

Table S1-1. Comparison of symptom severity in Chinese cabbage plants maintained at different temperatures, according to time after inoculation with TuMV.

Growth stage	DPI	Symptom severity					Statistics		
		13 °C	18 °C	23 °C	28 °C	33 °C	df	<i>F</i>	<i>P</i>
2 true leaf	8	0.0±0.00 a, B *	0.0±0.00 a, B	0.1±0.05 c, B	0.5±0.13 c, A	0.0±0.00 b, B	4	13.66	<0.0001
	10	0.0±0.00 a, B	0.0±0.00 a, B	0.3±0.06 c, B	0.9±0.20 c, A	0.0±0.00 b, B	4	18.13	<0.0001
	12	0.0±0.00 a, B	0.4±0.16 a, B	1.0±0.18 bc, A	1.0±0.19 c, A	0.0±0.00 b, B	4	14.17	<0.0001
	14	0.0±0.00 a, B	0.6±0.23 a, B	1.1±0.18 bc, A	1.0±0.19 c, A	0.0±0.00 b, B	4	11.81	<0.0001
	16	0.0±0.00 a, B	0.7±0.25 a, A	1.1±0.18 bc, A	1.0±0.19 c, A	0.0±0.00 b, B	4	10.75	<0.0001
	18	0.0±0.00 a, B	0.6±0.27 a, AB	1.1±0.18 bc, A	1.1±0.21 c, A	0.0±0.00 b, B	4	10.08	<0.0001
	20	0.0±0.00 a, B	0.9±0.31 a, A	1.2±0.20 bc, A	1.1±0.23 bc, A	0.0±0.00 b, B	4	10.01	<0.0001
	22	0.0±0.00 a, C	1.2±0.38 a, AB	1.9±0.33 ab, A	2.2±0.12 ab, A	0.6±0.05 ab, C	4	10.45	<0.0001
	24	0.0±0.00 a, C	1.2±0.38 a, AB	2.2±0.40 ab, A	2.3±0.12 ab, A	0.6±0.05 ab, C	4	13.41	<0.0001
	26	0.0±0.00 a, C	1.2±0.38 a, B	2.8±0.46 a, A	2.5±0.48 ab, A	0.9±0.03 b, BC	4	15.40	<0.0001
	28	0.0±0.00 a, C	1.4±0.46 a, BC	2.9±0.46 a, A	2.6±0.49 a, AB	1.2±0.17 a, BC	4	14.03	<0.0001
30	0.0±0.00 a, C	1.4±0.46 a, BC	2.9±0.47 a, A	2.7±0.50 a, AB	1.4±0.01 a, C	4	14.32	<0.0001	
Statistics	df	-	12	12	12	-			
	<i>F</i>	-	3.15	12.8	7.97	-			
	<i>P</i>	-	<0.0004	<0.0001	<0.0001	-			

Table S1-2. Comparison of symptom severity in Chinese cabbage between plants maintained at different temperatures according to time after inoculation with TuMV.

Growth stage	DPI	Symptom severity					Statistics		
		13°C	18°C	23°C	28°C	33°C	df	<i>F</i>	<i>P</i>
4 true leaf	6	0.0±0.00 a, A *	0.0±0.00 g, A	0.1±0.09 f, A	0.0±0.00 d, A	0.0±0.00 d, A	4	2.15	0.0832
	8	0.0±0.00 b, B	0.0±0.00 g, B	0.6±0.10 ef, A	0.5±0.00 cd, A	0.0±0.00 d, B	4	46.00	<0.0001
	10	0.0±0.00 b, C	0.0±0.03 g, C	1.3±0.12 de, A	0.5±0.09 cd, B	0.0±0.00 d, C	4	72.43	<0.0001
	12	0.0±0.00 b, C	0.7±0.22 f, B	1.3±0.03 de, A	0.7±0.08 c, B	0.5±0.13 c, B	4	14.96	<0.0001
	14	0.0±0.00 b, B	1.1±0.15 ef, A	1.4±0.03 de, A	0.7±0.08 bc, A	1.0±0.08 b, A	4	18.95	<0.0001
	16	0.0±0.00 b, C	1.7±0.14 de, A	1.5±0.12 d, A	1.1±0.10 bc, B	1.0±0.03 b, B	4	49.17	<0.0001
	18	0.0±0.00 b, C	1.9±0.16 cd, A	1.5±0.12 d, A	1.1±0.10 b, B	1.0±0.03 b, B	4	51.08	<0.0001
	20	0.0±0.00 b, D	2.3±0.14 bc, A	1.6±0.13 d, B	1.4±0.11 b, BC	1.1±0.05 b, C	4	67.84	<0.0001
	22	0.0±0.00 c, C	2.5±0.10 b, A	2.4±0.18 c, A	1.5±0.12 b, B	1.4±0.05 a, B	4	85.31	<0.0001
	24	0.0±0.00 c, C	2.8±0.12 b, A	2.8±0.22 ab, A	1.5±0.12 b, B	1.5±0.05 a, B	4	81.57	<0.0001
	26	0.0±0.00 b, C	2.9±0.03 b, A	3.3±0.24 ab, A	1.5±0.12 b, B	1.6±0.05 a, B	4	70.06	<0.0001
	28	0.0±0.00 c, C	3.5±0.08 a, A	3.4±0.25 ab, A	3.3±0.24 a, A	1.6±0.05 a, B	4	91.07	<0.0001
30	0.0±0.00 c, C	3.6±0.05 a, A	3.6±0.26 a, A	3.4±0.25 a, A	1.6±0.05 a, B	4	92.95	<0.0001	
Statistics	df	-	12	12	12	12	-	-	-
	<i>F</i>	-	104.9	41.48	61.99	124.66	-	-	-
	<i>P</i>	-	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-

* Within a column (small letter) and a low (capital letter), means with same letters are not significantly different ($P>0.05$, Tukey's studentized range test)

Table S2. List of primer pairs used for quantitative real-time PCR.

Primer ID	Primer sequences	Amplicon length (bp)
ACT1-F	5'-GGCTGATGACATTCAACCAATC-3'	109
ACT1-R	5'-CCTACCAACAACACTAGGGAAA-3'	
TuMV-122F	5'- GCTGGAACCTCTGGAAC TTT-3'	122
TuMV-122R	5'- TCCGGCGTGTATAGGATTAGA-3'	