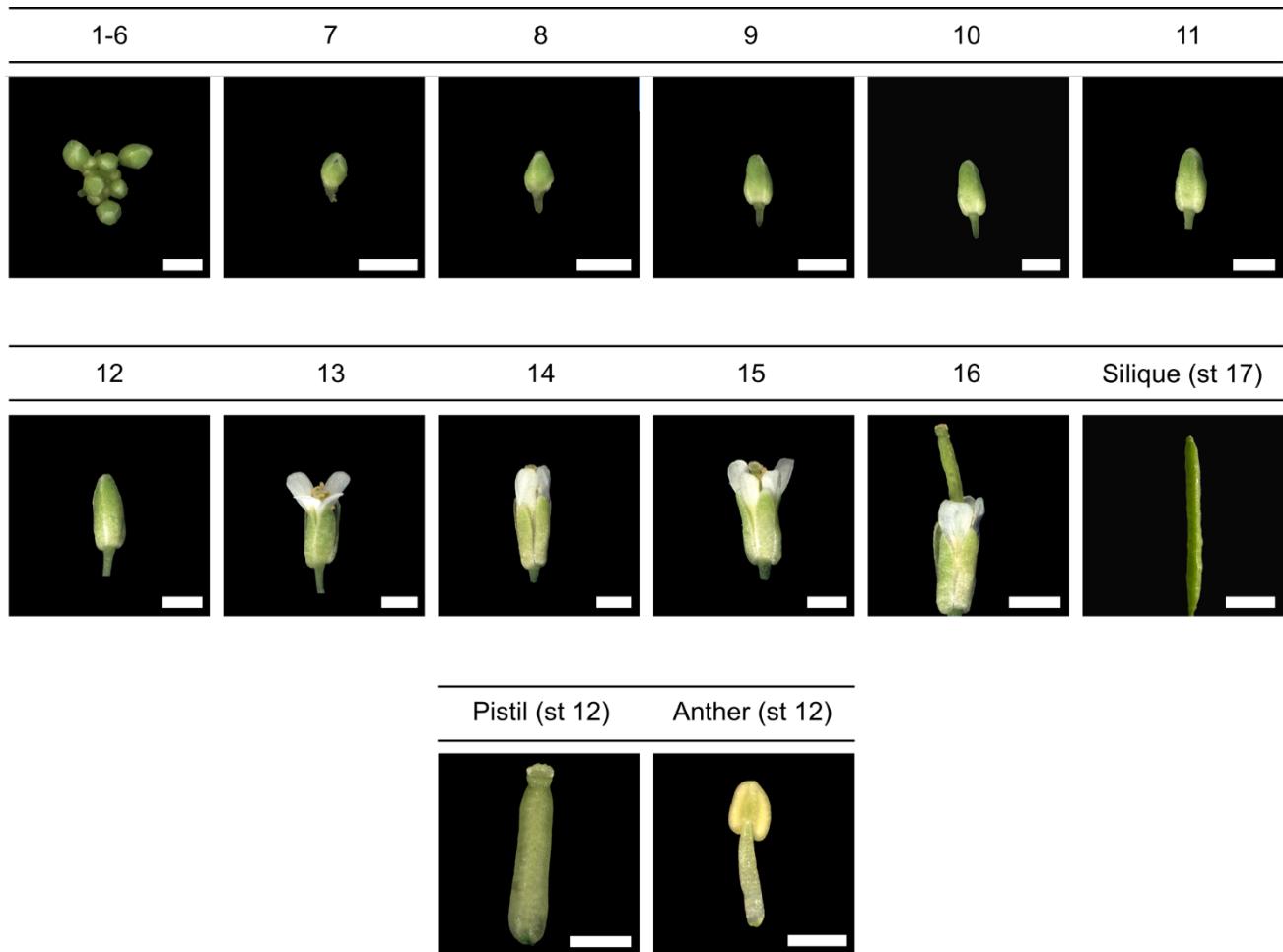
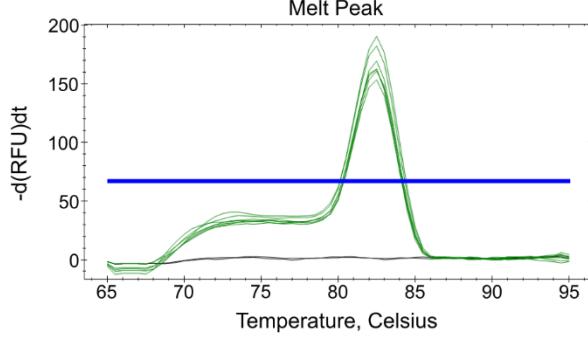
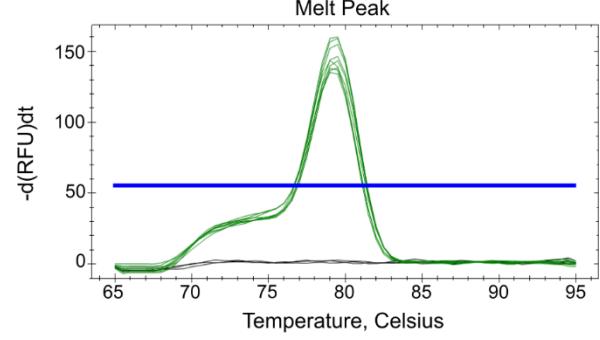
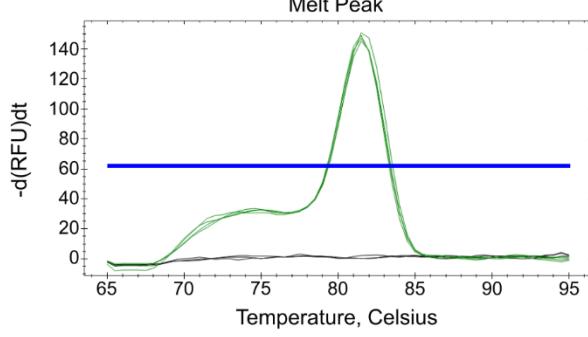
