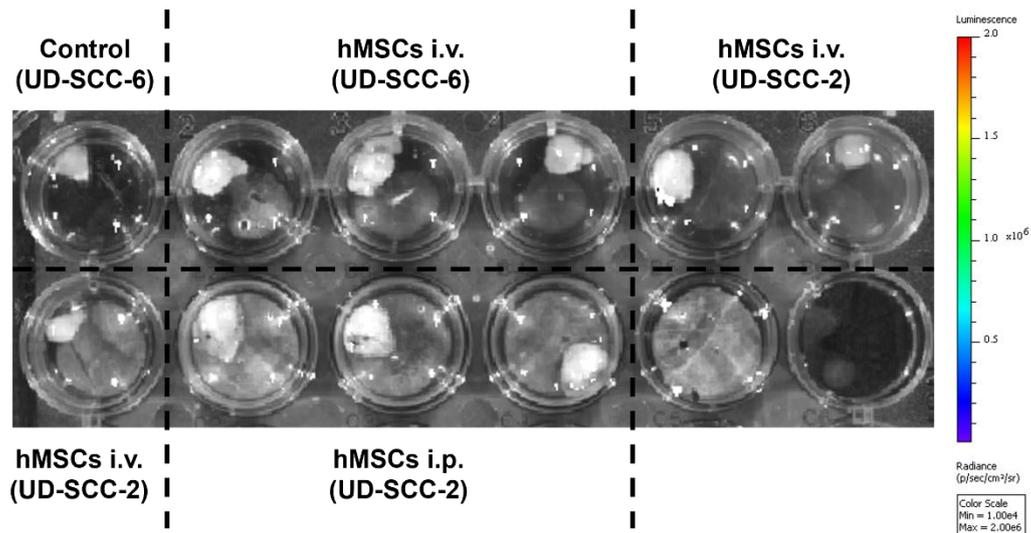


Supplementary Figure S1 Establishment of a xenograft HNSCC model in NSG mice. (A+B) Cell lines derived from HNSCC were seeded into 96-well plates (2×10^4 cells/well). The next day, cells were transduced with the indicated replication-incompetent first generation eGFP-expressing HAdV-5 vector (pMOI 1000). Enhanced GFP expression was analyzed 24 h later by flow cytometry. Results are shown as mean \pm SD of biological triplicates. (C+D) 2×10^6 UD-SCC-2 (C) or UD-SCC-6 (D) cells were injected subcutaneously into the left flank of NSG mice. Tumor volumes were determined daily. Results are shown as mean \pm standard deviation (UD-SCC-2: n = 6, UD-SCC-6: n = 7). (E) 6 μ m cryosections were stained using a rat α -mouse CD31 antibody and a secondary Alexa488-labeled goat anti-rat IgG antibody. ChromPure rat IgG was used as isotype control. Cell nuclei were stained with DAPI. A representative staining of a UD-SCC-2 xenograft tumor section is shown excised 39 days post tumor cell injection. Similar results were obtained for UD-SCC-6 xenograft tumor sections.



Supplementary Figure S2 HNSCC tumors from mice injected with firefly luciferase-expressing hMSCs did not show intratumoral luciferase activity. 1×10^6 BM-hMSCs (transduced 3 h before with a firefly luciferase-encoding replication-incompetent first generation HAdV-5 vector pre-incubated with hFX) were injected i.v. or i.p. into tumor-bearing mice after 21 days of tumor growth. Seventy-two hours post-hMSC injection, the mice were sacrificed, and tumors were removed and transferred into PBS. The removed xenograft tumors were analyzed for luciferase activity using the IVIS 200 *in vivo* imaging system. Five minutes before analysis, firefly luciferase substrate was added to the PBS. A representative image from the IVIS 200 system is shown.