

Supplementary information

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Table S1 Sequence information of RT-qPCR primers for selected key gene

Gene name	Primer sequence
<i>TcTPS9</i>	F: AGGCTTCTTAGGCGACATGG; R: ATTTTCGGGCCTCGTCCATT
<i>TcTPS13</i>	F: TGGCTCTTTCTCAACCCAC; R: TGGTGTTGGCTTCTGTACCC
<i>TcTPS14</i>	F: GATGGCGATCTCTACGCTGT; R: GGCTAAGTATGCTGCCTCGT
<i>TcTPS15</i>	F: CCTCTACGTAAAGCCCTGCC; R: GCCACCACCTTGTCATCTCA
<i>TcDXR</i>	F: ATTTTCGGGCCTCGTCCATT; R: AAGGCGACACCACCAATTCT
<i>TcDXS5</i>	F: GCCCATGATGTGGACCTTCA; R: CAGTCTCATCTGACGGAGCC
<i>TcHDR2</i>	F: TGGTGGGTGAAACTCAAGCAA; R: TTGTGACAGGACCCTCTGGT
<i>TcGGPPS1</i>	F: TCGGAACGATACTGGGAGGT; R: CAAGTCTTTCCCGGCAGTCT
<i>TcHMGS1</i>	F: ATGGGATGGACGTTATGGGC; R: AGGGGAATCAGGCCCAACTA
<i>TcFPPS1</i>	F: AGGGGAATCAGGCCCAACTA; R: AGCCATTCGATACACCAGCC
<i>TcLOX2</i>	F: GCACCCTCATTTCGGTACA; R: AACCGCCACTGCTTGTCATA
<i>TcLOX3</i>	F: GTTCGAGACGCCAGAAGCTA; R: ATGGCCATTCCGTGACCAAT
<i>TcAOS2</i>	F: TGCTATTCGTCCGATCACCG; R: AGTCGTGGCGGTCTTTGATT
<i>TcOPR3</i>	F: AGGTTTCCTCATGTGCCTGG; R: AACGTGCCACAGTTGACAGA
<i>TcJAR1</i>	F: AACGTGCCACAGTTGACAGA; R: AAGGCACCATTGACCCAGTC
<i>TcCOI1</i>	F: AATGGTTCGCCCATCTCTGGA; R: AGGAATCTGGATCCAACGGC
<i>TcJAZ1</i>	F: ATCGTTGTCTCTGGCTGCAT; R: TCAGGGCAGAAATCAAGCGT
<i>TcJAZ2</i>	F: TTCACCTGGAAACATGGCGG; R: TCATTTGTGCAGTTTGCGGT
<i>TcJAZ3</i>	F: TTCCCCGTCGTCAAAGAAG; R: TTTGCTGGAATCAACCGCAC
<i>TcJAZ4</i>	F: TCCCCCATCGTCAAAGAAGC; R: CTTCTTCGGAGTAGTCGGC

Table S2 Gene id and gene name of MVA, MEP pathway and JA biosynthesis and signal transduction

