

Table S1. Specific qRT-PCR primers of *Camellia oleifera* flower and fruit samples.

Gene	Primer	Primer Sequence (5'-3')
ahy-miR156a	Forward primer	AGCGTGTGACAGAAGAGAGAG
	RT Primer	GTCGTATCCAGTGCAGGGTCCGAGGTATT CGCACTGGATACGACGTGCTC
ath-miR858a	Forward primer	CGTGTTCGTTGTCTGTTCGA
	RT Primer	GTCGTATCCAGTGCAGGGTCCGAGGTATT CGCACTGGATACGACAAGGTC
stu-miR384-5p	Forward primer	TGTTGGCATTCTGTCCACCTC
	RT Primer	GTCGTATCCAGTGCAGGGTCCGAGGTATT CGCACTGGATACGACGGAGGT
lus-miR394a	Forward primer	TGTTGGCATTCTGTCCACCT
	RT Primer	GTCGTATCCAGTGCAGGGTCCGAGGTATT CGCACTGGATACGACGGAGGT
ath-miR168a-5p	Forward primer	TGTCGCTTGGTGCAGGTCCG
	RT Primer	GTCGTATCCAGTGCAGGGTCCGAGGTATT CGCACTGGATACGACTTCCCG
hbr-miR156	Forward primer	CCAGCGTGTTGACAGAAGATA
	RT Primer	GTCGTATCCAGTGCAGGGTCCGAGGTATT CGCACTGGATACGACGCTCTC
CL7673.Contig1_All	Forward primer	GTAGCGTTATGGTGGGAAGT
	Reverse primer	CTGATCGCAGCAGACAGG
Unigene31238_All	Forward primer	GATGGGTACGATGGCGTTTT
	Reverse primer	CCCGATGATTGGCGGAGTT
CL2703.Contig3_All	Forward primer	CAACGGCAGCGTGAACAG
	Reverse primer	CACCAACCGAATCCAGAA
CL2703.Contig1_All	Forward primer	CACAACCAGGAGGACCATA
	Reverse primer	TCAGGAATGCCATCAAAGA
Unigene62526_All	Forward primer	CACCACCGAACTCACAAT
	Reverse primer	AACTGATGATTTGCTCCA
CL15005.Contig2_All	Forward primer	TTCTTCTTCCCTACTCCCTTC
	Reverse primer	CCTTTTGGATACATTCCCTTA

Table S2. Summary of small RNA sequencing data quality set.

	Flower		Fruit	
	Count	Percent (%)	Count	Percent (%)
Raw reads	13461290	100.00%	12824110	100.00%
Low quality	0	0.00%	0	0.00%
N%	0	0.00%	0	0.00%
3'adapter null or insert null	0	0.00%	0	0.00%
5'adapter contaminants	1869	0.01%	495	0.00%
PolyA T G C	3	0.00%	2	0.00%
Clean reads	13459418	99.99%	12823613	100.00%