

Resource Summary Report

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

B6.129P2-Cxcr4^{tm2Yzo/J}

RRID:IMSR_JAX:008767

Type: Organism

Proper Citation

RRID:IMSR_JAX:008767

Organism Information

URL: <https://www.jax.org/strain/008767>

Proper Citation: RRID:IMSR_JAX:008767

Description: Mus musculus with name B6.129P2-Cxcr4^{tm2Yzo/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: C-X-C motif chemokine receptor 4; congenic strain: Cxcr4

Affected Gene: C-X-C motif chemokine receptor 4

Genomic Alteration: targeted mutation 2; Yong-Rui Zou

Catalog Number: JAX:008767

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2-Cxcr4^{tm2Yzo/J}

Record Creation Time: 20250513T053711+0000

Record Last Update: 20260725T044422+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2-Cxcr4^{tm2Yzo/J}.

No alerts have been found for B6.129P2-Cxcr4^{tm2Yzo/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Qian J, et al. (2025) A CXCR4 partial agonist improves immunotherapy by targeting immunosuppressive neutrophils and cancer-driven granulopoiesis. *Cancer cell*, 43(8), 1512.

Petzold T, et al. (2022) Neutrophil "plucking" on megakaryocytes drives platelet production and boosts cardiovascular disease. *Immunity*, 55(12), 2285.

Shams AS, et al. (2022) The chemokine receptor CXCR4 regulates satellite cell activation, early expansion, and self-renewal, in response to skeletal muscle injury. *Frontiers in cell and developmental biology*, 10, 949532.

D'Amato G, et al. (2022) Endocardium-to-coronary artery differentiation during heart development and regeneration involves sequential roles of Bmp2 and Cxcl12/Cxcr4. *Developmental cell*, 57(22), 2517.

Ridge LA, et al. (2021) Dual role for CXCL12 signaling in semilunar valve development. *Cell reports*, 36(8), 109610.

Whitman MC, et al. (2018) Loss of CXCR4/CXCL12 Signaling Causes Oculomotor Nerve Misrouting and Development of Motor Trigeminal to Oculomotor Synkinesis. *Investigative ophthalmology & visual science*, 59(12), 5201.

Thion MS, et al. (2018) Microbiome Influences Prenatal and Adult Microglia in a Sex-Specific Manner. *Cell*, 172(3), 500.

Chung L, et al. (2018) Bacteroides fragilis Toxin Coordinates a Pro-carcinogenic Inflammatory Cascade via Targeting of Colonic Epithelial Cells. *Cell host & microbe*, 23(2), 203.

Hirata Y, et al. (2018) CD150^{high} Bone Marrow Tregs Maintain Hematopoietic Stem Cell Quiescence and Immune Privilege via Adenosine. *Cell stem cell*, 22(3), 445.

Pedone E, et al. (2017) Modeling Dynamics and Function of Bone Marrow Cells in Mouse Liver Regeneration. *Cell reports*, 18(1), 107.

Evans AE, et al. (2016) New Insights into Mechanisms and Functions of Chemokine (C-X-C Motif) Receptor 4 Heteromerization in Vascular Smooth Muscle. *International journal of molecular sciences*, 17(5).

Chong SZ, et al. (2016) CXCR4 identifies transitional bone marrow premonocytes that replenish the mature monocyte pool for peripheral responses. *The Journal of experimental medicine*, 213(11), 2293.