

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 25, 2026

B6.Cg-Stim1^{tm1Rao}/J

RRID:IMSR_JAX:023350

Type: Organism

Proper Citation

RRID:IMSR_JAX:023350

Organism Information

URL: <https://www.jax.org/strain/023350>

Proper Citation: RRID:IMSR_JAX:023350

Description: Mus musculus with name B6.Cg-Stim1^{tm1Rao}/J from IMSR.

Species: Mus musculus

Synonyms: B6(Cg)-Stim1/J

Notes: gene symbol note: stromal interaction molecule 1; mutant strain|congenic strain: Stim1

Affected Gene: stromal interaction molecule 1

Genomic Alteration: targeted mutation 1; Anjana Rao

Catalog Number: JAX:023350

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.Cg-Stim1^{tm1Rao}/J

Record Creation Time: 20250513T053747+0000

Record Last Update: 20260815T050659+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Stim1^{tm1Rao}/J.

No alerts have been found for B6.Cg-Stim1^{tm1Rao}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Chhikara A, et al. (2025) Activity-dependent localization and dynamics of STIM1 and STIM2 at ER-PM contacts in hippocampal neurons. Cell reports, 44(10), 116290.

Qiu J, et al. (2022) CRISPR/SaCas9 mutagenesis of stromal interaction molecule 1 in proopiomelanocortin neurons increases glutamatergic excitability and protects against diet-induced obesity. Molecular metabolism, 66, 101645.

Krishnan V, et al. (2022) STIM1-dependent peripheral coupling governs the contractility of vascular smooth muscle cells. eLife, 11.

Qiu J, et al. (2021) Deletion of Stim1 in Hypothalamic Arcuate Nucleus Kiss1 Neurons Potentiates Synchronous GCaMP Activity and Protects against Diet-Induced Obesity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 41(47), 9688.

Ingiosi AM, et al. (2020) A Role for Astroglial Calcium in Mammalian Sleep and Sleep Regulation. Current biology : CB, 30(22), 4373.