

Resource Summary Report

Generated by [Kravitz](#) on Sep 20, 2026

STOCK Opn4^{tm1}(cre)Saha/J

RRID:IMSR_JAX:035925

Type: Organism

Proper Citation

RRID:IMSR_JAX:035925

Organism Information

URL: <https://www.jax.org/strain/035925>

Proper Citation: RRID:IMSR_JAX:035925

Description: Mus musculus with name STOCK Opn4^{tm1}(cre)Saha/J from IMSR.

Species: Mus musculus

Synonyms: STOCK Opn4/J

Notes: gene symbol note: opsin 4 (melanopsin); mutant stock: Opn4

Affected Gene: opsin 4 (melanopsin)

Genomic Alteration: targeted mutation 1; Samer Hattar

Catalog Number: JAX:035925

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Opn4^{tm1}(cre)Saha/J

Record Creation Time: 20250513T053851+0000

Record Last Update: 20260919T055034+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Opn4^{tm1}(cre)Saha/J.

No alerts have been found for STOCK Opn4^{tm1}(cre)Saha/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Aranda ML, et al. (2026) Light tunes long-term threat avoidance behavior in male mice. Nature communications, 17(1).

Daly KM, et al. (2026) M4-ipRGCs regulate contrast sensitivity in vision. Cell reports, 45(7), 117662.

Aranda ML, et al. (2025) Genetic tuning of retinal ganglion cell subtype identity to drive visual behavior. Nature communications, 16(1), 8678.

Miguel KC, et al. (2025) Melanopsin contributes to circadian photic responses in mice in a sex-dependent manner. bioRxiv : the preprint server for biology.

Nimkar K, et al. (2025) Molecular and spatial analysis of ganglion cells on retinal flatmounts identifies perivascular neurons resilient to glaucoma. Neuron.

Toma K, et al. (2024) Perivascular neurons instruct 3D vascular lattice formation via neurovascular contact. Cell, 187(11), 2767.

Dyer B, et al. (2024) Defining spatial nonuniformities of all ipRGC types using an improved Opn4cre recombinase mouse line. Cell reports methods, 4(8), 100837.

Huang YF, et al. (2023) Light disrupts social memory via a retina-to-supraoptic nucleus circuit. EMBO reports, 24(10), e56839.