

Supplemental material and methods

Genotyping Primers

Catulin-Ex1-F: 5' CGGTGCGGGAGCTGTCCACTCC
Catulin-Ex2-R: 5' CTTGGCTTCGATGCAGGCGAT
BGBR-3: 5' GACAGTATCGGCCTCAGGAAGATCG

sqRT-PCR Primers

mCatulin-RT-F: 5' TCGCCTGCATCGAAGCCAAGCAA
mCatulin-RT-R: 5' ACAGCTGGGATGCCTGAGACATGT
mGAPDH-F: 5' GCAAAGTGGAGATTGTTGCC
mGAPDH-R: 5' CCTGCTTCACCACCTTCTTG

Canine specific RT-qPCR primers

canine-catulin Fw4 5' TGA CTG ACT GCA AAC CAA GTG product size 246bp
canine-catulin Rev4 5' GCA ATT CCA GTC TCG TCT GAG

canine-GAPDH Fw 5' CAG TTG TGG ATC TGA CCT GC product size 282bp
canine-GAPDH Rev 5' CCT TGG AGG CCA TGT AGA CC

Antibodies for Indirect Immunofluorescence and Immunohistochemistry

Antibody	Dilution	Company
β -Catenin	1:300	Sigma-Aldrich #C2206
ECED2 (E-cadherin)	1:100	Zymed Laboratories #13-1900
α E-Catenin	1:500	Sigma-Aldrich #C8114
Podocalyxin/gp135	3 μ g/ml	DSHB, #3F2/D8 cell line
Fibronectin	1:200	AbCam #ab6328
Keratin 8	1:100	DSHB #TROMA-I
Laminin Ab-1	1:50	Thermo Scientific #RB-082
p-Myosin Light Chain 2 (pMlc2)	1:50	Cell Signaling Technology #3671
Nestin	1:100	DSHB #Rat-401
Neurofilament (NF)	1:300	DSHB #2H3
p75NTR	1:100	Upstate Cell Signaling #07-476
Phalloidin-TRITC	1:200	Fluka #77418
Sox2	1:500	Millipore #AB5603