

Resource Summary Report

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Insulin-CreER (Tg(RIP-Cre/ESR1)Ydor)

RRID:BCBC_206

Type: Organism

Proper Citation

RRID:BCBC_206

Organism Information

URL:

Proper Citation: RRID:BCBC_206

Description: A transgenic mouse expression tamoxifen-inducible Cre recombinase under rat insulin promoter. Upon the injection of tamoxifen, loxP-flanked DNA sequences in beta cells will be deleted.

Species: Mus musculus

Notes: A transgenic mouse expression tamoxifen-inducible Cre recombinase under rat insulin promoter. Upon the injection of tamoxifen, loxP-flanked DNA sequences in beta cells will be deleted.

Phenotype: Diabetes mellitus

Catalog Number: 206

Background: TG

Database: BCBC, Beta Cell Biology Consortium

Database Abbreviation: BCBC

Organism Name: Insulin-CreER (Tg(RIP-Cre/ESR1)Ydor)

Record Creation Time: 20230226T042341+0000

Record Last Update: 20260815T181824+0000

Ratings and Alerts

No rating or validation information has been found for Insulin-CreER (Tg(RIP-Cre/ESR1)Ydor).

No alerts have been found for Insulin-CreER (Tg(RIP-Cre/ESR1)Ydor).

Data and Source Information

Source: [Integrated Animals](#)

Source Database: BCBC, Beta Cell Biology Consortium

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Kubota S, et al. (2026) ChREBP drives β -cell proliferation under metabolic stress but not in pregnancy-induced β -cell expansion. *Journal of diabetes investigation*, 17(6), 938.

King BC, et al. (2026) Beta-cell-specific C3 deficiency exacerbates metabolic dysregulation and insulin resistance in obesity. *Molecular metabolism*, 103, 102302.

Ding L, et al. (2024) Beta-Cell Tipe1 Orchestrates Insulin Secretion and Cell Proliferation by Promoting G β s/cAMP Signaling via USP5. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 11(16), e2304940.

Haemmerle MW, et al. (2024) RNA-binding protein PCBP2 regulates pancreatic β cell function and adaptation to glucose. *The Journal of clinical investigation*, 134(12).

Yang Y, et al. (2024) The mitochondrial enzyme pyruvate carboxylase restricts pancreatic β -cell senescence by blocking p53 activation. *Proceedings of the National Academy of Sciences of the United States of America*, 121(44), e2401218121.

Hill TG, et al. (2024) Loss of electrical β -cell to β -cell coupling underlies impaired hypoglycaemia-induced glucagon secretion in type-1 diabetes. *Nature metabolism*, 6(11), 2070.

Akai R, et al. (2024) Partial limitation of cellular functions and compensatory modulation of unfolded protein response pathways caused by double-knockout of ATF6 β and ATF6 γ . *Cell stress & chaperones*, 29(1), 34.

Shi S, et al. (2024) PGC-1 β -Coordinated Hypothalamic Antioxidant Defense Is Linked to SP1-LanCL1 Axis during High-Fat-Diet-Induced Obesity in Male Mice. *Antioxidants (Basel, Switzerland)*, 13(2).

Iwamoto T, et al. (2023) Inhibition of Insulin Secretion Induces Golgi Morphological Changes. *Juntendo Iji zasshi = Juntendo medical journal*, 69(1), 42.

Han M, et al. (2023) Luteolin Protects Pancreatic β Cells against Apoptosis through Regulation of Autophagy and ROS Clearance. *Pharmaceuticals* (Basel, Switzerland), 16(7).

Ishii T, et al. (2023) Membrane protease prostasin promotes insulin secretion by regulating the epidermal growth factor receptor pathway. *Scientific reports*, 13(1), 9086.

Chen Y, et al. (2023) Metabolic intervention by low carbohydrate diet suppresses the onset and progression of neuroendocrine tumors. *Cell death & disease*, 14(9), 597.

Zammit NW, et al. (2023) RELA governs a network of islet-specific metabolic genes necessary for beta cell function. *Diabetologia*, 66(8), 1516.

Kohata M, et al. (2022) Roles of FoxM1-driven basal β -cell proliferation in maintenance of β -cell mass and glucose tolerance during adulthood. *Journal of diabetes investigation*, 13(10), 1666.

Coppola I, et al. (2021) Differential Effects of Furin Deficiency on Insulin Receptor Processing and Glucose Control in Liver and Pancreatic β Cells of Mice. *International journal of molecular sciences*, 22(12).

Zhu K, et al. (2020) Kindlin-2 modulates MafA and β -catenin expression to regulate β -cell function and mass in mice. *Nature communications*, 11(1), 484.

Zhang F, et al. (2020) Obesity-induced overexpression of miR-802 impairs insulin transcription and secretion. *Nature communications*, 11(1), 1822.

Lu TT, et al. (2018) The Polycomb-Dependent Epigenome Controls β Cell Dysfunction, Dedifferentiation, and Diabetes. *Cell metabolism*, 27(6), 1294.

Lanuza-Masdeu J, et al. (2013) In vivo JNK activation in pancreatic β -cells leads to glucose intolerance caused by insulin resistance in pancreas. *Diabetes*, 62(7), 2308.

Kalis M, et al. (2011) Beta-cell specific deletion of Dicer1 leads to defective insulin secretion and diabetes mellitus. *PloS one*, 6(12), e29166.