Supplementary Table 1. Bacterial strains and plasmids used in this study

Bacterial strains and plasmids	Characteristics	Reference
Ralstonia solanacearum		
SL341	Wild-type, isolated from tomato plants, Race 1, Biovar 4	Jeong et al. (2007)
SL341F12	*mur*1 (RSc1956):: Tn5; Kan^r	This study
SL341F12C	Transconjugant of SL341F12 carrying pRKM, complementation of SL341F12; Kan^r, Tc^r	This study
Escherichia coli		
DH5α	F^-ϕ80 *lac*ZDM15 D(*lacZYA-argF*)*U* 169 deoR *recA*1 *endA*1 *hsdR*17 (rk^-, mk^+) *phoA supE44λ- thi*-1 *gyrA*96 *relA*1	Bethesda Research Laboratories (1986)
HB101	F-*thi-1hsdS20* (rB^-, mB^-) *supE44 recA13 ara-14 leuB6 proA2 lacY1 galK2 rpsL20* (str^r) *xyl-5 mtl-1*	Boyer and Roulland-Dussoix (1969)
Plasmid		
pUC119	Ap^r; cloning vector	Yanisch-Perron et al. (1985)
pGEM-T Easy	Ap^r; T/A cloning vector	Promega
pGEMM	Ap^r; pGEM-T Easy carrying 956 bp fragment of *mur*1gene of *R. solanacearum* SL341	This study
pRK415	Tc^r; PK2-derived broad host range cloning vector	Keen et al. (1988)
pRKM	Tc^r; pRK415 carrying 907 bp *BamH1* fragment of pGEMM containing *mur1* gene of *R. solanacearum* SL341	This study
pRK2013	Km^r; mobilization helper plasmid for triparental mating	Figurski and Helinski (1979)

References

Bethesda Research Laboratories. 1986. BRL pUC host: *E. coli* DH5α competent cells. *Focus* 8:9.

Boyer, H. W. and Roulland-Dussoix, D. 1969. A complementation analysis of the restriction and modification of DNA in *Escherichia coli*. *J. Mol. Biol*. 41:459-472.

Figurski, D. H. and Helinski, D. R. 1979. Replication of an origin-containing derivative of plasmid RK2 dependent on a plasmid function provided in trans. *Proc. Natl. Acad. Sci. U. S. A.* 76:1648-1652.

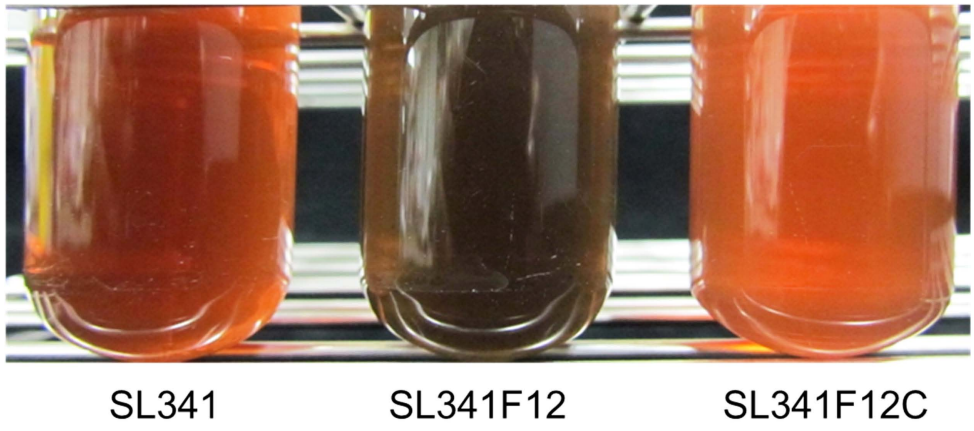
Jeong, Y., Kim, J., Kang, Y., Lee, S. and Hwang, I. 2007. Genetic diversity and distribution of Korean isolates of *Ralstonia solanacearum*. *Plant Dis*. 91:1277-1287.

Keen, N. T., Tamaki, S., Kobayashi, D. and Trollinger, D. 1988. Improved broad-host-range plasmids for DNA cloning in gram-negative bacteria. *Gene* 70:191-197.

