Figure S1. Proliferation and apoptosis of Hs 38.T and PA-1 cells. (A) Kaplan-Meier analysis demonstrated the effects of miR-214-5p expression modulation on survival rate of patients with IOT. (B) Cell Counting Kit-8, (C) colony formation and (D) EdU assays measured Hs 38.T and PA-1 cell proliferation abilities. Magnification, x200. (E) Flow cytometry and (F) TUNEL assays assessed Hs 38.T and PA-1 cell apoptosis ability. Magnification, x200. (G) Western blot analysis examined apoptosis-associated protein expression levels in Hs 38.T and PA-1 cells. **P<0.01. miR, microRNA; OD, optical density; PI, propidium iodide; TUNEL, terminal-deoxynucleotidyl transferase mediated nick end labeling.

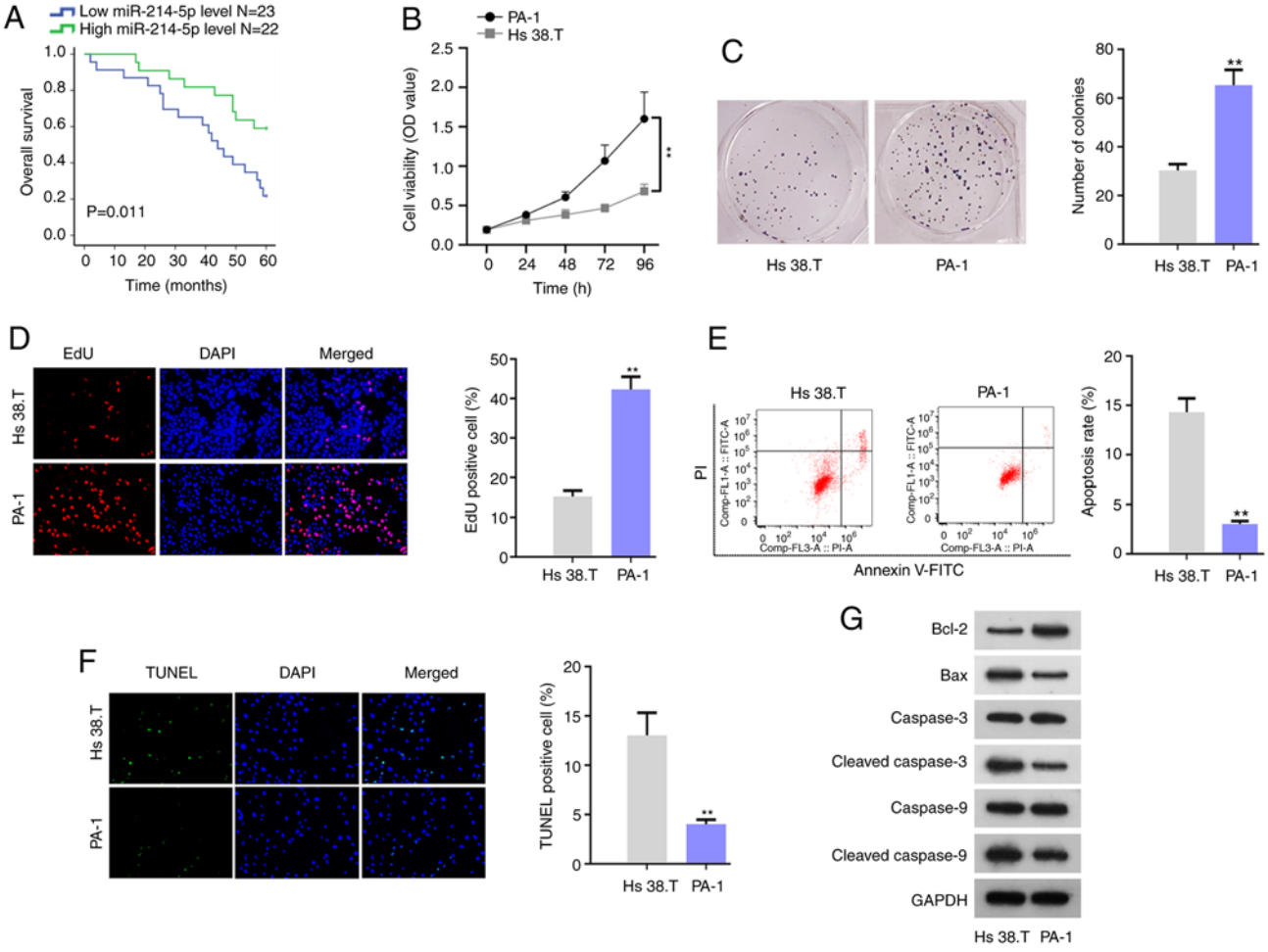

Figure S2. ceRNA network formed by LINC00324, miR-214-5p and four mRNAs. (A) The effects of LINC00324 expression changes on the prognosis of patients with IOT was examined using Kaplan-Meier analysis. (B) Subcellular fractionation assay exhibited the distribution of LINC00324 in PA-1 cells. 