Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 11, 2025

STOCK Rims2$^{tm1.1Sud}$/J

RRID:IMSR_JAX:015833
Type: Organism

Proper Citation

RRID:IMSR_JAX:015833

Organism Information

URL: https://www.jax.org/strain/015833

Proper Citation: RRID:IMSR_JAX:015833

Description: Mus musculus with name STOCK Rims2$^{tm1.1Sud}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: regulating synaptic membrane exocytosis 2; mutant stock: Rims2

Affected Gene: regulating synaptic membrane exocytosis 2

Genomic Alteration: targeted mutation 1.1; Thomas C Sudhof

Catalog Number: JAX:015833

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: sperm

Alternate IDs: IMSR_JAX:15833

Organism Name: STOCK Rims2$^{tm1.1Sud}$/J

Record Creation Time: 20230509T193308+0000

Record Last Update: 20240104T175002+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Rims2$^{tm1.1Sud}$/J.

No alerts have been found for STOCK Rims2$^{tm1.1Sud}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 13 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.

Kershberg L, et al. (2022) Protein composition of axonal dopamine release sites in the striatum. eLife, 11.

Banerjee A, et al. (2022) Molecular and functional architecture of striatal dopamine release sites. Neuron, 110(2), 248.

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

Zych SM, et al. (2022) Divergent properties and independent regulation of striatal dopamine and GABA co-transmission. Cell reports, 39(7), 110823.

Müller JA, et al. (2022) A presynaptic phosphosignaling hub for lasting homeostatic plasticity. Cell reports, 39(3), 110696.

Hilton BJ, et al. (2022) An active vesicle priming machinery suppresses axon regeneration upon adult CNS injury. Neuron, 110(1), 51.

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.

Robinson BG, et al. (2019) RIM is essential for stimulated but not spontaneous somatodendritic dopamine release in the midbrain. eLife, 8.

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

de Jong APH, et al. (2018) RIM C2B Domains Target Presynaptic Active Zone Functions to PIP2-Containing Membranes. Neuron, 98(2), 335.