

Genes Subjected to qRT-PCR

Additional File 2. Supplement to BMC Bioinformatics paper *The statistics of identifying differentially expressed genes in Expresso and TM4: a comparison*, by Allan A. Sioson, Shrinivasrao P. Mane, Pinghua Li, Wei Sha, Lenwood S. Heath, Hans J. Bohnert, and Ruth Grene, 2006.

Supplementary Table 1: Annotation of genes subjected to qRT-PCR and the functional categories represented. For verification of microarray results in Experiment 2, Li et al. [23] performed real-time quantitative reverse-transcriptase PCR (qRT-PCR) for selected genes — 55 in Col-0; 52 in Cvi-0; 59 in WS; 26 in Th.

ANNOTATION OF QRT-PCR GENES	
AMINO ACID METABOLISM	
AT5GG5010	asparagine synthetase 2 (ASN2)
CARBON METABOLISM	
AT1G09960	sucrose transporter / sucrose-proton symporter (SUT4)
AT1G12240	beta-fructosidase (BFRUCT4) / beta-fructofuranosidase / invertase, vacuolar
AT1G22710	sucrose transporter / sucrose-proton symporter (SUC2)
AT1G35580	beta-fructofuranosidase / invertase / saccharase / beta-fructosidase
AT1G43670	fructose-1,6-bisphosphatase / D-fructose-1,6-bisphosphate 1-phosphohydrolase
AT1G58180	carbonic anhydrase family protein / carbonate dehydratase family protein
AT1G73110	ribulose bisphosphate carboxylase/oxygenase activase / RuBisCO activase
AT1G73370	sucrose synthase / sucrose-UDP glucosyltransferase
AT2G21590	ADPglucose pyrophosphorylase Large subunit 3, APL3
AT2G31390	pfkB-type carbohydrate kinase family protein
AT2G35840	sucrose-phosphatase 1 (SPP1)
AT3G01500	carbonic anhydrase 1, chloroplast / carbonate dehydratase 1 (CA1)
AT3G06500	beta-fructofuranosidase / invertase / saccharase / beta-fructosidase
AT3G29360	UDP-glucose 6-dehydrogenase
AT3G43190	sucrose synthase / sucrose-UDP glucosyltransferase
AT3G46970	Glucan phosphorylase (cytosolic), PHS2
AT3G52340	sucrose-phosphatase 3b (SPP3b)
AT4G03050	encodes a 2-oxoglutarate-dependent dioxygenase
AT4G09020	isoamylase / starch debranching enzyme

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ANNOTATION OF QRT-PCR GENES

AT4G26620 sucrose-related
AT4G37870 phosphoenolpyruvate carboxykinase (ATP) / PEP carboxykinase / PEPCK
AT4G39210 ADPglucose pyrophosphorylase Large subunit 4, APL4
AT5G11110 SPS5a, sucrose-phosphate synthase -like protein
AT5G22510 beta-fructofuranosidase / invertase / saccharase
AT5G43450 1-aminocyclopropane-1-carboxylate oxidase
AT5G51830 pfkB-type carbohydrate kinase family protein
AT5G55900 sucrose-related

HORMONES

AT1G14920 gibberellin response modulator (GAI) (RGA2) / gibberellin-responsive modulator
AT2G19590 1-aminocyclopropane-1-carboxylate oxidase / ACC oxidase

LIPID METABOLISM

AT5G01220 UDP-sulfoquinovose:DAG sulfoquinovosyltransferase / sulfolipid synthase (SQD2)

NUCLEIC ACIDS

AT2G30470 ABI3/VP1 family regulatory protein

SECONDARY METABOLISM

AT3G51240 naringenin 3-dioxygenase / flavanone 3-hydroxylase (F3H)
AT5G16450 dimethylmenaquinone methyltransferase family protein

SIGNALING

AT2G19860 hexokinase 2 (HXK2)
AT4G14110 COP9 signalosome subunit / CSN subunit (CSN8), CSN8, FUS7
AT4G26080 ABI1 protein phosphatase ABI1
AT4G29130 hexokinase 1 (HXK1)
AT5G02290 serine/threonine-specific protein kinase NAK
AT5G57050 ABI 2 protein phosphatase 2C

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ANNOTATION OF QRT-PCR GENES

STRESS

AT1G70290 TPS8, trehalose-6-phosphate synthase, putative

TRANSPORT

AT1G44100 amino acid permease 5

AT1G61800 glucose-6-phosphate/phosphate translocator

AT1G67940 ABC transporter family protein

AT1G71890 sucrose transporter / sucrose-proton symporter (SUC5)

AT2G02860 sucrose transporter / sucrose-proton symporter (SUC3)

AT5G54800 glucose-6-phosphate/phosphate translocator

UNCATEGORIZED

AT2G34810 putative berberine bridge enzyme

AT4G15610 integral membrane family protein

AT5G57685 expressed protein

CONCLUSION OF TABLE