

OMTN, Volume 19

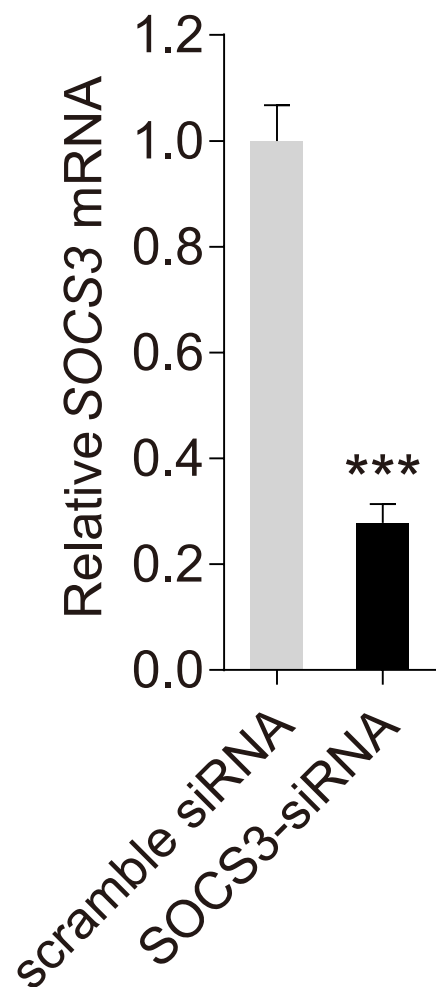
Supplemental Information

LINC00167 Regulates RPE Differentiation by Targeting the miR-203a-3p/SOCS3 Axis

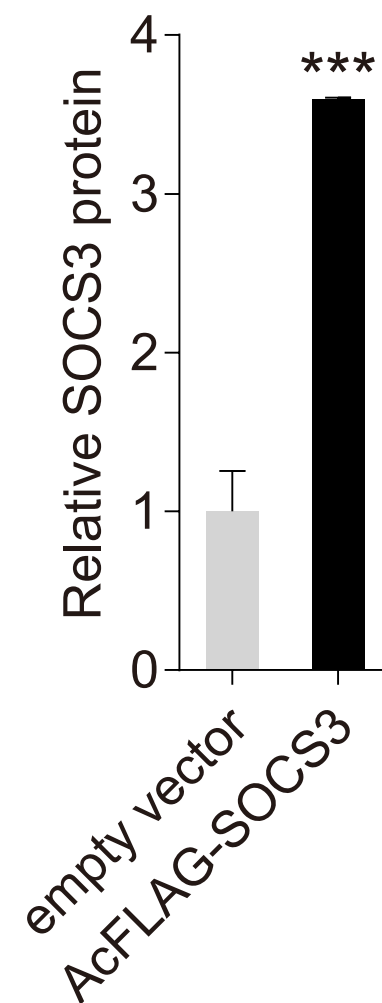
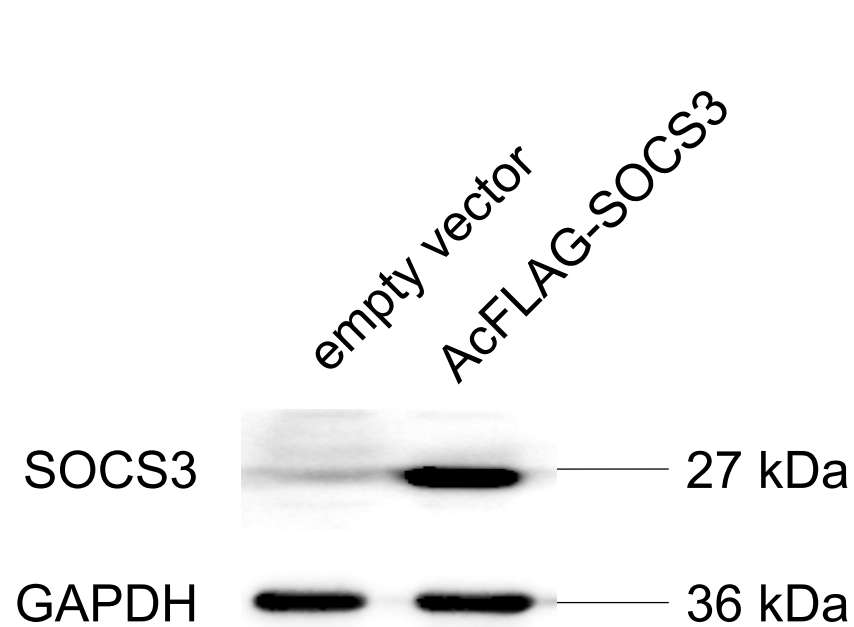
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Supplementary Figure S1

