

**Table S1.** Gene specific primers used in this study.

<b>Transcript_ID or GenBank accession no.</b>	<b>Annotation</b>	<b>Forward</b>	<b>Reverse</b>
<i>Sita101774958</i>	Ribulose biphosphate carboxylase (Rubisco)	CGGGTGTACGACGACGAG	TCTTGGGCTGCTGGAACG
<i>Sita101770259</i>	Ribulose biphosphate carboxylase (Rubisco)	TCCCCTGCCTCGAGTTCA	CAGTAGCGCCCGTCGTAG
<i>Sita101764983</i>	Ribulose biphosphate carboxylase (Rubisco)	GACGTTCGACCAGCCCAA	TACTTGTCGGCCAGCTGC
<i>Sita101759319</i>	Sucrose phosphate synthase (SPS)	TCACCGGCTACGACGAGA	GGCGCGTGTTCTTCTCCT
<i>Sita101781780</i>	Sucrose phosphate synthase (SPS)	TACGAGGAGCTGCTGGGT	GCCCTCAACGCCGATGAT
<i>Sita101752535</i>	Sucrose phosphate synthase (SPS)	TCGCAAACCTAACGCTGATACTGG	CGTCGGTCTGGTTGTGGTGCTT
<i>Sita101771800</i>	ADP-glucose pyrophosphorylase (AGPase)	ACTCCCTTTGTCCCTCCCTCT	AAGGCAGGCAGGATGATGAG
<i>Sita101786779</i>	Granule-bound starch synthase (GBSS)	AGGAGGGCATCACCGGAT	ATCACATGGAACGCCGGG
<i>Sita101758779</i>	Starch synthase (SS)	CAAGGTACAGGGTGGGCG	CCCCGCTTCATGAGTCCC
<i>Sita101785561</i>	Starch synthase (SS)	GCTGAACCGGTGGAAGCT	GAAGCCACCACGACGACA
<i>Sita101761472</i>	Starch synthase (SS)	CCCAGTGGTTCATGCGGT	AGTGCCCTAGAGCGTCGA
<i>Sita101774804</i>	Starch synthase (SS)	CCTTTACGACACCGTCTTTG	TTGAACCAGTCACGAGCATC

<i>Sita101762615</i>	Sucrose synthase (SuSy)	TGTCAACCTTGTAGTCGTGGGA	CGGTCTGTCTGGGCTCTTAT
<i>Sita101783222</i>	Sucrose synthase (SuSy)	TCCCTCTCCGCTCATCCC	CAGCCTCAGGGATAGCGC
<i>Sita101774900</i>	Invertase (INV)	GATGTGACTGAGGAGGTCTTG	TGTTATTGAGGGCACGGATT
<i>Sita101765478</i>	Invertase (INV)	AATGGACTTCCGCTGGTTCGC	CCCGTCACAATCTGCCACTCG
<i>Sita101770954</i>	Invertase (INV)	GAACGACCCGTCCACCAG	TGCAAGGTGTGGAGCAGG
<i>Sita101760744</i>	Nitrate reductase (NR)	GGGCTACACCATGAAAGGATACG C	GGACCAGAAGCACCAGCACCA G
<i>Sita101773167</i>	Nitrate reductase (NR)	GCACCCAAATGAAGCCTAAC	TGGAGTCCAATCCAGCGAAT
<i>Sita101772334</i>	Glutamine synthetase (GS)	GGAGTTCCAAGTCGGCCC	CACCAGGGATGGGCTTGG
<i>Sita101764285</i>	Glutamine synthetase (GS)	AGGGCAAGCTCCAGGAGA	GGTTCCCCAGCTGGTGTG
<i>Sita101785947</i>	Glutamate synthase (GOGAT)	AAGCTCAGGTGCTGGCTG	CCAATGCTTCGCGCCATC
<i>Sita101770266</i>	Glutamate synthase (GOGAT)	TTGGGCAATCGCAGAGGG	ATGCCGCGACAGGTTGAA
<i>Sita101778373</i>	Glutamate dehydrogenase (GDH)	CATGACACGCGCCTTTGG	GTTGACGCCGAGGGTGAA
<i>Sita101755619</i>	Glutamate dehydrogenase (GDH)	ACGGATGTCCCAGCTCCT	GGGGAGTGGCCATGGAAC
<i>SiActin</i>	SETIT_026509mg	CGCATATGTGGCTCTTGACT	GGGCACCTAAATCTCTCTGC

**Table S2.** Composition and dosage of qRT-PCR reaction system.

Reagent	Dosage
TB Green Premix Ex Taq II	5.0 $\mu$ L
Forward Primer	0.5 $\mu$ L
Reverse Primer	0.5 $\mu$ L
cDNA	1.0 $\mu$ L
dd H <sub>2</sub> O	3.0 $\mu$ L
Total	10.0 $\mu$ L

**Table S3.** Program used for qRT-PCR.

Program	T <sub>m</sub>	Time
Step 1 (predegeneration)	95°C	30 s
Step 2 (degeneration)	95°C	5 s
Step 3 (Genetic annealing extension)	T <sub>m</sub> °C	30 s
Go to step 2	39 Cycles	
Step 4 (dissolution curve)	60°C (5s) to 95°C; End.	