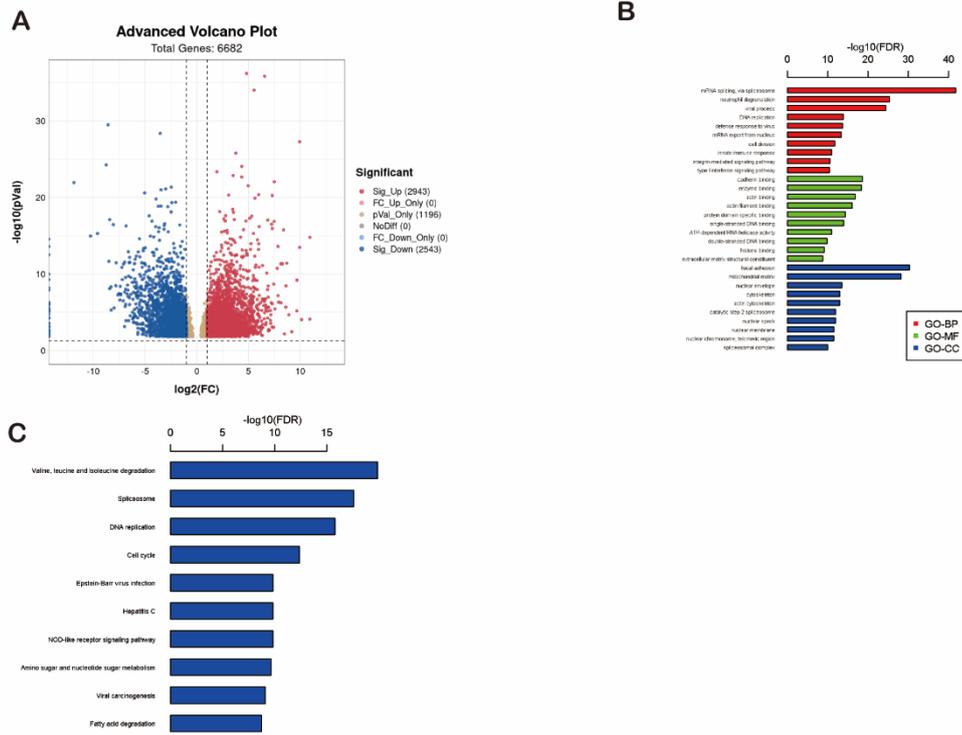


Figure S1



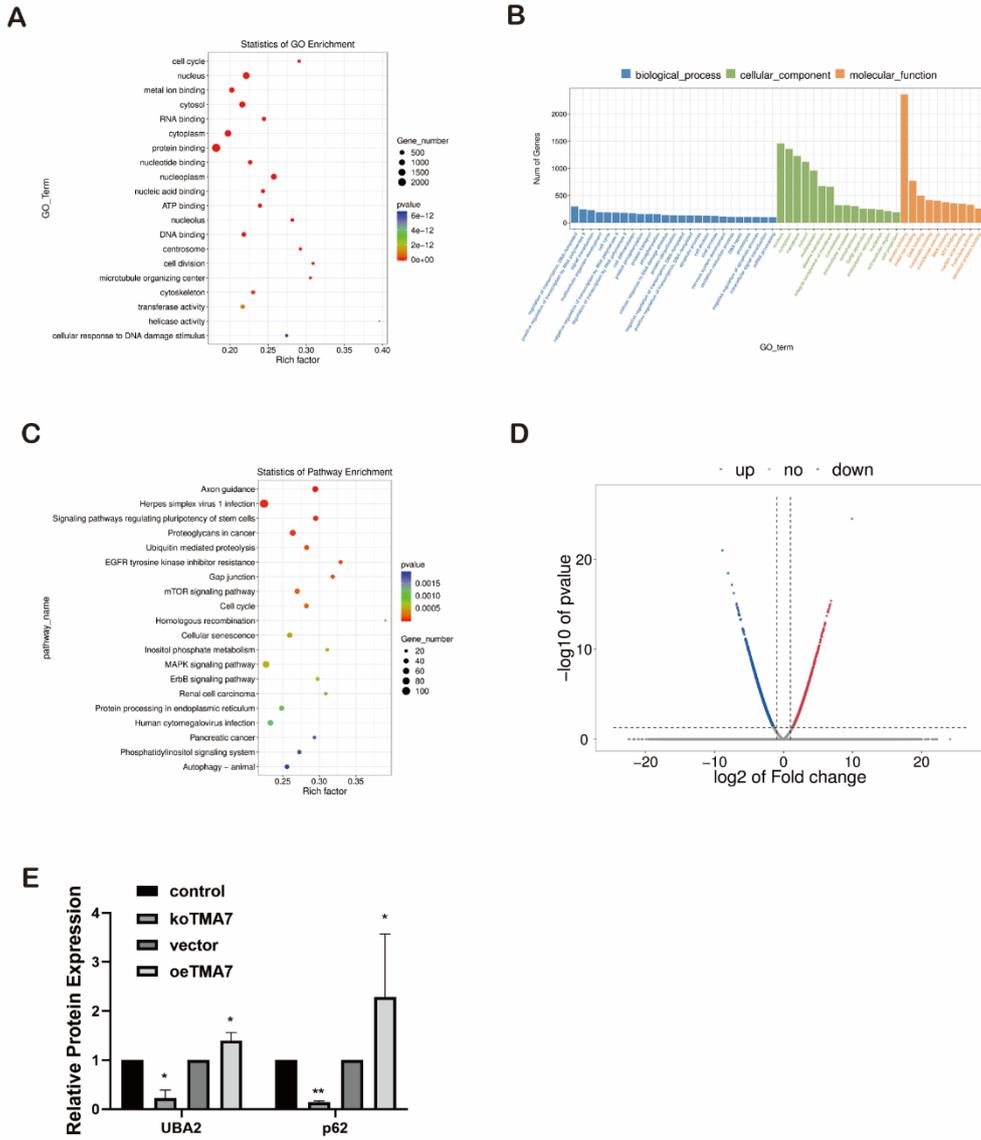
1

2 **Fig. S1 a** Transcriptomic volcano plot of differentially expressed genes. **b** and **c** Kegg

3 analysis and go analysis of differentially expressed genes in LSCC identified by multi-omics

4 analysis.

Figure S3



5

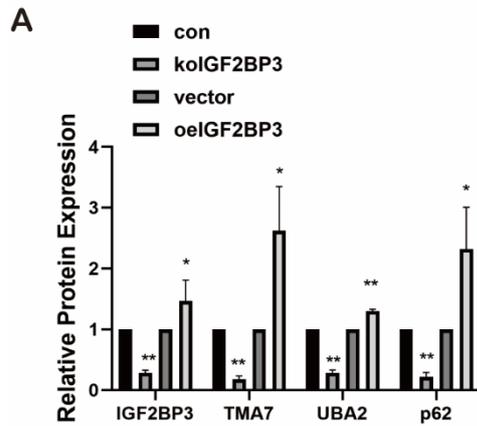
6 **Figure S3 a and b** Go analysis of differentially expressed genes in LSCC identified by multi-

7 omics analysis. **c** Kegg analysis of differentially expressed genes in LSCC identified by multi-

8 omics analysis. **d** Transcriptomic volcano plot of differentially expressed genes. **e** Relative

9 protein expression after TMA7-KD or TMA7-OE.

Figure S4



10

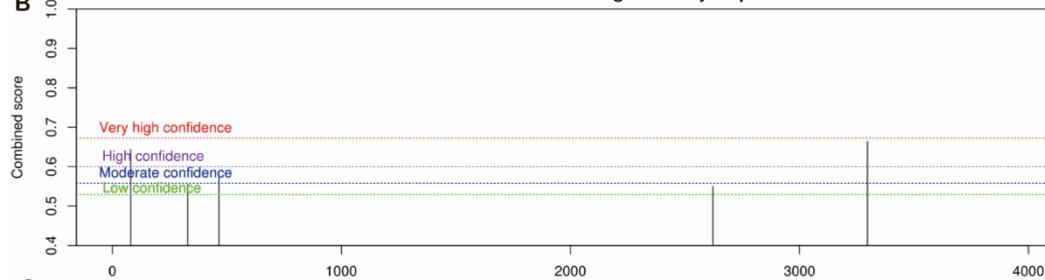
11 Fig. S4 a Relative protein expression after IGF2BP3-KD or IGF2BP3-OE.

Figure S5

A

