

**Table S1.** Graphs present 17 KEGG pathways with the highest transcriptional variations, out of the down-regulated DEGs in *Paspalum vaginatum*

Term Name	MainClass	GeneHitsInSelectedSet	p-value	enrichFactor	GeneListInSelectedSets
00280 Valine, leucine and isoleucine degradation	A09100 Metabolism	28	5.86E-07	2.806163	TRINITY_DN127_c0_g2_i1_6, TRINITY_DN37349_c0_g1_i1_6, TRINITY_DN35781_c0_g1_i1_4, TRINITY_DN5569_c0_g2_i1_4, TRINITY_DN32766_c0_g1_i1_4, TRINITY_DN31880_c0_g1_i1_4, TRINITY_DN36297_c0_g1_i1_4, TRINITY_DN30746_c0_g1_i1_4, TRINITY_DN36089_c0_g1_i1_4, TRINITY_DN29435_c0_g1_i1_6, TRINITY_DN37543_c0_g1_i1_6, TRINITY_DN27651_c0_g1_i1_6, TRINITY_DN36033_c0_g1_i1_4, TRINITY_DN37346_c0_g1_i1_4, TRINITY_DN27451_c0_g1_i1_4, TRINITY_DN38780_c0_g1_i1_6, TRINITY_DN31588_c0_g1_i1_4, TRINITY_DN28649_c0_g1_i1_4, TRINITY_DN26605_c0_g1_i1_4, TRINITY_DN31675_c0_g1_i1_6, TRINITY_DN7306_c0_g1_i1_4, TRINITY_DN5158_c0_g2_i1_4, TRINITY_DN33593_c0_g1_i1_4, TRINITY_DN34083_c0_g1_i1_4, TRINITY_DN4679_c0_g1_i1_6, TRINITY_DN26364_c0_g1_i1_4, TRINITY_DN34962_c0_g1_i1_4, TRINITY_DN34394_c0_g1_i1_4

						TRINITY_DN30255_c0_g1_i1_4, TRINITY_DN25720_c0_g2_i1_4, TRINITY_DN32182_c0_g1_i1_4, TRINITY_DN26817_c0_g1_i1_4, TRINITY_DN35285_c0_g1_i1_4, TRINITY_DN36276_c0_g1_i1_4, TRINITY_DN14215_c0_g1_i1_4, TRINITY_DN12061_c0_g1_i1_4, TRINITY_DN35364_c0_g1_i1_4, TRINITY_DN20376_c0_g3_i1_4, TRINITY_DN16863_c0_g1_i1_4, TRINITY_DN27369_c0_g1_i1_4, TRINITY_DN25759_c0_g1_i2_6, TRINITY_DN5471_c0_g1_i1_6, TRIN-
03400 DNA repair and recombination pro- teins	A09180 Brite Hier- archies	175	1.46E-05	1.263987		ITY_DN13697_c0_g1_i1_4, TRIN- ITY_DN34538_c0_g1_i1_4, TRIN- ITY_DN34330_c0_g1_i1_4, TRIN- ITY_DN27594_c0_g1_i1_3, TRIN- ITY_DN30179_c0_g1_i1_6, TRIN- ITY_DN13485_c0_g2_i1_6, TRIN- ITY_DN13667_c0_g2_i1_6, TRIN- ITY_DN28906_c0_g1_i1_4, TRIN- ITY_DN27637_c0_g1_i1_4, TRIN- ITY_DN36002_c0_g1_i1_4, TRIN- ITY_DN30434_c0_g1_i1_4, TRIN- ITY_DN32780_c0_g1_i1_6, TRIN- ITY_DN3051_c0_g1_i2_4, TRIN- ITY_DN38907_c0_g1_i1_6, TRIN- ITY_DN16241_c0_g1_i1_4, TRIN- ITY_DN16771_c0_g1_i1_4, TRIN- ITY_DN36191_c0_g1_i1_5, TRIN- ITY_DN31332_c0_g1_i1_4, TRIN- ITY_DN28886_c0_g1_i1_4, TRIN- ITY_DN35014_c0_g1_i1_4, TRIN- ITY_DN19169_c0_g1_i1_4, TRIN- ITY_DN26722_c0_g1_i1_4, TRIN- ITY_DN37118_c0_g1_i1_4, TRIN-

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ITY\_DN10198\_c0\_g2\_i1\_4, TRIN-  
ITY\_DN4058\_c0\_g1\_i1\_6, TRIN-  
ITY\_DN36727\_c0\_g1\_i1\_4, TRIN-  
ITY\_DN28569\_c0\_g1\_i1\_6

