```
SlHIPP26      MGVLDHISDMFDCSSEHSKHKRRKQLQTVEIKVKMDCEGCERKVRRSVEGMKGVSSVTIE      60
AtHIPP26      MGVLDHVSEMFDCSHGHK-IKKRKQLQTVEIKVKMDCEGCERKVRRSVEGMKGVSSVTLE      59
              ******:*:*****  *.  *:************************************:*

SlHIPP26      PKQHKLTVVGYVDPEKVVSRVAHRTGKKAEIWPYVPYDVVAHPYAQGVYDKKAPAGYVRR      120
AtHIPP26      PKAHKVTVVGYVDPNKVVARMSHRTGKKVELWPYVPYDVVAHPYAAGVYDKKAPSGYVRR      119
              ** **:********:***:*::******.*:************** ********:*****

SlHIPP26      D-DFQTNQLARASSTEVRYTTAFSDENPAACVVM        153
AtHIPP26      VDDPGVSQLARASSTEVRYTTAFSDENPAACVVM        153
                *  ..**************************
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Figure 1. Sequence alignment of HIPP26 proteins of tomato and *Arabidopsis* (At4G38580) obtained by CLUSTAL Omega (https://www.ebi.ac.uk/Tools/msa/clustalo/). The consensus symbols: "*" identical residues; ":" residues with strongly similar properties; "." residues with weakly similar properties.

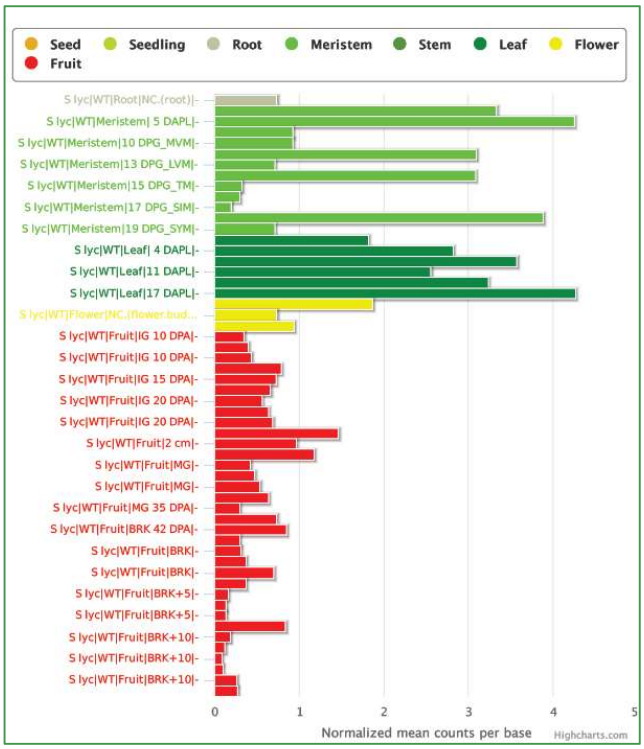

Figure 2. Expression of SlHIPP26 gene in organs of various *S. lycopersicum* cultivars.

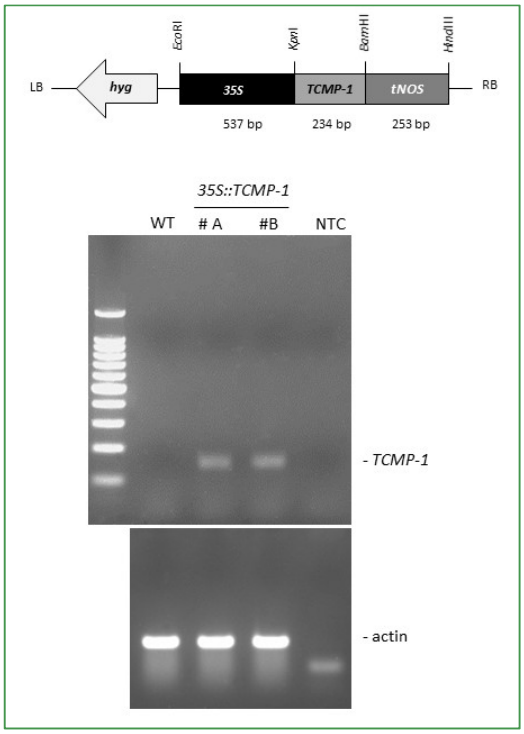

Figure 3. (Upper) Schematic drawing of *35S::TCMP-1* gene construct cloned into the T-DNA of the pCAMBIA 1200 vector. (Lower) RT-PCR analysis of TCMP-1 and actin gene expression conducted on WT and transgenic lines. NTC, not template control.

