

Resource Summary Report

Generated by [NIF](#) on Aug 12, 2026

B6;C3-Tg(Scnn1a-cre)3Aibs/J

RRID:IMSR_JAX:009613

Type: Organism

Proper Citation

RRID:IMSR_JAX:009613

Organism Information

URL: <https://www.jax.org/strain/009613>

Proper Citation: RRID:IMSR_JAX:009613

Description: Mus musculus with name B6;C3-Tg(Scnn1a-cre)3Aibs/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Tg(Scnn1a-cre)3Aibs/J

Notes: gene symbol note: |sodium channel; nonvoltage-gated 1 alpha|transgene insertion 3; Ed Lein; mutant stock: |Scnn1a|Tg(Scnn1a-cre)3Aibs

Affected Gene: |sodium channel; nonvoltage-gated 1 alpha|transgene insertion 3; Ed Lein

Genomic Alteration: transgene insertion 3; Ed Lein

Catalog Number: JAX:009613

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;C3-Tg(Scnn1a-cre)3Aibs/J

Record Creation Time: 20250513T053715+0000

Record Last Update: 20260808T050920+0000

Ratings and Alerts

No rating or validation information has been found for B6;C3-Tg(Scnn1a-cre)3Aibs/J.

No alerts have been found for B6;C3-Tg(Scnn1a-cre)3Aibs/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 87 mentions in open access literature.

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

Yu P, et al. (2026) Convergence of Cortical and Thalamic Origins of Free Behavior Modulation of Mouse Primary Visual Cortex. bioRxiv : the preprint server for biology.

Kline AM, et al. (2026) Large cranial windows distort sensory maps and degrade feature integration in higher-order cortex. bioRxiv : the preprint server for biology.

Ben-Shalom R, et al. (2026) Accurately fitting biophysical neuron models to experimental voltage data enabled by meta-learning. Research square.

Peelman K, et al. (2026) A standardized and reproducible behavioral framework to elicit multiple aspects of visual spatial attention in mice. Cell reports methods, 101514.

Bhatla N, et al. (2026) Acute requirement for the hippocampus in putatively conscious vision revealed by a mouse model of blindsight. Current biology : CB, 36(8), 2043.

Christian JA, et al. (2026) Association learning drives synaptic plasticity at feedforward synapses in somatosensory cortex. Cerebral cortex (New York, N.Y. : 1991), 36(6).

Bissen D, et al. (2026) Ethological learning during the critical period resets synaptic setpoints in mouse binocular visual cortex. Neuron.

Gao L, et al. (2026) Integrative analysis of single-neuron projectomes links connectome, transcriptome, and function in the mouse cortex. Neuron, 114(1), 86.

Goltstein PM, et al. (2025) A column-like organization for ocular dominance in mouse visual cortex. Nature communications, 16(1), 1926.

Palchadhuri S, et al. (2025) A posterior insula to lateral amygdala pathway transmits US-offset information with a limited role in fear learning. Cell reports, 44(2), 115320.

Wang H, et al. (2024) Parallel pathways carrying direction-and orientation-selective retinal signals to layer 4 of the mouse visual cortex. Cell reports, 43(3), 113830.

Heindorf M, et al. (2024) Antipsychotic drugs selectively decorrelate long-range interactions in deep cortical layers. eLife, 12.

Putman JN, et al. (2024) Pre- and Postsynaptic MEF2C Promotes Experience-Dependent, Input-Specific Development of Cortical Layer 4 to Layer 2/3 Excitatory Synapses and Regulates Activity-Dependent Expression of Synaptic Cell Adhesion Molecules. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(45).

Patiño M, et al. (2024) Transcriptomic cell-type specificity of local cortical circuits. *Neuron*, 112(23), 3851.

Liu Y, et al. (2024) Cell class-specific long-range axonal projections of neurons in mouse whisker-related somatosensory cortices. *eLife*, 13.

Wang H, et al. (2023) Parallel pathways carrying direction and orientation selective retinal signals to layer 4 of mouse visual cortex. *bioRxiv : the preprint server for biology*.

Aggarwal A, et al. (2023) Glutamate indicators with improved activation kinetics and localization for imaging synaptic transmission. *Nature methods*, 20(6), 925.

Li JY, et al. (2023) Input-specific synaptic depression shapes temporal integration in mouse visual cortex. *bioRxiv : the preprint server for biology*.

Kiritani T, et al. (2023) Membrane potential dynamics of excitatory and inhibitory neurons in mouse barrel cortex during active whisker sensing. *PloS one*, 18(6), e0287174.

Cai B, et al. (2023) A direct spino-cortical circuit bypassing the thalamus modulates nociception. *Cell research*, 33(10), 775.