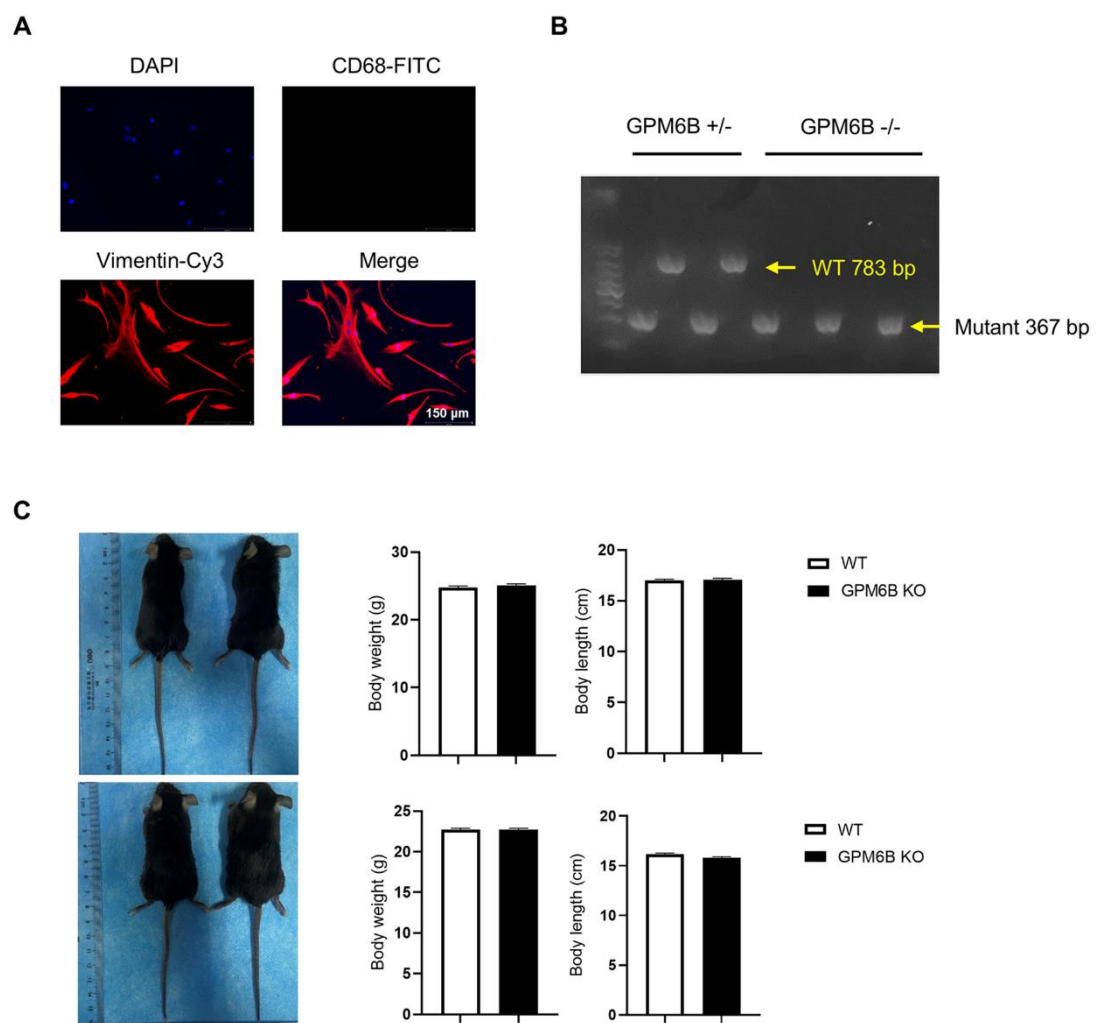


1 **Additional files**



2

3 **Additional file 1.** (A) Immunofluorescence staining of vimentin and CD68 to determine the purity

