

Table SI. Primers used for PCR analysis.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
KCNH2	GATCGGCAAGCCCTACAACA	GAGCGCTGTGACGTACTTGT
GAPDH	AAGGTCGGTGTGAACGGATT	CTTTGTCACAAGAGAAGGCAGC
GATA4	TGTGCCAACTGCCAGACTAC	GAATCCCCTCCTTCCGCATT
MEF2C	GCTTCAATACTGCCAGTGCG	TGCTAGTGCAAGCTCCCAAC
Nkx2.5	CTCAACGCCTACGGCTACAA	CGACGCCAAAGTTCACGAAG
Tnnt2	GAAGAGACAGACAGAGCGAGAGAAG	TATTTCTGCTGCTTGAACTTTTCTG
Myh6	GGAAGACAAGGTCAACACACTGAT	TGCTGACTGATGTCAAACCTTTCTTC
ISL1	CCGCCCTGGAAAGTACTGAG	GGACTGGCTACCATGCTGTT
TBX5	CCAAAGACAGGTCCTGCGAT	TTCGTGGAACCTCAGCCACA
Hand2	GAACCCCTATTTCCACGGCT	ACTCGGGACTGTAGGACAGG
CD31	GGTAATAGCCCCGGTGGATG	TTCTTCGTGGAAGGGTCTGC
Tagln2	AACGATGGACACTACCGTGG	TTGAAGGCCAATGACGTGCT
ERG	CACCCCTCAGTCCAAAGCTG	ACCTGGATTAGCAAGGCGAC
GATA6	GGTCATTACCTGTGCAACGC	TTGGCACAGGACAGTCCAAG
GSK-3 β	CTGGCCACCATCCTTATCCC	GAAGCGGCGTTATTGGTCTG
Bcl-2	AGCATGCGACCTCTGTTTGA	TCACTTGTGGCCCAGGTATG
HCN4	CGGTCACCATCATCTAGCCC	TGCCATAAAGGATGGCCGTT
TBX3	TACTTTGGCCTTCCCAAGCG	GGGAACAGGTATGTGCGGAA
CX43	CTCACGTCCCACGGAGAAAA	CGCGATCCTTAACGCCTTTG
Foxh1	GGCCTCTCGACAACTCTCAG	GGCCTGAATTACCAAGGCGA
Nestin	GGTAGGGCTAGAGGACCCAA	TGGGCAATTCAAGGATCCCC
MAP2	ACCAACACTAGCGGAACGATG	CCTCCAGTCACTTTTGCTTGC
Sox2	TAAGTACACGCTTCCCGGAG	CATCATGCTGTAGCTGCCGT

Table SII. Antibodies used in the present study.

Name	Manufacturer	Cat no.
p-FAK	Abcam	ab81298
FAK	Abcam	ab40794
p-AKT(S473)	Abcam	ab81283
AKT	Abcam	ab179463
p-GSK-3 β (S9)	Abcam	ab131097
GSK-3 β	Abcam	ab2602
GAPDH	Proteintech Group, Inc.	60004-1-Ig
β -catenin	Abcam	ab32572
Cleaved-Caspase3	Abcam	ab49822
Caspase3	Abcam	ab44976
Bcl-2	Abcam	ab59348
Bim	Cell Signaling Technology, Inc.	2933T
PUMA	Santa Cruz Biotechnology, Inc.	sc-374223
Integrin β 1	Santa Cruz Biotechnology, Inc.	sc-6622
KCNH2	Abcam	ab136467
p-AKT(Thr308)	Santa Cruz Biotechnology, Inc.	sc16646R
Goat anti-rabbit IgG	Proteintech Group, Inc.	sa00001-2
Goat anti-mouse IgG	Proteintech Group, Inc.	sa00001-1
Donkey anti-goat IgG	Proteintech Group, Inc.	sa00001-3
Mouse anti-goat IgG	Santa Cruz Biotechnology, Inc.	sc2354
cTNT	Abcam	ab45932
Myh6	Abcam	ab50967
ERG	Abcam	ab92513
α -Actin	Abcam	ab9465
Ki67	Abcam	ab15580
KCNH2	Santa Cruz Biotechnology, Inc.	sc15966
Goat IgG	Beyotime Institute of Biotechnology	A7007

p-, phosphorylated

Table SIII. Genotype of pups by crossing *Kcnh2* heterozygote rats.

[illegible]