

Table 1 Suppl. Primer sequences of reference genes and genes of interest.

	Genes	Forward primers	Reverse primers
Gene of interest	<i>AHAS1</i>	GACCGTTACCGGTGCAGCCT	CACGATCATCAAACCGCACC
	<i>GSH1</i>	GGATGGCCTGGAGAGAAGAG	GTGTTAAACCTGTTCTGACCACC
	<i>GSH2</i>	CCTCGGGCTTGATTCAAGAA	TACTACTGCACTCGGGTTGC
Reference gene	<i>ACT</i>	AGGGCGGTCTTTCCAAGTAT	ACATACATGGCGGGAACATT
	<i>PEP</i>	TTTGTGGTGCACAATTCGT	ACACGCCGAGCATAAAATACC
	<i>EF1a</i>	ACCGAGTGGTGGGTATTTCAG	TCAACGCTTGATCACACC
	<i>αTUB</i>	TGAAGGTGGAGAGACCAACC	ACTGGTGCCAATGAGGAAAG
	<i>βTUB</i>	AAGCAATTGCCTCCGTAAGA	TGTTGCTCAACAAGGCTACG
	<i>UBQ13</i>	AAACCTTGACAGGCAAGACA	GCTAAAGTCCTACCATCCTCCA

Table 2 Suppl. Quantitative real-time PCR parameters according to the Minimum information for publication of quantitative real-time PCR experiments (MIQE) guidelines derived from Bustin *et al.* 2010.

Sample/Template	
Source	<i>Arabidopsis thaliana</i> roots or leaves (entire rosette) in a hydroponic culture
Method of preservation	liquid N ₂
Storage time	maximum two weeks at -70°C
Handling	frozen
Extraction method	columns: RNAqueous Kit* (Life Technologies, Carlsbad, CA, USA)
RNA: DNA-free	TURBO DNA-free Kit* (Life Technologies) Design of intron-spanning primers whenever possible verification of single peak on dissociation curves
Concentration	NanoDrop [®] : ND-1000 Spectrofluorometer (ThermoScientific, Wilmington, DE, USA)
Assay optimisation/validation	
Accession number	Supplementary Table 2
Amplicon details	exon location and amplicon size: Supplementary Table 2
Primer sequence	Supplementary Table 2
<i>In silico</i>	Primers were blasted using the BLAST tool at http://arabidopsis.org/
Empirical	Primer concentration of 300 nM, unless stated otherwise Annealing temperature: 60°C
Priming conditions	Combination of oligodT-primers and random hexamers
Linear dynamic range	samples are within the range of the efficiency curve
Reverse transcription and quantitative PCR	
Protocols	SuperScript [™] III Reverse Transcriptase* (Life Technologies) High-Capacity cDNA Reverse Transcription Kit* (Life Technologies) Fast SYBR Green* (Life Technologies)
Reagents	As stated in the Materials and Methods section
No template control	As stated in the Materials and Methods section C _q and dissociation curve verification
Data analysis	
Specialist software	7900HT Sequence Detection Software, version 2.3 (Life Technologies)
Statistical justification	As stated in the Materials and Methods section and in Table legends
Normalisation	Minimum 3 reference genes selected using GrayNorm (Remans <i>et al.</i> , 2014) As stated in the Materials and Methods section

*All procedures were performed according to the manufacturer's protocol.