

# Resource Summary Report

Generated by [NIF](#) on Sep 17, 2026

## BTBR.Cg-Lep<sup>ob</sup>/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<sup>ob</sup>/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<sup>ob</sup>/WiscJ

**Record Creation Time:** 20250513T053646+0000

**Record Last Update:** 20260912T060431+0000

### Ratings and Alerts

No rating or validation information has been found for BTBR.Cg-Lep<sup>ob</sup>/WiscJ.

No alerts have been found for BTBR.Cg-Lep<sup>ob</sup>/WiscJ.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 10 mentions in open access literature.

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

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 TREM2<sup>high</sup> 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.