

Major Resources Table

In order to allow validation and replication of experiments, all essential research materials listed in the Methods should be included in the Major Resources Table below. Authors are encouraged to use public repositories for protocols, data, code, and other materials and provide persistent identifiers and/or links to repositories when available. Authors may add or delete rows as needed.

Animals (in vivo studies)

Species	Vendor or Source	Background Strain	Sex	Persistent ID / URL
<i>Mus musculus</i>	Jackson Laboratory	C57BL/6	M	https://www.jax.org/strain/000664
<i>Mus musculus</i>	Jackson Laboratory	C57BL/6	F	https://www.jax.org/strain/000664

Genetically Modified Animals

Name	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
<i>Ren1^{c-YFP}</i>	<i>Mus musculus</i>	Maria Luisa S. Sequeira-Lopez, R. Ariel Gomez	C57BL/6	Pentz ES, Lopez ML, Cordaillat M, Gomez RA. Identity of the renin cell is mediated by cAMP and chromatin remodeling: an in vitro model for studying cell recruitment and plasticity. <i>Am J Physiol Heart Circ Physiol.</i> 2008;294:H699-H707. [PubMed: 18055510]	
<i>Ren1^{dCre}</i>	<i>Mus musculus</i>	Maria Luisa S. Sequeira-Lopez, R. Ariel Gomez	C57BL/6	Sequeira López ML, Pentz ES, Nomasa T, Smithies O, Gomez RA. Renin cells are precursors for multiple cell types that switch to the renin phenotype when homeostasis is threatened. <i>Dev Cell.</i> 2004;6:719-728. [PubMed: 15130496]	
<i>Itgb1^{fllox}</i>	<i>Mus musculus</i>	Jackson Laboratory	B6;129		https://www.jax.org/strain/004605
<i>Lmna^{fllox}</i>	<i>Mus musculus</i>	Dr. Yixian Zheng	CD1; 129; Sv; C57Bl/6J	Kim Y, Zheng Y. Generation and characterization of a conditional deletion allele for Lmna in mice. <i>Biochem Biophys Res Commun.</i> 2013;44:8-13. [PubMed: 23998933]	https://www.jax.org/strain/026284

Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Persistent ID / URL
Digoxigenin	Millipore-Sigma	11093274910	1:4,000	https://www.sigmaaldrich.com/catalog/product/roche/11093274910
Renin	Maria Luisa S. Sequeira-Lopez, R. Ariel Gomez		1:500	
α -SMA	Millipore-Sigma	A2547	1:10,000	https://www.sigmaaldrich.com/catalog/product/sigma/a2547
Integrin β 1	Douglas W. DeSimone		1:250	

Integrin $\alpha 5$	Douglas W. DeSimone		1:1,000	
Integrin αV	Cell Signaling Technology	60896	1:1,000	https://www.cellsignal.com/products/primary-antibodies/integrin-av-d2n5h-rabbit-mab/60896
lamin A + lamin C	Abcam	ab133256	1:400	https://www.abcam.com/lamin-a--lamin-c-antibody-ep4520-16-ab133256.html
Renin	Dr. Tadashi Inagami		1:200	
H3K4me1	Thermo Fisher Scientific	710795	1:1,000	https://www.thermofisher.com/antibody/product/H3K4me1-Antibody-Recombinant-Polyclonal/710795
H3K4me2	Abcam	ab7766	1:1,000	https://www.abcam.com/histone-h3-di-methyl-k4-antibody-chip-grade-ab7766.html
H3K4me3	Active Motif	39060	1:1,000	https://www.activemotif.com/catalog/details/39159
H3K9me2	Abcam	ab1220	1:1,000	https://www.abcam.com/histone-h3-di-methyl-k9-antibody-mabcam-1220-chip-grade-ab1220.html
H3K9me3	Active Motif	39162	1:1,000	https://www.activemotif.com/catalog/details/39161
H3K27ac	Abcam	ab4729	1:2,000	https://www.abcam.com/histone-h3-acetyl-k27-antibody-chip-grade-ab4729.html
H3K27me3	Cell Signaling Technology	9733	1:1,600	https://www.cellsignal.com/products/primary-antibodies/tri-methyl-histone-h3-lys27-c36b11-rabbit-mab/9733
Lamin A/C	Active Motif	39288	1:1,000	https://www.activemotif.com/catalog/details/39287/lamin-a-c-antibody-mab-clone-3a6-4c11
Rabbit IgG	Vector Laboratories	BA-1000	1:200	https://vectorlabs.com/biotinylated-goat-anti-rabbit-igg-antibody.html
Mouse IgG	Vector Laboratories	BA-2000	1:200	https://vectorlabs.com/biotinylated-horse-anti-mouse-igg-antibody.html
Goat IgG	Thermo Fisher Scientific	A11055	1:500	https://www.thermofisher.com/antibody/product/Donkey-anti-Goat-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-11055
Rabbit IgG	Thermo Fisher Scientific	A10042	1:500	https://www.thermofisher.com/antibody/product/Donkey-anti-Rabbit-IgG-H-L-Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A10042
Mouse IgG	Thermo Fisher Scientific	A10037	1:500	https://www.thermofisher.com/antibody/product/Donkey-anti-Mouse-IgG-H-L-Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A10037
Rabbit IgG	Jackson ImmunoResearch	711-655-152	1:20,000	https://www.jacksonimmuno.com/catalog/products/711-655-152

DNA/cDNA Clones

Clone Name	Sequence	Source / Repository	Persistent ID / URL
n/a			

Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
CFP/YFP cells (10 to 20 passages)	Maria Luisa S. Sequeira-Lopez, R. Ariel Gomez	F	Pentz ES, Lopez ML, Cordaillat M, Gomez RA. Identity of the renin cell is mediated by cAMP and chromatin remodeling: an in vitro model for studying cell recruitment and plasticity. <i>Am J Physiol Heart Circ Physiol.</i> 2008;294:H699-H707. [PubMed: 18055510]

Data & Code Availability

Description	Source / Repository	Persistent ID / URL
RNA-seq	GEO	GSE157699
ATAC-seq	GEO	GSE167522

Other

Description	Source / Repository	Persistent ID / URL
Intramedic PE Tubing	Becton Dickinson	Catalog #: 427401
Acti-Stain 488 Phalloidin	Cytoskeleton Inc	Catalog #: PHDG1
RNAScope Probe- Mm-Kiss1	Advanced Cell Diagnostics	Catalog #: 500141
RNAScope Probe- Mm-Vtn	Advanced Cell Diagnostics	Catalog #: 443601
RNAScope Probe- Mm-Sdf211	Advanced Cell Diagnostics	Catalog #: 562401
RNAScope Probe- Mm-E2f3	Advanced Cell Diagnostics	Catalog #: 437821
RNAScope Probe-Mm-Lmna	Advanced Cell Diagnostics	Catalog #: 314811
RNAScope Probe Mm-Ren1-C2	Advanced Cell Diagnostics	Catalog #: 433461-C2
Mouse Renin 1 ELISA Kit	RayBiotech	Code: ELM-Renin1-1
SMART-Seq v4 Ultra Low Input RNA Kit for Sequencing	Takara Bio USA	Catalog #: 634888
Alt-R S.p. HiFi Cas9 Nuclease V3	Integrated DNA Technologies	Catalog #: 1081060
SE Cell Line 4D-Nucleofector™ X Kit	Lonza	Catalog #: V4XC-1024