

Resource Summary Report

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

IMR-90

RRID:CVCL_0347

Type: Cell Line

Proper Citation

ATCC Cat# CCL-186, RRID:CVCL_0347

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0347

Proper Citation: ATCC Cat# CCL-186, RRID:CVCL_0347

Description: Cell line IMR-90 is a Finite cell line with a species of origin Homo sapiens (Human)

Sex: Female

Defining Citation: [PMID:211143](#), [PMID:535915](#), [PMID:738322](#), [PMID:841339](#), [PMID:1574572](#), [PMID:1756776](#), [PMID:3016668](#), [PMID:3335022](#), [PMID:6256643](#), [PMID:6525431](#), [PMID:6538202](#), [PMID:6887978](#), [PMID:7065527](#), [PMID:7253718](#), [PMID:11416159](#), [PMID:20215515](#), [PMID:22108792](#), [PMID:23325432](#)

Comments: Senescence: Capable of attaining 58 population doublings before the onset of senescence (ATCC=CCL-186)., Population: Caucasian., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: International Histocompatibility Workshop cell lines., Part of: ENCODE project common cell types; tier 2.

Category: Finite cell line

Organism: Homo sapiens (Human)

Name: IMR-90

Synonyms: IMR 90, IMR90, Institute for Medical Research-90, I90

Cross References: BTO:BTO_0001229, CLO:CLO_0006951, CLO:CLO_0029276, CLO:CLO_0029279, CLO:CLO_0029284, CLO:CLO_0029291, CLO:CLO_0029294, CLO:CLO_0029328, CLO:CLO_0029330, CLO:CLO_0029331, CLO:CLO_0029332, CLO:CLO_0029336, EFO:EFO_0001196, MCCL:MCC:0000243, CLDB:cl2889, CLDB:cl2890, 4DN:4DNSRI51KRED, 4DN:4DNSRXXGU3CH, AddexBio:P0016019/4978,

ATCC:CCL-186, ATCC:CRL-7931, BCRC:60204, BCRJ:0118,
BioSample:SAMN03471461, BioSample:SAMN03472414, cancercellines:CVCL_0347,
CCRID:3101HUMSCSP5013, CCRID:5301HUM-KCB17066YJ, ChEMBL-
Cells:ChEMBL3307985, ChEMBL-Targets:ChEMBL612577, CLS:305216, Coriell:I90-10,
Coriell:I90-15, Coriell:I90-19, Coriell:I90-24, Coriell:I90-26, Coriell:I90-33, Coriell:I90-40,
Coriell:I90-52, Coriell:I90-53, Coriell:I90-78, Coriell:I90-79, Coriell:I90-83,
ECACC:85020204, ENCODE:ENCBS007TVF, ENCODE:ENCBS048GPK,
ENCODE:ENCBS048TNH, ENCODE:ENCBS073JZM, ENCODE:ENCBS192DLO,
ENCODE:ENCBS275EWD, ENCODE:ENCBS357USI, ENCODE:ENCBS361XFK,
ENCODE:ENCBS364NFD, ENCODE:ENCBS368ENC, ENCODE:ENCBS369ENC,
ENCODE:ENCBS370ENC, ENCODE:ENCBS371ENC, ENCODE:ENCBS371NWL,
ENCODE:ENCBS372ENC, ENCODE:ENCBS373ENC, ENCODE:ENCBS379ENC,
ENCODE:ENCBS410ENC, ENCODE:ENCBS411ENC, ENCODE:ENCBS412ENC,
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ENCODE:ENCBS470SXX, ENCODE:ENCBS472JFT, ENCODE:ENCBS486FIC,
ENCODE:ENCBS532ZGJ, ENCODE:ENCBS562LLK, ENCODE:ENCBS598YLQ,
ENCODE:ENCBS648SCY, ENCODE:ENCBS683AVF, ENCODE:ENCBS754TWW,
ENCODE:ENCBS780OTZ, ENCODE:ENCBS981IKS, ENCODE:ENCBS981UBX,
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GEO:GSM827198, GEO:GSM832837, GEO:GSM832838, GEO:GSM862724,
GEO:GSM892307, GEO:GSM909321, GEO:GSM909338, GEO:GSM909339,
GEO:GSM923447, GEO:GSM927235, GEO:GSM935403, GEO:GSM935404,
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GEO:GSM1186664, GEO:GSM1204464, GEO:GSM1296454, GEO:GSM1463270, GEO:GSM2988906, IPD-IMGT/HLA:11782, IZSLER:BS CL 107, JCRB:JCRB0516, JCRB:JCRB9054, KCB:KCB 2017066YJ, KCLB:10186, Lonza:745, PRIDE:PXD000134, Progenetix:CVCL_0347, PubChem_Cell_line:CVCL_0347, Wikidata:Q54897669

ID: CVCL_0347

Vendor: ATCC

Catalog Number: CCL-186

Record Creation Time: 20220427T220635+0000

Record Last Update: 20260905T180841+0000

Ratings and Alerts

No rating or validation information has been found for IMR-90.

