

Figure S1. The transfection efficiency of METTL3 siRNA and overexpression plasmids. (A and B) The results of reverse transcription-quantitative PCR and western blot assays identified that METTL3 siRNA significantly suppressed the mRNA and protein expression level of METTL3 in bladder cancer cells, while the overexpression plasmid promoted the expression level of METTL3. \* $P < 0.05$  and \*\* $P < 0.01$ . METTL3, methyltransferase-like 3; OE, overexpression.

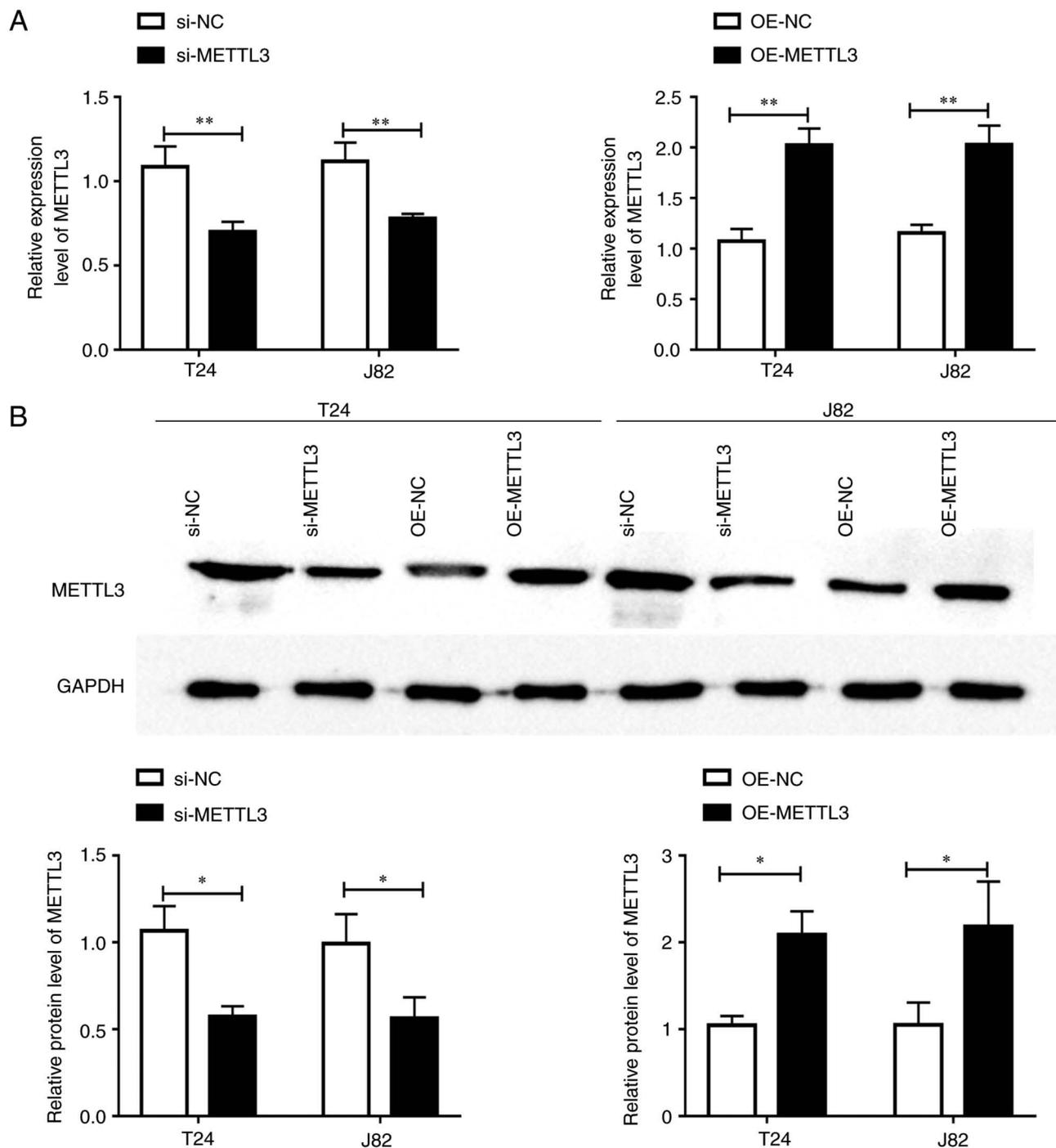


Figure S2. Overexpression of METTL3 significantly promotes the proliferation, migration and invasion of BCa cells. (A) Proliferation of cells was detected using Cell Counting Kit-8 assay following the overexpression of METTL3 in BCa cells. (B) Proliferation cells was detected using EdU assay following the overexpression of METTL3 in BCa cells. (C) Migration of cells was detected using Transwell assay following