

Resource Summary Report

Generated by [kravitz2](#) on Aug 10, 2026

B6;129S-Oxt^{tm1.1}(cre)Dolsn/J

RRID:IMSR_JAX:024234

Type: Organism

Proper Citation

RRID:IMSR_JAX:024234

Organism Information

URL: <https://www.jax.org/strain/024234>

Proper Citation: RRID:IMSR_JAX:024234

Description: Mus musculus with name B6;129S-Oxt^{tm1.1}(cre)Dolsn/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |oxytocin; mutant stock: |Oxt

Affected Gene: |oxytocin

Genomic Alteration: targeted mutation 1.1; David P Olson

Catalog Number: JAX:024234

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S-Oxt^{tm1.1}(cre)Dolsn/J

Record Creation Time: 20250513T053750+0000

Record Last Update: 20260808T050953+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Oxt^{tm1.1}(cre)Dolsn/J.

No alerts have been found for B6;129S-Oxt^{tm1.1}(cre)Dolsn/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 34 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Knoop M, et al. (2026) Chemogenetic activation of oxytocinergic neurons modulates acute neuroinflammation and improves brain development after pediatric traumatic brain injury. *Brain, behavior, and immunity*, 133, 106293.

Liu RX, et al. (2026) Activation of the PVN-PVT oxytocinergic circuit mediates the anxiolytic effect of L-Cysteine in mice under chronic restraint stress. *European journal of pharmacology*, 1019, 178684.

Roueinfar M, et al. (2026) Region and Cell-Selective Induction of Zbtb16/Plzf by Multiple Stressors in the Adult Murine Hypothalamus. *The European journal of neuroscience*, 63(6), e70454.

Tan H, et al. (2025) Hypothalamic Oxytocin Neuronal Activation Induces Bipolar-Like Mood Changes in Mice in a Sex- and Dosage-Dependent Manner. *Neuroscience bulletin*.

Zelmanoff DD, et al. (2025) Oxytocin signaling regulates maternally directed behavior during early life. *Science (New York, N.Y.)*, 389(6765), eado5609.

Chang HT, et al. (2025) Oxytocin signaling in the ventral tegmental area mediates social isolation-induced craving for social interaction. *Journal of biomedical science*, 32(1), 37.

Wolf D, et al. (2024) Oxytocin induces the formation of distinctive cortical representations and cognitions biased toward familiar mice. *Nature communications*, 15(1), 6274.

Li Y, et al. (2024) Loss of transient receptor potential channel 5 causes obesity and postpartum depression. *Cell*, 187(16), 4176.

Zhang Y, et al. (2024) Interaction of acetylcholine and oxytocin neuromodulation in the hippocampus. *Neuron*, 112(11), 1862.

Zhan S, et al. (2024) Oxytocin neurons mediate stress-induced social memory impairment. *Current biology : CB*, 34(1), 36.

Worth AA, et al. (2024) Paraventricular oxytocin neurons impact energy intake and expenditure: projections to the bed nucleus of the stria terminalis reduce sucrose consumption. *Frontiers in endocrinology*, 15, 1449326.

Gruber T, et al. (2023) High-calorie diets uncouple hypothalamic oxytocin neurons from a gut-to-brain satiation pathway via μ -opioid signaling. *Cell reports*, 42(10), 113305.

Meng JJ, et al. (2023) Light modulates glucose metabolism by a retina-hypothalamus-brown adipose tissue axis. *Cell*, 186(2), 398.

Liu Y, et al. (2023) Molecular and cellular mechanisms of the first social relationship: A conserved role of 5-HT from mice to monkeys, upstream of oxytocin. *Neuron*, 111(9), 1468.

Huang YF, et al. (2023) Light disrupts social memory via a retina-to-supraoptic nucleus circuit. *EMBO reports*, 24(10), e56839.

Musardo S, et al. (2022) Oxytocin neurons mediate the effect of social isolation via the VTA circuits. *eLife*, 11.

Choe KY, et al. (2022) Oxytocin normalizes altered circuit connectivity for social rescue of the *Cntnap2* knockout mouse. *Neuron*, 110(5), 795.

Guo L, et al. (2022) Different oxytocin and corticotropin-releasing hormone system changes in bipolar disorder and major depressive disorder patients. *EBioMedicine*, 84, 104266.

Papazoglou I, et al. (2022) A distinct hypothalamus-to- δ cell circuit modulates insulin secretion. *Cell metabolism*, 34(2), 285.

Hu J, et al. (2022) Melanopsin retinal ganglion cells mediate light-promoted brain development. *Cell*, 185(17), 3124.