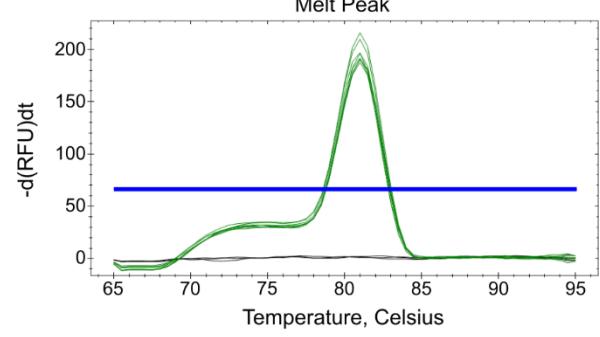
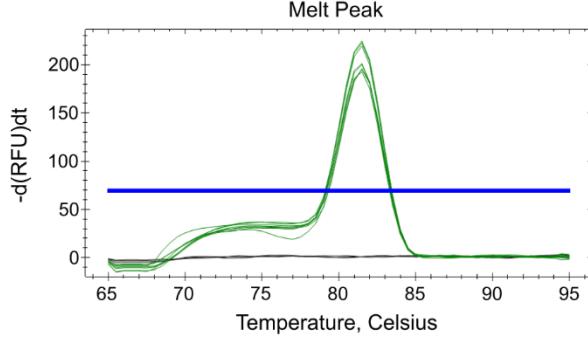
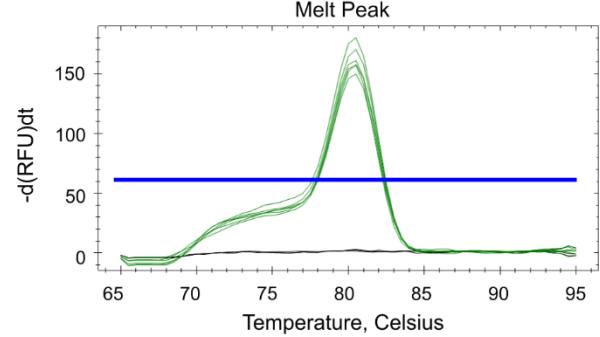
