

## Additional file 1: Supplemental Tables

**Supplemental Table 1. Primers<sup>a</sup> used in this study**

<b>Gene</b>	<b>Accession No</b>	<b>Forward</b>	<b>Reverse</b>	<b>Size</b>
<i>PAX6</i>	NM_000280.4	GTGTCCAACGGATGTGTGAG	CTAGCCAGGTTGCGAAGAAC	254
<i>ZIC1</i>	NM_003412.4	GCGCTCCGAGAATTTAAAGA	CGTGGACCTTCATGTGTTTG	212
<i>SOX2</i>	NM_003106.4	ACTGGCGAACCATCTCTGTG	AATTACCAACGGTGTCAACCTG	118
<i>SOX1</i>	NM_005986.3	CCTCCGTCCATCCTCTG	AAAGCATCAAACAACCTCAAG	201
<i>OTX2</i>	NM_021728.4	GAAGCACTGTTTGCCAAGACC	CTCCATTCTGCTGTTGTTGCT	151
<i>CDH2</i>	NM_001792.5	GATATGCTTCAACACGCTTT	CCAAGATAATAAAATCGCTCCAT	98
<i>NESTIN</i>	NM_006617.2	GCAGGAGAAACAGGGCCTAC	AAAGCTGAGGGAAGTCTTGGA	175
<i>GAPDH</i>	NM_001289745	CTTCGCTCTCTGCTCCTCCT	GTAAAAGCAGCCCTGGTGA	152

<sup>a</sup>Primers were able to detect all of the isoforms of each gene.

**Supplemental Table 2. Primary antibodies used for the immunofluorescence and western blotting assays**

Primary antibody	Species	Dilution	Company	Cat.no	AB Registry ID (RRID)
OCT4	Goat	1:200	Santacruz	sc-8628	AB_653551
SOX2	Rabbit	1:200	Cell signaling	#3579S	AB_2195767
NANOG	Rabbit	1:200	Cell signaling	#3580S	AB_2150399
TRA-1-60	Mouse	1:200	Milipore	MAB4360	AB_2119183
TRA-1-81	Mouse	1:200	Milipore	MAB4381	AB_177638
NESTIN	Mouse	1:100	Milipore	MAB5326	AB_2251134
SOX1	Goat	1:300	R&D systems	AF3369	AB_2239879
NCAD	Mouse	1:200	BD sciences	610920	AB_2077527
MAP2	Mouse	1:1000	Sigma-Aldrich	M1406	AB_477171
TAU1	Mouse	1:200	Milipore	MAB3420	AB_94855
GFAP	Rabbit	1:1000	Abcam	Ab7260	AB_305808
GLAST (ASCA-1)	Mouse	1:300	MACS Meltenyi Biotec	130-095-822	AB_10829302
S100 $\beta$	Rabbit	1:300	Proteintech	15146-1-AP	AB_2254244
pY542-SHP2	Rabbit	1:500	Cell signaling	#9793S	AB_10694365
pY580-SHP2	Rabbit	1:500	Cell signaling	#9793S	AB_10694365
SHP2	Rabbit	1:500	Cell signaling	#9793S	AB_10694365
Phospho-p42/44 MAPK (p-ERK1/2)	Rabbit	1:1000	Cell signaling	#4370	AB_2315112
p42/44 MAPK (ERK1/2)	Rabbit	1:1000	Cell signaling	#9102	AB_330744
p-SMAD1	Rabbit	1:500	Cell signaling	#9511	AB_331671
SMAD1	Rabbit	1:500	Cell signaling	#9743	AB_2107780
p-SMAD2	Rabbit	1:500	Cell signaling	#3108	AB_490941
SMAD2	Rabbit	1:500	Cell signaling	#3102	AB_331675
p-STAT3	Mouse	1:500	Santacruz	sc-8059	AB_628292
STAT3	Mouse	1:500	Santacruz	Sc-8019	AB_628293
Cleaved Notch1 (Val1744)	Rabbit	1:500	Cell signaling	#4147	AB_2153348
Notch1 (C-20)	Goat	1:500	Santacruz	sc-6014	AB_650336
p-CREB(Ser133)	Rabbit	1:1000	Cell signaling	9198S	AB_2561044
CREB	Mouse	1:1000	Cell signaling	9104S	AB_10691832
HRP-conjugated GAPDH	Rabbit	1:1000	Santacruz	Sc-25778	AB_10167668