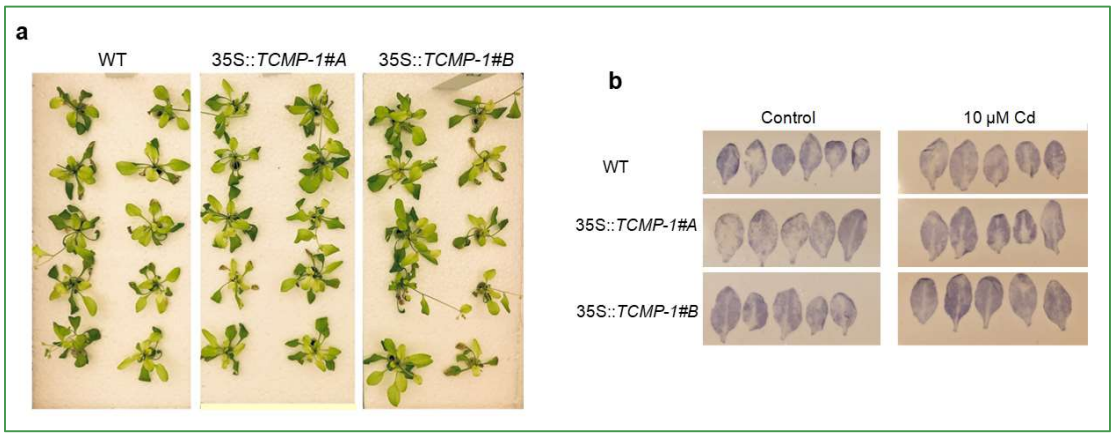

Figure 4. (a) Shoots of WT, *35S::TCMP-1#A* and *#B* plants after 10 days of hydroponic cultivation in the presence of 10 µM $CdSO_4$. **(b)** NBT staining to detect O^{2-} in the intact leaves of plants grown for 10 day in hydroponic Hoagland solution containing 10 µM $CdSO_4$.

Table 1. List of primers used in this work.

Gene	Application	Sequence (5′ →3′)
SlActin	Real-time	F: TTCAAAGGGCGAGTACGACGAG
(Solyc11g005330.2.1)	RT-PCR	R: CAGCAGACCCGACTTCACTTTT
SlTCMP-1	Real-time	F: GCTGCTCAAGATGTGATGGC
(Solyc07g007250.4.1)	RT-PCR	R: TCCAACAGGCCTGACAGAAC
NtActin	Real-time	F: ATCCCAGTTGCTGACAATTC
(XM_016628756.1)	RT-PCR	R: 5GACCCGCCATACTGGTGTGAT
NtMCPIa	Real-time	F: TAGGGACGATTGCTCTAAA
(AB518288.1)	RT-PCR	R: ACTCTGTTAATACGAGGTAA
NtMCPIb	Real-time	F: CAGGGATGATTGCTCTAGT
(AB518289.1)	RT-PCR	R: ACTTTGTTAATACGAGGTTT
AtUBI10	Real-time	F: AGGACAAGGAAGGTATTCCTC
(At4g05320)	RT-PCR	R: CTCCTTCTGGATGTTGTAGTC
AtHIPP26	Real-time	F: GTCGAGCTCTGGCCATATGT
(At4g38580)	RT-PCR	R: TACACCACTGCATTTAGCGAC
AtFSD1	Real-time	F: AGTTCTGCATCACCGAAGTCT
(At4g25100)	RT-PCR	R: ACAAGCAAAATGAAGAACTCTGT
AtFSD2	Real-time	F: TGTTATAGTGAAGACGCCCAAT
(At5g51100)	RT-PCR	R: AAAATCCAGATAGTAAGCGTGC
AtCSD1	Real-time	F: AAGAAGAGATTGATGTAATAAGGA
(At1g08830)	RT-PCR	R: CCACACTAAGCTCATAGGTTTT
AtCSD2	Real-time	F: GGCCATGAGCTTAGTCTGAC
(At2g28190)	RT-PCR	R: ACTTGCTTAGCCTCTGACTTA
SlTCMP-1 (37aa) (NM_001247005.3)	Y2H	F: CATGGAGGCCGAATTCCAGCAATATGATCCAGTTTGTCAC
		R: GCAGGTCGACGGATCCAACATAGGGCCCACATGTCC
SlHIPP26 (152 aa) (Solyc01g111600)	Y2H	F: GGAGGCCAGTGAATTCGGTGTTCTTGATCACATATCTGAC
		R: CGAGCTCGATGGATCCCATGACCACACAGGCTGC