# Resource Summary Report

Generated by RRID on Jul 30, 2026

## B6.Cg-Pde6b$^{+}$ Tg(Rho-icre)1Ck/Boc

RRID:IMSR_JAX:015850
Type: Organism

### Proper Citation

RRID:IMSR_JAX:015850

### Organism Information

**URL:** https://www.jax.org/strain/015850

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**Description:** Mus musculus with name B6.Cg-Pde6b$^{+}$ Tg(Rho-icre)1Ck/Boc from IMSR.

**Species:** Mus musculus

**Synonyms:** B6;SJL-Pde6b+> Tg(Rho-icre)1Ck/Boc. B6;SJL-Pde6b+> Tg(Rho-cre)1Ck/Boc

**Notes:** gene symbol note: |transgene insertion 1; Ching-Kang Chen|phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide|rhodopsin; mutant stock: |Tg(Rho-icre)1Ck|Pde6b|Rho

**Affected Gene:** |transgene insertion 1; Ching-Kang Chen|phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide|rhodopsin

**Genomic Alteration:** transgene insertion 1; Ching-Kang Chen|wild type

**Catalog Number:** JAX:015850

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** B6.Cg-Pde6b$^{+}$ Tg(Rho-icre)1Ck/Boc

**Record Creation Time:** 20250513T053728+0000

**Record Last Update:** 20260725T044437+0000

### Ratings and Alerts

No rating or validation information has been found for B6.Cg-Pde6b$^{+}$ Tg(Rho-icre)1Ck/Boc.

No alerts have been found for B6.Cg-Pde6b$^{+}$ Tg(Rho-icre)1Ck/Boc.

## Data and Source Information

**Source:** Integrated Animals

**Source Database:** JAX Mice and Services

## Usage and Citation Metrics

We found 13 mentions in open access literature.

**Listed below are recent publications.** The full list is available at RRID .


Thoreson WB, et al. (2025) Rod Inputs Arrive at Horizontal Cell Somas in Mouse Retina Solely via Rod-Cone Coupling. eNeuro, 12(6).

Barta CL, et al. (2024) Retinal inputs that drive optomotor responses of mice under mesopic conditions. IBRO neuroscience reports, 17, 138.

Thoreson WB, et al. (2024) Rod inputs arrive at horizontal cell somas in mouse retina solely via rod-cone coupling. bioRxiv : the preprint server for biology.

Sladek AL, et al. (2023) Using optogenetics to dissect rod inputs to OFF ganglion cells in the mouse retina. Frontiers in ophthalmology, 3.

Thorson MT, et al. (2023) Nrl:CreERT2 mouse model to induce mosaic gene expression in rod photoreceptors. Frontiers in molecular neuroscience, 16, 1161127.

Hyde LF, et al. (2022) A Dpagt1 Missense Variant Causes Degenerative Retinopathy without Myasthenic Syndrome in Mice. International journal of molecular sciences, 23(19).

Lankford CK, et al. (2022) Cone-Driven Retinal Responses Are Shaped by Rod But Not Cone HCN1. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(21), 4231.

Mesnard CS, et al. (2022) Synaptotagmins 1 and 7 in vesicle release from rods of mouse retina. Experimental eye research, 225, 109279.

Burger CA, et al. (2021) LKB1 and AMPK instruct cone nuclear position to modify visual function. Cell reports, 34(5), 108698.

Care RA, et al. (2020) Mature Retina Compensates Functionally for Partial Loss of Rod Photoreceptors. Cell reports, 31(10), 107730.

Grassmeyer JJ, et al. (2019) Ca2+ sensor synaptotagmin-1 mediates exocytosis in mammalian photoreceptors. eLife, 8.

Alves CH, et al. (2019) CRB2 Loss in Rod Photoreceptors Is Associated with Progressive Loss of Retinal Contrast Sensitivity. International journal of molecular sciences, 20(17).

Sarin S, et al. (2018) Role for Wnt Signaling in Retinal Neuropil Development: Analysis via RNA-Seq and In??Vivo Somatic CRISPR Mutagenesis. Neuron, 98(1), 109.