Resource Summary Report

Generated by dkNET on Sep 7, 2026

MCF-7

RRID:CVCL_0031
Type: Cell Line

Proper Citation

RRID:CVCL_0031

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0031

Proper Citation: RRID:CVCL_0031

Description: Cell line MCF-7 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Female

Disease: Invasive breast carcinoma of no special type

Defining Citation: PMID:1000504, PMID:1000505, PMID:1000506, PMID:1911442, PMID:3335022, PMID:3518877, PMID:3702420, PMID:4138511, PMID:4353636, PMID:4357757, PMID:6582512, PMID:6935474, PMID:7228867, PMID:7498097, PMID:7531416, PMID:7842014, PMID:8626706, PMID:8824553, PMID:9242427, PMID:9331090, PMID:9488600, PMID:9671407, PMID:10381137, PMID:10700174, PMID:10862037, PMID:10969801, PMID:11044355, PMID:11078910, PMID:11292682, PMID:11343771, PMID:11416159, PMID:11789735, PMID:12353263, PMID:12661003, PMID:12775708, PMID:12800145, PMID:15002416, PMID:15361840, PMID:15677628, PMID:15748285, PMID:15767549, PMID:15900046, PMID:16142302, PMID:16397213, PMID:16417655, PMID:16541312, PMID:16957166, PMID:17088437, PMID:17157791, PMID:17254797, PMID:17334996, PMID:18386134, PMID:18516279, PMID:19372543, PMID:19582160, PMID:19593635, PMID:19727395, PMID:20070913, PMID:20164919, PMID:20215515, PMID:21247443, PMID:21378333, PMID:22068913, PMID:22278370, PMID:22336246, PMID:22347499, PMID:22384151, PMID:22414580, PMID:22460905, PMID:22585861, PMID:22628656, PMID:23234512, PMID:23285151, PMID:23325432, PMID:23601657, PMID:23671654, PMID:23770244, PMID:23856246, PMID:23868472, PMID:23933261, PMID:24009699, PMID:24094812, PMID:24162158, PMID:24176112, PMID:24279929, PMID:24389870, PMID:24456987, PMID:24618588, PMID:24670534, PMID:25321415, PMID:25485619, PMID:25807930, PMID:25828948, PMID:25877200, PMID:25892236, PMID:25960936, PMID:25984343, PMID:26026074, PMID:26055192, PMID:26116361, PMID:26330541, PMID:26589293, PMID:27331101, PMID:27362937,

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Comments: Donor information: Helen Marion Mallon (sister Catherine Frances), the patient from which this cell line is derived was a nun at the Immaculate Heart of Mary convent in Monroe, Michigan (CelloPub=CLPUB00336)., Anecdotal: Used in a study utilising the fruit fly's olfactory system to detect cancer cells (PubMed=24389870)., Anecdotal: Have been flown in space on Foton-12 to study cytoskeleton architecture in microgravity (PubMed=11292682; PubMed=15002416)., Anecdotal: First hormone-responsive breast cancer cell line to have been established., Population: Caucasian., Part of: NCI-60 cancer cell line panel., Part of: MD Anderson Cell Lines Project., Part of: KuDOS 95 cell line panel., Part of: JWGray breast cancer cell line panel., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: ICBP43 breast cancer cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: ENCODE project common cell types; tier 2., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Group: Space-flown cell line (cellonaut).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: MCF-7

Synonyms: MCF 7, MCF.7, MCF7, Michigan Cancer Foundation-7, ssMCF-7, ssMCF7, MCF7/WT, MCF7-CTRL, IBMF-7

