

Figure supplement 1-3

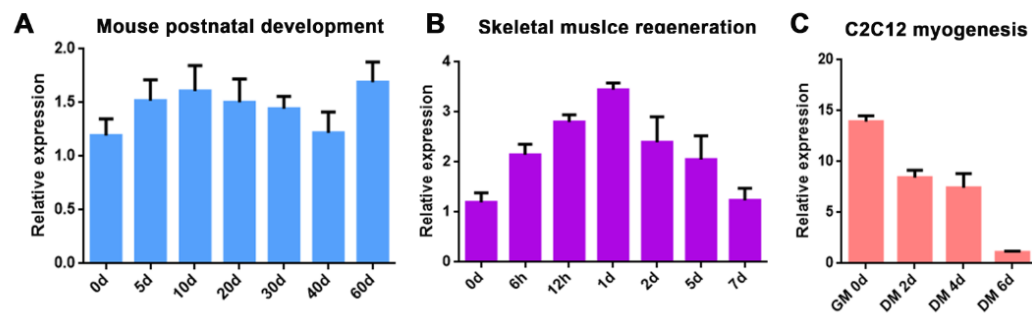


Figure S1. The temporal expression patterns of Hipk2. The expression of Hipk2 (A) during postnatal development in the hind leg muscles of C57BL/6 mice, (B) during CTX-induced TA muscle regeneration and (C) in C2C12 myogenesis.

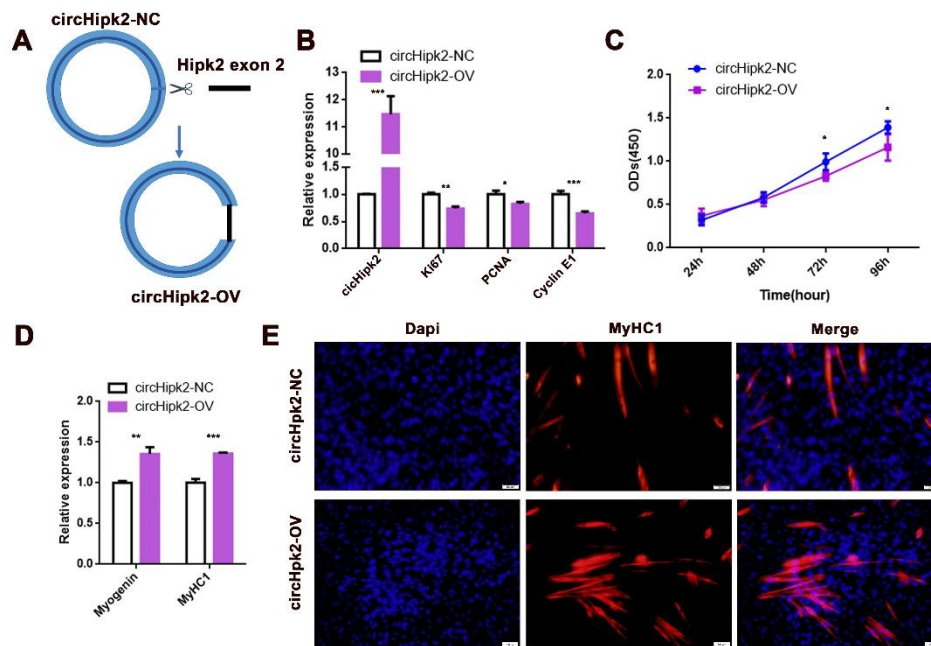


Figure S2. Overexpression of circHipk2 prevents C2C12 myoblasts proliferation but promotes differentiation. (A) Schematic diagram of the efficiency of circHipk2 overexpression vector construction. (B) The expression of proliferation and cell cycle markers was quantitated by RT-qPCR in C2C12 myoblasts after transfection with circHipk2-OV or circHipk2-NC. (C) Cell proliferation was assessed using the CCK-8 assay after transfection with circHipk2-OV or circHipk2-NC. (D) The expression of myogenic differentiation markers was quantitated by RT-qPCR in C2C12 myoblasts after transfection with circHipk2-OV or circHipk2-NC. Data are presented as the mean \pm S.D. N=3 per group. * P < 0.05 and ** P < 0.01. (E) Immunofluorescence analysis of MyHC1 cells (red) after transfection with circHipk2-OV or circHipk2-NC in C2C12 myoblasts.; the scale bars represent 100 μ m.