Gene_id	Gene name
<i>MVA pathway</i>	
TRINITY_DN55439_c1_g1	<i>TcACCT</i>
TRINITY_DN11679_c0_g1	<i>TcHMGS1</i>
TRINITY_DN4016_c0_g1	<i>TcHMGS2</i>
TRINITY_DN7172_c0_g2	<i>TcHMGR</i>
TRINITY_DN1511_c0_g1	<i>TcMK</i>
TRINITY_DN11504_c0_g1	<i>TcPMK1</i>
TRINITY_DN44665_c0_g2	<i>TcPMK2</i>
TRINITY_DN7246_c0_g1	<i>TcFPFS1</i>
TRINITY_DN7246_c0_g2	<i>TcFPFS2</i>
TRINITY_DN12189_c0_g1	<i>TcTPS2</i>
TRINITY_DN27480_c0_g1	<i>TcTPS7</i>
TRINITY_DN42327_c0_g1	<i>TcTPS10</i>
TRINITY_DN5821_c1_g1	<i>TcTPS11</i>
TRINITY_DN59338_c0_g1	<i>TcTPS12</i>
TRINITY_DN8568_c0_g1	<i>TcTPS14</i>
TRINITY_DN8568_c0_g2	<i>TcTPS15</i>
<i>MEP pathway</i>	
TRINITY_DN15229_c0_g2	<i>TcDXS1</i>
TRINITY_DN45091_c0_g2	<i>TcDXS2</i>
TRINITY_DN5495_c0_g1	<i>TcDXS3</i>
TRINITY_DN71161_c0_g2	<i>TcDXS4</i>
TRINITY_DN8012_c0_g1	<i>TcDXS5</i>
TRINITY_DN6314_c0_g1	<i>TcDXR</i>
TRINITY_DN66073_c0_g1	<i>TcMCT1</i>
TRINITY_DN66073_c0_g2	<i>TcMCT2</i>
TRINITY_DN18111_c0_g1	<i>TcCMK</i>
TRINITY_DN10297_c0_g1	<i>TcHDS1</i>
TRINITY_DN11007_c0_g1	<i>TcHDS2</i>
TRINITY_DN22575_c0_g1	<i>TcHDS3</i>
TRINITY_DN25275_c0_g1	<i>TcHDR1</i>
TRINITY_DN5513_c0_g1	<i>TcHDR2</i>
TRINITY_DN9431_c0_g1	<i>TcHDR3</i>
TRINITY_DN14379_c0_g1	<i>TcGGPPS</i>
TRINITY_DN10363_c1_g2	<i>TcTPS1</i>
TRINITY_DN12651_c0_g4	<i>TcTPS3</i>
TRINITY_DN13634_c0_g1	<i>TcTPS4</i>
TRINITY_DN20926_c0_g1	<i>TcTPS5</i>
TRINITY_DN2301_c0_g1	<i>TcTPS6</i>
TRINITY_DN30849_c0_g1	<i>TcTPS8</i>
TRINITY_DN3174_c0_g1	<i>TcTPS9</i>

TRINITY_DN6749_c0_g1	<i>TcTPS13</i>
<i>JA biosynthesis and signal transduction</i>	
TRINITY_DN10234_c0_g1	<i>TcLOX1</i>
TRINITY_DN190_c0_g1	<i>TcLOX2</i>
TRINITY_DN190_c0_g2	<i>TcLOX3</i>
TRINITY_DN21199_c0_g1	<i>TcLOX4</i>
TRINITY_DN9710_c0_g1	<i>TcLOX5</i>
TRINITY_DN11559_c0_g1	<i>TcAOS1</i>
TRINITY_DN6969_c0_g1	<i>TcAOS2</i>
TRINITY_DN4224_c0_g1	<i>TcAOC</i>
TRINITY_DN16180_c0_g1	<i>TcOPR3</i>
TRINITY_DN1635_c0_g1	<i>TcJAR</i>
TRINITY_DN8220_c0_g1	<i>TcCOI1</i>
TRINITY_DN763_c0_g1	<i>TcJAZ1</i>
TRINITY_DN1702_c0_g1	<i>TcJAZ2</i>
TRINITY_DN2280_c0_g1	<i>TcJAZ3</i>
TRINITY_DN2280_c0_g3	<i>TcJAZ4</i>
TRINITY_DN2444_c0_g1	<i>TcERF1</i>
TRINITY_DN263_c0_g1	<i>TcERF2</i>
TRINITY_DN442_c0_g1	<i>TcERF3</i>
TRINITY_DN17485_c0_g1	<i>TcMYBs</i>
TRINITY_DN19687_c0_g1	<i>TcMYBs</i>
TRINITY_DN4447_c0_g1	<i>TcMYBs</i>
TRINITY_DN50237_c0_g1	<i>TcMYBs</i>
TRINITY_DN8397_c0_g1	<i>TcMYBs</i>
TRINITY_DN948_c0_g1	<i>TcMYBs</i>
TRINITY_DN13049_c0_g1	<i>TcWRKYs</i>
TRINITY_DN14874_c0_g1	<i>TcWRKYs</i>
TRINITY_DN16693_c0_g1	<i>TcWRKYs</i>
TRINITY_DN22750_c0_g1	<i>TcWRKYs</i>
TRINITY_DN4978_c0_g1	<i>TcWRKYs</i>
TRINITY_DN7679_c0_g1	<i>TcWRKYs</i>
TRINITY_DN925_c0_g1	<i>TcMYCs</i>
TRINITY_DN26095_c0_g1	<i>TcMYCs</i>
TRINITY_DN4074_c0_g1	<i>TcMYCs</i>
TRINITY_DN15212_c0_g1	<i>TcMYCs</i>
TRINITY_DN10898_c0_g1	<i>TcNACs</i>
TRINITY_DN3237_c0_g1	<i>TcNACs</i>

