

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

NIH 3T3

RRID:CVCL_0594

Type: Cell Line

Proper Citation

RCB Cat# RCB2767, RRID:CVCL_0594

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0594

Proper Citation: RCB Cat# RCB2767, RRID:CVCL_0594

Description: Cell line NIH 3T3 is a Spontaneously immortalized cell line with a species of origin *Mus musculus* (Mouse)

Sex: Male

Defining Citation: [PMID:2463382](#), [PMID:4087463](#), [PMID:4311790](#), [PMID:9753870](#), [PMID:17284666](#), [PMID:22619183](#), [PMID:23321776](#), [PMID:23430347](#), [PMID:25277546](#), [PMID:31220119](#), [PMID:36078083](#)

Comments: Miscellaneous: PubMed=23430347 has a different value for STR 6-4 (14.3) than that of NIST (15.3) due to a change in the marker motif (personal communication of Almeida, Jamie L.), Miscellaneous: PubMed=23430347 has a different value for STR 4-2 (19.3) than that of NIST (19.3,20.3) due to a change in the stutter rules (personal communication of Almeida, Jamie L.), Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982), Part of: ENCODE project mouse cell lines.

Category: Spontaneously immortalized cell line

Organism: *Mus musculus* (Mouse)

Name: NIH 3T3

Synonyms: NIH/3T3, NIH-3T3, NIH3T3, 3T3, 3T3NIH, 3T3-Swiss, Swiss-3T3, Swiss/3T3, Swiss 3T3, Swiss3T3

Cross References: BTO:BTO_0000944, BTO:BTO_0005065, CLO:CLO_0008172, CLO:CLO_0009227, CLO:CLO_0050548, EFO:EFO_0001222, MCCL:MCC:0000362, CLDB:cl3702, CLDB:cl3704, CLDB:cl3705, CLDB:cl3706, CLDB:cl3707, CLDB:cl3708, CLDB:cl3709, CLDB:cl3710, CLDB:cl3711, CLDB:cl4451, CLDB:cl7203, ABM:T8981,

AddexBio:P0011001/83, ATCC:CRL-1658, ATCC:CRL-6442, BCRC:60008, BCRJ:0191, BEI_Resources:ARP-9946, BioGRID_ORCS_Cell_line:301, BioSample:SAMN11397633, CCLV:CCLV-RIE 0058, CCRID:1101MOU-PUMC000018, CCRID:1102MOU-NIFDC00034, CCRID:3101MOUGNM6, CCRID:3101MOUSCSP515, CCRID:4201MOU-CCTCC00030, CCTCC:GDC0030, ChEMBL-Cells:ChEMBL3307716, ChEMBL-Targets:ChEMBL614822, CLS:400101, DSMZ:ACC-59, DSMZCellDive:ACC-59, ECACC:93061524, ENCODE:ENCBS117ENC, ENCODE:ENCBS990YBC, GEO:GSE5810, GEO:GSM1014177, Hysigen:TCM-C752, IBRC:C10100, ICLC:AL07001, IZSLER:BS CL 165, KCB:KCB 200645YJ, KCLB:21658, Lonza:115, MeSH:D041681, NCBI_Iran:C156, PRIDE:PXD001241, PRIDE:PXD004929, PubChem_Cell_line:CVCL_0594, RCB:RCB2767, TKG:TKG 0299, TOKU-E:2753, TOKU-E:3547, Ubigen:YC-A013, Wikidata:Q4636420

ID: CVCL_0594

Vendor: RCB

Catalog Number: RCB2767

Record Creation Time: 20220427T221342+0000

Record Last Update: 20260905T181922+0000

Ratings and Alerts

No rating or validation information has been found for NIH 3T3.

Warning: Discontinued: ATCC; CRL-6442

Miscellaneous: PubMed=23430347 has a different value for STR 6-4 (14.3) than that of NIST (15.3) due to a change in the marker motif (personal communication of Almeida, Jamie L.), Miscellaneous: PubMed=23430347 has a different value for STR 4-2 (19.3) than that of NIST (19.3,20.3) due to a change in the stutter rules (personal communication of Almeida, Jamie L.), Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: ENCODE project mouse cell lines.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 8694 mentions in open access literature.

