

Resource Summary Report

Generated by SPARC SAWG on Jul 29, 2026

B6.129P2(C)-Cx3cr1^{tm2.1}(cre/ERT)Jung/J

RRID:IMSR_JAX:020940

Type: Organism

Proper Citation

RRID:IMSR_JAX:020940

Organism Information

URL: <https://www.jax.org/strain/020940>

Proper Citation: RRID:IMSR_JAX:020940

Description: Mus musculus with name B6.129P2(C)-Cx3cr1^{tm2.1}(cre/ERT)Jung/J from IMSR.

Species: Mus musculus

Synonyms: B6.129P2(C)-Cx3cr1/J

Notes: gene symbol note: C-X3-C motif chemokine receptor 1|Cre recombinase and estrogen receptor 1 (human) fusion gene; mutant strain|congenic strain: Cx3cr1|cre/ERT2

Affected Gene: C-X3-C motif chemokine receptor 1|Cre recombinase and estrogen receptor 1 (human) fusion gene

Genomic Alteration: targeted mutation 2.1; Steffen Jung

Catalog Number: JAX:020940

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2(C)-Cx3cr1^{tm2.1}(cre/ERT)Jung/J

Record Creation Time: 20250513T053742+0000

Record Last Update: 20260725T044449+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2(C)-Cx3cr1^{tm2.1(cre/ERT)}Jung/J.

No alerts have been found for B6.129P2(C)-Cx3cr1^{tm2.1(cre/ERT)}Jung/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 89 mentions in open access literature.

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

Zeng F, et al. (2026) Microglia overexpressing brain-derived neurotrophic factor promote vascular repair and functional recovery in mice after spinal cord injury. *Neural regeneration research*, 21(1), 365.

Reyes EY, et al. (2025) Cryptococcus exploits delayed microglial activation, and microglial osteopontin/Spp1 impairs peripheral host control. *Cell host & microbe*, 33(12), 2067.

Bastos J, et al. (2025) Monocytes can efficiently replace all brain macrophages and fetal liver monocytes can generate bona fide SALL1+ microglia. *Immunity*, 58(5), 1269.

Zhou Z, et al. (2025) Microglial estrogen receptor 1 signal designates sexual dimorphism of AQP4 antibody-induced neuroinflammation and demyelination. *Cell reports*, 44(12), 116636.

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.

Feng R, et al. (2025) Single-cell spatial transcriptomic profiling defines a pathogenic inflammatory niche in chronic active multiple sclerosis lesions. *Immunity*, 58(12), 2989.

Yamasaki A, et al. (2025) Cyclin-dependent kinase inhibitor 1A mediates mouse line- and fate-dependent cellular responses in Cx3cr1-Cre genetic tools. *Cell reports*, 44(9), 116267.

Ni RJ, et al. (2025) Microglia-mediated inflammation and synaptic pruning contribute to sleep deprivation-induced mania in a sex-specific manner. *Translational psychiatry*, 15(1), 285.

McKinsey GL, et al. (2025) Radial glia integrin avb8 regulates cell autonomous microglial TGFβ1 signaling that is necessary for microglial identity. *Nature communications*, 16(1), 2840.

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.

Bedolla AM, et al. (2024) A comparative evaluation of the strengths and potential caveats of the microglial inducible CreER mouse models. *Cell reports*, 43(1), 113660.

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

Yin T, et al. (2024) Functional BRI2-TREM2 interactions in microglia: implications for Alzheimer's and related dementias. *EMBO reports*, 25(3), 1326.

Wang L, et al. (2024) CCR2⁺ monocytes replenish border-associated macrophages in the diseased mouse brain. *Cell reports*, 43(4), 114120.

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.

Scott-Hewitt N, et al. (2024) Microglial-derived C1q integrates into neuronal ribonucleoprotein complexes and impacts protein homeostasis in the aging brain. *Cell*, 187(16), 4193.

Rosmus DD, et al. (2024) Redefining the ontogeny of hyalocytes as yolk sac-derived tissue-resident macrophages of the vitreous body. *Journal of neuroinflammation*, 21(1), 168.

Codocedo JF, et al. (2024) Therapeutic targeting of immunometabolism reveals a critical reliance on hexokinase 2 dosage for microglial activation and Alzheimer's progression. *Cell reports*, 43(7), 114488.

Amoedo-Leite C, et al. (2024) Macrophages upregulate mural cell-like markers and support healing of ischemic injury by adopting functions important for vascular support. *Nature cardiovascular research*, 3(6), 685.

Garcia-Bonilla L, et al. (2024) Analysis of brain and blood single-cell transcriptomics in acute and subacute phases after experimental stroke. *Nature immunology*, 25(2), 357.