TABLE S1

Array 1 Oligonucleotide Sequences

	Name	Genbank Accession Number	Locus	Sequence
1	Actin 2	At3g18780	At3g18780	GCTGAGGGAAGCAAGAATGGAACCACCGA TCCAGACACTGTACTTCCTTTCAGGTGGTG CGCTTGTCTAAGTCTG
2	GST	U41998	At2g29450	CCAGTATCTCTTCCACGTACTCGTACGGTA TGCCTTTGAGTTTGAGAGCCATCTCGACCC GCTTGTCTAAGTCTG
3	PAL1	X62747	At2g37040	GTTGATTCGTACAAGCATGGCGGCTCTTGT GGCGGAGTGTGGCAATGTGTGGCTTGTTTC GCTTGTCTAAGTCTG
4	S-19	AF37027	At3g02080	GTTGAGCTCGACACCAAAGGAGGAAGAAG GATCACTTCCAGTGGCCAAAGGGATTTGGA CGCTTGTCTAAGTCTG
5	COR47	AB004872	At1g20440	GTGACAGCTGGTGAATCCTCTGCTTTCTCG TCGTGGTGACCAGGAAGCTTCTCCTTGATC GCTTGTCTAAGTCTG
6	β-Tubulin 8	M84705	At5g23860	GTTGAGCTCGACACCAAAGGAGGAAGAAG GATCACTTCCAGTGGCCAAAGGGATTTGGA CGCTTGTCTAAGTCTG
7	CHS	M20308	At5g13930	CCACACCATCCTTAGCTGACTTCCTCCTCA TCTCGTCTAGTATGAAGAGAACGCACGCGC GCTTGTCTAAGTCTG
8	ERD14	D17715	At1g76180	CTCTGGCTCCGGCTCTGAAATATGAACCTT CTGCTCAAACTCTGAAGCGATCGGAGTCTC GCTTGTCTAAGTCTG
9	RAB18	U75603	At1g43890	CTCAACGTTGACTCGAGTCTTTGCACTACA CTCCAGAAACAAACATCCGTACTCCCGAGC GCTTGTCTAAGTCTG
10	β-Thromboglobulin	M17017	(human)	CTGCAGAAATCAGGAAGGCTGCCAAGAGA GCCACGGCCAGCTTGGAAGTCATGTTTACA CGCTTGTCTAAGTCTG
11	KIN1	NM_121601	At5g15960	CATTGCTCTTCTCCTCAGCTTTGCCAGCGGT CTGACCGGCTTGGAAGGCATTCTTGTTGGG CTTGTCTAAGTCTG
12	KIN2	X62281	At5g15970	GCCGGTCTTGTCCTTCACGAAGTTAACACC TCCCACTGCCGCATCCGATATACTCTTTCC GCTTGTCTAAGTCTG
13	RD29B	D13044	At5g52300	CCTCTGTTGCTGAAAGCAGAGACACAGGA GTGTTCAATGGCTCTTGATGAGCCTCTCTG CGCTTGTCTAAGTCTG
14	Histone 1.3	U73781	At2g18050	CACACAGTTCCATCTTCTTCTCCTCCTCCTC AGTGATCAAGCAGCGGAAGCTTTCATGGC GCTTGTCTAAGTCTG
15	Histone 1.1	D13044	At1g06760	GCCGATGGGAGTTTAAACGAGGCTTTGACC TTCACAAGCTTCCCAGAAGCAACGAGTCTC GCTTGTCTAAGTCTG
16	RD29A	AF198054	At5g52310	CATCACCACTTGGAGCAAACGTACTCGTTA CATCCTCTGTTCCAGAAAGCAGAGAGACC GGCTTGTCTAAGTCTG

