

Function	Locus	Gene names	Description	Metal cofactor	Subcellular location	Antibody	Normalized Gene Counts (log2)						
							Day 0 Shoots + Fe	Day 2 Shoots + Fe	Day 2 Shoots - Fe	Day 4 Shoots + Fe	Day 4 Shoots - Fe	Day 7 Shoots + Fe	Day 7 Shoots - Fe
Photosynthetic electron transport	ATG000020	PSBA	PsbA (D1 protein) subunit of the photosystem II	-	Plastids	AS05 084							
	ATG000680	PSBB	PsbB (CP47 protein) subunit of the photosystem II	-	Plastids	AS04 038							
	ATG000280	PSBC	PsbC (CP43 protein) subunit of the photosystem II	-	Plastids	AS11 1787							
	ATG000270	PSBD	PsbD (D2 protein) subunit of the photosystem II	-	Plastids	AS06 146							
	ATG000580	PSBE	Cytochrome b559 (alpha subunit) of photosystem II	Heme	Plastids	AS06 112							
	ATG000570	PSBF	Cytochrome b559 (beta subunit) of photosystem II	-	Plastids	AS06 113							
	ATG026500	CYT8E	PetM subunit of the cytochrome b6/f complex	Heme	Plastids	AS08 306	18.793	18.696	18.651	18.636	18.513	18.729	18.282
	ATG033200	PE1C	Rieske subunit (PGR1) of the cytochrome b6/f complex	[2Fe-2S]	Plastids	AS08 330	14.255	14.269	14.160	14.292	13.898	14.296	13.707
	ATG000540	CYT1F	PsaK subunit of the cytochrome b6/f complex	Heme	Plastids	AS08 306	16.757	16.721	16.593	16.731	16.381	16.641	16.324
	ATG167100	PC1	Plastocyanin	Cu	Plastids	Pilon Lab (a)	11.164	11.153	11.048	11.529	11.091	11.111	10.873
	ATG1620340	PC2	Plastocyanin	Cu	Plastids	Pilon Lab (a)	15.660	15.734	15.535	15.658	15.275	15.826	15.071
	ATG000350	PSAA	PsaA subunit of photosystem I	[4Fe-4S]	Plastids	AS06 172	18.397	18.188	18.055	18.109	18.129	17.993	18.016
	ATG000340	PSAB	PsaB (D1 protein) subunit of photosystem I	[4Fe-4S]	Plastids	AS10 695	18.613	18.390	18.238	18.292	18.328	18.233	18.236
	ATG001060	PSAC	PsaC subunit of photosystem I	[4Fe-4S]	Plastids	AS10 939	17.650	17.662	17.539	17.612	17.345	17.680	17.299
	ATG0422770	PSAD1	PsaD1 subunit of photosystem I	-	Plastids	AS09 461	15.323	15.148	15.019	15.239	14.735	15.322	14.412
	ATG1603130	PSAD2	PsaD2 subunit of photosystem I	-	Plastids		14.178	14.030	13.816	14.246	13.594	14.249	12.920
	ATG101060	FD1	Ferredoxin	[4Fe-4S]	Plastids		12.367	12.238	12.094	11.967	11.538	12.408	12.066
	ATG160950	FD2	Ferredoxin	[4Fe-4S]	Plastids	AS06 121	15.180	15.177	14.418	15.175	13.900	15.174	13.498
	ATG27510	FD3	Ferredoxin	[4Fe-4S]	Plastids		7.844	7.599	7.636	8.873	6.838	7.783	7.637
Fe-S cluster biogenesis	ATG435090	CAT2	Catalase	Heme, Mn	Peroxisome								
	ATG020620	CAT3	Catalase	Heme, Mn	Peroxisome		12.048	11.765	11.878	12.809	11.950	12.103	11.724
	ATG077890	APX1	Ascorbate peroxidase	Heme	Cytosol								
	ATG309640	APX2	Ascorbate peroxidase	Heme	Cytosol								
	ATG435000	APX3	Ascorbate peroxidase	Heme	Peroxisome								
	ATG009010	APX4	Ascorbate peroxidase	Heme	Peroxisome								
	ATG435970	APX5	Ascorbate peroxidase	Heme	Peroxisome	AS08 368	11.351	11.271	11.078	11.585	10.807	11.292	10.703
	ATG432320	APX6	Ascorbate peroxidase	Heme	Cytosol		8.511	8.710	8.609	8.667	8.622	8.303	8.670
	ATG177490	APX7	Ascorbate peroxidase	Heme	Plastids		10.721	10.619	10.473	10.777	10.231	10.693	10.073
	ATG408300	APX8	Ascorbate peroxidase	Heme	Plastids		9.133	8.770	7.795	9.222	7.053	8.825	6.892
	ATG422510	FSO1	Iron superoxide dismutase	Fe	Plastids		4.482	2.927	2.977	2.989	0.838	5.577	0.742
