Fig. S1. Microfibrils are not deposited by HDF cultures when FN is depleted. (A) Immunofluorescence microscopy of HDF cultures (8 days), showing deposition of fibrillin-1 (Fibr-1; B/W, red) and FN (B/W, green), with nuclei stained with DAPI (blue). Images were taken using a 20× objective. Specific band-pass filter sets for DAPI, FITC, and Cy3 or Cy5 were used to prevent bleed-through. Control cultures (Con) showed partial colocalisation of fibrillin-1 and FN (yellow). FN knockdown (kd) HDF cultures had no detectable microfibrils. EXT1 knockdown (kd) HDFs had disordered microfibrils but no apparent FN changes. Scale bars = 100 μm. n = 2 (B) Fibrillin-1 deposition was quantified using ImageJ. The percentage area was calculated by applying an equal threshold value over all the images and measuring the area of the brightest pixels corresponding to fibrillin fibrils. For each cell type, at least 3 images were used and the graph shows the mean percentage area and SEM. Statistical significance for deviation from the control cell-line values was calculated using a 2-way ANOVA with a Bonferroni's multiple comparisons test using GraphPad Prism V6. Asterisk indicate P values where *** = P ≤ 0.001. (C) Medium and cell layer extracts from HDF cells in control (Con) and knockdown (kd) experiments (perlecan, EXT1, PKCα, FN, syndecan-2 or syndecan-4) were separated on 3-8% Tris-acetate gels in reducing conditions, and analyzed by western blotting for fibrillin-1 (antibody HPA021057) or FN (antibody FN-3E2), or β-actin (mAbAC-74) as loading control for cell layer extracts. Molecular weight markers are indicated. Quantification of band intensity is shown as a percentage of control band intensity (where Con = 100%). Data shown are from a single representative experiment, with biological and technical repeats exhibiting the same trends (n = 3).

Fig. S2. Relative expression levels in ARPE-19A and B cells, podocytes, and human dermal fibroblasts (HDFs). (A) Realtime quantitative PCR (qPCR) analysis of gene expression of fibrillin-1 (Fibr-1), fibronectin (FN), EXT1, perlecan (Perl), PKC α and syndecans (Syn) 1-4 in (i) ARPE-19A, (ii) ARPE-19B, (iii) podocyte (all 7 days) and (iv) HDF cultures (4 days). (B) Real-time qPCR analysis of gene expression of E-cadherin (E-cad), N-cadherin (N-cad), PDGF receptor- β (PDGFR β), smooth muscle α -actin (SMA), SNAI1, SNAI2 and TWIST 1 in (i) ARPE-19A, (ii) ARPE-19B, and (iii) podocyte cultures (all 7 days). For both (A) and (B), expression is reported relative to TATA box binding protein (TBP), where TBP expression is equal to 1. Data are represented as the mean \pm s.e.m. See Table S1 for details of n values for ARPE-19A and B cultures; for podocytes, n = 3; for HDF in (A) (iii), n = 6-12, depending on gene.

Fig. S3. Real-time quantitative PCR analysis of expression levels following knockdown of EXT1, perlecan, or fibronectin, and syndecan-2, syndecan-4 or PKCa. (A-D) qPCR analysis of expression levels of fibrillin-1 (Fibr-1), fibronectin (FN), EXT1, Perlecan (Perl), PKCα (PKCα) and syndecans (Syn) 1-4, following knockdown of EXT1, perlecan, or FN in (A) ARPE-19A, (B) ARPE-19B cells (both 7 days) and (C) HDF cultures (4 days). (D) qPCR analysis of expression levels of fibrillin-1 (Fibr-1), fibronectin (FN), syndecans (Syn) 1-4, E-cadherin (E-cad), N-cadherin (N-cad), PDGF receptor- β (PDGFR β), smooth muscle α -actin (SMA), SNAI1, SNAI2 and TWIST 1 following knockdown of FN in podocyte cultures (7 days). Samples were either normalised to a combination of GAPDH/TBP expression (A, B and D), or to TBP expression (C) prior to being reported as fold changes relative to lipofectamine-treated control cell expression of either ARPE-19A, ARPE-19B, HDF or podocyte accordingly (where Con = 1). All data are represented as the mean \pm s.e.m. and analyzed by 2-way ANOVA, with *P < 0.05; **P < 0.01; ***P < 0.001. See Table S1 for details of n values for ARPE-19A and B cultures; for HDF, n = 3-16, depending on gene and knockdown condition. (E-H) qPCR analysis of expression levels of fibrillin-1 (Fibr-1), fibronectin (FN), EXT1, Perlecan (Perl), PKC α (PKC α) and syndecans (Syn) 1-4, following knockdown of syndecan-2, syndecan-4 or PKCa in (E) ARPE-19A, (F) ARPE-19B cells (both 7 days) and (G) HDF cultures (4 days). Samples were either normalised to a combination of GAPDH/TBP expression (E and F), or to TBP expression (G) prior to being reported as fold changes relative to lipofectamine-treated control cell expression of either ARPE-19A, ARPE-19B, or HDF accordingly (where Con = 1). All data are represented as mean \pm s.e.m. and analyzed by 2-way ANOVA, with *P<0.05; **P<0.01; ***P<0.001. See Table S1 for details of n values for ARPE-19A and B cultures; for HDF, n = 3-16, depending on gene and knockdown condition. (H) Cell lysate samples of ARPE-19A and B cells (control and PKCα knockdown) were separated on 4-12% Bis-Tris gels in reducing conditions, and analyzed by western blotting for PKC α or β -actin (mAbAC-74) as loading control for cell layer extracts. Molecular weight markers are indicated. Verification of PKC α kd was achieved via quantification of band intensity ("Expression"), shown as a percentage of control band intensity (where Con = 100%).