TABLE S2

Array 2 Oligonucleotide Sequences

	Name	Genbank Accession Number	Locus	Sequence
1	EF1α	AF360167	At5g60390	GCTTGTCTAAGTCTGGTGGGTACTCGGAGAAAG TCTCAACAACCATGGGCTTGGTTGGGGTCATC
2	Actin 2	U41998	At3g18780	GCTTGTCTAAGTCTGGCTGGAATGTGCTGAGGG AAGCAAGAATGGAACCACCGATCCAGACACTG
3	FT	AB027505	At1g65480	GCTTGTCTAAGTCTGGGAGATATTCTCGGAGGT GAGGGTTGCTAGGACTTGGAACATCTGGATCC
4	LFY	M91208	At5g61850	GCTTGTCTAAGTCTGCACTTCCCCAGGCTCCGTT ACGATAAACGGATGCTCCCTCTGTCTCTCTG
5	EMF1	AF319968	At5g11530	GCTTGTCTAAGTCTGGGTAAGGAGCGTCGGCAC ATACGAAGGGGAGACATTGGAGCGTGTTGTTC
6	SHP1	M55550	At3g58780	GCTTGTCTAAGTCTGCGTACTCATAGAGACGGC CACGAGTGGAGAAGATGACGAGGGCAACTTCG
7	SHP2	M55553	At2g42830	GCTTGTCTAAGTCTGCTTCGGTGATGGTCGGAG GGTTAACGGCGTCGGAGCAAGCTTTCTTGTAC
8	AGL15	U22528	At5g13790	GCTTGTCTAAGTCTGCTGCAGTTTCGCTGCTCGT GTTTGTTGTCACTGAATCGCTTGACGGGCTC
9	ANT	U41339	At4g37750	GCTTGTCTAAGTCTGCCTCTTCTTCTTCGCAGCC GCCATTGTCGTCGTCTCAAACCCAACGCTTG
10	CYP78A9	AB036059	At3g61880	GCTTGTCTAAGTCTGCACACGAGAGCCTCAGTT TCTCGGACAAGTCAACGGTCTTCTCATCGGAC
11	DWF4	AF044216	At3g50660	GCTTGTCTAAGTCTGCACATAGCCTTGGCCCTC CTCCAAACGGCATGTAGTTGTTTCCCCACGTC
12	PAP1	AF325123	At1g56650	GCTTGTCTAAGTCTGGGTGGGGCATTGAGATGG TTGCAGTCGTTGTTAACTGTGAAGGATCGAGG
13	ATHB-8	Z50851	At4g32880	GCTTGTCTAAGTCTGCCTCTGCTTCCACATGAAT CTCCGGCTGTTCTGCTCCCTACGTCTAGAGC
14	KNAT1	U14174	At4g08150	GCTTGTCTAAGTCTGGATCTTCGGCCCTCGGGT CTATTTCCGGTAATTCTGTTTCCCCTCCGCTG
15	CDC2b	D10851	At3g54180	GCTTGTCTAAGTCTGCCTCCGAACCATCTCAGC AAAGATACAACCAACAGACCACATGTCAACAC
16	NAC1	AF198054	At1g56010	GCTTGTCTAAGTCTGGGGAGGATGATGAGATCC TTGGAGACGGAATTCGTGCATGACCCAATCGG
17	NPR1	U76707	At1g64280	GCTTGTCTAAGTCTGGTCGTTTCTCAGCAGTGTC GTCTTCTCCGCAAGCCAGTTGAGTCAAGTCC
18	PDF1.2	A68653	At5g44420	GCTTGTCTAAGTCTGCAAACCCCTGACCATGTC CCACTTGGCTTCTCGCACAACTTCTGTGCTTC
19	PAD4	AF188329	At3g52430	GCTTGTCTAAGTCTGGTATCTTGCGTTGTGCTCG CGTATCTGCTTCTCACACACTCCTCAGGCAC
20	EDS1	AF128407	At3g48090	GCTTGTCTAAGTCTGGAGGCAAAGTTTCCTCTA CAGACGCCTTTCGAGCAAGCGTAATCCGAGGG
21	RD29A	D13044	At5g52310	GCTTGTCTAAGTCTGTGGAGCAAACGTACTCGT TACATCCTCTGTTCCAGAAAGCAGAGAGACCG
22	KIN1	X51474	At5g15960	GCTTGTCTAAGTCTGGTAGTACCTCAGCTTTGCC AGCGGTCTGACCGGCTTGGAAGGCATTCTTG
23	ANP1	AB000796	At1g09000	GCTTGTCTAAGTCTGCTTTAGTAGCTCAGATGC GGTTGGCCGCAGATTTGGTACCTCCTGCAGAC

