

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 29, 2026

[Opn4^{tm1.1\(cre\)Saha}/Opn4⁺; Pou4f2^{tm2.1Nat}/Pou4f2⁺](#)

RRID:MGI:5285910

Type: Organism

Proper Citation

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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^{tm1.1(cre)Saha}/Opn4⁺; Pou4f2^{tm2.1Nat}/Pou4f2⁺

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 $\text{Opn4}^{\text{tm1.1}(\text{cre})\text{Saha}/\text{Opn4}^+; \text{Pou4f2}^{\text{tm2.1Nat}}/\text{Pou4f2}^+$.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

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.