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						TRINITY_DN31687_c0_g1_i1_4, TRINITY_DN127_c0_g2_i1_6, TRIN- ITY_DN3062_c0_g2_i1_4, TRIN- ITY_DN31880_c0_g1_i1_4, TRIN- ITY_DN33884_c0_g1_i1_4, TRIN- ITY_DN30746_c0_g1_i1_4, TRIN- ITY_DN29435_c0_g1_i1_6, TRIN- ITY_DN30161_c0_g1_i1_6, TRIN- ITY_DN3293_c0_g1_i1_4, TRIN- ITY_DN37346_c0_g1_i1_4, TRIN- ITY_DN27451_c0_g1_i1_4, TRIN- ITY_DN27394_c0_g1_i1_4, TRIN- ITY_DN38780_c0_g1_i1_6, TRIN- ITY_DN31588_c0_g1_i1_4, TRIN- ITY_DN35640_c0_g1_i1_4, TRIN- ITY_DN28649_c0_g1_i1_4, TRIN- ITY_DN26605_c0_g1_i1_4, TRIN- ITY_DN31949_c0_g1_i1_4, TRIN- ITY_DN29834_c0_g1_i1_6, TRIN- ITY_DN29924_c0_g1_i1_4, TRIN- ITY_DN35824_c0_g1_i1_4, TRIN- ITY_DN33593_c0_g1_i1_4, TRIN- ITY_DN4679_c0_g1_i1_6, TRIN- ITY_DN27308_c0_g1_i1_4, TRIN- ITY_DN37350_c0_g1_i1_4
00564 Glycerophos- pholipid metabolism	A09100 Metabo- lism	25	5.87E-04	2.020566377		TRINITY_DN30255_c0_g1_i1_4, TRINITY_DN25720_c0_g2_i1_4, TRINITY_DN32182_c0_g1_i1_4, TRINITY_DN26817_c0_g1_i1_4, TRINITY_DN35285_c0_g1_i1_4, TRINITY_DN36276_c0_g1_i1_4, TRINITY_DN20918_c0_g1_i1_4, TRINITY_DN14215_c0_g1_i1_4, TRINITY_DN12061_c0_g1_i1_4, TRINITY_DN35364_c0_g1_i1_4, TRINITY_DN20376_c0_g3_i1_4, TRINITY_DN16863_c0_g1_i1_4,
03021 Transcription machinery	A09180 Brite Hier- archies	182	8.10E-04	1.179652998		

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TRINITY\_DN27369\_c0\_g1\_i1\_4,  
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TRINITY\_DN5471\_c0\_g1\_i1\_6, TRIN-  
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00561 Glycerolipid metabolism	A09100 Metabolism	20	0.002781088	1.96939046		TRINITY_DN35640_c0_g1_i1_4, TRINITY_DN31687_c0_g1_i1_4, TRINITY_DN127_c0_g2_i1_6, TRIN- ITY_DN28649_c0_g1_i1_4, TRIN- ITY_DN26605_c0_g1_i1_4, TRIN- ITY_DN3062_c0_g2_i1_4, TRIN- ITY_DN31880_c0_g1_i1_4, TRIN- ITY_DN35824_c0_g1_i1_4, TRIN- ITY_DN30746_c0_g1_i1_4, TRIN- ITY_DN33593_c0_g1_i1_4, TRIN- ITY_DN29435_c0_g1_i1_6, TRIN- ITY_DN30161_c0_g1_i1_6, TRIN- ITY_DN3293_c0_g1_i1_4, TRIN- ITY_DN37346_c0_g1_i1_4, TRIN- ITY_DN27451_c0_g1_i1_4, TRIN- ITY_DN4679_c0_g1_i1_6, TRIN- ITY_DN27394_c0_g1_i1_4, TRIN-

