

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 30, 2026

[Opn4<sup>tm1.1\(cre\)Saha</sup>/Opn4<sup>+</sup>; Pou4f2<sup>tm2.1Nat</sup>/Pou4f2<sup>+</sup>](#)

RRID:MGI:5285910

Type: Organism

## Proper Citation

RRID:MGI:5285910

## Organism Information

**URL:**

**Proper Citation:** RRID:MGI:5285910

**Description:** Allele Detail: Targeted This is a legacy resource.

**Species:** Mus musculus

**Notes:** Allele Detail: Targeted This is a legacy resource.

**Phenotype:** abnormal innervation, abnormal suprachiasmatic nucleus morphology

**Affected Gene:** Pou4f2, Opn4

**Genomic Alteration:** tm2.1Nat, tm1.1(cre)Saha

**Catalog Number:** 5285910

**Background:** involves: 129 \* C57BL/6

**Database:** MGI, Mouse Genome Informatics MGI

**Database Abbreviation:** MGI

**Availability:** Availability unknown check source stock center

**Source References:** [PMID:21765429](#)

**Organism Name:** Opn4<sup>tm1.1(cre)Saha</sup>/Opn4<sup>+</sup>; Pou4f2<sup>tm2.1Nat</sup>/Pou4f2<sup>+</sup>

**Record Creation Time:** 20240120T190211+0000

**Record Last Update:** 20240130T201756+0000

## Ratings and Alerts

No rating or validation information has been found for  $\text{Opn4}^{\text{tm1.1}(\text{cre})\text{Saha}/\text{Opn4}^+; \text{Pou4f2}^{\text{tm2.1Nat}}/\text{Pou4f2}^+$ .

No alerts have been found for  $\text{Opn4}^{\text{tm1.1}(\text{cre})\text{Saha}/\text{Opn4}^+; \text{Pou4f2}^{\text{tm2.1Nat}}/\text{Pou4f2}^+$ .

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** MGI, Mouse Genome Informatics MGI

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## Usage and Citation Metrics

We found 2 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#).

Contreras E, et al. (2023) Melanopsin activates divergent phototransduction pathways in intrinsically photosensitive retinal ganglion cell subtypes. *eLife*, 12.

Rupp AC, et al. (2019) Distinct ipRGC subpopulations mediate light's acute and circadian effects on body temperature and sleep. *eLife*, 8.