

Resource Summary Report

Generated by [NIF](#) on Sep 15, 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: 20260912T060527+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 97 mentions in open access literature.

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

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.

Doty ME, et al. (2026) Myelin sheaths persist for weeks following axon degeneration. *Science advances*, 12(10), eaeb2628.

Adler D, et al. (2026) Activity-dependent protein synthesis in neurons requires microglial-metabolic coupling. *Cell metabolism*.

Tavares GA, et al. (2026) Macrophage-mediated refinement of the dural lymphatic regulates social behavior. *Neuron*.

Babcock IW, et al. (2026) Enhancing the specificity of microglia genetic targeting using a CSF1R inhibitor. *Cell reports*, 45(6), 117411.

Ai D, et al. (2026) Depletion of CX3CR1⁺ macrophages results in disrupted functionality and immune surveillance within epididymis and testis. *Mucosal immunology*, 19(2), 1889.

Xu Z, et al. (2026) Unbiased niche labeling maps immune-excluded niche in bone metastasis. *Cell*, 189(11), 3287.

Distéfano-Gagné F, et al. (2026) Multi-tier signaling and chromatin remodeling coordinate microglia inflammatory states and activities associated with demyelination. *Cell reports*, 45(7), 117569.

Qian J, et al. (2026) Disease-associated microglia adopt stage-specific phenotypes that regulate T cell fate and immunity in glioma. *Immunity*.

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.

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.

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.

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.

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

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.

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.

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.