Supplementary Table S1. Antibodies used in this study

Antibody	Company
Primary Antibody	
Biotin-conjugated rat anti-mouse CD9 monoclonal antibody (clone KMC8)	BD Bioscience, Franklin Lakes, NJ
Rat anti-human CDH1 monoclonal antibody (clone DECMA-1)	eBioscience, San Diego, CA
Rabbit anti-CLDN3 antibody	Invitrogen, Carlsbad, CA
Rabbit anti-CLDN7 antibody	Gift from Dr. Sachiko Tsukita, Osaka Univ., Suita, Japan
Rabbit anti-CLDN8 antibody	Gift from Dr. Sachiko Tsukita, Osaka Univ., Suita, Japan
Rat anti-mouse EPCAM monoclonal antibody (clone G8.8)	BioLegend, San Diego, CA
Goat anti-rat GFRA1 antibody	R&D Systems, Minneapolis, MN
Rat anti-mouse ITGA6 monoclonal antibody (clone GoH3)	IMMUNOTECH, Marseille, France
Rat anti-mouse active ITGB1 monoclonal antibody (clone 9EG7)	BD Bioscience, Franklin Lakes, NJ
Rabbit anti-human Total ITGB1 monoclonal antibody (clone EP1041Y)	Abcam, Cambridge, MA
Rat anti-mouse KIT monoclonal antibody (clone ACK2)	e-Bioscience, San Diego, CA
Mouse anti-active RAC1-GTP monoclonal antibody	Neweast Biosciences, Malvern, PA
Rabbit anti-human RET monoclonal antibody (clone EPR2871)	EPITOMICS, Burlingame, CA
Rabbit anti-human ZBTB16 antibody	Santa Cruz Biotechnology, Dallas, TX
Secondary Antibody	
Alexa Fluor 647-conjugated donkey anti-goat IgG antibody	Invitrogen, Carlsbad, CA
Alexa Fluor 647-conjugated donkey anti-mouse IgG antibody	Invitrogen, Carlsbad, CA
Alexa Fluor 647-conjugated goat anti-rabbit IgG antibody	Invitrogen, Carlsbad, CA
Alexa Fluor 647-conjugated goat anti-rat IgG antibody	Invitrogen, Carlsbad, CA
Allophycocyanin-conjugated streptavidin	eBioscience, San Diego, CA
DyLight 649-conjugated goat anti-hamster IgG antibody	BioLegend, San Diego, CA

