

Resource Summary Report

Generated by SPARC SAWG on Aug 29, 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: 20260829T044952+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 236 mentions in open access literature.

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

He A, et al. (2026) Amygdala astrocyte senescence drives stress-induced anxiety and hyperglycemia. *Cell metabolism*, 38(7), 1385.

Sun Y, et al. (2026) Transsynaptic tracing techniques to interrogate neuronal connectivity of glioblastomas. *Nature protocols*, 21(6), 2635.

deRosenroll G, et al. (2026) Uncovering the "hidden" synaptic microarchitecture of the retinal direction selective circuit. *Cell reports*, 45(2), 116833.

Uribe-Cano S, et al. (2026) The GPCR Smoothed on cholinergic interneurons modulates dopamine-associated acetylcholine dynamics, learning, and effort management. *iScience*, 29(5), 115324.

Goral RO, et al. (2026) Mesoscopic analysis of GABAergic marker expression in acetylcholine neurons in the whole mouse brain. *iScience*, 29(1), 114531.

Park G, et al. (2026) A brain stem circuit integrating reflexive and anticipatory salivation. *Cell reports*, 45(3), 117067.

Li SJ, et al. (2026) A disinhibitory basal forebrain-to-cortex projection supports sustained attention. *Cell*, 189(13), 4140.

Belal M, et al. (2026) Cholinergic interneuron control of GABAergic circuits targeting spiny projection neurons is disrupted in parkinsonian models. *bioRxiv : the preprint server for biology*.

Zheng Z, et al. (2026) Targeting PGAM5-driven mitochondrial integrated stress response slows ALS progression across subtypes. *Neuron*, 114(12), 2109.

Zheng ZW, et al. (2026) Molecular brake on firing pattern transitions in MHbChAT neurons to mediate nicotine-withdrawal-induced anxiety. *Neuron*, 114(13), 2441.

Fenstermacher SJ, et al. (2026) Potentiation of active locomotor state by spinal-projecting serotonergic neurons. *Neuron*, 114(6), 1117.

Halder M, et al. (2026) Probabilistic spike propagation shapes sympathetic output in mouse preganglionic neurons. *bioRxiv : the preprint server for biology*.

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.

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.

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.

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

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

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.