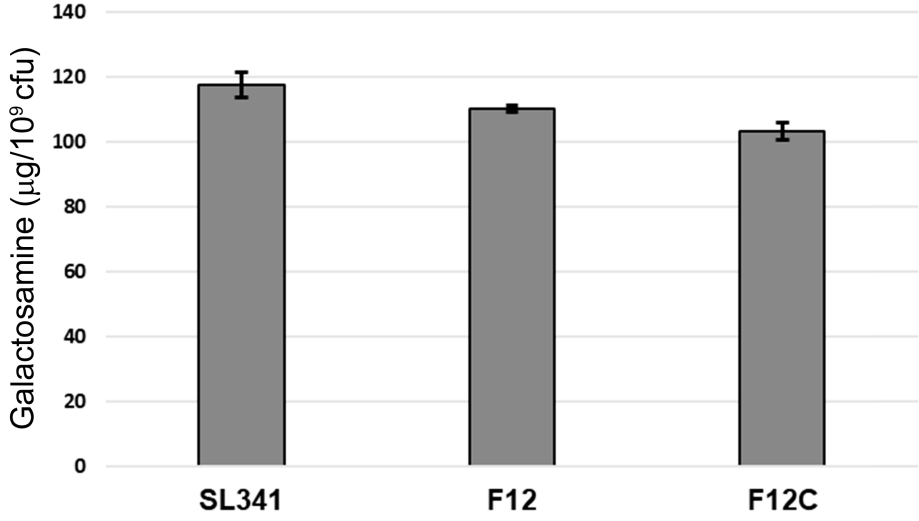
Yanisch-Perron, C., Vieira, J. and Messing, J. 1985. Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors. *Gene* 33:103-119.

Supplementary Table 2. List of primers used in PCR reaction

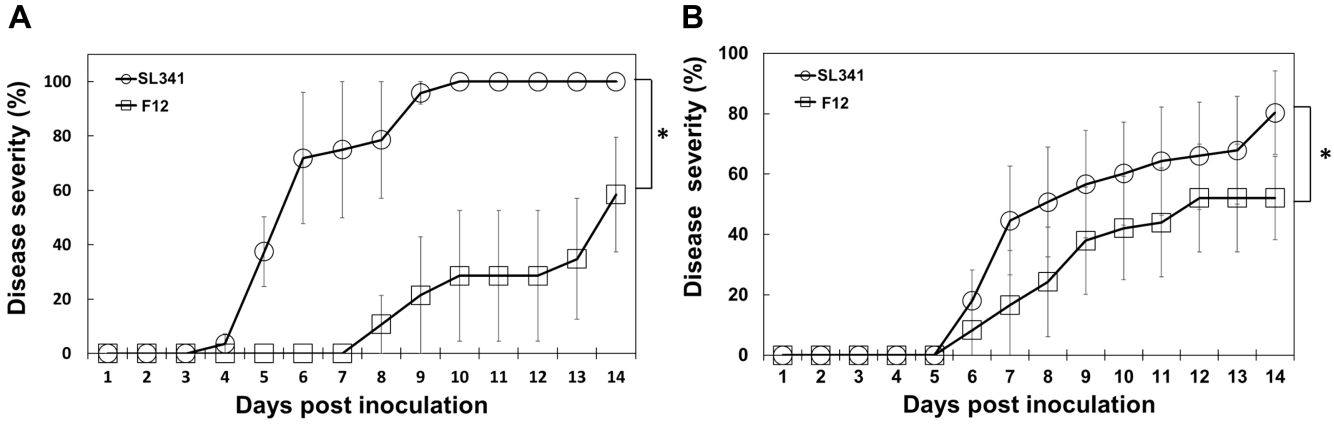
Gene	Primer (5′-3′)	Annealing Temperature (°C)	Product size (bp)
PCR primer for complementation			
murI	**F: ATTATAGGATCCATCGGCAAGATCCCGGTCG** **F:** ATTATAGGATCCATCGGCAAGATCCCGGTCG **R:** ATAACGGGATCCGGCCCGTTTTTATTGCGGAT	60	907
Primer for RT-qPCR			
murI	**F:** CGTGCTGGCGACGGAAA **R:** TGTCGATCAGCGTGAGGC	60	281
flgC	**F:** ATGAAGCGCATGCACCA **R:** GCGGAAATCATGTTGACCATC	6	104
flgE	**F:** ACAAGAACGGCTACATCATCTC **R:** GGATCTGCAGGTTGGTCAG	6	96
fliM	**F:** CCCACGCTGGAAATCATCA **R:** GCTGTACTTCTGGACCTTCAC	6	117
V3 region of 16S rRNA	**F:** ACTCCTACGGRAGGCAGCAG **R:** ATTACCGCGGCTGCTGG	60	190



Supplementary Fig. 1. Cultural phenotype of SL341, SL341F12, and SL341F12C incubated for 48 h at 30ºC in MG broth supplemented with tyrosine (50 μg/ml).



Supplementary Fig. 2. Quantification of EPS in SL341, SL341F12 and SL341F12C incubated for 48 h at 30°C in casamino acid-peptone-glucose broth containing appropriate antibiotics.



Supplementary Fig. 3. Evaluation of bacterial wilt occurrence on a susceptible (A) and a resistant (B) tomato cultivars inoculated by *Ralstonia solanacearum* strain SL341 and SL341F12 using petiole injection. Disease severity was scored through 2 weeks after inoculation of 3-week-old tomato cultivars grown at 28°C, in a day/night regime (14 h light/10 h dark). Control was treated with distilled water. All experiments were performed in triplicate (each replicate include 10 plants). Vertical bars represent standard deviations (n = 30). Significant difference was noticed by repeated measures ANOVA (*$P < 0.05$).