	ATG051100	FSO2	Iron superoxide dismutase	Fe	Plastids	AS06 125	8.765	8.847	8.711	9.357	8.438	8.459	8.476
	ATG523310	FSO3	Iron superoxide dismutase	Fe	Plastids		8.216	8.143	7.974	9.258	7.538	7.618	7.997
	ATG310920	MSD1	Manganese superoxide dismutase	Mn	Mitochondria	AS09 524							
	ATG160830	CSO1	Copper-zinc superoxide dismutase	Cu/Zn	Cytosol	Kliebenstein, D. J. (b)	11.846	11.936	12.143	12.409	12.026	11.799	12.256
	ATG28190	CSO2	Copper-zinc superoxide dismutase	Cu/Zn	Plastids	AS06 170	13.593	13.639	13.583	13.757	13.260	13.539	13.196
Fe-S cluster biogenesis	ATG101050	SUF4	Protein (IsaC) involved in Fe-S cluster assembly	Fe/[Fe-S]	Plastids	Pilon Lab (c)	8.559	8.605	8.683	8.787	8.725	8.514	8.654
	ATG404770	SUF8	ABC transporter involved in Fe-S cluster assembly scaffold	-	Plastids	Rouhier, N. (d)	10.458	10.393	9.406	10.412	8.791	10.143	8.411
	ATG310670	SUF6	Fe-S cluster biogenesis	-	Plastids		8.722	8.570	8.572	8.917	8.461	8.575	8.435
	ATG163250	SUF0	Fe-S cluster biogenesis	-	Plastids		8.577	8.738	8.613	8.886	8.399	8.539	8.354
	ATG026500	SUF1	Activator of cysteine desulfurase NFS	-	Plastids/ Mitochondria?	Pilon Lab (e)	7.551	7.486	7.501	7.968	7.336	7.487	7.483
	ATG167810	SUF2	Activator of cysteine desulfurase NFS	-	Plastids/ Mitochondria?								
	ATG50210	SUF3	Activator of cysteine desulfurase NFS	-	Plastids/ Mitochondria?		7.930	7.930	7.878	7.961	7.907	7.841	7.619
	ATG565720	NFS1	Cysteine desulfurase	-	Mitochondria	Pilon Lab (f)	9.119	9.043	9.025	9.401	8.953	9.038	9.304
	ATG024490	NFS2	Cysteine desulfurase	-	Plastids		8.624	8.640	8.716	8.797	8.545	8.574	8.687
	ATG401940	NFU1	Fe-S cluster binding, iron binding	-	Plastids		9.917	10.017	9.917	10.202	9.910	9.872	9.890
	ATG549940	NFU2	Fe-S cluster binding, iron binding	-	Plastids		9.900	9.928	9.806	10.114	9.738	9.878	9.813
	ATG422910	NFU3	Fe-S cluster binding, iron binding	-	Plastids		8.874	9.000	8.866	9.296	8.774	9.012	8.687
	ATG50690	NBP35	[4Fe-4S] and [2Fe-2S] clusters assembly	Fe/[Fe-S]	Cytosol	Balk, J. (g)							
	ATG324430	HCF101	high chlorophyll fluorescence 101	Fe/[Fe-S]	Plastids	Deimuller, R. (h)							
Fe homeostasis	ATG501600	FER1	Ferritin	Fe	Plastids		11.774	12.225	9.158	10.821	7.179	9.308	5.901
	ATG311050	FER2	Ferritin	Fe	Plastids								
	ATG355090	FER3	Ferritin	Fe	Plastids	Briat, J.F. (i)	10.221	10.227	8.533	10.170	7.695	9.065	8.194
	ATG240300	FER4	Ferritin	Fe	Plastids/Mitochondria?		8.832	8.763	6.912	9.053	5.783	7.762	5.405
	ATG419690	IRT1	Iron-Regulated Transporter 1	-	Plasma membrane	Curie, C. (l)							
	ATG369970	BHLH038	bHLH transcription factor	-	Nucleus		2.869	4.361	9.088	2.058	10.132	3.337	12.173
	ATG241240	BHLH100	bHLH transcription factor	-	Nucleus		4.414	3.048	8.026	4.344	8.450	2.409	10.549
	ATG347640	PYE	bHLH transcription factor	-	Nucleus		7.508	7.240	8.125	7.050	7.949	7.577	8.948
Nitrate assimilation	ATG504140	GLS1	Fd-GOGAT, Ferredoxin dependent glutamate synthase	[3Fe-4S]	Plastids	AS07 242							
	ATG241220	GLS2	Fd-GOGAT, Ferredoxin dependent glutamate synthase	[3Fe-4S]	Plastids								
	ATG177760	NA1	Nitrate reductase	Heme, Mo	Plastids								
	ATG1037130	NA2	Nitrate reductase	Heme, Mo	Plastids	AS08 310							
	ATG215620	NIR	Nitrite reductase	Heme, Mo	Plastids		10.890	10.999	10.438	10.462	9.963	10.542	9.873