24	SOS1	AF256224	At2g01980	GCTTGTCTAAGTCTGCTTTCAACTGTAGGCCAG TCAGCAGGTCCTAGCTCCTCATCGTCTCCTAG
25	AtMPK3	D21839	At3g45640	GCTTGTCTAAGTCTGGGCTCATCATTCGGGTCG TGCAATTTAGCAAGGTACTGGTGATTCAGAGC
26	AtMPK6	D21842	At2g43790	GCTTGTCTAAGTCTGCTCCATGAGCAAGCGAAG CTGATGGACATGATCTCGTCCAGGGAAGAGTG
27	DREB1A	AB013815	At4g25480	GCTTGTCTAAGTCTGCTGTTCCGCCGTGTAAAT AGCCTCCACCAACGTCTCCTCCATGTCGAAGC
28	CBF1	U77378	At4g25490	GCTTGTCTAAGTCTGGGTTTCTTCGGACAACTC GTGGCCAACGTCGGACAATAATCTCCGCCTTG
29	Actin 8	U42007	At1g49240	GCTTGTCTAAGTCTGGGACTTCTGGGCACCTGA ATCTCTCAGCACCGATCGTGATCACTTGTCCG
30	α tubulin	M17189	At5g19770	GCTTGTCTAAGTCTGCAGGCCATGTACTTTCCGT GTCTCGGGTCACACTTTGCCATCATGCTAGC
31	β tubulin	M20405	At1g75780	GCTTGTCTAAGTCTGCTCCGGGACTGTGAGAGA GATGTACTGTTGAGAGCCACGGGAAGTGAGAG

TABLE S3

Gene Function Array 1

	Name	Genbank Accession Number	Locus	Function
1	Actin 2	At3g18780	At3g18780	Actin 2. Ubiquitously expressed; used as normalization control.
2	GST	U41998	At2g29450	Glutathione-S-Transferase. Glutathione metabolism.
3	PAL1	X62747	At2g37040	Phenylalanine Ammonia-Lyase 1. Defense response, response to oxidative stress
4	S-19	AF37027	At3g02080	40S Ribosomal Protein S19. Constituent of ribosome. Used as normalization control.
5	COR47	AB004872	At1g20440	Cold Regulated gene 47. Belongs to the dehydrin protein family. Response to stress and abscisic acid.
6	β-Tubulin 8	M84705	At5g23860	β-Tubulin 8. Structural constituent of cytoskeleton. Used as normalization control.
7	CHS	M20308	At5g13930	Chalcone Synthase. Response to oxidative stress.
8	ERD14	D17715	At1g76180	Early Response to Dehydration 14. Response to cold, response to desiccation, response to abscisic acid stimulus, response to gibberellin stimulus.
9	RAB18	U75603	At1g43890	Ras-related small GTPase 18. Regulation of transcription.
10	β-Thromboglobulin	M17017	(human)	β-Thromboglobulin. Used as negative control. Should never show a signal.
11	KIN1	NM_121601	At5g15960	Cold and ABA inducible protein KIN1. Stress induced.
12	KIN2	X62281	At5g15970	Cold and ABA inducible protein KIN2. Stress induced.
13	RD29B	D13044	At5g52300	Responsive to Desiccation 29B. Response to water deprivation, response to salt stress, response to abscisic acid stimulus, dry seed stage
14	Histone 1.3	U73781	At2g18050	Histone Protein 1.3. DNA binding, nucleosome assembly, nucleosome.
15	Histone 1.1	D13044	At1g06760	Histone Protein 1.1. DNA binding, nucleosome assembly
16	RD29A	AF198054	At5g52310	Response to cold stress and salt stress.

