

# Resource Summary Report

Generated by T1D on Sep 20, 2026

**B6;129S-Gt(ROSA)26Sor<sup>tm35.1(CAG-aop3/GFP)Hze/J</sup>**

RRID:IMSR\_JAX:012735

Type: Organism

## Proper Citation

RRID:IMSR\_JAX:012735

## Organism Information

**URL:** <https://www.jax.org/strain/012735>

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**Description:** Mus musculus with name B6;129S-Gt(ROSA)26Sor<sup>tm35.1(CAG-aop3/GFP)Hze/J</sup> from IMSR.

**Species:** Mus musculus

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

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

**Affected Gene:** [Archaerhodopsin]gene trap ROSA 26; Philippe Soriano

**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<sup>tm35.1(CAG-aop3/GFP)Hze/J</sup>

**Record Creation Time:** 20250513T053722+0000

**Record Last Update:** 20260919T054910+0000

## Ratings and Alerts

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

No alerts have been found for B6;129S-Gt(ROSA)26Sor<sup>tm35.1(CAG-aop3/GFP)Hze/J</sup>.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 23 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [T1D](#).

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.

Falgaïrolle 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 Archaelhodopsin in Cholinergic Neurons of Cre-Lox Transgenic Mice. *PloS one*, 11(5), e0156596.