

Resource Summary Report

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

B6.Cg-Oxtr^{tm1.1}(cre)Hze/J

RRID:IMSR_JAX:031303

Type: Organism

Proper Citation

RRID:IMSR_JAX:031303

Organism Information

URL: <https://www.jax.org/strain/031303>

Proper Citation: RRID:IMSR_JAX:031303

Description: Mus musculus with name B6.Cg-Oxtr^{tm1.1}(cre)Hze/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |oxytocin receptor; mutant strain|congenic strain: |Oxtr

Affected Gene: |oxytocin receptor

Genomic Alteration: targeted mutation 1.1; Hongkui Zeng

Catalog Number: JAX:031303

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Oxtr^{tm1.1}(cre)Hze/J

Record Creation Time: 20250513T053821+0000

Record Last Update: 20260808T051018+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Oxtr^{tm1.1}(cre)Hze/J.

No alerts have been found for B6.Cg-Oxtr^{tm1.1}(cre)Hze/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Li S, et al. (2026) Dual anterior insula-prefrontal cortex circuits mediate chronic stress-induced social interaction deficits. *Neuron*, 114(12), 2237.

Matsumoto A, et al. (2025) Functionally distinct GABAergic amacrine cell types regulate spatiotemporal encoding in the mouse retina. *Nature neuroscience*, 28(6), 1256.

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

Zhang Y, et al. (2024) Long-term mesoscale imaging of 3D intercellular dynamics across a mammalian organ. *Cell*, 187(21), 6104.

Wang Q, et al. (2023) Regional and cell-type-specific afferent and efferent projections of the mouse claustrum. *Cell reports*, 42(2), 112118.

Lowenstein ED, et al. (2023) Prox2 and Runx3 vagal sensory neurons regulate esophageal motility. *Neuron*, 111(14), 2184.

Hu S, et al. (2022) Activation of oxytocin receptors in mouse GABAergic amacrine cells modulates retinal dopaminergic signaling. *BMC biology*, 20(1), 205.

Matsumoto A, et al. (2021) Direction selectivity in retinal bipolar cell axon terminals. *Neuron*, 109(18), 2928.

Sethuramanujam S, et al. (2021) Rapid multi-directed cholinergic transmission in the central nervous system. *Nature communications*, 12(1), 1374.

Yao Z, et al. (2021) A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. *Cell*, 184(12), 3222.

Gouwens NW, et al. (2020) Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells. *Cell*, 183(4), 935.

Daigle TL, et al. (2018) A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. *Cell*, 174(2), 465.