

Resource Summary Report

Generated by [NIF](#) on Aug 2, 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: Cre recombinase and estrogen receptor 1 (human) fusion gene|insulin I; mutant strain: cre/ERT2|Ins1

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

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: 20260801T050508+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 5 mentions in open access literature.

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

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).