

Resource Summary Report

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NIH 3T3

RRID:CVCL_0594

Type: Cell Line

Proper Citation

(TKG Cat# TKG 0299, RRID:CVCL_0594)

Cell Line Information

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

Proper Citation: (TKG Cat# TKG 0299, 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: TKG

Catalog Number: TKG 0299

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 [FDI Lab - SciCrunch.org](#).

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*.

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).

Yu S, et al. (2024) A non-viral DNA delivery system consisting of multifunctional chimeric peptide fused with zinc-finger protein. *iScience*, 27(4), 109464.

Deng M, et al. (2024) Cultivation, cryopreservation, and transcriptomic studies of host-adapted *Cryptosporidium parvum* and *Cryptosporidium hominis* using enteroids. *iScience*, 27(4), 109563.

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.

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

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.

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