

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

B6.129(Cg)-Lepr^{tm2(cre)}Rck/J

RRID:IMSR_JAX:008320

Type: Organism

Proper Citation

RRID:IMSR_JAX:008320

Organism Information

URL: <https://www.jax.org/strain/008320>

Proper Citation: RRID:IMSR_JAX:008320

Description: Mus musculus with name B6.129(Cg)-Lepr^{tm2(cre)}Rck/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: leptin receptor|; mutant strain|congenic strain: Lepr|

Affected Gene: leptin receptor|

Genomic Alteration: targeted mutation 2; Jeffrey M Friedman

Catalog Number: JAX:008320

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129(Cg)-Lepr^{tm2(cre)}Rck/J

Record Creation Time: 20250513T053707+0000

Record Last Update: 20260725T044419+0000

Ratings and Alerts

No rating or validation information has been found for B6.129(Cg)-Lepr^{tm2(cre)}Rck/J.

No alerts have been found for B6.129(Cg)-Lepr^{tm2(cre)}Rck/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 44 mentions in open access literature.

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

Kobayashi H, et al. (2025) Neuro-Mesenchymal Interaction Mediated by a α 2-Adrenergic Nerve Growth Factor Feedforward Loop Promotes Colorectal Cancer Progression. *Cancer discovery*, 15(1), 202.

Ge X, et al. (2024) Overexpression of forebrain PTP1B leads to synaptic and cognitive impairments in obesity. *Brain, behavior, and immunity*, 117, 456.

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

Tavares MR, et al. (2024) Growth Hormone Receptor in Lateral Hypothalamic Neurons Is Required for Increased Food-Seeking Behavior during Food Restriction in Male Mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(47).

Ramalingam P, et al. (2023) Restoring bone marrow niche function rejuvenates aged hematopoietic stem cells by reactivating the DNA Damage Response. *Nature communications*, 14(1), 2018.

Oka H, et al. (2023) Subset of the periodontal ligament expressed leptin receptor contributes to part of hard tissue-forming cells. *Scientific reports*, 13(1), 3442.

Zhang W, et al. (2023) Bone Metastasis Initiation Is Coupled with Bone Remodeling through Osteogenic Differentiation of NG2+ Cells. *Cancer discovery*, 13(2), 474.

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.

Tang Q, et al. (2023) Leptin receptor neurons in the dorsomedial hypothalamus input to the circadian feeding network. *Science advances*, 9(34), eadh9570.

Wang Q, et al. (2023) Regional and cell-type-specific afferent and efferent projections of the mouse claustrum. *Cell reports*, 42(2), 112118.

Zhang X, et al. (2023) Harnessing matrix stiffness to engineer a bone marrow niche for hematopoietic stem cell rejuvenation. *Cell stem cell*, 30(4), 378.

Miyagi S, et al. (2022) Generation of a BAC transgenic mouse strain that expresses CreERT and a fluorescent protein under the transcriptional control of the *Fzd5* locus.

Inflammation and regeneration, 42(1), 6.

Kakava-Georgiadou N, et al. (2022) Molecular profile and response to energy deficit of leptin-receptor neurons in the lateral hypothalamus. *Scientific reports*, 12(1), 13374.

Fielding C, et al. (2022) Cholinergic signals preserve haematopoietic stem cell quiescence during regenerative haematopoiesis. *Nature communications*, 13(1), 543.

Gadomski S, et al. (2022) A cholinergic neuroskeletal interface promotes bone formation during postnatal growth and exercise. *Cell stem cell*, 29(4), 528.

Valet C, et al. (2022) Sepsis promotes splenic production of a protective platelet pool with high CD40 ligand expression. *The Journal of clinical investigation*, 132(7).

Emoto T, et al. (2022) Colony stimulating factor-1 producing endothelial cells and mesenchymal stromal cells maintain monocytes within a perivascular bone marrow niche. *Immunity*, 55(5), 862.

Ng KJ, et al. (2022) Sox2 in the dermal papilla regulates hair follicle pigmentation. *Cell reports*, 40(3), 111100.

Yu H, et al. (2022) A Neural Circuit Mechanism Controlling Breathing by Leptin in the Nucleus Tractus Solitarii. *Neuroscience bulletin*, 38(2), 149.

Long JT, et al. (2022) Hypertrophic chondrocytes serve as a reservoir for marrow-associated skeletal stem and progenitor cells, osteoblasts, and adipocytes during skeletal development. *eLife*, 11.