Table S3 Transcription factor family statistics

TF family	Number of TFs	Number of DETFs
MYB superfamily	189	60
NAC	121	32
AP2/ERF	120	36
bHLH	86	32
C2C2	72	35
WRKY	69	24
bZIP	50	14
GRAS	45	10
C3H	37	6
B3 superfamily	35	8
FAR1	31	1
LOB	31	13
MADS	31	4
LBD (AS2/LOB)	28	8
TCP	23	5
SBP	20	9
HSF	18	8
C2H2	17	2
ZF-HD	14	1
GRF	12	3
NF-Y	9	1
CPP	8	1
BES1	7	1
EIL	7	2
GeBP	7	2
Nin-like	7	0
SRS	6	1
CAMTA	5	1
BBR-BPC	4	0
E2F/DP	4	1
NF-X1	2	0
S1Fa-like	2	1
Whirly	2	0
NZZ/SPL	1	1
Total number	1120	323

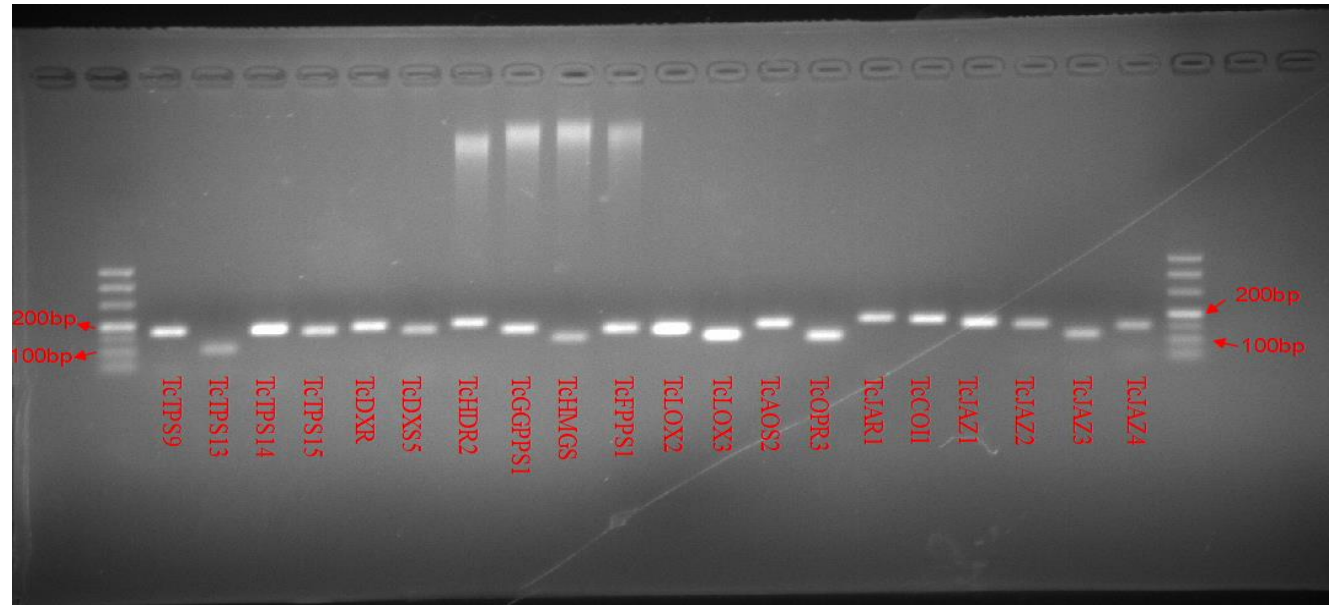
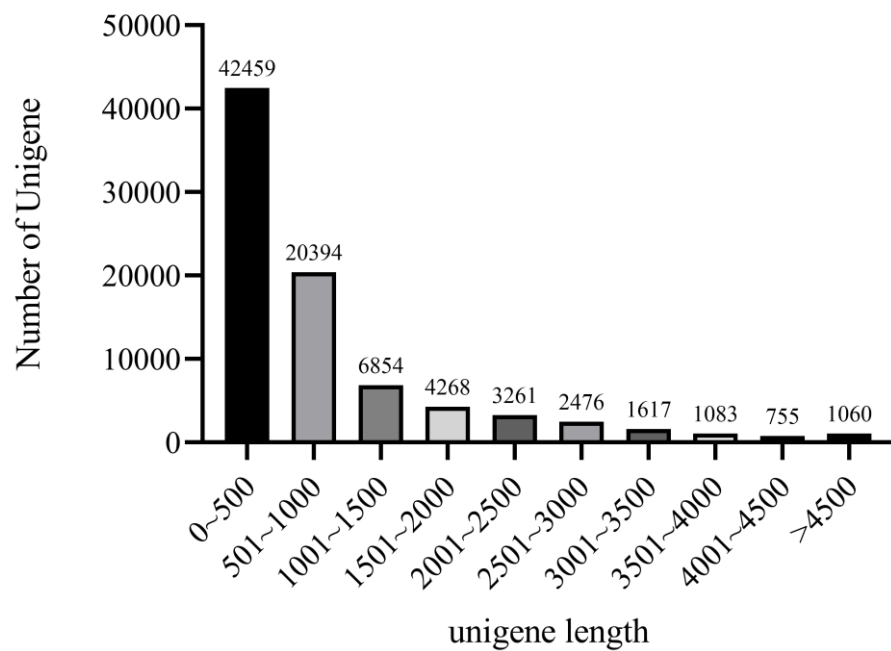


