contig2	numOutSnps	p	orop	NumTempOut	NumPrecipOut	Annotation
comp60064_c0		46	0.613333333	46	1	NA
						protein_coding acclimation of photosynthesis to environment mutant has
comp1563_c0		19	0.76	16	2	Altered acclimation responses; Proteasome maturation factor UMP1 (TAIR:AT5G38650.1).
comp73926_c0		13	0.928571429	13	0	NA
comp1180_c0		3	0.1875	3	0	NA
						heavy metal atpase 5 The Arabidopsis P-type ATPase HMA5 is involved in Cu
						detoxification. hma5 mutant plants exhibit Cu hypersensitivity, which is
						especially dramatic in roots where HMA5 is mostly expressed. heavy metal atpase 5 (HMA5); FUNCTIONS IN: ATPase activity, coupled to transmembrane
						movement of ions, phosphorylative mechanism; INVOLVED IN: detoxification
						of copper ion, response to copper ion; LOCATED IN: integral to membrane,
comp21748_c0		2	0.0625	2	1	membrane;
						protein_coding Transducin/WD40 repeat-like superfamily protein Encodes a protein with similarity to yeast Pfs2p, an mRNA processing factor. Involved in
						regulation of flowering time; affects FCA mRNA processing. Homozygous
comp8237_c0		5	0.11627907	2	0	mutants are late flowering, null alleles are embryo lethal.
comp6762_c0		7	0.152173913	1	7	NA NA
comp19776_c1 comp29496 c0		2 4	0.037037037 0.2	1 1	2 2	NA protein coding Duplicated homeodomain-like superfamily protein \Putative
comp4611_c0		1	0.022727273	1	1	protein_coding nuclear factor Y, subunit A7 \nuclear
. –						protein_coding similar to RCD one 2 Encodes a protein with similarity to RCD1
						but without the WWE domain. The protein does have a PARP signature
						upstream of the C-terminal protein interaction domain. The PARP signature may bind NAD+ and attach the ADP-ribose-moiety from NAD+ to the target
						molecule. Its presence suggests a role for the protein in ADP ribosylation.
comp1011_c0		2	0.048780488	1	0	similar to RCD one 2 (SRO2);
						protein_coding plastid division1 An integral outer envelope membrane
						protein (as its homolog PDV2), component of the plastid division machinery. Similar to ARC5, PDV1 localized to a discontinuous ring at the division site in
						wild-type plants. PDV1 and PDV2 are required for localization of ARC5 at the
						chloroplast division site. Topological analysis showed that the large N-terminal
						region of PDV1 upstream of the transmembrane helix bearing a putative
						coiled-coil domain is exposed to the cytosol. Mutation of the conserved PDV1 C-terminal Gly residue did not block PDV1 insertion into the outer envelope
comp13145_c1		1	0.011764706	1	0	membrane but did abolish its localization to the division site.
. –						protein_coding peroxin 14 mutant has a defect in the intracellular transport of
						thiolase from the cytosol to glyoxysomes (formerly known as ped2) peroxin 14
comp1439 c0		2	0.034482759	1	0	(PEX14); FUNCTIONS IN: protein transporter activity, protein binding; INVOLVED IN: peroxisome organization, protein targeting to peroxisome;
comp15605_c0		2	0.043478261	1	0	NA
comp28687_c0		1	0.083333333	1	0	NA
						protein_coding Pentatricopeptide repeat (PPR-like) superfamily protein
						Pentatricopeptide repeat (PPR-like) superfamily protein; FUNCTIONS IN: molecular_function unknown; Pentatricopeptide repeat (PPR-like) superfamily
comp31135_c0		1	0.037037037	1	0	protein
						protein_coding Insulinase (Peptidase family M16) protein Insulinase
comp1565 c0		24	0.267716535	0	24	(Peptidase family M16) protein; FUNCTIONS IN: metalloendopeptidase
comp1303_co		34	0.207710333	U	24	activity, ATP binding; INVOLVED IN: proteolysis, response to salt stress; protein coding DNA-binding bromodomain-containing protein DNA-binding
						bromodomain-containing protein; CONTAINS InterPro DOMAIN/s:
comp2237_c0		11	0.25	0	9	Bromodomain (InterPro:IPR001487);
						protein_coding histone acetyltransferase of the GNAT family 2 Encodes an enzyme with histone acetyltransferase activity. Histone H4 is the primary
						substrate for the enzyme. Prior acetylation of lysine 12 of histone H4 reduces
						radioactive acetylation by HAG2. HAG2 acetylates histone H4 lysine 12.
						histone acetyltransferase of the GNAT family 2 (HAG2); FUNCTIONS IN:
						histone acetyltransferase activity, H4 histone acetyltransferase activity; INVOLVED IN: histone acetylation, chromatin modification, chromatin
comp9553_c0		9	0.132352941	0	8	silencing at telomere;
						protein_coding SWIB/MDM2 domain superfamily protein SWIB/MDM2
1001		4.2		6	_	domain superfamily protein; FUNCTIONS IN: molecular_function unknown;
comp1964_c0		12	0.3	0	7	INVOLVED IN: biological_process unknown; LOCATED IN: chloroplast; protein_coding Protein of unknown function (duplicated DUF1399) Protein of
comp4147_c0		8	0.114285714	0	7	unknown function (duplicated DUF1399);
comp6329_c0		8	0.44444444	0	7	NA
						protein_coding YUCCA 3 YUCCA 3 (YUC3); FUNCTIONS IN: NADP or NADPH
comp24588_c0		5	0.227272727	0	5	binding, oxidoreductase activity, FAD binding, flavin-containing monooxygenase activity; INVOLVED IN: auxin biosynthetic process;
,						

comp4835 c0	8	0.163265306	0	5	NA
comp64053_c0	5	0.138888889	0	5	NA NA
		0.200	-		
					protein_coding myo-inositol oxygenase 4 Encodes a myo-inositol oxygenase.
