

Resource Summary Report

Generated by [kravitz2](#) on Aug 10, 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>

Proper Citation: RRID:IMSR_JAX:015850

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-icre)1Ck/Boc

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

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

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: 20260808T050933+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 15 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Rueda EM, et al. (2026) Electron transport chain activity balances cell cycle progression and differentiation of retinal progenitor cells. *Experimental eye research*, 270, 111127.

Landowski M, et al. (2026) Mitofusins are required for specialized mitochondrial morphology and function of rod photoreceptor cells. *Frontiers in cell and developmental biology*, 14, 1724328.

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.