

Resource Summary Report

Generated by PRECISE-TBI on Aug 1, 2026

B6.Cg-Gt(ROSA)26Sor^{tm27.1}(CAG-COP4*H134R/tdTomato)Hze/J

RRID:IMSR_JAX:012567

Type: Organism

Proper Citation

RRID:IMSR_JAX:012567

Organism Information

URL: <https://www.jax.org/strain/012567>

Proper Citation: RRID:IMSR_JAX:012567

Description: Mus musculus with name B6.Cg-Gt(ROSA)26Sor^{tm27.1}(CAG-COP4*H134R/tdTomato)Hze/J from IMSR.

Species: Mus musculus

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

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

Genomic Alteration: targeted mutation 27.1; Hongkui Zeng

Catalog Number: JAX:012567

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.Cg-Gt(ROSA)26Sor^{tm27.1}(CAG-COP4*H134R/tdTomato)Hze/J

Record Creation Time: 20250513T053721+0000

Record Last Update: 20260801T050433+0000

Ratings and Alerts

- Used for transgenic organism by the Human Islet Research Network community. Contact(s): [Joana Almaca](#), [Alejandro Tamayo-Garcia](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for B6.Cg-Gt(ROSA)26Sor^{tm27.1}(CAG-COP4*H134R/tdTomato)Hze/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 43 mentions in open access literature.

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

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

Lynch N, et al. (2025) Calcitonin Gene-Related Peptide (CGRP)-Expressing Neurons in the External Lateral Parabrachial Area Regulate Pain-Induced Sleep Disturbances. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e00325.

Olguin AGR, et al. (2025) Cadherin 4 assembles a family of color-preferring retinal circuits that respond to light offset. Current biology : CB, 35(6), 1298.

Cui Y, et al. (2025) Sigh generation in preBötzinger complex. eLife, 13.

Bulk J, et al. (2025) A food-sensitive olfactory circuit drives anticipatory satiety. Nature metabolism, 7(6), 1246.

Liu S, et al. (2025) Neural basis of transcutaneous electrical nerve stimulation for neuropathic pain relief. Neuron.

Cumpana L, et al. (2025) Corticotropin-releasing hormone modulates NREM sleep consolidation through the thalamic reticular nucleus. Nature communications, 16(1), 7720.

Bareghamyan A, et al. (2025) A toolbox for ablating excitatory and inhibitory synapses. eLife, 13.

Zawieja SD, et al. (2025) Cellular characterization of the mouse collecting lymphatic vessels reveals that lymphatic muscle cells are the innate pacemaker cells. eLife, 12.

Romano V, et al. (2025) Stage-dependent cerebrocerebellar communication during sensorimotor processing. Nature communications, 16(1), 8812.

Stavely R, et al. (2024) Mature enteric neurons have the capacity to reinnervate the intestine with glial cells as their guide. Neuron, 112(18), 3143.

Lynch N, et al. (2024) Identifying the Brain Circuits that Regulate Pain-Induced Sleep Disturbances. *bioRxiv : the preprint server for biology*.

Lv Z, et al. (2024) Clearance of β -amyloid and synapses by the optogenetic depolarization of microglia is complement selective. *Neuron*, 112(5), 740.

Blot FGC, et al. (2023) Purkinje cell microzones mediate distinct kinematics of a single movement. *Nature communications*, 14(1), 4358.

Vogel A, et al. (2023) Repetitive and compulsive behavior after Early-Life-Pain associated with reduced long-chain sphingolipid species. *Cell & bioscience*, 13(1), 155.

Butti E, et al. (2022) Neural precursor cells tune striatal connectivity through the release of IGFBPL1. *Nature communications*, 13(1), 7579.

Rodrigues D, et al. (2022) Chronic stress causes striatal disinhibition mediated by SOM-interneurons in male mice. *Nature communications*, 13(1), 7355.

Bellusci L, et al. (2022) Interactions between Brainstem Neurons That Regulate the Motility to the Stomach. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(26), 5212.

Yu Q, et al. (2022) Visual cortex encodes timing information in humans and mice. *Neuron*, 110(24), 4194.

Grimes WN, et al. (2022) Dendro-somatic synaptic inputs to ganglion cells contradict receptive field and connectivity conventions in the mammalian retina. *Current biology : CB*, 32(2), 315.