TABLE S4

Gene Function Array 2

	Name	Genbank Accession Number	Locus	Function
1	EF1α	AF360167	At5g60390	Translation elongation factor chain A4. Ubiquitously expressed; used as normalization control
2	Actin 2	U41998	At3g18780	Actin 2 gene. Ubiquitously expressed; used as normalization control
3	FT	AB027505	At1g65480	FLOWERING LOCUS T. Promotes flowering
4	LFY	M91208	At5g61850	LEAFY. Promotes transition to flowering
5	EMF1	AF319968	At5g11530	EMBRYONIC FLOWER 1. Represses development of flowering
6	SHP1	M55550	At3g58780	SHATTERPROOF 1. Required for fruit dehiscence
7	SHP2	M55553	At2g42830	SHATTERPROOF 2. Involved in valve margin and dehiscence zone differentiation
8	AGL15	U22528	At5g13790	AGAMOUS-Like 15. Embryogenesis and post-germinative development
9	ANT	U41339	At4g37750	AINTEGUMENTA. Floral organ development
10	CYP78A9	AB036059	At3g61880	Cytochrome P450 monooxygenase (CYP78A9). Involved in fruit development
11	DWF4	AF044216	At3g50660	DWARF 4. Cytochrome P450 monooxygenase (CYP90B1). A 22α-hydroxylase, rate-limiting in brassinosteroid biosynthesis; organ size
12	PAP1	AF325123	At1g56650	Production of Anthocyanin Pigment 1. Anthocyanin metabolism and radical scavenging
13	ATHB-8	Z50851	At4g32880	Vascular differentiation
14	KNAT1	U14174	At4g08150	Knotted-Like Arabidopsis Thaliana 1. Shoot and style development
15	CDC2b	D10851	At3g54180	Cyclin-dependent kinase B1. Cell cycle control
16	NAC1	AF198054	At1g56010	NAC-domain containing 1. Auxin-inducible, root growth
17	NPR1	U76707	At1g64280	Non-Expresser of PR genes 1. Disease resistance
18	PDF1.2	A68653	At5g44420	Plant Defensin 1.2. Disease resistance
19	PAD4	AF188329	At3g52430	Phytoalexin-Deficient 4. Disease resistance
20	EDS1	AF128407	At3g48090	Enhanced Disease Susceptibility 1. Disease resistance
21	RD29A	D13044	At5g52310	Responsive to Desiccation 29A. Response to cold stress
22	KIN1	X51474	At5g15960	Cold and ABA inducible protein KIN1. Stress induced.
23	ANP1	AB000796	At1g09000	NPK1-related protein kinase 1S. Response to stress
24	SOS1	AF256224	At2g01980	Salt-Overly Sensitive 1. Plasma membrane-localized Na+/H+ antiporter; functions in extrusion of Na+ from the cytoplasm
25	AtMPK3	D21839	At3g45640	Mitogen-Activated Protein Kinase 3. Involved in stress responses
26	AtMPK6	D21842	At2g43790	Mitogen-Activated Protein Kinase 6. Involved in stress responses
27	DREB1A	AB013815	At4g25480	Dehydration Response Element B1A. Response to

				low temperature
28	CBF1	U77378	At4g25490	Cold Binding Factor 1. Response to low temperature
29	Actin 8	U42007	At1g49240	Actin 8. Generally expressed; used as normalization control
30	α tubulin	M17189	At5g19770	Tubulin α 3. Generally expressed; used as normalization control
31	β tubulin	M20405	At1g75780	Tubulin β 1. Generally expressed; used as normalization control