

Supplementary Table 5. The identification of genes related to lignin biosynthesis and transcriptional regulation based on the information from *Arabidopsis thaliana* (TAIR v.11).

GENE	AGI CODE	HOMOLOGOUS GENE CODE	SCORE	E-VALUE	DEG	
LIGNIN BIOSYNTHESIS GENE						
PAL1	AT2G37040	TRINITY_DN48964_c1_g1	143	7.00E-33	YES	
		TRINITY_DN33936_c0_g2	117	4.00E-25	NO	
		TRINITY_DN48964_c0_g4	119	1.00E-25	YES	
		TRINITY_DN33936_c0_g3	117	4.00E-25	YES	
		TRINITY_DN48964_c0_g1	68	3.00E-10	YES	
C4H	AT2G30490	TRINITY_DN37968_c1_g1	133	5.00E-30	NO	
		TRINITY_DN36925_c1_g3	105	1.00E-21	YES	
4CL1	AT1G51680	TRINITY_DN34501_c0_g6	62	2.00E-08	YES	
		TRINITY_DN39894_c1_g1	52	2.00E-05	NO	
C3H1	AT2G40890	TRINITY_DN28133_c0_g3	76	1.00E-12	YES	
HCT	AT5G48930	TRINITY_DN46437_c2_g1	107	2.00E-22	YES	
CSE	AT1G52760	TRINITY_DN34444_c0_g4	52	9.00E-06	NO	
COMT	AT5G54160	TRINITY_DN24253_c2_g4	178	7.00E-44	YES	
CCOAOMT1	AT4G34050	TRINITY_DN25789_c0_g2	256	2.00E-67	YES	
		TRINITY_DN38542_c0_g1	170	1.00E-41	YES	
F5H1	AT4G36220	TRINITY_DN40625_c1_g3	98	3.00E-19	NO	
CCR1	AT1G15950	TRINITY_DN27918_c1_g2	78	2.00E-13	NO	
CAD3	AT4G34230	TRINITY_DN41222_c2_g1	161	2.00E-38	NO	
LAC4	At2g38080	TRINITY_DN29772_c1_g3	133	5.00E-30	YES	
		TRINITY_DN45270_c1_g4	54	4.00E-06	NO	
		TRINITY_DN44491_c1_g2	54	4.00E-06	YES	
		TRINITY_DN36780_c0_g2	54	4.00E-06	YES	
PRX2	AT1G05250	TRINITY_DN24750_c2_g5	50	4.00E-05	YES	
LIGNIN TRANSCRIPTIONAL REGULATION GENE						
NST1	AT2G46770	TRINITY_DN47942_c0_g19	139	6.00E-32	YES	
MYB46/83	AT5G12870/	TRINITY_DN36951_c0_g4	105	6.00E-22	YES	
MYB85/42	AT4G22680/	TRINITY_DN35568_c1_g3	178	5.00E-44	NO	
		AT4G12350	TRINITY_DN26557_c1_g12	143	3.00E-33	YES
		TRINITY_DN24116_c0_g6	72	8.00E-12	NO	
		TRINITY_DN38430_c0_g7	56	5.00E-07	NO	
MYB58/63	AT1G16490/	TRINITY_DN40512_c1_g1	107	2.00E-22	NO	
MYB103	AT1G63910	TRINITY_DN24116_c0_g1	78	2.00E-13	NO	
BLH	AT4G34610	TRINITY_DN40632_c0_g1	121	2.00E-26	NO	