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**Appendix Table S1.** Primary antibodies.

<b>Antibody</b>	<b>Reference</b>	<b>Company</b>
AE15	Ab58755	Abcam
BrdU	AB6326	Abcam
Cleaved caspase3	9661	Cell signaling
CD34	553731	BD Biosciences
Emilin1	103-M80	ReliaTech
GATA3	SC-268	Santa Cruz Biotechnology
JUP	CSB-PA12839A0Rb	CUSABIO
K6	PRP-169P	Covance
Ki67	MAD-000310QD	Master Diagnostica
Lhx2/9	Thomas Jessel lab	Columbia University
LYVE1	ab149117	Abcam
P-cadherin	13-2000Z	Invitrogen
Smooth Muscle Actin	MS-113-P0	ThermoFisher Scientific
Tenascin C	NB110-68136	Novus Biologicals

**Appendix Table S2.** Secondary antibodies.

<b>Antibody</b>	<b>Reference</b>	<b>Company</b>
Anti-Rabbit FITC	711-095-152	Jackson immunoresearch
Anti-Rabbit Alexa Fluor 594	711-585-152	Jackson immunoresearch
Anti-Rat Alexa Fluor 594	712-585-150	Jackson immunoresearch
Anti-Mouse Alexa Fluor 488	715-545-151	Jackson immunoresearch

**Appendix Table S3.** List of RT-qPCR primers.

<b>Primer</b>	<b>Sequence</b>
ACTIN RW	GTGGTGGTGAAGCTGTAGCC
ACTIN FW	GGCACCACACCTTCTACAATG
WLS FW	ATGACCTCCAATGGTGGCTG
WLS RW	CCCCTATTGGCCCAAACCAT