

Supplementary Table S1. The clinical data of 20 people who participated in the NGS assessment of differential mRNA, lncRNA, and miRNA gene expression.

	Health (n = 10)	HCC (n = 10)
Age (years, mean ± SD)	36.70±7.32	66.40±10.84
Gender		
Male, n (%)	1 (10%)	8 (80%)
Female, n (%)	9 (90%)	2 (20%)

Supplementary Table S2. The clinical data of 160 individuals who had their transcript expression validated using real-time qPCR.

	Health (n = 100)	HCC (n = 60)
Age (years, mean ± SD)	38.19±8.50	65.40±10.03
Gender		
Male, n (%)	24 (24%)	48 (80%)
Female, n (%)	76 (76%)	12 (20%)

Supplementary Table S3. The primers sequences used in real-time quantitative polymerase chain reaction.

Targeted genes	Order	Sequences
XIST	forward	5'-ACGCTG CATGTGCCCTAG-3'
	reverse	5'-GAGCCT CTTATAAGCTGTTG-3'
ID1	forward	5'-GCAGGTAAACGTGCTGCTACGA-3'
	reverse	5'-CGAGTTCAGCTCCAATGAAGGTC-3'
IL-1 β	forward	5'-TCCATGTCCTTGACAAGGAGAAGAAAGT-3'
	reverse	5'-TCGCTTTCCATCTTCTTGGTAAT-3'
ANXA3	forward	5'-ACTGAGATCCTGTGTTAACCGAGCTT-3'
	reverse	5'-GGCTCGATGCAGTCTTCGG-3'
PER1	forward	5'-GCCTCGGTACCAGCCATTCC -3'
	reverse	5'-GGTGTGTGCCGCGTAGT-3'
FN1	forward	5'-CCAGCCTACGGATGACTC-3'
	reverse	5'-AATGACCAC TGCAAAGC-3'