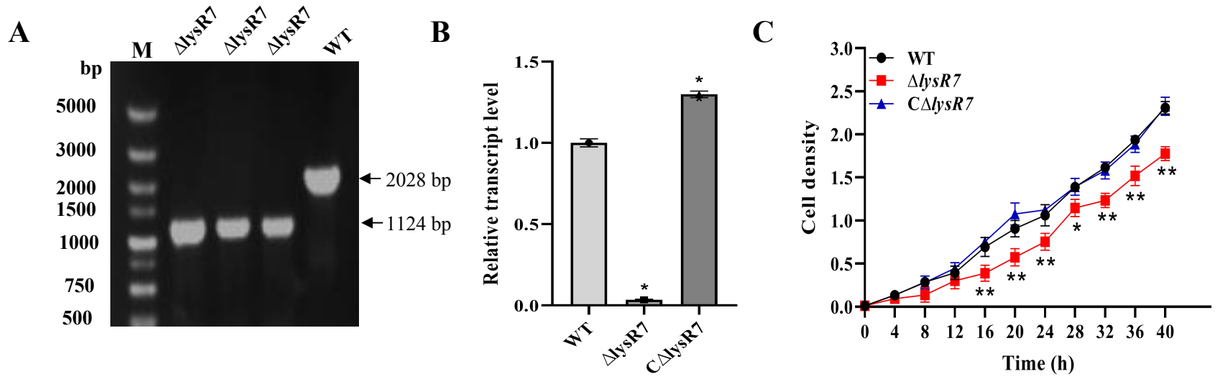

Fig. S1 Construction of *lysR7* mutant of *Ralstonia solanacearum* GMI1000

A Molecular identification of the deletion of *lysR7* coding region. PCR amplification was conducted by using gDNA as template with primer pair lysR7-1F/lysR7-2R. By comparison with 2208-bp product from wild type, a shorten 1124-bp product was obtained from Δ*lysR7*. Lane M shows the DNA maker DL5000 DNA marker. **B** RT-qPCR analysis of the transcript level of *lysR7* in mutant. Total RNA was extracted from the cells cultured in NB medium. Values are means ± SE for three replicates (n = 3 biological replicates, One-way ANOVA, * $p < 0.01$). **C** Growth curve of mutant Δ*lysR7* in NB medium. Each strain was cultured in NB and then inoculated into fresh NB to an $OD_{600} = 0.001$. Bacterial growth was evaluated at every 4 hours interval. Values are means ± SD (n = 3 biological replicates, One-way ANOVA, * $p < 0.05$, ** $p < 0.01$).

Score	Promoter Sequence
0.69	AAGTCGATGGAACTCAAATGGCTGGAAGATTTCATCAGCCTGGCGGAAAC

CCATCCTGGTGTTCGACGAAGCCACCTCGGCGCTCGATTCGCGCACCGA
GCACGCCATCCAGGAAGAGCTGATGCGCCTGGCGCAGAACCACACCAC
GCTGGTGATCGCGCACCGGCTCTCGACCATCGTCGGCGCGCACCAGATC
CTGGTGATGGAGCACGGCCGCATCATCGAGCGCGGCACGCACGCGTCG
CTGTTGCGCGCCGAAGGCCGCTACGCGCAGATGTGGCGCATGCAGGCG
CGCGAGCCCGAGCGCGTGCAGGAAACGGAGGCCTGAGGCTGCCGCCG
GCTGTTGCGCATCGGCGGCGCGTGCGGCGCGCGGCCGCCGGGTCGTTC
CGTTGCGGGGCGCGTGCCGTGCCGGGAGGATGGCCCGCGAGCCCGTCC
AGCGCTTAAAATGCCCTCCCAGCAGGCGCCCGTGTGGGGAGAGCGTCC
GCCAGTCGAGCGGATGGCCACGGGCGCCGTCGGCACTGCGGGGAAGG
GGACACAAGTCGATGGAACTCAAATGGCTGGAAGATTTCATCAGCCTG
GCGGAAAC

Fig. S2 Promoter sequence of *lysR7*
Promoter sequence was predicted in BDGP (https://www.fruitfly.org/seq_tools/promoter.html). The translation start site is indicated by a arrow.

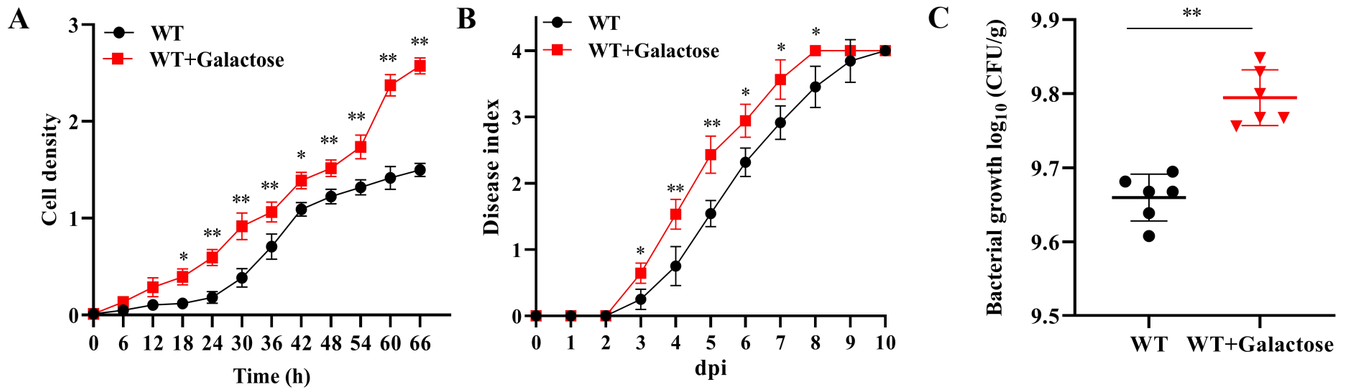

Fig. S3 Exogenous galactose promoted *Ralstonia solanacearum* replication and virulence on hosts

A Growth of *R. solanacearum* GMI1000 in NB medium supplied with 0.5% galactose. The cells were cultivated in NB and NB containing 0.5% galactose to an OD_{600} = 0.001. Growth rate was observed at 6 hours interval. Values are means ± SD (n = 3 biological replicates, One-way ANOVA, * $p < 0.05$, ** $p < 0.01$). **B** Disease index of GMI1000 suspended in 0.5% galactose solution. The cultured cells were prepared to a final concentration of 1×10^6 CFU/mL and inoculated onto *S. lycopersicum* stem tissue of 4 week-old plants. The disease index was recorded till 11 days post inoculation (dpi). Each time point represents the mean disease severity of 24 inoculated plants per treatment. Error bars represent the standard deviation across three independent experiments (One-way ANOVA, * $p < 0.05$, ** $p < 0.01$). **C** GMI1000 growth *in planta* in presence of galactose. *S. lycopersicum* stems were injected with 100 µL of 10^6 CFU/mL cell suspension of 0.5% galactose solution. Plants were subjected to growth curve analysis at 3 dpi. Values are means ± SD (n = 6 biological replicates, Student's *t*-test, ** $p < 0.01$).