

Resource Summary Report

Generated by [RRID](#) on Jul 31, 2026

B6.Cg-Igs7^{tm162.1(tetO-GCaMP6s.CAG-tTA2)Hze/J}

RRID:IMSR_JAX:031562

Type: Organism

Proper Citation

RRID:IMSR_JAX:031562

Organism Information

URL: <https://www.jax.org/strain/031562>

Proper Citation: RRID:IMSR_JAX:031562

Description: Mus musculus with name B6.Cg-Igs7^{tm162.1(tetO-GCaMP6s.CAG-tTA2)Hze/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: Genetically encoded calcium indicator|tet operator||intergenic site 7|tetracycline-controlled transactivator; mutant strain|congenic strain: GCaMP|tetO||Igs7|tTA

Affected Gene: Genetically encoded calcium indicator|tet operator||intergenic site 7|tetracycline-controlled transactivator

Genomic Alteration: targeted mutation 162.1; Hongkui Zeng

Catalog Number: JAX:031562

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Igs7^{tm162.1(tetO-GCaMP6s.CAG-tTA2)Hze/J}

Record Creation Time: 20250513T053823+0000

Record Last Update: 20260725T044523+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Igs7^{tm162.1}(tetO-GCaMP6s.CAG-tTA2)Hze/J.

No alerts have been found for B6.Cg-Igs7^{tm162.1}(tetO-GCaMP6s.CAG-tTA2)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](#) .

Yeo SH, et al. (2025) Shifting GnRH Neuron Ensembles Underlie Successive Preovulatory Luteinizing Hormone Surges. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(3).

Goto T, et al. (2025) Dietary availability acutely influences puberty onset via a hypothalamic neural circuit. Neuron, 113(7), 1036.

Tasaka GI, et al. (2025) Orbitofrontal cortex influences dopamine dynamics associated with alloparental behavioral acquisition in female mice. Science advances, 11(27), eadr4620.

Li Q, et al. (2025) Stromal Cell-Mast Cell Communication Orchestrates Anti-Viral Immunity in the Meninges. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e14842.

Shymkiv Y, et al. (2025) Slow cortical dynamics generate context processing and novelty detection. Neuron, 113(6), 847.

Fei Y, et al. (2025) Coordination of distinct sources of excitatory inputs enhances motion selectivity in the mouse visual thalamus. Neuron.

Wolcott NS, et al. (2025) The estrous cycle modulates hippocampal spine dynamics, dendritic processing, and spatial coding. Neuron, 113(14), 2297.

Manley J, et al. (2024) Simultaneous, cortex-wide dynamics of up to 1 million neurons reveal unbounded scaling of dimensionality with neuron number. Neuron.

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.

de Gee JW, et al. (2024) Strategic stabilization of arousal boosts sustained attention. Current biology : CB, 34(18), 4114.

Bastos G, et al. (2023) Top-down input modulates visual context processing through an interneuron-specific circuit. *Cell reports*, 42(9), 113133.

Van Derveer AB, et al. (2023) Robust multisensory deviance detection in the mouse parietal associative area. *Current biology : CB*, 33(18), 3969.

Ryan L, et al. (2023) Cortical circuitry mediating interareal touch signal amplification. *Cell reports*, 42(12), 113532.

Collins L, et al. (2023) Cholinergic and noradrenergic axonal activity contains a behavioral-state signal that is coordinated across the dorsal cortex. *eLife*, 12.

Kahan A, et al. (2023) Immediate responses to ambient light in vivo reveal distinct subpopulations of suprachiasmatic VIP neurons. *iScience*, 26(10), 107865.

Han SY, et al. (2023) Mechanism of kisspeptin neuron synchronization for pulsatile hormone secretion in male mice. *Cell reports*, 42(1), 111914.

Veit J, et al. (2023) Cortical VIP neurons locally control the gain but globally control the coherence of gamma band rhythms. *Neuron*, 111(3), 405.

Ramamurthy DL, et al. (2023) VIP interneurons in sensory cortex encode sensory and action signals but not direct reward signals. *Current biology : CB*, 33(16), 3398.

Wang HC, et al. (2022) Tuning instability of non-columnar neurons in the salt-and-pepper whisker map in somatosensory cortex. *Nature communications*, 13(1), 6611.

Kahan A, et al. (2021) Light-guided sectioning for precise in situ localization and tissue interface analysis for brain-implanted optical fibers and GRIN lenses. *Cell reports*, 36(13), 109744.