



Fig. S2. Generation and characterization of Hv1 gene (*Hvcn1*) Knockout mice. a

Schematic of the WT allele and the constitutive knockout (*Hvcn1*^{-/-}) allele in the targeted area.

Primer F1 (5'-GAGACTGGGCTGTAGTACCGTTG-3') and R1 (5'-AAAAGATGGCCTGGAGCTGC-3') were used to detect KO allele (product size: 411-bp)

and Primer F1 and R2 (5'-GACCTCTCACTCTTACCTGAAA-3') were used to detect WT allele (product sizes: 536-bp). **b** Genotypes of WT, *Hvcn1*^{-/-}, *Hvcn1*^{+/-} for the constitutive knock out mice. Primer sequence, Forward: 5'-CACATCAGCAGAGGGTGAGG-3', Reverse: 5'-CAGGAGGAGTTCAGCAAGCA-3'.