

Table S3. Antibody Details

	Antibody	Source	Cat. no.	Dilution (1:)
Primary	Brachyury	R&D	AF2085	200
	Cdx2	Biogenex	MU392A-UC	200
	Cytokeratin7	Santa Cruz	sc70936	200
	pERK XP	Cell Signalling	4370	1000
	tERK	Cell Signalling	9102	1000
	Gata6	R&D	AF1700	100
	GFP Alexa488	Molecular probes	A21311	100
	Ki67 Alexa647	eBioscience	51-5698	200
	Nanog	eBioscience	14-5761	200
	PDFR α PE	eBioscience	14-1401	200
	Tubulin	Abcam	ab6160	5000
	Tuj1	Covance	MMS-435P	1000
Secondary	Alexa fluors	Molecular probes		800
Nuclear	DAPI	Molecular probes	D1306	0.1 μ g/ml

Table S4. qRT-PCR Primer Sequences

Gene	Forward Primer 5'-3'	Reverse Primer 5'-3'
AFP	CATGCTGCAAAGCTGACAA	CTTTGCAATGGATGCTCTCTT
Brachyury UPL	CAGCCCACCTACTGGCTCTA	GAGCCTGGGGTGATGGTA
Calcr	ACATGATCCAGTTCACCAGGCAGA	AGGTTCTTGGTGACCTCCCACTT
Cdx2	GGAAGCCAAGTGAAAACCAG	CTTGGCTCTGCGGTTCTG
Dab2	GGAAGCTTACATTGCGCTTT	CTGGTCTCCGTATTGGCTAAA
Fgf4	CCGGTCTTCGTGGCTATGA	CTTACTGAGGGCCATGAACAT
FoxA2	CATCCGACTGGAGCAGCTA	GCGCCCACATAGGATGAC
FoxA2 UPL	GAGCAGCAACATCACCACAG	CGTAGGCCTTGAGGTCCAT
Gata4	GCCTGCGGCCTCTACATGAA	CAGGACCTGGCGTCTTA
Gata4 UPL	TTCGCTGTTTCTCCCTCAAG	CAATGTTAACGGGTTGTGGA
Gata6	GGTCTCTACAGCAAGATGAATGG	GGTCTCTACAGCAAGATGAATGG
Gata6 UPL	GGTCTCTACAGCAAGATGAATGG	TGGCACAGGACAGTCCAAG
Gdf3	TTCAGCTTCTCCAGACCAG	CAAGTTAAAATAGAGGACCTTCTGGA
Gsc UPL	GAGACGAAGTACCCAGACGTG	GGCGGTTCTTAAACCAGACC
Hex	CTACACGCACGCCCTACTC	CAGAGGTCGCTGGAGGAA
Hex UPL	TCAGAATCGCCGACTAAAT	GTCCAACGCATCCTTTTTGT
HNF4a	CTTGGCTCTGCGGTTCTG	CCGAGGGACGATGTAGTCAT
Klf4 UPL	CGGGAAGGGAGAAGACT	GAGTTCCTCACGCCAACG
Krt7	ACCCTCAACAACAAATTCGCGTCC	TGCTCTTGGCTGACTTCTGTTCTT
Meg3	TGGTGGTTAACATGGTGGGAGGAA	ATGGTGACTGTGTGCTCTGTGACT
Mirg	TCTCGCTTACGACAACCGACAACA	TTCCTAAGCAAGGGCTGCTCAGAT
Myc	CCTAGTGCTGCATGAGGAGA	TCTTCCTCATCTTCTTGCTCTTC
Nanog	ATGAAGTGCAAGCGGTGGCAGAAA	CCTGGTGGAGTCACAGAGTAGTTC
Nestin UPL	CTGCAGGCCACTGAAAAGT	TTCCAGGATCTGAGCGATCT
NeuroD1 UPL	CGCAGAAGGCAAGGTGTC	TTTGGTCATGTTTCCACTTCC
NeuroD3 UPL	CCTTCTTTGTGACTGGCTCA	CCCTTTTCCAACCACACTG
Ngn2 UPL	ACATCTGGAGCCGCGTAG	CCCAGCAGCATCAGTACCTC
Nnat	ATATGGGCGTAGGCACCACATTCT	ATGTAGGGCTTCAGCTGGTGATGT
Oct4	GGCGTTCTCTTTGGAAAGGTGTTT	CTCGAACCACATCCTTCTCT
Rex1	TCTTCTCTCAATAGAGTGAGTGTGC	CCAGGACAGCTCAGGATACAG
Rian	TGAGATTCCTGCTCTGGTGGTTGT	TGCTGATAACAGAGTGCAGGAGCA
Serpine2	TCAAGGGTTTGTGGAAGTCTCGGT	AGAGCTGAGCCAACATGGGTAFTT
Sox2	GGCGGCAACCAGAAGAACAG	GCTTGGCCTCGTCGATGAAC
Stella	GATGCACAACGATCCAGATTT	TGGAAATTAGAACGTACATACTCCA
TBP	GGGGAGCTGTGATGTGAAGT	CCAGGAAATAATTCTGGCTCA
TBP UPL	GGGGAGCTGTGATGTGAAGT	CCAGGAAATAATTCTGGCTCA
Tead4	TCAGCCAGGCATATCACCAAGACA	AGCCTTCTGCAGTAGCCATTCTCA
Utf1	GTCCCTCTCCGCGTTAGC	GGGGCAGGTTTCGTCATTT

Table S5. Single-Cell qRT-PCR DELTAgene Assay Sequences

Gene	Forward Primer	Reverse Primer
ACTB	CCCTAAGGCCAACCGTGAAA	CAGCCTGGATGGCTACGTAC
Dlk1	ATGGATTCTGCGAGGCTGAC	GGGGCAGTTACACACTTGTC
Eomes	GCGGCAAAGCGGACAATAAC	ATCCAGTGGGAGCCAGTGTTA
GAPDH	AGACGGCCGCATCTTCTT	TTCACACCGACCTTCACCAT
Gata3	CCTACCGGGTTTCGGATGTAA	CCGCAGTTCACACACTCC
Klf4	CAGGCTGTGGCAAACCTATAC	CGTCCCAGTCACAGTGGTAA
Nanog	TCTGGGAACGCCTCATCAA	GAGGCAGGTCTTCAGAGGAA
Oct4	TCCCTACAGCAGATCACTCAC	CGCCGGTTACAGAACCATAC
Serpine2	CTCTGCCTCTGAGTCCATCA	CGATCAGATTTGGGGAAAGCA
Sox2	TGAAGGAGCACCCGGATTATA	CGGGAAGCGTGTACTTATCC
Stella	TGAAGAGGACGCTTTGGATGA	CCGGGGTTTAGGGTTAGCTT
Tcfap2a	CCAATGAGCAAGTGCAAGAAA	GAGCCAGCAGGTCAGTGAA