						ITY_DN38780_c0_g1_i1_6, TRINITY_DN31588_c0_g1_i1_4, TRINITY_DN27308_c0_g1_i1_4
04070 Phosphatidylinositol signaling system	A09130 Environmental Information Processing	2	0.005709077	15.03301384		TRINITY_DN35640_c0_g1_i1_4, TRINITY_DN27308_c0_g1_i1_4
						TRINITY_DN28340_c0_g1_i1_4, TRINITY_DN35675_c0_g1_i1_4, TRINITY_DN35781_c0_g1_i1_4, TRINITY_DN29389_c0_g1_i1_4, TRINITY_DN32766_c0_g1_i1_4, TRINITY_DN31108_c0_g1_i1_4, TRINITY_DN27558_c0_g1_i1_4, TRINITY_DN8825_c0_g2_i1_4, TRINITY_DN33073_c0_g1_i1_4, TRINITY_DN29435_c0_g1_i1_6, TRINITY_DN29733_c0_g1_i1_4, TRINITY_DN27651_c0_g1_i1_6, TRINITY_DN35022_c0_g1_i1_4, TRINITY_DN36253_c0_g1_i1_4, TRINITY_DN32951_c0_g1_i1_6, TRINITY_DN26955_c0_g1_i1_4, TRINITY_DN35347_c0_g1_i1_4, TRINITY_DN34048_c0_g1_i1_4, TRINITY_DN33937_c0_g1_i1_4, TRINITY_DN5158_c0_g2_i1_4, TRINITY_DN33662_c0_g1_i1_6, TRINITY_DN28916_c0_g1_i1_4, TRINITY_DN28568_c0_g1_i1_4, TRINITY_DN24015_c0_g1_i1_6, TRINITY_DN31537_c0_g1_i1_4, TRINITY_DN37684_c0_g1_i1_4, TRINITY_DN36782_c0_g1_i1_4, TRINITY_DN34962_c0_g1_i1_4, TRINITY_DN30138_c0_g1_i1_4
00562 Inositol phosphate metabolism	A09100 Metabolism	29	0.007571483	1.602784564		



					ITY_DN29512_c0_g1_i1_4, TRINITY_DN26616_c0_g1_i1_4, TRINITY_DN26835_c0_g1_i1_4
					TRINITY_DN8568_c0_g1_i1_4, TRINITY_DN33313_c0_g1_i1_4, TRINITY_DN28880_c0_g1_i1_4, TRINITY_DN36395_c0_g1_i1_4, TRINITY_DN29693_c0_g1_i1_4, TRINITY_DN31947_c0_g1_i1_4, TRINITY_DN29512_c0_g1_i1_4, TRINITY_DN26616_c0_g1_i1_4, TRINITY_DN26835_c0_g1_i1_4
03050 Proteasome	A09120 Genetic Information Processing	9	0.010835471	2.445128758	
					TRINITY_DN31687_c0_g1_i1_4, TRINITY_DN127_c0_g2_i1_6, TRINITY_DN3062_c0_g2_i1_4, TRINITY_DN31880_c0_g1_i1_4, TRINITY_DN33884_c0_g1_i1_4, TRINITY_DN30746_c0_g1_i1_4, TRINITY_DN29435_c0_g1_i1_6, TRINITY_DN30161_c0_g1_i1_6, TRINITY_DN3293_c0_g1_i1_4, TRINITY_DN37346_c0_g1_i1_4, TRINITY_DN27451_c0_g1_i1_4, TRINITY_DN27394_c0_g1_i1_4, TRINITY_DN38780_c0_g1_i1_6, TRINITY_DN31588_c0_g1_i1_4, TRINITY_DN35640_c0_g1_i1_4, TRINITY_DN28649_c0_g1_i1_4, TRINITY_DN26605_c0_g1_i1_4, TRINITY_DN31949_c0_g1_i1_4, TRINITY_DN29834_c0_g1_i1_6, TRINITY_DN29924_c0_g1_i1_4, TRINITY_DN35533_c0_g1_i1_4, TRINITY_DN35824_c0_g1_i1_4, TRINITY_DN29940_c0_g1_i1_4, TRINITY_DN29512_c0_g1_i1_4, TRINITY_DN26616_c0_g1_i1_4, TRINITY_DN26835_c0_g1_i1_4
B 09103 Lipid metabolism	A09100 Metabolism	28	0.017124862	1.517756205	

ITY\_DN28926\_c0\_g1\_i1\_4, TRINITY\_DN33593\_c0\_g1\_i1\_4, TRINITY\_DN4679\_c0\_g1\_i1\_6, TRINITY\_DN27308\_c0\_g1\_i1\_4, TRINITY\_DN37350\_c0\_g1\_i1\_4

**Table S2.** Graphs present 14 KEGG pathways with the highest transcriptional variations, out of the up-regulated DEGs in *Paspalum vaginatum*.