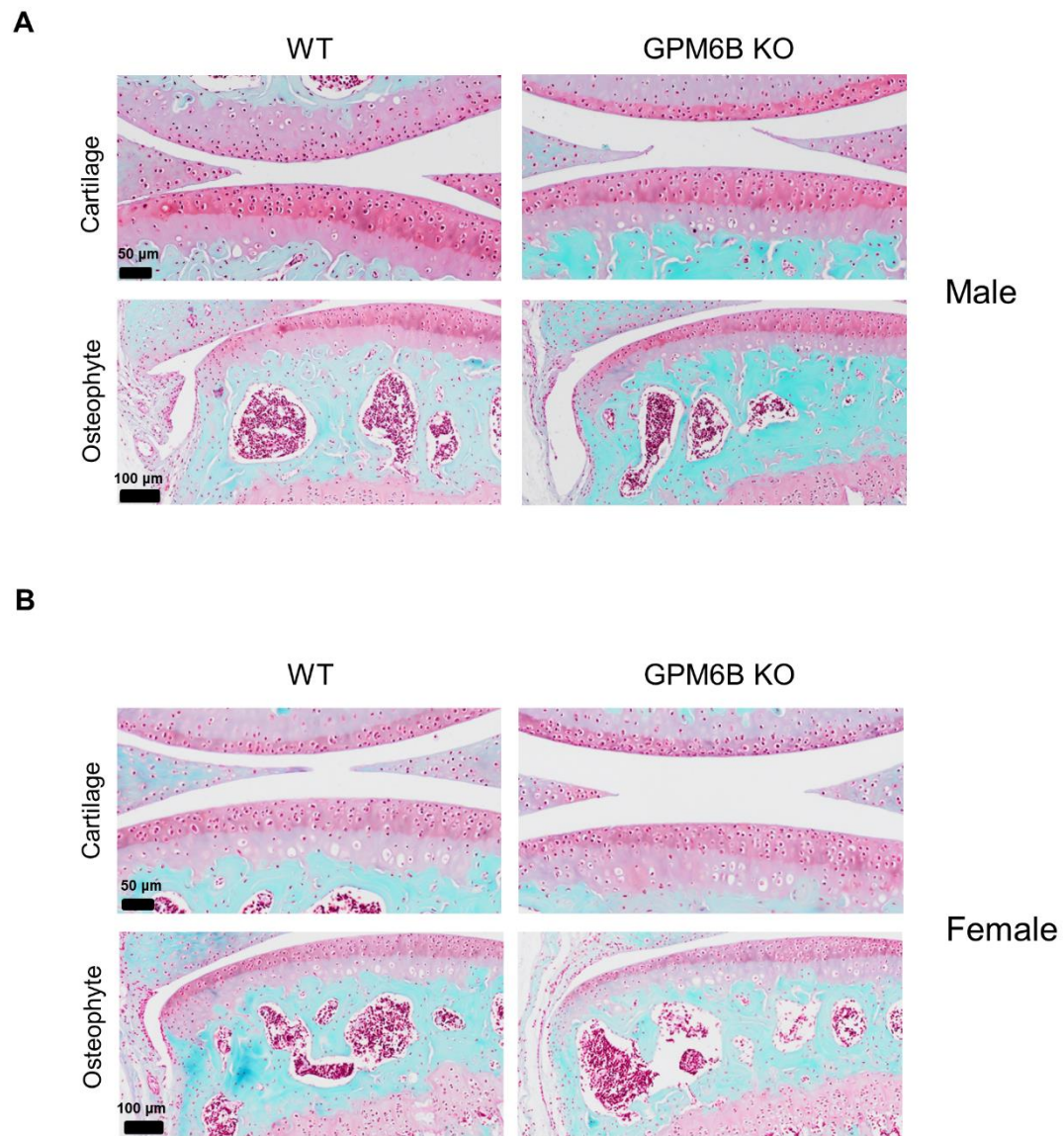
4 of isolated primary FLS; scale bar: 150 μ m. (B) Genotyping for GPM6B KO mice. The lower 367

5 bp band indicates GPM6B mutant band, and the upper 783 bp band indicates WT band. (C) Gross

6 appearance of 10-week-old male (upper) and female mice (lower), body weight and length

7 compared with WT littermates.

8



9

10 **Additional file 2.** Safranin O-fast green staining of knee joints in 10-week-old WT and GPM6B

11 KO male (A) and female (B) mice. Scale bars: 50 µm and 100 µm.