

Table 6 Functional analysis of high expression genes

Group	Gene ID		GO annotation	KEGG pathway	NR database
A	c169663	7.91	Monooxygenase activity	Unknown	Sorghum bicolor
	c168932	5.18	Unknown	Unknown	Unknown
	c179427	5.07	Unknown	Unknown	Hypothetical protein PAHAL
	c165757	5.02	Serine-type endopeptidase inhibitor activity	Unknown	Trypsin inhibitor
B	c180938	4.70	Hydrolase activity	IAA-amino acid hydrolase	Uncharacterized protein
	c168487	7.20	Unknown	Unknown	Unknown
	c155181	7.09	Unknown	Unknown	ERBB-3 BINDING PROTEIN
	c173306	6.67	Binding	Meiotic recombination	Sorghum uncharacterized protein
	c175732	6.64	Unknown	Unknown	Hypothetical protein
C	c168831	6.57	Kinase activity	Unknown	Aegilops uncharacterized protein
	c171132	4.47	Unknown	Unknown	Setaria italica hypothetical protein
	c150544	4.45	Phenylpropanoid biosynthetic process	Unknown	Sorghum bicolor dirigent protein
	c164549	4.12	Amino acid transmembrane transport	Solute carrier family	Sorghum bicolor amino acid transporter
	c163749	3.92	Unknown	Homeobox-leucine zipper protein	Homeobox-leucine zipper protein
	c163233	3.88	Plastid	Unknown	Sorghum bicolor chaperone protein
	D	c173306	8.75	Binding	Meiotic recombination
c155181		8.62	Unknown	Unknown	ERBB-3 Binding Protein
c158922		8.03	Arginine catabolic process	Arginine decarboxylase	Arginine decarboxylase
c97530		7.84	ADP binding	Unknown	Panicum hypothetical protein
c134319		7.61	Unknown	Unknown	Unknown