

Supplementary Materials

Table S1. Unigenes and sequence of 10 primer pairs for qPCR analysis.

Unigene ID	Forward Primer(5'-3')	Reverse Primer(5'-3')	Amplicon(bp)
>Unigene66368_All	GAAATCCTTCCACCCTG AA	AACCAACTCCCTAAGACG T	184
>Unigene12460_All	TTACCCGACTAATACCT GATG	CTAAAGGGAACACGCAAA	100
>Unigene51456_All	CAATCGCACTTGCTACT CG	CATCTCCACCACTTGACCC	147
>Unigene40270_All	TGACGCTTATCAGAGG AA	GAGACCAAACGGCACTA	149
>Unigene31283_All	GGATTCTGGCAGGTAA G	GAGACCAAACGGCACTA	99
>CL2750.Contig1_All	CAAGGTCCTAGCATCC G	CAAGTCCACAAGGCTCAT A	112
>CL12336.Contig8_All	TTGCAGTAACCTCCATT GATA	GGCAGTGTAGGCAGAAAC A	233
>CL12336.Contig40_All	CTGGAAGTGAAACGGA ATG	CTGCTTCTAATCGCTCTAT CC	157
>CL2750.Contig2_All	TGTATGAGCCTTGTGGA CTT	CCAATGCACGGTTTAGAG	192
>CL12336.Contig5_All	CCAAGCCCTGGATGAA A	GGCAGTGTAGGCAGAAAC A	124
18S(REF)	CAACCATAAACGATGC CGA	AGCCTTGCGACCATACTCC	

Note: The red letters indicate upregulated genes, and the green letters indicate downregulated genes.

Table S2. Statistical analysis of transcriptome sequencing of *Castanea mollissima* BL.

Samples	Total Raw Reads (Mb)	Total Clean Reads (Mb)	Q30 Percentage (%)	Total Number	N50 (bp)	Mean (nt)
I-YF1-1	51.21	49.70	93.97%	72,222	1,586	792
I-YF1-2	50.67	49.15	93.79%	65,220	1,692	848
I-YF1-3	48.62	46.75	93.98%	66,875	1,508	738
I-YRZ-1	47.82	46.36	94.15%	78,398	1,568	770
I-YRZ-2	48.88	47.43	93.93%	76,476	1,525	752
I-YRZ-3	50.43	48.99	93.93%	77,196	1,546	755
II-YF1-1	47.91	46.36	94.32%	84,244	1,626	791
II-YF1-2	49.70	48.25	94.44%	75,758	1,516	744
II-YF1-3	48.15	46.90	94.28%	70,129	1,524	743
II-YRZ-1	44.82	43.51	94.07%	71,588	1,598	782
II-YRZ-2	49.31	47.87	94.19%	76,826	1,569	764
II-YRZ-3	50.64	49.16	94.25%	78,768	1,610	778
III-YF1-1	48.40	46.43	92.92%	73,249	1,525	728
III-YF1-2	49.88	47.87	93.80%	67,921	1,430	706
III-YF1-3	51.68	49.60	93.76%	56,725	1,404	705
III-YRZ-1	48.84	46.98	93.59%	89,528	1,583	743
III-YRZ-2	51.72	49.66	93.33%	93,487	1,525	710
III-YRZ-3	48.51	46.71	93.73%	81,476	1,623	784
All	-	-	-	18,1998	2,555	1,604

Note: I, II and III represent the three sampling periods (July 20, August 01, and August 13, 2017, respectively).