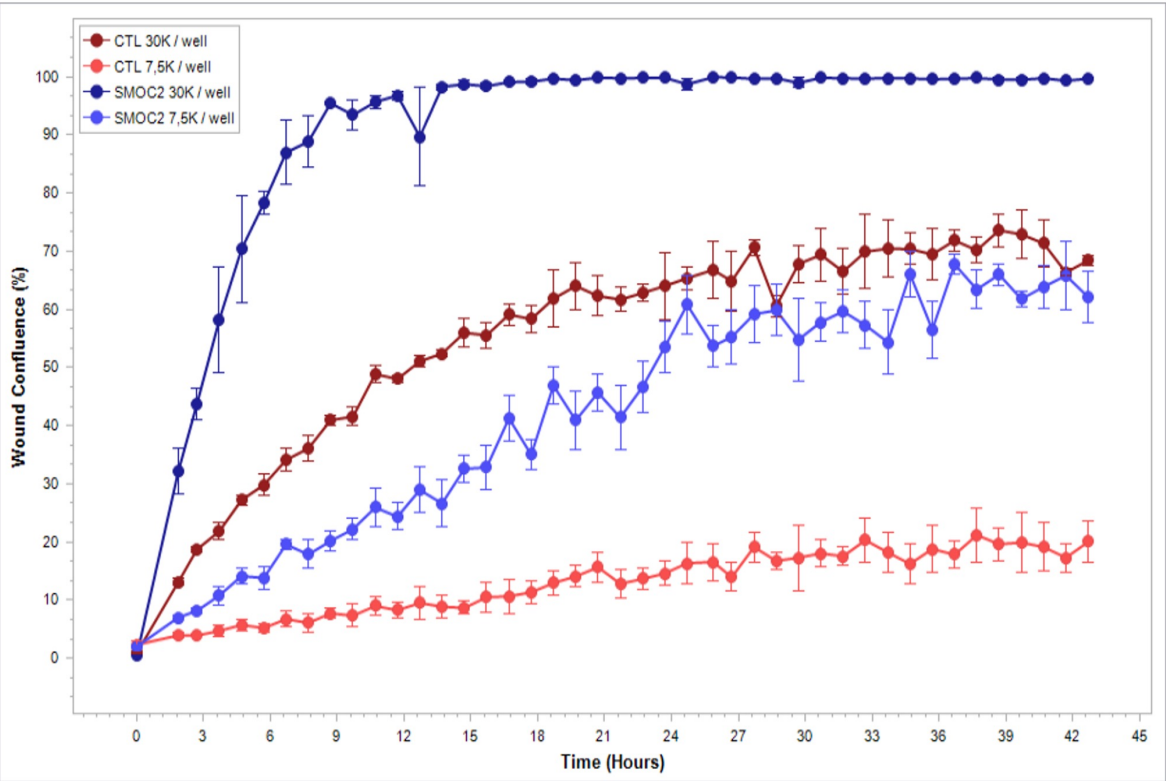
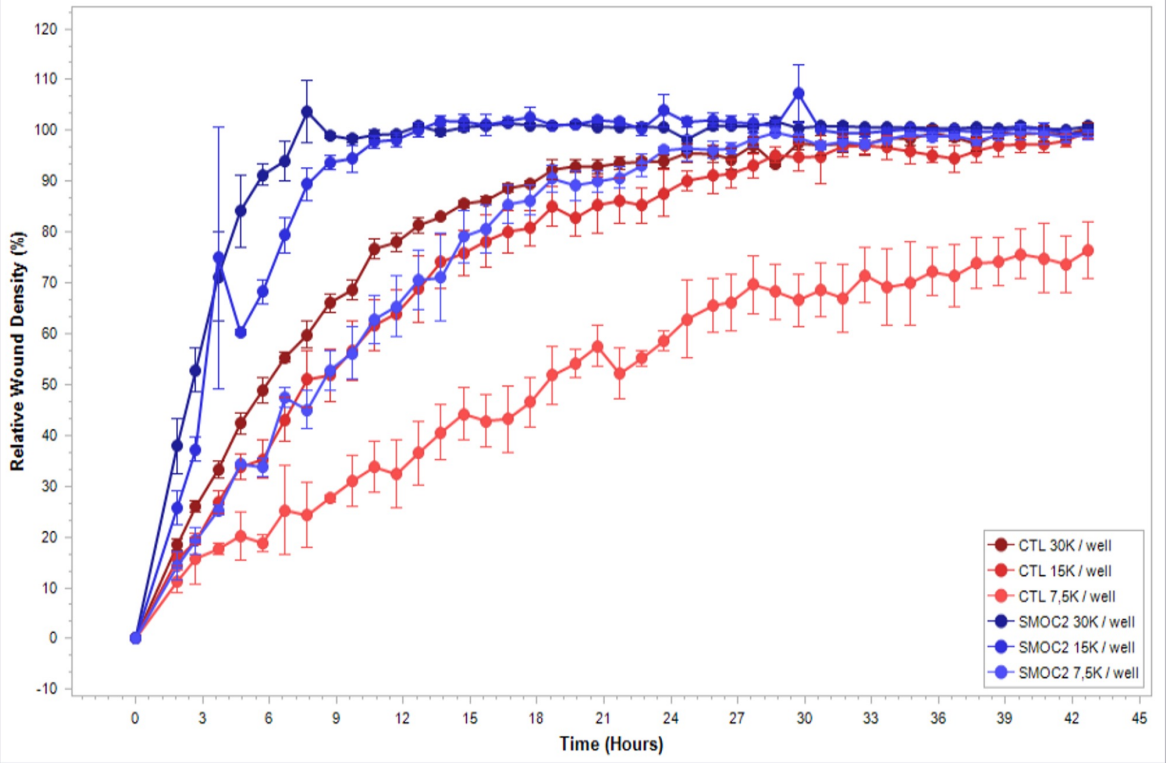


