Resource Summary Report

Generated by NIF on Sep 1, 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, cancercelllines: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, ENCODE:ENCBS412SDE, ENCODE:ENCBS413ENC, ENCODE:ENCBS414ENC, ENCODE:ENCBS415ENC, ENCODE:ENCBS416ENC, ENCODE:ENCBS460CLV, ENCODE:ENCBS470SXX, ENCODE:ENCBS472JFT, ENCODE:ENCBS486FIC, ENCODE:ENCBS532ZGJ, ENCODE:ENCBS562LLK, ENCODE:ENCBS598YLQ, ENCODE:ENCBS648SCY, ENCODE:ENCBS683AVF, ENCODE:ENCBS754TWW, ENCODE:ENCBS780OTZ, ENCODE:ENCBS981IKS, ENCODE:ENCBS981UBX, ENCODE:ENCBS982GUC, ENCODE:ENCBS992YMT, GEO:GSM432687, GEO:GSM432688, GEO:GSM432689, GEO:GSM432690, GEO:GSM432691, GEO:GSM432692, GEO:GSM438363, GEO:GSM438364, GEO:GSM468792, GEO:GSM468801, GEO:GSM469965, GEO:GSM469966, GEO:GSM469967, GEO:GSM469968, GEO:GSM469970, GEO:GSM469973, GEO:GSM469974, GEO:GSM469975, GEO:GSM521866, GEO:GSM521868, GEO:GSM521869, GEO:GSM521870, GEO:GSM521871, GEO:GSM521873, GEO:GSM521874, GEO:GSM521875, GEO:GSM521877, GEO:GSM521878, GEO:GSM521879, GEO:GSM521880, GEO:GSM521881, GEO:GSM521883, GEO:GSM521884, GEO:GSM521885, GEO:GSM521886, GEO:GSM521887, GEO:GSM521889, GEO:GSM521890, GEO:GSM521892, GEO:GSM521893, GEO:GSM521894, GEO:GSM521895, GEO:GSM521897, GEO:GSM521898, GEO:GSM521899, GEO:GSM521900, GEO:GSM521901, GEO:GSM521902, GEO:GSM521903, GEO:GSM521904, GEO:GSM521906, GEO:GSM521907, GEO:GSM521908, GEO:GSM521909, GEO:GSM521911, GEO:GSM521912, GEO:GSM521913, GEO:GSM521914, GEO:GSM521915, GEO:GSM521917, GEO:GSM521918, GEO:GSM521919, GEO:GSM521921, GEO:GSM521922, GEO:GSM521923, GEO:GSM521924, GEO:GSM521925, GEO:GSM521926, GEO:GSM521927, GEO:GSM521928, GEO:GSM521929, GEO:GSM521930, GEO:GSM521931, GEO:GSM521932, GEO:GSM521933, GEO:GSM530665, GEO:GSM530666, GEO:GSM541279, GEO:GSM541280, GEO:GSM604470, GEO:GSM604471, GEO:GSM723024, GEO:GSM752986, GEO:GSM752987, GEO:GSM818007, GEO:GSM818008, GEO:GSM818012, GEO:GSM818013, GEO:GSM818017, GEO:GSM827198, GEO:GSM832837, GEO:GSM832838, GEO:GSM862724, GEO:GSM892307, GEO:GSM909321, GEO:GSM909338, GEO:GSM909339, GEO:GSM923447, GEO:GSM927235, GEO:GSM935403, GEO:GSM935404, GEO:GSM935513, GEO:GSM935519, GEO:GSM935624, GEO:GSM942307, GEO:GSM942928, GEO:GSM959044, GEO:GSM1003612, GEO:GSM1003613, GEO:GSM1003614, GEO:GSM1003615, GEO:GSM1003623, GEO:GSM1008586, GEO:GSM1055800, GEO:GSM1055801, GEO:GSM1068140, GEO:GSM1068141, GEO:GSM1154021, GEO:GSM1154022, GEO:GSM1154023, GEO:GSM1154024,

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: 20260829T234319+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 NIF .

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.

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.

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

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.

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).

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

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

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

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

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

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.