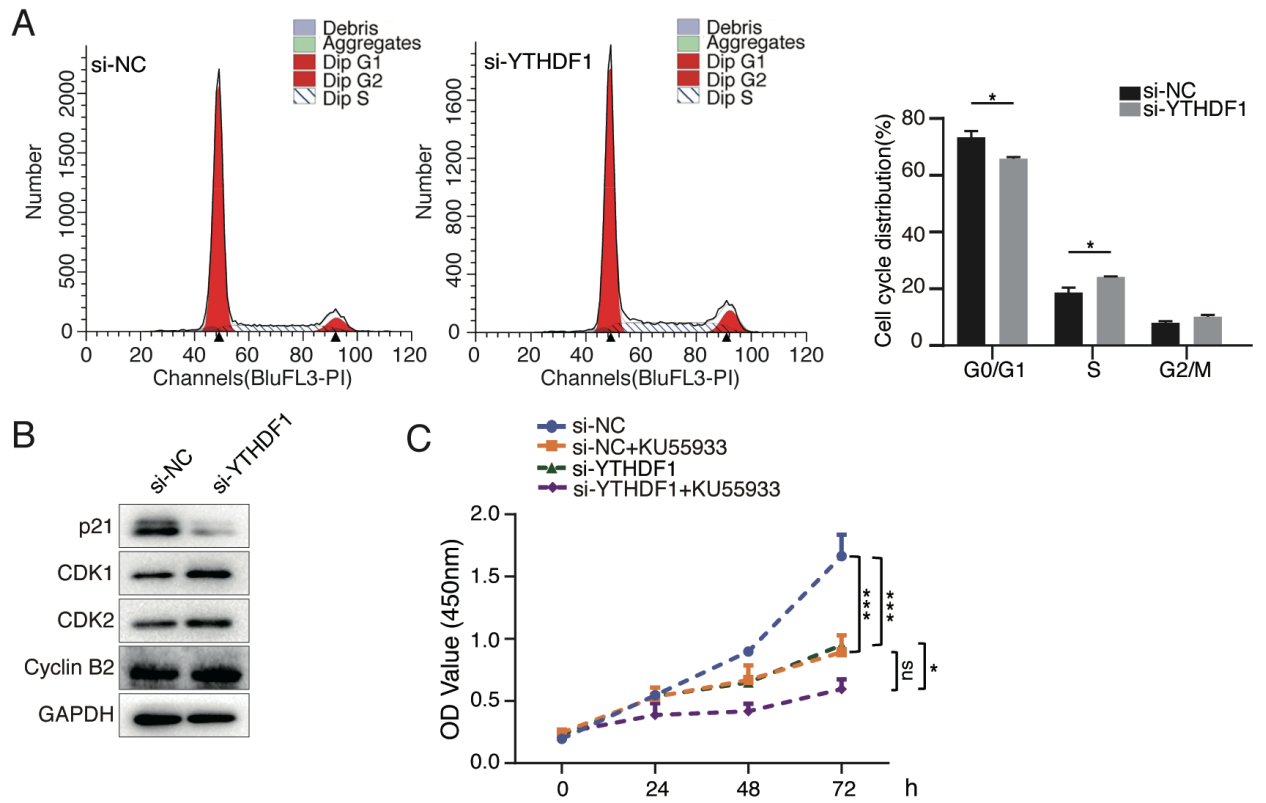


**Supplementary Table S1. Sequences of siRNA and shRNA**

Name	sequences
si-NC	sense 5'-UUCUCCGAACGUGUCACGUTT-3' antisense 5'-ACGUGACACGUUCGGAGAATT-3'
si-FTO	sense 5'-GGUGCUCCGUGAAGUAAAATT-3' antisense 5'-UUUAACUUCACGGAGCACCTT-3'
si-YTHDF1	sense 5'-GGAUACAGUUCAUGACAAUTT-3' antisense 5'-AUUGUCAUGAACUGUAUCCTT-3'
si-YTHDF2	sense 5'-CUGCUUAUCGUUCCAUGAATT-3' antisense 5'-UUCAUGGAACGAUAAGCAGTT-3'
si-YTHDF3	sense 5'-CAAUUCAAGGGACACUCAATT-3' antisense 5'-UUGAGUGUCCCUUGAAUUGTT-3'
si-eIF3A	5'- CAGTTGATGGCAAATTACT -3'
LV3-sh-NC	5'-TTCTCCGAACGTGTCACGT-3'
LV3-sh-Mettl3	5'-GGGCCCAAGTGCAAGAATTCT-3'

**Supplementary Table S2. Primer sequences for qRT-PCR**

Name	sequences
<i>ACTIN</i>	Forward 5'-GAGCTACGAGCTGCCTGACG-3' Reverse 5'-GTAGTTTCGTGGATGCCACAG-3'
<i>ATM</i>	Forward 5'-ATCTGCTGCCGTCAACTAGAA-3' Reverse 5'-GATCTCGAATCAGGCGCTTAAA-3'
<i>YTHDF1</i>	Forward 5'-ACCTGTCCAGCTATTACCCG-3' Reverse 5'-TGGTGAGGTATGGAATCGGAG-3'
<i>YTHDF2</i>	Forward 5'-AGCCCACTTCCTACCAGATG-3' Reverse 5'-TGAGAACTGTTATTTCCCATGC-3'
<i>YTHDF3</i>	Forward 5'-TCAGAGTAACAGCTATCCACCA-3' Reverse 5'-GGTTGTCAGATATGGCATAGGCT-3'
<i>eIF3A</i>	Forward 5'-GCCGAAAATGCCCTCAAAC-3' Reverse 5'- TGGTTCGTGTATCTTTTGCCAT-3'
<i>METTL3</i>	Forward 5'-TTGTCTCCAACCTCCGTAGT-3' Reverse 5'- CCAGATCAGAGAGGTGGTGTAG-3'



Supplementary Figure 1. (A and B) SGC7901 cells were transfected with siRNAs (siNC and siYTHDF1) and cultured to a predetermined time, and cell cycle was assayed by flow cytometry. Western blot was used to test the indicated proteins. (C) SGC7901 cells (sh-NC and sh-YTHDF1) were cultured to a predetermined time in the presence or absence of the ATM inhibitor KU55933 (10  $\mu$ M), and then CCK8 assay was performed. Mean  $\pm$  SD of three independent experiments. Two-tailed unpaired t test. \* $p < 0.05$ , \*\*\* $p < 0.001$ .