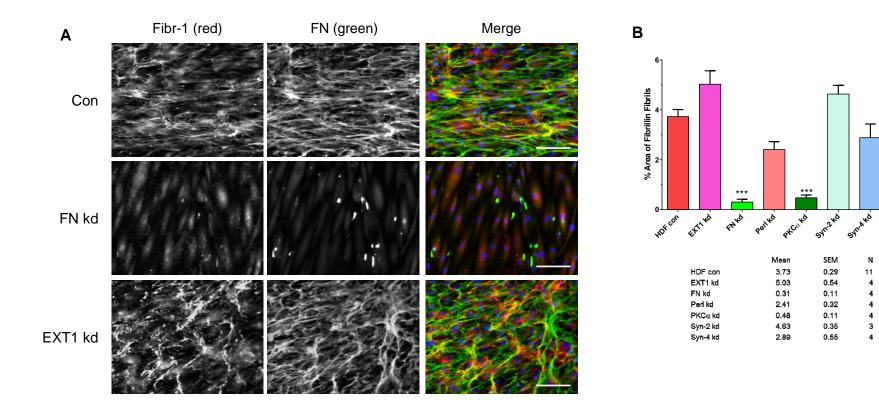
Fig. S4. Effects of adding cellular fibronectin on microfibril and FN deposition by ARPE-19B cultures. Immunofluorescence microscopy of ARPE-19B cells (control and FN kd, 12 days), showing deposition of fibrillin-1 (Fibr-1; B/W, red) and FN (B/W, green), with nuclei stained with DAPI (blue), in the presence or absence of cellular FN (cFN; 10 μ g/ml). Addition of cFN to FN kd ARPE-19B cells failed to rescue deposition of fibrillin-1. Images were taken using a 20× objective. Specific band-pass filter sets for DAPI, FITC and Cy3 or Cy5 were used to prevent bleed-through. Scale bars = 100 μ m.

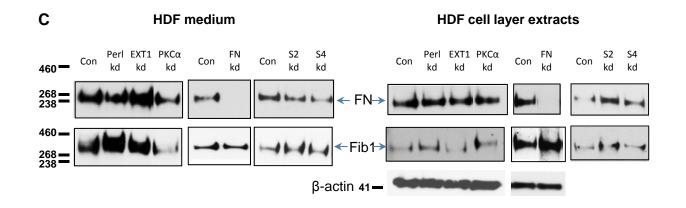
Fig. S5. Effects on microfibrils of knocking down perlecan, or syndecans-2 or -4, or PKCa, in ARPE-19A, ARPE-19B and HDF cultures. Immunofluorescence microscopy of (A) ARPE-19A cells and (B) ARPE-19B cells (both 7 days), showing deposition of perlecan (B/W, red) and FN (B/W, green), with nuclei stained with DAPI (blue). Images were using a 20× objective. Boxed areas are shown as zoomed images on right. Control cultures (Con) showed partial colocalisation of fibronectin and perlecan (yellow). FN knockdown (kd) ARPE-19A cultures exhibited prominent perlecan staining, but FN knockdown ARPE-19B cultures had no detectable perlecan. Perlecan knockdown in both ARPE-19A and B cultures had no effect on FN deposition, and loss of perlecan was shown. Scale bars for first three lanes = 100 μ m; scale bar for perlecan zoom = 25 μ m; for A and B n = 3. (C) Immunofluorescence microscopy of HDF cultures (8 days), showing deposition of fibrillin-1 (Fibr-1; B/W, red) and perlecan (B/W, green), with nuclei stained with DAPI (blue). Boxed areas are shown as zoomed images on right. Control cultures (Con) showed partial colocalisation of fibrillin-1 and perlecan (yellow). FN knockdown (kd) HDFs had no detectable perlecan or microfibrils. Perlecan knockdown HDFs had some microfibrils. (D) Immunofluorescence microscopy of HDF cultures (8 days), showing deposition of HDF cultures (8 days), showing deposition of Sibrillin-1 (Fibr-1; B/W, red) and FN (B/W, green), with nuclei stained with DAPI (blue). Boxed areas are shown as zoomed images on right. PKC α , syndecan-2 and syndecan-4 knockdown (kd) HDFs had few microfibrils but abundant FN. For both (A) and (B), images were taken using a 20× objective. Scale bars = 100 μ m, n = 3. For all microscopy, specific band-pass filter sets for DAPI, FITC, and Cy3 or Cy5 were used to prevent bleed-through.

