

Resource Summary Report

Generated by [dkNET](#) on Sep 18, 2026

MRC-5

RRID:CVCL_0440

Type: Cell Line

Proper Citation

CLS Cat# 300395, RRID:CVCL_0440

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0440

Proper Citation: CLS Cat# 300395, RRID:CVCL_0440

Description: Cell line MRC-5 is a Finite cell line with a species of origin Homo sapiens (Human)

Sex: Male

Defining Citation: [PMID:113411](#), [PMID:211143](#), [PMID:932048](#), [PMID:1031681](#), [PMID:1193162](#), [PMID:1756776](#), [PMID:1965304](#), [PMID:3335022](#), [PMID:4316953](#), [PMID:6538202](#), [PMID:6971834](#), [PMID:7065527](#), [PMID:10752125](#), [PMID:11416159](#), [PMID:17395773](#), [PMID:19657000](#), [PMID:21637780](#), [PMID:25877200](#), [PMID:25903999](#), [PMID:26477663](#), [PMID:31869419](#), [PMID:33389257](#)

Comments: Virology: Not susceptible to infection by SARS coronavirus 2 (SARS-CoV-2) (COVID-19) (PubMed=33389257)., Senescence: Capable of attaining 42-46 population doublings before the onset of senescence (ATCC=CCL-171). Senescences at 26 PDL (PubMed=17395773)., Biotechnology: Used for the production of the live zoster vaccine (Trade name: Zostavax)., Biotechnology: Used for the production of the live varicella virus vaccine (Trade name: Varivax)., Biotechnology: Used for the production of the Hepatitis A vaccines Avaxim, Epaxal, Havrix and Vaqta., Biotechnology: Used for the production of the Human Diploid Cell Vaccine (HDCV) against rabies (Trade name: Imovax Rabies)., Group: Vaccine production cell line.

Category: Finite cell line

Organism: Homo sapiens (Human)

Name: MRC-5

Synonyms: MRC5, MRC 5, MRCV, MRC-V, Medical Research Council cell strain-5

Cross References: BTO:BTO_0001590, CLO:CLO_0007865, CLO:CLO_0050055, EFO:EFO_0002835, MCCL:MCC:0000336, CLDB:cl3563, CLDB:cl3564, CLDB:cl3566, CLDB:cl3567, CLDB:cl3568, CLDB:cl5168, AddexBio:T0016002/4922, ATCC:CCL-171, BCRC:60023, BCRJ:0180, BioSample:SAMN01821580, BioSample:SAMN01821702, BioSample:SAMN01821735, BioSample:SAMN03473183, CCRID:1101HUM-PUMC000044, CCRID:1102HUM-NIFDC00002, CCRID:3101HUMGNHu41, CCRID:3101HUMSCSP5040, CCRID:4201HUM-CCTCC00032, CCRID:5301HUM-KCB89023YJ, CCTCC:GDC0032, ChEMBL-Cells:ChEMBL3308499, ChEMBL-Targets:ChEMBL614181, CLS:300395, ECACC:97112601, FCS-free:179-2-338-1-16-3, GEO:GSM248209, GEO:GSM248210, GEO:GSM520665, GEO:GSM520666, GEO:GSM520667, GEO:GSM579888, GEO:GSM579889, GEO:GSM607969, GEO:GSM3738752, GEO:GSM3738753, IBRC:C10313, ICLC:HL95001, IZSLER:BS CL 68, JCRB:IFO50073, JCRB:JCRB9008, KCB:KCB 200412YJ, KCB:KCB 89023YJ, KCLB:10171, Lonza:52, NCBI_Iran:C125, PRIDE:PXD001909, PRIDE:PXD013120, PRIDE:PXD023286, PubChem_Cell_line:CVCL_0440, RCB:RCB0211, RCB:RCB0218, Wikidata:Q3273166

ID: CVCL_0440

Vendor: CLS

Catalog Number: 300395

Record Creation Time: 20220624T071027+0000

Record Last Update: 20260913T010556+0000

Ratings and Alerts

No rating or validation information has been found for MRC-5.

