

Resource Summary Report

Generated by [RRID](#) on Sep 9, 2026

MO3.13

RRID:CVCL_D357

Type: Cell Line

Proper Citation

RRID:CVCL_D357

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_D357

Proper Citation: RRID:CVCL_D357

Description: Cell line MO3.13 is a Hybrid cell line with a species of origin Homo sapiens (Human)

Defining Citation: [PMID:7707048](#), [PMID:10074188](#), [PMID:14618099](#), [PMID:24167090](#), [PMID:28861932](#)

Comments: Characteristics: Produced by fusion of RD.TG6 with adult human oligodendrocytes (PubMed=7707048).

Category: Hybrid cell line

Organism: Homo sapiens (Human)

Name: MO3.13

Synonyms: M03.13

Cross References: EFO:EFO_0022639, PRIDE:PXD000263, PRIDE:PXD004696, Wikidata:Q54906285

ID: CVCL_D357

Hierarchy: cvcl_dp30

Record Creation Time: 20220427T220816+0000

Record Last Update: 20260905T181201+0000

Ratings and Alerts

No rating or validation information has been found for MO3.13.

No alerts have been found for MO3.13.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Mikolajewicz N, et al. (2026) Reactive oligodendrocytes promote glioblastoma progression through CCL5/CCR5-mediated glioma stem cell maintenance. *Neuron*, 114(2), 237.

Mu Y, et al. (2026) Physical exercise promotes white matter repair after ischemic stroke. *Neural regeneration research*, 21(6), 2397.

Yang Y, et al. (2026) Oligodendrocyte-secreted ERBB3 Mediates the Competitive Uptake of Copper Ions by Tumor Cells to Promote Brain Metastasis in Lung Cancer. *International journal of biological sciences*, 22(7), 3580.

Palmiero A, et al. (2026) Dose-Dependent Biphasic Effect of Palmitic Acid on Oligodendrocyte Function: Impacts on Viability, Differentiation, and Myelination. *Journal of cellular physiology*, 241(2), e70145.

Sun M, et al. (2026) ER-derived caveolin-coated vesicles transport newly synthesized cholesterol to the plasma membrane. *The Journal of cell biology*, 225(6).

Jaramillo-Restrepo C, et al. (2026) H-ABC tubulinopathy exhibits a cytoskeletal defect associated with microtubule stability. *Neurobiology of disease*, 224, 107420.

Moon BS, et al. (2026) Brain corticogenesis promotes SARS-CoV-2 neuro-glial tropism through lipid-dependent viral replication. *Stem cell reports*, 103020.

Chen SW, et al. (2025) ECM29/proteasome-mediated self-antigen generation by CNS-resident neuroglia promotes regulatory T cell activation. *Cell reports*, 44(1), 115161.

Ding B, et al. (2024) L-ascorbyl-2-phosphate alleviates white matter injury caused by chronic hypoxia through the PRMT5/P53/NF- κ B pathway. *Journal of neurochemistry*, 168(2), 142.

Caratis F, et al. (2024) The proton-sensing receptors TDAG8 and GPR4 are differentially expressed in human and mouse oligodendrocytes: Exploring their role in neuroinflammation and multiple sclerosis. *PloS one*, 19(3), e0283060.

Sawamura M, et al. (2024) A lipid nanoparticle-based oligodendrocyte-specific mRNA therapy. *Molecular therapy. Nucleic acids*, 35(4), 102380.

Xu W, et al. (2024) Ring finger protein 216 loss-of-function induces white matter hyperintensities by inhibiting oligodendroglia proliferation. *Cell biochemistry and function*, 42(4), e4057.

Glänzel NM, et al. (2023) Myelin Disruption, Neuroinflammation, and Oxidative Stress Induced by Sulfite in the Striatum of Rats Are Mitigated by the pan-PPAR agonist Bezafibrate. *Cells*, 12(12).

Suhail H, et al. (2023) An early glycolysis burst in microglia regulates mitochondrial dysfunction in oligodendrocytes under neuroinflammation. *iScience*, 26(10), 107921.

Tan HY, et al. (2022) cGAS and DDX41-STING mediated intrinsic immunity spreads intercellularly to promote neuroinflammation in SOD1 ALS model. *iScience*, 25(6), 104404.

Velasco-Estevez M, et al. (2022) Mechanoreceptor Piezo1 Is Downregulated in Multiple Sclerosis Brain and Is Involved in the Maturation and Migration of Oligodendrocytes in vitro. *Frontiers in cellular neuroscience*, 16, 914985.

Velasco-Estevez M, et al. (2021) EBI2 Is Temporarily Upregulated in MO3.13 Oligodendrocytes during Maturation and Regulates Remyelination in the Organotypic Cerebellar Slice Model. *International journal of molecular sciences*, 22(9).

Hoshino T, et al. (2020) Susceptibility to erastin-induced ferroptosis decreases during maturation in a human oligodendrocyte cell line. *FEBS open bio*, 10(9), 1758.

Singh I, et al. (2018) Combination therapy of lovastatin and AMP-activated protein kinase activator improves mitochondrial and peroxisomal functions and clinical disease in experimental autoimmune encephalomyelitis model. *Immunology*, 154(3), 434.