18S and U2 were used as cytoplasmic and nuclear controls, respectively. (C) Fluorescence *in situ* hybridization demonstrated the co-localization of LINC00324 and miR-214-5p in PA-1 cells. (D) Reverse transcription-quantitative PCR using 45 IOT tissues suggested that LINC00324 was negatively correlated with miR-214-5p. (E) The binding sites of miR-214-5p with CDK6, MDM2, MDM4 and CCND1 were indicated. (F) The significance of CDK6, MDM2, MDM4 and CCND1 expression changes in prognosis of patients with IOT was demonstrated by Kaplan-Meier method. PI, propidium iodide; miR, microRNA; CDK6, cyclin dependent kinase 6; MDM4, mouse double minute 4; MDM2, murine double minute homolog 2; CCND1, cyclin D1; WT, wild-type; MUT, mutant; IOT, immature ovarian teratocarcinoma.

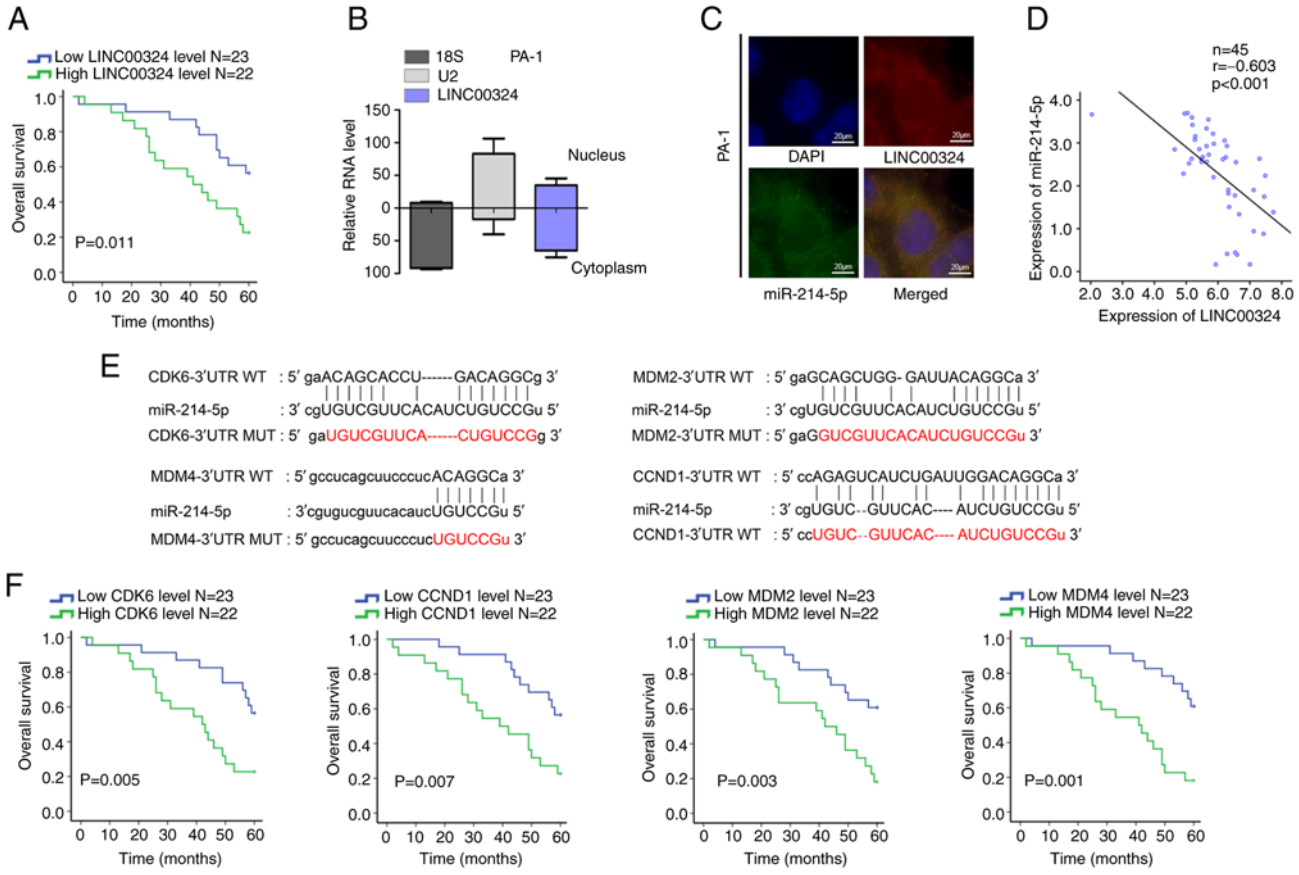

Figure S3. Transfection efficiency for MDM4, MDM2, CCND1 and CDK6. (A-E) The knockdown efficiency of CDK6, MDM2, MDM4 and CCND1 was examined by RT-qPCR and western blot analysis. (F-J) The overexpression efficiency of CDK6, MDM2, MDM4 and CCND1 was examined by RT-qPCR and western blot analysis. **P<0.01. CDK6, cyclin dependent kinase 6; MDM4, mouse double minute 4; MDM2, murine double minute homolog 2; CCND1, cyclin D1; RT-qPCR, reverse transcription-quantitative PCR; n.s., not significant; sh, short hairpin; NC, negative control.

