

SUPPLEMENTARY TABLE 2

Primers used for qPCR experiments in Figure 1 and Supplementary Figure 1.

Gene	Forward primer	Reverse primer
<i>BRACH</i>	TATGAGCCTCGAATCCACATAGT	CCTCGTTCTGATAAGCAGTCAC
<i>FOXA2</i>	AAAAAGCCTCCGGTTTCCAC	TCCCTGCAACAACAGCAATG
<i>FOXG1</i>	AACCTGTGTTGCGCAAATGC	AAACACGGGCATATGACCAC
<i>GAPDH</i>	CATGAGAAGTATGACAACAGCCT	AGTCCTTCCACGATACCAAAGT
<i>GSX2</i>	ATGTCGCGCTCCTTCTATGTC	ATGCCAAGCGGGATGAAGAAA
<i>HOXB4</i>	TCCTCGTTTTTCAGCTTTGGC	TCATTTGTTAGCGGGTGTCTG
<i>NKX2.1</i>	AGCACACGACTCCGTTCTC	GCCCACTTTCTTGTAGCTTTCC
<i>PAX6</i>	TGGGCAGGTATTACGAGACTG	ACTCCCGCTTATACTGGGCTA
<i>RAX</i>	GGCCATCCTGGGGTTTACC	GGTCGAGGGGCTTCGTACT
<i>SIX3</i>	AGCAGAAGACGCATTGCTTC	ACCAGTTGCCTACTTGTGTG
<i>SOX2</i>	TTCACATGTCCCAGCACTACCAGA	TCACATGTGTGAGAGGGGCAGTGTGC
<i>SOX17</i>	GTGGACCGCACGGAATTTG	GGAGATTCACACCGGAGTCA

SUPPLEMENTARY TABLE 4

List of genes used for clustering cells in single cell gene expression.

