

Figure S1. Kaplan-Meier analysis of overall survival of 14 downregulated lncRNAs (except for LINC00238) in liver cancer tumor tissues from the Gene Expression Profiling Interactive Analysis. lncRNAs, long non-coding RNAs.

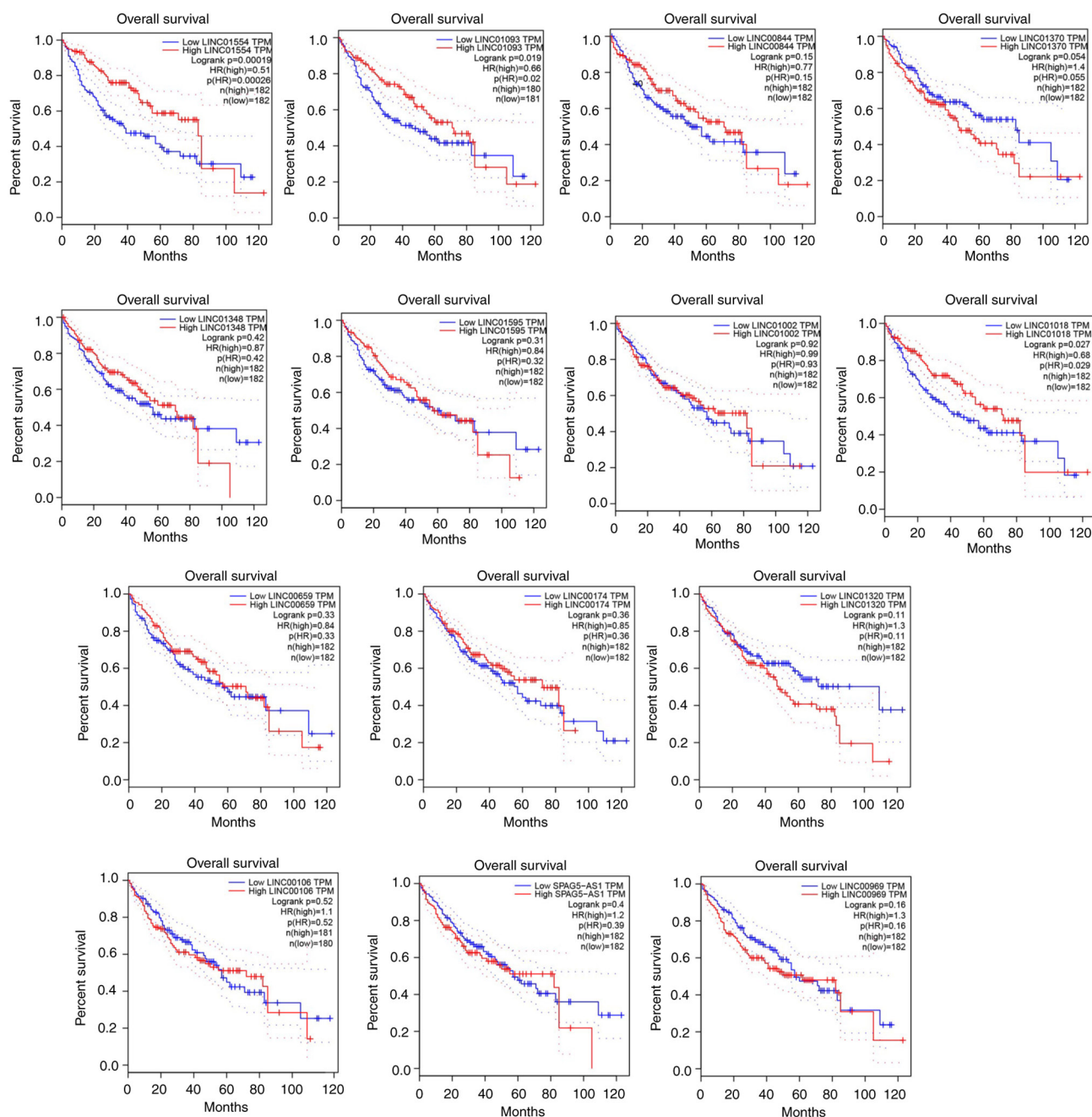


Table SI. Primer and shRNA targeting sequences.

