

Resource Summary Report

Generated by [Kravitz](#) on Sep 18, 2026

STOCK Tg(Slc17a8-icre)1Edw/SealJ

RRID:IMSR_JAX:018147

Type: Organism

Proper Citation

RRID:IMSR_JAX:018147

Organism Information

URL: <https://www.jax.org/strain/018147>

Proper Citation: RRID:IMSR_JAX:018147

Description: Mus musculus with name STOCK Tg(Slc17a8-icre)1Edw/SealJ from IMSR.

Species: Mus musculus

Synonyms: STOCK Tg(Slc17a8-icre)1Edw/J

Notes: gene symbol note: [transgene insertion 1; Robert H Edwards|solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter); member 8; mutant stock: |Tg(Slc17a8-icre)1Edw|Slc17a8

Affected Gene: [transgene insertion 1; Robert H Edwards|solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter); member 8

Genomic Alteration: transgene insertion 1; Robert H Edwards

Catalog Number: JAX:018147

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Tg(Slc17a8-icre)1Edw/SealJ

Record Creation Time: 20250513T053736+0000

Record Last Update: 20260912T060522+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(Slc17a8-icre)1Edw/SealJ.

No alerts have been found for STOCK Tg(Slc17a8-icre)1Edw/SealJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Fatima M, et al. (2026) A specialized population of hair afferents dedicated to transmitting mechanical itch. *Neuron*.

Noh MC, et al. (2025) A molecular and spinal circuit basis for the functional segregation of itch and pain. *bioRxiv : the preprint server for biology*.

Carbonell-Roig J, et al. (2024) Dysregulated acetylcholine-mediated dopamine neurotransmission in the eIF4E Tg mouse model of autism spectrum disorders. *Cell reports*, 43(12), 114997.

Chang Y, et al. (2024) Vglut2-based glutamatergic signaling in central noradrenergic neurons is dispensable for normal breathing and chemosensory reflexes. *bioRxiv : the preprint server for biology*.

Carbonell-Roig J, et al. (2024) Dysregulated acetylcholine-mediated dopamine neurotransmission in the eIF4E Tg mouse model of autism spectrum disorders. *bioRxiv : the preprint server for biology*.

Pomaville MB, et al. (2023) Follicle-innervating A β -low threshold mechanoreceptive neurons form receptive fields through homotypic competition. *Neural development*, 18(1), 2.

Wang Q, et al. (2023) Regional and cell-type-specific afferent and efferent projections of the mouse claustrum. *Cell reports*, 42(2), 112118.

Wang J, et al. (2023) Taok1 haploinsufficiency leads to autistic-like behaviors in mice via the dorsal raphe nucleus. *Cell reports*, 42(9), 113078.

Yao Z, et al. (2021) A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. *Cell*, 184(12), 3222.

Lee BR, et al. (2021) Scaled, high fidelity electrophysiological, morphological, and transcriptomic cell characterization. *eLife*, 10.

- Peirs C, et al. (2021) Mechanical Allodynia Circuitry in the Dorsal Horn Is Defined by the Nature of the Injury. *Neuron*, 109(1), 73.
- 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.
- Pelkey KA, et al. (2020) Paradoxical network excitation by glutamate release from VGlut3+ GABAergic interneurons. *eLife*, 9.
- Wang Q, et al. (2020) The Allen Mouse Brain Common Coordinate Framework: A 3D Reference Atlas. *Cell*, 181(4), 936.
- Gouwens NW, et al. (2020) Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells. *Cell*, 183(4), 935.
- Jia Y, et al. (2020) A retinal circuit for the suppressed-by-contrast receptive field of a polyaxonal amacrine cell. *Proceedings of the National Academy of Sciences of the United States of America*, 117(17), 9577.
- Zimmerman AL, et al. (2019) Distinct Modes of Presynaptic Inhibition of Cutaneous Afferents and Their Functions in Behavior. *Neuron*, 102(2), 420.
- de Jong JW, et al. (2019) A Neural Circuit Mechanism for Encoding Aversive Stimuli in the Mesolimbic Dopamine System. *Neuron*, 101(1), 133.
- Griffith TN, et al. (2019) Tetrodotoxin-Sensitive Sodium Channels Mediate Action Potential Firing and Excitability in Menthol-Sensitive Vglut3-Lineage Sensory Neurons. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 39(36), 7086.
- Lee S, et al. (2016) Segregated Glycine-Glutamate Co-transmission from vGluT3 Amacrine Cells to Contrast-Suppressed and Contrast-Enhanced Retinal Circuits. *Neuron*, 90(1), 27.