

Resource Summary Report

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

Affected Gene: transgene insertion 8; Guoping Feng|solute carrier family 32 (GABA vesicular transporter); member 1|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: 20260725T044436+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 57 mentions in open access literature.

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

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.

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

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

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).

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

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

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.

Warriner CL, et al. (2022) Motor cortical influence relies on task-specific activity covariation. *Cell reports*, 40(13), 111427.

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.

Tseng SY, et al. (2022) Shared and specialized coding across posterior cortical areas for dynamic navigation decisions. *Neuron*, 110(15), 2484.

Sych Y, et al. (2022) Dynamic reorganization of the cortico-basal ganglia-thalamo-cortical network during task learning. *Cell reports*, 40(12), 111394.

Zhou X, et al. (2021) Reduced Firing of Nucleus Accumbens Parvalbumin Interneurons Impairs Risk Avoidance in DISC1 Transgenic Mice. *Neuroscience bulletin*, 37(9), 1325.

Moon HS, et al. (2021) Contribution of Excitatory and Inhibitory Neuronal Activity to BOLD fMRI. *Cerebral cortex (New York, N.Y. : 1991)*, 31(9), 4053.