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

Huang D, et al. (2026) Perfluorohexane/hemoglobin nano-oxygen carriers enhance transplanted islet graft survival via hypoxia alleviation and mitochondrial repair. Journal of controlled release : official journal of the Controlled Release Society, 391, 114646.

Uhl L, et al. (2026) MYC binding to nascent RNA suppresses innate immune signaling by R-loop-derived RNA-DNA hybrids. *Cell*, 189(5), 1371.

Chen L, et al. (2026) Leveraging SARS-CoV-2-induced pre-existing humoral and cellular immunity for tumor elimination. *International immunopharmacology*, 171, 116114.

Zhang Q, et al. (2026) Xijiaqi Formula attenuates myocardial infarction-induced chronic heart failure by inhibiting TGF- β 1/Smads-mediated fibroblast activation. *Pharmaceutical biology*, 64(1), 46.

Zhu M, et al. (2026) Minimizing far-extending chromatin perturbation in genome editing preserves stem cell identity. *Cell stem cell*, 33(3), 470.

Ma Y, et al. (2026) Imidazolium salt chitosan based on bacterial capture: Antimicrobial mechanisms, biosafety, and methicillin-resistant *Staphylococcus aureus*-infected wound healing. *Carbohydrate polymers*, 380, 125083.

Hang JF, et al. (2026) Out-of-frame CBX3::ALK fusion drives ALK activation and therapy response. *Cell reports. Medicine*, 7(4), 102697.

Ping Y, et al. (2026) Procyanidin capsules attenuate PI3K/AKT-mediated mitochondrial dysfunction and accelerate skin wound healing in diabetic mice. *Materials today. Bio*, 38, 103029.

Hu M, et al. (2026) Activated T cell extracellular vesicle DNA transfer enhances antigen presentation and anti-tumor immunity. *Cancer cell*, 44(5), 965.

Sykorova S, et al. (2026) Kynurenic acid as a promising therapeutic agent in renal fibrosis: dual modulation of fibrosis and immune crosstalk. *British journal of pharmacology*, 183(15), 4448.

Duré C, et al. (2026) In vivo single-cell ribosome profiling reveals cell-type-specific translational programs during aging. *Molecular cell*, 86(11), 2223.

Ta N, et al. (2026) Targeting p21-High Senescent Kupffer Cells Nanotherapeutically Potentiates Antitumor Immunity in Advanced Hepatocellular Carcinoma with Portal Vein Tumor Thrombus. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, e76384.

Xu W, et al. (2026) Single-nucleus chromatin accessibility and gene expression co-profiling by ISSAAC-seq. *Nature protocols*.

Wang M, et al. (2026) Biomaterial-minimalistic photoactivated bioprinting of cell-dense tissues. *Cell*, 189(1), 106.

Fan J, et al. (2026) Cell exposure to hyaluronic acid/ γ -Poly-L-Lysine physically crosslinked hydrogel disrupts glutamate metabolism and leads to cytoskeletal collapse. *International journal of biological macromolecules*, 339(Pt 2), 149982.

Hoffmann C, et al. (2026) Membrane-protein-mediated phase separation orchestrates organelle contact sites. *Molecular cell*, 86(1), 135.

Qiao M, et al. (2026) ERM Inhibition Confers Ferroptosis Resistance through ROS-Induced NRF2 Signaling. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(16), e13310.

Tao H, et al. (2026) NSD1-Mediated PPAR γ Methylation Enhances PTEN Activity to Suppress Glycolysis and Tumor Progression in Endometrial Cancer. *Cancer research*, 86(10), 2464.

Martin K, et al. (2026) Perinatal infection elicits clonally restricted T follicular helper cell responses that drive antibody-mediated viral control. *Immunity*, 59(5), 1363.

Kato M, et al. (2026) CD44-Binding Peptide-Functionalized Antibiofouling Polymer Surface for High-Performance Separation of Human Mesenchymal Stromal Cells. *Chembiochem : a European journal of chemical biology*, 27(3), e202500822.