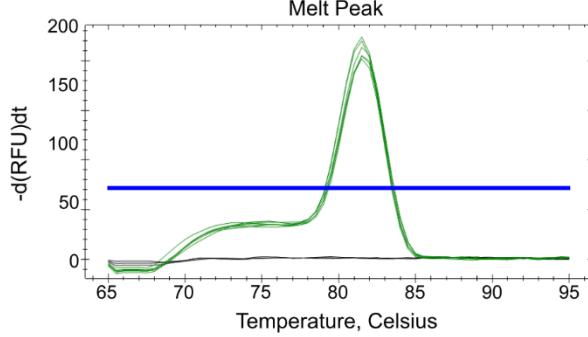
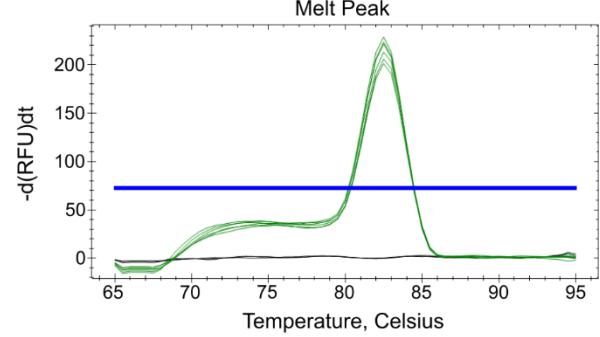
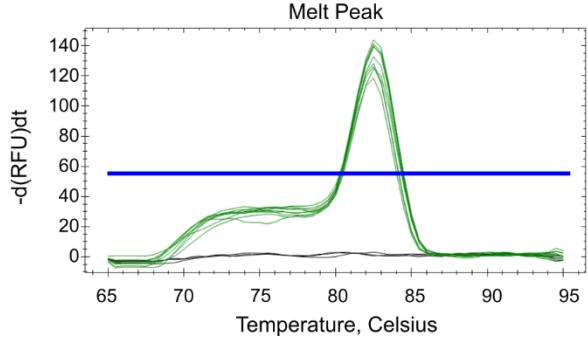
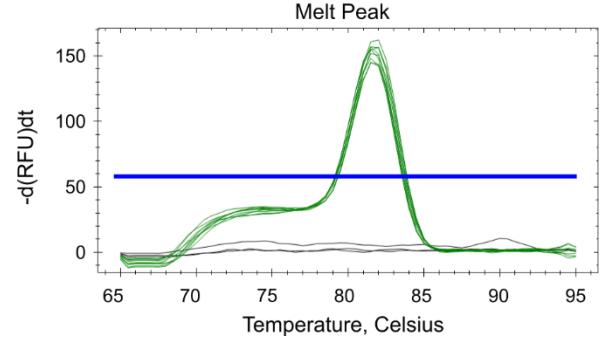