Suppl. Fig. 1

a

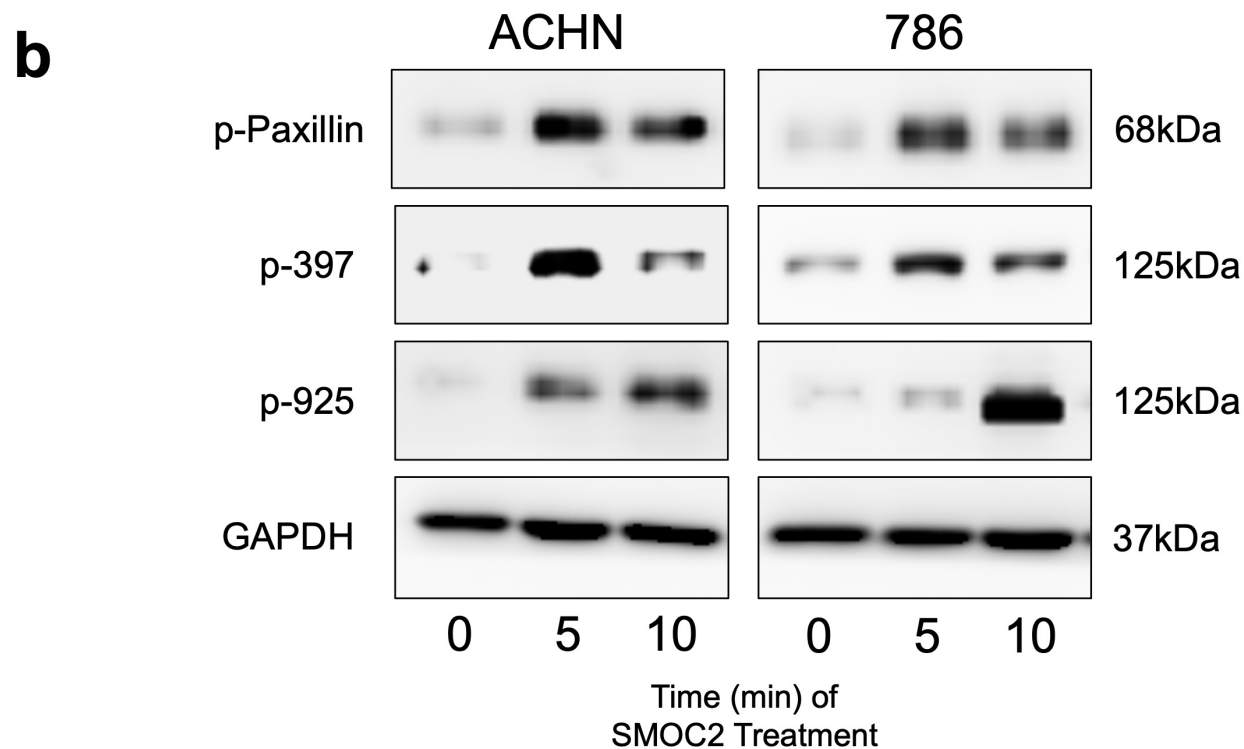
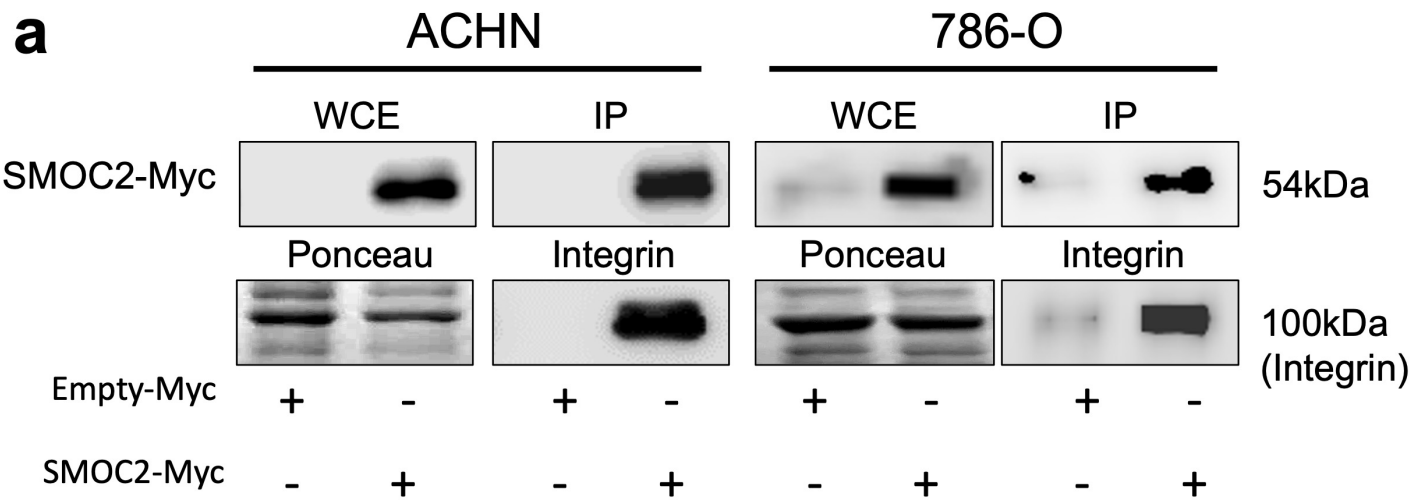