Sulfate assimilation	ATG404610	APR1	3'-phosphoadenosine-5'-phosphosulfate (PAPS) reductase	[4Fe-4S]	Plastids		9.442	9.276	9.639	9.201	8.832	9.658	9.482
	ATG162180	APR2	3'-phosphoadenosine-5'-phosphosulfate (PAPS) reductase	[4Fe-4S]	Plastids	Kopriva, S. (k)	12.121	11.948	11.769	11.414	11.193	12.416	11.452
	ATG421990	APR3	3'-phosphoadenosine-5'-phosphosulfate (PAPS) reductase	[4Fe-4S]	Plastids		9.361	9.272	9.150	9.006	8.518	9.678	8.985
	ATG504590	SIR1	Sulfite reductase, β subunit	[4Fe-4S] + siroheme	Plastids	Hase, T. a (l)	11.561	11.539	11.346	11.820	10.886	11.469	10.625
Mitochondrial electron transport	ATG322370	AOX1A	Alternative oxidase	d-iron center	Mitochondria		8.096	7.679	7.735	6.515	7.737	7.854	9.700
	ATG322380	AOX1B	Alternative oxidase	d-iron center	Mitochondria								
	ATG327620	AOX1C	Alternative oxidase	d-iron center	Mitochondria	AS04 054	4.049	3.576	4.094	4.377	4.415	4.067	3.767
	ATG163250	AOX1D	Alternative oxidase	d-iron center	Mitochondria								
	ATG54210	AOX2	Alternative oxidase	d-iron center	Mitochondria								
	ATM00160	COX2	Cytochrome oxidase subunit II	Cu	Mitochondria	AS04 052							
Light Harvesting Complex	ATG354890	LHC4A1	Chlorophyll a/b binding protein associated with photosystem I	-	Plastids	AS01 005							
	ATG361470	LHC4A2	Chlorophyll a/b binding protein associated with photosystem I	-	Plastids	AS01 006	16.017	15.937	15.724	15.994	15.468	16.069	15.266
	ATG161520	LHC4A3	Chlorophyll a/b binding protein associated with photosystem I	-	Plastids	AS01 007							
	ATG347470	LHC4A4	Chlorophyll a/b binding protein associated with photosystem I	-	Plastids	AS01 008							
	ATG161910	LHC4A5	Chlorophyll a/b binding protein associated with photosystem I	-	Plastids		11.269	11.351	11.118	11.073	10.829	11.352	10.860
	ATG162920	LHC8.1	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids								
	ATG162910	LHC8.2	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids								
	ATG162930	LHC8.3	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids	AS09 522							
	ATG234430	LHC8.4	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids								
	ATG234420	LHC8.5	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids								
	ATG205100	LHC8.2.1	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids		15.600	15.616	15.620	15.698	15.429	15.703	15.136
	ATG205070	LHC8.2.2	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids	AS01 003	7.694	7.571	7.323	7.587	6.883	7.726	6.786
	ATG327690	LHC8.2.3	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids		13.088	12.894	12.583	13.212	12.238	13.157	11.927
	ATG564270	LHC8.3	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids	AS01 002							
	ATG501530	LHC8.4.1	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids								
	ATG508940	LHC8.4.2	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids	AS04 045							
	ATG240100	LHC8.4.3	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids								
	ATG410340	LHC8.5	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids	AS01 009							
	ATG161820	LHC8.6	Chlorophyll a/b binding protein associated with photosystem II	-	Plastids	AS01 010							
Miscellaneous	ATG403530	ACO1	Aconitase	[4Fe-4S]	Cytosol		10.357	10.266	10.297	10.432	10.353	10.329	10.568
	ATG426970	ACO2	Aconit										