

Resource Summary Report

Generated by PRECISE-TBI on Sep 19, 2026

B6N.129-Gria3^{tm1Rsp}/Kctt

RRID:IMSR_EM:09215

Type: Organism

Proper Citation

RRID:IMSR_EM:09215

Organism Information

URL: <https://www.infrafrontier.eu/emma/strain-details/?q=9215>

Proper Citation: RRID:IMSR_EM:09215

Description: Mus musculus with name B6N.129-Gria3^{tm1Rsp}/Kctt from IMSR.

Species: Mus musculus

Synonyms: Gria3^{tm2Rsp} (Lab name RC2)

Notes: gene symbol note: glutamate receptor; ionotropic; AMPA3 (alpha 3); mutant strain: Gria3

Affected Gene: glutamate receptor; ionotropic; AMPA3 (alpha 3)

Genomic Alteration: targeted mutation 1; Rolf Sprengel

Catalog Number: EM:09215

Database: European Mouse Mutant Archive

Database Abbreviation: EMMA

Availability: sperm

Organism Name: B6N.129-Gria3^{tm1Rsp}/Kctt

Record Creation Time: 20250513T062250+0000

Record Last Update: 20260919T064212+0000

Ratings and Alerts

No rating or validation information has been found for B6N.129-Gria3^{tm1Rsp}/Kctt.

No alerts have been found for B6N.129-Gria3^{tm1Rsp}/Kctt.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: European Mouse Mutant Archive

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

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

Watson JF, et al. (2021) AMPA receptor anchoring at CA1 synapses is determined by N-terminal domain and TARP $\gamma 8$ interactions. Nature communications, 12(1), 5083.

Ho H, et al. (2020) An inhalation anaesthesia approach for neonatal mice allowing streamlined stereotactic injection in the brain. Journal of neuroscience methods, 342, 108824.

Watson JF, et al. (2017) Synaptic transmission and plasticity require AMPA receptor anchoring via its N-terminal domain. eLife, 6.

Renner MC, et al. (2017) Synaptic plasticity through activation of GluA3-containing AMPA-receptors. eLife, 6.

Kougioumtzidou E, et al. (2017) Signalling through AMPA receptors on oligodendrocyte precursors promotes myelination by enhancing oligodendrocyte survival. eLife, 6.