b



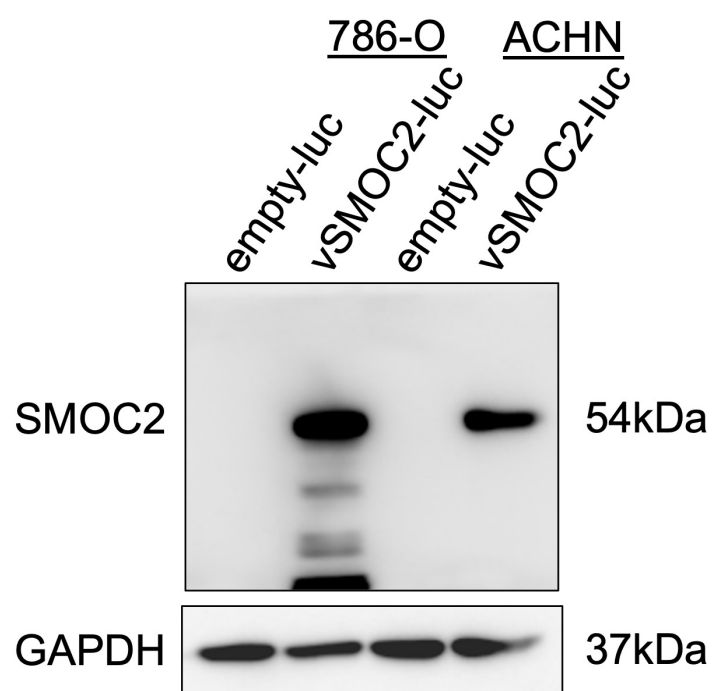
Suppl. Fig. 1 SMOC2 overexpression promotes RCC wound closure. 786-O cells were transduced with an empty-luc or SMOC2-luc vector, which were used to form a monolayer then scratched for a Scratch assay. Live cell analysis of 786-O cells was monitored over a 43hr period for the percentage of **a** wound confluence and **b** relative wound density. Wound confluence (%) represents the fractional area of the wound that is occupied by cells. Relative wound density is a measure (%) of the density of the wound region relative to the density of the cell region. Each experiment was performed with an n=3; * $P < 0.05$ determined by t-test.

