



**Figure S1.** Validation of TuMV levels in Col-0, rbohD, rbohF, and rbohD/F plants at 3, 7, and 21 dpi based on normalized relative expression of *TuMV-CP*. Normalized relative expression of *TuMV-CP* was calculated based on the mean expression of *AtEflα* and *AtF-Box* reference genes. Statistical significance of differences was assessed at the  $p < 0.05$  level using ANOVA with post hoc Tukey's HSD and is indicated by different letters above the bars.

**Table S1.** Primer sequences for RT-qPCR analyses.

Genes	Forward Primer	Reverse Primer	Concentration in Reaction (μM)
<i>Investigated</i>			
<i>TuMV-CP</i>	5'- CCGGAATTCATGTTTGG TGYATIGAIAAYGG-3'	5'- CGCGGATCCGCGYYTTCATYTGIRIHWKI GC-3'	0.5
<i>AtPME3</i>	5'- CTCCGCCATTACCAACC A -3'	5'- CGTGTATCTGCCCTTCAA -3	0.5
<i>AtPME17</i>	5'- GAGAGGTGATGGTATAG GGA -3'	5'- GAGCTGTGATTGTGTGGTC -3'	0.5
<i>AtPME12</i>	5'- CTAGTCAAGACAGCAAC CAA -3'	5'- AGGCTCTGCTTAGCATCA -3'	0.5
<i>AtPME13</i>	5'- TCCGTACTCTTTCGTCAT ACTC -3'	5'- CTGATTTTATGCGGCTTGA -3'	0,5
<i>AtGAUT1</i>	5'- AGTTTCCACAGATTTCGA CAAG -3'	5'- CCATAAGCCCATCCACAAG -3'	0.5
<i>AtGAUT7</i>	5'- GGTTTGAATGTCGTTGAT CTTG -3'	5'- ACTCATCTCCACTACTCATCTC -3'	0.5

Genes	Forward Primer	Reverse Primer	Concentration in Reaction (μM)
<i>Reference</i>			
<i>AtEF1a</i>	5'- CACCACCTGGAGGTTTGG AGG -3'	3'- TGGAGTATTTGGGGGTGGT -5'	0.5
<i>AtF-Box</i>	5'- GCTTGACACGCCATAT CAAT-3'	3'-TGGATTTTACCACCTTCCGCA-5'	0.5

**Table S2.** Conditions of the RT-qPCR for the reference genes (\*).

Program	Parameters
Preliminary denaturation	95 °C for 10 min
Amplification (40 cycles)	95 °C for 15 s 58-61°C for 30 s 72 °C for 30 s *
Melting curve	65–95 °C; 0.1 °C/s

\* Fluorescence signal reading was taken at the final stage

**Table S3.** Predictions of protein localization according different predictors connected with SUBA5 prediction and integrated in database PubMed MS/MS results

Protein name	Results of bionforamtic subcellular localization predictions with predictors allocated in SUBA5	SUBAcon	MS/MS data
<b>AtPME3</b>	Golgi apparatus (predictors: PredSL, PProwler) Plastid (predictors: EpiLoc, PCLR) Vacuole (predictor: YLoc) Mitochondrion (predictors: iPSORT, SLPFA and SubLoc) Extracellular/cell wall (predictors: PredSL, PProwler, Plant-mPloc, TargetP) Nucleus (predictors: BaCellLo, SLP-Local) endoplasmic reticulum (predictors: TargetP, PredSL, PProwler) cytosol (Predictors: AdaBoost) plasma membrane (predictors: WoLF PSORT)	Extracellular/cell wall	Extracellular/cell wall, Golgi apparatus/Trans Golgi Network, Multivesicular body Mitochondrion, Nucleus, Plasma membrane Plastid, Vacuole,
<b>AtPMEI2</b>	Golgi apparatus (predictors: Predotar, PredSL, PProwler, SLPFA, SLP-Local, TargetP) Plastid (predictors: PCLR, WoLF PSORT, ChloroP) Mitochondrion (predictors: iPSORT, Mitoprot 2, SubLoc) Extracellular/ cell wall (predictors: Predotar, PredSL, PProwler, SLPFA, SLP-Local, TargetP, YLoc, MultiLoc) Nucleus (predictors: BaCellLo) Endoplasmic reticulum (predictors: TargetP, Predotar, PredSL, PProwler, SLPFA, SLP-Local) Plasma membrane (predictors: AdaBoost, Plant-mPloc)	Extracellular/cell wall	Nucleus
<b>AtPMEI3</b>	Golgi apparatus (predictors: Predotar, PredSL, PProwler, iPSORT, SLP-Local, TargetP) Plastid (predictors: AdaBoost, WoLF PSORT) Nucleus (predictors: BaCellLo) Extracellular/ cell wall (predictors: iPSORT, SLP-Local, TargetP, YLoc, Predotar, PredSL, PProwler) Endoplasmic reticulum (predictors: TargetP, Predotar, PredSL, PProwler, iPSORT, MultiLoc, SLP-Local) Plasma membrane (predictors: Plant-mPloc) Mitochondrion (predictors: SLPFA, SubLoc)	Extracellular/cell wall	Extracellular/cell wall
<b>AtGAUT1</b>	Golgi apparatus (predictors: EpiLoc, MultiLoc, YLoc) Plastid (predictors: Plant-mPloc, BaCellLo) Mitochondrion (predictors: MitoPred, PredSL, SLPFA, SubLoc, iPSORT, Predotar, PProwler, SLP-Local, TargetP) Cytosol (predictors: WoLF PSORT) Plasma membrane (predictors: AdaBoost)	Golgi apparatus	Extracellular/cell wall, Golgi apparatus/Trans Golgi Network Multivesicular body Plasma membrane Plastid Vacuole