Table S1. RNA-Sequencing FPKM Value of Niche Components

Canonical Wnt ligands in niche components

	CD31-GF P (VEGFR2+)	Nestin-GF P (CD31-)	N-cad+ OB	Total OB
Wnt2	0.09	0.11	0	0.13
Wnt2b	0.41	0.40	3.39	0.84
Wnt3	0	0	0	0
Wnt3a	0	0	0	0
Wnt7a	0	0	0	0
Wnt7b	0	0.76	3.62	1.08
Wnt8a	0	0.03	0	0.14
Wnt8b	0	0.03	0	0
Wnt9a	0.82	0.98	4.68	2.59
Wnt9b	0.34	0	0	0
Wnt10a	0	0.11	0.28	0
Wnt10b	0.24	2.77	4	5.79

Inhibitory factors of canonical Wnt in niche components

	CD31-GF P (VEGFR2+)	Nestin-GF P (CD31-)	N-cad+ OB	Total OB
Sfrp1	1.02	2.73	8.58	4.07
Sfrp4	5.27	26.3	168	79.1
Dkk1	0.05	0.51	0.92	0.51
Dkk3	1.25	10	54.6	25.7
Wif1	14.6	56.4	98	62.6

Non-canonical Wnt ligands in niche components

	CD31-GF P (VEGFR2+)	Nestin-GF P (CD31-)	N-cad+ OB	Total OB
Wnt1	0.03	0.03	0.09	0.05
Wnt4	0.59	12.7	4.29	16.6
Wnt5a	0.43	7.4	13.8	6.6
Wnt5b	4.31	41.4	18.8	17.4
Wnt6	0	0.09	3.22	0.13
Wnt11	0.53	37	9.76	27.1
Wnt16	0.07	1.17	10.7	8.64

Table S2. RNA-Sequencing FPKM Value of Calcium Channel

	LT-HSC	ST-HSC
Cacna1c	0.04	0.03
Cacna1d	0.2	0.3
Cacna1s	0	0
Cacna1f	0	0.1
Cacnb1 (LTCC)	11	7.1
Cacnb2	6	4
Cacnb4	0.24	7.1

Table S3. Primer Sequences and TaqMan Serial Numbers

Primers	Sequence
Flamingo (Celsr2) Fwd	TGTACAGCAGTAGCCCGTTACG
Flamingo (Celsr2) Rev	CGCCAGCGCTTCCACTT
Frizzled1 Fwd	CAAGGTTTACGGGCTCATGT
Frizzled1 Rev	GTAACAGCCGGACAGGAAAA
Frizzled2 Fwd	GAGGTGCATCAGTTCTACCC
Frizzled2 Rev	ATGGCCTGCTCCAGCACT
Frizzled3 Fwd	GCAGATAGGTGGGCACAGTT
Frizzled3 Rev	AAAGAAATGGCCGAAAATCC
Frizzled4 Fwd	CACGCCGCTCATCCAGTA
Frizzled4 Rev	GCCGATGGGGATGTTGAT
Frizzled5 Fwd	CAACCATGACACGCAGGAC
Frizzled5 Rev	GGGCGTGTACATAGAGCACA
Frizzled6 Fwd	TTCCCTAACCTGATGGGTCA
Frizzled6 Rev	ACATTTCAATGTTTGGTGAACA
Frizzled7 Fwd	ATATCGCCTACAACCAGACCATCC
Frizzled7 Rev	AAGGAACGGCACGGAGGAATG
Frizzled8 Fwd	ATGGAGTGGGGTTACCTGTTG
Frizzled8 Rev	CACCGTGATCTCTTGGCAC
Frizzled9 Fwd	GTCCGCGTTGTGTTTCTTCT
Frizzled9 Rev	CAGACCCTCCTGGATCACAT
Frizzled10 Fwd	GTACCCCGAACGTCCTATCA
Frizzled10 Rev	GTGCTCTCCAGTCCTTCCTG
Cox2 Fwd	CCACCACTACTGCCACCTC
Cox2 Rev	TGGTCAAATCCTGTGCTCAT
IL2 Fwd	AACCTGAAACTCCCCAGGAT
IL2 Rev	CGCAGAGGTCCAAGTTCATC
CD34 Fwd	ACAGGAGAATGCAGGTCCAC
CD34 Rev	TGGTAGGAACTGATGGGGATA
IFNγ Fwd	GCTTTGCAGCTCTTCCTCAT
IFNγ Rev	TTTTGCCAGTTCCTCCAGAT
p57 Fwd	ACAGGACAAGCGATCCAGAC
p57 Rev	GCGCTATCACTGGGAAGGT
Pten Fwd	AGATCGTTAGCAGAAACAAAAGG
Pten Rev	TCTGCAGGAAATCCCATAGC
Txnip Fwd	GCAGTGCAAACAGACTTTGG
Txnip Rev	AGCTCGAAGCCGAACTTGTA
Tnfα Fwd	CCACCACGCTCTTCTGTCTA
Tnfα Rev	AGGGTCTGGGCCATAGAACT
N-cadherin Fwd	AGCGCAGTCTTACCGAAGG
N-cadherin Rev	TCGCTGCTTTCATACTGAACTTT
Osterix Fwd	ATGGCGTCCTCTCTGCTTG

Osterix Rev	TGAAAGGTCAGCGTATGGCTT
Runx2 Fwd	CGGCCCTCCCTGAACTCT
Runx2 Rev	TGCCTGCCTGGGATCTGTA
Rpl19 Fwd	ATGAGTATGCTCAGGCTACAGA
Rpl19 Rev	GCATTGGCGATTTCATTGGTC
Gapdh Fwd	TGGCAAAGTGGAGATTGTTGCC
Gapdh Rev	AAGATGGTGATGGGCTTCCCG

TaqMan assays	Serial number (Applied Biosystems)
Wnt1	Mm-01300555_g1
Wnt2	Mm-00470018_m1
Wnt2b	Mm-00437330_m1
Wnt3	Mm-00437336_m1
Wnt3a	Mm-00437337_m1
Wnt4	Mm-01194003_m1
Wnt5a	Mm-00437347_m1
Wnt5b	Mm-01183986_m1
Wnt6	Mm-00437353_m1
Wnt7a	Mm-00437354_m1
Wnt7b	Mm-01301717_m1
Wnt8a	Mm-00436822_m1
Wnt8b	Mm-00442107_m1
Wnt9a	Mm-00460518_m1
Wnt9b	Mm-00457102_m1
Wnt10a	Mm-00437325_m1
Wnt10b	Mm-00442104_m1
Wnt11	Mm-00437328_m1
Wnt16	Mm-00446420_m1
Dkk1	Mm-00438422_m1
Dkk3	Mm-00443800_m1
Sfrp4	Mm-00840104_m1
Wif1	Mm-00442355_m1
Axin2	Mm-00443610_m1
N-cadherin	Mm-00483213_m1