A



B



Legend to Supplementary Figure S1

Supplementary Figure S1. Expression of SOCS3 in ARPE-19 cells transfected with siRNA or AcFLAG-SOCS3.

(A) Relative mRNA expression levels of SOCS3 in ARPE-19 cells transfected with SOCS3-siRNA or scramble siRNA. (B) Relative protein expression of SOCS3 in ARPE-19 cells transfected with empty vector or AcFLAG-SOCS3.

Supplementary Table S1 Sample information and *LINC00167* expression level.

GSM No.	Macular /Extramacular	Clinical diagnosis	Age	Gender	<i>LINC00167</i> expression
GSM738433	Macular	Normal	9	male	7.1
GSM738435	Macular	Normal	10	male	6.7
GSM738437	Macular	Normal	18	female	7.1
GSM738439	Macular	Normal	21	female	5
GSM738441	Macular	Normal	34	male	9.9
GSM738443	Macular	Normal	36	female	12.5
GSM738445	Macular	Normal	37	male	7.7
GSM738447	Macular	Normal	40	female	6.9
GSM738450	Macular	Normal	45	male	4.6
GSM738452	Macular	Normal	47	male	6.9
GSM738453	Macular	Normal	48	male	8.5
GSM738455	Macular	Normal	48	male	12.1
GSM738457	Macular	Normal	49	female	12
GSM738459	Macular	Normal	49	male	16.8
GSM738461	Macular	Normal	49	male	10.3
GSM738464	Macular	Normal	61	male	6.7
GSM738466	Macular	Normal	63	male	5.7
GSM738469	Macular	Normal	65	male	7.1
GSM738471	Macular	Normal	65	male	7.7
GSM738472	Macular	Normal	65	female	7.2
GSM738474	Macular	Normal	66	female	6.5
GSM738476	Macular	Normal	67	male	5.9
GSM738478	Macular	Normal	68	female	6.7
GSM738480	Macular	Normal	68	male	5.1
GSM738483	Macular	Normal	69	male	15.2
GSM738484	Macular	Normal	73	male	6.3

GSM738486	Macular	Normal	73	male	4.3
GSM738488	Macular	Normal	74	male	5.3
GSM738491	Macular	Normal	75	female	6
GSM738494	Macular	Normal	76	female	7.1
GSM738495	Macular	Normal	76	female	6.2
GSM738497	Macular	Normal	78	male	14.2
GSM738498	Macular	Normal	78	female	7
GSM738500	Macular	Normal	78	female	5
GSM738503	Macular	Normal	81	male	5
GSM738505	Macular	Normal	82	female	8.9
GSM738506	Macular	Normal	83	male	6
GSM738508	Macular	Normal	84	male	8.2
GSM738510	Macular	Normal	84	male	4.7
GSM738511	Macular	Normal	85	female	6.6
GSM738512	Macular	Normal	86	female	6.4
GSM738514	Macular	Normal	86	male	5.7
GSM738515	Macular	Normal	87	female	8
GSM738516	Macular	Normal	88	male	7.6
GSM738518	Macular	Normal	88	female	6.4
GSM738520	Macular	Normal	88	male	9.4
GSM738521	Macular	Normal	90	female	8
GSM738523	Macular	Normal	91	male	6
GSM738525	Macular	Normal	92	male	5.6
GSM738527	Macular	Normal	93	female	6
GSM738533	Macular	MD1	63	male	9.7
GSM738535	Macular	MD1	64	male	8.3
GSM738537	Macular	MD1	65	female	10
GSM738568	Macular	MD1	83	male	4.9
GSM738584	Macular	MD1	86	female	3.4

