

Supplementary Table S1. DEGs with non-synonymous SNPs in leaves

Gene Symbol	Description
LOC8086204	zinc finger protein ZPR1
LOC8073388	zinc finger BED domain-containing protein RICESLEEPER 2
LOC8084290	UPF0481 protein At3g47200
LOC8063682	UDP-glycosyltransferase 91C1
LOC8081774	UDP-glycosyltransferase 76C2
LOC8085391	transmembrane protein 56-B
LOC8058078	transcription factor GHD7
LOC8064842	tonoplast dicarboxylate transporter
LOC8085912	TIP41-like protein
LOC8071656	SPX domain-containing protein 1
LOC8082672	S-norcochlorine synthase
LOC8058550	signal recognition particle 54 kDa protein, chloroplastic
LOC8072649	RING-H2 finger protein ATL80
LOC8076019	RING-H2 finger protein ATL8
LOC8071965	putative H/ACA ribonucleoprotein complex subunit 1-like protein 1
LOC8055494	protein NUCLEAR FUSION DEFECTIVE 4
LOC8071228	protein NETWORKED 4A
LOC8057624	protein HASTY 1
LOC8084587	prohibitin-2, mitochondrial
LOC8082038	probable LRR receptor-like serine/threonine-protein kinase At4g36180
LOC8070645	probable F-box protein At2g36090
LOC8086436	probable carboxylesterase 15
LOC8061535	probable acyl-activating enzyme 5, peroxisomal
LOC8066766	proactivator polypeptide-like 1
LOC8077640	premnaspirodiene oxygenase
LOC8071139	polyphenol oxidase II, chloroplastic
LOC8082269	phosphatidylcholine:diacylglycerol cholinephosphotransferase 1
LOC8065088	pentatricopeptide repeat-containing protein At3g53700, chloroplastic
LOC8074555	non-specific lipid-transfer protein 2
LOC8054095	nicotianamine aminotransferase A
LOC8085664	NHP2-like protein 1
LOC8072272	momilactone A synthase
LOC8082249	L-type lectin-domain containing receptor kinase IX.1
LOC8065807	lanC-like protein GCL2
LOC8068782	jasmonate O-methyltransferase
LOC8072250	histone H2B.1
LOC8055587	hepatoma-derived growth factor-related protein 2
LOC8061746	glycerol-3-phosphate 2-O-acyltransferase 6
LOC8058246	GDSL esterase/lipase At1g31550

LOC8073648	fructose-bisphosphate aldolase, chloroplastic
LOC8057276	F-box/FBD/LRR-repeat protein At4g00160
LOC8068715	F-box protein At1g67340
LOC8059007	eukaryotic translation initiation factor 3 subunit G
LOC8055639	ethylene-responsive transcription factor ERF104
LOC8073540	ethylene-responsive transcription factor ERF060
LOC8086050	ethylene-responsive transcription factor 4
LOC8085844	ethylene-responsive transcription factor 11
LOC8062991	ent-cassadiene C2-hydroxylase
LOC8079195	E3 ubiquitin-protein ligase EL5
LOC8055307	DNA oxidative demethylase ALKBH2
LOC8085890	DNA mismatch repair protein MSH3
LOC8074840	disease resistance protein RGA2
LOC8054599	cytochrome P450 71A1
LOC110431018	cysteine-rich receptor-like protein kinase 25
LOC8065187	chaperone protein dnaJ 13
LOC8077480	anthocyanidin 3-O-glucosyltransferase 2
LOC8069107	alpha-amylase/trypsin inhibitor
LOC8083795	40S ribosomal protein S12
LOC8084222	12-oxophytodienoate reductase 1
LOC8054161	uncharacterized tRNA/rRNA methyltransferase YsgA
LOC8062760	uncharacterized protein C227.17c
LOC8084286	uncharacterized LOC8084286
LOC8082719	uncharacterized LOC8082719
LOC8082387	uncharacterized LOC8082387
LOC8082080	uncharacterized LOC8082080
LOC8080202	uncharacterized LOC8080202
LOC8078752	uncharacterized LOC8078752
LOC8077983	uncharacterized LOC8077983
LOC8076350	uncharacterized LOC8076350
LOC8068344	uncharacterized LOC8068344
LOC8068280	uncharacterized LOC8068280
LOC8067380	uncharacterized LOC8067380
LOC8066496	uncharacterized LOC8066496
LOC8066486	uncharacterized LOC8066486
LOC8066157	uncharacterized LOC8066157
LOC8064453	uncharacterized LOC8064453
LOC8060343	uncharacterized LOC8060343
LOC8059214	uncharacterized LOC8059214
LOC8056461	uncharacterized LOC8056461
LOC8054980	uncharacterized LOC8054980

LOC8054110	uncharacterized LOC8054110
LOC110434949	uncharacterized LOC110434949
LOC110432337	uncharacterized LOC110432337
LOC110432325	uncharacterized LOC110432325
LOC110429606	uncharacterized LOC110429606
LOC110429564	uncharacterized LOC110429564

