

Figure S1. Level of mature miR172 in the embryogenic culture and 14-day-old seedlings of the 35S::MIR172D line. The relative miRNA level was normalised to an internal control (*At4g27090*) and calibrated to the WT (Col-0) culture of the same age (0d, 5d, and 10d) and 14-day-old seedlings. * – value significantly different from the Col-0 culture of the same age ($P < 0.05$; $n = 3 \pm \text{SD}$) and 14-day-old seedlings.

Table S1: List of the primers that were used for the Real Time qPCR analysis.

Gene	Primers sequence
<i>TOE1</i>	pF - AATAATCCCGCCGAGGGAAGAG pR - AACAAATGGTGGTGGTTGTGGTC
<i>TOE2</i>	pF - TGGAGCAGCTTCATGGAAACATGG pR - GCTTCCCTTCCCTCCATTGTACG
<i>TOE3</i>	pF - CCGATAAAGAAGAGCCGACGTG pR - TGTGCAGTGTCAAATCCACCTAAG
<i>SMZ</i>	pF - AAGGAGCCATGAAGTTTGGTG pR - TGCTGATAAAAGGGAATCCTG
<i>SNZ</i>	pF - AATGAGCACAACGATCTCGAG pR - GCCCATAGTAAAGGAAATGAG
<i>AP2</i>	pF - ATACTCCCAATTCAAACCACC pR - TCAAGAAGGTCTCATGAGAGG
<i>WUS</i>	pF - TCACCATCATCACGGTGTTT pR - AGAACAGTCTTGTTCCATAGA
<i>AGL15</i>	pF - CAAGGGCTTGAATCCTCTGA pR - GTTGTTCTTGAGGCGTGAT
<i>miR712</i>	pR - CGGGCGGAGAATCTTGATGATG pR - GTGCAGGGTCCGAGGT
<i>WUS</i> TSS+300	pF - GCCACAGCATCAGCATCATC pR - CGACACGTGTAACCACCAGA
<i>WUS</i> 3'UTR	pF - CATCATAGAGATAAAACGGTTGTCA pR - TCGCTCGGGATTAAAGCTC

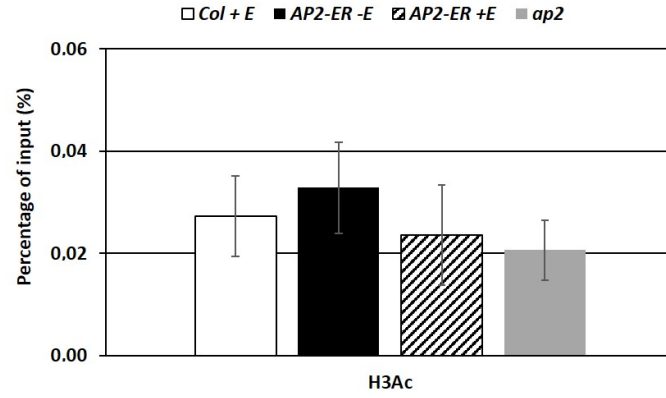


Figure S2. H3ac enrichment in the chromatin fragment that was bound to the 3'UTR of the *WUS* gene in the explants of Col-0 (WT), 35S::*AP2-ER* and *ap2*. *AP2* overexpression was induced with β -estradiol (+E). A statistical analysis indicated no differences between the compared combinations ($P < 0.05$; $n = 3 \pm \text{SD}$).

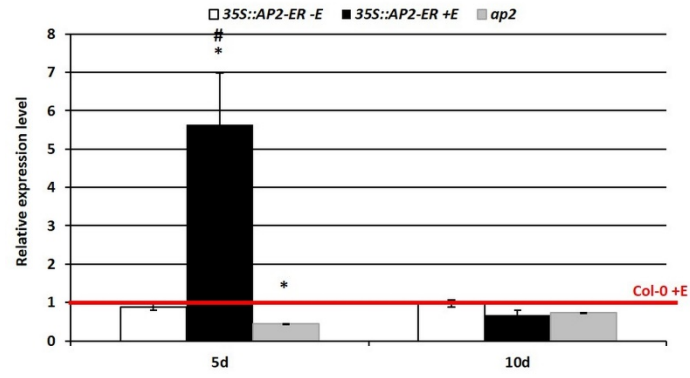


Figure S3: Expression analysis of *AGL15* in the SE culture in *AP2*-induced overexpressor line and the *ap2* mutant. The relative transcript level was normalised to an internal control (*At4g27090*) and calibrated to the WT (Col-0) culture of the same age. * values significantly different from the Col-0 culture of the same age ($P < 0.05$; $n = 3 \pm \text{SD}$); # - values significantly different from the 35S::AP2-ER -E culture of the same age ($P < 0.05$; $n = 3 \pm \text{SD}$).