Term Name	MainClass	GeneHitsInSelectedSet	p-value	enrichFactor	GeneListInSelectedSets
03016 Transfer RNA biogenesis	A09180 Brite Hierarchies	15	8.26E-06	0.41204	TRINITY_DN17249_c0_g1_i1_2, TRINITY_DN26978_c0_g1_i1_1, TRINITY_DN10409_c0_g1_i4_1, TRINITY_DN7420_c0_g1_i1_2, TRINITY_DN18386_c0_g1_i4_2, TRINITY_DN25122_c0_g1_i8_2, TRINITY_DN8697_c0_g1_i1_2, TRINITY_DN23660_c0_g2_i1_2, TRINITY_DN24792_c0_g1_i18_2, TRINITY_DN21259_c0_g1_i6_5, TRINITY_DN13877_c0_g1_i1_2, TRINITY_DN8539_c0_g1_i1_3, TRINITY_DN11896_c0_g1_i4_2, TRINITY_DN17375_c0_g1_i1_3, TRINITY_DN19525_c1_g1_i1_1
00660 C5-Branched dibasic acid metabolism	A09100 Metabolism	9	2.89E-05	0.43110	TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN15585_c0_g1_i2_6, TRINITY_DN9193_c0_g1_i1_6, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN17831_c0_g1_i1_3, TRINITY_DN24324_c0_g1_i1_5, TRINITY_DN21552_c0_g1_i2_3, TRINITY_DN21482_c0_g1_i3_3

00290 Valine, leucine and isoleucine biosynthesis	A09100 Metabolism	11	7.36E-05	0.431108	TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN15585_c0_g1_i2_6, TRINITY_DN9193_c0_g1_i1_6, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN17831_c0_g1_i1_3, TRINITY_DN24061_c0_g1_i1_2, TRINITY_DN25983_c0_g3_i1_5, TRINITY_DN24324_c0_g1_i1_5, TRINITY_DN21552_c0_g1_i2_3, TRINITY_DN21482_c0_g1_i3_3
					TRINITY_DN21352_c0_g1_i32_1, TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN15585_c0_g1_i2_6, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN9193_c0_g1_i1_6, TRINITY_DN21326_c0_g1_i17_3, TRINITY_DN17831_c0_g1_i1_3, TRINITY_DN21720_c0_g1_i8_3, TRINITY_DN25983_c0_g3_i1_5, TRINITY_DN24324_c0_g1_i1_5, TRINITY_DN21482_c0_g1_i3_3,
B 09105 Amino acid metabolism	A09100 Metabolism	22	0.007248	0.431108	TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN18616_c0_g1_i9_2, TRINITY_DN23809_c0_g4_i8_3, TRINITY_DN25467_c0_g1_i10_2, TRINITY_DN25579_c0_g1_i7_6, TRINITY_DN24061_c0_g1_i1_2, TRINITY_DN25240_c0_g1_i14_2, TRINITY_DN22255_c0_g2_i20_1, TRINITY_DN21552_c0_g1_i2_3, TRINITY_DN23285_c0_g1_i10_2, TRINITY_DN24132_c0_g2_i11_2
B 09101 Carbohydrate metabolism	A09100 Metabolism	19	0.006482	0.423887	TRINITY_DN21352_c0_g1_i32_1, TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN15585_c0_g1_i2_6,



						TRINITY_DN16544_c0_g1_i2_3, TRINITY_DN24039_c1_g1_i16_2, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN9193_c0_g1_i1_6, TRINITY_DN21326_c0_g1_i17_3, TRINITY_DN17831_c0_g1_i1_3, TRINITY_DN23953_c0_g1_i19_2, TRINITY_DN24324_c0_g1_i1_5, TRINITY_DN21482_c0_g1_i3_3, TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN25042_c0_g2_i2_2, TRINITY_DN17068_c0_g1_i5_1, TRINITY_DN21552_c0_g1_i2_3, TRINITY_DN23285_c0_g1_i10_2, TRINITY_DN19877_c0_g1_i1_1, TRINITY_DN24132_c0_g2_i11_2
B 09108 Metabolism of cofactors and vita- mins	A09100 Metabo- lism	14	0.005467	0.744515		TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN24722_c0_g1_i24_2, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN21326_c0_g1_i17_3, TRINITY_DN25983_c0_g3_i1_5, TRINITY_DN21482_c0_g1_i3_3, TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN23809_c0_g4_i8_3, TRINITY_DN20232_c0_g1_i3_4, TRINITY_DN25579_c0_g1_i7_6, TRINITY_DN24061_c0_g1_i1_2, TRINITY_DN20392_c0_g1_i3_4, TRINITY_DN22255_c0_g2_i20_1, TRINITY_DN23285_c0_g1_i10_2
A09100 Metabolism	A09100 Metabo- lism	41	0.017723	0.795616		TRINITY_DN21352_c0_g1_i32_1, TRINITY_DN24039_c1_g1_i16_2, TRINITY_DN21326_c0_g1_i17_3, TRINITY_DN17831_c0_g1_i1_3, TRINITY_DN21720_c0_g1_i8_3, TRINITY_DN23953_c0_g1_i19_2,

