

Table S3. Description of genes with transcription rate quantified by qPCR in this study and biological information of their respective mutants

Gene	Description	Pathogenicity	Transmission	References
<i>pglA</i> * (PD1485)	Required for pectin degradation	Non-virulent	ND	(1)
<i>rpfF</i> (PD0407)	Required for synthesis of DSF “cell-cell signaling factor”	Hyper-virulent	Non-transmissible	(2)
<i>hxfA</i> (PD2118)	Hemagglutinin-like secreted protein (afimbrial adhesin)	Hyper-virulent	Affected	(3); (4)
<i>hxfB</i> (PD1792)	Hemagglutinin-like secreted protein (afimbrial adhesin)	Hyper-virulent	Affected	(3); (4)
<i>gumJ</i> (1389)	Required for EPS synthesis (biological data are for mutants of <i>gumD</i> (PD1894) and <i>gumH</i> (1319), both are required for EPS synthesis)	Non-virulent †	Affected†	D. Cooksey
<i>fimA</i> (PD0062)	Required for type I pilus (short pilus) synthesis	Hyper-virulent	Affected†	(5)
<i>pilY1</i> (PD0023)	Component of type IV pilus (long pilus)	Non-virulent⊥	Affected⊥†	(5)
<i>engxA</i> (PD1851)	Required for glucan degradation	ND	ND	

* Mutant produced from Fetzter strain, all other mutants produced from Temecula1.

† Unpublished data based on plant-to-plant transmission tests using *Graphocephala atropunctata* as a vector (Killiny and Almeida). ND, not determined.

⊥ Biological data is based on a *pilB* (PD1027) mutant, not *pilY1*; phenotype and gene regulation is expected to be similar for these genes.

References

1. Roper MC, Greve LC, Labavitch JA, Kirkpatrick BC (2007) Detection and visualization of an exopolysaccharide produced by *Xylella fastidiosa* in vitro and in planta. *Appl Environ Microbiol* 73:7252-7258.
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3. Guilhabert MR, Kirkpatrick BC (2005) Identification of *Xylella fastidiosa* antivirulence genes: Hemagglutinin adhesins contribute to *X. fastidiosa* biofilm maturation and colonization and attenuate virulence. *Mol Plant Microbe Interact* 18:856-868.
4. Killiny N, Almeida RPP (2009) *Xylella fastidiosa* afimbrial adhesins mediate cell transmission to plants by leafhopper vectors. *Appl Environ Microbiol.* 75:521-528.
5. Meng Y, et al. (2005) Upstream migration of *Xylella fastidiosa* via pilus-driven twitching motility. *J Bacteriol.* 187:5560-5567.