Cross References: BTO:BTO_0000093, CLO:CLO_0007601, CLO:CLO_0007605, CLO:CLO_0007606, CLO:CLO_0050868, EFO:EFO_0001203, MCCL:MCC:0000307, CLDB:cl3366, CLDB:cl3367, CLDB:cl3368, CLDB:cl3369, CLDB:cl3370, CLDB:cl3371, CLDB:cl3372, CLDB:cl3373, CLDB:cl3375, Abcam:ab257303, Abcam:ab271144, Abcam:ab277916, Abcam:ab288560, ABM:T8978, AddexBio:C0006008/402, ArrayExpress:E-MTAB-38, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ArrayExpress:E-MTAB-11134, ArrayExpress:E-TABM-157, ArrayExpress:E-TABM-244, ATCC:HTB-22, BCRC:60436, BCRJ:0162, BioGRID_ORCS_Cell_line:940, BioSample:SAMN01821575, BioSample:SAMN01821646, BioSample:SAMN01821698, BioSample:SAMN03473276, BioSample:SAMN05292458, BioSample:SAMN10988179, cancercelllines:CVCL_0031, CCRID:1101HUM-PUMC000013, CCRID:1101HUM-PUMC000328, CCRID:3101HUMSCSP531, CCRID:3101HUMTCHu74, CCRID:4201HUM-CCTCC00055, CCTCC:GDC0055, Cell_Model_Passport:SIDM00148, ChEMBL-Cells:CHEMBL3308403, ChEMBL-Targets:CHEMBL387, CLS:300273, Cosmic:687490, Cosmic:755293, Cosmic:809239, Cosmic:871143, Cosmic:875876, Cosmic:877449, Cosmic:894096, Cosmic:897419, Cosmic:904373, Cosmic:905946, Cosmic:912001, Cosmic:921976, Cosmic:923059, Cosmic:934534, Cosmic:944293, Cosmic:947352, Cosmic:949189, Cosmic:970089, Cosmic:979723, Cosmic:991328, Cosmic:997916, Cosmic:1000123, Cosmic:1010932, Cosmic:1017161, Cosmic:1018463, Cosmic:1019310, Cosmic:1046936, Cosmic:1047712, Cosmic:1066224, Cosmic:1071901, Cosmic:1092612, Cosmic:1102382,

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ID: CVCL_0031

Record Creation Time: 20220427T220750+0000

Record Last Update: 20260905T181113+0000

Ratings and Alerts

No rating or validation information has been found for MCF-7.

Warning: Discontinued: JCRB; NIHS0200
Donor information: Helen Marion Mallon (sister Catherine Frances), the patient from which this cell line is derived was a nun at the Immaculate Heart of Mary convent in Monroe, Michigan (CelloPub=CLPUB00336)., Anecdotal: Used in a study utilising the fruit fly's olfactory system to detect cancer cells (PubMed=24389870)., Anecdotal: Have been flown in space on Foton-12 to study cytoskeleton architecture in microgravity (PubMed=11292682; PubMed=15002416)., Anecdotal: First hormone-responsive breast cancer cell line to have been established., Population: Caucasian., Part of: NCI-60 cancer cell line panel., Part of: MD Anderson Cell Lines Project., Part of: KuDOS 95 cell line panel., Part of: JWGray breast cancer cell line panel., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: ICBP43 breast cancer cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: ENCODE project common cell types; tier 2., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Group: Space-flown cell line (cellonaut). Warning: Discontinued: ATCC; CRL-12584
Donor information: Helen Marion Mallon (sister Catherine Frances), the patient from which

this cell line is derived was a nun at the Immaculate Heart of Mary convent in Monroe, Michigan (CelloPub=CLPUB00336)., Anecdotal: Used in a study utilising the fruit fly's olfactory system to detect cancer cells (PubMed=24389870)., Anecdotal: Have been flown in space on Foton-12 to study cytoskeleton architecture in microgravity (PubMed=11292682; PubMed=15002416)., Anecdotal: First hormone-responsive breast cancer cell line to have been established., Population: Caucasian., Part of: NCI-60 cancer cell line panel., Part of: MD Anderson Cell Lines Project., Part of: KuDOS 95 cell line panel., Part of: JWGray breast cancer cell line panel., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: ICBP43 breast cancer cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: ENCODE project common cell types; tier 2., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Group: Space-flown cell line (cellonaut).

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 27878 mentions in open access literature.

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

Ziegler Y, et al. (2026) JAK/STAT1-interferon-ISGylation networks in breast cancer resistance to inhibitors of FOXM1 and CDK4/6. NPJ breast cancer, 12(1).

