion primers</b>	<b>5' to 3' sequence</b>	
$\Delta$ <i>lysR</i> -F	CTATTCATCCATGATATGGCATAACCCCTTTGTTG AGCGAGAGTCAGTGGTGTAGGCTGGAGCTGCTTC	

$\Delta$ lysR-R	TGTATACCTTCCATGGCATACGCACGCGGCCGCTGG CCATAAAGGTTTAACATATGAATATCCTCCTTA	
<b>Diagnostic primers for lysR deletion / Cam insertion</b>	<b>5' to 3' sequence</b>	
Cam resistance gene Forward primer CamR	TCCGGCCTTTATTACATTC	
Cam resistance gene Reverse primer CamR RC	GAATGTGAATAAAGGCCGG	
lysRflank_F	CAACCCTTGCCAGCGTAG	
lysRflank_R	CAAGCTGGCAGACTGGAAG	
<b>Complementation primers</b>	<b>5' to 3' sequence</b>	
lysAcompF	CTCGAGCACTGACTCTCGCTCAAC	
lysAcompR	TCTAGATTA AAACTCCAGCGCCAGC	
lysRcompF	GAATTCACGGTCTCCGTTAGTTGATGG	
lysRcompR	GGATCCTTAATTGAGATGCTGCTGCAGG	

## Literature Cited

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