Fig. S6. Real-time quantitative PCR analysis of syndecan and E-cadherin expression levels following siRNA treatments. qPCR analysis of expression levels of (A) syndecans 1-4 and (B) E-cadherin, following knockdown of EXT1, FN, perlecan, PKC α , syndecan-2 or syndecan-4 in ARPE-19A cells (black bars) and ARPE-19B cells (white bars; both 7 days). Samples were normalised to a combination of GAPDH/TBP expression prior to being reported as fold changes relative to ARPE-19A lipofectamine-treated control cell expression (where ARPE-19A Con = 1). E-cadherin expression is lower in control ARPE-19B cultures compared to control ARPE-19A cultures (see also Fig. 2). In both ARPE-19A and B cells, knockdown of EXT1 results in an increase in E-cadherin expression. None of the other gene knockdowns tested changed E-cadherin expression in ARPE-19B cells, whereas knockdown of perlecan and PKC α had consequences for E-cadherin expression in ARPE-19A cells. (C) Real-time quantitative PCR (qPCR) analysis of gene expression of syndecans 1-4 in control (Con) and FN kd ARPE-19A and B cells. For (A), (B) and (C), the "Gene Study" functionality of CFX Manager was utilised. In order to use the "Gene Study" software throughout the experiment, datasets were generated for ARPE-19A and B cells (for (A) and (C), n = 3-5, and for (B) n = 3-9, depending on the knockdown condition). All data are represented as the mean \pm s.e.m. and analyzed by 2-way ANOVA, with **P*<0.05; ***P*<0.01; ****P*<0.001.

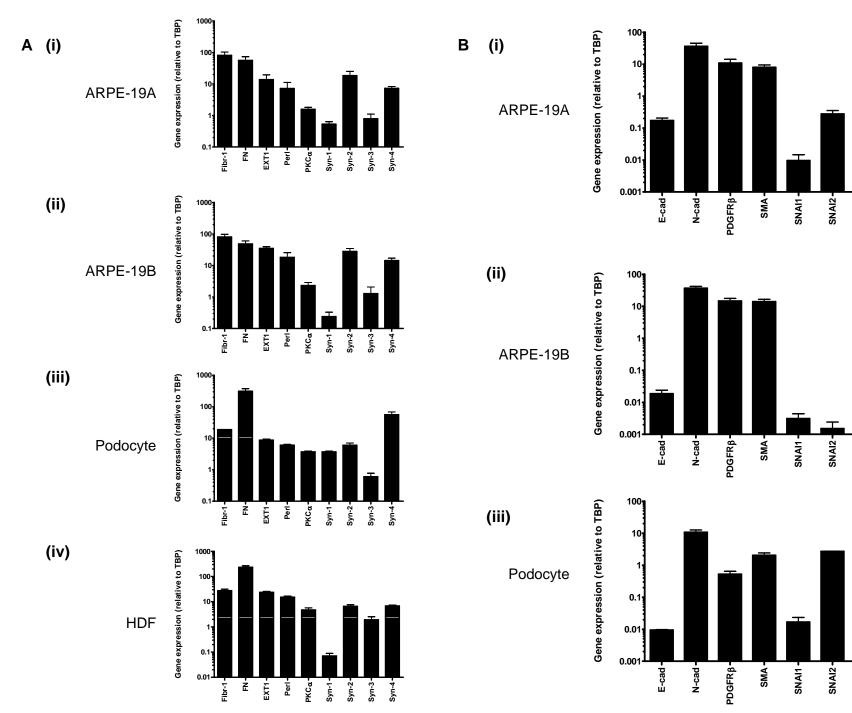
Fig. S7. Effects of actomyosin inhibitors and EXT1 knockdown on microfibril and FN deposition by ARPE-19A and B cultures. (A) Immunofluorescence microscopy of ARPE-19A and ARPE-19B cells (both cultured for 7 days), showing deposition of fibrillin-1 (Fibr-1; B/W, red) and FN (B/W, green), with nuclei stained with DAPI (blue). Images were taken using a 20× objective. ARPE-19A and B cells were incubated for 7 days in the presence of the myosin II inhibitor blebbistatin (10 μ M), or the Rho kinase inhibitor Y27632 (10 μ M), or the RhoA activator lysophosphatidic acid (LPA) (20 μ M), with DMSO control cultures (DMSO). Microfibrils and FN were greatly reduced in both ARPE-19A and B cells by blebbistatin or Y27632, with only faint fine microfibril arrays observed. Scale bars for first three lanes = 100 μ m; scale bar for Fibr-1 zoom = 25 μ m. (B) Immunofluorescence microscopy of (i) ARPE-19A and (ii) ARPE-19B cells (both cultured for 7 days), showing deposition of fibrillin-1 (Fibr-1; B/W, red) and FN (B/W, green) after EXT1 knockdown (kd), with nuclei stained with DAPI (blue). Images were taken using a 20× objective. Control cultures (Con) showed partial colocalisation of fibrillin-1 and FN (yellow). EXT1 kd in both ARPE-19A and B cultures ablated microfibrils, with only cellular fibrillin-1 staining detected, and dense punctuate pericellular FN. Scale bars = 100 μ m. For A, n = 2, and B, n = 4. For all microscopy, specific band-pass filter sets for DAPI, FITC, and Cy 3 or Cy5 were used to prevent bleed-through. Boxed areas are shown as zoomed images on right.

