

**Supplemental Table 3.** List of genes with expression level significantly higher more than 2 times in *sta1-1* than in the wild type

Probe ID	Fold Change	p-value	AGI ID	Gene Name
260522_x_at	15.98	0.05	At2g41730	expressed protein
263402_at	14.62	0.03	At2g04050	MATE efflux family protein
248434_at	10.91	0.02	At5g51440	23.5 kDa mitochondrial small heat shock protein (HSP23.5-M)
247615_at	9.43	0.01	At5g60250	zinc finger (C3HC4-type RING finger) family protein
263515_at	8.28	0.03	At2g21640	expressed protein
264042_at	7.47	0.04	At2g03760	steroid sulfotransferase, putative
263061_at	7.38	0.00	At2g18190	AAA-type ATPase family protein
253894_at	6.61	0.04	At4g27150	2S seed storage protein 2
263401_at	6.59	0.00	At2g04070	MATE efflux family protein
265422_at	6.25	0.02	At2g20800	pyridine nucleotide-disulphide oxidoreductase family protein
255893_at	6.20	0.01	At1g17960	threonyl-tRNA synthetase, putative
249784_at	6.15	0.02	At5g24280	expressed protein
245173_at	5.50	0.02	At2g47520	AP2 domain-containing transcription factor, putative
256989_at	4.02	0.03	At3g28580	AAA-type ATPase family protein
256459_at	4.00	0.02	At1g36180	acetyl-CoA carboxylase 2 (ACC2)
261192_at	3.81	0.02	At1g32870	no apical meristem (NAM) family protein
265099_at	3.69	0.04	At1g03990	alcohol oxidase-related
266729_at	3.55	0.04	At2g03130	ribosomal protein L12 family protein
265668_at	3.53	0.03	At2g32020	GCN5-related N-acetyltransferase (GNAT) family protein
251432_at	3.49	0.02	At3g59820	calcium-binding mitochondrial protein-related
251012_at	3.39	0.04	At5g02580	expressed protein
251282_at	3.23	0.03	At3g61630	AP2 domain-containing transcription factor, putative
266618_at	3.16	0.02	At2g35480	expressed protein
250024_at	3.15	0.02	At5g18270	no apical meristem (NAM) family protein
266217_at	3.10	0.02	At2g28820	ribosomal protein L16 family protein
252427_at	3.09	0.04	At3g47640	basic helix-loop-helix (bHLH) family protein
246282_at	3.06	0.02	At4g36580	AAA-type ATPase family protein
253890_s_at	3.06	0.05	At5g54100	band 7 family protein
264821_at	2.96	0.04	At1g03470	kinase interacting family protein
257809_at	2.91	0.02	At3g27060	ribonucleoside-diphosphate reductase small chain, putative
258418_at	2.79	0.02	At3g16660	expressed protein
247989_at	2.74	0.04	At5g56350	pyruvate kinase, putative
264868_at	2.65	0.04	At1g24090	RNase H domain-containing protein
250196_at	2.61	0.02	At5g14580	polyribonucleotide nucleotidyltransferase, putative
256132_at	2.59	0.03	At1g13610	expressed protein
260227_at	2.57	0.04	At1g74450	expressed protein
255430_at	2.55	0.04	At4g03320	chloroplast protein import component-related
267162_s_at	2.51	0.04	At2g37690	phosphoribosylaminoimidazole carboxylase family protein

258235_at	2.49	0.02	At3g27620	alternative oxidase 1c, mitochondrial (AOX1C)
267627_at	2.43	0.05	At2g42270	U5 small nuclear ribonucleoprotein helicase, putative
253013_at	2.43	0.04	At4g37910	heat shock protein 70, mitochondrial, putative
256858_at	2.39	0.02	At3g15140	exonuclease family protein
259409_at	2.38	0.02	At1g13330	expressed protein
264895_at	2.32	0.03	At1g23100	10 kDa chaperonin, putative
264460_at	2.32	0.02	At1g10170	NF-X1 type zinc finger family protein
251985_at	2.30	0.03	At3g53220	thioredoxin family protein
247431_at	2.26	0.04	At5g62520	expressed protein
256852_at	2.25	0.01	At3g18610	nucleolin, putative
259143_at	2.25	0.03	At3g10190	calmodulin, putative
257724_at	2.20	0.05	At3g18510	expressed protein
256188_at	2.20	0.02	At1g30160	expressed protein
247317_at	2.19	0.04	At5g64060	no apical meristem (NAM) family protein
258029_at	2.19	0.03	At3g27580	protein kinase, putative
255685_s_at	2.19	0.02	At4g00600	tetrahydrofolate dehydrogenase/cyclohydrolase, putative
257066_at	2.15	0.03	At3g18280	protease inhibitor/seed storage/lipid transfer protein (LTP) family protein
245879_at	2.15	0.05	At5g09420	chloroplast outer membrane translocon subunit, putative
265340_at	2.14	0.05	At2g18330	AAA-type ATPase family protein
258170_at	2.10	0.05	At3g21600	senescence/dehydration-associated protein-related
259582_at	2.09	0.02	At1g28060	small nuclear ribonucleoprotein family protein
252305_at	2.09	0.04	At3g49240	pentatricopeptide (PPR) repeat-containing protein
245063_at	2.07	0.04	At2g39795	mitochondrial glycoprotein family protein
263902_at	2.06	0.02	At2g36230	N <sup>1</sup> -5'-phosphoribosyl-formimino-5-aminoimidazole-4-carboxamide ribonucleotide isomerase
266668_at	2.06	0.02	At2g29760	pentatricopeptide (PPR) repeat-containing protein
261187_at	2.05	0.03	At1g32860	glycosyl hydrolase family 17 protein
246249_at	2.04	0.04	At4g36680	pentatricopeptide (PPR) repeat-containing protein
257149_at	2.03	0.02	At3g27280	prohibitin, putative
261065_at	2.03	0.05	At1g07500	expressed protein
265954_at	2.03	0.03	At2g37260	WRKY family transcription factor (TTG2)
247575_at	2.03	0.05	At5g61030	RNA-binding protein, putative
258449_s_at	2.02	0.05	At3g22310	DEAD box RNA helicase, putative
248605_at	2.01	0.02	At5g49410	expressed protein

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