

Resource Summary Report

Generated by [dkNET](#) on Sep 7, 2026

Beta-TC-6

RRID:CVCL_0605

Type: Cell Line

Proper Citation

CLS Cat# 305181, RRID:CVCL_0605

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0605

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Description: Cell line Beta-TC-6 is a Transformed cell line with a species of origin Mus musculus (Mouse)

Disease: Mouse insulinoma

Defining Citation: [PMID:7533732](#), [PMID:7958492](#), [PMID:8697299](#)

Comments: Characteristics: Secretes insulin in response to glucose challenge. But this phenotype is unstable., Group: Patented cell line.

Category: Transformed cell line

Organism: Mus musculus (Mouse)

Name: Beta-TC-6

Synonyms: beta-TC-6, beta-TC6, beta TC6, BetaTC6, betaTC6

Cross References: BTO:BTO_0003428, CLO:CLO_0001933, ATCC:CRL-3605, ATCC:CRL-11506, CCRID:3101MOUSCSP5061, CCRID:3101MOUTCM34, ChEMBL-Cells:ChEMBL3308358, ChEMBL-Targets:ChEMBL614357, CLS:305181, GEO:GSE70960, IZSLER:BS TCL 222, KCB:KCB 2010190YJ, Lonza:1688, PubChem_Cell_line:CVCL_0605, Wikidata:Q54796099

ID: CVCL_0605

Vendor: CLS

Catalog Number: 305181

Record Creation Time: 20220923T070421+0000

Record Last Update: 20260905T183000+0000

Ratings and Alerts

No rating or validation information has been found for Beta-TC-6.

No alerts have been found for Beta-TC-6.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Nan J, et al. (2026) Single-cell perturbations decipher ribosomal stress-surveillance regulators in type 2 diabetes. Nature metabolism.

Li S, et al. (2026) Islet regeneration protein Reg3g promotes macrophage clearance of β cell-derived dysfunctional mitochondria-rich vesicles to mitigate T2DM. Redox biology, 89, 103996.

Jiao Y, et al. (2025) Nucleolar stress facilitates islet β cell senescence via hijacking the DNA damage response pathways. iScience, 28(10), 113508.

Peng G, et al. (2025) FOXM1 cooperates with ER β to regulate functional β -cell mass. American journal of physiology. Endocrinology and metabolism, 328(6), E804.

Weidemann BJ, et al. (2024) Repression of latent NF- κ B enhancers by PDX1 regulates β cell functional heterogeneity. Cell metabolism, 36(1), 90.

Hayat H, et al. (2023) Deep learning-enabled quantification of simultaneous PET/MRI for cell transplantation monitoring. iScience, 26(7), 107083.

Wu Y, et al. (2022) Glycerate from intestinal fructose metabolism induces islet cell damage and glucose intolerance. Cell metabolism, 34(7), 1042.

Celen C, et al. (2022) Arid1a loss potentiates pancreatic β -cell regeneration through activation of EGF signaling. Cell reports, 41(5), 111581.

Hill JH, et al. (2022) BcfA, a microbiota-secreted membrane disrupter, disseminates to the pancreas and increases β cell mass. Cell metabolism, 34(11), 1779.

Li S, et al. (2022) Regenerating islet-derived protein 3 gamma (Reg3g) ameliorates tacrolimus-induced pancreatic β -cell dysfunction in mice by restoring mitochondrial

function. British journal of pharmacology, 179(12), 3078.

Wang X, et al. (2021) ZBED6 counteracts high-fat diet-induced glucose intolerance by maintaining beta cell area and reducing excess mitochondrial activation. Diabetologia, 64(10), 2292.

Ying W, et al. (2021) MiR-690, an exosomal-derived miRNA from M2-polarized macrophages, improves insulin sensitivity in obese mice. Cell metabolism, 33(4), 781.

Rizzini L, et al. (2019) Cryptochromes-Mediated Inhibition of the CRL4Cop1-Complex Assembly Defines an Evolutionary Conserved Signaling Mechanism. Current biology : CB, 29(12), 1954.