Fig. S1. Agarose nucleic acid gel for specific detection of Q-PCR primers

A



B

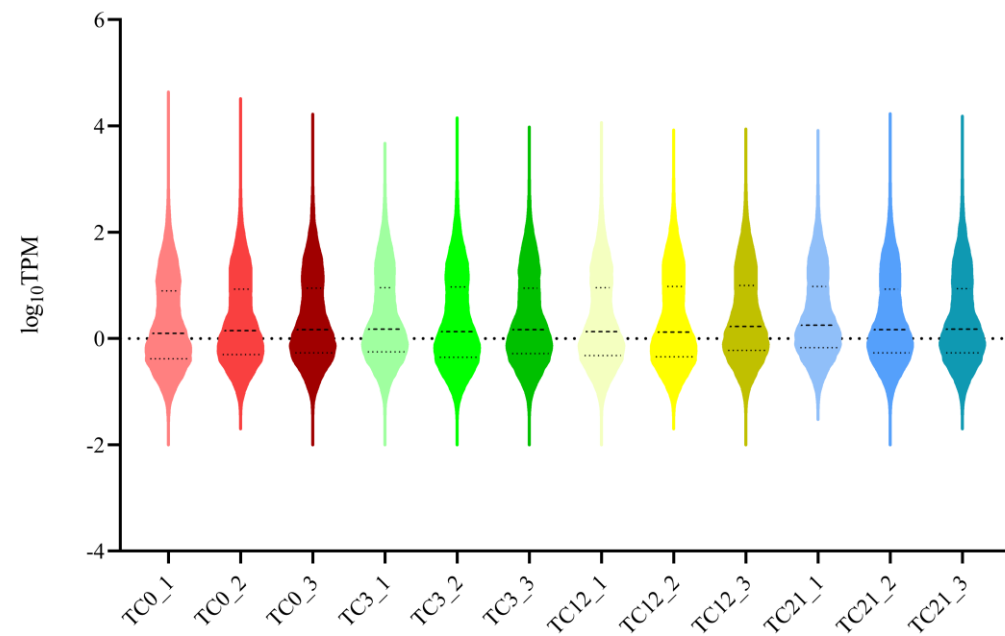


Fig. S2. (A) Length distribution of assembled unigenes. (B) Distribution of unigenes expression in each sample.

