

MCF-7 | 300273

Cell line

Description	MCF7, human breast cancer cell line, derived from a mammary carcinoma of a 69-year-old female patient. MCF7 cells are characterized by their ability to form mammary-like structures in vitro and their sensitivity to anti-estrogenic therapy. MCF7 cells are widely used in breast cancer research, particularly in studies related to hormone therapy and drug resistance. MCF7 cells are a cell line derived from a mammary carcinoma of a 69-year-old female patient. MCF7 cells are characterized by their ability to form mammary-like structures in vitro and their sensitivity to anti-estrogenic therapy. MCF7 cells are widely used in breast cancer research, particularly in studies related to hormone therapy and drug resistance. MCF7 cells are a cell line derived from a mammary carcinoma of a 69-year-old female patient. MCF7 cells are characterized by their ability to form mammary-like structures in vitro and their sensitivity to anti-estrogenic therapy. MCF7 cells are widely used in breast cancer research, particularly in studies related to hormone therapy and drug resistance.
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Organism	Human
Tissue	Breast
Disease	Breast cancer
Metastatic site	Various sites including lung, liver, bone, and brain.
Synonyms	MCF 7, MCF.7, MCF7, MCF7-7, ssMCF-7, ssMCF7, MCF7/WT, MCF7-CTRL, IBMF-7

Cell characteristics

Age	69 years
Gender	Female
Ethnicity	White
Morphology	Epithelial cells
Growth properties	Adherent, slow growing

Cell authentication

Citation	MCF-7 (Cytion 300273)
Biosafety level	1

Product sheet

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NCBI_TaxID 9606

CellosaurusAccession CVCL_0031

XXXXXXXXXX XXXX-XXXXXXXXXXXXXXXXXX

Receptors expressed XXXXX XXXXXXX XXX XXXXXXX XXXXXXXXXX XXXX wildtype X-variant, XXX XXX XXX XXXXXXXXXX

Protein expression P53 XXXXX, pGP9.5 XXXXX, CEA XXXXX

Isoenzymes PGM3, 1, PGM1, 1-2, ES-D, 1-2, AK-1, 1, GLO-1, 1-2, G6PD, B,

Oncogenes Wnt7h +, Tx-4

Tumorigenic XX, XXXXXXX XXXXXXX

Products XXXXXXX XXXXXXX XXXXX XXXXX XXXX XXXXXXXXXX (IGFBP) BP-2, BP-4, BP-5

Mutational profile TP53 wt

Karyotype XXXX XXXXXXXXXX XXXX XXX XXX XXXXXXXXXX XXXXXXXXXX XXXX XXXXXXXX 2S XXXXX X-1%. XXX 29 XXX 34 XXXXXXX

XXXXXXXXXX

Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (XXXX XXXXXXX Cytion 820100a)

Supplements XXXX XXXXXXX 10% FBS X-1% NEAA

Dissociation Reagent XXXXXXX

Doubling time 24 XXXX

Subculturing XXX XXX XXXXXXX XXXX XXXXXXX XXXXXXX XXXXX XXXX X-PBS XXX XXXX XXXXXXXXXX XXXX XXXXXXX T25, XXXXXXX X-3-5 X" X-PBS, XXXXXXX XXX 3 XXXX. XXXX XXX XXXXXXX XXXXXXX, XXXX XXX XXXXXXX XXXXXXX XXX XXXXXXX XXXX XXXXXXX XXXXXXX XXXX XXXX XXXXXXX XXXXXXX XXXX

Seeding density 3×10^4 "X"/XX

XXXX MCF-7 | 300273

XXXX XXXXX / XXXXXX XXXX / HLA

Sterility

XXXX XXXXXXXXXXXX XXXX XXXXXXXX XXXXXXXX XXXXXXXX PCR XXXXXXX XXXXX XXXXXXXXXXXX XXXXXXXX XXXXXXXXXXXX.
XXXX XXXXXXX XXXX XXXXX XXXXXXX, XXXXXXXX XX XXXX, XXXXXXXX XXXXX XXXXXXX XXXXXXX XXXXXXXXXXX XXXXXXX.

XXXXX HLA

- A*:** 02:01:01
- B*:** 18:01:01, 44:02:01
- C*:** '05:XX
- DRB1*:** 03:01:01, 15:01:01
- DQA1*:** '01:02:01, '05:01:01
- DQB1*:** '02:01:01, '06:02:01
- DPB1*:** '02:01:02, '04:01:01
- E:** 01:01:01