#	Position	Sequence context	Structural context	Local structure visualization	Score(binary)	Score(knn)	Score(spectrum)	Score(combined)	Decision
1	80	UAAGU GUUCC GGAAC CGUGA GGACU GCGGG GACGG CGGGG UGGGG	PPBPP IPPPP PHHHH PPBPP PIPPP PPMPP PPBPP PPPPP PPPPM		0.707	0.774	0.543	0.644	m ⁶ A site (High confidence)
2	329	AACAA AAAGA GGAGC AGAAG AAACU CGAGG AGCUA AAAGC GAAGG	PBPPP PPIII PPPPP PPPPP PPPPP PPPPP BPPPI IIIPP PHHHH		0.592	0.594	0.500	0.555	m ⁶ A site (Low confidence)
3	465	AUGUC UUUUU CCUGC CUCCU GAACU GCGAG GUCUC GUUUU CCGAC	IPPPP PMPPP PPIPP BPPPP PMMMM PPPPH HHPPP PPMMP PPIPP		0.613	0.646	0.510	0.573	m ⁶ A site (Moderate confidence)
4	2622	AACAU GGCAG UUAAG AAUGU GGACU UUGAA GUCAG AUGAC UCAGG	BBBBB PPIII PPPPP PPIPP PPNMM MMPPP PPPMM PPPII IPPPP		0.717	0.548	0.320	0.550	m ⁶ A site (Low confidence)
5	3297	CUCAG AAAAA AAAAA AAAAA GGACU UCUUU UUCUG UAAAA UGGGU	MMMMM MMMMM MMMMM MMMMM PPPPP PNNMM MPPPP PIIII PPPPP		0.700	0.753	0.604	0.664	m ⁶ A site (High confidence)

