

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 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: 20260808T050957+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 42 mentions in open access literature.

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

Li C, et al. (2026) VIPR1 acts as an enteric neural checkpoint that suppresses intestinal stem cell-driven epithelial regeneration and exacerbates colitis. *Cell stem cell*, 33(3), 502.

Bessières B, et al. (2026) Infant learning forms lasting memory schemas that influence adult behavior. *Neuron*.

McKnight AD, et al. (2026) Attenuated hypothalamic response to fructose via a dedicated gut-brain pathway. *Neuron*.

Hayes NW, et al. (2026) IL-1 γ engages distinct peripheral sensory circuits to suppress feeding across time. *bioRxiv : the preprint server for biology*.

Zhu Z, et al. (2026) A neurovascular survival axis for adult sympathetic neurons. *Neuron*.

Zhang P, et al. (2026) Sympathetic-epithelial crosstalk governs tissue-resident memory T cell immunosurveillance in the skin. *Cell*, 189(5), 1323.

Castillon CCM, et al. (2026) Subregional activity in the dentate gyrus is amplified during elevated cognitive demands. *eLife*, 15.

Shibuya R, et al. (2026) Activation of the auricular vagus nerve reflex suppresses airway inflammation. *Immunity*.

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.

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.

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.

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

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.

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.

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