

SUPPLEMENTARY TABLES

Supplementary Table 1. Differentially expressed and regulated gene calls between Nes^{peri} and Nes^{retic} cells from RNA-seq analysis	
Differentially expressed genes	540
Differentially expressed coding sequences	475
Differentially expressed isoforms	502
Differentially expressed TSS groups	521
Genes with differential promoter use	47
Genes with differential CDS output	82

Gene calls with p-value<0.05 from Cuffdiff differential expression analysis were summarized and shown.

Supplementary Table 2. Distinct vascular niches in bone marrow		
	Arteriole niche	Sinusoid niche
Morphology	pericytic	reticular
Phenotype	NG2 ⁺ ; Nestin ^{brigt} ; LepR ⁻	LepR ⁺ ; Nestin ^{dim} ; NG2 ⁻
HSC niche factor expression	+++	++
Sympathetic innervation	+++	+
Endothelial adhesion molecule expression	+	+++
Endothelial fenestration	No	Yes

Supplementary Table 3. Primers used for Q-PCR

Primers	Sequence	Annealing(°C)
<i>Cxcl12_F</i> <i>Cxcl12_R</i>	CGCCAAGGTCGTCGCCG TTGGCTCTGGCGATGTGGC	60
<i>Angpt1_F</i> <i>Angpt1_R</i>	CTCGTCAGACATTCATCATCCAG CACCTTCTTTAGTGCAAAGGCT	60
<i>Vcam1_F</i> <i>Vcam1_R</i>	GACCTGTTCCAGCGAGGGTCTA CTTCCATCCTCATAGCAATTAAGGTG	60
<i>Kitl_F</i> <i>Kitl_R</i>	CCCTGAAGACTCGGGCCTA CAATTACAAGCGAAATGAGAGCC	60
<i>Opn_F</i> <i>Opn_R</i>	TCCCTCGATGTCATCCCTGTTG GGCACTCTCCTGGCTCTCTTTG	60
<i>Gapdh_F</i> <i>Gapdh_R</i>	TGTGTCCGTCGTGGATCTGA CCTGCTTCACCACCTTCTTGA	60
<i>Ki67_F</i> <i>Ki67_R</i>	ACCGTGGAGTAGTTTATCTGGG TGTTTCCAGTCCGCTTACTTCT	60
<i>Pcna_F</i> <i>Pcna_R</i>	TTTGAGGCACGCCTGATCC GGAGACGTGAGACGAGTCCAT	60