

Resource Summary Report

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

B6.129-Gt(ROSA)26Sor^{tm1}(CAG-CHRM4*.-mCitrine)Ute/J

RRID:IMSR_JAX:026219

Type: Organism

Proper Citation

RRID:IMSR_JAX:026219

Organism Information

URL: <https://www.jax.org/strain/026219>

Proper Citation: RRID:IMSR_JAX:026219

Description: Mus musculus with name B6.129-Gt(ROSA)26Sor^{tm1}(CAG-CHRM4*.-mCitrine)Ute/J from IMSR.

Species: Mus musculus

Synonyms: B6N.129-Gt(ROSA)26Sor/J

Notes: gene symbol note: |gene trap ROSA 26; Philippe Soriano|cholinergic receptor muscarinic 4; mutant strain|congenic strain: |Gt(ROSA)26Sor|CHRM4

Affected Gene: |gene trap ROSA 26; Philippe Soriano|cholinergic receptor muscarinic 4

Genomic Alteration: targeted mutation 1; Ute Hochgeschwender

Catalog Number: JAX:026219

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129-Gt(ROSA)26Sor^{tm1}(CAG-CHRM4*.-mCitrine)Ute/J

Record Creation Time: 20250513T053756+0000

Record Last Update: 20260801T050507+0000

Ratings and Alerts

- Used for humanized mouse by the Human Islet Research Network community.
Contact(s): [Heiko Lickert](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for B6.129-Gt(ROSA)26Sor^{tm1}(CAG-CHRM4*.mCitrine)Ute/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Abd El-Aziz TM, et al. (2025) Gi-DREADD activation decreases Epithelial Na⁺ channel activity in renal principal cells. *Physiological reports*, 13(12), e70433.

Jaschke NP, et al. (2025) Gut-to-brain signaling restricts dietary protein intake during recovery from catabolic states. *Cell*, 188(26), 7481.

Huang JY, et al. (2025) From initial formation to developmental refinement: GABAergic inputs shape neuronal subnetworks in the primary somatosensory cortex. *iScience*, 28(3), 112104.

Millett CJ, et al. (2025) In vivo transcriptomic, functional, circuit-based, and translational analyses of enteric neurons. *Cell*, 188(26), 7547.

Vargas-Ortiz J, et al. (2025) Translaminar synchronous neuronal activity is required for columnar synaptic strengthening in the mouse neocortex. *Nature communications*, 16(1), 1296.

Ko SY, et al. (2025) Systems consolidation reorganizes hippocampal engram circuitry. *Nature*, 643(8072), 735.

Lei B, et al. (2025) Reconstructing a new hippocampal engram for systems reconsolidation and remote memory updating. *Neuron*, 113(3), 471.

Debnath S, et al. (2025) Enteric Neuronal Substrates Underlying Spontaneous and Evoked Neurogenic Contractions in Mouse Colon. *Cellular and molecular gastroenterology and hepatology*, 19(5), 101462.

Chen S, et al. (2024) Integration and competition between space and time in the hippocampus. *Neuron*, 112(21), 3651.

Billipp TE, et al. (2024) Tuft cell-derived acetylcholine promotes epithelial chloride secretion and intestinal helminth clearance. *Immunity*, 57(6), 1243.

Ren W, et al. (2024) Sympathetic nerve-enteroendocrine L cell communication modulates GLP-1 release, brain glucose utilization, and cognitive function. *Neuron*, 112(6), 972.

Mani A, et al. (2023) A circuit suppressing retinal drive to the optokinetic system during fast image motion. *Nature communications*, 14(1), 5142.

Angelakos CC, et al. (2023) A cluster of neuropeptide S neurons regulates breathing and arousal. *Current biology : CB*, 33(24), 5439.

Liu T, et al. (2023) Cannabinoid receptor 2 signal promotes type 2 immunity in the lung. *Cell insight*, 2(5), 100124.

Broersen R, et al. (2023) Synaptic mechanisms for associative learning in the cerebellar nuclei. *Nature communications*, 14(1), 7459.

Musardo S, et al. (2022) Oxytocin neurons mediate the effect of social isolation via the VTA circuits. *eLife*, 11.

Sun Y, et al. (2022) Dysmyelination by Oligodendrocyte-Specific Ablation of *Ninj2* Contributes to Depressive-Like Behaviors. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 9(3), e2103065.

Hilgen G, et al. (2022) A novel approach to the functional classification of retinal ganglion cells. *Open biology*, 12(3), 210367.

Chalif JI, et al. (2022) Control of mammalian locomotion by ventral spinocerebellar tract neurons. *Cell*, 185(2), 328.

Zheng Q, et al. (2022) Synchronized cluster firing, a distinct form of sensory neuron activation, drives spontaneous pain. *Neuron*, 110(2), 209.