Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 15, 2025

NSC-34

RRID:CVCL_D356
Type: Cell Line

Proper Citation

(RRID:CVCL_D356)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_D356

Proper Citation: (RRID:CVCL_D356)

Defining Citation: PMID:1467557, PMID:17896795, PMID:25193168, PMID:27242431

Comments: Miscellaneous: STR profile from personal communication of Rodriguez-Tarduchy Segovia, Gemma., Omics: Deep proteome analysis., Characteristics: Produced by the fusion of motor neuron enriched, embryonic 12-14 days mouse spinal cord cells with N18TG2 (PubMed=1467557).

Category: Hybrid cell line

Name: NSC-34

Synonyms: NSC 34, NSC34, Neuroblastoma x Spinal Cord-34

Cross References: BTO:BTO_0004488, Lonza:5, Wikidata:Q54931057

ID: CVCL_D356

Record Creation Time: 20250131T202130+0000

Record Last Update: 20250131T203940+0000

Ratings and Alerts

No rating or validation information has been found for NSC-34.

No alerts have been found for NSC-34.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 408 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Li S, et al. (2025) Exosomes originating from neural stem cells undergoing necroptosis participate in cellular communication by inducing TSC2 upregulation of recipient cells following spinal cord injury. Neural regeneration research, 20(11), 3273.

Kim A, et al. (2024) Cdk5 inhibition in the SOD1G93A transgenic mouse model of amyotrophic lateral sclerosis suppresses neurodegeneration and extends survival. Journal of neurochemistry, 168(9), 2908.

Fan YP, et al. (2024) UBC9-mediated SUMOylation of Lamin B1 enhances DNA-damage-induced nuclear DNA leakage and autophagy after spinal cord injury. Journal of cellular physiology.

Chen W, et al. (2024) OSMR is a potential driver of inflammation in amyotrophic lateral sclerosis. Neural regeneration research, 19(11), 2513.

Mahadev Bhat S, et al. (2024) Heterogeneous distribution of mitochondria and succinate dehydrogenase activity in human airway smooth muscle cells. FASEB bioAdvances, 6(6), 159.

Cascella R, et al. (2023) An in situ and in vitro investigation of cytoplasmic TDP-43 inclusions reveals the absence of a clear amyloid signature. Annals of medicine, 55(1), 72.

Shin SM, et al. (2023) Peripheral sensory neurons and non-neuronal cells express functional Piezo1 channels. Molecular pain, 19, 17448069231174315.

Hashimoto K, et al. (2023) Intrinsic structural vulnerability in the hydrophobic core induces species-specific aggregation of canine SOD1 with degenerative myelopathy-linked E40K mutation. The Journal of biological chemistry, 299(6), 104798.

Sleigh JN, et al. (2023) Boosting peripheral BDNF rescues impaired in vivo axonal transport in CMT2D mice. JCI insight, 8(9).

Wang SM, et al. (2023) Nucleoporin POM121 signals TFEB-mediated autophagy via activation of SIGMAR1/sigma-1 receptor chaperone by pridopidine. Autophagy, 19(1), 126.

Ackerman HD, et al. (2023) Bile Acids Induce Neurite Outgrowth in Nsc-34 Cells via TGR5 and a Distinct Transcriptional Profile. Pharmaceuticals (Basel, Switzerland), 16(2).

Jin X, et al. (2023) miR-506-3p Relieves Neuropathic Pain following Brachial Plexus Avulsion via Mitigating Microglial Activation through Targeting the CCL2-CCR2 Axis. Developmental neuroscience, 45(1), 37.

Miyagi T, et al. (2023) Differential toxicity and localization of arginine-rich C9ORF72 dipeptide repeat proteins depend on de-clustering of positive charges. iScience, 26(6), 106957.

So HK, et al. (2023) Protein Arginine Methyltransferase 1 Ablation in Motor Neurons Causes Mitochondrial Dysfunction Leading to Age-related Motor Neuron Degeneration with Muscle Loss. Research (Washington, D.C.), 6, 0158.

Anchesi I, et al. (2023) Cannabigerol Activates Cytoskeletal Remodeling via Wnt/PCP in NSC-34: An In Vitro Transcriptional Study. Plants (Basel, Switzerland), 12(1).

Kask L, et al. (2023) Signatures in in vitro infection of NSC-34 mouse neurons and their cell nucleus with Rickettsia helvetica. BMC microbiology, 23(1), 113.

Wang D, et al. (2023) SPY1 inhibits neuronal ferroptosis in amyotrophic lateral sclerosis by reducing lipid peroxidation through regulation of GCH1 and TFR1. Cell death and differentiation, 30(2), 369.

Adriaenssens E, et al. (2023) Small heat shock proteins operate as molecular chaperones in the mitochondrial intermembrane space. Nature cell biology, 25(3), 467.

Giagnorio E, et al. (2023) MiR-146a in ALS: Contribution to Early Peripheral Nerve Degeneration and Relevance as Disease Biomarker. International journal of molecular sciences, 24(5).

Nordström U, et al. (2023) Mutant SOD1 aggregates formed in vitro and in cultured cells are polymorphic and differ from those arising in the CNS. Journal of neurochemistry, 164(1), 77.