

Resource Summary Report

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

B6.129(Cg)-Ccr2^{tm2.1lfc/J}

RRID:IMSR_JAX:017586

Type: Organism

Proper Citation

RRID:IMSR_JAX:017586

Organism Information

URL: <https://www.jax.org/strain/017586>

Proper Citation: RRID:IMSR_JAX:017586

Description: Mus musculus with name B6.129(Cg)-Ccr2^{tm2.1lfc/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 2.1; Israel F Charo

Catalog Number: JAX:017586

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129(Cg)-Ccr2^{tm2.1lfc/J}

Record Creation Time: 20250513T053733+0000

Record Last Update: 20260725T044441+0000

Ratings and Alerts

No rating or validation information has been found for B6.129(Cg)-Ccr2^{tm2.1lfc/J}.

No alerts have been found for B6.129(Cg)-Ccr2^{tm2.1lfc/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 48 mentions in open access literature.

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

Scharpf BR, et al. (2025) Prostatic Escherichia coli infection drives CCR2-dependent recruitment of fibrocytes and collagen production. Disease models & mechanisms, 18(1).

Chen Y, et al. (2025) Macrophage-derived CTSS drives the age-dependent disruption of the blood-CSF barrier. Neuron, 113(7), 1082.

Westfall S, et al. (2025) A type 1 immune-stromal cell network mediates disease tolerance against intestinal infection. Cell, 188(12), 3135.

Wang C, et al. (2025) Gut microbe-derived metabolites drive psoriatic inflammation via modulation of skin Th17 cells. Immunity, 58(9), 2241.

Golomb SM, et al. (2025) Temporal dynamics of immune cell transcriptomics in brain metastasis progression influenced by gut microbiome dysbiosis. Cell reports, 44(3), 115356.

Li L, et al. (2025) A bladder-blood immune barrier constituted by suburothelial perivascular macrophages restrains uropathogen dissemination. Immunity, 58(3), 568.

Wang G, et al. (2025) In toto imaging shows intravascular proliferation promotes transmigration of daughter cells during brain invasion of Cryptococcus neoformans. Cell reports, 44(12), 116658.

Zawadzki ME, et al. (2025) Fluid-Niche and Microglial Signatures Prime Robust Intraventricular Macrophage Response to Blood During Brain Development. bioRxiv : the preprint server for biology.

Schwab AD, et al. (2024) Targeting transitioning lung monocytes/macrophages as treatment strategies in lung disease related to environmental exposures. Respiratory research, 25(1), 157.

Kou T, et al. (2024) RBP-J regulates homeostasis and function of circulating Ly6Clo monocytes. eLife, 12.

Rotterman TM, et al. (2024) Modulation of central synapse remodeling after remote peripheral injuries by the CCL2-CCR2 axis and microglia. Cell reports, 43(2), 113776.

Xu H, et al. (2024) The choroid plexus synergizes with immune cells during neuroinflammation. Cell, 187(18), 4946.

Lienard J, et al. (2023) Intragranuloma Accumulation and Inflammatory Differentiation of Neutrophils Underlie Mycobacterial ESX-1-Dependent Immunopathology. *mBio*, 14(2), e0276422.

Russo S, et al. (2023) Peripheral immune-derived matrix metalloproteinase promotes stress susceptibility. *Research square*.

Biram A, et al. (2022) Bacterial infection disrupts established germinal center reactions through monocyte recruitment and impaired metabolic adaptation. *Immunity*, 55(3), 442.

Huang SS, et al. (2021) Immune cell shuttle for precise delivery of nanotherapeutics for heart disease and cancer. *Science advances*, 7(17).

Kang B, et al. (2020) Commensal microbiota drive the functional diversification of colon macrophages. *Mucosal immunology*, 13(2), 216.

Carroll JA, et al. (2020) Prion protein N1 cleavage peptides stimulate microglial interaction with surrounding cells. *Scientific reports*, 10(1), 6654.

Dunbar PR, et al. (2020) Pulmonary monocytes interact with effector T cells in the lung tissue to drive TRM differentiation following viral infection. *Mucosal immunology*, 13(1), 161.

Vagnozzi RJ, et al. (2020) An acute immune response underlies the benefit of cardiac stem cell therapy. *Nature*, 577(7790), 405.