

SUPPLEMENTAL MATERIAL LEGENDS

Supplemental Material S1: PCR analysis for expression of EGFP mRNA in Opn4-EGFP mouse spleen, liver, lung, cerebellum, brain cortex and retina. Product of the expected size (255-bp) for EGFP was obtained only from retinal RNA. Beta-actin, in contrast, was detected in all tissues probed.

Supplemental Material S2: RT-PCR method.

Supplemental Material S3: Bursts of depolarization during the first postnatal week in ipRGCs of Opn4-EGFP mice. Spontaneous bursts of depolarization were detected in ipRGCs at early postnatal stages (P0-7) in the absence of light stimulation. Examples are shown at P2 (left column) and P6 (right column).