

Table SI. Total differentially expressed lncRNAs.

lncRNA	logFC(T/N)	AveExpr	t	adj.P.Val
UNC5B-AS1	1.408717	10.06446	25.30069	0.00079
AC024560	1.922623	6.521043	21.82253	0.001163
RRS1-AS1	1.06688	2.7239	20.26098	0.001183
PEX5L-AS1	1.606603	3.040411	18.42453	0.001311
DDX39B-AS1	1.315506	4.884095	18.02316	0.001423
SLC25A21-AS1	2.332919	7.219089	16.32634	0.001753
PYCARD-AS1	1.829252	8.551786	15.44486	0.001846
SNRK-AS1	1.375921	8.666802	14.59948	0.002028
LINC01243	-1.51177	3.04534	-13.6553	0.002429
AC005532	1.406952	3.136821	12.96655	0.002765
LINC00853	1.381252	5.459124	12.86188	0.002771
FARP1-AS1	2.605723	7.37362	12.27363	0.003072
GRTP1-AS1	2.368667	6.198398	11.70822	0.003501
PACERR	1.232529	6.251362	10.88928	0.004091
AP000695	1.10531	5.442772	10.1749	0.004826
LINC01004	1.170548	6.810123	9.908292	0.005153
AP000356	1.720098	6.157684	9.85	0.005243
LINC01561	-1.13247	7.63818	-9.74932	0.005417
LINC01443	1.779138	3.699574	9.73039	0.005431
UBE2E2-AS1	1.477095	3.05529	9.729263	0.005431
PPP4R1-AS1	1.130544	7.763055	9.276629	0.006215
NEAT1	-1.47837	9.782402	-9.2649	0.006227
ENO1-AS1	1.829472	6.595157	9.228764	0.006297
AC112715	1.789114	5.508897	9.14259	0.006459
AC008991	1.267021	2.942031	9.084656	0.006581
FAM225A	1.836232	5.280206	8.561405	0.007727
AC239800	1.333834	5.678319	8.548497	0.007763
LINC01607	1.144737	5.578944	8.508919	0.007828
HAGLROS	1.503837	3.116284	8.448614	0.00796
LINC01039	1.267345	3.382763	8.194149	0.008644
FAM167A-AS1	1.031795	5.825885	8.075937	0.008983
AP006216	1.004154	4.965677	8.022738	0.009124
SNHG3	1.669148	6.092848	8.013999	0.00915
AC025171	-1.13395	7.84531	-7.98723	0.009238
PRKAG2-AS1	1.902553	4.826331	7.61085	0.010544
PDZRN3-AS1	1.152825	2.830866	7.518039	0.010978
TGFB2-AS1	1.216842	6.035535	7.511655	0.010991
LINC01513	1.128455	2.903622	7.352514	0.011649
SEMA3B-AS1	2.695521	6.91823	7.271369	0.01208
LINC00880	1.907773	3.308232	7.184743	0.012485
OVOL1-AS1	1.081914	4.744521	7.105969	0.012881
SUCLA2-AS1	1.009483	4.784775	7.007953	0.013422
C21orf91-OT1	1.157345	3.162147	6.972334	0.013636
AC073072	1.532428	5.330025	6.934943	0.013798
FOCAD-AS1	1.618585	6.39775	6.688566	0.015446
LINC01191	1.438979	6.465098	6.497756	0.01673
ACTN1-AS1	1.129092	4.559458	6.457966	0.016997
LINC00884	1.213884	4.130285	6.288225	0.018289
RN7SL832P	1.464436	3.73117	6.272932	0.018457
TMEM44-AS1	1.018306	8.609135	6.251041	0.018618
RFPL3S	2.78604	5.113672	6.125742	0.01968
LINC01165	2.104502	4.047015	5.995548	0.02095
TTY23	-1.10446	2.780425	-5.98304	0.021033
SH3PXD2A-AS1	1.563142	3.533432	5.707706	0.023946
AC096570	1.747278	3.218708	5.603392	0.025237
AL928970	-1.32239	5.17808	-5.59419	0.025303

Table SI. Continued.

