

Appendix 2c Genes up-regulated following the freezing treatment.

This table contains the full set of genes that were responsive to the freezing treatment ($P < 0.05$) and that were up-regulated (\log_2 fold change in expression > -1).

Probe ID	Fold change (log2)	AGI Code	TAIR annotation
253643_at	3.5226	At4g29780	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT5G12010.1); similar to unnamed protein product [Vitis vinifera] (GB:CAO43835.1); contains domain PTHR22930 (PTHR22930)
266545_at	3.1542	At2g35290	similar to unnamed protein product [Vitis vinifera] (GB:CAO63442.1)
247925_at	3.0612	At5g57560	TCH4_XTH22__TCH4 (TOUCH 4); hydrolase, acting on glycosyl bonds / xyloglucan:xyloglucosyl transferase
260227_at	3.0470	At1g74450	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT1G18740.1); similar to unnamed protein product [Vitis vinifera] (GB:CAO43630.1); contains InterPro domain Protein of unknown function DUF793 (InterPro:IPR008511)
255064_at	2.8735	At4g08950	phosphate-responsive protein, putative (EXO)
261648_at	2.7731	At1g27730	STZ_ZAT10__STZ (SALT TOLERANCE ZINC FINGER); nucleic acid binding / transcription factor/ zinc ion binding
266834_s_at	2.6695	At2g05050 At2g30020 At3g27140 At4g08260	
261405_at	2.5616	At1g18740	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT1G74450.1); similar to unnamed protein product [Vitis vinifera] (GB:CAO43630.1); contains InterPro domain Protein of unknown function DUF793 (InterPro:IPR008511)
256633_at	2.4828	At3g28340	GATL10__GATL10 (Galacturonosyltransferase-like 10); polygalacturonate 4-alpha-galacturonosyltransferase/ transferase, transferring hexosyl groups
262307_at	2.3694	At1g71000	DNAJ heat shock N-terminal domain-containing protein
254120_at	2.3304	At4g24570	mitochondrial substrate carrier family protein
257654_at	2.2573	At3g13310	DNAJ heat shock N-terminal domain-containing protein
252474_at	2.1959	At3g46620	zinc finger (C3HC4-type RING finger) family protein
248389_at	2.0986	At5g51990	CBF4_DREB1D__CBF4/DREB1D (C- REPEAT-BINDING FACTOR 4); DNA binding / transcription activator/ transcription factor
253859_at	2.0907	At4g27657	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT4G27652.1)
253830_at	2.0727	At4g27652	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT4G27657.1)
265561_s_at	2.0214	At2g05440 At2g05510	glycine-rich protein
252679_at	1.9511	At3g44260	CCR4-NOT transcription complex protein, putative
261470_at	1.9067	At1g28370	ATERF11_ERF11__ATERF11/ERF11 (ERF domain protein 11); DNA binding / transcription factor/ transcription repressor
253915_at	1.8822	At4g27280	calcium-binding EF hand family protein
246011_at	1.8594	At5g08330	TCP family transcription factor, putative
247478_at	1.8330	At5g62360	invertase/pectin methylesterase inhibitor family protein
247177_at	1.7487	At5g65300	unknown protein
259788_at	1.7231	At1g29670	GDSL-motif lipase/hydrolase family protein
259990_s_at	1.6610	At1g68050 At5g23410 At5g42730	FKF1_ADO3__FKF1 (FLAVIN-BINDING KELCH DOMAIN F BOX PROTEIN); ubiquitin-protein ligase
264005_at	1.6282	At2g22470	AGP2__AGP2 (ARABINOGALACTAN-PROTEIN 2)
266037_at	1.6116	At2g05940	protein kinase, putative
251640_at	1.5780	At3g57450	similar to unnamed protein product [Vitis vinifera] (GB:CAO40798.1)
266832_at	1.5544	At2g30040	MAPKKK14__MAPKKK14 (Mitogen-activated protein kinase kinase kinase 14); kinase
266123_at	1.5429	At2g45180	protease inhibitor/seed storage/lipid transfer protein (LTP) family protein
267411_at	1.5050	At2g34930	disease resistance family protein
254667_at	1.4985	At4g18280	glycine-rich cell wall protein-related
248243_at	1.4816	At5g53590	auxin-responsive family protein

