

Resource Summary Report

Generated by T1D on Sep 20, 2026

B6;129S-Gt(ROSA)26Sor^{tm38(CAG-GCaMP3)Hze/J}

RRID:IMSR_JAX:014538

Type: Organism

Proper Citation

RRID:IMSR_JAX:014538

Organism Information

URL: <https://www.jax.org/strain/014538>

Proper Citation: RRID:IMSR_JAX:014538

Description: Mus musculus with name B6;129S-Gt(ROSA)26Sor^{tm38(CAG-GCaMP3)Hze/J} from IMSR.

Species: Mus musculus

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

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

Affected Gene: |gene trap ROSA 26; Philippe Soriano

Genomic Alteration: targeted mutation 38; Hongkui Zeng

Catalog Number: JAX:014538

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129S-Gt(ROSA)26Sor^{tm38(CAG-GCaMP3)Hze/J}

Record Creation Time: 20250513T053727+0000

Record Last Update: 20260919T054915+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Gt(ROSA)26Sor^{tm38}(CAG-GCaMP3)Hze/J.

No alerts have been found for B6;129S-Gt(ROSA)26Sor^{tm38}(CAG-GCaMP3)Hze/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Choi SJ, et al. (2026) ?-Synuclein expression is required for somatodendritic dopamine release and immediate early gene induction. *Science advances*, 12(5), eady6978.

Soma S, et al. (2025) Channel synapse mediates neurotransmission of airway protective chemoreflexes. *Cell*, 188(10), 2687.

Visa M, et al. (2024) Sex-dependent intra-islet structural rearrangements affecting alpha-to-beta cell interactions lead to adaptive enhancements of Ca²⁺ dynamics in prediabetic beta cells. *Diabetologia*, 67(8), 1663.

Liu L, et al. (2024) 14-3-3 binding motif phosphorylation disrupts Hdac4-organized condensates to stimulate cardiac reprogramming. *Cell reports*, 43(4), 114054.

Fujimoto S, et al. (2023) Activity-dependent local protection and lateral inhibition control synaptic competition in developing mitral cells in mice. *Developmental cell*, 58(14), 1221.

Grainger N, et al. (2022) Propagation of Pacemaker Activity and Peristaltic Contractions in the Mouse Renal Pelvis Rely on Ca²⁺-activated Cl⁻ Channels and T-Type Ca²⁺ Channels. *Function (Oxford, England)*, 3(6), zqac041.

Chae H, et al. (2022) Long-range functional loops in the mouse olfactory system and their roles in computing odor identity. *Neuron*, 110(23), 3970.

Poon SSB, et al. (2022) Neonatal antibiotics have long term sex-dependent effects on the enteric nervous system. *The Journal of physiology*, 600(19), 4303.

Ivashkina OI, et al. (2021) Imaging of C-fos Activity in Neurons of the Mouse Parietal Association Cortex during Acquisition and Retrieval of Associative Fear Memory. *International journal of molecular sciences*, 22(15).

Kosmidis S, et al. (2021) A fast, aqueous, reversible three-day tissue clearing method for adult and embryonic mouse brain and whole body. *Cell reports methods*, 1(7), 100090.

Guagliardo NA, et al. (2020) Angiotensin II induces coordinated calcium bursts in aldosterone-producing adrenal rosettes. *Nature communications*, 11(1), 1679.

Schröder S, et al. (2020) Arousal Modulates Retinal Output. *Neuron*, 107(3), 487.

Mahú I, et al. (2020) Brain-Sparing Sympathofacilitators Mitigate Obesity without Adverse Cardiovascular Effects. *Cell metabolism*, 31(6), 1120.

Corkrum M, et al. (2020) Dopamine-Evoked Synaptic Regulation in the Nucleus Accumbens Requires Astrocyte Activity. *Neuron*, 105(6), 1036.

Prescott SL, et al. (2020) An Airway Protection Program Revealed by Sweeping Genetic Control of Vagal Afferents. *Cell*, 181(3), 574.

Sato T, et al. (2020) Direct Comparison of Odor Responses of Homologous Glomeruli in the Medial and Lateral Maps of the Mouse Olfactory Bulb. *eNeuro*, 7(2).

Ast J, et al. (2020) Super-resolution microscopy compatible fluorescent probes reveal endogenous glucagon-like peptide-1 receptor distribution and dynamics. *Nature communications*, 11(1), 467.

Nomura K, et al. (2020) All-Electrical Ca²⁺-Independent Signal Transduction Mediates Attractive Sodium Taste in Taste Buds. *Neuron*, 106(5), 816.

van Krieken PP, et al. (2019) Translational assessment of a genetic engineering methodology to improve islet function for transplantation. *EBioMedicine*, 45, 529.

Arrojo E Drigo R, et al. (2019) Structural basis for delta cell paracrine regulation in pancreatic islets. *Nature communications*, 10(1), 3700.