Supplementary Table S2. Primers for Real-Time PCR

Gene	Forward sequence	Reverse Sequence
Ccna1	ATGCATCGCCAGAGCTCCAAGAG	GGAAGTGGAGATCTGACTTGAGC
Ccnb1	GCGTGTGCCTGTGACAGTTA	CCTAGCGTTTTTGCTTCCCTT
Ccnd2	TTCATTGAGCACATCCTTCG	TTCATCATCCTGCTGAAGCC
Ccne1	ATGTTACAGATGGCGCTTGC	CCGTGTCGTTGACATAGGC
Cldn3	ATGTCCATGGGCCTGGAGAT	TCAGACGTAGTCCTTGCGGT
Gfra1	GTCAAGGTCTGTCAGCAACTGTCT	TTGCCACTGTTGCTGCAATC
Hprt	GCTGGTGAAAAGGACCTCT	CACAGGACTAGAACACCTGC
Itgb1	ATCGTGCATGTTGTGGAGAC	CTGCTGTGAGCTTGGTGTTG
Nanos2	CCATATGCAACTTCTGCAAGC	TGAGTGTATGAGCCTGGTCG
Nanos3	CTTCTGTCTACTGCTACACCACC	TTGGAACCTGCATAGACACC
Neurog3	AGCGGACCACAGCTTCTATG	AGATGCTTGAGAGCCTCCAC
Ret	CTGACCATGGGTGACCTCATC	CAGCCCAAAGTCGGAAATCTT
Zbtb16	GAGACACACAGACAGACCCATACT	CACACATAACACAGGTAGAGGTACG
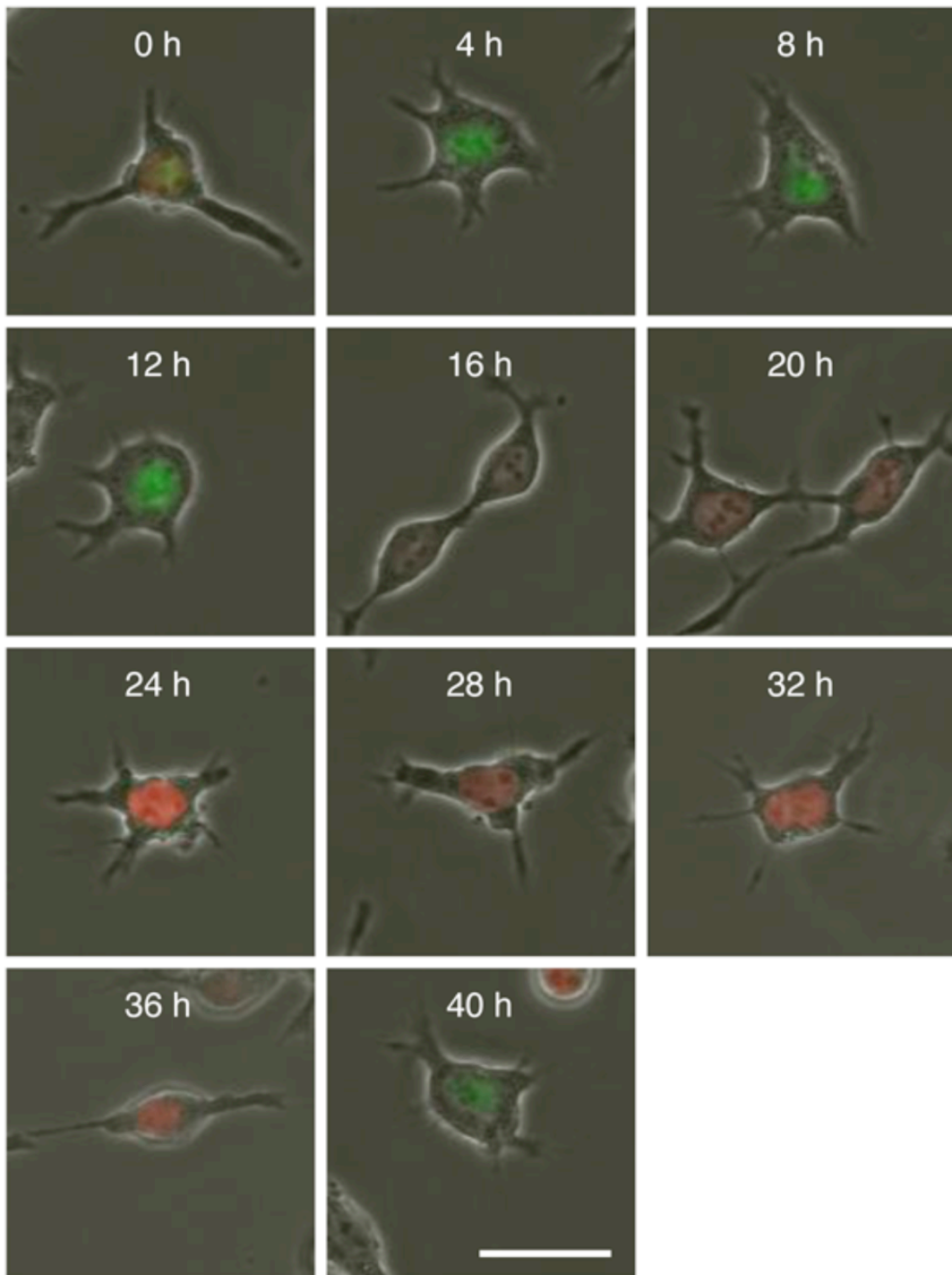
Supplementary Fig. S1 Time lapse analysis of Fucci-ROSA GS cells.

Fucci-ROSA GS cells on laminin-coated plates were analyzed using a computer-assisted fluorescence microscope. Bar = 10 μm.