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Cbfβ is a novel modulator against osteoarthritis by maintaining articular cartilage homeostasis through TGF-ꞵ signaling

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Supplementary Figure 1. Cbfꞵ loss induces catabolic factors expression

(a and b) Mmps and inflammatory cytokine expression were performed by qRT-PCR.



Supplementary Figure 2. The Gdf5-Cre transgene is active in articular cartilage

(a) X-gal stained whole embryos and paraffin sections of the humerus from *R26R;Gdf5-Cre* and WT mice at embryonic day 16.5 (E16.5) (left panel). X-gal stained hindlimb (blue areas) and paraffin sections of the tibia joint from *R26R;Gdf5-Cre* and WT mice at 3 months (right panel). (b) The expression of Cbfβ in the *CbfbΔac/Δac* articular chondrocytes was determined by qRT-PCR. (c) The expression of Cbfβ in articular chondrocytes at E16.5 was imaged by immunofluorescent staining, and its quantification was evaluated using Image J (d). (e) The expression of Cbfβ in articular chondrocytes at 20-week-old mice were imaged by immunofluorescent staining. DIC, differential interference contrast.