

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://fdi-lab.sci-crunch.org) on May 17, 2025

STOCK Slc32a1^{tm2(cre)Lowl/J}

RRID:IMSR_JAX:016962

Type: Organism

Proper Citation

RRID:IMSR_JAX:016962

Organism Information

URL: <https://www.jax.org/strain/016962>

Proper Citation: RRID:IMSR_JAX:016962

Description: Mus musculus with name STOCK Slc32a1^{tm2(cre)Lowl/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: solute carrier family 32 (GABA vesicular transporter); member 1|; mutant stock: Slc32a1|

Affected Gene: solute carrier family 32 (GABA vesicular transporter); member 1|

Genomic Alteration: targeted mutation 2; Bradford B Lowell

Catalog Number: JAX:016962

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Slc32a1^{tm2(cre)Lowl/J}

Record Creation Time: 20250513T053731+0000

Record Last Update: 20250517T092715+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Slc32a1^{tm2(cre)Lowl/J}.

No alerts have been found for STOCK Slc32a1^{tm2(cre)Lowl/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 200 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Shao L, et al. (2024) Whole-brain inputs and outputs of Phox2b and GABAergic neurons in the nucleus tractus solitarii. *Frontiers in neuroscience*, 18, 1427384.

Gu J, et al. (2024) Central amygdala-to-pre-Bötzinger complex neurotransmission is direct and inhibitory. *The European journal of neuroscience*, 60(11), 6799.

Faget L, et al. (2024) Ventral pallidum GABA and glutamate neurons drive approach and avoidance through distinct modulation of VTA cell types. *Nature communications*, 15(1), 4233.

Liu Q, et al. (2024) An amygdalar oscillator coordinates cellular and behavioral rhythms. *Neuron*.

Liu M, et al. (2024) Parvalbumin and Somatostatin: Biomarkers for Two Parallel Tectothalamic Pathways in the Auditory Midbrain. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(10).

Kashiwagi M, et al. (2024) A pontine-medullary loop crucial for REM sleep and its deficit in Parkinson's disease. *Cell*, 187(22), 6272.

Gao JH, et al. (2024) Divergent input patterns to the central lateral amygdala play a duet in fear memory formation. *iScience*, 27(10), 110886.

Tokizane K, et al. (2024) DMHPpp1r17 neurons regulate aging and lifespan in mice through hypothalamic-adipose inter-tissue communication. *Cell metabolism*, 36(2), 377.

Martinez de Morentin PB, et al. (2024) A brainstem to hypothalamic arcuate nucleus GABAergic circuit drives feeding. *Current biology : CB*.

Perez CI, et al. (2024) Tesofensine, a novel antiobesity drug, silences GABAergic hypothalamic neurons. *PloS one*, 19(4), e0300544.

Ramirez-Plascencia OD, et al. (2024) A hypothalamic circuit for circadian regulation of corticosterone secretion. *Research square*.

Miranda NC, et al. (2024) Sleep-related respiratory disruptions and laterodorsal tegmental nucleus in a mouse model of Parkinson's disease. *iScience*, 27(11), 111251.

Rankin G, et al. (2024) Nerve injury disrupts temporal processing in the spinal cord dorsal horn through alterations in PV+ interneurons. *Cell reports*, 43(2), 113718.

Li CP, et al. (2024) Lhx2 promotes axon regeneration of adult retinal ganglion cells and rescues neurodegeneration in mouse models of glaucoma. *Cell reports. Medicine*, 5(5), 101554.

Cheng X, et al. (2024) Astrocytes modulate brain phosphate homeostasis via polarized distribution of phosphate uptake transporter PiT2 and exporter XPR1. *Neuron*, 112(18), 3126.

Ba W, et al. (2024) A REM-active basal ganglia circuit that regulates anxiety. *Current biology : CB*, 34(15), 3301.

Choi J, et al. (2024) ARNT2 controls prefrontal somatostatin interneurons mediating affective empathy. *Cell reports*, 43(9), 114659.

Lee YH, et al. (2023) Lateral hypothalamic leptin receptor neurons drive hunger-gated food-seeking and consummatory behaviours in male mice. *Nature communications*, 14(1), 1486.

Tong Q, et al. (2023) D1 receptor-expressing neurons in ventral tegmental area alleviate mouse anxiety-like behaviors via glutamatergic projection to lateral septum. *Molecular psychiatry*, 28(2), 625.

Hu Y, et al. (2023) Tfap2b acts in GABAergic neurons to control sleep in mice. *Scientific reports*, 13(1), 8026.