Fig. S1





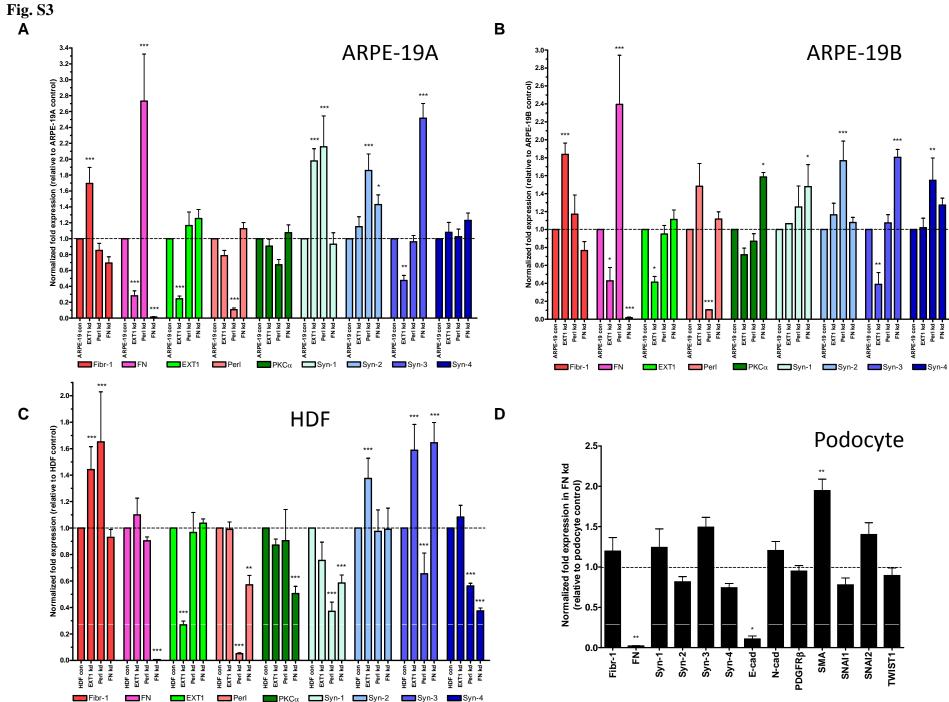




TWIST 1-

TWIST 1-

TWIST 1-



Per Per

PKCα

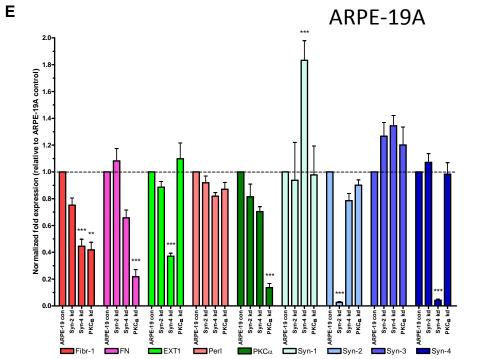
Syn-1

Syn-3

Syn-4

Fig. S3

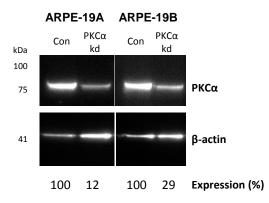
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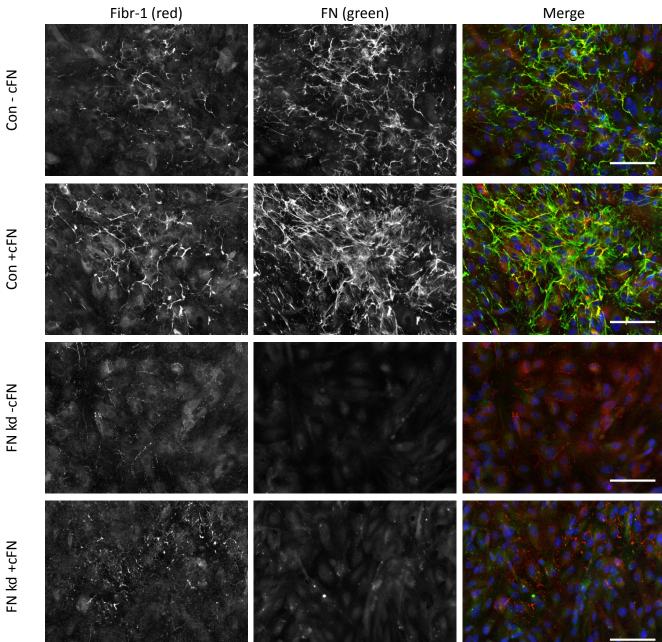