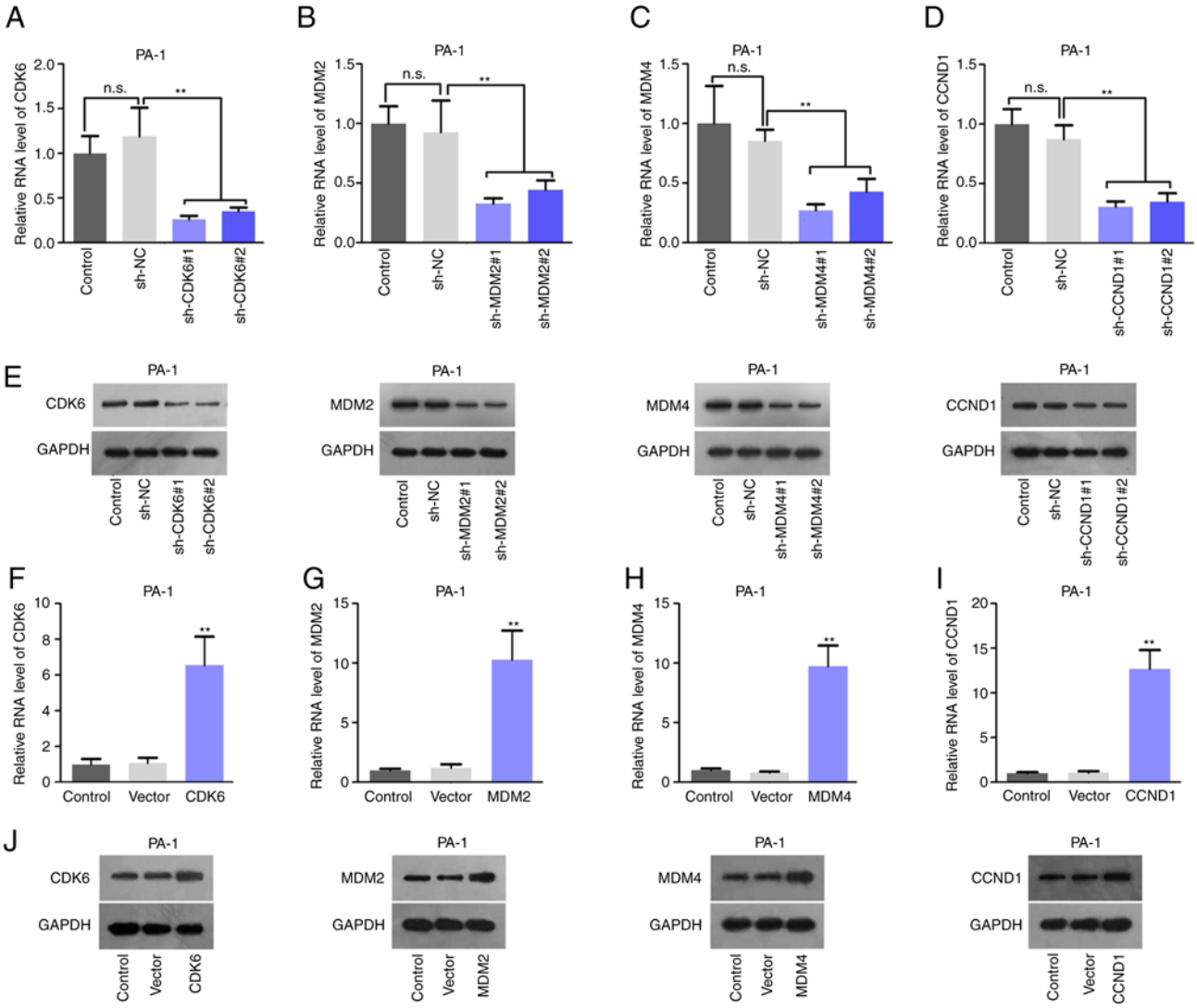

Figure S4. Molecular mechanism underlying the carcinogenic function of LINC00324 in immature ovarian teratocarcinoma. CDK6, cyclin dependent kinase 6; MDM4, mouse double minute 4; MDM2, murine double minute homolog 2; CCND1, cyclin D1; miR, microRNA.