GSM738593	Macular	MD1	86	female	4.2
GSM738554	Macular	MD2	78	female	4.1
GSM738562	Macular	MD2	79	male	8.5
GSM738597	Macular	MD2	91	male	6.2
GSM738603	Macular	MD2	93	female	5.4
GSM738529	Macular	dry AMD	43	male	7.3
GSM738531	Macular	dry AMD	63	female	10.9
GSM738539	Macular	dry AMD	71	male	4.5
GSM738543	Macular	dry AMD	76	female	5
GSM738545	Macular	dry AMD	77	male	6.2
GSM738547	Macular	dry AMD	77	female	5
GSM738549	Macular	dry AMD	77	female	5.6
GSM738553	Macular	dry AMD	78	male	3.8
GSM738564	Macular	dry AMD	80	female	6.4
GSM738566	Macular	dry AMD	83	female	6.1
GSM738576	Macular	dry AMD	86	female	3.6
GSM738580	Macular	dry AMD	86	female	5
GSM738582	Macular	dry AMD	86	female	4.5
GSM738595	Macular	dry AMD	91	female	4.3
GSM738605	Macular	dry AMD	94	female	5.9
GSM738607	Macular	dry AMD	101	female	4.1
GSM738556	Macular	clinical AMD diagnosis	78	male	6.7
GSM738572	Macular	clinical AMD diagnosis	84	male	17.4
GSM738574	Macular	clinical AMD diagnosis	85	male	6.9
GSM738585	Macular	clinical AMD diagnosis	86	female	4.7
GSM738589	Macular	clinical AMD diagnosis	88	female	8
GSM738601	Macular	clinical AMD diagnosis	92	female	7.1
GSM738542	Macular	GA	65	female	7.4
GSM738591	Macular	GA	90	male	8.8

GSM738434	Extramacular	Normal	9	male	8.2
GSM738436	Extramacular	Normal	10	male	10.6
GSM738438	Extramacular	Normal	18	female	5.6
GSM738440	Extramacular	Normal	21	female	10.4
GSM738442	Extramacular	Normal	34	male	6.2
GSM738444	Extramacular	Normal	36	female	11.7
GSM738446	Extramacular	Normal	37	male	7.9
GSM738448	Extramacular	Normal	40	female	5.2
GSM738449	Extramacular	Normal	44	female	7.5
GSM738451	Extramacular	Normal	45	male	8.5
GSM738454	Extramacular	Normal	48	male	7.7
GSM738456	Extramacular	Normal	48	male	11.1
GSM738458	Extramacular	Normal	49	female	5.1
GSM738460	Extramacular	Normal	48	male	4.3
GSM738462	Extramacular	Normal	48	male	5.4
GSM738463	Extramacular	Normal	55	male	7
GSM738465	Extramacular	Normal	61	male	9.4
GSM738467	Extramacular	Normal	63	male	7.7
GSM738468	Extramacular	Normal	63	male	7.3
GSM738470	Extramacular	Normal	65	male	6.6
GSM738473	Extramacular	Normal	65	female	5.2
GSM738475	Extramacular	Normal	65	female	4.7
GSM738477	Extramacular	Normal	67	male	8.2
GSM738479	Extramacular	Normal	68	female	7.9
GSM738481	Extramacular	Normal	68	male	8.1
GSM738482	Extramacular	Normal	69	male	4
GSM738485	Extramacular	Normal	73	male	6.4
GSM738487	Extramacular	Normal	73	male	7
GSM738489	Extramacular	Normal	74	male	6.6

