

Resource Summary Report

Generated by [RRID](#) on Sep 8, 2026

STC-1

RRID:CVCL_J405

Type: Cell Line

Proper Citation

RRID:CVCL_J405

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_J405

Proper Citation: RRID:CVCL_J405

Description: Cell line STC-1 is a Cancer cell line with a species of origin Mus musculus (Mouse)

Sex: Sex unspecified

Disease: Neuroendocrine adenoma of the mouse intestinal tract

Defining Citation: [PMID:1654206](#), [PMID:2162628](#), [PMID:18708196](#), [PMID:22538498](#), [PMID:28870797](#), [PMID:29787051](#)

Category: Cancer cell line

Organism: Mus musculus (Mouse)

Name: STC-1

Cross References: BTO:BTO_0003584, ATCC:CRL-3254, Wikidata:Q54970558

ID: CVCL_J405

Record Creation Time: 20220427T221610+0000

Record Last Update: 20260905T182511+0000

Ratings and Alerts

No rating or validation information has been found for STC-1.

No alerts have been found for STC-1.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 117 mentions in open access literature.

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

Cao Y, et al. (2026) Targeting the ferritinophagy-lysosome axis as a therapeutic vulnerability in gastroenteropancreatic neuroendocrine tumors. *Cell reports. Medicine*, 7(4), 102695.

Sisa A, et al. (2026) Simulated Gastrointestinal Digestion of Tilapia (*Oreochromis niloticus*) Scale Hydrolysates Enhances ACE-Inhibitory Activity and Reveals Antioxidant Effects in STC-1 Cells. *Foods (Basel, Switzerland)*, 15(14).

White AC, et al. (2025) The pyrethroid insecticide deltamethrin disrupts neuropeptide and monoamine signaling pathways in the gastrointestinal tract. *Toxicological sciences : an official journal of the Society of Toxicology*.

Li P, et al. (2025) Dihydromyricetin Promotes Glucagon-Like Peptide-1 Secretion and Improves Insulin Resistance by Modulation of the Gut Microbiota-CDCA Pathway. *Molecular nutrition & food research*, 69(8), e202400491.

Jameson KG, et al. (2025) Select microbial metabolites in the small intestinal lumen regulates vagal activity via receptor-mediated signaling. *iScience*, 28(2), 111699.

Sun J, et al. (2025) Organs-on-a-Chip Recapitulating the Gut-Islets Axis for Endocrine Hormone Secretion Regulator Evaluation. *Research (Washington, D.C.)*, 8, 0923.

Wang JX, et al. (2024) Lactobacillus reuteri-Enriched Eicosatrienoic Acid Regulates Glucose Homeostasis by Promoting GLP-1 Secretion to Protect Intestinal Barrier Integrity. *Journal of agricultural and food chemistry*.

Huang Y, et al. (2024) Mechano-regulation of GLP-1 production by Piezo1 in intestinal L cells. *eLife*, 13.

Lopez-Escalera S, et al. (2023) In Vitro Screening for Probiotic Properties of Lactobacillus and Bifidobacterium Strains in Assays Relevant for Non-Alcoholic Fatty Liver Disease Prevention. *Nutrients*, 15(10).

Cuffaro B, et al. (2023) Characterization of Two Parabacteroides distasonis Candidate Strains as New Live Biotherapeutics against Obesity. *Cells*, 12(9).

Haneishi Y, et al. (2023) Polyunsaturated fatty acids-rich dietary lipid prevents high fat diet-induced obesity in mice. *Scientific reports*, 13(1), 5556.

Lunevicius R, et al. (2023) Multiple logistic regression model to predict bile leak associated with subtotal cholecystectomy. *Surgical endoscopy*, 1.

Erk?l?nç G, et al. (2023) The expression of stanniocalcin-1, estrogen receptor and progesterone receptor in endometrioid endometrial cancer. Turkish journal of obstetrics and gynecology, 20(1), 8.

Odongo K, et al. (2023) Development of sandwich ELISAs for detecting glucagon-like peptide-1 secretion from intestinal L-cells and their application in STC-1 cells and mice. Journal of clinical biochemistry and nutrition, 72(1), 28.

Huh E, et al. (2023) P. mirabilis-derived pore-forming haemolysin, HpmA drives intestinal alpha-synuclein aggregation in a mouse model of neurodegeneration. EBioMedicine, 98, 104887.

Hurley MJ, et al. (2023) ?-Synuclein expression in response to bacterial ligands and metabolites in gut enteroendocrine cells: an in vitro proof of concept study. Brain communications, 5(6), fcad285.

Nonaka H, et al. (2022) Dietary Medium-Chain Triglyceride Decanoate Affects Glucose Homeostasis Through GPR84-Mediated GLP-1 Secretion in Mice. Frontiers in nutrition, 9, 848450.

Paulussen F, et al. (2022) The ?2-adrenergic receptor in the apical membrane of intestinal enterocytes senses sugars to stimulate glucose uptake from the gut. Frontiers in cell and developmental biology, 10, 1041930.

Amorim Neto DP, et al. (2022) Akkermansia muciniphila induces mitochondrial calcium overload and ? -synuclein aggregation in an enteroendocrine cell line. iScience, 25(3), 103908.

Heffernan S, et al. (2022) Blue Whiting (Micromesistius poutassou) Protein Hydrolysates Increase GLP-1 Secretion and Proglucagon Production in STC-1 Cells Whilst Maintaining Caco-2/HT29-MTX Co-Culture Integrity. Marine drugs, 20(2).