

Table S1: Primer sequences, target and application in expression cloning or semiquantitative sequencing. PCRs were conducted with GoTaq® DNA Polymerase (Promega Corporation, Madison, WI, USA).

Primer Names	Primer Sequences	Target	Application
hGusB-RT-F	GGTTGGAGAGCTCATTGGA	GUSB	RT-PCR - housekeeper
hGusB-RT-R	CACGCAGGTGGTATCAGTCTT		
hSOX2-RT-F	ACACCAATCCCATCCCACT	SOX2	RT-PCR - stem cell marker
hSOX2-RT-F	GCAAACCTTCTGCAAAGCTC		
hOCT4-RT-F	CGAGCAATTTGCCAAGCTCCTGAA	OCT4	RT-PCR - stem cell marker
hOCT4-RT-F	TCGGGCACTGCAGGAACAAATTC		
hRPE65-RT-F	CAATGGGTTTCTGATTGTGGA	RPE65	RT-PCR – RPE marker
hRPE65-RT-R	GGGTGAGAAACAAAGATGGG		
hITGB8-RT-F	ATCCTGTGCCAGGTGCCTT	ITGB8	RT-PCR – RPE marker
hITGB8-RT-R	TGGACGCAGCTGGATAGACAC		
hBEST1-RT-F	CCTGCTGAACGAGATGAACA	BEST1	RT-PCR – RPE marker
hBEST1-RT-R	GGACACCTGCAAATTCCTGT		
hRLBP1-RT-F	ACAAGTATGGCCGAGTGGTC	RLBP1	RT-PCR – RPE marker
hRLBP1-RT-R	CCACATTGTAGGTCGTGGTG		
VTN_ Ex3F	AAGAACGGTTCCTCTTTGC	VTN – cDNA	RT-PCR – VTN
hVTN_ Ex7-R	GACACTCTGGATGGGTTACAG		
hVTN_ Ex7-F	GGCCGCATCTACATCTCAGG	VTN – genomic DNA	PCR with genomic DNA – VTN
hVTN_ Ex7-R	GACACTCTGGATGGGTTACAG		
hVTN_ Ex7-R	GACACTCTGGATGGGTTACAG	VTN	sequencing
GFP-BamHI-F	GGATCCATGGTGAGCAAGGGCGAGGA	GFP	Cloning of pcDNA3.1_GFP
GFP-NotI-R	TGGACGAGCTGTACAAGTAAAGCGGC CGC		
VTN-BamHI-F	GGATCCATGGCACCCCTGAGACCCCT TCTC	VTN	Cloning of pEXPR-IBA103_VTN
VTN-XhoIwostop-R	CTCGAGCAGATGGCCAGGAGCTGGG CA		
VTN-BamHI-F	GGATCCATGGCACCCCTGAGACCCCT TCTC	VTN	Cloning of pcDNA3.1_VTN
VTN-XhoI-R	CTCGAGCTACAGATGGCCAGGAGCTG GGCA		

Table S2: Antibodies, dilution, application and origin.

Antibodies	Dilution	Application	Manufacturer (Country)
α -ACTB (A5441)	1:10000	WB	Sigma-Aldrich, St. Louis, MO, USA
α -ATP1A1 (55187-1-AP)	1:100	ICC	Proteintech Group, Rosemont, IL, USA
α -ATP1B1 (15192-1-AP)	1:100	ICC	Proteintech Group, Rosemont, IL, USA
α -BEST1 (ab2182)	1:500	ICC	Abcam, Cambridge, United Kingdom
α -COL VI (SD83-03)	1:1000 1:100	WB IF	ThermoFisher Scientific, Waltham, MA, USA
α -ELA (324756)	1:200 1:100	WB IF	(Calbiochem) Merck Chemicals GmbH, Darmstadt, Germany
α -FN (F7387)	1:800 1:100	WB IF	Sigma-Aldrich, St. Louis, MO, USA
α -GFP (sc-8334)	1:10000	WB	Santa Cruz Biotechnology, Dallas, TX, USA
α -LAM (ab11575)	1:1000 1:100	WB IF	BIOZOL Diagnostica Vertrieb GmbH, Eching, Germany
α -VTN (MAB2349)	1:5000 1:250	WB IF	R&D Systems, Inc., Minneapolis, MN, USA
α -ZO1 (61-7300)	1:500	ICC	Invitrogen by Life Technologies, Darmstadt, Germany
Goat Anti-Mouse IgG, Peroxidase conjugated	1:10000	WB	(Calbiochem) Merck Chemicals GmbH, Darmstadt, Germany
Goat Anti-Rabbit IgG, Peroxidase conjugated	1:10000	WB	(Calbiochem) Merck Chemicals GmbH, Darmstadt, Germany
Goat Anti-Mouse IgG, Alexa Fluor ® 594 conjugated	1:800	IF/ICC	ThermoFisher Scientific, Waltham, MA, USA
Goat Anti-Rabbit IgG, Alexa Fluor ® 488 conjugated	1:800	IF/ICC	ThermoFisher Scientific, Waltham, MA, USA

WB = Western Blot, IF = Immunofluorescence, ICC = Immunocytochemistry