

Supplementary Table 1

Anti-human antibodies		
<i>Antibody</i>	<i>Clone</i>	<i>Company</i>
Fc block	TruStain FcX	Biolegend
CD34-PE	581	Biolegend
CD34-BV605	581	Biolegend
CD34-BV510	581	Biolegend
CD45-AF647	HI30	Biolegend
CD43-PE	1G10	BD
CD43-APC-H7	1G10	BD
CD41-PE-Cy7	HIP8	Biolegend
CD235a-FITC	HIR2	Biolegend
FLK/KDR-AF647	7D4-6	Biolegend
CD140a-PE	Alpha-R1	BD
Anti-mouse antibodies		
<i>Antibody</i>	<i>Clone</i>	<i>Company</i>
CD16/32 (Fc block)	93	BD
CD41-PE-Cy7	MWReg30	Biolegend
CD45-APC	30-F11	Biolegend
Ter119-FITC	TER119	BD

Supplementary Table 2

Category	Antibody	Company	Catalog Number	Dilution
Primary Antibody	OCT4	Abcam	Ab1985	1:250
	OCT4 (C10)	Santa-Cruz	SC-5279	1:100
	SOX2	R & D Systems	MAB2018	1:100
	NANOG	Abcam	Ab80892	1:100
	SSEA3	Gift from Professor Peter Andrews, University of Sheffield. Use at 1:10		
	SSEA4			
	TRA-181			
	B III TUBULIN (TUJ1)	R & D Systems	MAB1159	1:150
	ALPHA-SMOOTH MUSCLE ACTIN	R & D Systems	MAB1420	1:150
	ALPHA-FETAPROTEIN	R & D Systems	MAB1368	1:150
Secondary Antibody	Alexa Fluor 488 and Alexa Fluor 594 (for IF)	Invitrogen		1:500 - 1:1000

Supplementary Table 3

Gene Name	Applied Biosystems Catalog Number
FGF4	Hs00173564_m1
GAPDH	4326317E
GATA6	Hs00232018_m1
GSC	Hs00418279_m1
NANOG	Hs02387400_g1
OCT4	Hs00999634_gH
PAX6	Hs01088114_m1
PRDM14	Hs01119056_m1
SOX1	Hs01057642_s1
SOX17	Hs00751752_s1
SOX2	Hs00602736_s1
STELLA	Hs01931905_g1
T	Hs00610078_m1