

Probe Number	Gene Symbol	Specific Markers	Assay ID	Amplicon Length	Ref Seq
1	Bmp4	Pluripotency	Mm00432087m1	61	NM_007554.2
2	Myc	Pluripotency	Mm00487803_m1*	83	NM_010849.4
3	Ctnnb1	Pluripotency	Mm00483033_m1	75	NM_007614.2
4	Dppa4	Pluripotency	Mm00835624_g1	100	NM_028610.2
5	Esrrb	Pluripotency	Mm00442411_m1*	55	2 RefSeqs
6	Fbxo15	Pluripotency	Mm01265526_m1*	72	NM_015798.3
7	Fgf4	Pluripotency	Mm00438917_m1*	109	NM_010202.5
8	Jarid2	Pluripotency	Mm00445560_m1	103	NM_021878.2
9	Kdm4c	Pluripotency	Mm00460578_m1*	61	NM_144787.1
10	Klf4	Pluripotency	Mm00516104_m1*	77	NM_010637.3
11	Lif	Pluripotency	Mm00434761_m1	64	NM_008501.2
12	Lin28	Pluripotency	Mm00524077_m1*	79	NM_145833.1
13	Mbd3	Pluripotency	Mm00488961_m1*	69	NM_013595.2
14	Nacc1	Pluripotency	Mm01251609_g1*	146	NM_025788.2
15	Nanog	Pluripotency	Mm01617762_g1	82	NM_028016.2
16	Nr0b1	Pluripotency	Mm00431729_m1*	78	NM_007430.4
17	Nr5a2	Pluripotency	Mm00446088_m1*	104	2 RefSeqs
18	Pou5f1	Pluripotency	Mm00658129_gH	148	NM_013633.2
19	Prmt6	Pluripotency	Mm00619134_m1	83	NR_024139.1
20	Rest	Pluripotency	Mm00803268_m1	76	
21	Sall4	Pluripotency	Mm01240680_m1*	66	3 RefSeqs
22	Setdb1	Pluripotency	Mm00450791_m1*	76	
23	Smad1	Pluripotency	Mm00484721_m1*	63	NM_008539.3
24	Smarcc1	Pluripotency	Mm00486224_m1*	63	NM_009211.2
25	Socs3	Pluripotency	Mm01249143_g1	113	NM_007707.2
26	Sox2	Pluripotency	Mm00488369_s1*	68	NM_011443.3
27	Stat3	Pluripotency	Mm01219775_m1*	75	3 RefSeqs
28	Tbx3	Pluripotency	Mm00809779_s1	132	2 RefSeqs
29	Tcf3	Pluripotency	Mm01188714_m1*	66	2 RefSeqs
30	Tefcp2l1	Pluripotency	Mm00470119_m1*	78	NM_023755.2
31	Tcl1	Pluripotency	Mm00493477_m1*	89	NM_009337.2
32	Tdgfl	Pluripotency	Mm00783944_g1	118	
33	Tert	Pluripotency	Mm00436931_m1	110	NM_009354.1
34	Trp53	Pluripotency	Mm01731287_m1*	133	2 RefSeqs
35	Wdr5	Pluripotency	Mm01332446_m1*	74	NM_080848.2
36	Zfp281	Pluripotency	Mm01296016_s1*	79	2 RefSeqs
37	Zfp42	Pluripotency	Mm01194090_g1	81	NM_009556.3
38	Zfp57	Pluripotency	Mm00456405_m1*	77	2 RefSeqs
39	Zfx	Pluripotency	Mm00494277_s1	75	2 RefSeqs
40	En1	Ectoderm	Mm00438709_m1*	90	NM_010133.2
41	Fgf5	Ectoderm	Mm00438919_m1	135	NM_010203.4
42	Gfap	Ectoderm	Mm00546086_m1	70	NM_010277.3
43	Gli2	Ectoderm	Mm01293117_m1	62	NM_001081125.1
44	Igf2	Ectoderm	Mm00439564_m1*	107	3 RefSeqs
45	Lhx3	Ectoderm	Mm01333633_m1*	94	NM_001039653.1
46	Nav1	Ectoderm	Mm00557911_m1*	98	NM_173437.2
47	Ncam1	Ectoderm	Mm00456815_m1	83	NM_010875.3
48	Nes	Ectoderm	Mm00450205_m1*	72	NM_016701.3
49	Nog	Ectoderm	Mm00476456_s1	125	NM_008711.2
50	Notch3	Ectoderm	Mm01345646_m1	83	NM_008716.2
51	Olig1	Ectoderm	Mm00497537_s1*	83	NM_016968.4
52	Otx2	Ectoderm	Mm00446859_m1*	74	NM_144841.3
53	Pax6	Ectoderm	Mm00443072_m1*	56	NM_013627.4
54	Pten	Ectoderm	Mm00477210_m1	90	NM_008960.2
55	Rail	Ectoderm	Mm01163529_m1*	85	2 RefSeqs
56	Smo	Ectoderm	Mm01162710_m1*	58	NM_176996.4
57	Sox1	Ectoderm	Mm00486299_s1*	71	NM_009233.3
58	Sox10	Ectoderm	Mm01300162_m1*	77	NM_011437.1
59	Ppp3ca	Mesoderm	Mm01317678_m1*	92	NM_008913.4
60	Cd34	Mesoderm	Mm00519283_m1*	61	2 RefSeqs

