

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

B6.129S4-Ccr2^{tm1lfc}/J

RRID:IMSR_JAX:004999

Type: Organism

Proper Citation

RRID:IMSR_JAX:004999

Organism Information

URL: <https://www.jax.org/strain/004999>

Proper Citation: RRID:IMSR_JAX:004999

Description: Mus musculus with name B6.129S4-Ccr2^{tm1lfc}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: C-C motif chemokine receptor 2; mutant strain|congenic strain: Ccr2

Affected Gene: C-C motif chemokine receptor 2

Genomic Alteration: targeted mutation 1; Israel F Charo

Catalog Number: JAX:004999

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S4-Ccr2^{tm1lfc}/J

Record Creation Time: 20250513T053647+0000

Record Last Update: 20260725T044357+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Ccr2^{tm1lfc}/J.

No alerts have been found for B6.129S4-Ccr2^{tm1lfc}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 123 mentions in open access literature.

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

McCright SJ, et al. (2025) Dietary saturated fatty acids promote lung myeloid cell inflammasome activation and IL-1 β -mediated inflammation in mice and humans. *Science translational medicine*, 17(813), eadp5653.

Mauvais FX, et al. (2025) Metallophilic marginal zone macrophages cross-prime CD8+ T cell-mediated protective immunity against blood-borne tumors. *Immunity*, 58(4), 843.

Lehtonen H, et al. (2025) Early precursor-derived pituitary gland tissue-resident macrophages play a pivotal role in modulating hormonal balance. *Cell reports*, 44(2), 115227.

Boutet M, et al. (2025) Mutations in MLL3 promote breast cancer progression via HIF1 β -dependent intratumoral recruitment and differentiation of regulatory T cells. *Immunity*, 58(8), 2035.

Perrotta S, et al. (2025) A heart-brain-spleen axis controls cardiac remodeling to hypertensive stress. *Immunity*, 58(3), 648.

Zhang J, et al. (2025) Bacterial pneumonia induces senescence in resident alveolar macrophages that are outcompeted by monocytes. *Cell reports*, 44(5), 115571.

Kim CW, et al. (2025) Gut dysbiosis from high-salt diet promotes glioma via propionate-mediated TGF- β activation. *The Journal of experimental medicine*, 222(8).

Kim SH, et al. (2025) IL-10 sensing by lung interstitial macrophages prevents bacterial dysbiosis-driven pulmonary inflammation and maintains immune homeostasis. *Immunity*, 58(5), 1306.

Sharma A, et al. (2025) Activation of the endoplasmic reticulum stress regulator IRE1 α compromises pulmonary host defenses. *Cell reports*, 44(5), 115632.

Waibl Polania J, et al. (2024) Antigen presentation by tumor-associated macrophages drives T cells from a progenitor exhaustion state to terminal exhaustion. *Immunity*.

Di Martino E, et al. (2024) Inflammatory, metabolic, and sex-dependent gene-regulatory dynamics of microglia and macrophages in neonatal hippocampus after hypoxia-ischemia. *iScience*, 27(4), 109346.

Grigsby SJ, et al. (2024) CpsA mediates infection of recruited lung myeloid cells by *Mycobacterium tuberculosis*. *Cell reports*, 43(1), 113607.

Mandula JK, et al. (2024) Jagged2 targeting in lung cancer activates anti-tumor immunity via Notch-induced functional reprogramming of tumor-associated macrophages. *Immunity*, 57(5), 1124.

Xu L, et al. (2023) METTL3 promotes hyperoxia-induced pyroptosis in neonatal bronchopulmonary dysplasia by inhibiting ATG8-mediated autophagy. *Clinics (Sao Paulo, Brazil)*, 78, 100253.

Rawat K, et al. (2023) CCL5-producing migratory dendritic cells guide CCR5+ monocytes into the draining lymph nodes. *The Journal of experimental medicine*, 220(6).

Zhang L, et al. (2023) CCR2 is a host entry receptor for severe fever with thrombocytopenia syndrome virus. *Science advances*, 9(31), eadg6856.

Hou F, et al. (2023) Distinct Transcriptional and Functional Differences of Lung Resident and Monocyte-Derived Alveolar Macrophages During the Recovery Period of Acute Lung Injury. *Immune network*, 23(3), e24.

Wang J, et al. (2023) Bacterial meningitis in the early postnatal mouse studied at single-cell resolution. *eLife*, 12.

Uehara Y, et al. (2023) Insights into pulmonary phosphate homeostasis and osteoclastogenesis emerge from the study of pulmonary alveolar microlithiasis. *Nature communications*, 14(1), 1205.

Ma W, et al. (2023) Type I interferon response in astrocytes promotes brain metastasis by enhancing monocytic myeloid cell recruitment. *Nature communications*, 14(1), 2632.