

Resource Summary Report

Generated by [NIF](#) on Aug 28, 2026

B6.Cg-Snap25^{tm3.1Hze}/J

RRID:IMSR_JAX:025111

Type: Organism

Proper Citation

RRID:IMSR_JAX:025111

Organism Information

URL: <https://www.jax.org/strain/025111>

Proper Citation: RRID:IMSR_JAX:025111

Description: Mus musculus with name B6.Cg-Snap25^{tm3.1Hze}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: synaptosomal-associated protein 25|; mutant strain|congenic strain: Snap25|

Affected Gene: synaptosomal-associated protein 25|

Genomic Alteration: targeted mutation 3.1; Hongkui Zeng

Catalog Number: JAX:025111

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.Cg-Snap25^{tm3.1Hze}/J

Record Creation Time: 20250513T053753+0000

Record Last Update: 20260815T050704+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Snap25^{tm3.1Hze}/J.

No alerts have been found for B6.Cg-Snap25^{tm3.1Hze}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

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

Schappe MS, et al. (2024) A vagal reflex evoked by airway closure. *Nature*, 627(8005), 830.

McDougle M, et al. (2024) Separate gut-brain circuits for fat and sugar reinforcement combine to promote overeating. *Cell metabolism*, 36(2), 393.

Kersbergen CJ, et al. (2023) Preservation of developmental spontaneous activity enables early auditory system maturation in deaf mice. *PLoS biology*, 21(6), e3002160.

Wei XP, et al. (2022) A novel reticular node in the brainstem synchronizes neonatal mouse crying with breathing. *Neuron*, 110(4), 644.

Kersbergen CJ, et al. (2022) Developmental spontaneous activity promotes formation of sensory domains, frequency tuning and proper gain in central auditory circuits. *Cell reports*, 41(7), 111649.

Wang Y, et al. (2021) Efferent feedback controls bilateral auditory spontaneous activity. *Nature communications*, 12(1), 2449.

Kellner V, et al. (2021) Dual metabotropic glutamate receptor signaling enables coordination of astrocyte and neuron activity in developing sensory domains. *Neuron*, 109(16), 2545.

Shore AN, et al. (2020) Reduced GABAergic Neuron Excitability, Altered Synaptic Connectivity, and Seizures in a KCNT1 Gain-of-Function Mouse Model of Childhood Epilepsy. *Cell reports*, 33(4), 108303.

Babola TA, et al. (2020) Purinergic signaling in cochlear supporting cells reduces hair cell excitability by increasing the extracellular space. *eLife*, 9.

Babola TA, et al. (2018) Homeostatic Control of Spontaneous Activity in the Developing Auditory System. *Neuron*, 99(3), 511.

Steinmetz NA, et al. (2017) Aberrant Cortical Activity in Multiple GCaMP6-Expressing Transgenic Mouse Lines. *eNeuro*, 4(5).