

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://www.fdi-lab.org) on Apr 21, 2025

B6N.129-Gria1^{tm1Rsp/J}

RRID:IMSR_JAX:019011

Type: Organism

Proper Citation

RRID:IMSR_JAX:019011

Organism Information

URL: <https://www.jax.org/strain/019011>

Proper Citation: RRID:IMSR_JAX:019011

Description: Mus musculus with name B6N.129-Gria1^{tm1Rsp/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: glutamate receptor; ionotropic; AMPA1 (alpha 1); mutant strain|congenic strain: Gria1

Affected Gene: glutamate receptor; ionotropic; AMPA1 (alpha 1)

Genomic Alteration: targeted mutation 1; Rolf Sprengel

Catalog Number: JAX:019011

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: sperm

Alternate IDs: IMSR_JAX:19011

Organism Name: B6N.129-Gria1^{tm1Rsp/J}

Record Creation Time: 20230509T193314+0000

Record Last Update: 20250412T090619+0000

Ratings and Alerts

No rating or validation information has been found for B6N.129-Gria1^{tm1Rsp/J}.

No alerts have been found for B6N.129-Gria1^{tm1Rsp/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Eltokhi A, et al. (2023) Distinct effects of AMPAR subunit depletion on spatial memory. *iScience*, 26(11), 108116.

Aitta-Aho T, et al. (2019) Attenuation of Novelty-Induced Hyperactivity of Gria1^{-/-} Mice by Cannabidiol and Hippocampal Inhibitory Chemogenetics. *Frontiers in pharmacology*, 10, 309.

Bannerman DM, et al. (2018) Somatic Accumulation of GluA1-AMPA Receptors Leads to Selective Cognitive Impairments in Mice. *Frontiers in molecular neuroscience*, 11, 199.

Shimshek DR, et al. (2017) Different Forms of AMPA Receptor Mediated LTP and Their Correlation to the Spatial Working Memory Formation. *Frontiers in molecular neuroscience*, 10, 214.