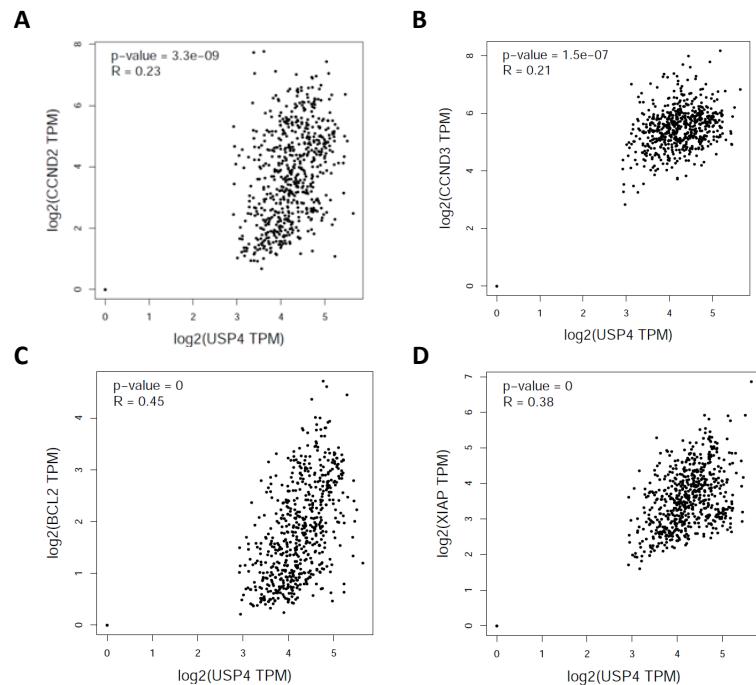
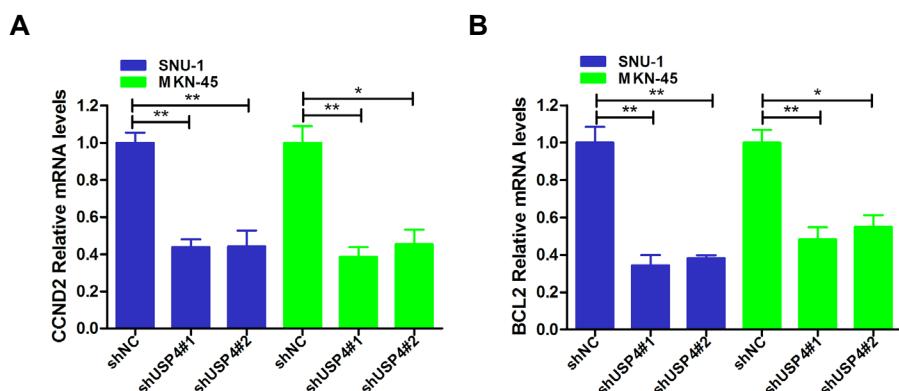


Supplementary materials:



Supplementary Fig. 1. The expression of USP4 is positively correlated with the target genes of NF- κ B signaling in gastric cancer. The correlation analysis between USP4 and CCND2 (A), CCND3 (B), BCL2 (C) or XIAP (D) in stomach cancer is analyzed by GEPIA 2 database (<http://gepia2.cancer-pku.cn/>).



Supplementary Fig. 2. Downregulation of USP4 inhibits the expression of CCND2 and BCL2 in gastric cancer. SNU-1 and MKN-45 cells were infected with shNC, shUSP4#1 or shUSP4#2-derived lentivirus for 3 days, and cells were prepared for qRT-PCR analysis against CCND2 (A) and BCL2 (B). GAPDH was used as an internal control. * $p < 0.05$, ** $p < 0.01$.

Supplementary Table 1. Case information.

Variables	Case (N)
Age	
≤ 60 years	7
> 60 years	5
Gender	
Female	8
Male	4
N status	
N0	4
N1	3
N2	3
N3	2
Stage	
I	1
II	4
III	5
IV	2