

Bulk RNA-seq datasets analysis integration identifies robust drought-responsive genes and functional networks in *Eucalyptus grandis*

João Vitor Aires Teixeira, Gabriel Quintanilha-Peixoto, Nivea Maria Pereira Lima, Renato Almeida Sarmiento, Kellen Kauanne Pimenta de Oliveira

Correspondence should be addressed to kauanne@mail.uft.edu.br (Kellen Kauanne Pimenta de Oliveira)

Supplementary Table 2: Protein symbols corresponding to nodes in the PPI network.

Symbol	Protein name (StringDB)	meta.logFC.weighted	Direction
UNK	Uncharacterized protein.	-4,196315001	DOWN
BETV1	Bet_v_1 domain-containing protein; Belongs to the BetVI family.	-3,661895249	DOWN
CYP	Uncharacterized protein; Belongs to the cytochrome P450 family.	-3,457904357	DOWN
GH32	Uncharacterized protein; Belongs to the glycosyl hydrolase 32 family.	-3,197343445	DOWN
UNK	Uncharacterized protein.	-3,193055154	DOWN
GAT-1	Glutamine amidotransferase type-1 domain-containing protein.	-3,051993042	DOWN
Fe2OGD	Fe2OG dioxygenase domain-containing protein; Belongs to the iron/ascorbate-dependent oxidoreductase family.	-3,033262031	DOWN
PIN	Auxin-responsive protein; Aux/IAA proteins are short-lived transcriptional factors that function as repressors of early auxin response genes at low auxin concentrations.	-2,691848495	DOWN
PMEI	PMEI domain-containing protein.	-2,286438945	DOWN
UNK	Uncharacterized protein.	-2,147283547	DOWN
CXC	CXC domain-containing protein.	-2,129376623	DOWN
SUS	Sucrose synthase; Sucrose-cleaving enzyme that provides UDP-glucose and fructose for various metabolic pathways. Belongs to the glycosyltransferase 1 family. Plant sucrose synthase subfamily.	-1,952149439	DOWN
PMR5N	PMR5N domain-containing protein.	-1,892126542	DOWN

RPA	Replication protein A subunit; Component of the replication protein A complex (RPA) required for DNA recombination, repair and replication. The activity of RPA is mediated by single-stranded DNA binding and protein interactions. Probably involved in repair of double-strand DNA breaks (DSBs) induced by genotoxic stresses.	-1,840680812	DOWN
WDRR	WD_REPEATS_REGION domain-containing protein.	-1,813529406	DOWN
SLD5	Sld5 domain-containing protein.	-1,765503196	DOWN
GH5	Uncharacterized protein; Belongs to the glycosyl hydrolase 5 (cellulase A) family.	-1,69720344	DOWN
MCM	DNA helicase; Belongs to the MCM family.	-1,638615352	DOWN
UNK	Uncharacterized protein.	-1,571338538	DOWN
MCM	DNA helicase; Belongs to the MCM family.	-1,568559646	DOWN
UNK	Uncharacterized protein.	-1,562059554	DOWN
UNK	Uncharacterized protein.	-1,545806243	DOWN
HL4	Hydrolase_4 domain-containing protein.	-1,52376379	DOWN
REM	Remorin_C domain-containing protein.	-1,516406079	DOWN
PK	Protein kinase domain-containing protein.	-1,48670209	DOWN
ENTH	ENTH domain-containing protein.	-1,480007944	DOWN
MCM	DNA helicase; Belongs to the MCM family.	-1,464431645	DOWN
UNK	Uncharacterized protein.	-1,446145602	DOWN
UNK	Uncharacterized protein.	-1,415915958	DOWN
BETV1	Bet_v_1 domain-containing protein.	-1,256965226	DOWN
F-BOX	F-box domain-containing protein.	-1,165724519	DOWN
Mtase	Uncharacterized protein; Belongs to the class I-like SAM-binding methyltransferase superfamily. Cation-independent O-methyltransferase family.	-1,055740577	DOWN
UNK	Uncharacterized protein.	-1,024801547	DOWN
CBM20	CBM20 domain-containing protein.	1,023392204	UP
UNK	Uncharacterized protein.	1,105397093	UP
HSF	HSF_DOMAIN domain-containing protein.	1,119083575	UP

