

Resource Summary Report

Generated by [nidm-terms](#) on Jul 30, 2026

B6.Cg-Lep^{ob}/J

RRID:IMSR_JAX:000632

Type: Organism

Proper Citation

RRID:IMSR_JAX:000632

Organism Information

URL: <https://www.jax.org/strain/000632>

Proper Citation: RRID:IMSR_JAX:000632

Description: Mus musculus with name B6.Cg-Lep^{ob}/J from IMSR.

Species: Mus musculus

Synonyms: B6.V-Lep/J. C57BL/6J-Lep. C57BL/6J-Lep/+

Notes: gene symbol note: leptin; mutant strain|congenic strain: Lep

Affected Gene: leptin

Genomic Alteration: obese

Catalog Number: JAX:000632

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Lep^{ob}/J

Record Creation Time: 20250513T053619+0000

Record Last Update: 20260725T044328+0000

Ratings and Alerts

- Used for humanized mouse by the Human Islet Research Network community.
Contact(s): [Kevan Herold](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for B6.Cg-Lep^{ob}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 202 mentions in open access literature.

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

Schmidt A, et al. (2026) Gas plasma therapy of murine and human diabetic wounds is associated with junctional and hippo signaling and oxidative protein modifications. Redox biology, 89, 103951.

Wang X, et al. (2025) Assessing Wound Healing in Vivo Using a Dual-Function Phosphorescent Probe Sensitive to Tissue Oxygenation and Regenerating Collagen. ACS applied materials & interfaces, 17(1), 398.

Xiao L, et al. (2025) Divergent roles of m6A in orchestrating brown and white adipocyte transcriptomes and systemic metabolism. Nature communications, 16(1), 533.

Gou Y, et al. (2025) AgRP neuron hyperactivity drives hyperglycemia in a mouse model of type 2 diabetes. The Journal of clinical investigation, 135(10).

Medharametla S, et al. (2025) Abnormalities in the genioglossus muscle and its neuromuscular synapse in leptin-deficient male mice. Skeletal muscle, 15(1), 18.

Hof A, et al. (2025) Myeloperoxidase impacts vascular function by altering perivascular adipocytes' secretome and phenotype in obesity. Cell reports. Medicine, 6(5), 102087.

Olou AA, et al. (2025) Ototoxic impacts of adipose-derived extracts on a murine auditory cell line: molecular insights from proteomic analyses. International journal of obesity (2005), 49(12), 2549.

Sáenz de Miera C, et al. (2025) Nutritionally responsive PMv DAT neurons are dynamically regulated during pubertal transition. bioRxiv : the preprint server for biology.

Montazerian H, et al. (2025) Boosting hydrogel conductivity via water-dispersible conducting polymers for injectable bioelectronics. Nature communications, 16(1), 3755.

Park BI, et al. (2025) Hyperinsulinemia-induced upregulation of adipocyte TPH2 contributes to peripheral serotonin production, metabolic dysfunction, and obesity. The Journal of clinical investigation, 135(14).

Steinhauser S, et al. (2025) The transcription factor ZNF469 regulates collagen production in liver fibrosis. *JCI insight*, 10(7).

Cui C, et al. (2025) β cells use both PC1/3 and PC2 to process proglucagon peptides and control insulin secretion. *Science advances*, 11(38), eady8048.

Li H, et al. (2025) An alternative neural basis underlying leptin resistance. *Cell reports*, 44(7), 115863.

Fang H, et al. (2025) Gut substrate trap of D-lactate from microbiota improves blood glucose and fatty liver disease in obese mice. *Cell metabolism*, 37(9), 1806.

Jo S, et al. (2025) Oral TIX100 protects against obesity-associated glucose intolerance and diet-induced adiposity. *Diabetes, obesity & metabolism*, 27(4), 2223.

Noh MC, et al. (2025) A molecular and spinal circuit basis for the functional segregation of itch and pain. *bioRxiv : the preprint server for biology*.

Jankowski CSR, et al. (2025) Aged mice exhibit widespread metabolic changes but preserved major fluxes. *Cell metabolism*, 37(11), 2280.

Yuan B, et al. (2025) An organism-level quantitative flux model of energy metabolism in mice. *Cell metabolism*, 37(4), 1012.

Galanopoulou O, et al. (2024) Endonucleosis mediates internalization of cytoplasm into the nucleus. *Nature communications*, 15(1), 5843.

Surico PL, et al. (2024) Effects of Diabetes Mellitus on Corneal Immune Cell Activation and the Development of Keratopathy. *Cells*, 13(6).