

Resource Summary Report

Generated by [NIF](#) on Sep 22, 2026

RCC4

RRID:CVCL_0498

Type: Cell Line

Proper Citation

RRID:CVCL_0498

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0498

Proper Citation: RRID:CVCL_0498

Description: Cell line RCC4 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Sex unspecified

Disease: Clear cell renal cell carcinoma

Defining Citation: [PMID:10353251](#), [PMID:21258414](#), [PMID:22949125](#), [PMID:27993170](#), [PMID:28489074](#), [PMID:30894373](#), [PMID:31068700](#)

Comments: Population: Caucasian., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: RCC4

Synonyms: RCC-4

Cross References: BTO:BTO_0005691, EFO:EFO_0022430, MCCL:MCC:0000395, cancercellines:CVCL_0498, Cell_Model_Passport:SIDM01851, ChEMBL-Cells:ChEMBL4483144, ChEMBL-Targets:ChEMBL4483279, Cosmic:1352067, Cosmic:1497327, Cosmic:1751968, Cosmic:2520642, DepMap:ACH-001175, PharmacDB:RCC4_1286_2019, Progenetix:CVCL_0498, PubChem_Cell_line:CVCL_0498, TOKU-E:3632, Wikidata:Q54949463

ID: CVCL_0498

Record Creation Time: 20220427T221453+0000

Record Last Update: 20260920T005550+0000

Ratings and Alerts

No rating or validation information has been found for RCC4.

No alerts have been found for RCC4.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Celada L, et al. (2026) PCDHGC3 silencing promotes clear cell renal cell carcinoma metastasis via mTOR/HIF2?? activation, lipid metabolism rewiring, and ferroptosis evasion. Cell death & disease, 17(1).

Secic D, et al. (2026) Dynamic assessment of the allocation of copper to cytochrome c oxidase using size-exclusion chromatography (SEC) combined with inductively coupled plasma mass spectrometry (ICP-MS). The Journal of biological chemistry, 302(4), 111278.

Weber J, et al. (2025) ROR2-specific CAR T cells are effective against hematologic and solid tumors and well tolerated in mice. Cell reports. Medicine, 6(10), 102400.

Shirole NH, et al. (2025) Requirement for Cyclin D1 Underlies Cell-Autonomous HIF2 Dependence in Kidney Cancer. Cancer discovery, 15(7), 1484.

Lombardi O, et al. (2025) Conserved patterns of transcriptional dysregulation, heterogeneity, and cell states in clear cell kidney cancer. Cell reports, 44(1), 115169.

Helleux A, et al. (2025) TFE3 fusions drive oxidative metabolism and ferroptosis resistance in translocation renal cell carcinoma. EMBO molecular medicine, 17(5), 1041.

Wang H, et al. (2025) STBD1 mediates the crosstalk between glycogen and lipid droplets in clear cell renal cell carcinoma. Cell reports, 44(10), 116429.

Riscal R, et al. (2024) Bile Acid Metabolism Mediates Cholesterol Homeostasis and Promotes Tumorigenesis in Clear Cell Renal Cell Carcinoma. Cancer research, 84(10), 1570.

Montemagno C, et al. (2023) A group of novel VEGF splice variants as alternative therapeutic targets in renal cell carcinoma. Molecular oncology.

Liu XD, et al. (2023) SETD2 Loss and ATR Inhibition Synergize to Promote cGAS Signaling and Immunotherapy Response in Renal Cell Carcinoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 29(19), 4002.

Ge X, et al. (2022) Fumarate inhibits PTEN to promote tumorigenesis and therapeutic resistance of type2 papillary renal cell carcinoma. *Molecular cell*, 82(7), 1249.

Lombardi O, et al. (2022) Pan-cancer analysis of tissue and single-cell HIF-pathway activation using a conserved gene signature. *Cell reports*, 41(7), 111652.

Grubb T, et al. (2022) A Mesenchymal Tumor Cell State Confers Increased Dependency on the BCL-XL Antiapoptotic Protein in Kidney Cancer. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 28(21), 4689.