

**Table S2** RT-qPCR data comparing gene expression in ARPE-19 RPE- $\mu$ T to adherent culture.

Gene	Adherent culture mean $\Delta$ Ct $\pm$ SD	RPE- $\mu$ T mean $\Delta$ Ct $\pm$ SD	P-value
FASL	7.01 $\pm$ 1.24	6.26 $\pm$ 1.50	0.0161
TIMP3	-3.23 $\pm$ 2.94	-2.93 $\pm$ 3.73	0.569
TGFB	-2.86 $\pm$ 1.57	-0.806 $\pm$ 1.76	0.0024
VEGF-A	-3.12 $\pm$ 1.67	0.239 $\pm$ 1.61	0.0049
PDGF-AA	-0.476 $\pm$ 0.841	0.392 $\pm$ 0.815	0.0005
IGF-1	5.04 $\pm$ 3.31	3.25 $\pm$ 3.66	0.0322
BDNF	-4.28 $\pm$ 1.18	-3.55 $\pm$ 1.589	0.206
GAS6	-0.758 $\pm$ 0.849	0.854 $\pm$ 0.530	0.002
FGF2	-5.22 $\pm$ 1.02	-2.66 $\pm$ 2.49	0.0002
RPE65	1.54 $\pm$ 0.878	0.749 $\pm$ 0.447	0.109
CFH	-1.69 $\pm$ 0.804	-1.97 $\pm$ 1.55	0.455
TRMP1	1.01 $\pm$ 0.351	0.659 $\pm$ 0.769	0.193
BEST1	0.367 $\pm$ 0.752	0.190 $\pm$ 0.459	0.519
FGF2R	0.852 $\pm$ 0.308	0.895 $\pm$ 0.244	0.931
MYRIP	-0.397 $\pm$ 0.414	-0.071 $\pm$ 0.482	0.151
CCL2	-5.46 $\pm$ 1.73	-4.01 $\pm$ 2.31	0.008
IL-8	-4.91 $\pm$ 1.64	-1.83 $\pm$ 1.66	0.0005
LHX2	0.0847 $\pm$ 1.73	3.77 $\pm$ 2.23	0.0005
LOXL	-4.47 $\pm$ 0.856	-1.72 $\pm$ 1.26	0.0002
KDR	3.68 $\pm$ 2.52	7.18 $\pm$ 2.30	0.001

**Table S3** RT-qPCR data comparing gene expression in ES-RPE RPE- $\mu$ T to adherent culture.

Gene	Mean $\Delta$ Ct $\pm$ SD ES-RPE adherent culture	Mean $\Delta$ Ct $\pm$ SD ES-RPE $\mu$ T	P-value
FASL	7.31 $\pm$ 0.497	7.38 $\pm$ 0.638	0.700
TIMP3	-5.50 $\pm$ 1.11	-3.82 $\pm$ 3.91	0.037
TGFB	-0.886 $\pm$ 1.04	0.473 $\pm$ 0.714	0.001
VEGF-A	-2.87 $\pm$ 1.28	2.54 $\pm$ 3.02	0.002
PDGF-AA	0.730 $\pm$ 0.476	0.560 $\pm$ 0.303	0.232
IGF-1	2.96 $\pm$ 1.08	4.91 $\pm$ 2.51	0.0068
BDNF	0.453 $\pm$ 4.06	2.01 $\pm$ 4.27	0.0049
GAS6	-0.573 $\pm$ 0.476	0.167 $\pm$ 0.488	0.032
FGF2	-1.22 $\pm$ 1.22	0.877 $\pm$ 3.06	0.0098
RPE65	0.66 $\pm$ 0.646	-0.152 $\pm$ 0.986	0.024
CFH	-3.04 $\pm$ 1.314	-0.599 $\pm$ 1.12	0.001
TRMP1	-0.433 $\pm$ 2.57	-0.439 $\pm$ 1.14	0.638
BEST1	-0.157 $\pm$ 0.977	-0.229 $\pm$ 1.53	>0.99
FGF2R	-0.217 $\pm$ 0.270	-0.269 $\pm$ 0.359	0.625
MYRIP	-1.14 $\pm$ 0.796	-0.776 $\pm$ 0.830	0.042
CCL2	-3.99 $\pm$ 3.50	-0.25 $\pm$ 4.41	0.240
IL-8	-1.59 $\pm$ 2.47	3.77 $\pm$ 3.58	0.001
LHX2	-0.834 $\pm$ 1.79	6.18 $\pm$ 2.36	0.001
LOXL	-3.67 $\pm$ 1.05	-0.72 $\pm$ 0.590	0.001
KDR	0.461 $\pm$ 2.03	3.08 $\pm$ 2.41	0.002