

Resource Summary Report

Generated by [RRID](#) on Aug 27, 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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[PMID:29273624](#), [PMID:30894373](#), [PMID:30971826](#), [PMID:31068700](#), [PMID:31698574](#),
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[PMID:35839778](#), [PMID:38861359](#)

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, cancercellines:CVCL_0031, CCRID:1101HUM-PUMC000013, CCRID:1101HUM-PUMC000328, CCRID:3101HUMSCSP531, CCRID:3101HUMTCHu74, CCRID:4201HUM-CCTCC000055, 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: 20260815T234552+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
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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 [RRID](#) .

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.

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