

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://www.fdi-lab.org) on Apr 4, 2025

STOCK Slc17a6^{tm1Lowl/J}

RRID:IMSR_JAX:012898

Type: Organism

Proper Citation

RRID:IMSR_JAX:012898

Organism Information

URL: <https://www.jax.org/strain/012898>

Proper Citation: RRID:IMSR_JAX:012898

Description: Mus musculus with name STOCK Slc17a6^{tm1Lowl/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter); member 6; mutant stock: Slc17a6

Affected Gene: solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter); member 6

Genomic Alteration: targeted mutation 1; Bradford B Lowell

Catalog Number: JAX:012898

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: sperm

Alternate IDs: IMSR_JAX:12898

Organism Name: STOCK Slc17a6^{tm1Lowl/J}

Record Creation Time: 20230509T193305+0000

Record Last Update: 20240104T174949+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Slc17a6^{tm1Lowl/J}.

No alerts have been found for STOCK Slc17a6^{tm1Lowl/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

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.

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

van der Heijden ME, et al. (2024) Cerebellar nuclei cells produce distinct pathogenic spike signatures in mouse models of ataxia, dystonia, and tremor. eLife, 12.

Grzelka K, et al. (2023) A synaptic amplifier of hunger for regaining body weight in the hypothalamus. Cell metabolism, 35(5), 770.

Xu Y, et al. (2023) Lateral septum as a melanocortin downstream site in obesity development. Cell reports, 42(5), 112502.

van der Heijden ME, et al. (2023) Glutamatergic cerebellar neurons differentially contribute to the acquisition of motor and social behaviors. Nature communications, 14(1), 2771.

Cui L, et al. (2022) Glutamate in primary afferents is required for itch transmission. Neuron, 110(5), 809.

Xie Z, et al. (2022) The gut-to-brain axis for toxin-induced defensive responses. Cell, 185(23), 4298.

van der Heijden ME, et al. (2022) Influence of data sampling methods on the representation of neural spiking activity in vivo. iScience, 25(11), 105429.

Anstötz M, et al. (2022) Glutamate released by Cajal-Retzius cells impacts specific

hippocampal circuits and behaviors. *Cell reports*, 39(7), 110822.

Farhy-Tselnicker I, et al. (2021) Activity-dependent modulation of synapse-regulating genes in astrocytes. *eLife*, 10.

Li F, et al. (2021) Sneezing reflex is mediated by a peptidergic pathway from nose to brainstem. *Cell*, 184(14), 3762.

Ding J, et al. (2021) Spatially displaced excitation contributes to the encoding of interrupted motion by a retinal direction-selective circuit. *eLife*, 10.

Moldavan MG, et al. (2018) Circadian Behavioral Responses to Light and Optic Chiasm-Evoked Glutamatergic EPSCs in the Suprachiasmatic Nucleus of ipRGC Conditional vGlut2 Knock-Out Mice. *eNeuro*, 5(3).

Aguilar JI, et al. (2017) Neuronal Depolarization Drives Increased Dopamine Synaptic Vesicle Loading via VGLUT. *Neuron*, 95(5), 1074.

Liu J, et al. (2017) Enhanced AMPA Receptor Trafficking Mediates the Anorexigenic Effect of Endogenous Glucagon-like Peptide-1 in the Paraventricular Hypothalamus. *Neuron*, 96(4), 897.