

SUPPLEMENTARY TABLES

Supplementary Table 1. The sequences of shRNA target.

Clone name	Symbol	Target sequence
HSH011544-LVRU6GP-a (sh-NUDT1_1)	NUDT1	GGCAAAGTGCAAGAAGGAGAG
HSH011544-LVRU6GP-b (sh-NUDT1_2)	NUDT1	CGAGCCTGAGCTCATGGACGT
HSH011544-LVRU6GP-c (sh-NUDT1_3)	NUDT1	CACTCCTGCTTCAGAAGAAGA

Supplementary Table 2. Association of NUDT1 mRNA expression with clinicopathological characteristics of HCC (TCGA).

Clinical factors	NUDT1 level	Total	P-value	
Group	High(185)	Low(185)		
Gender				
Male	120(65%)	130(70%)	250	
Female	65(35%)	55(30%)	120	0.318
Age				
<50	37(20%)	33(19%)	70	
≥50	147(80%)	152(81%)	299	0.670
AFP				
<200	81(60%)	119(84%)	120	
≥200	54(40%)	23(16%)	77	1.424e-05*
Tumor_pathologic_stage				
Stage I-II	118(69%)	138(79%)	256	
Stage III-IV	53(31%)	37(21%)	90	0.038*
Tumor size				
T1-T2	129(70%)	146(79%)	275	
T3-T4	56(30%)	37(21%)	93	0.031*
Tumor metastasis				
M0	138(98%)	128(99%)	266	
M1	3(2%)	1(1%)	4	0.623
Tumor Nodes				
N0	124(98%)	128(99%)	252	
N1	3(2%)	1(1%)	4	0.368
Child pugh classification				
A	103(94%)	111(87%)	214	
B	7(6V)	15(12%)	22	0.181
C	0(0%)	1(1%)	1	
Height mean	166.21	168.48	0.051	
Grade				
G1	17(9%)	37(20%)	54	
G2	80(44%)	96(53%)	176	
G3	76(42%)	47(26%)	123	7.81E-05*
G4	10(5%)	2(1%)	12	
Vascular invasion				
Macro	11(7%)	5(3%)	16	0.005*

Micro	54(36%)	38(23%)	92	
Non_vascular_invasion	85(57%)	120(74%)	205	
Hepatic_infalmmation_adj_tissue				
Mild	44(41%)	54(43%)	98	
Severe	6(6%)	13(10%)	19	0.346
None	58(53%)	59(47%)	117	
Tumor status				
Tumor free	111(66%)	122(70%)	233	
With tumor	58(34%)	52(30%)	110	0.419

Abbreviations: AFP, alpha-fetoprotein determination.

*Statistical significance.

Supplementary Table 3. Cox proportional-hazard regression analysis for overall survival in TCGA dataset (HCC).

Variables	No.	Unvariable analysis		Multivariable analysis	
		HR (95%CI)	P	HR (95%CI)	P
Gender					
F	121	0.8851(0.6108-1.283)	0.52	0.7501(0.3693-1.523)	0.4262
M	247				
Age					
≤60	176	1.212(0.845-1.737)	0.297	1.5019(0.7576-2.977)	0.2441
>60	191				
AFP(ug/L)					
>20	131	1.794(1.143-2.816)	0.011	1.394(0.7190-2.703)	0.3254
≤20	146				
Tumor AJCC stage					
Stage I-II	255	2.541(1.731-3.731)	9.40E-07	1.0041(0.1040-9.698)	0.9972
Stage III-IV	89				
Tumor Size					
T1-T2	273	2.674(1.857-3.849)	1.23E-07	1.1398(0.1125-11.544)	0.9118
T3-T4	92				
Tumor metastasis					
M0	264	4.022 (1.264-12.8)	0.0185	3.9127(0.9533-16.059)	0.0583
M1	4				
Tumor Nodes					
N0	251	1.988(0.4872- 8.117)	0.338	NA	NA
N1	4				
Child pugh classification					
A	215	0.5516(0.2722-1.118)	0.0988	0.4125(0.1551-1.097)	0.076
B-C	22				