

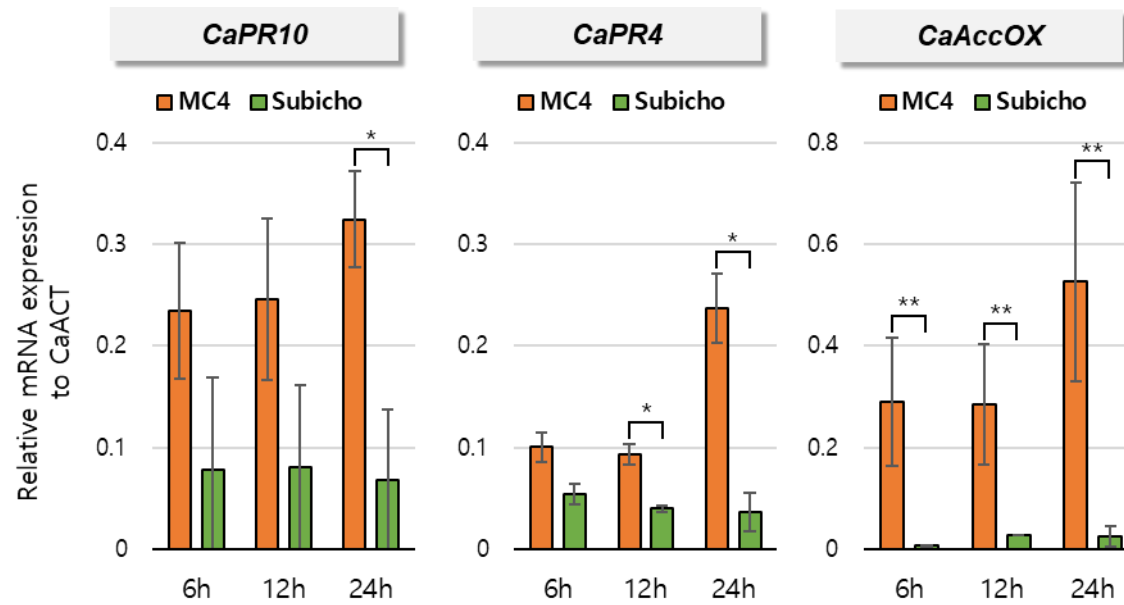
**Supplementary Table S1.** Primer information used for RT-PCR analysis of cell death gene expression in this study.

Clone name	Sequence information (5'->3')		T <sub>m</sub> (°C)	size (bp)	Accession No. (NCBI)	References
	Forward	Reverse				
<i>CaHsr203J</i>	CGCCATCAGCGTCTCCGTCTT C	CGCCCATCGGACATGTGATT G	58	413	AB162220	[34]
<i>CaCDM1</i>	AAAGGCGCAAACGGGAGCT G	TCACAGCCAAACGCTTCGAT CC	60	400	GD056272	[53]
<i>CaHIN1</i>	ATCTTCACTATTCTCATCGTC CTTG	TGCAAACCTGCTAGTATTCTTG TGAC	58	296	AB162221	[34]
<i>CaPR10</i>	ATGGGTGCTTATACCT	TTAAACATAGACAGAAGGAT	54	480	JF345171	[36]
<i>CaPR4</i>	ATCATGGAGAGTGTTACCAA	ATCCCAAGTAGCGCAGTAAG	58	171	AFN21550	[36]
<i>CaAccOX</i>	AGAAAGCTGCAGAGGAAAG CAAAC	TGAGATGCAACCGTTACTCC TATAC	58	343	XM_016698789	[36]
<i>CaActin</i>	CCACCTCTTCACTCTCTGCTC T	ACTAGGAAAAACAGCCCTTG GT	58	165	AY572427	[34]

