Resource Summary Report

Generated by RRID on Sep 8, 2026

MN9D

RRID:CVCL_M067
Type: Cell Line

Proper Citation

Millipore Cat# SCC281, RRID:CVCL_M067

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_M067

Proper Citation: Millipore Cat# SCC281, RRID:CVCL_M067

Description: Cell line MN9D is a Hybrid cell line with a species of origin Mus musculus (Mouse)

Defining Citation: PMID:1357658, PMID:1913182, PMID:17028430

Comments: Characteristics: Fusion of N18TG2 with rostral mesencephalic neurons from a 14-day-old C57BL/6J mouse embryo (PubMed=1913182)., Characteristics: Extensively used to model dopaminergic neurons and to test mechanisms and potential therapeutics relevant to the loss of DA neurons in Parkinson's disease (Millipore=SCC281).

Category: Hybrid cell line

Organism: Mus musculus (Mouse)

Name: MN9D

Synonyms: MN-9D

Cross References: BTO:BTO_0003945, EFO:EFO_0006455, Lonza:979, Millipore:SCC281, Wikidata:Q54906266

ID: CVCL_M067

Vendor: Millipore

Catalog Number: SCC281

Hierarchy: cvcl_2132

Record Creation Time: 20220427T220816+0000

Record Last Update: 20260905T181201+0000

Ratings and Alerts

No rating or validation information has been found for MN9D.

No alerts have been found for MN9D.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Zhang Y, et al. (2026) Remimazolam Ameliorates Autistic-Like Behaviors via Suppression of Ferroptosis in VTA Dopaminergic Neurons in a Mouse Model of ASD. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(20), e08520.

Lin Y, et al. (2026) ATP6V0A1 protects dopaminergic neurons via the autophagy-lysosomal pathway in Parkinson's disease. Neural regeneration research, 21(8), 3797.

Park CH, et al. (2026) DAPK1-Mediated Parkin Inactivation Enhances Neurotoxicity via MITOL-Dependent Degradation. Journal of cellular and molecular medicine, 30(7), e71132.

Lu H, et al. (2025) Targeting Microglial CD49a Inhibits Neuroinflammation and Demonstrates Therapeutic Potential for Parkinson's Disease. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e15138.

Engskog-Vlachos P, et al. (2025) Metabolic Profiling Reveals a Glycolytic Shift and an IRG1/Itaconate/NF2L2 Axis Regulating Neurotoxic Oxidative Stress in Inflammatory Microglia. Journal of neurochemistry, 169(9), e70219.

Škandík M, et al. (2025) Age-associated microglial transcriptome leads to diminished immunogenicity and dysregulation of MCT4 and P2RY12/P2RY13 related functions. Cell death discovery, 11(1), 16.

Kouwenhoven WM, et al. (2025) The absence of Pitx3 results in postnatal loss of dopamine neurons and is associated with an increase in the pro-apoptotic Bcl2 factor Noxa and cleaved caspase 3. Cell death & disease, 16(1), 230.

Lin Z, et al. (2025) NOX4 exacerbates Parkinson's disease pathology by promoting neuronal ferroptosis and neuroinflammation. Neural regeneration research, 20(7), 2038.

Stoop J, et al. (2023) Tyrosine hydroxylase phosphorylation is under the control of serine 40. Journal of neurochemistry, 167(3), 376.

Zhang CT, et al. (2023) Dephosphorylation of Six2Y129 protects tyrosine hydroxylase-positive cells in SNpc by regulating TEA domain 1 expression. iScience, 26(7), 107049.

Samidurai M, et al. (2021) PKC Delta Activation Promotes Endoplasmic Reticulum Stress (ERS) and NLR Family Pyrin Domain-Containing 3 (NLRP3) Inflammasome Activation Subsequent to Asynuclein-Induced Microglial Activation: Involvement of Thioredoxin-Interacting Protein (TXNIP)/Thioredoxin (Trx) Redoxisome Pathway. Frontiers in aging neuroscience, 13, 661505.

Zeng F, et al. (2021) Effects of Manipulation of Noradrenergic Activities on the Expression of Dopaminergic Phenotypes in Aged Rat Brains. ASN neuro, 13, 17590914211055064.

Lickteig B, et al. (2019) N-Methyl-4-phenylpyridinium Scaffold-Containing Lipophilic Compounds Are Potent Complex I Inhibitors and Selective Dopaminergic Toxins. ACS chemical neuroscience, 10(6), 2977.

Chao RY, et al. (2018) Defective trafficking of Kv2.1 channels in MPTP-induced nigrostriatal degeneration. Journal of neurochemistry, 144(4), 483.

Mapa MST, et al. (2018) Characteristics of the mitochondrial and cellular uptake of MPP+, as probed by the fluorescent mimic, 4'I-MPP. PloS one, 13(8), e0197946.

Ay M, et al. (2017) Molecular mechanisms underlying protective effects of quercetin against mitochondrial dysfunction and progressive dopaminergic neurodegeneration in cell culture and MitoPark transgenic mouse models of Parkinson's Disease. Journal of neurochemistry, 141(5), 766.