

Resource Summary Report

Generated by [NIF](#) on Sep 6, 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: 20260905T044558+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 56 mentions in open access literature.

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

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

Kobayashi H, et al. (2026) A self-amplifying nerve-fibroblast circuit drives colorectal cancer progression. *Cancer cell*.

Münzberg H, et al. (2026) Brunner's Glands in the Duodenal Bulb Are Indirectly Innervated by Vagal Preganglionics That Connect With Cholinergic Enteric Neurons in the Myenteric Plexus. *The Journal of comparative neurology*, 534(5), e70164.

Vattino LG, et al. (2026) Layer 6 is a hub for cholinergic modulation in the mouse auditory cortex. *Cerebral cortex (New York, N.Y. : 1991)*, 36(1).

Zhang L, et al. (2026) Genetically encoded fluorescent reporters to visualize α -synuclein pathology in live brain. *Cell*, 189(7), 2108.

Pitcher MN, et al. (2026) Retinal waves shape starburst amacrine cell dendrite development through a direction-selective dendritic computation. *bioRxiv : the preprint server for biology*.

Xu QJ, et al. (2026) The intrinsic cardiac nervous system is essential for cardiac function and survival. *Cell*.

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

Zhang M, et al. (2026) Sleep disturbance triggers aberrant activation of vagus circuitry and induces intestinal stem cell dysfunction. *Cell stem cell*, 33(2), 306.

Beaudoin DL, et al. (2026) Rod photoreceptors control the ON vs OFF polarity of cone-signaling neurons. *Communications biology*, 9(1).

Bohl JM, et al. (2026) Long-distance object motion evokes direction selectivity in retinal neurons through nicotinic receptors in bipolar cells. *Journal of neurophysiology*, 136(1), 34.

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

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

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.

Xu QJ, et al. (2025) Two Specialized Intrinsic Cardiac Neuron Types Safeguard Heart Homeostasis and Stress Resilience. *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.

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*.

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

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