

Resource Summary Report

Generated by T1D on Sep 6, 2026

B6(Cg)-Ins1^{tm2.1(cre/ERT2)}Thor/J

RRID:IMSR_JAX:026802

Type: Organism

Proper Citation

RRID:IMSR_JAX:026802

Organism Information

URL: <https://www.jax.org/strain/026802>

Proper Citation: RRID:IMSR_JAX:026802

Description: Mus musculus with name B6(Cg)-Ins1^{tm2.1(cre/ERT2)}Thor/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: insulin I|Cre recombinase and estrogen receptor 1 (human) fusion gene; mutant strain: Ins1|cre/ERT2

Affected Gene: insulin I|Cre recombinase and estrogen receptor 1 (human) fusion gene

Genomic Alteration: targeted mutation 2.1; Bernard Thorens

Catalog Number: JAX:026802

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6(Cg)-Ins1^{tm2.1(cre/ERT2)}Thor/J

Record Creation Time: 20250513T053758+0000

Record Last Update: 20260905T044536+0000

Ratings and Alerts

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

No alerts have been found for B6(Cg)-Ins1^{tm2.1(cre/ERT2)Thor/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Zhou YD, et al. (2026) Tissue-specific tolerance mechanisms and lymph node co-drainage shape T cell immunity in the upper digestive system and pancreatic cancer progression. Cell reports, 45(5), 117324.

Visa M, et al. (2024) Sex-dependent intra-islet structural rearrangements affecting alpha-to-beta cell interactions lead to adaptive enhancements of Ca²⁺ dynamics in prediabetic beta cells. Diabetologia, 67(8), 1663.

Zhang X, et al. (2022) IL18 signaling causes islet β cell development and insulin secretion via different receptors on acinar and β cells. Developmental cell, 57(12), 1496.

Shin JH, et al. (2022) The gut peptide Reg3g links the small intestine microbiome to the regulation of energy balance, glucose levels, and gut function. Cell metabolism, 34(11), 1765.

Nasteska D, et al. (2021) PDX1^{LOW} MAFALOW β -cells contribute to islet function and insulin release. Nature communications, 12(1), 674.

Mosleh E, et al. (2020) Ins1-Cre and Ins1-CreER Gene Replacement Alleles Are Susceptible To Silencing By DNA Hypermethylation. Endocrinology, 161(8).