# Resource Summary Report

Generated by nidm-terms on Jul 28, 2026

## B6;129S6-Chat$^{tm2(cre)Lowl}$/J

RRID:IMSR_JAX:006410
Type: Organism

### Proper Citation

RRID:IMSR_JAX:006410

### Organism Information

**URL:** https://www.jax.org/strain/006410

**Proper Citation:** RRID:IMSR_JAX:006410

**Description:** Mus musculus with name B6;129S6-Chat$^{tm2(cre)Lowl}$/J from IMSR.

**Species:** Mus musculus

**Synonyms:** B6;129S6-Chat/J

**Notes:** gene symbol note: |choline O-acetyltransferase; mutant stock: |Chat

**Affected Gene:** |choline O-acetyltransferase

**Genomic Alteration:** targeted mutation 2; Bradford B Lowell

**Catalog Number:** JAX:006410

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** B6;129S6-Chat$^{tm2(cre)Lowl}$/J

**Record Creation Time:** 20250513T053656+0000

**Record Last Update:** 20260725T044408+0000

### Ratings and Alerts

No rating or validation information has been found for B6;129S6-Chat$^{tm2(cre)Lowl}$/J.

No alerts have been found for B6;129S6-Chat$^{tm2(cre)Lowl}$/J.

## Data and Source Information

**Source:** Integrated Animals

**Source Database:** JAX Mice and Services

## Usage and Citation Metrics

We found 223 mentions in open access literature.

**Listed below are recent publications.** The full list is available at nidm-terms .


Aisenberg EE, et al. (2025) Gastrin-releasing peptide signaling in the nucleus accumbens medial shell regulates neuronal excitability and motivation. Nature communications, 16(1), 9314.

Chen H, et al. (2025) Postprandial parasympathetic signals promote lung type 2 immunity. Neuron, 113(5), 670.

Karekal A, et al. (2025) Optogenetic methods to stimulate gamma motor neuron axons ex vivo. Experimental physiology, 110(10), 1531.

Galloway DA, et al. (2025) miR-146a is a Pleiotropic Regulator of Motor Neuron Degeneration. bioRxiv : the preprint server for biology.

Millett CJ, et al. (2025) In vivo transcriptomic, functional, circuit-based, and translational analyses of enteric neurons. Cell, 188(26), 7547.

Miyasaka A, et al. (2025) Sequential transitions of male sexual behaviors driven by dual acetylcholine-dopamine dynamics. Neuron, 113(8), 1240.

Tubert C, et al. (2025) Striatal cholinergic interneuron pause response requires Kv1 channels, is absent in dyskinetic mice, and is restored by dopamine D5 receptor inverse agonism. eLife, 13.

Crozat E, et al. (2025) Cerebrospinal fluid-contacting neurons are sensory neurons with uniform morphological and region-specific electrophysiological properties in the mouse spinal cord. Communications biology, 8(1), 1233.

Zhu L, et al. (2025) Medial septum parvalbumin-expressing inhibitory neurons are impaired in a mouse model of Dravet syndrome. Epilepsia, 66(10), 4053.

Hsu MT, et al. (2025) Cholinergic interneurons of the dorsomedial striatum mediate winner-loser effects on social hierarchy dynamics in male mice. iScience, 28(10), 113581.

Srinivasan S, et al. (2025) Evidence for low affinity of GABA at the vesicular monoamine transporter VMAT2 - Implications for transmitter co-release from dopamine neurons. Neuropharmacology, 270, 110367.

Wang Y, et al. (2025) Huperzine A attenuates epileptic seizures via enhancing dCA1-projecting septal cholinergic transmission. Acta pharmacologica Sinica, 46(8), 2151.

Wang Y, et al. (2025) Septo-subicular cholinergic circuit promotes seizure development via astrocytic inflammation. Cell reports, 44(5), 115712.

Gong H, et al. (2025) Therapeutic potential of 5HT2CR in alleviating spasticity and pain via modulation of motor neurons and interneurons in spinal cord injury. iScience, 28(10), 113489.

Singhal SM, et al. (2025) Mu-opioid receptor activation potentiates excitatory transmission at the habenulo-peduncular synapse. Cell reports, 44(7), 115874.

Kiraly JK, et al. (2025) Slit2/Robo1 signaling constrains image stabilization responses to preserve ethologically favorable directional asymmetry. Current biology : CB.

Dong S, et al. (2025) Neuroanatomical organization of electroacupuncture in modulating gastric function in mice and humans. Neuron.

Pagiazitis JG, et al. (2025) Catecholaminergic dysfunction drives postural and locomotor deficits in a mouse model of spinal muscular atrophy. Cell reports, 44(1), 115147.

Li Y, et al. (2025) Cholinergic signaling to CA1 astrocytes controls fear extinction. Science advances, 11(14), eads7191.

Lee SS, et al. (2025) Sleep need-dependent plasticity of a thalamic circuit promotes homeostatic recovery sleep. Science (New York, N.Y.), 388(6753), eadm8203.