2.0-*** HDF *** 0.2-0.0 HDF con -Syn-2 kd -Syn-4 kd -PKC <u>a</u> kd -HDF con Syn-2 kd -Syn-4 kd -PKC a kd -HDF con-Syn-2 kd Syn-4 kd PKCoc kd HDF con-Syn-2 kd Syn-4 kd PKCo, kd HDF con-Syn-2 kd -Syn-4 kd -PKC _o kd -HDF con -Syn-2 kd -HDF con-Syn-2 kd-PKC a kd HDF con -Syn-2 kd -Syn-4 kd -HDF con 호 호 ş PKC a kd EXT1 Perl Syn-2 Fibr-1 ΡΚCα Svn-3

F ARPE-19B *** 3.4 3.2 Normalized fold expression (relative to ARPE-198 control) *** I 0.4 0.2-0.0-ARPE-19 con Syn-2 kd Syn-4 kd PKCoc kd RPE-19 con -Syn-2 kd -Syn-4 kd -PKC a kd -ARPE-19 con -Syn-2 kd -Syn-4 kd -PKC a kd -ARPE-19 con-Syn-2 kd-Syn-4 kd-PKCα kd-PE-19 con-Syn-2 kd-Syn-4 kd-PKCα kd-PE-19 con-Syn-2 kd-Syn-4 kd-PKC oc kd-PE-19 con Syn-2 kd Syn-4 kd PKCoc kd PE-19 con Syn-2 kd Syn-4 kd PKC oc kd PE-19 con Syn-2 kd Syn-4 kd PKCα kd Fibr-1 FN PKCα Syn-1 Syn-2 Syn-3 Syn-4 EXT1 Perl