Warning: Discontinued: ATCC; CRL-7931

Senescence: Capable of attaining 58 population doublings before the onset of senescence (ATCC=CCL-186)., Population: Caucasian., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: International Histocompatibility Workshop cell lines., Part of: ENCODE project common cell types; tier 2. **Warning:** Discontinued: Coriell; I90-52

Senescence: Capable of attaining 58 population doublings before the onset of senescence (ATCC=CCL-186)., Population: Caucasian., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: International Histocompatibility Workshop cell lines., Part of: ENCODE project common cell types; tier 2. **Warning:** Discontinued: Coriell; I90-78

Senescence: Capable of attaining 58 population doublings before the onset of senescence (ATCC=CCL-186)., Population: Caucasian., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: International Histocompatibility Workshop cell lines., Part of: ENCODE project common cell types; tier 2.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 922 mentions in open access literature.

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

Cortolezzis Y, et al. (2026) RPA hyperphosphorylation hinders the resolution of R-loops and G-quadruplex-associated R-loops during RAS-driven senescence. Nucleic acids research, 54(7).

D'Ambrosio M, et al. (2026) Electrophilic compound screening identifies GPX4-dependent ferroptosis as a senescence vulnerability. *Nature cell biology*, 28(5), 915.

Nathan N, et al. (2026) Tumor-draining lymph nodes in ovarian cancer lack germinal centers but harbor tumor-reactive memory B cells clonally linked to intra-tumoral B cells. *Immunity*, 59(6), 1743.

Moon BS, et al. (2026) Brain corticogenesis promotes SARS-CoV-2 neuro-glial tropism through lipid-dependent viral replication. *Stem cell reports*, 103020.

Zhu L, et al. (2026) Mitochondrial glutamine import sustains electron transport chain integrity independently of glutaminolysis in cancer. *Molecular cell*, 86(1), 150.

Zhang M, et al. (2026) Decreased Glucose Metabolism and Declined Chaperones Are Unique Features Required for the Survival of Senescent Fibroblasts and Pyruvate Dehydrogenase Is a Potent Senolytic Target. *Aging cell*, 25(3), e70434.

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.

Irie K, et al. (2026) Multifaceted role of POU5F1P1 in regulating its parental stem cell gene, POU5F1. *iScience*, 29(4), 115137.

Etoh K, et al. (2026) FOXF1/2 establish a senescence-specific enhancer landscape to activate the pro-inflammatory senescence-associated secretory phenotype. *Molecular cell*, 86(8), 1441.

Qasem H, et al. (2026) Cell-Penetrating Peptide-Mediated siRNA Targeting of LDHC Suppresses Tumor Growth in a Triple-Negative Breast Cancer Zebrafish Xenograft Model. *Pharmaceutics*, 18(1).

Tankka AT, et al. (2026) Integrative CRISPR Screening and RNA Analyses Discover an Essential Role for PUF60 Interactions with 3' Splice Sites in Cancer Progression. *Cancer research*, 86(7), 1586.

Sahu SK, et al. (2026) ZNF512B safeguards genome integrity at regulatory regions to repress the SASP and inflammation. *Cell stem cell*, 33(7), 1191.

Wang K, et al. (2025) Tobacco Smoking Rewires Cell Metabolism by Inducing GAPDH Succinylation to Promote Lung Cancer Progression. *Cancer research*, 85(15), 2838.

Zhang T, et al. (2025) Identification of miR-106b-5p as a senolytic miRNA. *EBioMedicine*, 117, 105810.

Xu C, et al. (2025) Conversion of IscB and Cas9 into RNA-guided RNA editors. *Cell*.

Chu Y, et al. (2025) A rapid imaging-based screen for induced-proximity degraders identifies a potent degrader of oncoprotein SKP2. *Nature biotechnology*.

Rajesh A, et al. (2025) Targeting CyclinD1-CDK6 to Mitigate Senescence-Driven Inflammation and Age-Associated Functional Decline. *bioRxiv : the preprint server for biology*.

Grossi E, et al. (2025) A lncRNA-mediated metabolic rewiring of cell senescence. *Cell reports*, 44(6), 115747.

Bravo JI, et al. (2025) A multi-omics analysis of human fibroblasts overexpressing an Alu transposon reveals widespread disruptions in aging-associated pathways. *bioRxiv* : the preprint server for biology.

Zhu T, et al. (2025) Endogenous YAP/TAZ partitioning in TEAD condensates orchestrates the Hippo response. *Molecular cell*.