

Supporting Information Figures legends

Figure S1 *SIPP2C28* sequence in the pVCT2470-*SIPP2C28* vector.

> *SIPP2C28* in pVCT2470 (1221 bp)

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atgtcttttggcgagactagaactatagctccaaccgaaccgagtagcgaagctgcaagaaggagacgcatggaaattcatcagtttcgattg
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ag//
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The deduced amino acid sequence: (406 aa, 44.68 kDa)

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MSFGETRTIAPTEPSTEAARRRRMEIHQFRFVASDMAVAPPSSMENGRKRKKLEKTVSVKS
YDSKEKKQFKLERIVSLPLSLPCTDVGEKKLAENKETETNALDLTESASVSSNIERQGVSD
CPKFGMTSVCGRRRDMEDTVSIYPSFLQDKHEKSSILHFFGLYDGHGCSHAAMKCKDRM
HEIVKNEVESAGEATWKEMMIQSFSKMDKEVVEYSKGAGGTQTADCRCELQTPQCDV
GSTAVVAVLTPNKIVVSNCGDSRAVLCRNGVPIPLSTDHKPDRPDELNRIEEAGGRVIYWD
GARVLGVLAMSRAIGDSYLKPYVTSEPEVTITERTVEDECLILASDGLWDVVSNETACGVA
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Figure S2 Structural diagram of the tobacco overexpression vector pVCT2470-*SIPP2C28*.

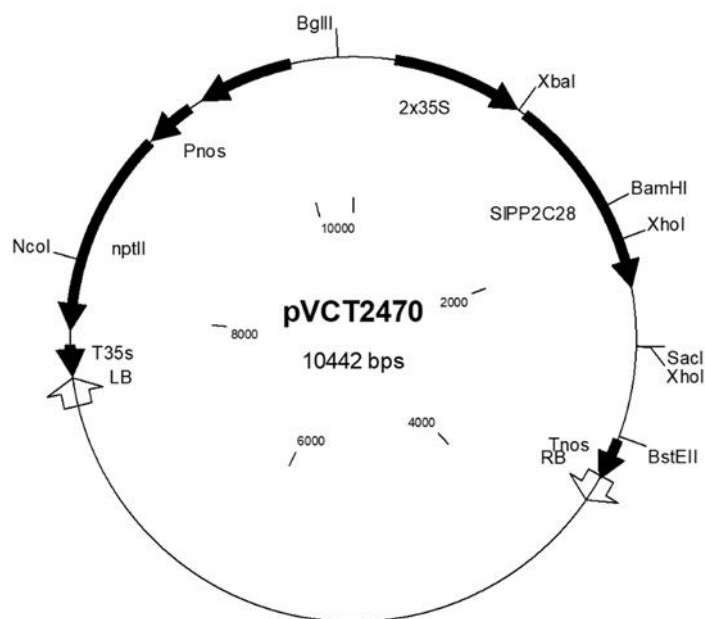
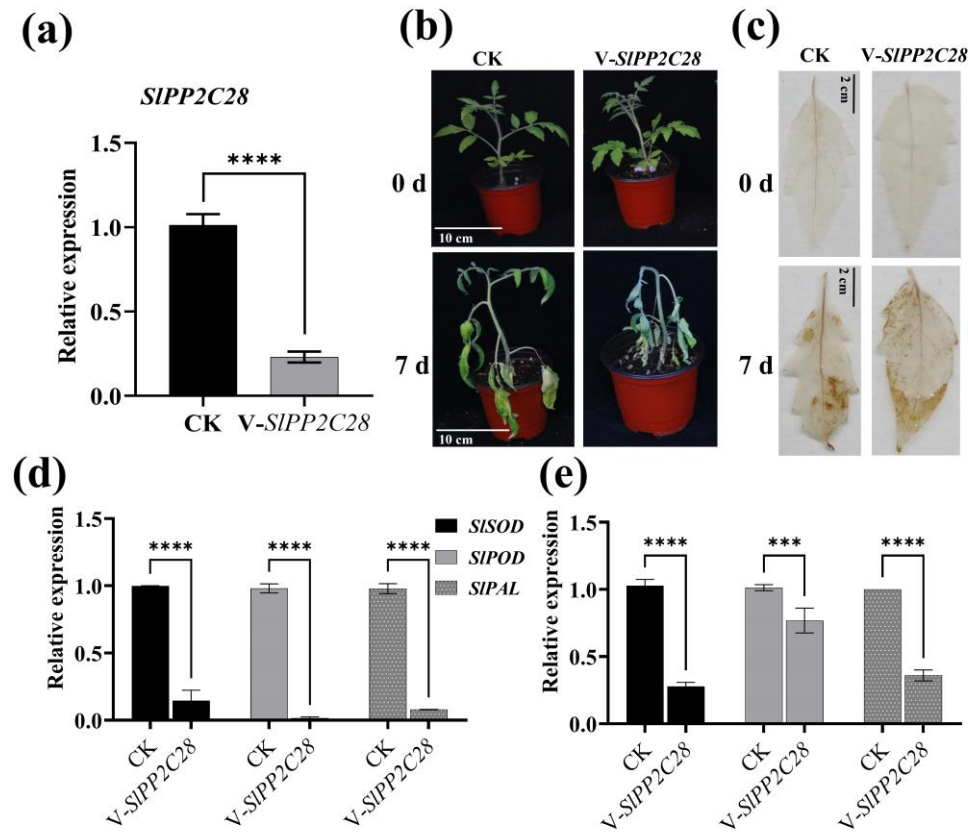


Figure S3 Effect of *SIPP2C28* silencing on the resistance of tomato to bacterial wilt.



(a) Efficiency of *SIPP2C28* gene silencing by virus-induced gene silencing (VIGS). CK represents the Non-silenced tomato plants; V-*SIPP2C28* represents the *SIPP2C28*-silenced tomato plant. The results are expressed as the mean \pm standard deviation, and statistical analysis was performed using t-test; $\alpha = 0.05$, **** $P < 0.0001$. (b) Phenotypes of Non-silenced and *SIPP2C28*-silenced tomato plants seven days after inoculation with *R. solanacearum*. 0 d: before treatment; 7 d: treatment of seven days. Scale bars= 10 cm. (c) DAB staining of tomato leaves. Scale bars= 2 cm. (d) Relative expression levels of defense enzyme-related genes. (e) Relative expression levels of pathogenesis-related genes. The results are expressed as the mean \pm standard deviation, and statistical analysis was performed using two-way ANOVA; $\alpha = 0.05$, *** $P < 0.001$, **** $P < 0.0001$. The experimental parts of a, d–e used 3 biological replicates and repeated three times, the experimental parts of b–c used 3 biological replicates.