

Common Name	Gene ID	Forward Sequence
Antithrombin	SERPINC1	CTTGAGGTAAATGAAGAAGGC
N-cadherin	CDH2	CTGGAACATATGTGATGACC
Fibrinogen gamma chain	FGG	CTGGGACAATGACAATGATAAG
Vasodilator-stimulated phosphoprotein	VASP	GGAATTGCAGAAAGTGAAAG
Transforming growth factor β1	TGFB1	AACCCACAACGAAATCTATG
Zyxin	ZYX	ACTACCACAAGCAGTACG
SUN1	SUN1	GTGTTTCTTCTTACCAGGTG
SUN2	SUN2	AGCCTTCAGATTCTCTTCAG
Hepcidin	HAMP	GTTTTCCACAACAGACG
Sulfotransferase 1A1	SULT1A1	CTTCTATGAAGACATGAAGGAG
Glutathione S-transferase A1	GSTA1	AGGTATAGCAGATTTGGGTG
Albumin	ALB	AGCCTACCATGAGAATAAGAG
Hypoxanthine-guanine phosphoribosyltransferase	HPRT1	ATAAGCCAGACTTTGTTGG
DNA topoisomerase 1	TOP1	CAAAGACGAAGAAGGTAGTAG
Ubiquitin C	UBC	CGTCACTTGACAATGCAG

Supplementary Table S1: Predesigned KiCqStart® SYBR® Green Primers used in RTqPCR.

Target	Supplier	Product Code	Application	Dilution	Rationale
SUN-1	Abcam	ab124770	Immunofluorescence	1:200	Structural component of the complex that links the nucleus to the cytoskeleton and is implicated in mechanotransduction
SUN-2	Abcam	ab124916	Immunofluorescence	1:200	Structural component of the complex that links the nucleus to the cytoskeleton and is implicated in mechanotransduction
Albumin	Santa Cruz Biotechnologies	sc-271605	Western Blotting	1:500	Synthesized by the liver and is a commonly used biomarker to assess hepatic function
α -Fibrinogen	Santa Cruz Biotechnologies	sc-398806	Western Blotting	1:500	Glycoprotein that constitutes the major component of a blood clot and is synthesized by the liver, therefore can infer information regarding liver functionality
β -actin	Abcam	ab8224	Western Blotting	1:1,000	Widely accepted loading control commonly used in Western Blot validation

Supplementary Table S2: Primary Antibodies

Primary antibodies and their suppliers, used in both immunofluorescence and western blotting. In both cases primary antibodies were incubated overnight at 4 °C prior to wash steps and addition of secondary antibodies. Rationale supporting their choice and relevance to the study is also detailed above.