Figure Legend:



**Figure S1 Data-based Prediction Discovery of m6A Binding Sites on OTUD7B mRNA**

Sequence details of the m6A binding sites located at site1829, site1856, site 2146, and site 2762 are provided.

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**Figure S2. Identification of m6A Modification Sites and Determination of their Roles in OTUD7B Stability and Translation Efficiency. A**: Gene-specific m6A-PCR evaluation of the m6A modification levels on the OTUD7B transcript in TE-8 cells transfected with WT, 1829mut, 1856mut, 2146mut, and 2762mut. **B-C**: OTUD7B expression assessed by qRT-PCR (**B**) and western blotting (**C**) in cells transfected with WT, 1829mut, 1856mut, 2146mut, and 2762mut. **D**: Determination of the degradation rate of OTUD7B mRNA at various time points by RT-qPCR after mutation of site 2762 in OTUD7B of TE-8 cells, followed by treatment with actinomycin D (Act D, 5 μg/mL). **E**: Co-immunoprecipitation-based confirmation of the direct interaction between OTUD7B and YTHDF1 in TE-8 cells transfected with FLAG-tagged OTUD7B or FLAG-tagged OTUD7B 2762mut along with HA-tagged YTHDF1. Data are expressed as mean ± SEM, n=3; \*\**p*＜0.01,\*\*\**p*＜0.001.