

Resource Summary Report

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STOCK Fos^{tm2.1(icre/ERT2)Luo/J}

RRID:IMSR_JAX:030323

Type: Organism

Proper Citation

RRID:IMSR_JAX:030323

Organism Information

URL: <https://www.jax.org/strain/030323>

Proper Citation: RRID:IMSR_JAX:030323

Description: Mus musculus with name STOCK Fos^{tm2.1(icre/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 stock: 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 2.1; Liquan Luo

Catalog Number: JAX:030323

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: STOCK Fos^{tm2.1(icre/ERT2)Luo/J}

Record Creation Time: 20250513T053814+0000

Record Last Update: 20260725T044518+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Fos^{tm2.1(icre/ERT2)Luo/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 62 mentions in open access literature.

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

Golbabaie A, et al. (2026) PV-dependent reorganization of prelimbic cortex sub-engrams during systems consolidation. *Neuron*, 114(1), 142.

Ko SY, et al. (2025) Systems consolidation reorganizes hippocampal engram circuitry. *Nature*, 643(8072), 735.

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.

Xie T, et al. (2025) An excitatory circuit in the ventrolateral periaqueductal gray drives hypometabolic state during acute systemic inflammation. *Cell reports*, 44(10), 116394.

Wang T, et al. (2025) Identification of a neural basis for energy expenditure in the mouse arcuate hypothalamus. *Neuron*.

Li T, et al. (2025) A pontine center in descending pain control. *Neuron*, 113(11), 1789.

Parkins S, et al. (2025) Spatial Mapping of Activity Changes across Sensory Areas Following Visual Deprivation in Adults. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(4).

Ishii KK, et al. (2025) Post-ejaculatory inhibition of female sexual drive via heterogeneous neuronal ensembles in the medial preoptic area. *eLife*, 12.

Wang DC, et al. (2025) Distinct neural representations of hunger and thirst in neonatal mice before the emergence of food- and water-seeking behaviors. *Current biology : CB*, 35(13), 3106.

Valbuena S, et al. (2025) Early time window for memory ensemble allocation specifically depending on activity in Syt2+ early-born parvalbumin interneurons. *Cell reports*, 44(8), 116144.

Chu CH, et al. (2025) Nuclear paxillin functions as a molecular switch for alternative splicing in neurons during a critical period of brain development. *The EMBO journal*.

Kim J, et al. (2025) Encoding the glucose identity by discrete hypothalamic neurons via the gut-brain axis. *Neuron*, 113(16), 2673.

Swaro A, et al. (2025) Widespread and cell-type-specific transcriptomic reorganization following mild traumatic brain injury. *Cell reports*, 44(6), 115795.

Lei B, et al. (2025) Reconstructing a new hippocampal engram for systems reconsolidation and remote memory updating. *Neuron*, 113(3), 471.

Moya-Garzon MD, et al. (2025) A γ -hydroxybutyrate shunt pathway generates anti-obesity ketone metabolites. *Cell*, 188(1), 175.

Liu X, et al. (2025) Neural circuit underlying individual differences in visual escape habituation. *Neuron*, 113(14), 2344.

Noh MC, et al. (2025) A molecular and spinal circuit basis for the functional segregation of itch and pain. *bioRxiv : the preprint server for biology*.

Chen PP, et al. (2025) The distinct subpopulations in parafascicular thalamic nucleus encoding innate emotional valence. *Cell reports*, 44(11), 116482.

Dewa KI, et al. (2025) The astrocytic ensemble acts as a multiday trace to stabilize memory. *Nature*, 648(8092), 146.

Gaykema RP, et al. (2025) Spontaneous Seizure Outcomes in Mice Using an Improved Version of the Pilocarpine Model of Temporal Lobe Epilepsy. *International journal of molecular sciences*, 26(19).