Resource Summary Report

Generated by T1D on Sep 21, 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: 20260919T054909+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 46 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Parkes I, et al. (2026) Precision cutaneous stimulation in freely moving mice. eLife, 14.

Lehnert J, et al. (2026) Rapid dynamics of dorsal raphe serotonin neurons regulate the strength of visual attention. Nature communications, 17(1).

Oostland M, et al. (2026) Cerebellar acceleration of learning in an evidence-accumulation task. Cell reports, 45(4), 117262.

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.

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

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.

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

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

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.

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

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.

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

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

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.