

Resource Summary Report

Generated by [dkNET](#) 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 [dkNET](#) .

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.

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

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.

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.

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 DNJC27, 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.

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

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.

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 *Leucosceptrum canum*. *Chemistry & biodiversity*, 23(3), e71143.

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.

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.

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.

Bhavi SM, et al. (2026) Preliminary Evidence of GLUT4 Upregulation and Biocompatibility of *Syzygium caryophyllatum*-Derived Silver Nanoparticles in 3T3-L1 Preadipocytes. *Cell biochemistry and function*, 44(5), e70236.

Shin N, et al. (2026) Neutrophil-Like Mitochondria Enable Blood-Brain Barrier Transmigration and Neuroprotection. *ACS nano*, 20(21), 15116.