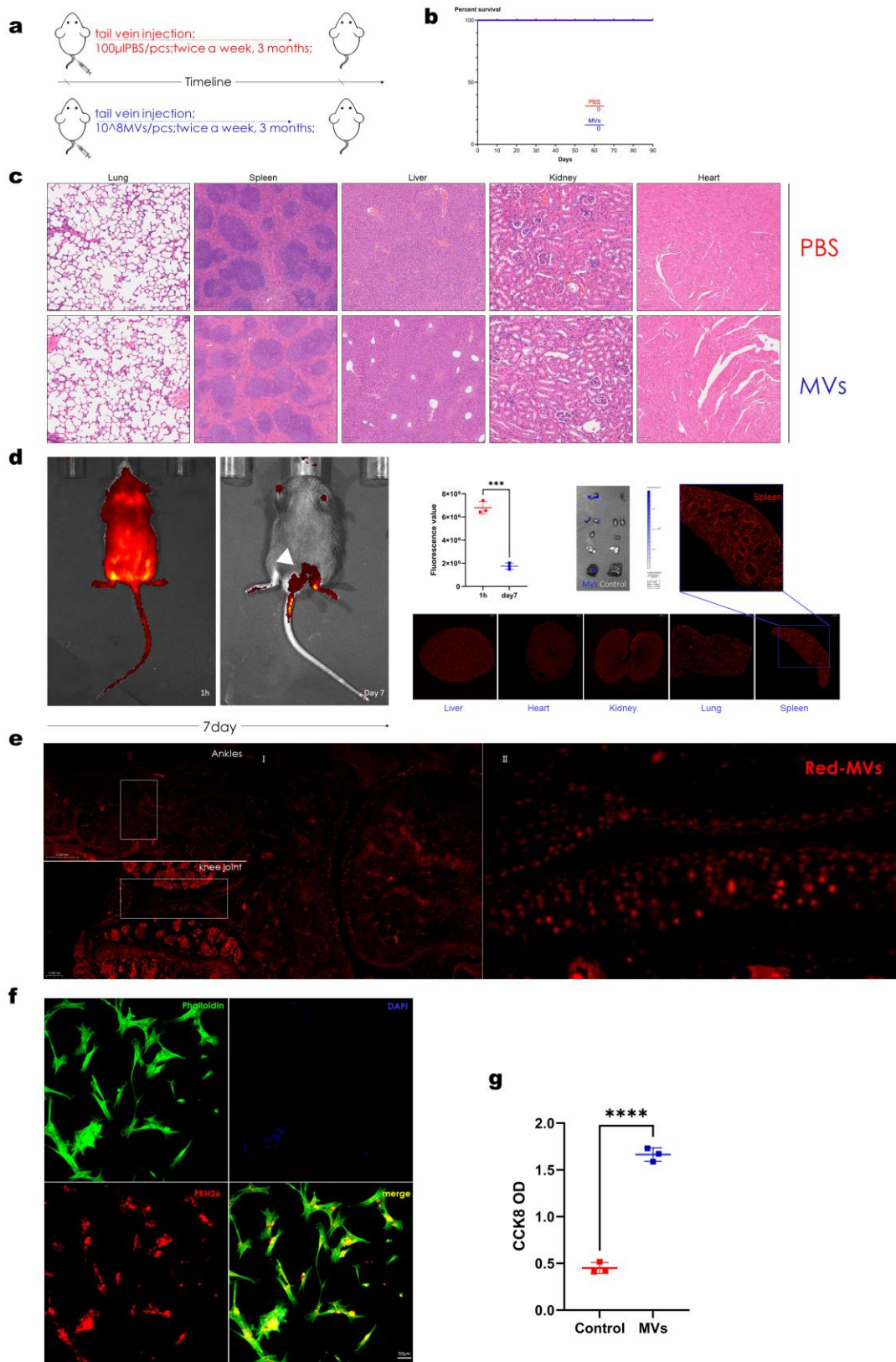




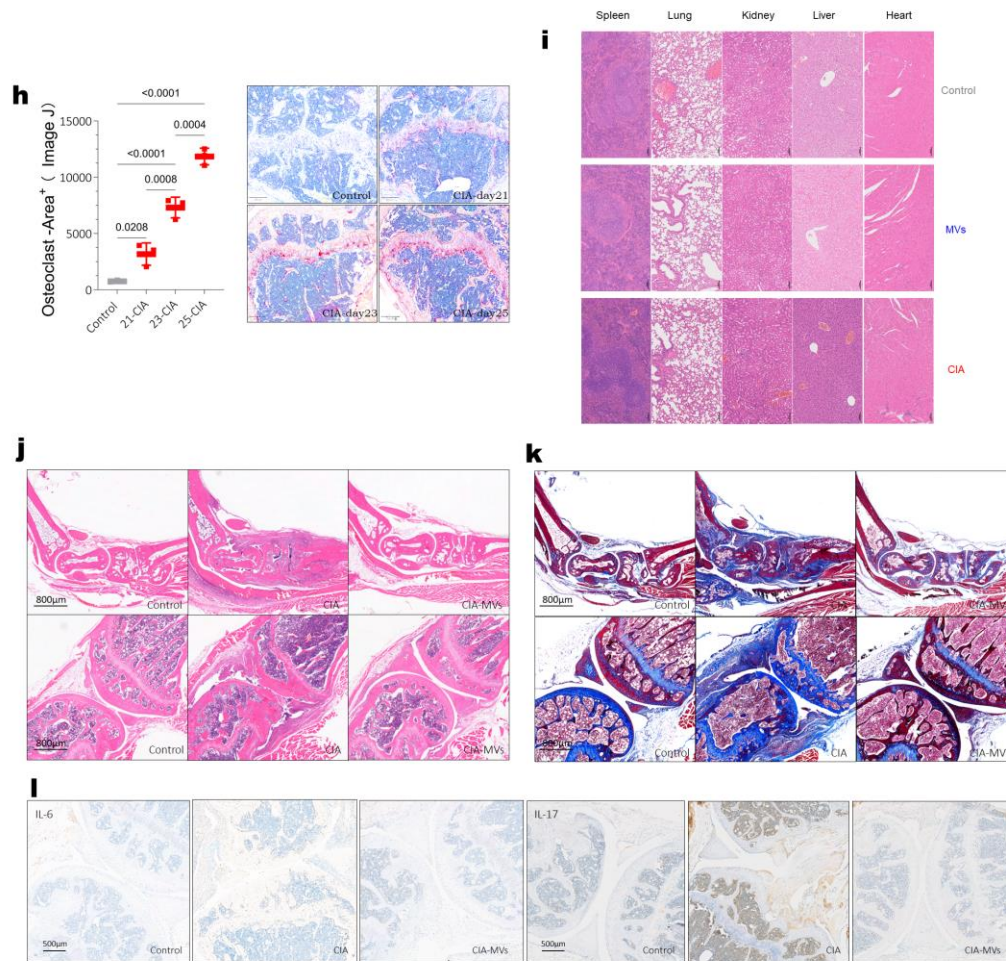


Fig. S1 (a) Schematic diagram of long-term tail vein injection of MVs (N=24). (b) Survival curves of the mice within 3 months. (c) On the 90th day, H&E staining of important organs from the mice was used to assess toxicity. (d) Distribution and metabolism of MVs in vivo. (e) After intravenous injection, MVs were found in chondrocytes. (f) MVs can enter cells. (g) CCK-8 tests were performed to assess the cytotoxicity of MVs at appropriate doses. (h) TRAP staining was performed, and the osteoclasts of the mice were observed from 21 to 25 days. (i) TRAP staining was performed, and the osteoclasts of the mice were observed from 21 to 25 days. (k) Masson staining was used to observe collagen in the knee and ankle joints. (l) The expression of IL-6 and IL-17 in knee chondrocytes was observed via immunohistochemistry.