Resource Summary Report

Generated by nidm-terms on Aug 11, 2026

BTBR.Cg-Lep^{ob}/WiscJ

RRID:IMSR_JAX:004824
Type: Organism

Proper Citation

RRID:IMSR_JAX:004824

Organism Information

URL: https://www.jax.org/strain/004824

Proper Citation: RRID:IMSR_JAX:004824

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

Species: Mus musculus

Synonyms: BTBR.V(B6)-Lep/WiscJ

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

Affected Gene: leptin

Genomic Alteration: obese

Catalog Number: JAX:004824

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: BTBR.Cg-Lep^{ob}/WiscJ

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260808T050848+0000

Ratings and Alerts

No rating or validation information has been found for BTBR.Cg-Lep^{ob}/WiscJ.

No alerts have been found for BTBR.Cg-Lep^{ob}/WiscJ.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Soto-Catalán M, et al. (2026) SOCS1-based therapeutic peptides improve liver disease and metabolic dysfunction in obesity and diabetes. Scientific reports, 16(1).

Aguilar-Cartes M, et al. (2026) SOCS1 Mimetic Peptide Enhances Empagliflozin Improvement on Kidney Damage in the Type 2 Diabetes Mouse Model BTBR ob/ob. International journal of molecular sciences, 27(5).

Subramanian A, et al. (2024) Protective role for kidney TREM2high macrophages in obesity- and diabetes-induced kidney injury. Cell reports, 43(6), 114253.

Siegerist F, et al. (2024) The role of the tricellular junction protein ILDR2 in glomerulopathies: Expression patterns and functional insights. iScience, 27(12), 111329.

Opazo-Ríos L, et al. (2022) Meta-Inflammation and De Novo Lipogenesis Markers Are Involved in Metabolic Associated Fatty Liver Disease Progression in BTBR ob/ob Mice. International journal of molecular sciences, 23(7).

Sávio-Silva C, et al. (2021) Therapeutic Potential of Mesenchymal Stem Cells in a Pre-Clinical Model of Diabetic Kidney Disease and Obesity. International journal of molecular sciences, 22(4).

De Bruyne S, et al. (2021) A Potential Role for Fructosamine-3-Kinase in Cataract Treatment. International journal of molecular sciences, 22(8).

Opazo-Ríos L, et al. (2020) Anti-inflammatory, antioxidant and renoprotective effects of SOCS1 mimetic peptide in the BTBR ob/ob mouse model of type 2 diabetes. BMJ open diabetes research & care, 8(1).

Reichelt-Wurm S, et al. (2019) Glomerular expression pattern of long non-coding RNAs in the type 2 diabetes mellitus BTBR mouse model. Scientific reports, 9(1), 9765.

Hinder LM, et al. (2017) Dietary reversal of neuropathy in a murine model of prediabetes and metabolic syndrome. Disease models & mechanisms, 10(6), 717.