					TRINITY_DN24198_c0_g4_i1_2, TRINITY_DN21482_c0_g1_i3_3, TRINITY_DN16223_c0_g1_i8_1, TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN25042_c0_g2_i2_2, TRINITY_DN23809_c0_g4_i8_3, TRINITY_DN20232_c0_g1_i3_4, TRINITY_DN24104_c7_g1_i3_3, TRINITY_DN24061_c0_g1_i1_2, TRINITY_DN23285_c0_g1_i10_2, TRINITY_DN24082_c1_g2_i15_3, TRINITY_DN24132_c0_g2_i11_2, TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN15585_c0_g1_i2_6, TRINITY_DN16544_c0_g1_i2_3, TRINITY_DN22934_c0_g1_i2_2, TRINITY_DN8538_c0_g1_i2_2, TRINITY_DN23416_c0_g1_i9_3, TRINITY_DN24722_c0_g1_i24_2, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN9193_c0_g1_i1_6, TRINITY_DN21684_c0_g1_i3_3, TRINITY_DN25983_c0_g3_i1_5, TRINITY_DN24324_c0_g1_i1_5, TRINITY_DN19096_c0_g4_i1_1, TRINITY_DN18616_c0_g1_i9_2, TRINITY_DN17068_c0_g1_i5_1, TRINITY_DN25467_c0_g1_i10_2, TRINITY_DN25579_c0_g1_i7_6, TRINITY_DN25240_c0_g1_i14_2, TRINITY_DN20392_c0_g1_i3_4, TRINITY_DN22709_c0_g1_i6_3, TRINITY_DN22255_c0_g2_i20_1, TRINITY_DN21552_c0_g1_i2_3, TRINITY_DN19877_c0_g1_i1_1
00130 Ubiquinone and other terpenoid- quinone biosynthesis	A09100 Metabo- lism	2	0.032161	0.243044	TRINITY_DN24722_c0_g1_i24_2, TRINITY_DN20232_c0_g1_i3_4

00620 Pyruvate metabolism	A09100 Metabolism	5	0.027258	0.305277	TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN16544_c0_g1_i2_3, TRINITY_DN17068_c0_g1_i5_1, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN21482_c0_g1_i3_3
00710 Carbon fixation in photosynthetic organisms	A09100 Metabolism	5	0.027258	0.637771	TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN16544_c0_g1_i2_3, TRINITY_DN17068_c0_g1_i5_1, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN21482_c0_g1_i3_3
B 09106 Metabolism of other amino acids	A09100 Metabolism	3	0.079691	0.632437	TRINITY_DN24039_c1_g1_i16_2, TRINITY_DN21326_c0_g1_i17_3, TRINITY_DN23285_c0_g1_i10_2
00790 Folate biosynthesis	A09100 Metabolism	7	0.04543	0.741387	TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN23809_c0_g4_i8_3, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN25579_c0_g1_i7_6, TRINITY_DN22255_c0_g2_i20_1, TRINITY_DN21482_c0_g1_i3_3
00360 Phenylalanine metabolism	A09100 Metabolism	7	0.04543	0.75406	TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN23809_c0_g4_i8_3, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN25579_c0_g1_i7_6, TRINITY_DN22255_c0_g2_i20_1, TRINITY_DN21482_c0_g1_i3_3
00400 Phenylalanine, tyrosine and tryptophan biosynthesis	A09100 Metabolism	7	0.04543	0.770524	TRINITY_DN22555_c0_g2_i7_3, TRINITY_DN23869_c1_g1_i9_2, TRINITY_DN23809_c0_g4_i8_3, TRINITY_DN22470_c0_g1_i4_2, TRINITY_DN25579_c0_g1_i7_6,

					TRINITY_DN22255_c0_g2_i20_1, TRINITY_DN21482_c0_g1_i3_3
00600 Sphingolipid metabolism	A09100 Metabo- lism	3	0.043074	0.79482	TRINITY_DN8538_c0_g1_i2_2, TRINITY_DN23416_c0_g1_i9_3, TRINITY_DN21684_c0_g1_i3_3