253104_at	1.4431	At4g36010	pathogenesis-related thaumatin family protein
250676_at	1.3873	At5g06320	NHL3__NHL3 (NDR1/HIN1-like 3)
252475_s_at	1.3436	At3g46640 At5g59570	LUX_PCL1__PCL1 (PHYTOCLOCK 1); DNA binding
245906_at	1.3298	At5g11070	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT5G35090.1)
248146_at	1.3067	At5g54940	eukaryotic translation initiation factor SU11, putative
253323_at	1.3016	At4g33920	protein phosphatase 2C family protein / PP2C family protein
248964_at	1.2731	At5g45340	CYP707A3__CYP707A3 (cytochrome P450, family 707, subfamily A, polypeptide 3); oxygen binding
255926_at	1.2709	At1g22190	AP2 domain-containing transcription factor, putative
253891_at	1.2681	At4g27720	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT1G64650.2); similar to unknown protein [Arabidopsis thaliana] (TAIR:AT1G64650.1); similar to unknown protein [Arabidopsis thaliana] (TAIR:AT3G49310.1); similar to unknown [Populus trichocarpa] (GB:ABK93582.1); similar to unnamed protein product [Vitis vinifera] (GB:CAO48607.1); similar to unnamed protein product [Vitis vinifera] (GB:CAO62932.1); contains InterPro domain Protein of unknown function DUF791 (InterPro:IPR008509); contains InterPro domain MFS general substrate transporter (InterPro:IPR016196)
252377_at	1.2627	At3g47960	proton-dependent oligopeptide transport (POT) family protein
264617_at	1.2441	At2g17660	nitrate-responsive NOI protein, putative
256093_at	1.2290	At1g20823	zinc finger (C3HC4-type RING finger) family protein
246289_at	1.2229	At3g56880	VQ motif-containing protein
257053_at	1.1584	At3g15210	ATERF4_ATERF-4_ERF4_RAP2.5__ATERF-4/ATERF4/ERF4/RAP2.5 (ETHYLENE RESPONSIVE ELEMENT BINDING FACTOR 4); DNA binding / protein binding / transcription factor/ transcription repressor
251861_at	1.1571	At3g54810	BME3__BME3/BME3-ZF (BLUE MICROPYLAR END3); transcription factor
247280_at	1.1494	At5g64260	phosphate-responsive protein, putative
258003_at	1.1370	At3g29030	ATEXPA5_ATEXP5_ATHEXP ALPHA 1.4__ATEXPA5 (ARABIDOPSIS THALIANA EXPANSIN A5)
263662_at	1.1241	At1g04430	dehydration-responsive protein-related
247393_at	1.0953	At5g63130	octicosapeptide/Phox/Bem1p (PB1) domain-containing protein
263799_at	1.0951	At2g24550	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT4G31510.1); similar to unknown [Populus trichocarpa x Populus deltoides] (GB:ABK96563.1)
249910_at	1.0914	At5g22630	ADT5__ADT5 (AROGENATE DEHYDRATASE 5); arogenate dehydratase/ prephenate dehydratase
264000_at	1.0903	At2g22500	mitochondrial substrate carrier family protein
261318_at	1.0876	At1g53035	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT3G15358.1); similar to unnamed protein product [Vitis vinifera] (GB:CAO69750.1)
250098_at	1.0841	At5g17350	similar to unknown protein [Arabidopsis thaliana] (TAIR:AT3G03280.1); similar to unknown [Populus trichocarpa] (GB:ABK95625.1)
262727_at	1.0669	At1g75800	pathogenesis-related thaumatin family protein
261285_at	1.0648	At1g35720	ANNAT1_ATOXY5_OXY5__ANNAT1 (ANNEXIN ARABIDOPSIS 1); calcium ion binding / calcium-dependent phospholipid binding
258750_at	1.0617	At3g05910	pectinacetylerase, putative
253286_at	1.0555	At4g34260	catalytic
248596_at	1.0410	At5g49330	AtMYB111__AtMYB111 (myb domain protein 111); DNA binding / transcription
253140_at	1.0384	At4g35480	RHA3B__RHA3B (RING-H2 finger A3B); protein binding / zinc ion binding
247655_at	1.0351	At5g59820	RHL41_ZAT12__RHL41 (RESPONSIVE TO HIGH LIGHT 41); nucleic acid binding / transcription factor/ zinc ion binding
253925_at	1.0207	At4g26690	MRH5_SHV3__MRH5/SHV3 (morphogenesis of root hair 5); glycerophosphodiester phosphodiesterase/ kinase