

Resource Summary Report

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B6.Cg-Gt(ROSA)26Sor^{tm40.1}(CAG-aop3/EGFP)Hze/J

RRID:IMSR_JAX:021188

Type: Organism

Proper Citation

RRID:IMSR_JAX:021188

Organism Information

URL: <https://www.jax.org/strain/021188>

Proper Citation: RRID:IMSR_JAX:021188

Description: Mus musculus with name B6.Cg-Gt(ROSA)26Sor^{tm40.1}(CAG-aop3/EGFP)Hze/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Gt(ROSA)26Sor/J

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

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

Genomic Alteration: targeted mutation 40.1; Hongkui Zeng

Catalog Number: JAX:021188

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Gt(ROSA)26Sor^{tm40.1}(CAG-aop3/EGFP)Hze/J

Record Creation Time: 20250513T053742+0000

Record Last Update: 20260725T044450+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Gt(ROSA)26Sor^{tm40.1}(CAG-aop3/EGFP)Hze/J.

No alerts have been found for B6.Cg-Gt(ROSA)26Sor^{tm40.1}(CAG-aop3/EGFP)Hze/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Caccavano AP, et al. (2025) Divergent opioid-mediated suppression of inhibition between hippocampus and neocortex across species and development. *Neuron*, 113(11), 1805.

Kim JH, et al. (2025) Discrete interneuron subsets participate in GluN1/GluN3A excitatory glycine receptor (eGlyR)-mediated regulation of hippocampal network activity throughout development and evolution. *bioRxiv : the preprint server for biology*.

Tamboli S, et al. (2024) Mouse hippocampal CA1 VIP interneurons detect novelty in the environment and support recognition memory. *Cell reports*, 43(4), 114115.

Caccavano AP, et al. (2024) Divergent opioid-mediated suppression of inhibition between hippocampus and neocortex across species and development. *bioRxiv : the preprint server for biology*.

Shin D, et al. (2023) Narrowband gamma oscillations propagate and synchronize throughout the mouse thalamocortical visual system. *Neuron*, 111(7), 1076.

Tong L, et al. (2023) Single cell in vivo optogenetic stimulation by two-photon excitation fluorescence transfer. *iScience*, 26(10), 107857.

Bellusci L, et al. (2022) Interactions between Brainstem Neurons That Regulate the Motility to the Stomach. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(26), 5212.

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

Hay YA, et al. (2021) Thalamus mediates neocortical Down state transition via GABAB-receptor-targeting interneurons. *Neuron*, 109(17), 2682.

Hormigo S, et al. (2021) Bidirectional Control of Orienting Behavior by the Substantia Nigra Pars Reticulata: Distinct Significance of Head and Whisker Movements. *eNeuro*, 8(5).

Clawson BC, et al. (2021) Causal role for sleep-dependent reactivation of learning-activated sensory ensembles for fear memory consolidation. *Nature communications*, 12(1), 1200.

Najjar SA, et al. (2021) Optogenetic inhibition of the colon epithelium reduces hypersensitivity in a mouse model of inflammatory bowel disease. *Pain*, 162(4), 1126.

Higgs MH, et al. (2021) Periodic unitary synaptic currents in the mouse globus pallidus during spontaneous firing in slices. *Journal of neurophysiology*, 125(4), 1482.

Anstötz M, et al. (2021) Impaired KCC2 Function Triggers Interictal-Like Activity Driven by Parvalbumin-Expressing Interneurons in the Isolated Subiculum In Vitro. *Cerebral cortex* (New York, N.Y. : 1991), 31(10), 4681.

Wang F, et al. (2021) OFF-transient alpha RGCs mediate looming triggered innate defensive response. *Current biology : CB*, 31(11), 2263.

Williams B, et al. (2021) Spatial modulation of dark versus bright stimulus responses in the mouse visual system. *Current biology : CB*, 31(18), 4172.

Beed P, et al. (2020) Layer 3 Pyramidal Cells in the Medial Entorhinal Cortex Orchestrate Up-Down States and Entrain the Deep Layers Differentially. *Cell reports*, 33(10), 108470.

Gretenkord S, et al. (2019) Coordinated electrical activity in the olfactory bulb gates the oscillatory entrainment of entorhinal networks in neonatal mice. *PLoS biology*, 17(1), e2006994.

Daigle TL, et al. (2018) A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. *Cell*, 174(2), 465.

Tan Z, et al. (2018) Dynamic ErbB4 Activity in Hippocampal-Prefrontal Synchrony and Top-Down Attention in Rodents. *Neuron*, 98(2), 380.