Supplementary Material

Supplementary Figure 1. Image of 3D-printed Ti6Al4V porous scaffold and PSC-coated 3D-printed Ti6Al4V porous scaffold
(A) 3D-printed Ti6Al4V scaffold without PSC coating. (B) PSC-coated 3D-printed Ti6Al4V porous scaffold.

Supplementary Figure 2. Process of Animal Surgery
(A) General anesthesia and disinfection. (B) Incision of skin and subcutaneous tissue. (C) Exposure of medial femoral condyles. (D) Drill a hole with a diameter of 5mm and a depth of 6mm. (E) Implant scaffolds. (F) Wound closing.
Supplementary Figure 3. Mechanical testing system of Push-out test

(A) Image of mechanical testing system (Landmark, MTS Inc., Eden Prairie, MN, USA). (B) Fixed specimen in a special holder using polymethyl methacrylic. (C) Specimen before Push-out test. (D) Specimen after Push-out test. The scaffold was pushed out from the bone.