Name	Sequence, 5'→3'
LINC00238 forward	GGAATCCTCGGTCATGGAGC
LINC00238 reverse	TTCCATCCTGCAAGTCTGCC
GAPDH forward	GACCCTTCATTGACCTCAAC
GAPDH reverse	CTTCTCCATGGTGGTGAAGA
OligodT-Adaptor	GCGAGCACAGAATTAATACGACTCACTATAGGTTTTTTTTTTTTTVN
miR-522 forward	AATGGTTCCCTTTAGAGTGT
miR-522 reverse	GCGAGCACAGAATTAATACGAC
U6 forward	CTCGCTTCGGCAGCACA
U6 reverse	AACGCTTCACGAATTTGCGT
scramble-shRNA	CCTAAGGTAAAGTCGCCCTCG
LINC00238 shRNA-target 1# ^a	CGGTCATGGAGCTCCTTAAGG
LINC00238 shRNA-target 2# ^b	GGATGGAAAGGAAAAGCAACA
LINC00238 shRNA-target 3# ^a	ATAACATCCTTCAGAATGATT

^a, targeting V1, V3 and V4; ^b, targeting V1 and V4. miR, microRNA; shRNA, short hairpin RNA.

Table SII. Screening of downregulated lncRNAs in HCC tissues by GEPIA.

Name	ID	Median tumor	Median normal	log ₂ FC	P _{adj}	Ref HCC	OS P-value
LINC01554 ^a	ENSG00000236882.7	1.42	69.25	-4.86	4.99x10 ⁻²⁶	2	0.00
LINC01093 ^a	ENSG00000249173.5	0.55	23.30	-3.97	3.78x10 ⁻⁸⁷	2	0.02
LINC01018 ^a	ENSG00000250056.5	5.58	19.17	-1.62	8.20x10 ⁻¹²	2	0.03
LINC01370 ^a	ENSG00000237767.1	0.53	6.56	-2.30	1.99x10 ⁻¹⁴	0	0.05
LINC00238 ^a	ENSG00000196553.13	0.19	3.30	-1.85	2.37x10 ⁻³⁴	0	0.10
LINC01320	ENSG00000228262.8	0.46	2.05	-1.06	1.73x10 ⁻⁰⁹	0	0.11
LINC00844	ENSG00000237949.1	5.59	37.98	-2.57	5.09x10 ⁻¹⁷	1	0.15
LINC00969	ENSG00000242086.8	15.97	33.29	-1.02	1.63x10 ⁻⁰³	0	0.16
LINC01595	ENSG00000259108.2	0.99	6.51	-1.92	1.21x10 ⁻¹⁴	0	0.31
LINC00659	ENSG00000228705.1	1.39	4.70	-1.26	2.20x10 ⁻¹⁴	0	0.33
LINC00174	ENSG00000179406.6	1.05	3.64	-1.18	4.56x10 ⁻¹⁹	1	0.36
SPAG5-AS1	ENSG00000227543.4	0.50	2.13	-1.06	1.73x10 ⁻²⁴	0	0.40
LINC01348	ENSG00000280587.1	1.20	8.65	-2.13	5.14x10 ⁻⁴²	0	0.42
LINC00106	ENSG00000236871.6	0.56	2.26	-1.06	1.09x10 ⁻¹²	0	0.52
LINC01002	ENSG00000282508.1	3.89	14.57	-1.67	1.84x10 ⁻¹¹	0	0.92

^a, five lncRNAs associated with OS time of patients after surgery. OS, overall survival; HCC, hepatocellular carcinoma; FC, fold-change; GEPIA, Gene Expression Profiling Interactive Analysis; lncRNA, long non-coding RNA.