

Resource Summary Report

Generated by SPARC SAWG on Jul 31, 2026

B6.129(Cg)-Fos^{tm1.1}(cre/ERT2)Luo/J

RRID:IMSR_JAX:021882

Type: Organism

Proper Citation

RRID:IMSR_JAX:021882

Organism Information

URL: <https://www.jax.org/strain/021882>

Proper Citation: RRID:IMSR_JAX:021882

Description: Mus musculus with name B6.129(Cg)-Fos^{tm1.1}(cre/ERT2)Luo/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|Fos proto-oncogene; AP-1 transcription factor subunit; mutant strain|congenic strain: cre/ERT2|Fos

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|Fos proto-oncogene; AP-1 transcription factor subunit

Genomic Alteration: targeted mutation 1.1; Liquan Luo

Catalog Number: JAX:021882

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129(Cg)-Fos^{tm1.1}(cre/ERT2)Luo/J

Record Creation Time: 20250513T053744+0000

Record Last Update: 20260725T044451+0000

Ratings and Alerts

No rating or validation information has been found for B6.129(Cg)-Fos^{tm1.1(cre/ERT2)}Luo/J.

No alerts have been found for B6.129(Cg)-Fos^{tm1.1(cre/ERT2)}Luo/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 [SPARC SAWG](#).

Sweet SR, et al. (2025) Postnatal hyperosmolality alters development of hypothalamic feeding circuits with context-specific changes in ingestive behavior. *iScience*, 28(5), 112284.

Sun Y, et al. (2025) Motor learning drives region-specific transcriptomic remodeling in the motor cortex and dorsal striatum. *bioRxiv : the preprint server for biology*.

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

Choi TY, et al. (2024) Distinct prefrontal projection activity and transcriptional state conversely orchestrate social competition and hierarchy. *Neuron*, 112(4), 611.

McDougle M, et al. (2024) Separate gut-brain circuits for fat and sugar reinforcement combine to promote overeating. *Cell metabolism*, 36(2), 393.

Ryan MB, et al. (2024) Excessive firing of dyskinesia-associated striatal direct pathway neurons is gated by dopamine and excitatory synaptic input. *Cell reports*, 43(8), 114483.

de Araujo AM, et al. (2023) Asymmetric control of food intake by left and right vagal sensory neurons. *bioRxiv : the preprint server for biology*.

Park J, et al. (2023) Chemogenetic regulation of the TARP-lipid interaction mimics LTP and reversibly modifies behavior. *Cell reports*, 42(8), 112826.

Surdin T, et al. (2023) Optogenetic activation of mGluR1 signaling in the cerebellum induces synaptic plasticity. *iScience*, 26(1), 105828.

Mazurkiewicz M, et al. (2022) Neuronal activity mapping during exploration of a novel environment. *Brain research*, 1776, 147748.

Dirven BCJ, et al. (2022) Aberrant ventral dentate gyrus structure and function in trauma susceptible mice. *Translational psychiatry*, 12(1), 502.

Zhang YX, et al. (2022) NMDA receptor-mediated synaptic transmission in prefrontal neurons underlies social memory retrieval in female mice. *Neuropharmacology*, 204, 108895.

Yan Y, et al. (2022) ASH1L haploinsufficiency results in autistic-like phenotypes in mice and links Eph receptor gene to autism spectrum disorder. *Neuron*, 110(7), 1156.

Hwang FJ, et al. (2022) Motor learning selectively strengthens cortical and striatal synapses of motor engram neurons. *Neuron*, 110(17), 2790.

Koren T, et al. (2021) Insular cortex neurons encode and retrieve specific immune responses. *Cell*, 184(24), 5902.

Samineni VK, et al. (2021) Cellular, circuit and transcriptional framework for modulation of itch in the central amygdala. *eLife*, 10.

Kamm GB, et al. (2021) A synaptic temperature sensor for body cooling. *Neuron*, 109(20), 3283.

Herz J, et al. (2021) GABAergic neuronal IL-4R mediates T cell effect on memory. *Neuron*, 109(22), 3609.

Ivashkina OI, et al. (2021) Imaging of C-fos Activity in Neurons of the Mouse Parietal Association Cortex during Acquisition and Retrieval of Associative Fear Memory. *International journal of molecular sciences*, 22(15).

Kosmidis S, et al. (2021) A fast, aqueous, reversible three-day tissue clearing method for adult and embryonic mouse brain and whole body. *Cell reports methods*, 1(7), 100090.