Resource Summary Report

Generated by dkNET on Sep 21, 2026

B6.129P2-Lepr^{tm1Rck}/J

RRID:IMSR_JAX:008327
Type: Organism

Proper Citation

RRID:IMSR_JAX:008327

Organism Information

URL: https://www.jax.org/strain/008327

Proper Citation: RRID:IMSR_JAX:008327

Description: Mus musculus with name B6.129P2-Lepr^{tm1Rck}/J from IMSR.

Species: Mus musculus

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

Affected Gene: leptin receptor

Genomic Alteration: targeted mutation 1; Jeffrey M Friedman

Catalog Number: JAX:008327

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129P2-Lepr^{tm1Rck}/J

Record Creation Time: 20250513T053708+0000

Record Last Update: 20260919T054856+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2-Lepr^{tm1Rck}/J.

No alerts have been found for B6.129P2-Lepr^{tm1Rck}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 13 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Shen Q, et al. (2026) FGF21 synergizes with leptin to counteract obesity-related metabolic comorbidities by reversing hepatic leptin resistance. Cell metabolism.

Hao Y, et al. (2026) Circuit Mechanisms Underlying the Contribution of Leptin Receptor-Expressing Neurons in the Nucleus Tractus Solitarius to Ventilatory Homeostasis. Neuroscience bulletin.

Solheim MH, et al. (2025) Hypothalamic PNOC/NPY neurons constitute mediators of leptin-controlled energy homeostasis. Cell, 188(13), 3550.

Cordeiro B, et al. (2024) Obesity intensifies sex-specific interferon signaling to selectively worsen central nervous system autoimmunity in females. Cell metabolism, 36(10), 2298.

Sundaram VK, et al. (2023) Adipo-glial signaling mediates metabolic adaptation in peripheral nerve regeneration. Cell metabolism, 35(12), 2136.

Jiang L, et al. (2021) Characterization of Leptin Receptor+ Stromal Cells in Lymph Node. Frontiers in immunology, 12, 730438.

Gruber T, et al. (2021) Obesity-associated hyperleptinemia alters the gliovascular interface of the hypothalamus to promote hypertension. Cell metabolism, 33(6), 1155.

Butiaeva LI, et al. (2021) Leptin receptor-expressing pericytes mediate access of hypothalamic feeding centers to circulating leptin. Cell metabolism, 33(7), 1433.

Ren Z, et al. (2020) Conditional knockout of leptin receptor in neural stem cells leads to obesity in mice and affects neuronal differentiation in the hypothalamus early after birth. Molecular brain, 13(1), 109.

Rivadeneira DB, et al. (2019) Oncolytic Viruses Engineered to Enforce Leptin Expression Reprogram Tumor-Infiltrating T Cell Metabolism and Promote Tumor Clearance. Immunity, 51(3), 548.

Yoo S, et al. (2019) Tanycyte-Independent Control of Hypothalamic Leptin Signaling. Frontiers in neuroscience, 13, 240.

Matoba K, et al. (2017) Leptin sustains spontaneous remyelination in the adult central nervous system. Scientific reports, 7, 40397.

Shen M, et al. (2016) Mesolimbic leptin signaling negatively regulates cocaine-conditioned reward. Translational psychiatry, 6(12), e972.