					myo-inositol oxygenase 4 (MIOX4); FUNCTIONS IN: inositol oxygenase activity;
comp1027_c0	4	0.111111111	0	4	INVOLVED IN: L-ascorbic acid biosynthetic process, syncytium formation;
comp25728_c1	5	0.238095238	0	4	NA
					protein_coding ATP binding microtubule motor family protein ATP binding microtubule motor family protein; FUNCTIONS IN: microtubule motor activity,
comp12654_c0	3	0.088235294	0	3	ATP binding;
comp26296_c0	3	0.230769231	0	3	NA
00p20230_00	3	0.230, 03231	Ü	J	protein_coding Zinc finger C-x8-C-x5-C-x3-H type family protein Encodes
					SOMNUS (SOM), a nucleus-localized CCCH-type zinc finger protein. SOM
					negatively regulates light-dependent seed germination downstream of PIL5
comp3285_c0	3	0.096774194	0	3	(AT2G20180). SOMNUS (SOM);
					protein_coding RNA-binding (RRM/RBD/RNP motifs) family protein RNA-
					binding (RRM/RBD/RNP motifs) family protein; FUNCTIONS IN: RNA binding,
comp6369 c0	2	0.3	0	3	nucleotide binding, nucleic acid binding; INVOLVED IN: biological_process
comp6268_c0	3	0.5	U	3	unknown; protein_coding K+ efflux antiporter 4 member of Putative potassium proton
					antiporter family K+ efflux antiporter 4 (KEA4); FUNCTIONS IN:
					potassium:hydrogen antiporter activity, potassium ion transmembrane
					transporter activity; INVOLVED IN: potassium ion transport, cation transport,
					transmembrane transport; LOCATED IN: endomembrane system, integral to
comp7067_c0	2	0.066666667	0	2	membrane;
comp8064_c0	2	0.074074074	0	2	protein_coding TIFY domain protein 8 TIFY domain protein 8 (TIFY8);
0706 -0	2	0.125	0	2	protein_coding Pentatricopeptide repeat (PPR) superfamily protein
comp9706_c0	3	0.125	0	2	Pentatricopeptide repeat (PPR) superfamily protein; protein coding ubiquitin-specific protease 23 Encodes a ubiquitin-specific
					protease. ubiquitin-specific protease 23 (UBP23); FUNCTIONS IN: ubiquitin-
					specific protease activity, ubiquitin thiolesterase activity; INVOLVED IN:
comp11553_c0	1	0.01	0	1	ubiquitin-dependent protein catabolic process; LOCATED IN: chloroplast;
					protein_coding Tubulin/FtsZ family protein Encodes one of two FtsZ proteins,
					tubulin-like proteins, in Arabidopsis. It is involved in chloroplast division. FTSZ2-
comp1506_c0	2	0.036363636	0	1	1; FUNCTIONS IN: protein binding, structural molecule activity; INVOLVED IN:
comp33268_c0	1	0.043478261	0	1	chloroplast fission; LOCATED IN: chloroplast stroma, chloroplast; NA
comp33200_c0	_	0.045470201	Ü	-	protein_coding sodium proton exchanger, putative (NHX7) (SOS1) Encodes a
					plasma membrane-localized Na+/H+ antiporter SOS1. Functions in the
					extrusion of toxic Na+ from cells and is essential for plant salt tolerance. Has
					12 predicted transmembrane domains in the N-terminal region and a long
					cytoplasmic tail of approx. 700 aa at the C-terminal side. SOS1 interacts
					through its predicted cytoplasmic tail with RCD1, a regulator of oxidative-
22046 -0	15	0.635	0	4	stress responses, suggesting that SOS1 might function in oxidative-stress
comp33846_c0	15	0.625	0	1	tolerance. protein_coding signal peptide peptidase Encodes a putative protease SppA
					(SppA). signal peptide peptidase (SPPA); FUNCTIONS IN: serine-type
comp3516_c0	1	0.027027027	0	1	endopeptidase activity; INVOLVED IN: proteolysis, response to light intensity;
comp51036_c0	1	0.027777778	0	1	NA
					protein_coding ARF-GAP domain 2 A member of ARF GAP domain (AGD), A
					thaliana has 15 members, grouped into four classes. AGD2 belongs to the class
					1, together with AGD1, AGD3, and AGD4. ARF-GAP domain 2 (AGD2);
comp720 c0	1	0 02222222	0	1	FUNCTIONS IN: ARF GTPase activator activity, zinc ion binding; INVOLVED IN: regulation of ARF GTPase activity;
comp730_c0 comp90150 c0	1 2	0.033333333 0.074074074	0 0	1 1	NA
comp93351_c0	2	0.046511628	0	1	NA NA
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