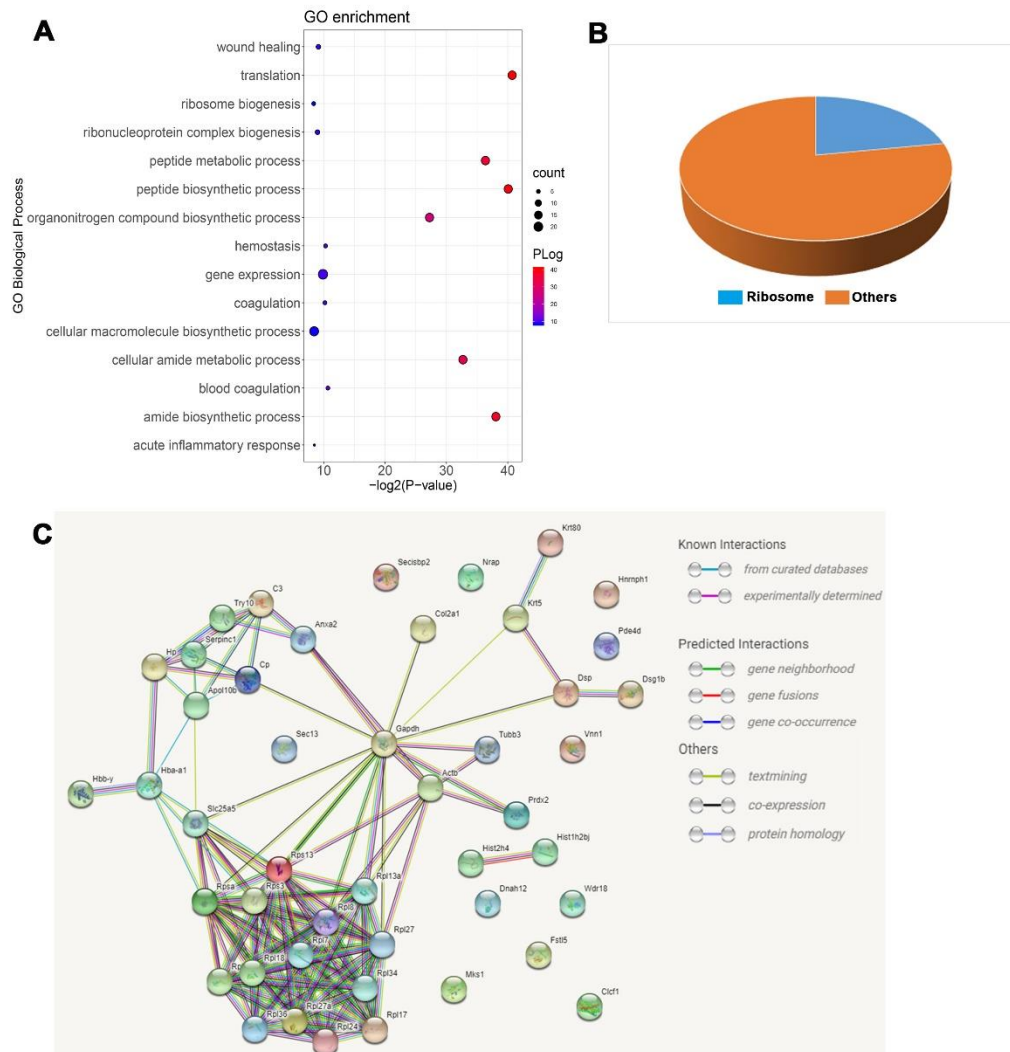


Figure S3. Identification of circHippk2 binding proteins. (A) GO analyses of circHippk2 pull down proteins. (B) Summary of circHippk2 binding proteins according to KEGG pathway analysis and published functions. (C) The interaction between circHippk2 binding proteins.