Suppl. Fig. 2



Suppl. Fig. 2 SMOC2 binds to integrin and activates its downstream pathway. **a** ACHN and 786-O cells were transfected with either a SMOC2-Myc or empty-Myc vector, then protein harvested after 24h. Cell extracts were immunoprecipitated for Myc. Western blot analysis was performed on whole cell extracts (WCE) and Myc-immunoprecipitated samples for Myc and integrin $\beta 3$. Ponceau staining served as a loading control. **b** ACHN and 786-O cells were treated with either recombinant SMOC2 or vehicle (control), then protein harvested at indicated time points. A representative Western blot was performed on whole cell extracts for phosphorylated Focal Adhesion Kinase (P-FAK) at sites Y397 and Y927, and paxillin at site Tyr118. GAPDH immunoblotting served as a loading control.

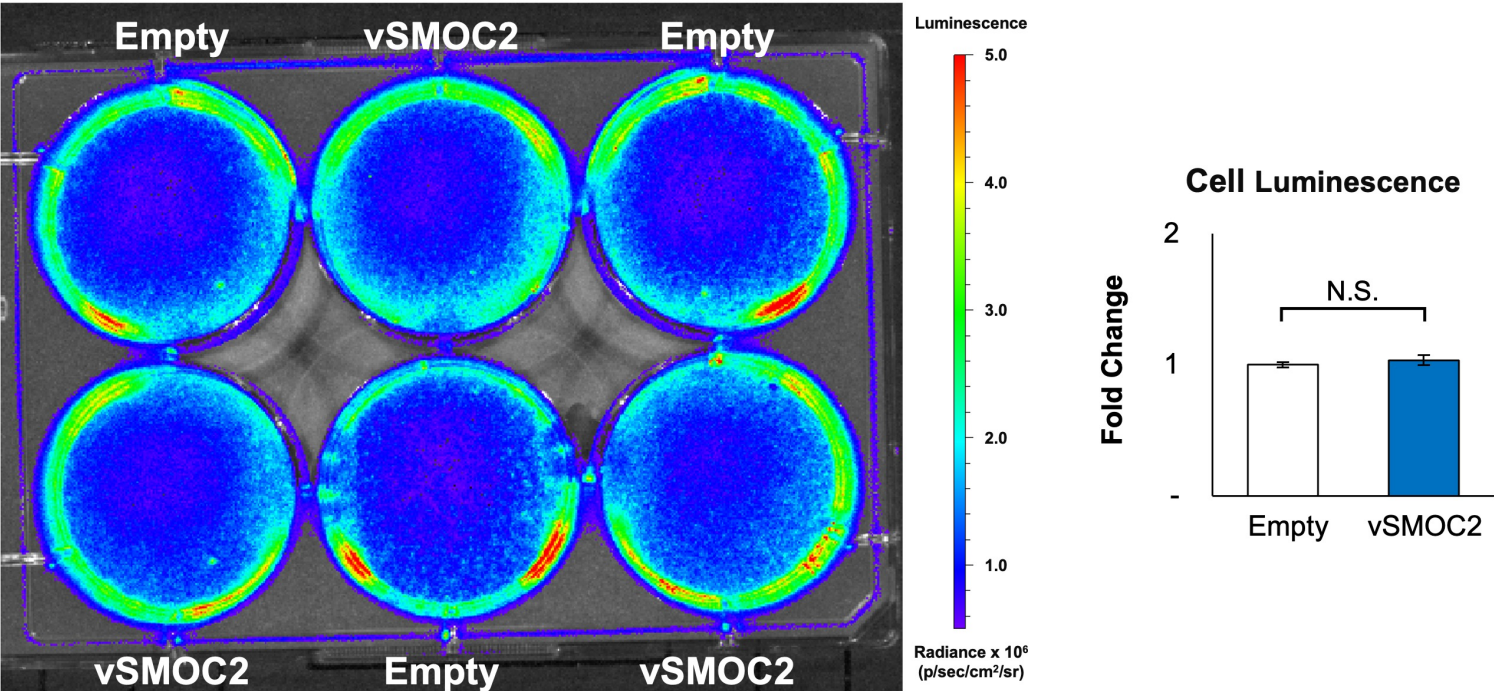
Suppl. Fig. 3



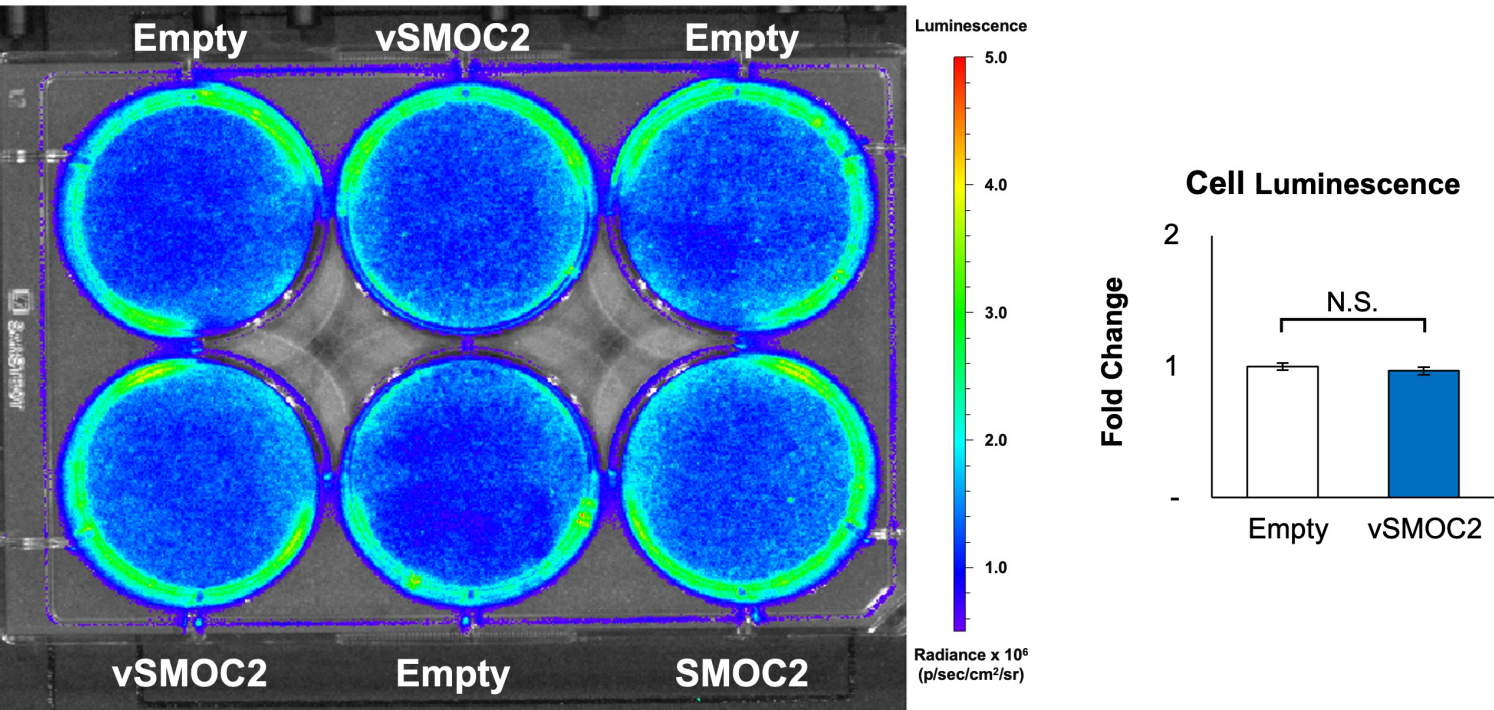
Suppl. Fig. 3 SMOC2 expression in RCC cells. ACHN and 786-O cells were transduced with a luciferase-labeled SMOC2 (vSMOC2-luc) or empty vector. A representative Western blot was performed for the expression of SMOC2.

