

Resource Summary Report

Generated by [nidm-terms](#) on Jul 30, 2026

B6.129S-Chat^{tm1(cre)Lowl}/MwarJ

RRID:IMSR_JAX:031661

Type: Organism

Proper Citation

RRID:IMSR_JAX:031661

Organism Information

URL: <https://www.jax.org/strain/031661>

Proper Citation: RRID:IMSR_JAX:031661

Description: Mus musculus with name B6.129S-Chat^{tm1(cre)Lowl}/MwarJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: |choline O-acetyltransferase; mutant strain|congenic strain:
|Chat

Affected Gene: |choline O-acetyltransferase

Genomic Alteration: targeted mutation 1; Bradford B Lowell

Catalog Number: JAX:031661

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S-Chat^{tm1(cre)Lowl}/MwarJ

Record Creation Time: 20250513T053824+0000

Record Last Update: 20260725T044524+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S-Chat^{tm1(cre)Lowl}/MwarJ.

No alerts have been found for B6.129S-Chat^{tm1(cre)Lowl}/MwarJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Slade LE, et al. (2026) Neurotoxic effects of chronic ethanol on cholinergic interneurons in the dorsomedial striatum. *Neuropharmacology*, 282, 110706.

Wang Z, et al. (2026) An enteric-DRG pathway for interoception and visceral pain in mice. *Neuron*, 114(1), 105.

Sun Q, et al. (2025) Dynorphin modulates reward-seeking actions through a pallido-amygdala cholinergic circuit. *Neuron*, 113(11), 1823.

Lin M, et al. (2025) A cholinergic spinal pathway for the adaptive control of breathing. *Cell reports*, 44(8), 116078.

Foote AG, et al. (2025) Cellular heterogeneity and patterning strategies as revealed by upper respiratory epithelium single cell atlas. *iScience*, 28(7), 112845.

Fallah M, et al. (2025) Inhibitory basal ganglia nuclei differentially innervate pedunculopontine nucleus subpopulations and evoke differential motor and valence behaviors. *eLife*, 13.

Hamnett R, et al. (2025) Enteric glutamatergic interneurons regulate intestinal motility. *Neuron*, 113(7), 1019.

Bocarsly ME, et al. (2025) Brain insulin signaling restores deficits in striatal dopamine release in overweight male mice with preexisting low D2-receptor expression. *bioRxiv : the preprint server for biology*.

Vattino LG, et al. (2025) Layer 6 is a hub for cholinergic modulation in the mouse auditory cortex. *bioRxiv : the preprint server for biology*.

Ananth MR, et al. (2025) A central role for acetylcholine in entorhinal cortex function and dysfunction with age in humans and mice. *Cell reports*, 44(2), 115249.

Xu QJ, et al. (2025) Two Specialized Intrinsic Cardiac Neuron Types Safeguard Heart Homeostasis and Stress Resilience. *bioRxiv : the preprint server for biology*.

Goldbach HC, et al. (2025) Cholinergic-dependent dopamine signals in mouse dorsal striatum are regulated by frontal but not sensory cortices. *bioRxiv : the preprint server for biology*.

Fallah M, et al. (2024) Inhibitory basal ganglia nuclei differentially innervate pedunculopontine nucleus subpopulations and evoke opposite motor and valence behaviors. *bioRxiv : the preprint server for biology*.

Liu YA, et al. (2024) Phase synchrony between prefrontal noradrenergic and cholinergic signals indexes inhibitory control. *bioRxiv : the preprint server for biology*.

Chang H, et al. (2024) Stress-sensitive neural circuits change the gut microbiome via duodenal glands. *Cell*, 187(19), 5393.

Hamacher C, et al. (2024) A revised conceptual framework for mouse vomeronasal pumping and stimulus sampling. *Current biology : CB*, 34(6), 1206.

Dermentzaki G, et al. (2024) Depletion of *Mettl3* in cholinergic neurons causes adult-onset neuromuscular degeneration. *Cell reports*, 43(4), 113999.

Chander PR, et al. (2024) Neural Circuits Underlying Multifeature Extraction in the Retina. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(10).

Matityahu L, et al. (2024) Synchronous activation of striatal cholinergic interneurons induces local serotonin release. *bioRxiv : the preprint server for biology*.

Sun Q, et al. (2024) Dynorphin modulates motivation through a pallido-amygdala cholinergic circuit. *bioRxiv : the preprint server for biology*.