

Resource Summary Report

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

SCC-4

RRID:CVCL_1684

Type: Cell Line

Proper Citation

RRID:CVCL_1684

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_1684

Proper Citation: RRID:CVCL_1684

Description: Cell line SCC-4 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Tongue squamous cell carcinoma

Defining Citation: [PMID:1394225](#), [PMID:2573646](#), [PMID:3417487](#), [PMID:3458227](#), [PMID:6186388](#), [PMID:6722007](#), [PMID:7214336](#), [PMID:8390283](#), [PMID:17312569](#), [PMID:20014447](#), [PMID:20145189](#), [PMID:20164919](#), [PMID:20215515](#), [PMID:21868764](#), [PMID:22006338](#), [PMID:22460905](#), [PMID:24825747](#), [PMID:26589293](#), [PMID:27397505](#), [PMID:29156801](#), [PMID:30135316](#), [PMID:30894373](#), [PMID:30971826](#), [PMID:31068700](#), [PMID:35839778](#)

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

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: SCC-4

Synonyms: SCC 4, SCC4

Cross References: BTO:BTO_0003775, CLO:CLO_0008968, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ATCC:CRL-1624, BCRC:60142, BCRJ:0195, BioGRID_ORCS_Cell_line:1005, BioSample:SAMN01821596, BioSample:SAMN01821663, BioSample:SAMN03471408, BioSample:SAMN10987944, cancercellines:CVCL_1684, Cell_Model_Passport:SIDM01081, ChEMBL-

Cells:CHEMBL3308803, ChEMBL-Targets:CHEMBL1075570, CLS:305384, Cosmic:910904, Cosmic:921833, Cosmic:1118794, Cosmic:1339920, Cosmic:1608861, Cosmic:1752767, Cosmic:2266792, Cosmic:2513910, Cosmic:2668291, Cosmic-CLP:910904, DepMap:ACH-000238, DSMZ:ACC-618, DSMZCellDive:ACC-618, ECACC:89062002, EGA:EGAS00001000978, GDSC:910904, GEO:GSM422869, GEO:GSM423672, GEO:GSM827188, GEO:GSM887560, GEO:GSM888643, GEO:GSM1374865, GEO:GSM1670411, IARC_TP53:1913, IGRhCellID:SCC4%20GSE9585, JCRB:JCRB9118, LiGeA:CCLE_541, LINCS_LDP:LCL-1224, PharmacoDB:SCC4_1355_2019, PRIDE:PXD030304, Progenetix:CVCL_1684, PubChem_Cell_line:CVCL_1684, RCB:RCB0745, Wikidata:Q54952345

ID: CVCL_1684

Record Creation Time: 20220427T221517+0000

Record Last Update: 20260905T182256+0000

Ratings and Alerts

No rating or validation information has been found for SCC-4.

Warning: Discontinued: RCB; RCB0745

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

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Sywanycz S, et al. (2026) T2R5 Agonist Phendione Decreases Cell Viability and Induces Apoptosis in Head and Neck Squamous Cell Carcinoma. *Molecular cancer therapeutics*, 25(3), 396.

Xu C, et al. (2026) HOMER3 drives oral squamous cell carcinoma progression through TRPV6 calcium influx and TUBB3 microtubule stabilization. *Oncogene*, 45(2), 278.

Yang Y, et al. (2026) TNFRSF10B, a Therapeutic Target for Oral Squamous Cell Carcinoma Through Integrated Bioinformatics and Preliminary Experiments. *Technology in cancer research & treatment*, 25, 15330338261426318.

Dasgupta U, et al. (2025) Cu₃N-Fe nanocube-based electrochemical sensing of cancer metabolites with minute-scale response time. *Materials horizons*.

Peng HY, et al. (2025) EGFRvIII-driven microenvironmental fibroblast activation and transformation accelerate oral cancer progression via lipocalin-2/STAT3 axis. *Neoplasia* (New York, N.Y.), 66, 101193.

Wang L, et al. (2025) ANLN promotes head and neck squamous cell carcinoma progression by upregulating PD-L1 via the ERK-MAPK pathway. *iScience*, 28(2), 111633.

Santiappillai NT, et al. (2025) Pathway metabolite ratios reveal distinctive glutamine metabolism in a subset of proliferating cells. *Molecular systems biology*, 21(8), 983.

Grandits AM, et al. (2025) SKA1 promotes oncogenic properties in oral dysplasia and oral squamous cell carcinoma, and augments resistance to radiotherapy. *Molecular oncology*, 19(4), 1054.

Waas M, et al. (2024) Molecular correlates for HPV-negative head and neck cancer engraftment prognosticate patient outcomes. *Nature communications*, 15(1), 10869.

Chen HH, et al. (2024) DDX3 regulates cancer immune surveillance via 3' UTR-mediated cell-surface expression of PD-L1. *Cell reports*, 43(3), 113937.

Sinha S, et al. (2024) Aberrant activation of AXL may drive progression of squamous cell carcinoma in CLL patients: a mechanistic study with clinical implications. *British journal of cancer*, 131(3), 589.

Stabile R, et al. (2023) The deleted in oral cancer (DOC1 aka CDK2AP1) tumor suppressor gene is downregulated in oral squamous cell carcinoma by multiple microRNAs. *Cell death & disease*, 14(5), 337.

Gu Z, et al. (2022) Palbociclib-based high-throughput combination drug screening identifies synergistic therapeutic options in HPV-negative head and neck squamous cell carcinoma. *BMC medicine*, 20(1), 175.

Greer PFC, et al. (2022) Effects of galectin-1 inhibitor OTX008 on oral squamous cell carcinoma cells in vitro and the role of AP-1 and the MAPK/ERK pathway. *Archives of oral biology*, 134, 105335.

Chen X, et al. (2022) Long noncoding RNA Inc-H2AFV-1 promotes cell growth by regulating aberrant m6A RNA modification in head and neck squamous cell carcinoma. *Cancer science*, 113(6), 2071.

Xu H, et al. (2022) Spindle and kinetochore-associated complex 3 promotes cell growth via the PI3K/AKT/GSK3?? and PI3K/AKT/FOXO1 pathways and is a potential prognostic biomarker for oral squamous cell carcinoma. *Oral surgery, oral medicine, oral pathology and oral radiology*, 134(5), 599.

Farhangdoost N, et al. (2021) Chromatin dysregulation associated with NSD1 mutation in head and neck squamous cell carcinoma. *Cell reports*, 34(8), 108769.

Chen HH, et al. (2021) DDX3 modulates the tumor microenvironment via its role in endoplasmic reticulum-associated translation. *iScience*, 24(9), 103086.

Moreno-Nieves UY, et al. (2021) Landscape of innate lymphoid cells in human head and neck cancer reveals divergent NK cell states in the tumor microenvironment. *Proceedings of the National Academy of Sciences of the United States of America*, 118(28).

Baraniya D, et al. (2020) Screening of Health-Associated Oral Bacteria for Anticancer Properties in vitro. *Frontiers in cellular and infection microbiology*, 10, 575656.