Suppl. Fig. 4

a 786-O

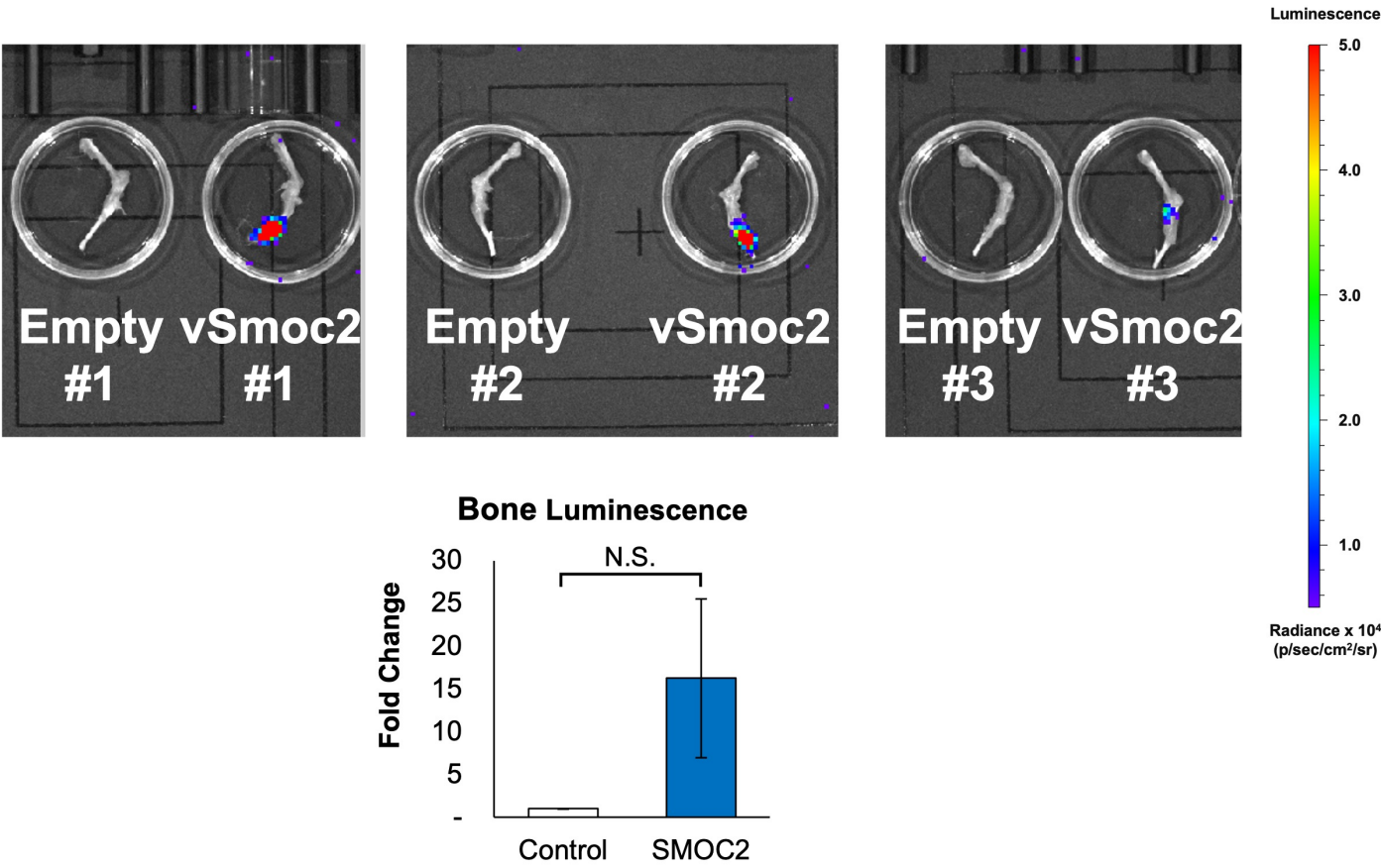


b ACHN



Suppl. Fig. 4 Luminescence in RCC cells. ACHN and 786-O cells were transduced with a luciferase-labeled SMOC2 (vSMOC2) or empty vector (Empty) which were used for our *in vivo* models. Cells were plated at **a** 400 000 cells/well (ACHN) or **b** 200 000 cells (786-O), and let to adhere for ~3h. Immediately before imaging, media was carefully removed and media containing 150 µg/mL D-Luciferin was added. Image was recorded 10 minutes following media change. Cell luminescence was detected by IVIS imaging; * $P < 0.05$ determined by t-test. N.S.: no significant difference.

Suppl. Fig. 5



Suppl. Fig. 5 SMOC2 expression in RCC cells increases metastasis to the hind limb bones in immunodeficient mice. ACHN cells were transduced with a luciferase-labeled SMOC2 (vSMOC2) or empty vector which were used to inject intravenously into SCID mice and euthanized at 17-18 days. Each experiment was performed with an n=5-6. The hind limb bones were harvested after intraperitoneally injecting mice with luciferin, and luminescence was detected by IVIS imaging, as shown by representative images. N.S.: no significant difference.