

Supplementary Table S4

Genes significantly down-regulated ≥ 2 -fold specifically in DH seed treated with PEG.

AGI number	Fold change	Description (TAIR)	Biological process (Nick's classification)
At5g13420	0.49	transaldolase, putative	carbohydrate metabolism, energy pathways
At1g09420	0.24	putative glucose-6-phosphate dehydrogenase	carbohydrate metabolism
At3g09260	0.28	thioglucoside glucohydrolase	carbohydrate metabolism
At1g12230	0.44	transaldolase, putative	carbohydrate metabolism, energy pathways
At5g53850	0.28	haloacid dehalogenase-like hydrolase family protein	carbohydrate metabolism, metabolism
At2g31900	0.28	myosin family protein	cell organization and biogenesis
At4g05320	0.36	polyubiquitin (ubq10) mRNA complete cds	development
At5g11520	0.43	putative aspartate aminotransferase ASP3	development, metabolism
At3g22310	0.35	DEAD box RNA helicase, putative (RH9)	DNA metabolism
At2g02960	0.49	zinc finger (C3HC4-type RING finger) family protein	electron transport
At1g21750	0.33	protein disulfide-isomerase 1 precursor	electron transport, protein metabolism
At1g04410	0.35	malate dehydrogenase	energy pathways
At5g52920	0.29	pyruvate kinase, putative	energy pathways
At3g61580	0.46	delta-8 sphingolipid desaturase	lipid metabolism
At4g25140	0.37	glycine-rich protein / oleosin	lipid metabolism
At5g40420	0.36	oleosin type2	lipid metabolism
At1g08250	0.27	prephenate dehydratase family protein	metabolism
At2g31360	0.22	delta 9 desaturase (ADS2)	metabolism
At3g06860	0.5	fatty acid multifunctional protein (MFP2)	metabolism
At3g23810	0.41	adenosylhomocysteinase, putative	metabolism
At4g39955	0.34	hydrolase, alpha/beta fold family protein	metabolism
At5g38410	0.29	ribose biphosphate carboxylase small chain 3B	metabolism
At3g59970	0.38	putative methylenetetrahydrofolate reductase	metabolism, transport
At3g44260	0.49	CCR4-NOT transcription complex protein	nucleic acid metabolism
At2g26990	0.3	COP9 signalosome complex subunit 2	post embryonic development
At5g15200	0.48	40S ribosomal protein S9	protein biosynthesis
At5g47880	0.31	eukaryotic peptide chain release factor subunit 1-1	protein biosynthesis
At5g65220	0.43	ribosomal protein L29 family protein	protein biosynthesis, cell organization and biogenesis
At1g19530	0.41	unknown protein	protein metabolism
At1g80920	0.5	DNAJ heat shock N-terminal domain-containing protein	protein metabolism
At2g37970	0.39	SOUL heme-binding family protein	protein metabolism
At4g05050	0.32	polyubiquitin	protein metabolism
At5g03240	0.5	polyubiquitin (UBQ3)	protein metabolism
At5g22030	0.4	ubiquitin-specific protease 8, putative	protein metabolism
At5g41700	0.29	putative E2, ubiquitin-conjugating enzyme UBC8	protein metabolism

