

Supplemental Table 1. Sequence of oligonucleotide primers used in the study

Gene	Forward Primer Sequence	Reverse Primer Sequence
Klf5	CTCTCCCACCTGTCAGATAC	CAGGTGAGCTTTTAAGTGAGACG
Lama3	GGA CCA GGT GAT CTC TGA TG	CTG TCT CCT CCA CAA CTG CT
Lama5	GAC TAC TCA ACC TGC ATC CTG A	GTA GGA GCC ATC TGT GAG CCA T
Lamb1-1	TTG AGA GGA ACG TGG AAG AG	TGT AGC AGC TCA GCT TTC CT
Lamc2	CAG AAA AGC AGA GGC TGA AG	TGC TGT CAC ATT AGC TTC CA
Dsg1b	CAGCTGCACCTGAGATATGC	CACATCGGTTTCAGTGCTCTG
Dsc1	GAGCCAGTACACAACCGCAG	CATCAGCAGTTGTTGCATAT
Dsc3	CTGTAATCCTGGAGCACAAG	GCTGAATAGCCATCTGCAGT
Dsp1	GAAGGCACAGCAGATCCACTC	GATAGGTATGTTTCAGTAGAGT
Jup	TCTGCCTGAGCTACCAAGC	GCCCGTCTGCCAGACGCACC
Upk1b	GGG TGG AGA ATA ACG ATG CT	AGA GGA TGG CAA ATC CAA AC
Upk3b	AGCGACCCTATTGCAACG	CGGCATCCATTACAAGGAAC
Gkn1	ACAGCAGTCGGTGAGCATCAAT	G TTCATTCTGTGCACAATGCATGAC
Tjp1	CCACCTCTGTCCAGCTCTTC	AAATGGCCGGGCAGAGACTTGTGTA
Cdh1	CACCTGGAGAGAGGCCATGT	TGGGAAACATGAGCAGCTCT
Vim	CTTGAACGGAAAGTGAATCCT	GTCAGGCTTGGAAACGTCC
Gapdh	CGTATTGGGCGCCTGGTCAC	ATGATGACCCTTTTGGCTCC

Supplemental Table 2. Antibodies used in this study

Antibody name	Host/Conjugate	Catalogue #	Source
Anti-Ki67	Rabbit	RM-9106-s	Thermo-Fisher Scientific
Anti-Cyclin-D1	Rabbit	Rb-9041-P1	Neomarkers
Anti-phospho(S-10) p27/Kip1	Rabbit	sc-12939-r	Santa Cruz Biotechnology
Anti-Laminin	Rabbit	L9393	Sigma-Aldrich Corp.
Anti-Dsg-1	Rabbit	sc-20114	Santa Cruz Biotechnology
Anti-ZO-1	Rabbit	sc-10804	Santa Cruz Biotechnology
Anti-Gkn1	Rat	MA5-24367	Thermo-Fisher Scientific
Anti-Krt-12	Goat	sc-17101	Santa Cruz Biotechnology
Anti-E-Cadherin	Rabbit	710161	Invitrogen
Anti- β -catenin	Rabbit	C 2206	Sigma-Aldrich
Anti-Klf4	Rabbit	sc-20691	Santa Cruz Biotechnology
Anti- β -Actin	Goat	sc-1616	Santa Cruz Biotechnology
Anti-Goat IgG	Donkey-488	A11055	Life Technologies
Anti-Rabbit IgG	Goat-488	A11034	Life Technologies
Anti-Rabbit IgG	Goat-546	A11010	Life Technologies
Anti-Rat IgG	Goat-546	A11081	Life Technologies
Anti-Rabbit IgG	Donkey-IR-800	926-32213	LI-COR
Anti-Goat IgG	Donkey-IR-680	926-68074	LI-COR
Anti-Rat IgG	Goat-IR-800	925-32219	LI-COR
Anti-Rabbit IgG	Goat-IR-800	926-32211	LI-COR