

Resource Summary Report

Generated by T1D on Sep 19, 2026

B6.Cg-Tg(Slc32a1-COP4*H134R/EYFP)8Gfng/J

RRID:IMSR_JAX:014548

Type: Organism

Proper Citation

RRID:IMSR_JAX:014548

Organism Information

URL: <https://www.jax.org/strain/014548>

Proper Citation: RRID:IMSR_JAX:014548

Description: Mus musculus with name B6.Cg-Tg(Slc32a1-COP4*H134R/EYFP)8Gfng/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: solute carrier family 32 (GABA vesicular transporter); member 1|transgene insertion 8; Guoping Feng||Channelrhodopsin; mutant strain|congenic strain: Slc32a1|Tg(Slc32a1-COP4*H134R/EYFP)8Gfng||COP4

Affected Gene: solute carrier family 32 (GABA vesicular transporter); member 1|transgene insertion 8; Guoping Feng||Channelrhodopsin

Genomic Alteration: transgene insertion 8; Guoping Feng

Catalog Number: JAX:014548

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Slc32a1-COP4*H134R/EYFP)8Gfng/J

Record Creation Time: 20250513T053727+0000

Record Last Update: 20260919T054915+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Slc32a1-COP4*H134R/EYFP)8Gfng/J.

No alerts have been found for B6.Cg-Tg(Slc32a1-COP4*H134R/EYFP)8Gfng/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 62 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Vantomme G, et al. (2026) Beyond seizure control: Identifying deficits in cognitive networks in absence epilepsy. *Science advances*, 12(20), eaed3642.

Bennett C, et al. (2026) Map of spiking activity underlying change detection in the mouse visual system. *Cell*, 189(15), 4775.

Feng X, et al. (2026) Slow-wave sleep engages brainstem circuitry to prevent stress-induced anxiety. *Neuron*.

Shen J, et al. (2026) Anterior lateral motor cortex enables contextual decision-making via dynamic reconfiguration of local circuits. *Cell reports*, 45(6), 117456.

Ye Z, et al. (2025) Ultra-high-density Neuropixels probes improve detection and identification in neuronal recordings. *Neuron*, 113(23), 3966.

Gantar I, et al. (2025) Protocol for reproducible EZ clearing and labeling, including optimized steps and quantified fluorescence retention on mouse tissue. *STAR protocols*, 6(4), 104105.

Rankin G, et al. (2024) Nerve injury disrupts temporal processing in the spinal cord dorsal horn through alterations in PV+ interneurons. *Cell reports*, 43(2), 113718.

Bennett C, et al. (2024) SHIELD: Skull-shaped hemispheric implants enabling large-scale electrophysiology datasets in the mouse brain. *Neuron*, 112(17), 2869.

Lohse M, et al. (2024) Subcortical origin of nonlinear sound encoding in auditory cortex. *Current biology : CB*, 34(15), 3405.

Perez CI, et al. (2024) Tesofensine, a novel antiobesity drug, silences GABAergic hypothalamic neurons. *PloS one*, 19(4), e0300544.

Yao J, et al. (2024) Prefrontal projections modulate recurrent circuitry in the insular cortex to support short-term memory. *Cell reports*, 43(2), 113756.

Vestergaard M, et al. (2023) The cellular coding of temperature in the mammalian cortex. *Nature*, 614(7949), 725.

Ferguson B, et al. (2023) Prefrontal PV interneurons facilitate attention and are linked to attentional dysfunction in a mouse model of absence epilepsy. *eLife*, 12.

Kim S, et al. (2023) Whole-brain mapping of effective connectivity by fMRI with cortex-wide patterned optogenetics. *Neuron*.

Majumder S, et al. (2023) Cell-type-specific plasticity shapes neocortical dynamics for motor learning. *bioRxiv : the preprint server for biology*.

Luis-Islas J, et al. (2022) Optoception: Perception of Optogenetic Brain Perturbations. *eNeuro*, 9(3).

Lee JY, et al. (2022) Role of anterior cingulate cortex inputs to periaqueductal gray for pain avoidance. *Current biology : CB*, 32(13), 2834.

Pinto L, et al. (2022) Multiple timescales of sensory-evidence accumulation across the dorsal cortex. *eLife*, 11.

Jia X, et al. (2022) Divergent neurocircuitry dissociates two components of the stress response: glucose mobilization and anxiety-like behavior. *Cell reports*, 41(6), 111586.

Arshad MN, et al. (2022) Hippocampal transplants of fetal GABAergic progenitors regulate adult neurogenesis in mice with temporal lobe epilepsy. *Neurobiology of disease*, 174, 105879.