

Resource Summary Report

Generated by [NIF](#) on Aug 28, 2026

3T3-L1

RRID:CVCL_0123

Type: Cell Line

Proper Citation

BCRC Cat# 60159, RRID:CVCL_0123

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0123

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Description: Cell line 3T3-L1 is a Spontaneously immortalized cell line with a species of origin *Mus musculus* (Mouse)

Sex: Male

Defining Citation: [PMID:165899](#), [PMID:4426090](#), [PMID:6698114](#), [PMID:28176856](#)

Comments: Miscellaneous: STR profile from personal communication of Rodriguez-Tarduchy Segovia, Gemma.

Category: Spontaneously immortalized cell line

Organism: *Mus musculus* (Mouse)

Name: 3T3-L1

Synonyms: 3T3 L1, 3T3L1, 3T3-L1 ad, NIH-3T3-L1, NIH3T3-L1

Cross References: BTO:BTO_0000011, CLO:CLO_0001352, EFO:EFO_0001084, MCCL:MCC:0000015, CLDB:cl71, CLDB:cl72, CLDB:cl73, AddexBio:P0011002/407, ATCC:CCL-92.1, ATCC:CL-173, BCRC:60159, BCRJ:0019, CCRID:1101MOU-PUMC000155, CCRID:3101MOUGNM25, CCRID:3101MOUSCSP5038, CCRID:4201MOU-CCTCC00180, CCRID:5301MOU-KCB92010YJ, CCTCC:GDC0180, ChEMBL-Cells:ChEMBL3307630, ChEMBL-Targets:ChEMBL614510, CLS:400107, ECACC:86052701, ENCODE:ENCBS366WMO, ENCODE:ENCBS666CGP, Hysigen:TCM-C702, IBRC:C10152, IZSLER:BS CL 100, JCRB:IFO50416, JCRB:JCRB9014, KCB:KCB 92010YJ, KCLB:10092.1, Kerfast:EF3001, Lonza:677, Lonza:1083, MeSH:D041721, PRIDE:PXD001063, PRIDE:PXD001529, PRIDE:PXD003696, PubChem_Cell_line:CVCL_0123, TOKU-E:331, Wikidata:Q4636414

ID: CVCL_0123

Vendor: BCRC

Catalog Number: 60159

Hierarchy: cvcl_0120

Record Creation Time: 20220427T215051+0000

Record Last Update: 20260816T001612+0000

Ratings and Alerts

No rating or validation information has been found for 3T3-L1.

No alerts have been found for 3T3-L1.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 3407 mentions in open access literature.

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

Stokes MS, et al. (2026) NAD⁺ sensing by PARP7 regulates the C/EBP β -dependent transcription program during adipogenesis. Cell reports, 45(2), 116929.

Deiktakis M, et al. (2026) NGF promotes, in an autocrine-paracrine manner, metabolic and anti-inflammatory pathways in human and mouse adipocytes. The Journal of clinical endocrinology and metabolism, 111(7), e1892.

Shi Q, et al. (2026) Photothermal-Immunomodulatory Hydrogel Reinforced by Ti₃C₂/ZnAl-LDH Nanoplatfrom for Eradicating MRSA and Promoting Diabetic Wound Healing. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(17), e17577.

Chemla Y, et al. (2026) HLA export by melanoma cells decoys cytotoxic T cells to promote immune evasion. Cell, 189(1), 233.

Chen F, et al. (2026) Hierarchical Targeting of TREM2⁺ Myeloid Cells via Acid-Triggered OMVs Reprogram Immunosuppression and Suppress Osteolysis in Bone-Metastatic TNBC. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(32), e17369.

Nnyamah C, et al. (2026) Adipocyte-specific FFA2 deletion leads to increased adipose inflammation and is associated with altered intestinal lipid handling in mice. Physiological reports, 14(9), e70875.

Tai HC, et al. (2026) Induction of adipocyte thermogenic program by Rho-associated coiled-coil containing kinase 2. *iScience*, 29(4), 115225.

Xiong X, et al. (2026) Clock Modulation by Naringenin Suppresses Lipogenesis and Promotes Adipose Tissue Browning. *Journal of cellular physiology*, 241(4), e70175.

Wang W, et al. (2026) The rs713586 risk variant dysregulates ADCY3 rather than DNAJC27, leading to obesity through ZFP42-TET1-mediated DNA methylation. *EBioMedicine*, 123, 106112.

Jiang W, et al. (2026) Calcium influx drives m6A-dependent RUNX1T1 splicing to promote adipogenic commitment. *Cell reports*, 45(6), 117471.

Chen CY, et al. (2026) Transcriptome-guided development of a fibrosis-reversal compound reduces skin scarring and allows regeneration via mitochondrial uncoupling. *Cell reports. Medicine*, 7(5), 102821.

Yang Y, et al. (2026) Andrographolide inhibits the upregulation of SLC19A3 to block the adipogenic differentiation of adipose-derived stem cells. *iScience*, 29(1), 114379.

Chen SM, et al. (2026) Ent-Labdane Diterpenoids from the Medicinal Plant *Leucoscepttrum canum*. *Chemistry & biodiversity*, 23(3), e71143.

Lee S, et al. (2026) Pathological Nitric Oxide-Triggered Microneedle Patch for Spatiotemporally Controlled Therapy of Acute and Chronic Inflammatory Disorders. *Advanced healthcare materials*, 15(15), e04714.

Prashath S, et al. (2026) Analysis of catabolic products of L-arginine; L-ornithine and L-citrulline and the residual L-arginine using the HPLC and LC-MS. *PloS one*, 21(4), e0346976.

Mishra M, et al. (2026) Antibacterial and Antibiofilm Efficacy of 2-Phenyl Ethyl Methyl Ether Against Multidrug-Resistant *Klebsiella pneumoniae*. *Chemistry & biodiversity*, 23(5), e02552.

Zhu Q, et al. (2026) Optogenetic control of plasma membrane O-GlcNAcylation regulates WNK1 condensates and cellular signaling. *Cell chemical biology*, 33(6), 862.

Rajendiran S, et al. (2026) Hispidulin-mediated inhibition of lung cancer progression through PI3K/AKT Signaling: A combined bioinformatic analysis and experimental investigation. *Cytotechnology*, 78(3), 82.

Arneson-Wissink PC, et al. (2026) Impaired Adipose Anabolism in Pancreatic Cancer Cachexia Is Reversed by HuR Inhibition. *Journal of cachexia, sarcopenia and muscle*, 17(2), e70253.

Li Y, et al. (2026) Adipose extracellular vesicles carrying miR-210-3p drive macrophage inflammation and nicotine-induced atherosclerosis. *iScience*, 29(4), 115151.