## Supplemental Information



**Figure S1.** Stages of flower development and tissues of *A. thaliana* used in this study. Images representing the developmental stages and tissues of *A. thaliana* flowers according to [38]. All images were obtained with a stereo microscope. Scale bars: 5 mm [Silique (st 17)], 1 mm (st 1-16) and 0.5 mm [Anther (st 12) and Pistil (st 12)]. Abbreviations: st, stage.

*UBC9**ACT7**GAPC-2**RCE1**PP2AA3**TUA2**SAC52**YLS8**SAMDC**HIS3.3*

**Figure S2.** Melt curves of ten candidate reference genes (*UBC9*, *ACT7*, *GAPC-2*, *RCE1*, *PP2AA3*, *TUA2*, *SAC52*, *YLS8*, *SAMDC* and *HIS3.3*) showing the specificity of qPCR amplification. Green lines are the melt curves of each sample tested, black lines are the melt curves of NTCs and the horizontal blue lines represent the baseline thresholds.

**Table S1.** Expression values on EVOREPRO (<https://evorepro.sbs.ntu.edu.sg/>) [33]. Expression values are presented as transcripts per million (TPM) on four different types of tissues defined by [33]: male (microspore, bicellular pollen, tricellular pollen, mature pollen, pollen tube, generative cell and sperm cell), female (ovary, ovule and egg cell), flower (carpels, stigmatic tissue, stamen filaments, anthers, petals, sepals, flower buds and receptacles) and seeds (endosperm, young seed, seed and germinating seed).

Gene Symbol	EVOREPRO - TPM			
	Male	Female	Flower	Seed
<i>UBC9</i>	117.82	229.75	225.95	109.95
<i>ACT7</i>	60.75	467.27	595.82	326.93
<i>GAPC2</i>	397.10	353.65	565.74	344.34
<i>RCE1</i>	61.63	91.96	114.17	81.26
<i>YLS8</i>	112.85	428.76	266.24	326.73
<i>TUA2</i>	329.40	364.31	306.89	288.50
<i>PP2AA3</i>	31.23	55.18	36.57	36.31
<i>SAC52</i>	680.44	882.82	820.79	1072.44
<i>SAMDC</i>	839.40	707.57	741.30	477.41
<i>HIS3.3</i>	101.10	545.44	471.98	397.63

**Table S2.** List of target genes and primer sequences used to validate the reference genes.

Locus	Gene Symbol	Gene Name	Primer Sequences Forward and Reverse (5' - 3')	Amplicon length (bp)
<i>AT5G14380</i>	<i>AGP6</i>	<i>Arabinogalactan protein 6</i>	TTCTAAGTTAACGTCGCCAC GACATTAGGTATATTTACTCC	135
<i>AT3G01700</i>	<i>AGP11</i>	<i>Arabinogalactan protein 11</i>	CCACGACTAATGTGAAGC CAACAGGGATGATGCTTTC	206
<i>AT5G10430</i>	<i>JAGGER</i>	<i>Arabinogalactan protein 4</i>	TCGCCACTTCAGCACTCGCTC CGGGAGCACTGCTTGGGCTC	261

**Table S3.** List of the most stable reference genes for each set and subset of samples according to geNorm, NormFinder, BestKeeper,  $\Delta Ct$  method and RefFinder.

Most Stable								
	Flower development	Flower (st 1-16)	Silique (st 17)	Pistil (st 12)	Anther (st 12)	Genotype	wt Col-0 vs. jagger	wt No-0 vs. agp6agp11
<b>geNorm</b>	TUA2 / RCE1	YLS8 / PP2AA3	TUA2 / YLS8	TUA2 / RCE1 / YLS8 / HIS3.3	TUA2 / RCE1 / YLS8 / SAC52 / HIS3.3	HIS3.3 / ACT7	HIS3.3 / SAMDC	HIS3.3 / YLS8 / GAPC-2
			/ PP2AA3 / SAC52 / HIS3.3 /		/ HIS3.3			
			SAC52 /		RCE1 /			
			YLS8 / TUA2		SAC52 /			HIS3.3 / YLS8 / GAPC-2
<b>NormFinder</b>	RCE1	YLS8	/ ACT7 / HIS3.3 /	YLS8 / TUA2 / HIS3.3 /	YLS8 / TUA2 / HIS3.3 /	YLS8	HIS3.3 / SAMDC	
					/ ACT7 /			
					UBC9 / RCE1			YLS8 /
<b>BestKeeper</b>	UBC9	GAPC-2	UBC9 / RCE1	UBC9	UBC9 / RCE1	UBC9	UBC9	GAPC-2 / HIS3.3
					/ TUA2 / SAC52 / YLS8 /			
<b>ΔCt method</b>	RCE1	YLS8	YLS8 / SAC52 / TUA2 / HIS3.3 /	YLS8 / SAC52 / TUA2 / HIS3.3 /	YLS8 / SAC52 / TUA2 / RCE1 /	YLS8	HIS3.3 / SAMDC	YLS8 / GAPC-2 / HIS3.3
<b>RefFinder</b>	RCE1	YLS8	TUA2	RCE1	UBC9	YLS8	HIS3.3	YLS8