Przanowska R, et al. (2026) IL-6R blockade with tocilizumab disrupts pericyte- and tumor cell-driven IL-6/STAT3 signaling, enhancing docetaxel efficacy in ER+ breast cancer. bioRxiv : the preprint server for biology.

Essa AF, et al. (2026) Multitarget Antioxidant and Anticancer Potential of Euphorbia greenwayi Essential Oil: Phytochemical Profiling and Molecular Insights. Chemistry & biodiversity, 23(2), e01894.

Kativa M, et al. (2026) Naringin Potentiates Docetaxel-Induced Apoptosis in Breast Cancer Cells via Transient Interaction with the TUBB3 GTP-Binding Site. Cell biochemistry and biophysics.

Trivedi S, et al. (2026) Estrogen Induced Regulation of Mucosal-Associated Invariant T Cells in Asthma. Journal of immunology research, 2026(1), e8201923.

Harmanda B, et al. (2026) Spatial control of Keratin 8 phosphorylation by Aurora B facilitates cytokinesis in cancer cells of epithelial origin. The FEBS journal, 293(14), 4149.

Lisci M, et al. (2026) Functional nutrient-genetic profiling reveals biotin and FBXW7 are essential to bypass glutamine addiction. Molecular cell, 86(5), 901.

Dai Y, et al. (2026) tRF-1432 orchestrates RBMS1-IMPDH2 regulatory control to drive purine-dependent chemoresistance in breast cancer. Cancer letters, 646, 218408.

Tong Q, et al. (2026) Detachment-Induced FAK-STAT3-NNMT Inhibits CTCs Anoikis to Promote Breast Cancer Metastasis by Enhancing Fatty Acid Oxidation. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(29), e22837.

Yang T, et al. (2026) Covalent Inhibition of SHMT2 by Gambogic Acid Induces Ferroptosis Through Mitochondrial Collapse in Triple-Negative Breast Cancer. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(42), e20252.

????cka M, et al. (2026) Engineering Cathepsin S Selective Chemical Probes and Antibody-Drug Conjugates through Substrate Profiling with Unnatural Amino Acids. Journal of medicinal chemistry, 69(14), 16550.

Barzegari O, et al. (2026) A Bidirectional Survivin Promoter Enhances IL-2, GM-CSF, and Apoptin Co-expression for Breast Cancer Gene Therapy. American journal of reproductive immunology (New York, N.Y. : 1989), 95(5), e70226.

Vendramin R, et al. (2026) Nonsense-mediated mRNA decay inhibition reshapes the cancer immunopeptidome. Immunity, 59(5), 1398.

Mehandzhiyski AY, et al. (2026) Cytotoxic Profiling of 3',4',5'-Trimethoxychalcones Reveals Cell-Line-Dependent Cytotoxic Activity: An In Vitro and In Silico Study. Chemistry & biodiversity, 23(5), e71336.

Wang L, et al. (2026) A Bioinspired Three-Dimensional High-Curvature Nano-Interface Integrated Microfluidic Chip for Small Extracellular Vesicles Enrichment and Machine Learning-Assisted Prostate Cancer Precision Diagnosis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e21178.

Kano M, et al. (2026) Human epidermal growth factor receptor 3-targeted near-infrared photoimmunotherapy in a xenograft mouse model of breast cancer. BMC cancer, 26(1).

Luque M, et al. (2026) Cancer-associated fibroblast-derived protein S100-A11 influences the response to anti-HER2 therapies in HER2-positive breast cancer. Neoplasia (New York, N.Y.), 78, 101318.

Dutta S, et al. (2026) MMP9 drives cancer invasion by mediating integrin membrane trafficking and stabilization. The FEBS journal.

Rurka P, et al. (2026) A novel quinazolinone insulin receptor inhibitor and its synergy with an EGFR inhibitor in glucose-driven glioblastoma. Molecular oncology.

Chen Y, et al. (2026) Ceritinib induces ferroptosis via TRIM21-mediated GLUT1 ubiquitination and AMPK-driven metabolic reprogramming in breast cancer. iScience, 29(6), 115846.