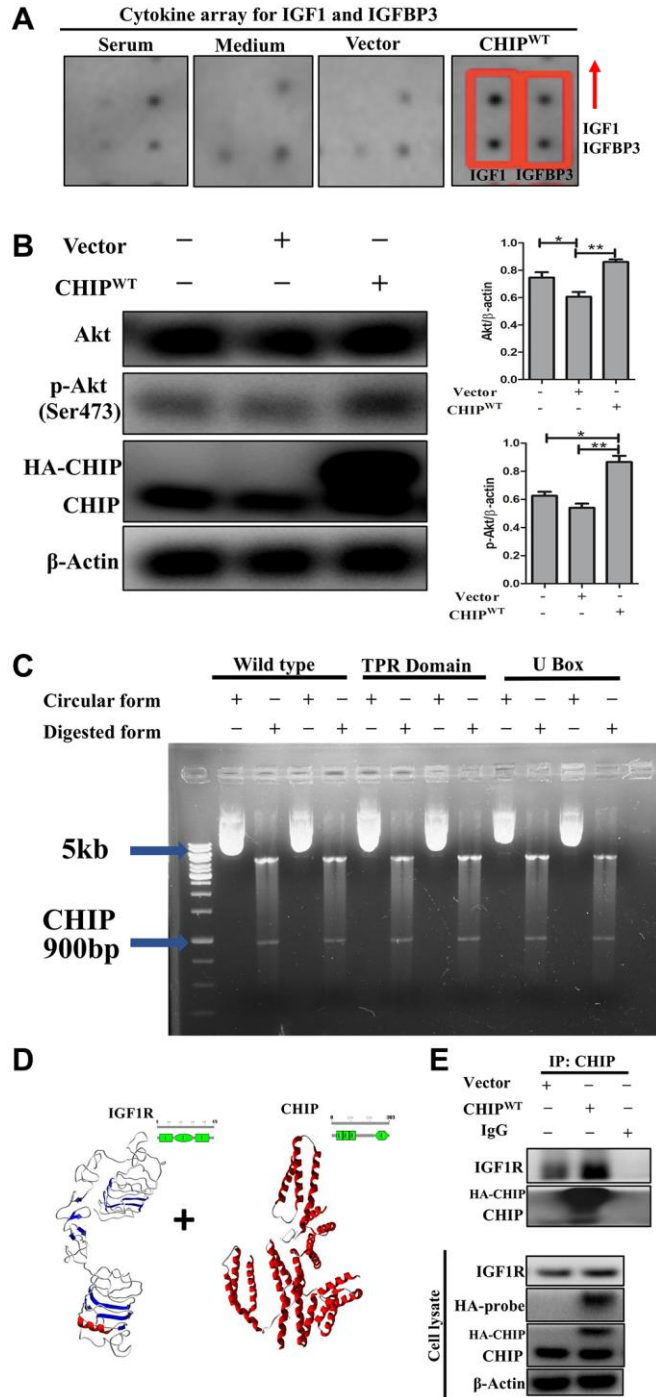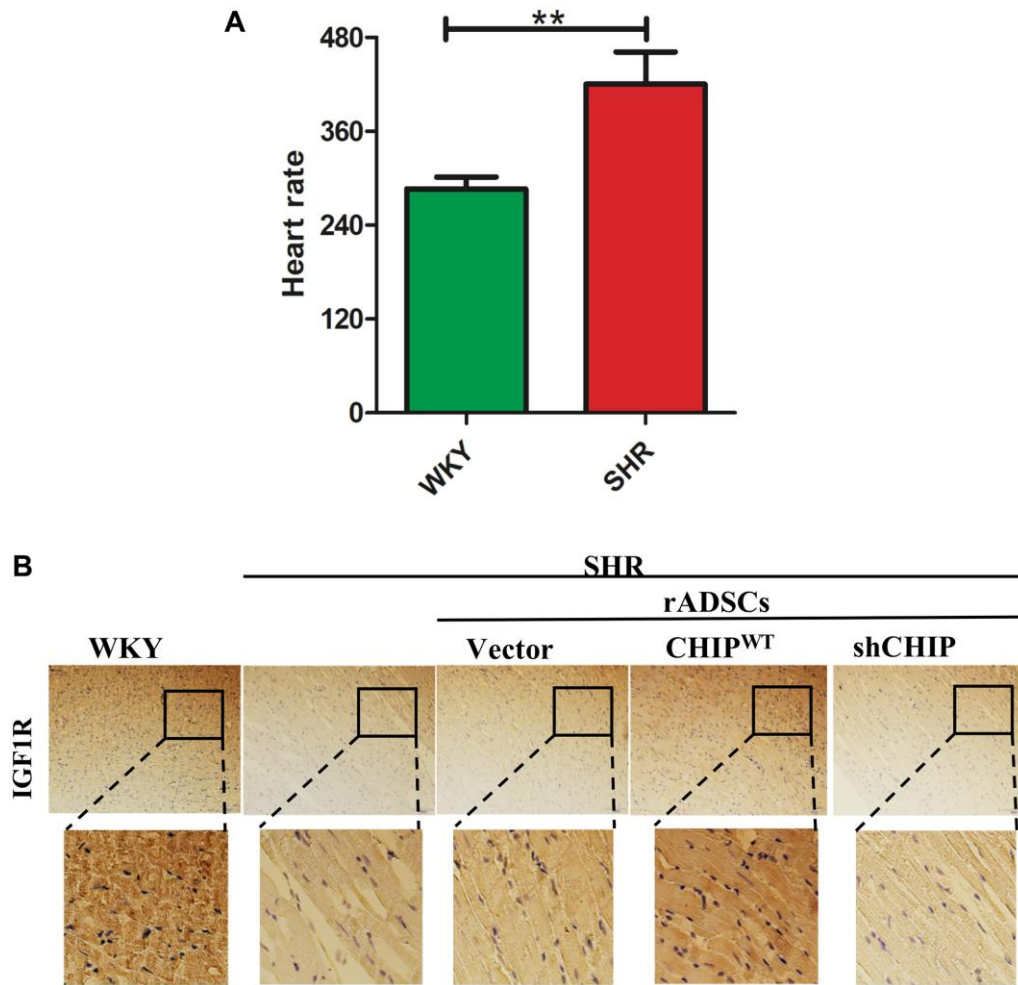# SUPPLEMENTARY FIGURES

Supplementary Figure 1. Effects of CHIP overexpression on IGF1 secretion, size confirmation of wild-type and mutant forms, the PDB structure of IGF1R and CHIP co-chaperone. (**A**) Cytokine array to determine the secretion level of IGF1 and IGFBP3 in the medium of different treatment groups. (**B**) The immunoblot data indicated AKT and pAKT expression levels after overexpression of HA-vector/HA-CHIP wild-type for 24 h in rADSCs. Values represent as mean ± SEM (N = 3; $^*p < 0.05$; $^{**}p < 0.01$ indicate significant differences). (**C**) The agarose gel electrophoresis data showed the CHIP plasmid enzymatic digestion of wild-type and two mutant forms. (**D**) The PDB structures of IGF1R and CHIP protein. (**E**) Co-IP was done by transfection of HA-vector/HA-CHIP wild-type for 24 h and measured by immunoblotting.

Supplementary Figure 2. Heart rate analysis and IGF1R immunohistochemistry of WKY, SHR and SHR-treated groups. (**A**) Heart rate analysis was performed by tail-cuff method for the WKY and SHR rats before treatment. Values represent as mean ± SEM (N = 7; $^*p$ < 0.05; $^{**}p$ < 0.01 indicate significant differences). (**B**) Immunohistochemistry for IGF1R expression of different experimental groups.