Warning: Discontinued: ECACC; 97112601

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Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 2876 mentions in open access literature.

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

Donada AJG, et al. (2026) Tabernaemontana catharinensis: A Source of Indole Alkaloids With Potential Activity as Chemotherapeutic Agents. Chemistry & biodiversity, 23(4), e03532.

Chitkara S, et al. (2026) ER-localized ceramide accumulation contributes to replicative senescence. Cell chemical biology, 33(5), 649.

Machii S, et al. (2026) Senescent cells acquire resistance to cystine deprivation-induced ferroptosis via the PPAR γ -PDK4-phosphorylated PDH axis. FEBS letters, 600(12), 1801.

An K, et al. (2026) Hypoxia-activated PROTAC for dual inhibition of FAK and EGFR enables synergistic mechano-chemical cancer therapy. Neoplasia (New York, N.Y.), 79, 101328.

Liu YT, et al. (2026) Synthesis of 2-Aryl(alkyl)benzimidazole Hydroxamic Acids as HDAC Inhibitors with Anti-Angiogenesis Properties. ChemMedChem, 21(8), e202500984.

Sawaya BE, et al. (2026) CK1 γ -dependent SNAPIN dysregulation drives lysosomal failure in HIV-1 Vpr-exposed neurons: A targetable mechanism in HAND. iScience, 29(2), 114544.

Yu PR, et al. (2026) Dietary Quercetin-3-Glucuronide Mitigates Oxidative Stress, Inflammation, and Fibroblast Transition by Regulating Nrf2 and Autophagy in Pulmonary Fibrosis. Journal of agricultural and food chemistry, 74(21), 16334.

Fisher E, et al. (2026) ASCL1 promotes nuclear shrinkage in transdifferentiation by suppressing NUP37. Stem cell reports, 21(3), 102823.

Hosseini N, et al. (2026) Loss of DDI2 rewires proteostasis through CCN1-driven compensatory autophagy. iScience, 29(3), 115056.

Quaiato de Oliveira H, et al. (2026) Cellular Morphometric Analysis (CellMorph)-a comprehensive imaging-based tool for quantifying cellular phenotype heterogeneity and dynamics across biological processes. The FEBS journal, 293(14), 4185.

Fritz L, et al. (2026) Differentiation-induced reduction in functional diversity restricts the ability of cytomegalovirus-specific CD8 T cells to eliminate virus-infected cells. EBioMedicine, 123, 106107.

Simanihuruk V, et al. (2026) Broad-spectrum antiviral activity of antisense oligonucleotides targeting GBF1 against SARS-CoV-2 and influenza viruses. iScience, 29(3), 114851.

Ning W, et al. (2026) A bispecific nanobody-drug conjugate targeting TROP2 and c-Met for low-concentration, single-dose treatment of pancreatic cancer. Cell reports. Medicine, 7(4), 102688.

Varhoshkova S, et al. (2026) RNA polymerase II drives FUS and EWSR1 exclusion from damaged chromatin. Cell reports, 45(4), 117236.

Sohn J, et al. (2026) Phenylalanyl-tRNA synthetase FARS-1/FARSA balances longevity and immunity by downregulating endogenous mitochondrial double-stranded RNAs.

Molecular cell, 86(12), 2373.

Pyun WY, et al. (2026) Nutrient Availability Dictates Cancer Metabolism-Based Therapeutic Responses to Nononcology Drugs. Cancer research, 86(5), 1194.

Wang Y, et al. (2026) Clu+ transitional alveolar epithelial cells promote lung injury repair and fibrosis progression. British journal of pharmacology, 183(12), 3252.

Ili? M, et al. (2026) Phenolic Profiles and Cytotoxic Activities of Methanolic Extracts From Eight Geranium L. Species. Chemistry & biodiversity, 23(4), e03814.

Chen W, et al. (2026) Broad-spectrum coronavirus inhibition by RSV fusion inhibitors targeting six-helix bundle formation. Life sciences, 394, 124357.

Fisher T, et al. (2026) A cytomegalovirus-encoded lncRNA blocks cell-cycle progression. Molecular cell, 86(7), 1247.