

Resource Summary Report

Generated by [NIF](#) on Aug 14, 2026

[Tg\(Kcng4-cre/ERT2\)#Brsk; Gt\(ROSA\)26Sor^{tm1Hjf}/Gt\(ROSA\)26Sor⁺](#)

RRID:MGI:5634510

Type: Organism

Proper Citation

RRID:MGI:5634510

Organism Information

URL:

Proper Citation: RRID:MGI:5634510

Description: Allele Detail: Transgenic, Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Transgenic, Targeted This is a legacy resource.

Affected Gene: Gt(ROSA)26Sor

Genomic Alteration: Tg(Kcng4-cre/ERT2)#Brsk, tm1Hjf

Catalog Number: 5634510

Background: involves: C57BL/6

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Organism Name: Tg(Kcng4-cre/ERT2)#Brsk; Gt(ROSA)26Sor^{tm1Hjf}/Gt(ROSA)26Sor⁺

Record Creation Time: 20240120T190028+0000

Record Last Update: 20240130T201655+0000

Ratings and Alerts

No rating or validation information has been found for Tg(Kcng4-cre/ERT2)#Brsk; Gt(ROSA)26Sor^{tm1Hjf}/Gt(ROSA)26Sor⁺.

No alerts have been found for Tg(Kcng4-cre/ERT2)#Brsk; Gt(ROSA)26Sor^{tm1Hjf}/Gt(ROSA)26Sor⁺.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Kuo SP, et al. (2025) Cone bipolar cell synapses generate transient versus sustained signals in parallel ON pathways of the mouse retina. *eLife*, 13.

Lee T, et al. (2024) Specific retinal neurons regulate context-dependent defensive responses to visual threat. *PNAS nexus*, 3(10), pgae423.

McCracken S, et al. (2023) Diversity in homeostatic calcium set points predicts retinal ganglion cell survival following optic nerve injury in vivo. *Cell reports*, 42(10), 113165.

Zhao M, et al. (2023) Osteopontin drives retinal ganglion cell resiliency in glaucomatous optic neuropathy. *Cell reports*, 42(9), 113038.

DePiero VJ, et al. (2022) Phase advancing is a common property of multiple neuron classes in the mouse retina. *eNeuro*, 9(5).

Rochon PL, et al. (2021) The cell adhesion molecule Sdk1 shapes assembly of a retinal circuit that detects localized edges. *eLife*, 10.

Hellmer CB, et al. (2020) Dopaminergic Modulation of Signal Processing in a Subset of Retinal Bipolar Cells. *Frontiers in cellular neuroscience*, 14, 253.

Yang N, et al. (2020) The Susceptibility of Retinal Ganglion Cells to Optic Nerve Injury is Type Specific. *Cells*, 9(3).

Christensen I, et al. (2019) The Susceptibility of Retinal Ganglion Cells to Glutamatergic Excitotoxicity Is Type-Specific. *Frontiers in neuroscience*, 13, 219.

Wen X, et al. (2018) Elevated Pressure Increases Ca²⁺ Influx Through AMPA Receptors in Select Populations of Retinal Ganglion Cells. *Frontiers in cellular neuroscience*, 12, 162.

Krieger B, et al. (2017) Four alpha ganglion cell types in mouse retina: Function, structure, and molecular signatures. *PLoS one*, 12(7), e0180091.

Krishnaswamy A, et al. (2015) Sidekick 2 directs formation of a retinal circuit that detects differential motion. *Nature*, 524(7566), 466.