At1g75950	0.39	E3 ubiquitin ligase SCF complex subunit SKP1/ASK1	protein metabolism, cell cycle,
At5g57360	0.41	LOV kelch protein 1 (LKP1)	protein metabolism, flower development, behavior
At1g79570	0.16	protein kinase family protein	protein modification
At3g09830	0.31	protein kinase, putative	protein modification
At3g47340	0.32	putative glutamine-dependent asparagine synthetase	response to abiotic and endogenous stimulus, development
At2g29500	0.47	17.6 kDa class I small heat shock protein	response to abiotic stimulus
At2g38380	0.36	peroxidase 22	response to stress
At1g54410	0.15	dehydrin family protein	response to stress and abiotic stimulus
At5g45050	0.42	disease resistance protein-related	response to stress, cell death
At1g07890	0.47	ascorbate peroxidases	response to stress, electron transport
At2g47390	0.3	unknown protein	signal transduction
At5g14750	0.25	myb family transcription factor (MYB66)	transcription, cell differentiation
At4g34000	0.47	ABA-responsive element-binding protein	transcription, response to stress, endogenous stimulus
At1g11260	0.41	glucose transporter (STP1)	transport
At1g12090	0.36	protease inhibitor/seed storage/lipid transfer protein	transport
At2g38530	0.39	non-specific lipid-transfer protein 2	transport
At2g38540	0.44	non-specific lipid transfer protein 1	transport
At3g51600	0.16	nonspecific lipid transfer protein 5	transport
At4g27150	0.29	2S seed storage protein 2 precursor	transport
At5g58070	0.26	lipocalin, putative	transport
At3g08580	0.32	mitochondrial ADP/ ATP carrier protein 1	transport, biological process
At2g44160	0.44	methylenetetrahydrofolate reductase 2	transport, metabolism
At3g04240	0.31	putative O-linked GlcNAc transferase	transport, protein modification
At2g34660	0.43	glutathione S-conjugate ABC transporter (MRP2)	transport, response to abiotic stimulus, protein metabolism
At3g22120	0.33	cell wall-plasma membrane linker protein homolog (CWLP)	transport, signal transduction, physiological process
At1g18100	0.44	mother of FT and TF1 protein (MFT)	unknown
At1g25500	0.37	choline transporter-related	unknown
At1g68580	0.45	unknown protein	unknown
At2g05510	0.45	glycine-rich protein	unknown
At2g07707	0.34	unknown protein	unknown
At2g24550	0.49	unknown protein	unknown
At2g30570	0.49	photosystem II reaction center W (PsbW) protein-related	unknown
At3g07560	0.4	glycine rich protein	unknown
At3g15450	0.39	unknown protein	unknown
At3g19760	0.46	eukaryotic translation initiation factor 4A, putative	unknown
At3g59940	0.47	unknown protein	unknown
At4g02680	0.34	tetratricopeptide repeat (TPR)-containing protein	unknown
At5g03180	0.39	zinc finger (C3HC4-type RING finger) family protein	unknown
At5g15650	0.44	reversibly glycosylated polypeptide-3	unknown
At5g22000	0.44	mRNA for putative RING-H2 finger protein RHF2a	unknown
At5g25260	0.5	unknown protein	unknown
At5g25460	0.35	unknown protein	unknown
At5g26360	0.46	chaperonin, putative	unknown

At1g65260	0.5	PspA/IM30 family protein	unknown
At3g41950	0.35	unknown protein	unknown
At3g61415	0.43	SKP1 family protein	unknown
NO_ORF_HIT	0.47	21737 Lambda-PRL1 Arabidopsis thaliana cDNA clone G4E6T7	unknown
NO_ORF_HIT	0.46	21991 Lambda-PRL1 Arabidopsis thaliana cDNA clone G9F9T7	unknown
NO_ORF_HIT	0.47	21864 Lambda-PRL1 Arabidopsis thaliana cDNA clone G7D9T7	unknown
NO_ORF_HIT	0.45	23047 CD4-16 Arabidopsis thaliana cDNA clone H3F11T7	unknown
NO_ORF_HIT	0.44	22553 Lambda-PRL2 Arabidopsis thaliana cDNA clone 248A15T7	unknown
NO_ORF_HIT	0.36	21160 CD4-14 Arabidopsis thaliana cDNA clone F3H6T7	unknown
NO_ORF_HIT	0.37	25005 CD4-13 Arabidopsis thaliana cDNA clone E8E1T7	unknown
NO_ORF_HIT	0.43	21164 CD4-14 Arabidopsis thaliana cDNA clone F4A3T7	unknown
NO_ORF_HIT	0.49	19368 Lambda-PRL2 Arabidopsis thaliana cDNA clone 219O19T7	unknown
NO_ORF_HIT	0.41	23164 CD4-16 Arabidopsis thaliana cDNA clone H5C4T7	unknown
NO_ORF_HIT	0.42	9607 Lambda-PRL2 Arabidopsis thaliana cDNA clone 141K11T7	unknown
NO_ORF_HIT	0.3	15310 Lambda-PRL2 Arabidopsis thaliana cDNA clone 185G4T7	unknown
NO_ORF_HIT	0.41	18423 Lambda-PRL2 At. cDNA clone 207I6T7	unknown
