

Resource Summary Report

Generated by [kravitz2](#) on Aug 1, 2026

B6;129S-Gt(ROSA)26Sor^{tm39(CAG-hop/EYFP)Hze/J}

RRID:IMSR_JAX:014539

Type: Organism

Proper Citation

RRID:IMSR_JAX:014539

Organism Information

URL: <https://www.jax.org/strain/014539>

Proper Citation: RRID:IMSR_JAX:014539

Description: Mus musculus with name B6;129S-Gt(ROSA)26Sor^{tm39(CAG-hop/EYFP)Hze/J} from IMSR.

Species: Mus musculus

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

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

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

Genomic Alteration: targeted mutation 39; Hongkui Zeng

Catalog Number: JAX:014539

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S-Gt(ROSA)26Sor^{tm39(CAG-hop/EYFP)Hze/J}

Record Creation Time: 20250513T053727+0000

Record Last Update: 20260801T050432+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Gt(ROSA)26Sor^{tm39}(CAG-hop/EYFP)Hze/J.

No alerts have been found for B6;129S-Gt(ROSA)26Sor^{tm39}(CAG-hop/EYFP)Hze/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

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

Srinivasan S, et al. (2025) Transient reactivation of small ensembles of adult-born neurons during REM sleep supports memory consolidation in mice. *Nature communications*, 16(1), 7210.

Zhang H, et al. (2025) Widespread innervation of motoneurons by spinal V3 neurons globally amplifies locomotor output in mice. *Cell reports*, 44(1), 115212.

Strain MM, et al. (2024) Dorsal motor vagal neurons can elicit bradycardia and reduce anxiety-like behavior. *iScience*, 27(3), 109137.

Dalal T, et al. (2022) Upstream γ -synchronization enhances odor processing in downstream neurons. *Cell reports*, 39(3), 110693.

Laverne G, et al. (2022) Cholinergic interneuron inhibition potentiates corticostriatal transmission in direct medium spiny neurons and rescues motor learning in parkinsonism. *Cell reports*, 40(1), 111034.

Ivanova E, et al. (2021) Retina-specific targeting of pericytes reveals structural diversity and enables control of capillary blood flow. *The Journal of comparative neurology*, 529(6), 1121.

Do J, et al. (2020) A Leptin-Mediated Neural Mechanism Linking Breathing to Metabolism. *Cell reports*, 33(6), 108358.

Manzano Nieves G, et al. (2020) Early life adversity decreases pre-adolescent fear expression by accelerating amygdala PV cell development. *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.

- Wang X, et al. (2019) Medium spiny neurons of the anterior dorsomedial striatum mediate reversal learning in a cell-type-dependent manner. *Brain structure & function*, 224(1), 419.
- Smith KM, et al. (2019) Calretinin positive neurons form an excitatory amplifier network in the spinal cord dorsal horn. *eLife*, 8.
- Delcasso S, et al. (2018) HOPE: Hybrid-Drive Combining Optogenetics, Pharmacology and Electrophysiology. *Frontiers in neural circuits*, 12, 41.
- van Dijk MT, et al. (2018) On How the Dentate Gyrus Contributes to Memory Discrimination. *Neuron*, 98(4), 832.
- Josset N, et al. (2018) Distinct Contributions of Mesencephalic Locomotor Region Nuclei to Locomotor Control in the Freely Behaving Mouse. *Current biology : CB*, 28(6), 884.
- Falgairolle M, et al. (2017) Motoneurons regulate the central pattern generator during drug-induced locomotor-like activity in the neonatal mouse. *eLife*, 6.
- Tscherter A, et al. (2016) Embryonic Cell Grafts in a Culture Model of Spinal Cord Lesion: Neuronal Relay Formation Is Essential for Functional Regeneration. *Frontiers in cellular neuroscience*, 10, 220.
- Johnston NR, et al. (2016) Beta Cell Hubs Dictate Pancreatic Islet Responses to Glucose. *Cell metabolism*, 24(3), 389.
- Jones JR, et al. (2015) Manipulating circadian clock neuron firing rate resets molecular circadian rhythms and behavior. *Nature neuroscience*, 18(3), 373.
- Baumbauer KM, et al. (2015) Keratinocytes can modulate and directly initiate nociceptive responses. *eLife*, 4.