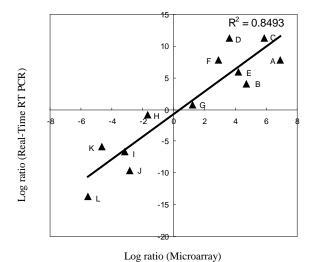
Differentially Expressed Genes between Drought Tolerant and Sensitive Barley Genotypes in Response to Drought Stress during the Reproductive Stage.

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Supplementary Table S3 Oligonucleotide Sequences Used for Real Time RT-PCR in this Study.

Primers were designed by using Primer ExpressTM 1.5 software (Applied Bioysytems, Foster, CA) as the manual instruction. The primer combinations which unambiguously amplified only one desired band in an agarose gel were selected as candidates for real time RT-PCR analysis. The dissociation curve analysis was carried out for each primer pair. The primer combination was used for real-time RT-PCR analysis only when its amplification product had one melting temperature.

Probe set	Annotation	Primer sequence (5'→3')
Contig10522_at	gamma-aminobutyric acid (GABA-A) receptor	CTACGGCGAAGGTCATGGATAT
		TGAAGCTCGAGACAACCATACTTTA
Contig11696_at	putative peptide chain release factor subunit 1	GAGAACAAGGAGGTGGAGAGAAGA
		TTCCAACTCCACATTAAGCTTCAA
Contig1394_s_at	actin	TCTGTTGACTGTATTGCCGGATTA
		TTCAGCACCGATCAAATATAGCA
Contig16113_at	putative protein	TAGGATAGAAGAAGGTGTCGGAAAAT
		AAAACTCTACCTGCAGCAGCTACA
Contig1713_s_at	dehydrin; DHN4	CACCGTTGCAGAATCAATAATAAGA
Contig19029_at	bacterial-induced peroxidase precursor	CATTCGCCCCTCCAACAG
		GAGATCAGGAAAAACTGCCATGTC
		GCACGCCCTGGGTATCG
Contig24415_at	<none></none>	ATTTTTGCTCTCGGTCCCATT
		GCAATAGGGAGCGTATAACACAAG
Contig26204_at	kaurene synthase	GTGGCAAGAATTGCTACGGAATAT
Contig3814_at	delta l pyrroline-5-carboxylate synthetase	TGTCACAACCGCATTTTCTATGTA
		TTCTAACCACTCGGTGCATTCTAC
		CTACCCTCATTGCAAAGGAAGATC
Contig422_at	chlorophyll a/b-binding protein WCAB	CTGAGTTGAGAGCTGGCAGGAT
	precursor	GAGAGTGAATGTTGGCAAATCAAA
Contig6539_s_at	Beta-fructofuranosidase	GGGAAGATCTCCTTGAGAAGCTT
		GCCATGGACGGGTACACTCT
Contig7359_at	cell death suppressor protein	GTGTGGAGACATCACACGAGATC
HVSMEi0006K11r2_s_at	NADP dependent malic enzyme	AGTATAAACATGCTGGGACAATCTCA
		GCTCGGTTGAACATAGTGTAATTTTG
-		GTCGGTCTGCCATTGCAAT



Supplementary Figure S1 Confirmation of Microarray Data by Real-Time RT-PCR. Correlation analysis of selected data between microarray and real-time RT-PCR experiments. The fold changes in gene expression in response to drought stress were log₂ transformed. The microarray data log₂-values (X-axis) were plotted against the real-time RT-PCR log₂ values (Y-axis). Letter A to L in the figure represent the contig name of Contig3814_at, Contig11696_at, Contig1713_s_at, Contig10522_at, Contig24415_at, HVSMEi0006K11r2_s_at, Contig7359_at, Contig6539_s_at, Contig26204_at, Contig16113_at, Contig19029_at, Contig422_at, respectively, in Affymetrix barley 1 GeneChip.