GSM738490	Extramacular	Normal	74	male	7.8
GSM738492	Extramacular	Normal	75	female	4.1
GSM738493	Extramacular	Normal	75	male	10.7
GSM738496	Extramacular	Normal	76	female	5.6
GSM738499	Extramacular	Normal	78	female	9.5
GSM738501	Extramacular	Normal	78	female	8.3
GSM738502	Extramacular	Normal	78	female	12.5
GSM738504	Extramacular	Normal	81	male	7.1
GSM738507	Extramacular	Normal	83	male	5.3
GSM738509	Extramacular	Normal	84	male	8
GSM738513	Extramacular	Normal	86	female	8.3
GSM738517	Extramacular	Normal	88	male	10.6
GSM738519	Extramacular	Normal	88	female	18.2
GSM738522	Extramacular	Normal	90	female	6.4
GSM738524	Extramacular	Normal	91	male	12.3
GSM738526	Extramacular	Normal	92	male	7.7
GSM738528	Extramacular	Normal	93	female	7.8
GSM738534	Extramacular	MD1	63	male	8.3
GSM738536	Extramacular	MD1	64	male	6
GSM738538	Extramacular	MD1	65	female	9.8
GSM738569	Extramacular	MD1	83	male	11.5
GSM738594	Extramacular	MD1	86	female	11.7
GSM738555	Extramacular	MD2	78	female	9.7
GSM738563	Extramacular	MD2	79	male	14.1
GSM738598	Extramacular	MD2	91	male	17
GSM738604	Extramacular	MD2	93	female	5.4
GSM738530	Extramacular	dry AMD	43	male	8.5
GSM738532	Extramacular	dry AMD	63	female	18.1
GSM738540	Extramacular	dry AMD	71	male	6.5

GSM738544	Extramacular	dry AMD	76	female	5.5
GSM738546	Extramacular	dry AMD	77	male	6.4
GSM738548	Extramacular	dry AMD	77	female	7.4
GSM738550	Extramacular	dry AMD	77	female	6.6
GSM738565	Extramacular	dry AMD	80	female	6.1
GSM738567	Extramacular	dry AMD	83	female	12.6
GSM738577	Extramacular	dry AMD	86	female	12.3
GSM738581	Extramacular	dry AMD	86	female	9
GSM738583	Extramacular	dry AMD	86	female	3.1
GSM738596	Extramacular	dry AMD	91	female	8.7
GSM738606	Extramacular	dry AMD	94	female	11.1
GSM738557	Extramacular	clinical AMD diagnosis	78	male	3.3
GSM738573	Extramacular	clinical AMD diagnosis	84	male	5.4
GSM738575	Extramacular	clinical AMD diagnosis	85	male	5.8
GSM738586	Extramacular	clinical AMD diagnosis	86	female	9.7
GSM738590	Extramacular	clinical AMD diagnosis	88	female	7.3
GSM738602	Extramacular	clinical AMD diagnosis	92	female	6.1
GSM738541	Extramacular	GA	64	male	7
GSM738592	Extramacular	GA	90	male	11.9

Supplementary Table S2 Sequences of mimics/inhibitors/siRNA.

mimic/inhibitor/siRNA Sequence (5'→3')

NC mimic	UUCUCCGAACGUGUCACGUTT
miR-203a-3p mimic	sense: GUGAAAUGUUUAGGACCACUAG antisense: CUAGUGGUCCUAAACAUUUCAC
miR-203a-3p inhibitor	CUAGUGGUCCUAAACAUUUCAC
scramble siRNA	sense: UUCUCCGAACGUGUCACGUdTdT antisense: ACGUGACACGUUCGGAGAAdTdT
LINC00167-siRNA	sense: GCUAUGUUCGUGAUAUCUAdTdT antisense: UAGAUAUCACGAACAUAGCdTdT
SOCS3-siRNA	sense: GACCCAGUCUGGGACCAAGdTdT antisense: CUUGGUCCCAGACUGGGUCdTdT

Supplementary Table S3 Antibodies used in this study.

Anti-protein	Host	Dilution and Application	Supplier
ZO-1	Rabbit	1:100, Immunofluorescence; 1:200, Immunoblotting	Invitrogen
β -catenin	Rabbit	1:100, Immunofluorescence; 1:1000, Immunoblotting	Cell Signaling Technology
GAPDH	Rabbit	1:1000, Immunoblotting	Bioworld
MITF	Rabbit	1:1000, Immunoblotting	Cell Signaling Technology
Keratin 18	Rabbit	1:10000, Immunoblotting	Abcam
SOCS3	Rabbit	1:1000, Immunoblotting	Proteintech
