

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

B6.Cg-Gt(ROSA)26Sor^{tm32}(CAG-COP4*H134R/EYFP)Hze/J

RRID:IMSR_JAX:024109

Type: Organism

Proper Citation

RRID:IMSR_JAX:024109

Organism Information

URL: <https://www.jax.org/strain/024109>

Proper Citation: RRID:IMSR_JAX:024109

Description: Mus musculus with name B6.Cg-Gt(ROSA)26Sor^{tm32}(CAG-COP4*H134R/EYFP)Hze/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Channelrhodopsin|gene trap ROSA 26; Philippe Soriano; mutant strain|congenic strain: COP4|Gt(ROSA)26Sor

Affected Gene: Channelrhodopsin|gene trap ROSA 26; Philippe Soriano

Genomic Alteration: targeted mutation 32; Hongkui Zeng

Catalog Number: JAX:024109

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Gt(ROSA)26Sor^{tm32}(CAG-COP4*H134R/EYFP)Hze/J

Record Creation Time: 20250513T053750+0000

Record Last Update: 20260725T044457+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Gt(ROSA)26Sor^{tm32}(CAG-COP4*H134R/EYFP)Hze/J.

No alerts have been found for B6.Cg-Gt(ROSA)26Sor^{tm32}(CAG-COP4*H134R/EYFP)Hze/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 173 mentions in open access literature.

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

Gutman-Wei AY, et al. (2026) Cell-type-selective synaptogenesis during the development of layer 6 corticothalamic neuron connectivity in the mammalian neocortex. Cell reports, 45(1), 116792.

Zhang B, et al. (2025) Complementary corticostriatal circuits orchestrate action repetition and switching. Science advances, 11(21), eadt0854.

Singhal SM, et al. (2025) Mu-opioid receptor activation potentiates excitatory transmission at the habenulo-peduncular synapse. Cell reports, 44(7), 115874.

Talbi R, et al. (2025) Melanocortin-responsive Kiss1 neurons of the arcuate nucleus drive energy expenditure through glutamatergic signaling to the dorsomedial hypothalamus. bioRxiv : the preprint server for biology.

Kim SJ, et al. (2025) A consensus definition for deep layer 6 excitatory neurons in mouse somatosensory, visual, and motor cortex. Cell reports, 44(9), 116167.

Tripathi GM, et al. (2025) Synaptic-like coupling of macrophages to myofibers regulates muscle repair. Current biology : CB, 35(24), 6010.

Chen CH, et al. (2025) Characterization of direct Purkinje cell outputs to the brainstem. eLife, 13.

Upadhyay A, et al. (2025) The dorsal column nuclei scale mechanical sensitivity in naive and neuropathic pain states. Cell reports, 44(4), 115556.

Wang DC, et al. (2025) Distinct neural representations of hunger and thirst in neonatal mice before the emergence of food- and water-seeking behaviors. Current biology : CB, 35(13), 3106.

Brown ST, et al. (2025) High-speed voltage imaging of action potentials in molecular layer interneurons reveals sensory-driven synchrony that augments movement. Cell reports, 44(8), 116148.

Caccavano AP, et al. (2025) Divergent opioid-mediated suppression of inhibition between hippocampus and neocortex across species and development. *Neuron*, 113(11), 1805.

Robinson HL, et al. (2025) Large sharp-wave ripples promote hippocampo-cortical memory reactivation and consolidation. *bioRxiv : the preprint server for biology*.

Wiera G, et al. (2025) Pregnenolone sulfate enables synapse-specific metaplastic gating of heterosynaptic GABAergic plasticity. *British journal of pharmacology*.

Wei Y, et al. (2025) Sympathetic functional units encoded by genetically defined postganglionic neurons. *Neuron*.

Li Y, et al. (2025) Motor Cortical Output Integrates Distorted Proprioceptive Feedback. *bioRxiv : the preprint server for biology*.

Druart M, et al. (2025) Cell-type-specific auditory responses in the striatum are shaped by feedforward inhibition. *Cell reports*, 44(1), 115090.

Del Rosario J, et al. (2025) Lateral inhibition in V1 controls neural and perceptual contrast sensitivity. *Nature neuroscience*, 28(4), 836.

Su X, et al. (2025) Identification of VGLUT3-expressing LTMRs-recruited spinal circuits for itch inhibition. *Molecular brain*, 18(1), 74.

Hunker AC, et al. (2025) Enhancer AAV toolbox for accessing and perturbing striatal cell types and circuits. *Neuron*, 113(10), 1507.

Greenstreet F, et al. (2025) Dopaminergic action prediction errors serve as a value-free teaching signal. *Nature*, 643(8074), 1333.