

Resource Summary Report

Generated by [dkNET](#) on May 4, 2025

NIH 3T3

RRID:CVCL_0594

Type: Cell Line

Proper Citation

(ICLC Cat# AL07001, RRID:CVCL_0594)

Cell Line Information

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

Proper Citation: (ICLC Cat# AL07001, RRID:CVCL_0594)

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.), Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: ENCODE project mouse cell lines.

Category: Spontaneously immortalized cell line

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, 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, 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: ICLC

Catalog Number: AL07001

Record Creation Time: 20250131T202115+0000

Record Last Update: 20250131T203923+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.), Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., 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 8529 mentions in open access literature.

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

Yoshida Y, et al. (2025) Targeting macrophage circadian rhythms with microcurrent stimulation to activate cancer immunity through phagocytic defense. *Theranostics*, 15(2),

Hall ET, et al. (2024) Cytoneme signaling provides essential contributions to mammalian tissue patterning. *Cell*, 187(2), 276.

Ku J, et al. (2024) Alternative polyadenylation determines the functional landscape of inverted Alu repeats. *Molecular cell*.

Dey N, et al. (2024) miR-217 Regulates Normal and Tumor Cell Fate Following Induction of Endoplasmic Reticulum Stress. *Molecular cancer research : MCR*, 22(4), 360.

Ye F, et al. (2024) Fast and flexible profiling of chromatin accessibility and total RNA expression in single nuclei using Microwell-seq3. *Cell discovery*, 10(1), 33.

Mancini AE, et al. (2024) A novel single-color FRET biosensor for Rho-kinase activity reveals calcium-dependent activation of RhoA and ROCK. *bioRxiv : the preprint server for biology*.

Gorantla SP, et al. (2024) A newly identified 45-kDa JAK2 variant with an altered kinase domain structure represents a novel mode of JAK2 kinase inhibitor resistance. *Molecular oncology*, 18(2), 415.

Liu YB, et al. (2024) A sterol analog inhibits hedgehog pathway by blocking cholesterylation of smoothened. *Cell chemical biology*.

Fields JK, et al. (2024) Antibodies targeting the shared cytokine receptor IL-1 receptor accessory protein invoke distinct mechanisms to block all cytokine signaling. *Cell reports*, 43(5), 114099.

Niekamp S, et al. (2024) Modularity of PRC1 composition and chromatin interaction define condensate properties. *Molecular cell*, 84(9), 1651.

Tao Y, et al. (2024) Inferring cellular contractile forces and work using deep morphology traction microscopy. *Biophysical journal*, 123(18), 3217.

Nguyen AL, et al. (2024) Co-essentiality analysis identifies PRR12 as a cohesin interacting protein and contributor to genomic integrity. *Developmental cell*.

Almeida NLM, et al. (2024) Anti-Candida activity and biocompatibility of silver nanoparticles associated with denture glaze: a new approach to the management of denture stomatitis. *Folia microbiologica*, 69(6), 1229.

Papadopoulos D, et al. (2024) The MYCN oncoprotein is an RNA-binding accessory factor of the nuclear exosome targeting complex. *Molecular cell*, 84(11), 2070.

Goto N, et al. (2024) ISWI chromatin remodeling complexes recruit NSD2 and H3K36me2 in pericentromeric heterochromatin. *The Journal of cell biology*, 223(8).

Deng M, et al. (2024) Cultivation, cryopreservation, and transcriptomic studies of host-adapted *Cryptosporidium parvum* and *Cryptosporidium hominis* using enteroids. *iScience*,

27(4), 109563.

Resende DISP, et al. (2024) Antibacterial Potential of Symmetrical Twin-Drug 3,6-Diaminoxanthenes. *Pharmaceuticals (Basel, Switzerland)*, 17(2).

Liang W, et al. (2024) An integrated multi-omics analysis reveals osteokines involved in global regulation. *Cell metabolism*, 36(5), 1144.

Ni Q, et al. (2024) Cytoskeletal activation of NHE1 regulates mechanosensitive cell volume adaptation and proliferation. *Cell reports*, 43(12), 114992.

Chakrabarty A, et al. (2024) sUPRa is a dual-color reporter for unbiased quantification of the unfolded protein response with cellular resolution. *Scientific reports*, 14(1), 14990.