

**Genes ecologically important found in the *Spartina* reference transcriptome**

Biological function	Gene annotation	Number of regions in the Sorghum genome	Contig
Salt Stress response	aminotransferase y4ub	1 region	contig05155 (203bp)
	ascorbate peroxidase	2 regions	contig03891 (213bp)
	glutamine synthetase	3 regions	contig00436 (576bp)
	glutathione peroxidase	6 regions	contig02833 (717bp)
	glycine-rich rna-binding protein 2	1 region	contig08503 (816bp)
	heat shock cognate 70 kda protein 2	6 regions	contig08692 (419bp)
	heat shock protein 90	2/3 regions	contig00999 (110bp)
	snf1-related protein kinase	2 regions	contig00588 (316bp)
	thioredoxin peroxidase	2 regions	contig10727 (120bp)
	xanthine dehydrogenase	1 region	contig01057 (652bp)
	zeaxanthin epoxidase	1 region	contig11210 (345bp)
	histone acetyltransferase	1/2 regions	contig09039 (681bp)
	histone acetyltransferase complex component	1 region	contig03573 (1012bp)
	c2-h2 zinc finger protein	2 regions	contig06019 (1241bp)
	wrky dna binding domain containing expressed	1 region	contig13023 (359bp)
	af193802_1zinc finger transcription factor wrky1	1 region	contig09657 (359bp)
	wrky dna-binding protein 3	3 regions	contig04256 (1147bp)
Heavy metal Stress response	citrate synthase	1 region	contig01822 (1260bp)
	cytochrome p450	2/3 regions	contig00832 (804bp)
	glycine hydroxymethyltransferase	1 region	contig06823 (659bp)
	heat shock 70 kda protein	2 regions	contig01702 (560bp)
	metal tolerance protein a2	1 region	contig01235 (536bp)
	metal tolerance protein	1 region	contig01973 (780bp)
Lignin & Cellulose metabolism	cellulose synthase	3 regions	contig00754 (122bp)
	cinnamoyl- reductase	1 region	contig10883 (333bp)
	glycosyltransferase 48 kdasubunit precursor	1 region	contig00709 (1274bp)
	gdp-mannose pyrophosphorylase	3 regions	contig06944 (446bp)