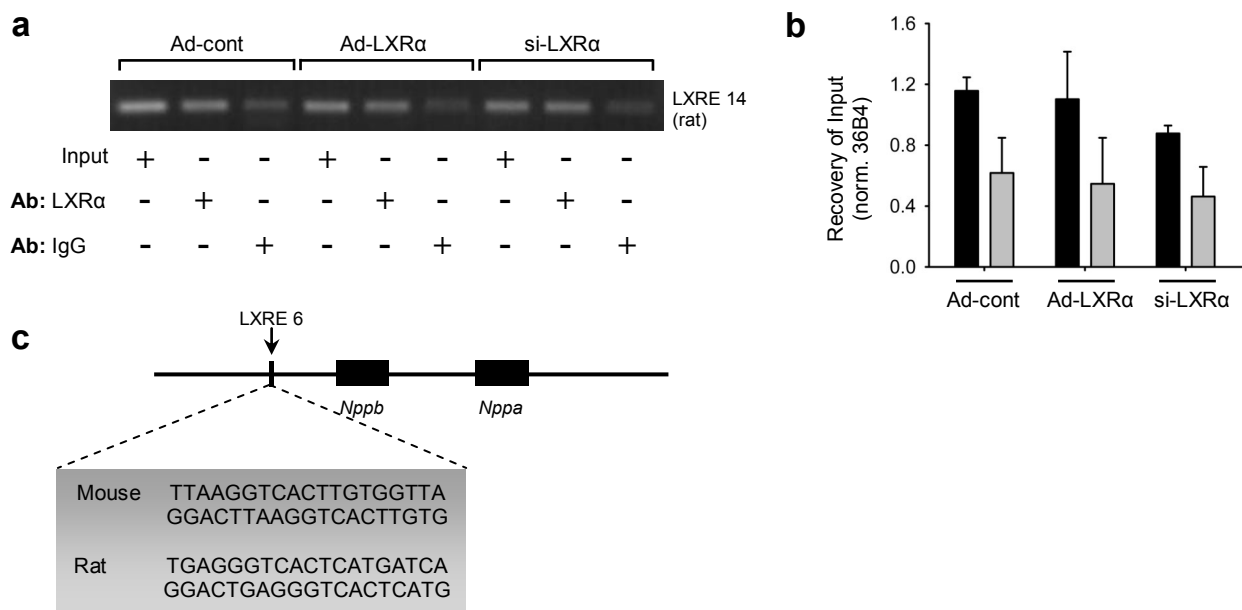




ESM Fig. 4

LXRα is recruited to the ANP/BNP region in rat cardiomyocytes. (a) Chromatin immunoprecipitation assays were performed using isolated rat cardiomyocytes to analyze the ANP/BNP region. Rat cardiomyocytes were transfected with Ad-LXRα or si-LXRα to cause LXRα overexpression and deficiency, respectively. The results are for LXRE 14 and are representative of two independent cardiomyocyte isolations. (b) Quantification of the RT-PCR fragments were analyzed from gel electrophoresis. Ab: LXRα (black bars), Ab: IgG (gray bars). Non-specific IgG antibodies served as negative control. (c) Location of LXRE 6 is ~22 kb upstream of the ANP (*Nppa*) transcription start site, and ~6.5 kb upstream of BNP (*Nppb*) promoter. LXRE 6 binding site sequences were identified using the JASPAR database, and analysis revealed a highly conserved double binding site sequence for both the rat and mouse. Ab, antibody; mu, murine.