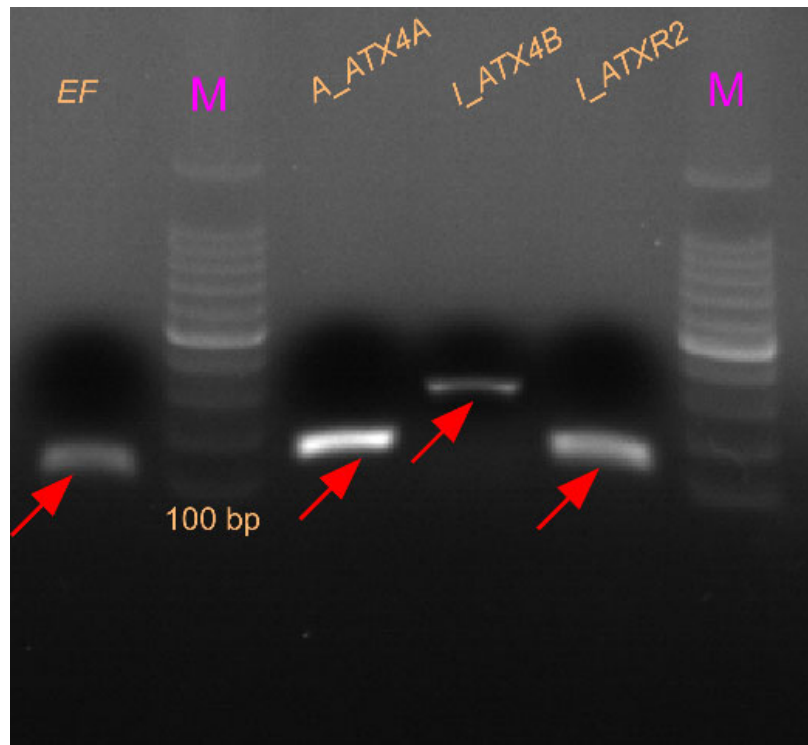
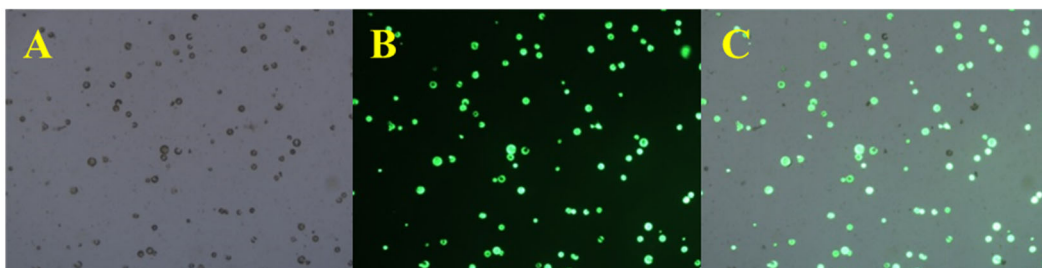


Supplementary Table S1. List of genes, designed primers, and amplicon characteristics.

Gene name	Reference sequence accession	Arabidopsis TAIR accession	Tblastx e-value	Primer sequences (Forward/ Reverse) (5'--- 3')	Tm (°C)	Amplicon Length (bp)
<i>Elongation factor 1- alpha</i> (EF1)	Peaxi162Scf00351g00412.1	AT5G60390.1	0.0	CCTGGTCAGATTGGAAATGG / CAGATCGCCTGTCAATCTTGG	60	103
<i>ARABIDOPSIS TRITHORAX- RELATED 2 (I_ATXR2)</i>	Peinf101Scf00264g06027.1	AT3G21820.1	0.0	CTTCAAATAAGGTTGACTGTTTGG / CACTGTTTTGGGAGACACCA	60	116
<i>ARABIDOPSIS TRITHORAX 4a (A_ATX4A)</i>	Peaxi162Scf00550g00547.1	AT4G27910.1	4e-32	TGGACCACAGAAAGGTGTGC/ CTGCAGACCCATGAAGTGAA	62	145
<i>ARABIDOPSIS TRITHORAX 4b (I_ATX4B)</i>	Peinf101Scf02092g02028.1	AT4G27910.1	1e-22	GGACCAATGGCTTTCCGGT/ TTC ACATGCTCGGCAGACC	62	264



Supplementary Figure S1. Agarose gel electrophoresis of qRT-PCR amplicons for reference and target genes from *Petunia x hybrid*. Arrows indicate the bands amplified by designed primers. *EF* reference gene of *elongation factor 1*; *M* DNA ladder; *A_ATX4A*, *I_ATX4B*, and *I_ATXR2* target genes.



Supplementary Figure S2. Fluorescence microscope images collected from purified protoplast of CPW 25% sucrose solution mixed with 0.01% FDA solution. A: Protoplast stained by FDA in white light. B: Protoplast stained by FDA in green light. C: Combined A and B.