

Resource Summary Report

Generated by [dkNET](#) on Sep 4, 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: 20260829T044942+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 [dkNET](#) .

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).