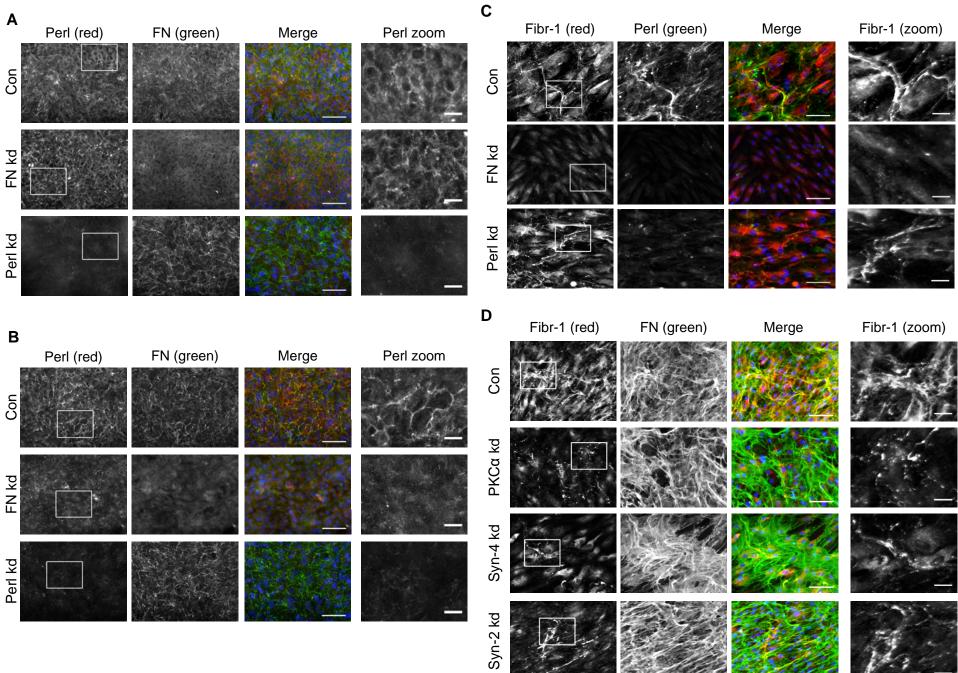
Н





Con +cFN

Fig. S5



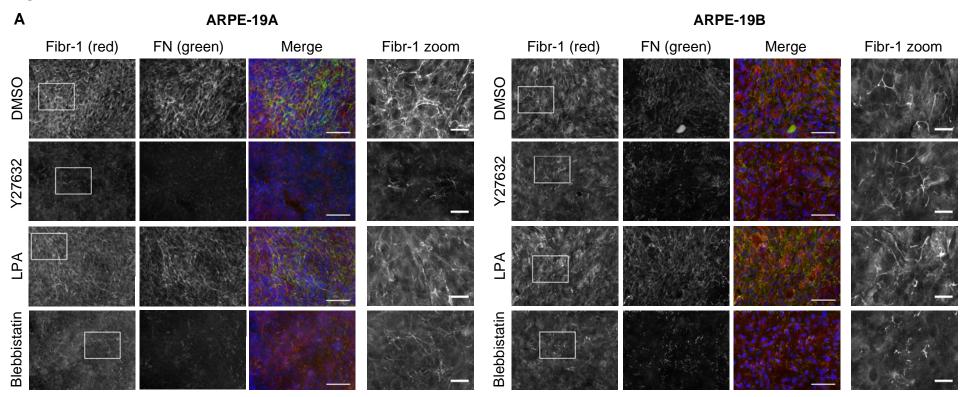


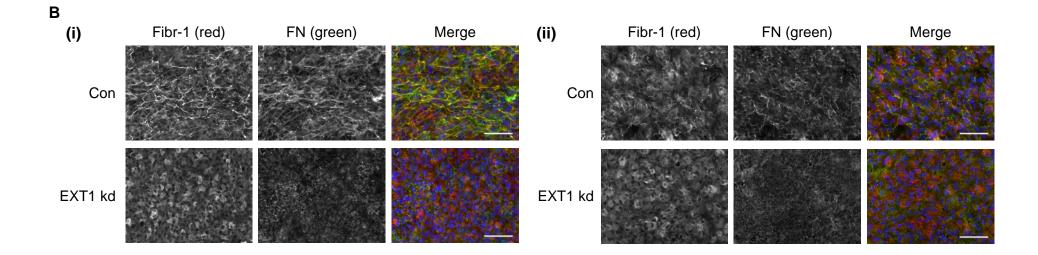
Α *** Normalized fold expression of E-cadherin (relative to ARPE-19A control) ARPE-19A 7-6-ARPE-19B ARPE-19A 5-*** 3.6₇ ARPE-19B 4. 3.4 Normalized fold expression (relative to ARPE-19A control) 3. 3.2-*** 3.0-2.8-*** 2.6-Con-EXT1 kd-FN kd-FN kd-Perlecan kd-PKCα kd-Syn-2 kd-Syn-4 kd-Con EXT1 kd FN kd FN kd Perlecan kd PPKCα kd Syn-2 kd Syn-4 kd *** *** 2.4-** 2.2-** 2.0-1.8-С 1.6-1.4 1.2 2.50 Syn-1 1.0 2.25 Syn-2 0.8-Syn-3 0.6 Syn-4 0.4 0.2 0.0-Perfection Price Con-Price Syn-4-Syn-4-E FT1-FT1-FT1-FT1-FT1-Syn-2 Syn-2 EXT1 EXT1 FN FN FN FN Syn-2 Syn-2 Syn-4 Con EXT1 FX1 FX1 FN FXCα Syn-2 Syn-4 Con EXT1 FX1 FX1 FX1 FX1 Syn-2 Syn-2 Syn-4 0.50 0.25 Syndecan-1 Syndecan-2 Syndecan-3 Syndecan-4 0.00-A-Con-A-FN kd-B-Con-B-FN kd-A-FN kd-B-Con-B-FN kd-A-FN kd-B-Con-B-FN kd-A-Con-A-Con-A-Con-

В

A-FN kd-B-Con-B-FN kd-

Fig. S7





	Forward Primer (5' – 3')	Reverse Primer (5' – 3')
EXT1	GCTCTTGTCTCGCCCTTTTGT	TGGTGCAAGCCATTCCTACC
FN	CTGCGAGAGCAAACCTGAAG	TTTAGGACGCTCATAAGTGTCAC
ТВР	TCGTGCCCGAAACGCCGAAT	CAGTGCCGTGGTTCGTGGCT
GAPDH	AAGGGCATCCTGGGCTAC	GTGGAGGAGTGGGTGTCG
РКСа	TGACGTGGAGTGCACCAT	GAGTGCAGCTGCGTCAAG
Fibrillin-1	GGGCATTTGCCAGAACAC	CGCTGAGGCATTCGTTTT
Syndecan-1	CCAGCCAAGCTGACCTTC	GAGGCTCCATCCTCAGCA
Syndecan-2	CCTGCTGTTGGTGTATCG	GCAGCACTGGATGGTTTG
Syndecan-3	GGAGCCTGACATCCCTGA	GGGGTCTGAGCCACCTCT
Syndecan-4	ACTGTGCAGGGCAGCAAC	AAGAGGATGCCCACGATG
Perlecan	TGCGCTGGACACATTCGTACCT	CCACTGCCCAGGTCGTCTCCT
E-cadherin	CATGAGCCACTGCACCTG	GCGATGGAGCGAAACTGT
N-cadherin	AATGACCCCACAGCTCCA	GAGCTCAAGGACCCAGCA
SMA	CATCACCAACTGGGACGA	GGTGGGATGCTCTTCAGG
PDGFRβ	CTCGGGGACCTACACCTG	ACGTAGCCGCTCTCAACC
SNAIL 1	TCCCATGGCCATTTCTGT	GACAGGCCAGCTCAGGAA
SNAIL 2	ACCCAATGGCCTCTCTCC	AGCCACTGTGGTCCTTGG
TWIST 1	ACCCAGTCGCTGAACGAG	GCCAGCTTGAGGGTCTGA

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Table S2. Total number of replicates for ARPE-19A and B qPCR studies. Table displaying the number of replicate experiments (n) performed in triplicate with ARPE-19A and B cells (7 days) to compile real-time quantitative PCR data. Values consist of a combination of technical and biological repeats. NA - not included in this study.

