

Resource Summary Report

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

B6.Cg-Tg(Prrx1-cre)1Cjt/J

RRID:IMSR_JAX:005584

Type: Organism

Proper Citation

RRID:IMSR_JAX:005584

Organism Information

URL: <https://www.jax.org/strain/005584>

Proper Citation: RRID:IMSR_JAX:005584

Description: Mus musculus with name B6.Cg-Tg(Prrx1-cre)1Cjt/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 1; Clifford J Tabin|paired related homeobox 1|; mutant strain|congenic strain: Tg(Prrx1-cre)1Cjt|Prrx1|

Affected Gene: transgene insertion 1; Clifford J Tabin|paired related homeobox 1|

Genomic Alteration: transgene insertion 1; Clifford J Tabin

Catalog Number: JAX:005584

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Prrx1-cre)1Cjt/J

Record Creation Time: 20250513T053650+0000

Record Last Update: 20260725T044401+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Prrx1-cre)1Cjt/J.

No alerts have been found for B6.Cg-Tg(Prrx1-cre)1Cjt/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 50 mentions in open access literature.

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

Zhang F, et al. (2025) The ESCRT protein CHMP5 restricts bone formation by controlling endolysosome-mitochondrion-mediated cell senescence. *eLife*, 13.

Wu S, et al. (2025) Merlin controls limb development and thumb formation by regulating primary cilium-hedgehog signaling. *Cell reports*, 44(6), 115849.

Higaki K, et al. (2025) Universal fibroblasts across tissues can differentiate into niche cells for hematopoietic stem cells. *Cell reports*, 44(5), 115620.

Li Q, et al. (2025) Stromal Cell-Mast Cell Communication Orchestrates Anti-Viral Immunity in the Meninges. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), e14842.

Nakanishi Y, et al. (2024) Semaphorin 6D tunes amygdalar circuits for emotional, metabolic, and inflammatory outputs. *Neuron*, 112(17), 2955.

Hann SH, et al. (2024) Depletion of SMN protein in mesenchymal progenitors impairs the development of bone and neuromuscular junction in spinal muscular atrophy. *eLife*, 12.

Zhang Z, et al. (2024) CYP7B1-mediated 25-hydroxycholesterol degradation maintains quiescence-activation balance and improves therapeutic potential of mesenchymal stem cells. *Cell chemical biology*.

Gao L, et al. (2024) Hematopoietic stem cell niche generation and maintenance are distinguishable by an epitranscriptomic program. *Cell*, 187(11), 2801.

Liu YL, et al. (2024) Fibrous periosteum repairs bone fracture and maintains the healed bone throughout mouse adulthood. *Developmental cell*, 59(9), 1192.

Perrin S, et al. (2024) Single-nucleus transcriptomics reveal the differentiation trajectories of periosteal skeletal/stem progenitor cells in bone regeneration. *eLife*, 13.

Yoo K, et al. (2024) Muscle-resident mesenchymal progenitors sense and repair peripheral nerve injury via the GDNF-BDNF axis. *eLife*, 13.

Zhang F, et al. (2023) NFATc1 marks articular cartilage progenitors and negatively determines articular chondrocyte differentiation. *eLife*, 12.

Kara N, et al. (2023) Endothelial and Leptin Receptor+ cells promote the maintenance of stem cells and hematopoiesis in early postnatal murine bone marrow. *Developmental cell*,

58(5), 348.

Gong Y, et al. (2023) Loss of RanGAP1 drives chromosome instability and rapid tumorigenesis of osteosarcoma. *Developmental cell*, 58(3), 192.

Brent AE, et al. (2023) Evolutionary assembly and disassembly of the mammalian sternum. *Current biology : CB*, 33(1), 197.

Zhang S, et al. (2023) Opioid growth factor receptor promotes adipose tissue thermogenesis via enhancing lipid oxidation. *Life metabolism*, 2(3), load018.

Meng X, et al. (2023) Stromal cell-derived NGF controls sympathetic innervation in subcutaneous fat. *Journal of lipid research*, 64(2), 100264.

Liu Z, et al. (2022) RANKL inhibition halts lesion progression and promotes bone remineralization in mice with fibrous dysplasia. *Bone*, 156, 116301.

Tseng HW, et al. (2022) Spinal cord injury reprograms muscle fibroadipogenic progenitors to form heterotopic bones within muscles. *Bone research*, 10(1), 22.

Troka I, et al. (2022) Effect of Menin Deletion in Early Osteoblast Lineage on the Mineralization of an In Vitro 3D Osteoid-like Dense Collagen Gel Matrix. *Biomimetics (Basel, Switzerland)*, 7(3).