lncRNA	logFC(T/N)	AveExpr	t	adj.P.Val
AC020594	1.518925	5.034337	5.494265	0.026473
TAT-AS1	1.166024	4.615088	5.413245	0.02763
AC006026	-1.1049	4.333661	-5.17165	0.031015
PRRX2-AS1	1.358991	5.740998	5.140726	0.031486
KIAA1614-AS1	1.008545	6.199518	4.978732	0.034128
LINC01388	1.536358	3.54905	4.902763	0.035593
LINC01031	1.008542	5.149443	4.762278	0.038423
AF015720	-1.01988	2.946345	-4.62841	0.041587
AF124730	1.346528	3.259761	4.577679	0.042546
LINC00616	1.06826	3.689404	4.509784	0.044361
AL135791	-1.04655	4.044458	-4.47968	0.045126
AP001432	-1.02434	4.778064	-4.46428	0.045623
YTHDF3-AS1	1.120843	4.881695	4.380978	0.047671
AC010883	1.121063	5.649919	4.373969	0.047847

lncRNA, long non-coding RNA; T, human trabecular meshwork cells treated with 300  $\mu$ m hydrogen peroxide for 2 h; N, human trabecular meshwork cells treated with vehicle; FC, fold change; adj.P.Val, adjusted P-value; AS, antisense; AveExpr, average expression.

Table SII. Differentially expressed mRNAs in the ceRNA network.

mRNA	Ensembl ID	Regulation	LogFC(T/N)	adj.P.Val
ABL2	ENSG00000143322	Up	1.693411	0.002122
ARC	ENSG00000198576	Up	3.903818	0.000357
BMF	ENSG00000104081	Down	-1.15209	0.013761
BMPER	ENSG00000164619	Down	-1.05136	0.033135
CCNT2	ENSG00000082258	Down	-1.03952	0.038268
CDKN1A	ENSG00000124762	Up	1.012227	0.004479
CHAC1	ENSG00000128965	Up	1.747641	0.003501
CSF1R	ENSG00000182578	Up	1.060447	0.021792
DACH1	ENSG00000276644	Down	-1.39671	0.032282
DNAJC27	ENSG00000115137	Down	-1.10502	0.013467
EIF5	ENSG00000100664	Up	2.145774	0.00079
ENDOU	ENSG00000111405	Up	1.352785	0.027757
FAM84B	-	Up	1.887724	0.000425
FOS	ENSG00000170345	Up	1.73367	0.016161
GPCPD1	ENSG00000125772	Up	1.307495	0.004625
H3F3B	ENSG00000132475	Up	1.105638	0.002585
JUN	ENSG00000177606	Down	-1.1658	0.008024
KIAA1147	ENSG00000257093	Down	-1.47068	0.011053
MAGI1	ENSG00000151276	Down	-1.23163	0.007235
MT1E	ENSG00000169715	Up	1.078662	0.017187
MYT1	ENSG00000169715	Up	1.024079	0.016259
NAPEPLD	ENSG00000161048	Down	-1.02111	0.003072
NPAS3	ENSG00000151322	Down	-1.14347	0.031567
PARD6B	ENSG00000124171	Down	-1.00875	0.041654
PDIK1L	ENSG00000175087	Down	-1.14492	0.027008
PER2	ENSG00000132326	Up	1.07512	0.003699
PMAIP1	ENSG00000141682	Up	2.72737	0.000357
PPM1D	ENSG00000170836	Up	1.366989	0.001491
PRDM1	ENSG00000057657	Up	1.891952	0.001262
PTGS2	ENSG00000073756	Up	1.430514	0.002417
RBM20	ENSG00000203867	Up	2.145303	0.001712
RRAGD	ENSG00000025039	Up	1.593463	0.022303
RYBP	ENSG00000163602	Up	1.011499	0.001576
SESN2	ENSG00000130766	Up	1.771505	0.00079
SIK1	ENSG00000142178	Up	3.181635	0.000894
SLC16A9	ENSG00000165449	Up	1.525773	0.016874
SOX4	ENSG00000124766	Down	-1.41986	0.015974
TRIM36	ENSG00000152503	Up	1.151476	0.014246
YOD1	ENSG00000180667	Up	1.022108	0.001846
YRDC	ENSG00000196449	Up	1.232647	0.002204

ceRNA, competing endogenous RNA; T, human trabecular meshwork cells treated with 300  $\mu$ m hydrogen peroxide for 2 h; N, human trabecular meshwork cells treated with vehicle; FC, fold change; adj.P.Val, adjusted P-value.