_	ARPE-19A							ARPE-19B						
_	Con	EXT1 kd	Perl kd	FN kd	Syn-2 kd	Syn-4 kd F	PKCα kd	Con	EXT1 kd	Perl kd	FN kd	Syn-2 kd	Syn-4 kd	PKCα kd
Gene														
Fibr-1	10	5	4	5	7	7	4	11	3	3	10	3	3	3
FN	10	5	4	5	7	7	4	11	3	3	10	3	3	3
EXT1	6	6	4	6	5	6	3	4	3	3	3	3	3	3
Perlecan	5	4	5	4	4	4	4	4	3	3	3	3	3	3
ΡΚCα	5	4	5	4	5	4	5	3	3	3	3	3	3	3
Syn-1	6	4	4	6	4	3	3	4	3	3	4	3	3	3
Syn-2	8	5	5	6	7	8	6	5	4	4	4	4	4	4
Syn-3	6	4	4	6	4	4	4	4	3	3	4	3	3	3
Syn-4	9	5	4	7	9	9	3	5	4	4	4	4	4	4
E-cad	12	3	3	9	3	3	3	11	3	3	8	3	3	3
N-cad	10	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA
PDGFRβ	9	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
SMA	10	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA
SNAI1	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
SNAI2	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
TWIST 1	7	NA	NA	NA	NA	NA	NA	7	NA	NA	NA	NA	NA	NA
		ARPE-19A						ARPE-19B						
-					•••					_		130		
	Con	EXT1 kd	Perl kd	FN kd	-	d Syn-4 kd	PKCα k	d Con	EXT1 k		FN kd	-	kd Syn-4	kd PKCα
Gene	Con	EXT1 kd	Perl kd		-	d Syn-4 kd	PKCα k	d Con	EXT1 k			-	kd Syn-4	kd PKCα
Gene Fibr-1	Con 10	EXT1 kd	Perl kd 4		-	d Syn-4 kd 7	PKCα k	d Con 11	EXT1 k			-	kd Syn-4 3	kd PKCα 3
				FN kd	Syn-2 k					d Perl kd	FN kd	Syn-2		
Fibr-1	10	5	4	FN kd 5	Syn-2 ko	7	4	11	3	d Perl kd 3	FN kd	I Syn-2	3	3
Fibr-1 FN	10 10	5 5	4 4	FN kd 5 5	Syn-2 ko 7 7	7 7	4 4	11 11	3 3	d Perl kd 3 3	FN kd 10 10	I Syn-2 3 3	3	3 3
Fibr-1 FN EXT1	10 10 6	5 5 6	4 4 4	FN kd 5 5 6	Syn-2 ko 7 7 5	7 7 6	4 4 3	11 11 4	3 3 3	d Perl kd 3 3 3	FN kd 10 10 3	Syn-2 3 3 3	3 3 3	3 3 3
Fibr-1 FN EXT1 Perlecan	10 10 6 5	5 5 6 4	4 4 5	FN kd 5 5 6 4	Syn-2 ko 7 7 5 4	7 7 6 4	4 4 3 4	11 11 4 4	3 3 3 3	d Perl kd 3 3 3 3	FN kd 10 10 3 3	Syn-2 3 3 3 3	3 3 3 3	3 3 3 3
Fibr-1 FN EXT1 Perlecan PKCα	10 10 6 5 5	5 5 4 4	4 4 5 5	FN kd 5 5 6 4 4	Syn-2 ko 7 7 5 4 5	7 7 6 4 4	4 4 3 4 5	11 11 4 4 3	3 3 3 3 3	d Perl kd 3 3 3 3 3 3	FN kd 10 10 3 3 3	Syn-2 3 3 3 3 3 3	3 3 3 3 3	3 3 3 3 3
Fibr-1 FN EXT1 Perlecan PKCα Syn-1	10 10 6 5 5 6	5 5 4 4 4	4 4 5 5 4	FN kd 5 5 6 4 4 6	Syn-2 kr 7 5 4 5 4	7 7 6 4 4 3	4 4 3 4 5 3	11 11 4 4 3 4	3 3 3 3 3 3	d Perl kd 3 3 3 3 3 3 3 3	FN kd 10 3 3 3 4	Syn-2 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3	3 3 3 3 3 3 3
Fibr-1 FN EXT1 Perlecan PKCa Syn-1 Syn-2 Syn-3	10 10 6 5 5 6 8	5 5 4 4 4 5	4 4 5 5 4 5	FN kd 5 5 6 4 4 6 6	Syn-2 ko 7 7 5 4 5 4 5 4 7	7 7 6 4 4 3 8	4 4 3 4 5 3 6	11 11 4 3 4 5	3 3 3 3 3 4	d Perl kd 3 3 3 3 3 3 3 4	FN kd 10 3 3 4 4	3 3 3 3 3 3 3 3 4	3 3 3 3 3 3 4	3 3 3 3 3 3 4
