

Resource Summary Report

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

B6.129P2(Cg)-Cx3cr1^{tm2.1(cre/ERT2)}Litt/WganJ

RRID:IMSR_JAX:021160

Type: Organism

Proper Citation

RRID:IMSR_JAX:021160

Organism Information

URL: <https://www.jax.org/strain/021160>

Proper Citation: RRID:IMSR_JAX:021160

Description: Mus musculus with name B6.129P2(Cg)-Cx3cr1^{tm2.1(cre/ERT2)}Litt/WganJ from IMSR.

Species: Mus musculus

Synonyms: B6.129P2(Cg)-Cx3cr1/WganJ. B6.129P2(Cg)-Cx3cr1/WganJ

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; Dan R Littman

Catalog Number: JAX:021160

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2(Cg)-Cx3cr1^{tm2.1(cre/ERT2)}Litt/WganJ

Record Creation Time: 20250513T053742+0000

Record Last Update: 20260725T044450+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2(Cg)-Cx3cr1^{tm2.1(cre/ERT2)}Litt/WganJ.

No alerts have been found for B6.129P2(Cg)-Cx3cr1^{tm2.1(cre/ERT2)}Litt/WganJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 170 mentions in open access literature.

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

Déchelle-Marquet PA, et al. (2025) Macrophage expression of P2X7 controls autoimmune uveitis. *Journal of neuroinflammation*, 22(1), 212.

Ewing-Crystal NA, et al. (2025) Dynamic fibroblast-immune interactions shape recovery after brain injury. *Nature*, 646(8086), 934.

Shea JM, et al. (2025) Microglia aging in the hippocampus advances through intermediate states that drive activation and cognitive decline. *eLife*, 13.

Yi MH, et al. (2025) Optogenetic activation of cortical microglia promotes neuronal activity and pain hypersensitivity. *Cell reports*, 44(5), 115717.

Kim DV, et al. (2025) E. coli-activated cellular circuit restrains intestinal inflammatory microbiota-specific T cells and protects against colitis. *Cell reports*, 44(10), 116332.

Faust TE, et al. (2025) Microglia-astrocyte crosstalk regulates synapse remodeling via Wnt signaling. *Cell*.

Shafiq S, et al. (2025) Microglial deficiency in the ATRX chromatin remodeler elicits a viral mimicry immune response that impacts neuronal function and behavior. *PLoS biology*, 23(9), e3002659.

Fan CY, et al. (2025) Divergent sex-specific pannexin-1 mechanisms in microglia and T cells underlie neuropathic pain. *Neuron*, 113(6), 896.

Martín-Ávila A, et al. (2025) Clearing truncated tau protein restores neuronal function and prevents microglia activation in tauopathy mice. *Cell reports*, 44(10), 116291.

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.

Qin T, et al. (2025) Treg-microglia partnership in the injured spinal cord preserves Treg cell function and regulates microglial cholesterol metabolism. *Neuron*.

Jung H, et al. (2025) The NLRP3 inflammasome in microglia regulates repetitive behavior by modulating NMDA glutamate receptor functions. *Cell reports*, 44(5), 115656.

Zuo Y, et al. (2025) Monocyte-derived cells promote transient insult-induced brain injury by enhancing CD8⁺ T cell response. *Cell reports*, 44(11), 116528.

Flury A, et al. (2025) A neurodegenerative cellular stress response linked to dark microglia and toxic lipid secretion. *Neuron*, 113(4), 554.

Rodriguez-Baena FJ, et al. (2025) Microglial reprogramming enhances antitumor immunity and immunotherapy response in melanoma brain metastases. *Cancer cell*, 43(3), 413.

Vicario R, et al. (2025) Role of clonal inflammatory microglia in histiocytosis-associated neurodegeneration. *Neuron*, 113(7), 1065.

Murali SV, et al. (2025) CX3CR1 Fate-Mapping In Vivo Distinguishes Cochlear Resident and Recruited Macrophages After Acoustic Trauma. *bioRxiv : the preprint server for biology*.

Rodriguez-Baena FJ, et al. (2025) Protocol for generation, quantification, and phenotyping of brain metastases in preclinical mouse models. *STAR protocols*, 6(3), 103978.

Aisenberg WH, et al. (2025) Direct microglia replacement reveals pathologic and therapeutic contributions of brain macrophages to a monogenic neurological disease. *Immunity*, 58(5), 1254.

Zhang Z, et al. (2025) Prenatal electroacupuncture modulates maternal-fetal immune activation via a brain-to-splenic signal. *Cell reports*, 44(11), 116576.