

Supplementary Materials

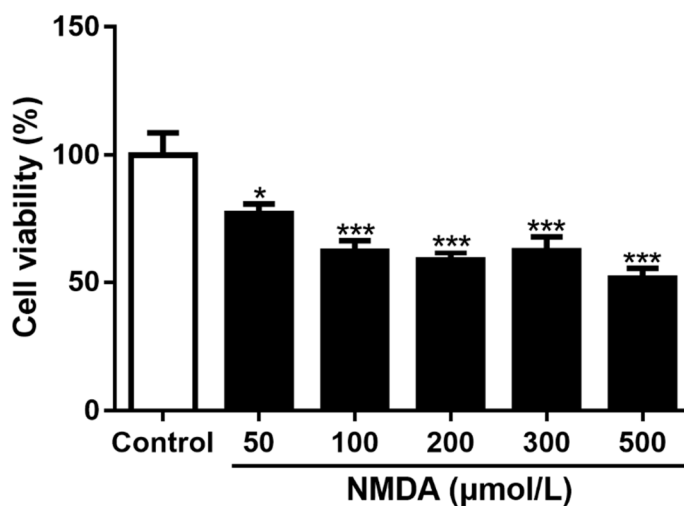


Fig. S1 NMDA-induced cytotoxicity. Cell viability was evaluated after exposure to different concentrations of NMDA (50 µmol/L, 100 µmol/L, 200 µmol/L, 300 µmol/L, or 500 µmol/L) for 24 h using the MTT assay. * $P < 0.05$, *** $P < 0.001$ vs control group. Data are expressed as the mean \pm SD, $n = 8$. Statistical significance was calculated using one-way ANOVA and Dunnett's multiple comparison test.

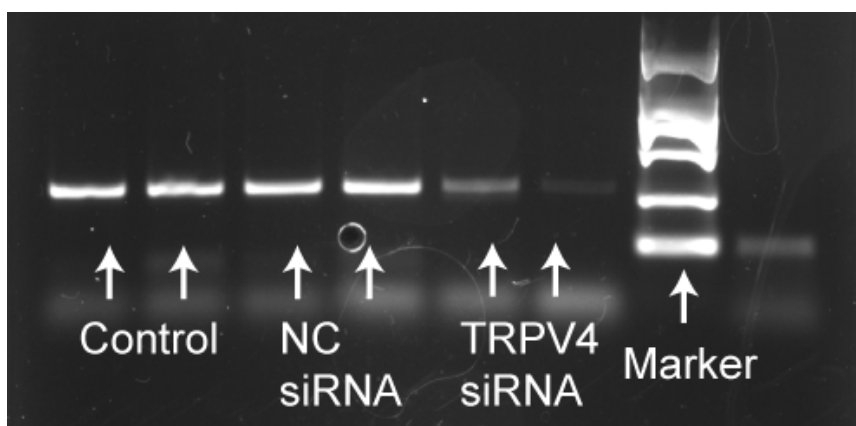


Fig. S2 The mRNA expression level of TRPV4 after siRNA (10 nmol/L) silencing.

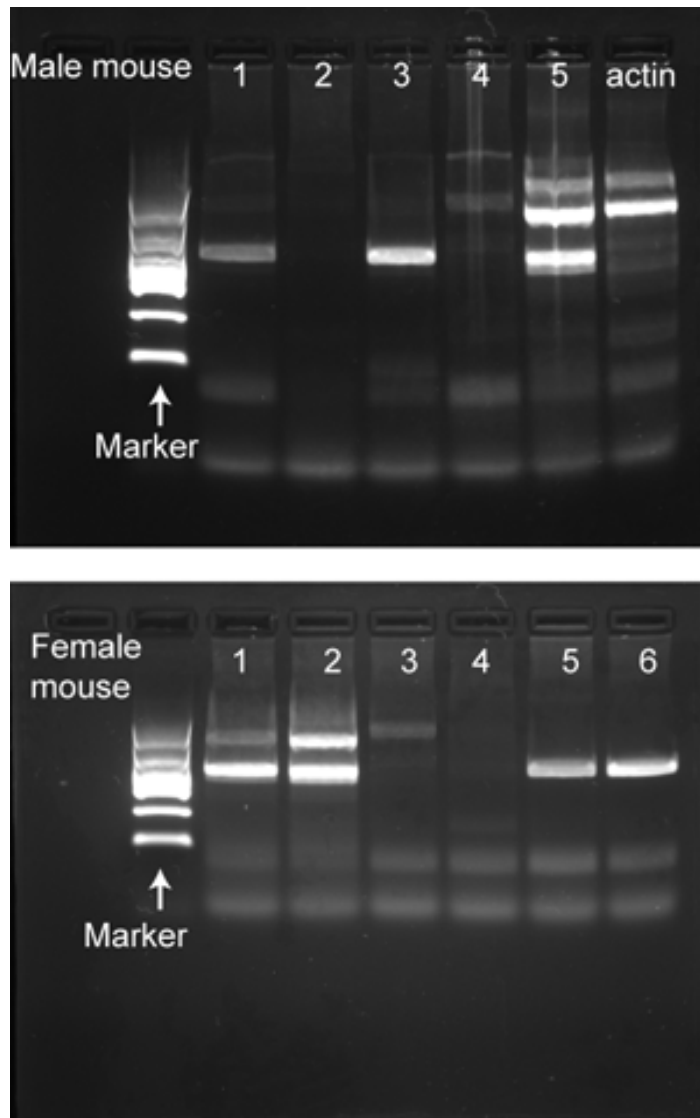


Fig. S3 TRPV4 mRNA expression level of TRPV4-KO F2 progenies. F2 mice were bred in-house from heterozygous breeding pairs (F1). Male mouse No. 2 and female mouse No. 4 were selected to breed the F3 progeny.