Fibr-1 FN EXT1 Perlecan PKCα Syn-1 Syn-2	10 10 6 5 5 6 8 6	5 5 4 4 5 4	4 4 5 5 4 5 4	FN kd 5 5 6 4 4 6 6 6	Syn-2 kr 7 5 4 5 4 7 4 7 4	7 7 6 4 4 3 8 4	4 4 3 4 5 3 6 4	11 11 4 3 4 5 4	3 3 3 3 3 4 3	d Perl kd 3 3 3 3 3 3 3 4 3	FN kd 10 3 3 4 4 4	Syn-2 3 3 3 3 3 3 3 4 3	3 3 3 3 3 3 4 3	3 3 3 3 3 3 4 3
Fibr-1 FN EXT1 Perlecan PKCa Syn-1 Syn-2 Syn-3 Syn-4 E-cad	10 10 5 5 6 8 6 9 12	5 5 4 4 5 4 5	4 4 5 5 4 5 4 4	FN kd 5 5 6 4 4 6 6 6 7	Syn-2 kr 7 5 4 5 4 7 4 9	7 7 6 4 3 8 4 9	4 3 4 5 3 6 4 3	11 11 4 3 4 5 4 5 11	3 3 3 3 3 4 3 4 3	d Perl kd 3 3 3 3 3 3 4 3 4 3 4	FN kd 10 3 3 4 4 4 4 4	3 3 3 3 3 3 3 3 4 3 4 3 4	3 3 3 3 3 3 4 3 4 3 4	3 3 3 3 3 4 3 4 3 4 3
Fibr-1 FN EXT1 Perlecan PKCa Syn-1 Syn-2 Syn-3 Syn-4 E-cad N-cad	10 10 6 5 5 6 8 6 9 12 10	5 6 4 4 5 4 5 3	4 4 5 5 4 5 4 3	FN kd 5 5 6 4 4 6 6 6 7 9	Syn-2 kr 7 5 4 5 4 7 4 9 3	7 7 6 4 3 8 4 9 3	4 3 4 5 3 6 4 3 3	11 11 4 3 4 5 4 5 11 10	3 3 3 3 3 4 3 4 3	d Perl kd 3 3 3 3 3 3 4 3 4 3 4 3	FN kd 10 3 3 4 4 4 4 4 8	3 3 3 3 3 3 3 4 3 4 3 4 3	3 3 3 3 3 3 4 3 4 3 NA	3 3 3 3 3 3 4 3 4 3 NA
Fibr-1 FN EXT1 Perlecan PKCα Syn-1 Syn-2 Syn-3 Syn-4 E-cad N-cad PDGFRβ	10 6 5 6 8 6 9 12 10 9	5 6 4 4 5 4 5 3 NA NA	4 4 5 4 5 4 3 NA NA	FN kd 5 6 4 4 6 6 6 7 9 NA NA	Syn-2 kr 7 5 4 5 4 7 4 9 3 NA NA	7 7 6 4 3 8 4 9 3 NA NA	4 3 4 5 3 6 4 3 8 NA NA	11 11 4 3 4 5 4 5 11 10 8	3 3 3 3 4 3 4 3 NA NA	d Perl kd 3 3 3 3 3 4 3 4 3 4 3 NA NA	FN kd 10 10 3 3 4 4 4 4 8 NA NA	3 3 3 3 3 3 3 3 3 3 4 3 4 3 4 3 NA NA	3 3 3 3 3 3 3 3 4 3 4 3 4 3 NA	3 3 3 3 3 3 3 4 3 4 3 8 8 8 8 8 8 8 8 8
Fibr-1 FN EXT1 Perlecan PKCα Syn-1 Syn-2 Syn-3 Syn-4 E-cad N-cad PDGFRβ SMA	10 6 5 6 8 6 9 12 10 9 10	5 6 4 5 4 5 3 NA NA NA	4 4 5 5 4 5 4 3 NA NA	FN kd 5 6 4 6 6 6 7 9 NA NA NA	Syn-2 kr 7 5 4 5 4 7 4 9 3 NA NA NA	7 7 6 4 3 8 4 9 3 NA NA NA	4 3 4 5 3 6 4 3 NA NA	11 11 4 3 4 5 4 5 11 10 8 10	3 3 3 3 3 4 3 4 3 NA NA	d Perl kd 3 3 3 3 3 4 3 4 3 4 3 NA NA NA	FN kd 10 10 3 3 4 4 4 4 8 NA NA NA	3 3 3 3 3 3 3 3 3 3 4 3 4 3 4 3 8 4 3 8 8 8 8	3 3 3 3 3 3 3 3 4 3 4 3 4 3 NA NA NA	3 3 3 3 3 3 3 4 3 4 3 8 4 3 8 8 8 8 8 8
Fibr-1 FN EXT1 Perlecan PKCα Syn-1 Syn-2 Syn-3 Syn-4 E-cad N-cad PDGFRβ	10 6 5 6 8 6 9 12 10 9	5 6 4 4 5 4 5 3 NA NA	4 4 5 4 5 4 3 NA NA	FN kd 5 6 4 4 6 6 6 7 9 NA NA	Syn-2 kr 7 5 4 5 4 7 4 9 3 NA NA	7 7 6 4 3 8 4 9 3 NA NA	4 3 4 5 3 6 4 3 8 NA NA	11 11 4 3 4 5 4 5 11 10 8	3 3 3 3 4 3 4 3 NA NA	d Perl kd 3 3 3 3 3 4 3 4 3 4 3 NA NA	FN kd 10 10 3 3 4 4 4 4 8 NA NA	3 3 3 3 3 3 3 3 3 3 4 3 4 3 4 3 NA NA	3 3 3 3 3 3 3 3 4 3 4 3 4 3 NA NA NA	3 3 3 3 3 3 3 4 3 4 3 8 4 3 NA NA NA