

Resource Summary Report

Generated by [NIF](#) on Aug 6, 2026

RWPE-1

RRID:CVCL_3791

Type: Cell Line

Proper Citation

BCRJ Cat# 0389, RRID:CVCL_3791

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_3791

Proper Citation: BCRJ Cat# 0389, RRID:CVCL_3791

Description: Cell line RWPE-1 is a Transformed cell line with a species of origin Homo sapiens (Human)

Sex: Male

Defining Citation: [PMID:8977636](#), [PMID:9214605](#), [PMID:9214606](#), [PMID:20215515](#), [PMID:22275356](#), [PMID:25877200](#), [PMID:27397505](#), [PMID:30305041](#), [PMID:30787054](#)

Comments: Population: Caucasian., Part of: ENCODE project common cell types; tier 3., Group: Patented cell line.

Category: Transformed cell line

Organism: Homo sapiens (Human)

Name: RWPE-1

Synonyms: RWPE1

Cross References: BTO:BTO_0003709, CLO:CLO_0008905, EFO:EFO_0002323, ArrayExpress:E-MTAB-38, ArrayExpress:E-MTAB-3610, ATCC:CRL-3607, ATCC:CRL-11609, BCRJ:0389, BioSample:SAMN03470832, BioSample:SAMN05292437, BioSample:SAMN07709991, BioSample:SAMN07709992, BioSample:SAMN07709993, BioSample:SAMN07709994, BioSample:SAMN07709995, BioSample:SAMN07709996, BioSample:SAMN07709997, cancercellines:CVCL_3791, CCRID:3101HUMGNHu37, CCRID:3101HUMSCSP5025, CCRID:4201HUM-CCTCC00178, CCTCC:GDC0178, Cell_Model_Passport:SIDM00020, ChEMBL-Cells:ChEMBL4295468, ChEMBL-Targets:ChEMBL4296492, CLS:305217, EGA:EGAS00001000978, ENCODE:ENCBS124FCL, ENCODE:ENCBS192LWI, ENCODE:ENCBS263AAA,

ENCODE:ENCBS875FPF, GEO:GSM827387, GEO:GSM1008595, GEO:GSM1374860, GEO:GSM1670396, IGRhCellID:RWPE1, Lonza:870, Pharmacodb:RWPE1_1336_2019, Progenetix:CVCL_3791, PubChem_Cell_line:CVCL_3791, Wikidata:Q54951497

ID: CVCL_3791

Vendor: BCRJ

Catalog Number: 0389

Record Creation Time: 20220427T221510+0000

Record Last Update: 20260802T003457+0000

Ratings and Alerts

No rating or validation information has been found for RWPE-1.

No alerts have been found for RWPE-1.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 723 mentions in open access literature.

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

Fu H, et al. (2026) A smart gene circuit for precise regulation of tumor cell behavior. Synthetic and systems biotechnology, 11, 237.

Zhang Y, et al. (2025) Ezetimibe Engineered L14-8 Suppresses Advanced Prostate Cancer by Activating PLK1/TP53-SAT1-Induced Ferroptosis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(29), e04192.

Dathathri E, et al. (2025) PSA Secretion from Single Circulating Tumor Cells of Metastatic Castration-Naïve Prostate Cancer Patients. Cancer research communications, 5(8), 1359.

Diao Y, et al. (2025) A novel biochip-based liquid biopsy for extracellular vesicle RNA detection in prostate cancer. Cancer biology & therapy, 26(1), 2593744.

Parihar K, et al. (2025) Tissue-dependent mechanosensing by cells derived from human tumors. npj biological physics and mechanics, 2(1), 19.

Alaimo A, et al. (2025) TRPM8 levels determine tumor vulnerability to channel agonists. Molecular oncology.

San Martin R, et al. (2025) Amorphous calcium phosphate-coated surfaces as a model for bone microenvironment in prostate cancer. Heliyon, 11(3), e41929.

Dorji JP, et al. (2025) c-MYC mRNA destabilization inhibited lethal pancreatic cancer in vivo with significant survival outcomes. *Frontiers in pharmacology*, 16, 1630476.

Wang Y, et al. (2025) Trillin inhibits MAP3K11/NF- κ B/COX-2 signaling pathways through upregulation of miR-145-5p in castration-resistant prostate cancer. *iScience*, 28(2), 111505.

Dahiya UR, et al. (2025) Disrupting the interaction between androgen receptor and its coregulator WDR77 delays the growth of treatment-resistant prostate cancer. *Cell reports*, 44(9), 116235.

Kirthika P, et al. (2025) Off-pore Nucleoporin sPOM121 Transcriptionally Propels β -Catenin-driven Tumor Progression and Immune Escape in Prostate Cancer. *Cancer discovery*, 15(11), 2374.

Lin C, et al. (2025) Cholesterol metabolism regulated by CAMKK2-CREB signaling promotes castration-resistant prostate cancer. *Cell reports*, 44(6), 115792.

Dathathri E, et al. (2025) Secretome Analysis of Prostate Cancer Cell Lines Reveals Cell Cycle-Dependent PSA Secretion and Potential Biomarkers. *Cancers*, 17(5).

Hirani R, et al. (2025) BCL2 drives castration resistance in castration-sensitive prostate cancer by orchestrating reciprocal crosstalk between oncogenic pathways. *Cell reports*, 44(6), 115779.

Dyshlovoy SA, et al. (2025) Anticancer activity of triterpene glycosides from the sea star *Solaster pacificus*. *Scientific reports*, 15(1), 28410.

Huang Y, et al. (2025) Development and validation of a kinase-related gene signature as a novel diagnostic and prognostic model for prostate cancer. *Biochimica et biophysica acta. Molecular basis of disease*, 1871(4), 167722.

Cheng B, et al. (2025) Induction of ferroptosis in prostate cancer by CCDC719-13 via TRIM21-mediated ubiquitination of SLC7A11. *Cell death and differentiation*.

Guo X, et al. (2025) tRF-21LeuTAA Promotes Oxidative Stress by Altering Glutathione Metabolic Enzymes to Support Prostate Cancer Progression. *Cancer research*, 85(23), 4787.

Deng W, et al. (2025) Mechanistic Insights Into METTL1/WDR4-Mediated m7G Modification in Prostate Cancer Progression and Its Potential as a Therapeutic Target. *Journal of biochemical and molecular toxicology*, 39(11), e70546.

Awad D, et al. (2024) Adipose Triglyceride Lipase Is a Therapeutic Target in Advanced Prostate Cancer That Promotes Metabolic Plasticity. *Cancer research*, 84(5), 703.