

Supplemental Table 1. Endothelial markers in sorted cells.

Endothelial Genes		Signal Intensity					
Common Name(s)	Gene Symbol	CD31+ Endothelial Cells		GFP+ Osteoblasts		Fold Change	
CD34 antigen	Cd34	6,395	± 1,121	757	± 447	8.4	± 1.5
VE-cadherin, CD144	cdh5	15,005	± 1,561	393	± 98	38.1	± 4.0
Endoglin, CD105	Eng	13,849	± 1,679	1,784	± 392	7.8	± 0.9
VEGFR-1	Flt1	11,349	± 1,542	728	± 363	15.6	± 2.1
VEGFR-2	Kdr	16,756	± 1,864	954	± 133	17.6	± 2.0
PECAM-1, CD31	Pecam1	866	± 325	Abs		NA	
MECA-32	Plvap	13,663	± 1,875	2,821	± 1,075	4.8	± 0.7
E-selectin	Sele	753	± 252	65	± 28	11.6	± 3.9
P-selectin	Selp	3,683	± 1,094	498	± 121	7.4	± 2.2
TIE-2	Tek	6,950	± 792	443	± 91	15.7	± 1.8
VCAM-1	Vcam1	11,963	± 2,782	8,548	± 1,928	1.4	± 0.3
VonWillebrand factor	Vwf	11,074	± 4,690	424	± 276	26.1	± 11.1

Abs, gene called absent on chip. NA, not applicable.

Supplemental Table 2. Osteoblast markers in sorted cells

Osteoblast Genes		Signal Intensity					
Common Name	Gene Symbol	GFP+ Osteoblasts		CD31 ⁺ Endothelial Cells		Fold Change	
Alkaline phosphatase	Alpl	10,448	± 1,525	2,109	± 393	5.0	± 0.7
Type I collagen	Col1a1	40,881	± 12,479	26,788	± 6,605	1.5	± 0.5
Bone sialoprotein (Bsp)	Ibsp	28,787	± 12,877	10,966	± 5,255	2.6	± 1.2
Osteoglycin, mimecan	Ogn	13,847	± 1,401	251	± 78	55.3	± 5.6
Osteomodulin, osteoadherin	Omd	10,020	± 2,687	600	± 357	16.7	± 4.5
Periostin	Postn	38,346	± 8,306	1,575	± 721	24.4	± 5.3
Runt-related transcription factor 2	Runx2	8,209	± 3,784	1,482	± 368	5.5	± 2.6
Osterix (Osx)	Sp7	3,870	± 2,083	1,640	± 877	2.4	± 1.3