Supplementary Table S2. DEGs with non-synonymous SNPs in roots

Gene Symbol	Description
LOC8086258	uridine 5'-monophosphate synthase
LOC8076019	UDP-glycosyltransferase 88B1
LOC8075879	TIP41-like protein
LOC8074840	SPX domain-containing protein 1
LOC8073754	signal recognition particle 54 kDa protein, chloroplastic
LOC8073470	rust resistance kinase Lr10-like
LOC8072272	rust resistance kinase Lr10-like
LOC8072250	root phototropism protein 2
LOC8071656	RING-H2 finger protein ATL8
LOC8070125	ribosome maturation protein SBDS
LOC8069919	riboflavin biosynthesis protein PYRD, chloroplastic
LOC8069746	renalase
LOC8069719	regulatory protein viviparous-1-like
LOC8069064	receptor-like protein kinase 5
LOC8068782	receptor-like kinase LIP2
LOC8068519	putative septum site-determining protein minD homolog, chloroplastic
LOC8068518	putative multidrug resistance protein
LOC8067864	putative disease resistance RPP13-like protein 3
LOC8067647	protein NRT1/ PTR FAMILY 8.3
LOC8067380	protein NRT1/ PTR FAMILY 8.1-like
LOC8067323	protein HASTY 1
LOC8067165	probably inactive leucine-rich repeat receptor-like protein kinase At2g25790
LOC8066872	probable protein arginine N-methyltransferase 6.1
LOC8066766	probable LRR receptor-like serine/threonine-protein kinase At4g36180
LOC8066640	probable low-specificity L-threonine aldolase 2
LOC8066486	probable folate-bioperin transporter 7
LOC8066157	probable cinnamyl alcohol dehydrogenase 1
LOC8065801	probable 5'-adenylylsulfate reductase 1, chloroplastic
LOC8065309	proactivator polypeptide-like 1
LOC8065187	pentatricopeptide repeat-containing protein At5g41170, mitochondrial
LOC8065176	pentatricopeptide repeat-containing protein At3g29230
LOC8065052	pentatricopeptide repeat-containing protein At2g33760

LOC8064504	palmitoyl-acyl carrier protein thioesterase, chloroplastic
LOC8062760	ninja-family protein 5
LOC8060656	nicotianamine aminotransferase A
LOC8060560	momilactone A synthase
LOC8060343	magnesium protoporphyrin IX methyltransferase, chloroplastic
LOC8060105	LOB domain-containing protein 38
LOC8059010	jasmonate O-methyltransferase
LOC8059007	homocysteine S-methyltransferase 3
LOC8058550	homeobox-leucine zipper protein ROC5
LOC8057909	histone H2B.1
LOC8057624	G-type lectin S-receptor-like serine/threonine-protein kinase B120
LOC8057276	F-box/FBD/LRR-repeat protein At4g00160
LOC8056982	exosome complex component RRP4 homolog
LOC8056352	eukaryotic translation initiation factor 5B
LOC8056290	eukaryotic translation initiation factor 3 subunit G-B
LOC8056109	eukaryotic translation initiation factor 3 subunit G
LOC8055639	ethylene-responsive transcription factor ERF104
LOC8054848	epoxide hydrolase B
LOC8054095	E3 ubiquitin-protein ligase EL5
LOC110436673	disease resistance protein RGA2
LOC110436479	cytochrome P450 89A2
LOC110435489	cytochrome P450 704C1
LOC110434949	cytochrome c6, chloroplastic
LOC110434711	cyanidin 3-O-rutinoside 5-O-glucosyltransferase
LOC110433986	chaperone protein dnaJ 13
LOC110433985	CDK5RAP3-like protein
LOC110433833	CASP-like protein 1D1
LOC110432506	aquaporin TIP4-2
LOC110432337	alpha-glucan phosphorylase, H isozyme
LOC110432325	acyl-coenzyme A thioesterase 9, mitochondrial
LOC110431335	acyl carrier protein 4, chloroplastic
LOC110430236	AAA-ATPase At3g50940
LOC110429564	18.6 kDa class III heat shock protein
LOC8085912	uncharacterized protein C227.17c
LOC8085867	uncharacterized LOC8076331
LOC8085077	uncharacterized LOC8075879
LOC8084413	uncharacterized LOC8073754
LOC8083121	uncharacterized LOC8073470
LOC8082941	uncharacterized LOC8067380
LOC8082540	uncharacterized LOC8067323
LOC8082038	uncharacterized LOC8066486

LOC8081950	uncharacterized LOC8066157
LOC8080734	uncharacterized LOC8060343
LOC8080717	uncharacterized LOC8056982
LOC8079731	uncharacterized LOC8056290
LOC8079443	uncharacterized LOC110436479
LOC8079195	uncharacterized LOC110435489
LOC8079064	uncharacterized LOC110434949
LOC8078620	uncharacterized LOC110434711
LOC8078254	uncharacterized LOC110432337
LOC8077992	uncharacterized LOC110432325
LOC8077359	uncharacterized LOC110431335
LOC8077298	uncharacterized LOC110430236
LOC8076331	uncharacterized LOC110429564
