

## Supplementary Table S1

Statistically significant, commonly up-regulated ( $\geq 2$ -fold) expressed in both DH and ACE seeds treated with PEG.

AGI number	Fold change		Description (TAIR)	Biological process (Nick's classification)
	DH	ACE		
At1g50010	2.14	4.29	tubulin Alpha-6 Chain	cell organization and biogenesis
At4g28520	2.13	9.65	12S storage protein	embryonic development
At1g15110	3.77	2.07	phosphatidyl serine synthase family protein	lipid metabolism
At3g14990	6.16	10.53	putative 4-methyl-5(b-hydroxyethyl)-thiazole monophosphate biosynthesis protein	metabolism
At3g21720	4.17	3.78	isocitrate lyase	metabolism
At4g31500	2.78	10.07	cytochrome P450 monooxygenase	metabolism
At5g14060	2.1	2.95	aspartate kinase	metabolism
At5g38410	2.5	3.06	ribulose biphosphate carboxylase small chain 3b precursor	metabolism
At1g26880	2.19	3.52	putative 60s ribosomal protein L34	protein biosynthesis, cell organization and biogenesis
At3g11910	2.18	2.4	ubiquitin-specific protease, putative	protein metabolism, cell cycle
At4g16143	2.17	2.59	importin alpha-2	protein metabolism, cell organization and biogenesis
At4g22710	3.14	9.41	cytochrome P450 family protein	protein metabolism, electron transport
At3g03940	2.36	3.28	protein kinase family protein	protein modification
At4g31390	2.47	3.1	ABC1 family protein	protein modification
At3g47340	3.25	3.96	putative glutamine-dependent asparagine synthetase	response to abiotic and endogenous stimulus, development
At3g19820	2.11	3.14	cell elongation protein / DWARF1	response to abiotic stimulus, lipid metabolism
At1g78230	3.41	4.44	leucine-rich repeat family protein	response to biotic stimulus
At1g75800	2.06	2.1	pathogenesis-related thaumatin family protein	response to stress
At1g21100	2.26	9.25	O-methyltransferase	secondary metabolism
At3g60080	2.17	2.96	zinc finger (C3HC4-type RING finger) family protein	transcription
At1g12110	2.67	2.95	chlorate/nitrate transporter (CHL1)	transport
At3g16180	2.59	2.88	proton-dependent oligopeptide transport	transport
At3g60600	2.47	2.56	vesicle-associated membrane protein	transport
At1g13860	3.94	4.37	dehydration-responsive protein-related	unknown
At1g32790	2.47	2.27	RNA-binding protein	unknown
At2g21240	2.56	3.07	unknown protein	unknown
At3g16640	2.19	3.01	putative transcriptionally controlled tumor protein	unknown
At3g15120	3.07	3.65	AAA-type ATPase family protein	unknown