Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 3, 2025

STOCK Erc2$^{tm1.2Sud}$/J

RRID:IMSR_JAX:015831
Type: Organism

Proper Citation

RRID:IMSR_JAX:015831

Organism Information

URL: https://www.jax.org/strain/015831

Proper Citation: RRID:IMSR_JAX:015831

Description: Mus musculus with name STOCK Erc2$^{tm1.2Sud}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: ELKS/RAB6-interacting/CAST family member 2; mutant stock: Erc2

Affected Gene: ELKS/RAB6-interacting/CAST family member 2

Genomic Alteration: targeted mutation 1.2; Thomas C Sudhof

Catalog Number: JAX:015831

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: sperm

Alternate IDs: IMSR_JAX:15831

Organism Name: STOCK Erc2$^{tm1.2Sud}$/J

Record Creation Time: 20230509T193308+0000

Record Last Update: 20240104T175002+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Erc2$^{tm1.2Sud}$/J.

No alerts have been found for STOCK Erc2$^{tm1.2Sud}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Emperador-Melero J, et al. (2024) Distinct active zone protein machineries mediate Ca2+ channel clustering and vesicle priming at hippocampal synapses. Nature neuroscience, 27(9), 1680.

Emperador-Melero J, et al. (2023) Molecular definition of distinct active zone protein machineries for Ca2+ channel clustering and synaptic vesicle priming. bioRxiv : the preprint server for biology.

Tan C, et al. (2022) Rebuilding essential active zone functions within a synapse. Neuron, 110(9), 1498.

Tan C, et al. (2022) Munc13 supports fusogenicity of non-docked vesicles at synapses with disrupted active zones. eLife, 11.

Luo L, et al. (2020) Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. Neuron, 106(1), 37.

Nyitrai H, et al. (2020) ELKS1 Captures Rab6-Marked Vesicular Cargo in Presynaptic Nerve Terminals. Cell reports, 31(10), 107712.

Liu C, et al. (2018) Dopamine Secretion Is Mediated by Sparse Active Zone-like Release Sites. Cell, 172(4), 706.

Held RG, et al. (2016) ELKS controls the pool of readily releasable vesicles at excitatory synapses through its N-terminal coiled-coil domains. eLife, 5.

Liu C, et al. (2014) The active zone protein family ELKS supports Ca2+ influx at nerve terminals of inhibitory hippocampal neurons. The Journal of neuroscience : the official journal of the Society for Neuroscience, 34(37), 12289.