Resource Summary Report

Generated by kravitz2 on Sep 18, 2026

B6;129S-Gt(ROSA)26Sor$^{tm35.1(CAG-aop3/GFP)Hze}$/J

RRID:IMSR_JAX:012735
Type: Organism

Proper Citation

RRID:IMSR_JAX:012735

Organism Information

URL: https://www.jax.org/strain/012735

Proper Citation: RRID:IMSR_JAX:012735

Description: Mus musculus with name B6;129S-Gt(ROSA)26Sor$^{tm35.1(CAG-aop3/GFP)Hze}$/J from IMSR.

Species: Mus musculus

Synonyms: B6;129S-Gt(ROSA)26Sor/J

Notes: gene symbol note: gene trap ROSA 26; Philippe Soriano||Archaerhodopsin; mutant stock: Gt(ROSA)26Sor||AOP3

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

Genomic Alteration: targeted mutation 35.1; Hongkui Zeng

Catalog Number: JAX:012735

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129S-Gt(ROSA)26Sor$^{tm35.1(CAG-aop3/GFP)Hze}$/J

Record Creation Time: 20250513T053722+0000

Record Last Update: 20260912T060507+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Gt(ROSA)26Sor $^{tm35.1(CAG-aop3/GFP)Hze}$/J.

No alerts have been found for B6;129S-Gt(ROSA)26Sor$^{tm35.1(CAG-aop3/GFP)Hze}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 23 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

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

Valerio P, et al. (2024) Sequential maturation of stimulus-specific adaptation in the mouse lemniscal auditory system. Science advances, 10(1), eadi7624.

Gadomski S, et al. (2022) A cholinergic neuroskeletal interface promotes bone formation during postnatal growth and exercise. Cell stem cell, 29(4), 528.

Bell KA, et al. (2021) The Entorhinal Cortical Alvear Pathway Differentially Excites Pyramidal Cells and Interneuron Subtypes in Hippocampal CA1. Cerebral cortex (New York, N.Y. : 1991), 31(5), 2382.

Besnard A, et al. (2020) Distinct Dorsal and Ventral Hippocampal CA3 Outputs Govern Contextual Fear Discrimination. Cell reports, 30(7), 2360.

Wang L, et al. (2020) Different dendritic domains of the GnRH neuron underlie the pulse and surge modes of GnRH secretion in female mice. eLife, 9.

Blivis D, et al. (2019) Dye-coupling between neonatal spinal motoneurons and interneurons revealed by prolonged back-filling of a ventral root with a low molecular weight tracer in the mouse. Scientific reports, 9(1), 3201.

Falgairolle M, et al. (2019) V1 interneurons regulate the pattern and frequency of locomotor-like activity in the neonatal mouse spinal cord. PLoS biology, 17(9), e3000447.

Boyle KA, et al. (2019) Defining a Spinal Microcircuit that Gates Myelinated Afferent Input: Implications for Tactile Allodynia. Cell reports, 28(2), 526.

Arkhipov A, et al. (2018) Visual physiology of the layer 4 cortical circuit in silico. PLoS computational biology, 14(11), e1006535.

Takesian AE, et al. (2018) Inhibitory circuit gating of auditory critical-period plasticity. Nature neuroscience, 21(2), 218.

Garcia-Garcia AL, et al. (2018) Serotonin inputs to the dorsal BNST modulate anxiety in a 5-HT1A receptor-dependent manner. Molecular psychiatry, 23(10), 1990.

Moehring F, et al. (2018) Keratinocytes mediate innocuous and noxious touch via ATP-P2X4 signaling. eLife, 7.

Moore AK, et al. (2018) Rapid Rebalancing of Excitation and Inhibition by Cortical Circuitry. Neuron, 97(6), 1341.

Cowie AM, et al. (2018) Optogenetic Inhibition of CGRP?? Sensory Neurons Reveals Their Distinct Roles in Neuropathic and Incisional Pain. The Journal of neuroscience : the official journal of the Society for Neuroscience, 38(25), 5807.

Teixeira CM, et al. (2018) Hippocampal 5-HT Input Regulates Memory Formation and Schaffer Collateral Excitation. Neuron, 98(5), 992.

Falgairolle M, et al. (2017) Motoneurons regulate the central pattern generator during drug-induced locomotor-like activity in the neonatal mouse. eLife, 6.

O'Hare JK, et al. (2017) Striatal fast-spiking interneurons selectively modulate circuit output and are required for habitual behavior. eLife, 6.

Senzai Y, et al. (2017) Physiological Properties and Behavioral Correlates of Hippocampal Granule Cells and Mossy Cells. Neuron, 93(3), 691.

Hedrick T, et al. (2016) Characterization of Channelrhodopsin and Archaerhodopsin in Cholinergic Neurons of Cre-Lox Transgenic Mice. PloS one, 11(5), e0156596.