61	Gata1	Mesoderm	Mm01352636 ml*	73	NM_008089.1
62	Gsc	Mesoderm	Mm00650681 gl*	122	NM_010351.1
63	Hoxb4	Mesoderm	Mm00657964 ml*	116	NM_010459.6
64	Igflr	Mesoderm	Mm00802841 ml	69	NM_010513.2
65	Isl1	Mesoderm	Mm00627860 ml	99	NM_021459.4
66	Kdr	Mesoderm	Mm00440105 ml	74	NM_010612.2
67	Mef2a	Mesoderm	Mm01318991 ml*	64	NM_001033713.1
68	Myf5	Mesoderm	Mm004345125	71	NM_008656.5
69	Myh7b	Mesoderm	Mm01249956 gl	111	NM_001085378.1
70	Myod1	Mesoderm	Mm00440387 ml*	86	NM_010866.2
71	Myog	Mesoderm	Mm00446194 ml*	69	NM_031189.2
72	Nkx2-5	Mesoderm	Mm00657783 ml	117	NM_008700.2
73	Pdgfra	Mesoderm	Mm01211694 ml	72	2 RefSeqs
74	Ptpn11	Mesoderm	Mm00448434 ml*	80	2 RefSeqs
75	Sos1	Mesoderm	Mm00436731 ml*	56	NM_009231.2
76	T	Mesoderm	Mm00436877 ml	86	NM_009309.2
77	Tgm2	Mesoderm	Mm00436987 ml*	72	NM_009373.3
78	Trib3	Mesoderm	Mm00454879 ml*	79	NM_175093.2
79	Afp	Endoderm	Mm00431715 ml*	96	NM_007423.4
80	Alb	Endoderm	Mm00802090 ml*	89	NM_009654.3
81	Bmp7	Endoderm	Mm00432102 ml*	72	NM_007557.2
82	Foxa2	Endoderm	Mm01976556 sl*	73	NM_010446.2
83	Gata4	Endoderm	Mm00484689 ml*	84	NM_008092.3
84	Gata6	Endoderm	Mm00802636 ml*	120	NM_010258.3
85	Mixl1	Endoderm	Mm00489085 ml*	74	NM_013729.3
86	Sox17	Endoderm	Mm00488363 ml*	86	NM_011441.4
87	Cdx2	Trophectoderm	Mm00432449 ml	88	NM_007673.3
88	Elf5	Trophectoderm	Mm00468732 ml*	105	2 RefSeqs
89	Eomes	Trophectoderm	Mm01351985 ml*	58	NM_010136.2
90	Fgfr2	Trophectoderm	Mm00438941 ml	87	2 RefSeqs
91	Hand1	Trophectoderm	Mm00433931 ml*	91	NM_008213.2
92	Pgf	Trophectoderm	Mm00435613 ml*	75	NM_008827.2
93	Tead4	Trophectoderm	Mm01189836 ml*	75	2 RefSeqs
94	Gapdh	Loading Control	Mm99999915 gl*	107	NM_008084.2
95	Actb	Loading Control	Mm02619580 gl	143	NM_007393.3
96	H ₂ O	Negative Control			

Table S3. Information about probes/genes used in the single cell Fluidigm experiments