

Supplemental Table 1. Mouse Lines.

Allele	Name in Text	Source	Primers	Product Size
Tg(Upk2- icre/ERT2)1Ccc/J	<i>Upk2</i> ^{CreERT2}	Jackson Laboratory (stock #024768) ¹	Common Forward: 5'-GCGGGAGTTCCAGAAAGAG-3' Wild Type Reverse: 5'-AGGACAGCCAGCAGAATCAG-3' Mutant Reverse: 5'-AGATCTCCTGTGCAGCATG-3	Wild Type: 338 bp Mutant: 600 bp
B6.Cg- <i>Gt(ROSA)26Sor^{tm14(CAG- tdTomato)Hze/J}</i>	<i>R26</i> ^{tdT}	Jackson Laboratory (stock #007914) ²	Wild Type forward: 5'-AAGGGAGCTGCAGTGGAGTA-3' Wild Type reverse: 5'-CCGAAAATCTGTGGGAAGTC-3' Mutant forward: 5'-CTGTTCTGTACGGCATGG-3' Mutant reverse: 5'-GGCATTAAAGCAGCGTATCC-3'	Wild Type: 297 bp Mutant: 315 bp
B6.129- <i>Pparg</i> ^{tm2Rev/J}	<i>Pparg</i> ^{fl/fl}	Jackson Laboratory (stock #004584) ³	Mutant Forward 5'-TGTAATGGAAGGGCAAAAGG-3' Mutant Reverse: 5'-TGGCTTCCAGTGCATAAGTT-3' Wild Type forward: 5'-TGTAATGGAAGGGCAAAAGG-3' Wild Type Reverse: 5'-TGGCTTCCAGTGCATAAGTT-3'	Wild Type: 184 bp Mutant: 220 bp
<i>ROSA26-CAG-STOP- VP16PPARG-IRES- EGFP</i>	<i>VP16-Pparg</i> ^{fl/fl}	Cathy L. Mendelsohn Laboratory, Columbia University ⁴	Mutant Forward: 5'-CTGCATTCTAGTTGTGGTTTGTCCA-3' Mutant Reverse: 5'-ATCGGTAAACATCTGCTCAAACCTCG-3' Wild Type Forward: 5'-CCCAAAGTCGCTCTGAGTTGTTATC-3' Wild Type Reverse: 5'-AACTCGGGTGAGCATGTCTTTAATC-3'	Wild Type: 500 bp Mutant: 300 bp

Supplemental Table 2. Primary Antibodies.

Name (host)	Catalogue #	Company	Concentration
PPARG (rabbit)	2435S	Cell Signaling Technology	1:400
FABP4 (goat)	AF1443-SP	R&D Systems	1:1000
FOXA1 (mouse)	Sc-101058	Santa Cruz Biotechnology	1:400
GRHL3 (rabbit)	Ab221058	Abcam	1:800
KRT5 (rabbit)	PRB-160P	Covance	1:800
KRT5 (chicken)	905901	BioLegend	1:500
KRT5 (rabbit-488)	ab193894	Abcam	1:800
RXRA (rabbit)	D6H10	Cell Signaling Technology	1:400
UPK1A (goat)	sc-15173	Santa Cruz Biotechnology	1:400
UPK1B (mouse)	WH0007348M2	Sigma Aldrich	1:400
UPK3A (rabbit)	A10034	AbClonal	1:800
UPK3A (mouse)	10R-U103ax	Fitzgerald	1:200
TDT (rabbit)	600-401-379	Rockland	1:500
TDT (goat)	MBS448092	My Biosource	1:500

Supplemental Table 3. Mouse Primers Used for RT-qPCR.

Gene	Name in Text	Primers	Product Size
<i>Glyceraldehyde-3-phosphate dehydrogenase</i>	<i>Gapdh</i>	Forward: 5'- CTGGAGAAACCTGCCAAGTA -3' Reverse 5'- TGTGCTGTAGCCGTATTCA -3'	223 bp
<i>Uroplakin 3a</i>	<i>Upk3a</i>	Forward: 5'- TCCCACTGAGCACCCTTTC -3' Reverse 5'- CCACAAGGGGTCAGGTCAAA -3'	85 bp
<i>Hepatitis A virus cellular receptor 1</i> encodes kidney injury molecule-1 (KIM-1)	<i>Havcr1</i>	Forward: 5'- TTTCAGGCCTCATACTGCTTC -3' Reverse: 5'- TGTTGAGTAAGTACATGGAAGTGTGA -3'	101 bp
<i>Lipocalin-2 (aka neutrophil gelatinase-associated lipocalin, Ngai)</i>	<i>Lcn2</i>	Forward: 5'- GCCTCAAGGACGACAACATC -3' Reverse: 5'- CTGAACCATTGGGTCTCTGC -3'	109 bp
<i>Smooth muscle alpha (α)-2 actin</i>	<i>Acta2</i>	Forward: 5'- ACACTGCTGACAGAGGCACCAC -3' Reverse: 5'- GCCACATACATGGCGGGGACAT -3'	98 bp
<i>Collagen, type I, alpha 1</i>	<i>Col1a1</i>	Forward: 5'- TGGACGGCTGCACGAGTCAC -3' Reverse: 5'- GCAGGCGGGAGGTCTTGGTG -3'	78 bp
<i>Collagen, type III, alpha 1</i>	<i>Col3a1</i>	Forward: 5'- CTGGTCAAGCTGGTCCGGCA -3' Reverse: 5'- AGGTCCAGGCAGTCCACGCT -3'	125 bp

SUPPLEMENTAL REFERENCES

- 1 Shen, T. H. *et al.* A BAC-based transgenic mouse specifically expresses an inducible Cre in the urothelium. *PloS one* **7**, e35243, doi:10.1371/journal.pone.0035243 (2012).
- 2 Madisen, L. *et al.* A robust and high-throughput Cre reporting and characterization system for the whole mouse brain. *Nat Neurosci* **13**, 133-140, doi:10.1038/nn.2467 (2010).
- 3 He, W. *et al.* Adipose-specific peroxisome proliferator-activated receptor gamma knockout causes insulin resistance in fat and liver but not in muscle. *Proceedings of the National Academy of Sciences of the United States of America* **100**, 15712-15717, doi:10.1073/pnas.2536828100 (2003).
- 4 Tate, T. *et al.* Pparg signaling controls bladder cancer subtype and immune exclusion. *Nature communications* **12**, 6160, doi:10.1038/s41467-021-26421-6 (2021).