



**Figure S1. The standardization of sequencing data.** (A) Original read count value boxplot. (B) Normalized read count value boxplot. (C) Original read count value density map. (D) Normalized read count value density map. (E) Principal component analysis of standardized read count values of two groups of samples, N for healthy controls and T for HCC group.

**Table S1. qRT-PCR primer sequences used in this study**

Gene name		Nucleotide sequence
has-miR-495-3p	Forward	5'-ACAAACATGGTGCACTTCTT-3'
	Reverse	5'-GTGCAGGGTCCGAGGT-3'
has-miR-337-3p	Forward	5'-CCUAUAUGAUGCCUUUCUUC-3'
	Reverse	5'-GTGCAGGGTCCGAGGT-3'
has-miR-4634	Forward	5'-CGGCGCGACCGGCCCGGGG-3'
	Reverse	5'-GTGCAGGGTCCGAGGT-3'
has-miR-1293	Forward	5'-GGTGGTCTGGAGATTTG-3'
	Reverse	5'-GAACATGTCTGCGTATCTC-3'
has-miR-136-5p	Forward	5'-CGCGACTCCATTTGTTTTGA-3'
	Reverse	5'-AGTGCAGGGTCCGAGGTATT-3'