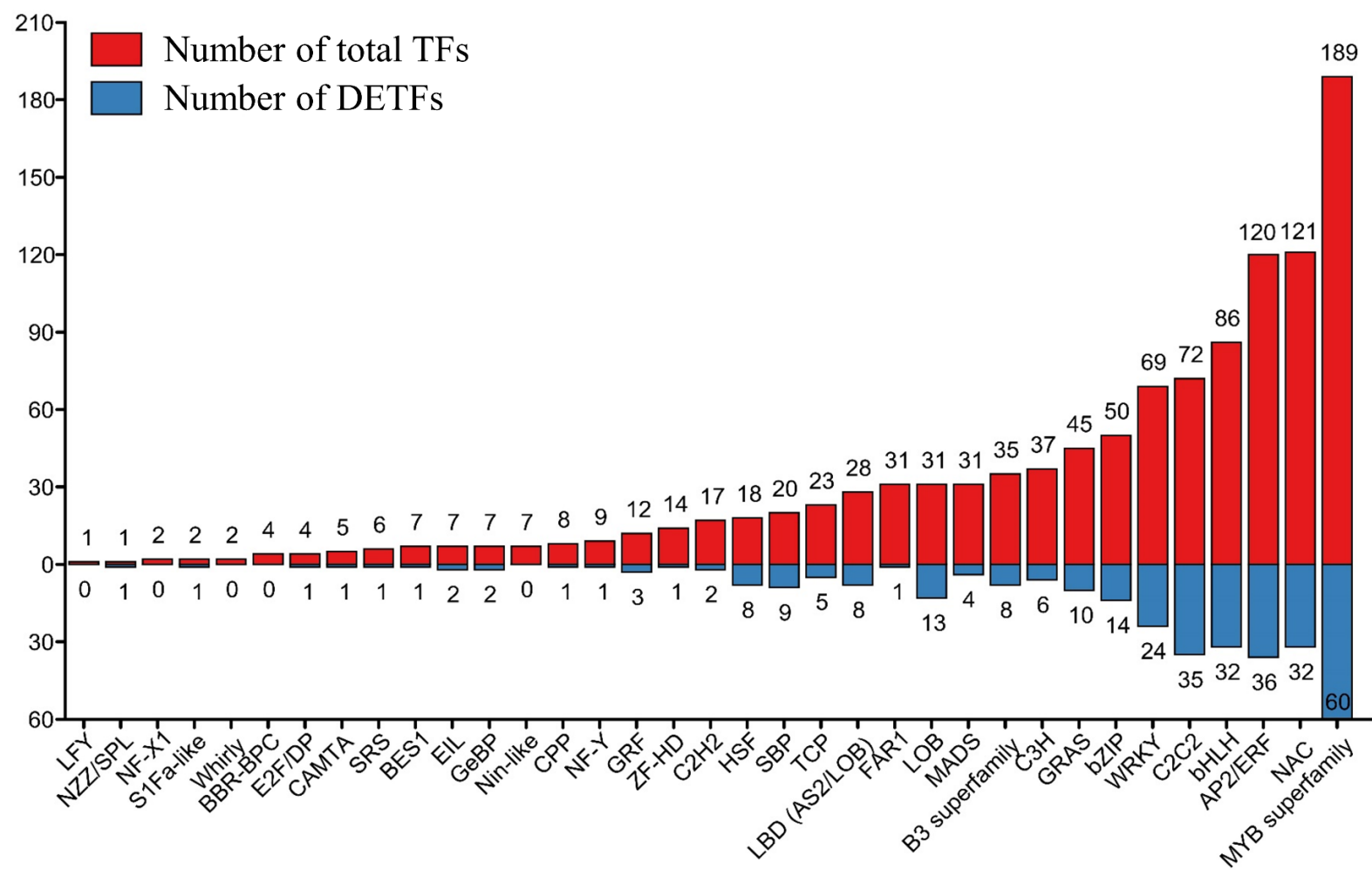


Fig. S3. The number of all TFs and differentially expressed TFs in RNA-seq data.