#	Gene	#	Gene	#	Gene	#	Gene	#	Gene
1	ADCY1	41	CELF4	81	EGR1	121	HSPA5	161	MCM3
2	ADRA2A	42	CENPE	82	EGR2	122	HTR2C	162	MCM4
3	AGT	43	CENPF	83	EMX2	123	ID2	163	MDK
4	AIFM3	44	CENPW	84	ENO1	124	ID4	164	MEF2C
5	ALCAM	45	CHGB	85	ENPP6	125	IFITM2	165	MEG3
6	ANXA2	46	CHPF	86	EOMES	126	IFITM3	166	MIR302B
7	APOD	47	CKAP2L	87	ERBB3	127	IGDCC3	167	MKI67
8	AQP1	48	CLDN11	88	ESRG	128	IGF1	168	MLC1
9	AQP4	49	CLDN19	89	EYA2	129	IGFBP5	169	MLF1IP
10	ASIC4	50	CLDN6	90	FABP7	130	IGFBP7	170	MSX1
11	ASPM	51	CLIC6	91	FAM107A	131	INSM1	171	MT3
12	ATP1A2	52	CLU	92	FAM60A	132	IRX2	172	MX1
13	AURKB	53	CNTNAP2	93	FAM64A	133	ISG15	173	MYBL2
14	B2M	54	COL11A1	94	FAM89A	134	ISL1	174	NCAPG
15	B3GAT2	55	COL20A1	95	FEZF2	135	KCNJ13	175	NDC80
16	BCAN	56	COLEC12	96	FGF14	136	KCTD8	176	NDRG1
17	BCAS1	57	CP	97	FGFR3	137	KIAA0101	177	NECAB1
18	BCL11B	58	CPNE6	98	FOLR1	138	KIF11	178	NEFL
19	BEX5	59	CPXM2	99	FOS	139	KIF15	179	NEFM
20	BHLHE22	60	CRABP1	100	FOXM1	140	KIFC1	180	NEGR1
21	BIRC5	61	CRABP2	101	FST	141	KRT18	181	NES
22	BST2	62	CRISP1D1	102	FTL	142	KRT8	182	NEUROD1
23	C1orf168	63	CRYAB	103	FXYD5	143	L1TD1	183	NEUROD2
24	C1orf61	64	CRYM	104	FZD8	144	LAMB1	184	NEUROD6
25	C22orf42	65	CTSC	105	GAD1	145	LDHA	185	NFIB
26	CA2	66	CXCL14	106	GAP43	146	LG11	186	NHLH1
27	CALB2	67	DDIT4	107	GINS2	147	LHFPL3	187	NHLH2
28	CASC5	68	DIRAS3	108	GPM6B	148	LHX2	188	NMU
29	CAV1	69	DLGAP5	109	GPR17	149	LHX6	189	NNAT
30	CCK	70	DLK1	110	GTSE1	150	LHX8	190	NPAS3
31	CCNB1	71	DLL1	111	GUCY1A3	151	LIN28A	191	NPAS4
32	CCNB2	72	DLX1	112	H19	152	LITAF	192	NPC2
33	CCND1	73	DLX5	113	HES5	153	LMO3	193	NPTX2
34	CD9	74	DLX6-AS1	114	HES6	154	LMO7	194	NR6A1
35	CDC20	75	DMRTA2	115	HIST1H2AC	155	LMX1A	195	NRN1
36	CDCA5	76	DPPA4	116	HIST1H4C	156	LPL	196	NSG2
37	CDCA8	77	EBF1	117	HMG2	157	MAG	197	NTN1
38	CDK1	78	ECEL1	118	HMG2	158	MAP1B	198	NTRK2
39	CDKN1A	79	EDNRB	119	HOPX	159	MAPT	199	NTS
40	CDKN1C	80	EGRF	120	HSD17B2	160	MBP	200	NUF2
#	Gene	#	Gene	#	Gene	#	Gene	#	Gene
201	NUSAP1	241	PTGDS	281	SLC2A3	321	TRH		
202	NXPH1	242	PTN	282	SLC32A1	322	TRIM67		
203	OLFML3	243	PTTG1	283	SLC4A5	323	TRIM71		
204	OLIG1	244	QPRT	284	SLIT2	324	TRPM3		
205	OLIG2	245	RAB13	285	SMC2	325	TSHZ2		
206	ONECUT2	246	RAB31	286	SMC4	326	TTR		
207	ONECUT3	247	RBM47	287	SMOC1	327	TTYH1		
208	OSTN	248	RBPMS	288	SOX10	328	TUBA1B		
209	OTX2	249	RELN	289	SOX6	329	TUBA1C		
210	PAX6	250	RGS16	290	SOX9	330	UBE2C		
211	PBK	251	RIT2	291	SPARC	331	VCAM1		
212	PBX3	252	RP11-143M1.2	292	SPARCL1	332	VIM		
213	PCDH17	253	RP11-395L14.4	293	SPC25	333	VSNL1		
214	PCNA	254	RP11-397G17.1	294	SPHKAP	334	WLS		
215	PCP4	255	RP11-82C23.2	295	SPOCK2	335	WNT7B		
216	PDGFRA	256	RP11-93B14.5	296	SPOCK3	336	ZCCHC12		
217	PDYN	257	RPS6	297	SPON1	337	ZFP36L1		
218	PGM2L1	258	RRM2	298	SST	338	ZIC1		
219	PI15	259	RSPO1	299	STMN2				
220	PIFO	260	RSPO2	300	STMN4				
221	PLA2G16	261	RSPO3	301	SULF1				
222	PLK1	262	RTN1	302	SULF2				
223	PLOD2	263	RUNX1T1	303	SYT1				
224	PLP1	264	S100B	304	SYT4				
225	PLS3	265	SAT1	305	TAC3				
226	PLTP	266	SCD	306	TACC3				
227	PMCH	267	SCG2	307	TAGLN2				
228	PMP2	268	SCG5	308	TBR1				
229	PNP	269	SCRG1	309	TENM1				
230	PODXL	270	SEMA5A	310	TENM2				
231	POU2F2	271	SERPINE2	311	TF				
232	POU4F1	272	SERPINF1	312	THSD7A				
233	PPAP2B	273	SERPINI1	313	TIMP3				
234	PPP1R17	274	SEZ6	314	TNC				
235	PRC1	275	SFRP1	315	TNNT1				
236	PRDX6	276	SIX3	316	TOP2A				
237	PROX1	277	SLA	317	TPBG				
238	PRR11	278	SLC13A4	318	TPM1				
239	PRTG	279	SLC17A7	319	TPM2				
240	PTCH1	280	SLC1A3	320	TPX2				