

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

B6.129S4-C3^{tm1Crr}/J

RRID:IMSR_JAX:029661

Type: Organism

Proper Citation

RRID:IMSR_JAX:029661

Organism Information

URL: <https://www.jax.org/strain/029661>

Proper Citation: RRID:IMSR_JAX:029661

Description: Mus musculus with name B6.129S4-C3^{tm1Crr}/J from IMSR.

Species: Mus musculus

Synonyms: B6;129S4-C3/J

Notes: gene symbol note: complement component 3; mutant strain|congenic strain: C3

Affected Gene: complement component 3

Genomic Alteration: targeted mutation 1; Michael C Carroll

Catalog Number: JAX:029661

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S4-C3^{tm1Crr}/J

Record Creation Time: 20250513T053810+0000

Record Last Update: 20260725T044515+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-C3^{tm1Crr}/J.

No alerts have been found for B6.129S4-C3^{tm1Crr}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Ryan NM, et al. (2025) Vaccination against *Onchocerca volvulus* induces IgG-mediated protective immunity dependent on neutrophils and complement. *NPJ vaccines*, 10(1), 221.

Midon LM, et al. (2025) Complement C3 Deficiency Enhances Renal Leptospiral Load and Inflammation While Impairing T Cell Differentiation During Chronic *Leptospira interrogans* Infection. *bioRxiv : the preprint server for biology*.

Moura Midon L, et al. (2025) Complement C3 deficiency enhances renal leptospiral load and inflammation while impairing T cell differentiation during chronic *Leptospira interrogans* infection. *Infection and immunity*, 93(12), e0039825.

Liu X, et al. (2025) Nanobody-based bispecific antibody engagers targeting CTLA-4 or PD-L1 for cancer immunotherapy. *Nature biomedical engineering*.

Atakkatan A, et al. (2025) Complement-producing adventitial fibroblasts form an IL-33 alarmin hub that maintains ILC2s during airway allergy. *Cell reports*, 44(12), 116641.

Wu M, et al. (2024) Gut complement induced by the microbiota combats pathogens and spares commensals. *Cell*, 187(4), 897.

Xu D, et al. (2024) Complement in breast milk modifies offspring gut microbiota to promote infant health. *Cell*, 187(3), 750.

Passino R, et al. (2024) Neutrophil-inflicted vasculature damage suppresses immune-mediated optic nerve regeneration. *Cell reports*, 43(3), 113931.

Asghari Adib E, et al. (2024) DLK signaling in axotomized neurons triggers complement activation and loss of upstream synapses. *Cell reports*, 43(2), 113801.

Hu S, et al. (2023) *Helicobacter pylori* initiates successful gastric colonization by utilizing L-lactate to promote complement resistance. *Nature communications*, 14(1), 1695.

Pendse M, et al. (2023) Macrophages regulate gastrointestinal motility through complement component 1q. *eLife*, 12.

Carrillo GL, et al. (2023) Complement-dependent loss of inhibitory synapses on pyramidal neurons following *Toxoplasma gondii* infection. *Journal of neurochemistry*.

Sun H, et al. (2022) Bacteria reduce flagellin synthesis to evade microglia-astrocyte-driven immunity in the brain. *Cell reports*, 40(1), 111033.

Cohen A, et al. (2022) Genome-scale CRISPR screening reveals that C3aR signaling is critical for rapid capture of fungi by macrophages. *PLoS pathogens*, 18(9), e1010237.

Gordan S, et al. (2019) The Immunological Organ Environment Dictates the Molecular and Cellular Pathways of Cytotoxic Antibody Activity. *Cell reports*, 29(10), 3033.

Liu D, et al. (2019) IL-10-Dependent Crosstalk between Murine Marginal Zone B Cells, Macrophages, and CD8⁺ Dendritic Cells Promotes *Listeria monocytogenes* Infection. *Immunity*, 51(1), 64.