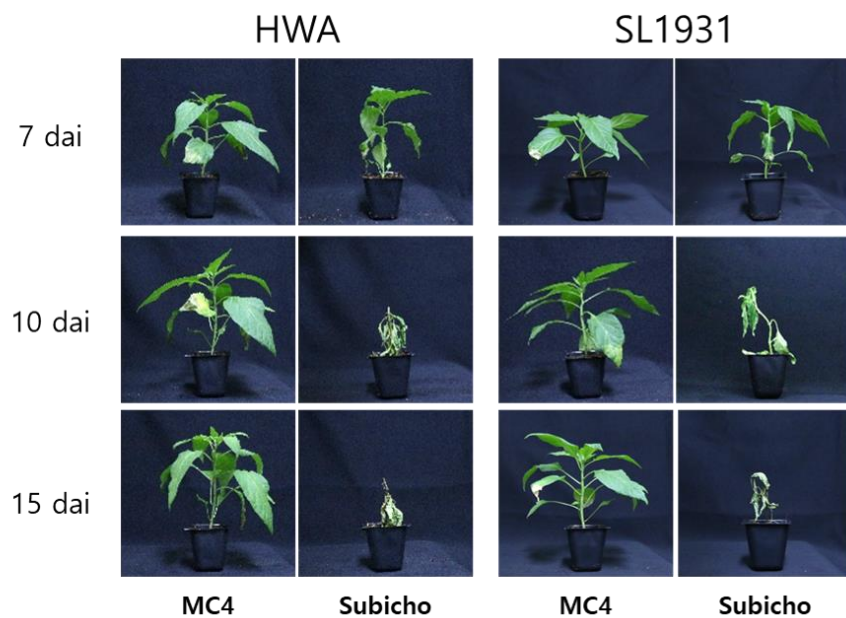
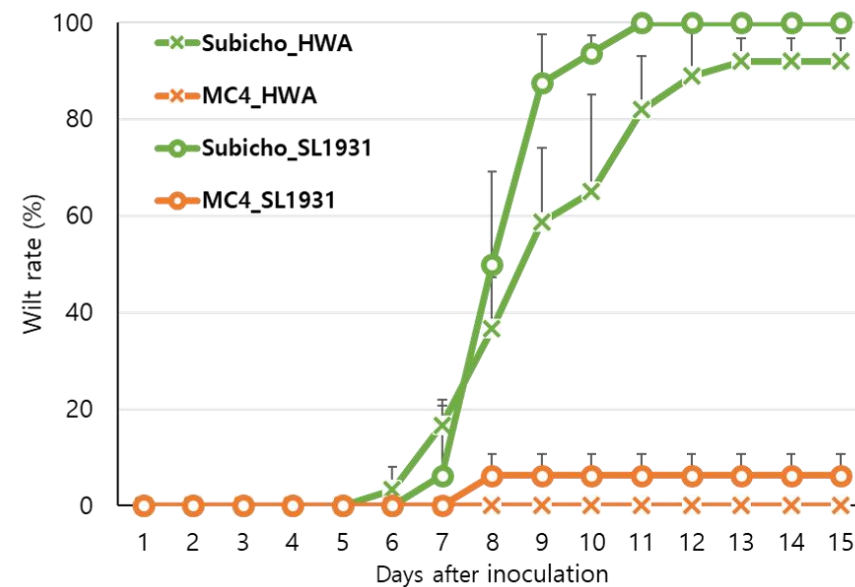
**Supplementary Table S2.** Disease evaluation design and the number of plants to parents and their progenies based on disease severity index in 15, 20, and 30 dai against *R. solanacearum* SL1931 strain.

Days after inoculation	Population <sup>a</sup>	No. of Plants	Disease severity index					Mean of DSI <sup>b</sup>	Wilt rate (%) <sup>c</sup>	AUDPC <sup>d</sup>
			0	1	2	3	4			
15	MC4	30	8	22	0	0	0	0.7	0	7.5
	Subicho	30	0	0	0	0	30	4.0	100	50.3
	F <sub>1</sub>	30	0	17	2	1	10	2.13	36.6	22.7
	F <sub>2</sub>	90	0	60	3	7	20	1.89	32.2	21.9
20	MC4	30	6	24	0	0	0	0.8	0	7.5
	Subicho	30	0	0	0	0	30	4.0	100	50.3
	F <sub>1</sub>	30	0	12	4	0	14	2.5	46.7	22.7
	F <sub>2</sub>	90	0	44	11	1	34	2.3	38.8	21.9
30	MC4	30	0	30	0	0	0	1.0	0	16.5
	Subicho	30	0	0	0	0	30	4.0	100	90.3
	F <sub>1</sub>	30	0	0	7	1	22	3.5	73.3	52.9
	F <sub>2</sub>	90	0	1	41	3	46	3.0	54.4	48.5

<sup>a</sup> 'MC4' and 'Subicho' is resistance (R) and susceptible (S) parent line, respectively. The F<sub>1</sub> population crossed 'Subicho' (S) x 'MC4' (R) and F<sub>2</sub> population derived from self-cross of F<sub>1</sub> plants.



**Supplementary Figure S1.** Relative expression level of defense-related genes according to *CaPR1*, *CaPR4*, and *CaAccOX* was analyzed through *R. solanacearum* infection in 'MC4' and 'Subicho' leaves. Expression value was calculated and then normalized to *CaActin* expression. Asterisks indicate statistically significant differences according to Student's t-test (\* $p < 0.05$ , \*\* $p < 0.01$ ).

**A****B**

**Supplementary Figure S2.** Disease symptoms in 'MC4' and 'Subicho' with two *R. solanacearum* strains, SL1931 and HWA. (A), The phenotype of bacterial wilt (BW) in 'MC4' and 'Subicho' through leaf-inoculation with two *R. solanacearum* strains according at 7, 10 and 15 dai is shown. (B) Disease progression of BW disease on 'MC4' and 'Subicho'. Disease severity of the plants was investigated every day after inoculation. In total, 30 plants were analyzed for each cultivar. Each data point represents the mean disease index for two independent experiment.