the overexpression of METTL3 in BCa cells. (D) Invasion of cells was detected by Transwell assay following the overexpression of METTL3 overexpression in BCa cells was detected by Transwell assay. (E and F) Cell cycle and apoptosis were detected using flow cytometry following the METTL3 overexpression in BCa cells. \* $P < 0.05$ , \*\* $P < 0.01$  and \*\*\* $P < 0.001$ . ns, no significant difference; METTL3, methyltransferase-like 3; EdU, 5-ethynyl-2'-deoxyuridine; BCa, bladder cancer; OE, overexpression.

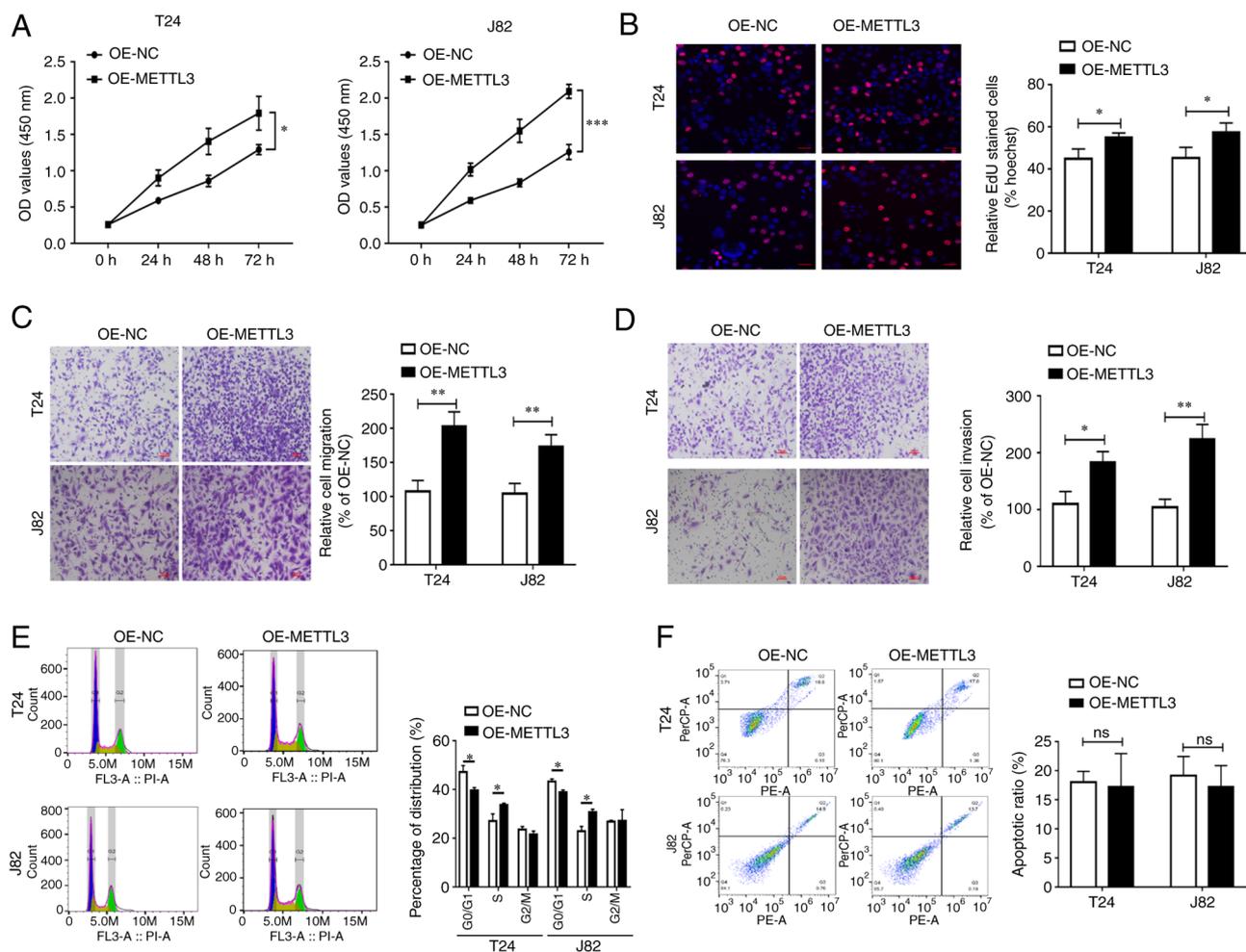


Figure S3. The correlation between all N6-methyladenosinerecognition proteins expression levels and RRAS in BCa tissues. RRAS, RAS related; IGF2BP, insulin-like growth factor-2 mRNA-binding protein; YTHDF, YTH N<sup>6</sup>-methyladenosine RNA binding protein; EIF3A, eukaryotic initiation factor 3A; HNRNPA2B1, heterogeneous nuclear ribonucleoprotein A2/B1.

