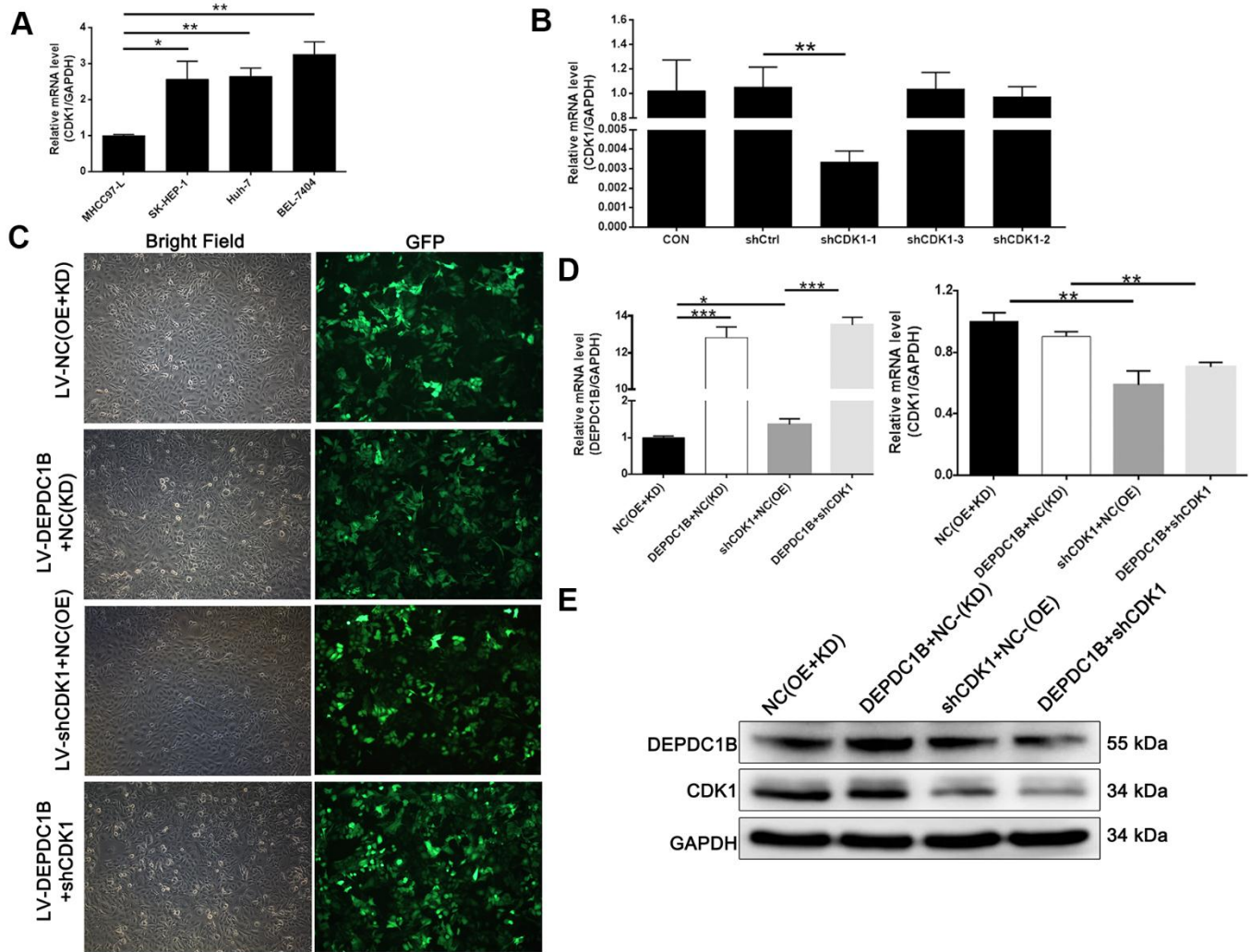


SUPPLEMENTARY FIGURE



Supplementary Figure 1. Successful establishment of CDK1 knockdown and DEPDC1B overexpression. (A) Compared with the MHCC97-L cells, CDK1 is highly expressed in SK-HEP-1, Huh-7 and BEL-7404 cells ($P < 0.05$). (B) The results of qRT-PCR show that, in SK-HEP-1 cells, after the infection of lentivirus, compared with the shCtrl group: The knockdown efficiency of CDK1 in shCDK1-1 group is 99.7% ($P < 0.01$). (C) The fluorescence of cells, which were infected with 4 groups for 72 h, observed by microscope demonstrates a $>80\%$ efficiency of infection and the normal cell condition. (D) After infection, compared to NC group: DEPDC1B mRNA level of DEPDC1B+NC(KD) group increased obviously ($P < 0.001$), but CDK1 mRNA level had no significant change, and DEPDC1B mRNA level of shCDK1+NC(OE) group increased obviously ($P < 0.05$), but CDK1 mRNA level decreased obviously ($P < 0.01$). Compared to DEPDC1B+NC(KD) group, DEPDC1B mRNA level of DEPDC1B+shCDK1 group had no significant change, but CDK1 mRNA level decreased obviously ($P < 0.01$). Compared with shCDK1+NC(OE) group, DEPDC1B mRNA level of DEPDC1B+shCDK1 group increased obviously ($P < 0.001$), but CDK1 mRNA level had no significant change. (E) The results of Western blot show that, compared to NC group: DEPDC1B protein level of DEPDC1B+NC(KD) group increased obviously, CDK1 protein level had no significant change, and DEPDC1B protein level of shCDK1+NC(OE) group increased obviously, but CDK1 protein level decreased obviously. Compared with DEPDC1B+NC(KD) group, DEPDC1B and CDK1 protein level of DEPDC1B+shCDK1 group decreased obviously. Compared to shCDK1+NC(OE) group, DEPDC1B and CDK1 protein level of DEPDC1B+shCDK1 group decreased obviously. *: $P < 0.05$. **: $P < 0.01$. ***: $P < 0.001$.