

Resource Summary Report

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FreeStyle 293-F

RRID:CVCL_D603

Type: Cell Line

Proper Citation

(RRID:CVCL_D603)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_D603

Proper Citation: (RRID:CVCL_D603)

Sex: Female

Comments: Group: Patented cell line.

Category: Transformed cell line

Name: FreeStyle 293-F

Synonyms: Freestyle-293F, FreeStyle 293F, Freestyle 293F, FreeStyle293-F, FreeStyle293F, FreeStyle 293, Freestyle 293, FreeStyle293, Freestyle HEK293F, 293-F FreeStyle, FS-293F

Cross References: BTO:BTO_0005267, FCS-free:38-2-44-1-8-3, Lonza:885, Wikidata:Q54835158

ID: CVCL_D603

Record Creation Time: 20220427T215853+0000

Record Last Update: 20250420T110059+0000

Ratings and Alerts

No rating or validation information has been found for FreeStyle 293-F.

Warning: Discontinued: ATCC; PTA-5080

Group: Patented cell line.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 103 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Bruguera ES, et al. (2025) The co-receptor Tetraspanin12 directly captures Norrin to promote ligand-specific β -catenin signaling. eLife, 13.

Zhang Z, et al. (2025) Cryo-EM structures of the full-length human contactin-2. The FEBS journal, 292(3), 602.

Gan N, et al. (2024) TRPML1 gating modulation by allosteric mutations and lipids. eLife, 13.

Stevens TA, et al. (2024) A nanobody-based strategy for rapid and scalable purification of human protein complexes. Nature protocols, 19(1), 127.

Day CJ, et al. (2024) The essential malaria protein PfCyRPA targets glycans to invade erythrocytes. Cell reports, 43(4), 114012.

Barekatain M, et al. (2024) Structural insights into the high basal activity and inverse agonism of the orphan receptor GPR6 implicated in Parkinson's disease. Science signaling, 17(865), eado8741.

Saunders KO, et al. (2024) Vaccine induction of CD4-mimicking HIV-1 broadly neutralizing antibody precursors in macaques. Cell, 187(1), 79.

Arslan FN, et al. (2024) Adhesion-induced cortical flows pattern E-cadherin-mediated cell contacts. Current biology : CB, 34(1), 171.

Wang LT, et al. (2024) Natural malaria infection elicits rare but potent neutralizing antibodies to the blood-stage antigen RH5. Cell, 187(18), 4981.

Rupert PB, et al. (2024) Structural elucidation of the mesothelin-mucin-16/CA125 interaction. Structure (London, England : 1993), 32(8), 1049.

Zhang QE, et al. (2024) SARS-CoV-2 Omicron XBB lineage spike structures, conformations, antigenicity, and receptor recognition. Molecular cell, 84(14), 2747.

Steichen JM, et al. (2024) Vaccine priming of rare HIV broadly neutralizing antibody precursors in nonhuman primates. Science (New York, N.Y.), 384(6697), eadj8321.

Oot RA, et al. (2024) Human V-ATPase function is positively and negatively regulated by TLDc proteins. *Structure (London, England : 1993)*, 32(7), 989.

Ray R, et al. (2024) Eliciting a single amino acid change by vaccination generates antibody protection against group 1 and group 2 influenza A viruses. *Immunity*, 57(5), 1141.

Stinson JA, et al. (2023) Collagen-Anchored Interleukin-2 and Interleukin-12 Safely Reprogram the Tumor Microenvironment in Canine Soft-Tissue Sarcomas. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 29(11), 2110.

Nellore A, et al. (2023) A transcriptionally distinct subset of influenza-specific effector memory B cells predicts long-lived antibody responses to vaccination in humans. *Immunity*, 56(4), 847.

Chen Y, et al. (2023) Molecular basis for antiviral activity of two pediatric neutralizing antibodies targeting SARS-CoV-2 Spike RBD. *iScience*, 26(1), 105783.

Tauzin A, et al. (2023) Spike recognition and neutralization of SARS-CoV-2 Omicron subvariants elicited after the third dose of mRNA vaccine. *Cell reports*, 42(1), 111998.

Gromowski GD, et al. (2023) Humoral immune responses associated with control of SARS-CoV-2 breakthrough infections in a vaccinated US military population. *EBioMedicine*, 94, 104683.

Marzi R, et al. (2023) Maturation of SARS-CoV-2 Spike-specific memory B cells drives resilience to viral escape. *iScience*, 26(1), 105726.