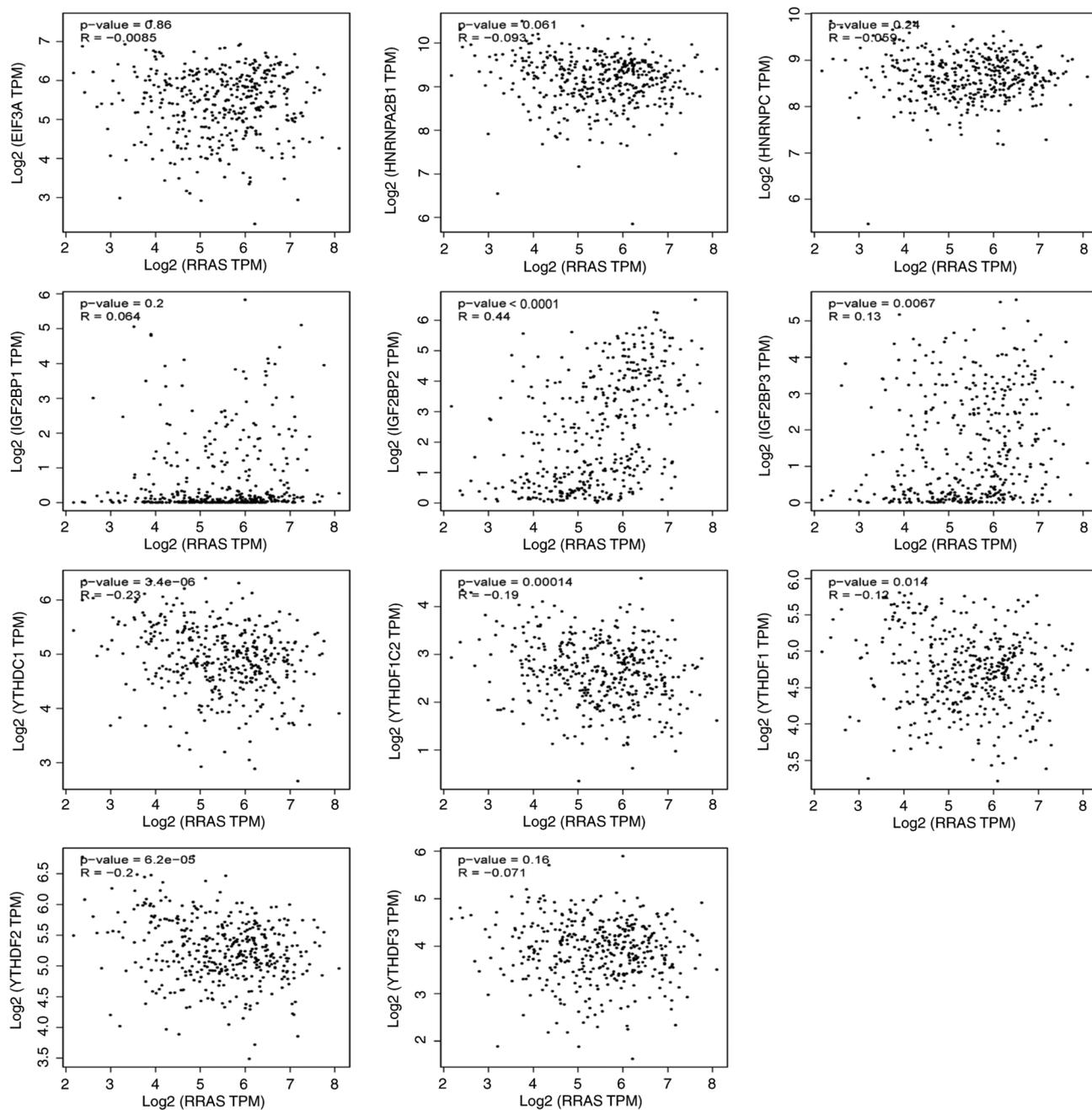


Figure S4. The expression levels of N6-methyladenosine recognition proteins in bladder cancer analyzed using The Cancer Genome Atlas database. IGF2BP, insulin-like growth factor-2 mRNA-binding protein; YTHDF, YTH N6-methyladenosine RNA binding protein. \*P<0.05 and \*\*\*P<0.001.