B Prediction Score Distribution along the Query Sequence



C

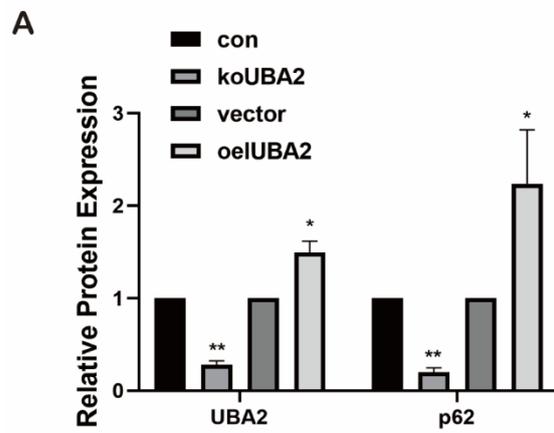
Log Likelihood Ratio: 64 [?](#) Information Content: 30.4 [?](#) Relative Entropy: 31 [?](#) Bayes Threshold: 10.014 [?](#)

Name ?	Start ?	p-value ?	Sites ?
1. NC_000003.12:48440257-48444208	347	6.84e-11	AGCUAAAAAGC GAAGGCCGCGGGGAAGGGGC CCUUGGGUAA
1. NC_000003.12:48440257-48444208	76	9.50e-11	CCGGAACCGU GAGGACUGCGGGACGGCGG GGUGGGGACC
1. NC_000003.12:48440257-48444208	193	3.47e-10	AGGCCAAGGA GAUGGACGAGGUAGGGCGG GC CGCGGAGGC

12

13 Fig. S5 a, b and c Bioinformatic prediction of m6A modification in 3'-UTR of TMA7 mRNA.

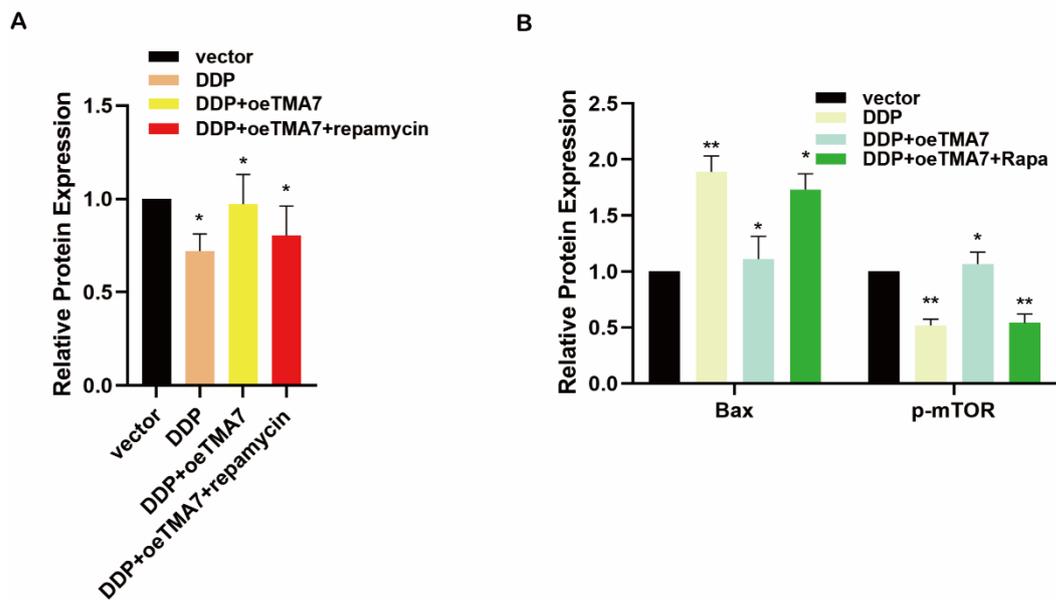
Figure S6



14

15 Fig. S6 Relative protein expression after UBA2-KD or UBA2-OE.

Figure S9



16

17 Fig. S9 Relative protein expression after the cells were treated with DDP TMA7-OE,

18 rapamycin.

19

Supplementary Table 2 Primers used for RT-qPCR

Primers used for RT-qPCR

GAPDH F	5'-CGGATTTGGTCGTATTGGG-3'
GAPDH R	5'-CCTGGAAGATGGTGATGGG-3'
IGF2BP3 F	5'-GCACTTCCCTTTGTTGTAGTC-3'
IGF2BP3 R	5'-AGCACTTCCCTTAGGTTACTC-3'
TMA7 F	5'-GAAGGCCGCGGGGAAG-3'
TMA7 R	5'-GTCACCATCTCCTCAGGCAC-3'
UBA2 F	5'-CACAGGTTGCCAAGGAA-3'
UBA2 R	5'-GCACTCATAACACTCGGTCA-3'

20

21 **Supplementary Table 2** These are the primers used for RT-qPCR