AMP	AMP-binding domain-containing protein.	1,144367113	UP
HSF	HSF_DOMAIN domain-containing protein.	1,217477208	UP
GST1	Uncharacterized protein; Belongs to the glycosyltransferase 1 family.	1,249839778	UP
STK	Non-specific serine/threonine protein kinase; Belongs to the protein kinase superfamily.	1,260046312	UP
UNK	Uncharacterized protein.	1,309603432	UP
PFP-ALPHA-2	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha; Regulatory subunit of pyrophosphate--fructose 6-phosphate 1- phosphotransferase.	1,356362304	UP
PYG	Alpha-1,4 glucan phosphorylase; Phosphorylase is an important allosteric enzyme in carbohydrate metabolism. Enzymes from different sources differ in their regulatory mechanisms and in their natural substrates. However, all known phosphorylases share catalytic and structural properties.	1,425189132	UP
ClpA/ClpB	Uncharacterized protein; Belongs to the ClpA/ClpB family.	1,471027239	UP
UNK	Uncharacterized protein.	1,528700534	UP
UNK	Uncharacterized protein.	1,529226452	UP
UNK	Uncharacterized protein.	1,640072849	UP
UNK	Uncharacterized protein.	1,646431999	UP
PTP	Tyrosine-protein phosphatase domain-containing protein.	1,654065391	UP
UNK	Uncharacterized protein.	1,672054798	UP
TPP	Trehalose 6-phosphate phosphatase; Removes the phosphate from trehalose 6-phosphate to produce free trehalose.	1,725579513	UP
SS	Starch synthase, chloroplastic/amyloplastic; Belongs to the glycosyltransferase 1 family. Bacterial/plant glycogen synthase subfamily.	1,731656599	UP
GH18	Glyco_hydro_18 domain-containing protein; Belongs to the glycosyl hydrolase 18 family.	1,756557098	UP
JD	J domain-containing protein.	1,773177739	UP
PIMT	Protein-L-isoaspartate O-methyltransferase.	1,805373863	UP
UNK	Uncharacterized protein.	1,807614483	UP
HSP70	Uncharacterized protein; Belongs to the heat shock protein 70 family.	1,810384196	UP

PFK	ATP-dependent 6-phosphofructokinase; Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis.	1,822940304	UP
ClpA/ClpB	Uncharacterized protein; Belongs to the ClpA/ClpB family.	1,865270956	UP
UNK	Uncharacterized protein.	1,870124439	UP
SNZ	SOR_SNZ domain-containing protein; Belongs to the PdxS/SNZ family.	1,933166336	UP
PPM	PPM-type phosphatase domain-containing protein.	2,141540449	UP
GST1	Uncharacterized protein; Belongs to the glycosyltransferase 1 family.	2,186677595	UP
DOG	DOG1 domain-containing protein.	2,203489912	UP
UNK	Uncharacterized protein.	2,204546565	UP
UNK	Uncharacterized protein.	2,240369625	UP
Fe2OGD	Fe2OG dioxygenase domain-containing protein; Belongs to the iron/ascorbate-dependent oxidoreductase family.	2,242449416	UP
UNK	Uncharacterized protein.	2,268827622	UP
UNK	Uncharacterized protein.	2,320439114	UP
INO1	Inos-1-P_synth domain-containing protein.	2,323935178	UP
PPM	PPM-type phosphatase domain-containing protein.	2,325712398	UP
PPM	PPM-type phosphatase domain-containing protein.	2,353847191	UP
SS	Str_synth domain-containing protein.	2,355372448	UP
UNK	Uncharacterized protein.	2,371183195	UP
UNK	Uncharacterized protein.	2,413058424	UP
HSP70	Uncharacterized protein; Belongs to the heat shock protein 70 family.	2,425603806	UP
HSP70	Uncharacterized protein; Belongs to the heat shock protein 70 family.	2,443397534	UP
UNK	Uncharacterized protein.	2,491837289	UP
UNK	Uncharacterized protein.	2,530680881	UP
TRX	Thioredoxin; Belongs to the thioredoxin family.	2,623623216	UP
PPM	PPM-type phosphatase domain-containing protein.	2,678447309	UP
UNK	Uncharacterized protein.	2,750318096	UP

HSP70	Uncharacterized protein; Belongs to the heat shock protein 70 family.	2,780246858	UP
UGT	HATPase_c domain-containing protein.	2,821325781	UP
WDRR	WD_REPEATS_REGION domain-containing protein.	2,824404157	UP
UNK	Uncharacterized protein.	2,958507685	UP
UNK	Uncharacterized protein.	3,108005874	UP
EPI	Epimerase domain-containing protein.	3,198566919	UP
Fe2OGD	Fe2OG dioxygenase domain-containing protein; Belongs to the iron/ascorbate-dependent oxidoreductase family.	3,208482257	UP
BETV1	Bet_v_1 domain-containing protein.	3,242973303	UP
HOMEBOX	Homeobox domain-containing protein.	3,245550459	UP
UNK	Uncharacterized protein.	3,265528455	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	3,464485275	UP
UNK	Uncharacterized protein.	3,593884339	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	3,599048836	UP
UNK	Uncharacterized protein.	3,605452339	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	3,669253356	UP
BETV1	Bet_v_1 domain-containing protein.	3,750034765	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	3,816534924	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	4,052430939	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	4,13398657	UP
UNK	Uncharacterized protein.	4,196228188	UP
UNK	Uncharacterized protein.	4,209360194	UP
BAG	BAG domain-containing protein.	4,223508997	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	4,29370107	UP
UNK	Uncharacterized protein.	4,293879257	UP
Fe2OGD	Fe2OG dioxygenase domain-containing protein; Belongs to the iron/ascorbate-dependent oxidoreductase family.	4,360586521	UP

BRO1	BRO1 domain-containing protein.	5,085458292	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	5,374805897	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	5,583507584	UP
AAI	AAI domain-containing protein.	5,634763065	UP
UNK	Uncharacterized protein.	5,665829193	UP
SHSP20	SHSP domain-containing protein; Belongs to the small heat shock protein (HSP20) family.	6,122736038	UP
HSP70	Uncharacterized protein; Belongs to the heat shock protein 70 family.	6,338553731	UP
DHN	Uncharacterized protein; Belongs to the plant dehydrin family.	6,931087944	UP