Resource Summary Report

Generated by kravitz2 on Aug 1, 2026

C.129S4-C3ar1^{tm1Cge}/J

RRID:IMSR_JAX:005712
Type: Organism

Proper Citation

RRID:IMSR_JAX:005712

Organism Information

URL: https://www.jax.org/strain/005712

Proper Citation: RRID:IMSR_JAX:005712

Description: Mus musculus with name C.129S4-C3ar1^{tm1Cge}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: complement component 3a receptor 1; mutant strain|congenic strain: C3ar1

Affected Gene: complement component 3a receptor 1

Genomic Alteration: targeted mutation 1; Craig Gerard

Catalog Number: JAX:005712

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: C.129S4-C3ar1^{tm1Cge}/J

Record Creation Time: 20250513T053651+0000

Record Last Update: 20260801T050356+0000

Ratings and Alerts

No rating or validation information has been found for C.129S4-C3ar1^{tm1Cge}/J.

No alerts have been found for C.129S4-C3ar1^{tm1Cge}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Zheng Z, et al. (2021) Lung mesenchymal stromal cells influenced by Th2 cytokines mobilize neutrophils and facilitate metastasis by producing complement C3. Nature communications, 12(1), 6202.

Bertocchi A, et al. (2021) Gut vascular barrier impairment leads to intestinal bacteria dissemination and colorectal cancer metastasis to liver. Cancer cell, 39(5), 708.

Harder JM, et al. (2020) Complement peptide C3a receptor 1 promotes optic nerve degeneration in DBA/2J mice. Journal of neuroinflammation, 17(1), 336.

Zhang LY, et al. (2020) Microglia exacerbate white matter injury via complement C3/C3aR pathway after hypoperfusion. Theranostics, 10(1), 74.

Litvinchuk A, et al. (2018) Complement C3aR Inactivation Attenuates Tau Pathology and Reverses an Immune Network Deregulated in Tauopathy Models and Alzheimer's Disease. Neuron, 100(6), 1337.

Roy RM, et al. (2013) Complement component 3C3 and C3a receptor are required in chitin-dependent allergic sensitization to Aspergillus fumigatus but dispensable in chitin-induced innate allergic inflammation. mBio, 4(2).