

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.