

Resource Summary Report

Generated by PRECISE-TBI on Jul 31, 2026

B6.FVB-Tg(Slc32a1-cre)2.1Hzo/FrkJ

RRID:IMSR_JAX:017535

Type: Organism

Proper Citation

RRID:IMSR_JAX:017535

Organism Information

URL: <https://www.jax.org/strain/017535>

Proper Citation: RRID:IMSR_JAX:017535

Description: Mus musculus with name B6.FVB-Tg(Slc32a1-cre)2.1Hzo/FrkJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: solute carrier family 32 (GABA vesicular transporter); member 1|transgene insertion 2.1; Huda Y Zoghbi|; mutant strain|congenic strain: Slc32a1|Tg(Slc32a1-cre)2.1Hzo|

Affected Gene: solute carrier family 32 (GABA vesicular transporter); member 1|transgene insertion 2.1; Huda Y Zoghbi|

Genomic Alteration: transgene insertion 2.1; Huda Y Zoghbi

Catalog Number: JAX:017535

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.FVB-Tg(Slc32a1-cre)2.1Hzo/FrkJ

Record Creation Time: 20250513T053732+0000

Record Last Update: 20260725T044441+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB-Tg(Slc32a1-cre)2.1Hzo/FrkJ.

No alerts have been found for B6.FVB-Tg(Slc32a1-cre)2.1Hzo/FrkJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Wang S, et al. (2025) Unsilenced inhibitory cortical ensemble gates remote memory retrieval. Cell reports, 44(10), 116360.

Lo H, et al. (2025) Feeding-induced olfactory cortex suppression reduces satiation. Neuron, 113(17), 2856.

Li YD, et al. (2024) Anterior cingulate cortex projections to the dorsal medial striatum underlie insomnia associated with chronic pain. Neuron.

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.

Cui X, et al. (2023) A putative loop connection between VTA dopamine neurons and nucleus accumbens encodes positive valence to compensate for hunger. Progress in neurobiology, 229, 102503.

Hu Z, et al. (2022) A visual circuit related to the periaqueductal gray area for the antinociceptive effects of bright light treatment. Neuron, 110(10), 1712.

Chever O, et al. (2021) Initiation of migraine-related cortical spreading depolarization by hyperactivity of GABAergic neurons and NaV1.1 channels. The Journal of clinical investigation, 131(21).

Lemaire L, et al. (2021) Modeling NaV1.1/SCN1A sodium channel mutations in a microcircuit with realistic ion concentration dynamics suggests differential GABAergic mechanisms leading to hyperexcitability in epilepsy and hemiplegic migraine. PLoS computational biology, 17(7), e1009239.

Comeras LB, et al. (2021) NPY Released From GABA Neurons of the Dentate Gyrus Specially Reduces Contextual Fear Without Affecting Cued or Trace Fear. Frontiers in synaptic neuroscience, 13, 635726.

Odoj K, et al. (2021) In vivo mechanisms of cortical network dysfunction induced by systemic inflammation. *Brain, behavior, and immunity*, 96, 113.

Fomin-Thunemann N, et al. (2020) Unique Functional Properties of Mature Adult-Born Neurons in the Mouse Olfactory Bulb. *Stem cell reports*, 15(6), 1333.

Luo L, et al. (2020) Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. *Neuron*, 106(1), 37.

Lavery LA, et al. (2020) Losing Dnmt3a dependent methylation in inhibitory neurons impairs neural function by a mechanism impacting Rett syndrome. *eLife*, 9.

Zhang Z, et al. (2019) Superior Colliculus GABAergic Neurons Are Essential for Acute Dark Induction of Wakefulness in Mice. *Current biology : CB*, 29(4), 637.

Yeh SY, et al. (2017) Respiratory Network Stability and Modulatory Response to Substance P Require Nalcn. *Neuron*, 94(2), 294.