

**IDENTIFICATION OF SENSE AND ANTISENSE TRANSCRIPTS REGULATED BY DROUGHT IN SUGARCANE Plant Molecular Biology**

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**Electronic Supplementary Table 5 – qPCR validation of differentially expressed sense and antisense transcripts.**

SAS	Functional Category	Structural Category	Gene Name	Oligo info	qPCR primers efficiency	24h drought		72h drought		120h drought		24h control		72h control		120h control	
						drought	drought	drought	drought	drought	drought	drought	drought	drought	drought	drought	drought
SCBGST3105A06.g	Carbohydrate metabolism	kinase/phosphatase	Fructose-1,6-bisphosphatase I	GS1_SS_18508_15468 GS1_AS_18508_15469	96,5			up (4.670,2.360)	down (-3.240,-5.140) down (-2.730,-3.120)								
SCJFLR1017E09.g	Carbohydrate metabolism	synthase	Alpha galactosidase 1	GS1_SS_08724_06083 GS1_AS_08724_06084	102,2			up (4.230,3.910)	up (3.960,4.490)								
SCJFRZ2014D06.g	DNA metabolism	transcription factor	ATAF1 Protein	GS1_SS_12278_15377 GS1_AS_12278_15378	95,3			up (3.750,3.020)	up (5.120,3.640)								
SCCCLR1075B06.g	Light Harvesting	others	Photosystem II 10kDa polypeptide	GS1_SS_10234_14797 GS1_AS_10234_14796	93,1			up (8.230,5.400)	up (3.150,3.750)								
SCOGLR1085G01.g	Light Harvesting	photosystem I subunit	Photosystem I reaction center subunit V	GS1_SS_25636_20097 GS1_AS_25636_20096	93,1				down (-5.240,-6.890) down (-4.240,-3.990)								
SCACLR1057H07.g	Porphyrin and chlorophyll metabolism	others	Magnesium chelatase subunit Chl	GS1_SS_04477_20876 GS1_AS_04477_20877	96,1			down (-3.920,-7.360)	down (-7.620,-8.400)								
SCJLRT1016G06.g	RNA metabolism	hydrolase	Ribonuclease	GS1_SS_12487_19039 GS1_AS_12487_19040	98,4			up (5.650,3.540)	up (2.990,3.220)								
SCBFLR1026B07.g	RNA metabolism	RNA binding protein	Nucleolar protein Nop56	GS1_SS_24393_15654 GS1_AS_24393_15653	110,7			down (-2.670,-4.480) down (-2.830,-3.450)	down (-2.670,-4.480)								

The Table indicates gene expression level in Oligoarray and qPCR experiments. In the Oligoarray column are indicated log ratios from the two biological replicates and in the qPCR columns are indicated the level of expression using control sample as reference and +error and -error values.