

SUPPLEMENTAL MATERIAL

Xi et al., <http://www.jem.org/cgi/content/full/jem.20150894/DC1>

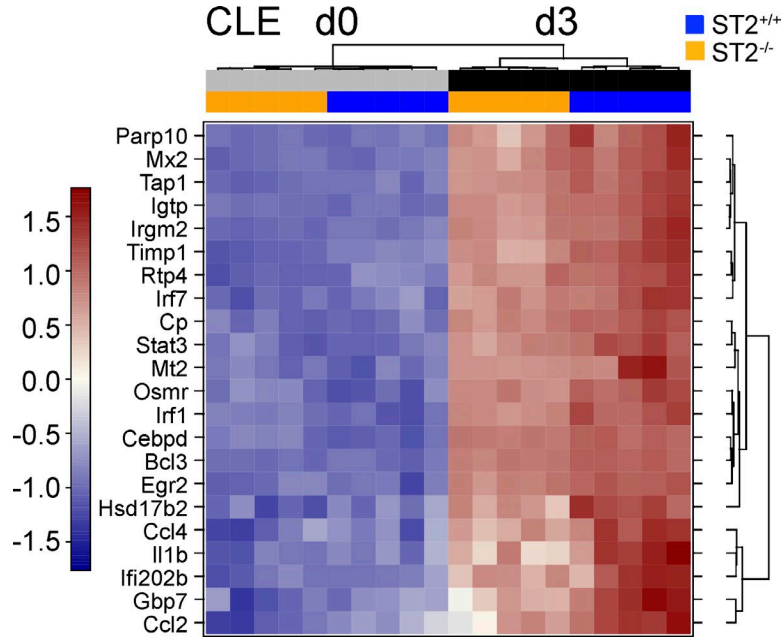


Figure S1. **Microarray analysis of light-injured retina from ST2^{+/+} and ST2^{-/-} mice.** ST2^{+/+} and ST2^{-/-} mice were exposed to bright light for 3 d. Gene expression in the retina before and after CLE was analyzed by microarray. *n* = 5/group. Heat map of the top 22 light exposure-inducible genes that are decreased in ST2^{-/-} mice compared with ST2^{+/+} mice.

Table S1. Top 22 light exposure-inducible genes that are decreased in ST2^{-/-} mice compared to ST2^{+/+} mice

Gene symbol	Log ₂ fold change	P-value
<i>Parp10</i>	-0.4070	0.031338
<i>Mx2</i>	-0.5531	0.023956
<i>Tap1</i>	-0.3652	0.008909
<i>Igtp</i>	-0.4489	0.011741
<i>Irgm2</i>	-0.4251	0.028030
<i>Timp1</i>	-0.4043	0.004441
<i>Rtp4</i>	-0.6969	0.016280
<i>Irf7</i>	-0.3266	0.031338
<i>Cp</i>	-0.4225	0.007205
<i>Stat3</i>	-0.3860	0.006960
<i>Mt2</i>	-0.4169	0.047613
<i>Osmr</i>	-0.3798	0.006583
<i>Irf1</i>	-0.3453	0.004749
<i>Cebpd</i>	-0.3662	0.004441
<i>Bcl3</i>	-0.4159	0.002762
<i>Egr2</i>	-0.4352	0.004441
<i>Hsd17b2</i>	-0.4163	0.004441
<i>Ccl4</i>	-0.4988	0.007205
<i>Il1b</i>	-0.4339	0.010421
<i>Ifi202b</i>	-0.6794	0.044264
<i>Gbp7</i>	-0.5574	0.004441
<i>Ccl2</i>	-0.3398	0.013638

Table S2. Gene ontology (GO) analysis of genes with decreased expression in ST2^{-/-} mice compared to ST2^{+/+} mice

GO ID	Biological function	P-value	Genes down-regulated
GO:0006886	Intracellular protein transport	0.001504	<i>Bcl3, Egr2, Il1b, Stat3, Tap1, Rtp4, Parp10</i>
GO:0071345	Cellular response to cytokine stimulus	0.001569	<i>Igtp, Il1b, Irf1, Osmr, Ccl2, Stat3, Ifi202b, Irf7, Gbp7</i>
GO:0034124	MyD88-dependent TLR signaling pathway	0.002303	<i>Irf1, Irf7</i>
GO:0060416	Response to growth hormone	0.002303	<i>Irf1, Stat3</i>
GO:0045944	Transcription from RNA Pol II promoter	0.004203	<i>Bcl3, Cebpd, Egr2, Il1b, Irf1, Stat3, Irf7</i>
GO:0006913	Nucleocytoplasmic transport	0.005380	<i>Bcl3, Egr2, Il1b, Stat3, Parp10</i>
GO:0032870	Cellular response to hormone stimulus	0.005669	<i>Egr2, Il1b, Irf1, Stat3</i>
GO:0042089	Cytokine biosynthetic process	0.005669	<i>Bcl3, Il1b, Irf1, Irf7</i>
GO:0070727	Cellular macromolecule localization	0.006119	<i>Bcl3, Egr2, Il1b, Stat3, Tap1, Rtp4, Parp10</i>
GO:0042221	Response to chemical	0.006125	<i>Cp, Egr2, Hsd17b2, Igtp, Il1b, Irf1, Mt2, Mx2, Osmr, Ccl2, Ccl4, Stat3, Ifi202b, Irf7, Irgm2, Rtp4, Gbp7</i>
GO:0031330	Negative regulation of cellular catabolism	0.006697	<i>Stat3, Timp1</i>
GO:0045064	Th2 cell differentiation	0.006697	<i>Bcl3, Irf1</i>
GO:0046688	Response to copper ion	0.006697	<i>Cp, Mt2</i>
GO:1901652	Response to peptide	0.007156	<i>Egr2, Il1b, Irf1, Stat3</i>
GO:0042832	Defense response to protozoan	0.007270	<i>Bcl3, Irgm2, Gbp7</i>
GO:0010557	Regulation of Macromolecule biosynthesis	0.007896	<i>Bcl3, Cebpd, Egr2, Il1b, Irf1, Ccl2, Stat3, Irf7</i>
GO:0034341	Response to interferon-gamma	0.008882	<i>Irf1, Ccl2, Irgm2, Gbp7</i>

Top 17 GO terms enriched are shown.