

Resource Summary Report

Generated by [RRID](#) on Sep 8, 2026

OP9

RRID:CVCL_4398

Type: Cell Line

Proper Citation

CLS Cat# 305174, RRID:CVCL_4398

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_4398

Proper Citation: CLS Cat# 305174, RRID:CVCL_4398

Description: Cell line OP9 is a Stromal cell line with a species of origin *Mus musculus* (Mouse)

Sex: Sex unspecified

Defining Citation: [PMID:8066449](#), [PMID:8990620](#), [PMID:20659712](#), [PMID:20810995](#), [PMID:23469264](#), [PMID:28176856](#)

Comments: Characteristics: Used as feeder cells for the differentiation of ES cells and iPS cells into hematopoietic cells., Characteristics: Does not produce Csf1 (M-CSF) due to a mutation in the gene.

Category: Stromal cell line

Organism: *Mus musculus* (Mouse)

Name: OP9

Synonyms: OP-9

Cross References: BTO:BTO_0003295, CLO:CLO_0008268, ATCC:CRL-2749, BCRC:60566, BCRJ:0309, CCRID:1101MOU-PUMC000479, CCRID:3101MOUGNM17, CCRID:3101MOUSCSP227, CLS:305174, GEO:GSM562062, RCB:RCB1124, Wikidata:Q50871278

ID: CVCL_4398

Vendor: CLS

Catalog Number: 305174

Record Creation Time: 20220923T071426+0000

Record Last Update: 20260905T183023+0000

Ratings and Alerts

No rating or validation information has been found for OP9.

No alerts have been found for OP9.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 41 mentions in open access literature.

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

Wang Z, et al. (2026) Pluripotent stem cell-derived CAR-NK progenitor therapy targets minimal residual disease and prevents relapse in leukemia models. *Cell stem cell*, 33(3), 405.

Kama Y, et al. (2026) Notch interaction with RUNX factors regulates initiation of the T-lineage program. *The Journal of experimental medicine*, 223(2).

Tudela JG, et al. (2026) Kaposi Sarcoma Herpes Virus Reprograms Mesenchymal Cell Glycosylation to control platelet-derived growth factor receptor A signaling. *bioRxiv : the preprint server for biology*.

Ng HL, et al. (2026) BCR::ABL1-Induced Enhancer Reprogramming Uncovers Hypersensitivity of Ph+B-ALL Cells to Enhancer-Targeting Drugs. *Advanced science (Weinheim, Baden-Wurtemberg, Germany)*, 13(25), e17231.

Soltys V, et al. (2026) Flexible and high-throughput simultaneous profiling of gene expression and chromatin accessibility in single cells. *eLife*, 15.

Feng JX, et al. (2026) Single-cell lineage tracing identifies hemogenic endothelial cells in the adult mouse bone marrow. *eLife*, 15.

Tingvall-Gustafsson J, et al. (2025) Chromatin interaction-based annotation of regulatory elements reveals dynamic promoter-enhancer interactions in lymphocyte development. *iScience*, 28(7), 112855.

Balan S, et al. (2025) Harnessing Notch Signaling to Enhance the Generation and Functionality of Human Conventional Type 1 Dendritic Cells for Cancer Immunotherapy Applications. *Cancer immunology research*, 13(9), 1328.

Poelchen J, et al. (2025) Generation and functional analysis of melanoma antigen-specific CD8⁺ T cells derived from S/MAR vector-transfected human induced pluripotent stem cells. *International journal of cancer*, 157(9), 1876.

Prakash A, et al. (2025) Mitochondrial-activity-driven hematopoietic stem cell fate and lineage choice is first established in the aorta-gonad-mesonephros. *Cell reports*, 44(10), 116296.

Collins A, et al. (2024) Maternal inflammation regulates fetal emergency myelopoiesis. *Cell*, 187(6), 1402.

Li Z, et al. (2024) Isolation, expansion, and adoptive transfer of human ILC2s for the treatment of mice bearing liquid and solid tumors. *STAR protocols*, 5(3), 103096.

Bonora M, et al. (2024) A mitochondrial NADPH-cholesterol axis regulates extracellular vesicle biogenesis to support hematopoietic stem cell fate. *Cell stem cell*, 31(3), 359.

Birdwell CE, et al. (2024) Preclinical efficacy of targeting epigenetic mechanisms in AML with 3q26 lesions and EVI1 overexpression. *Leukemia*, 38(3), 545.

Xu T, et al. (2024) Notch2 signaling governs activated B cells to form memory B cells. *Cell reports*, 43(7), 114454.

Li Z, et al. (2024) Therapeutic application of human type 2 innate lymphoid cells via induction of granzyme B-mediated tumor cell death. *Cell*, 187(3), 624.

Kudo T, et al. (2023) Context-dependent regulation of lipid accumulation in adipocytes by a HIF1 α -PPAR α feedback network. *Cell systems*, 14(12), 1074.

Han L, et al. (2023) METTL16 drives leukemogenesis and leukemia stem cell self-renewal by reprogramming BCAA metabolism. *Cell stem cell*, 30(1), 52.

Li Y, et al. (2023) TET2-mediated mRNA demethylation regulates leukemia stem cell homing and self-renewal. *Cell stem cell*, 30(8), 1072.

Hu Y, et al. (2023) Lineage-specific 3D genome organization is assembled at multiple scales by IKAROS. *Cell*, 186(24), 5269.