

Resource Summary Report

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

Sf9

RRID:CVCL_0549

Type: Cell Line

Proper Citation

ATCC Cat# CRL-1711, RRID:CVCL_0549

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0549

Proper Citation: ATCC Cat# CRL-1711, RRID:CVCL_0549

Description: Cell line Sf9 is a Spontaneously immortalized cell line with a species of origin *Spodoptera frugiperda* (Fall armyworm)

Sex: Female

Defining Citation: [PMID:1367489](#), [PMID:1369220](#), [PMID:7615077](#), [PMID:8050503](#), [PMID:8314732](#), [PMID:8799737](#), [PMID:10718368](#), [PMID:10777062](#), [PMID:12052082](#), [PMID:14668217](#), [PMID:15926859](#), [PMID:19003226](#), [PMID:19941903](#), [PMID:20300881](#), [PMID:21667340](#), [PMID:23891577](#), [PMID:24375231](#), [PMID:24672045](#), [PMID:28423032](#), [PMID:28839023](#), [PMID:29038528](#), [PMID:29133148](#)

Comments: Caution: The SfRV rhabdovirus found in Sf9 cells of ATCC CRL-1711 lot 5807852 (PubMed=24672045) does not seem to be expressed in CRL-1711 lot 5814 from 1987 (PubMed=28423032). The SfRV genome is integrated in the Sf9 genome., Anecdotal: Have been flown in space on shuttle flights STS-50 (USML-1), STS-54 and STS-57 (Spacehab-1) to study growth in microgravity (PubMed=8050503)., Karyotypic information: Heterogeneous, contains a mixture of diploid and tetraploid cells., Biotechnology: Used for the production of the Novavax SARS-CoV-2 (COVID-19) vaccine (Trade name: NVX-CoV2373) (DrugBank=DB15810). The cell line is used to produce the recombinant SARS-CoV-2 spike protein rSARS-CoV-2 which is the active part of the vaccine formulation., Group: Vaccine production cell line., Group: Space-flown cell line (cellonaut)., Group: Recombinant protein production insect cell line., Group: Insect cell line.

Category: Spontaneously immortalized cell line

Organism: *Spodoptera frugiperda* (Fall armyworm)

Name: Sf9

Synonyms: SF9, sf9, SF-9, Sf-9, sf-9, Sf 9, Spodoptera frugiperda clone 9, Sf clone 9, IPLB-Sf-9AE, IPLB-SF-9AE, IPLB-SF-9, IPLB-Sf-9, IPLB-Sf9

Cross References: BTO:BTO_0001240, CLO:CLO_0008988, CLO:CLO_0008989, CLO:CLO_0008990, EFO:EFO_0022745, MCCL:MCC:0000450, CLDB:cl4277, CLDB:cl4278, CLDB:cl4279, ATCC:CRL-1711, BCRC:60011, CCLV:CCLV-RIE 0352, CCRID:1101INS-PUMC000117, CCRID:1102INS-NIFDC00107, CCRID:4201INS-CCTCC00008, CCTCC:GDC0008, ChEMBL-Cells:ChEMBL3308860, CLS:604328, DSMZ:ACC-125, DSMZCellDive:ACC-125, ECACC:89070101, IBRC:C10127, ICLDB:sf9, IZSLER:BS CL 157, KCB:KCB 200807YJ, KCB:KCB 92018YJ, Lonza:1014, MeSH:D061987, NCBI_Iran:C425, NISES:SK0002, PubChem_Cell_line:CVCL_0549, RCB:RCB0563, TOKU-E:3107, Wikidata:Q7459700

ID: CVCL_0549

Vendor: ATCC

Catalog Number: CRL-1711

Hierarchy: cvcl_0518

Record Creation Time: 20220427T221538+0000

Record Last Update: 20260802T003613+0000

Ratings and Alerts

No rating or validation information has been found for Sf9.

Warning: Discontinued: RCB; RCB0563

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Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 169 mentions in open access literature.

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

Yan H, et al. (2026) Nanoscale conformational dynamics of human propionyl-CoA carboxylase. *Structure* (London, England : 1993), 34(1), 62.

van Vliet AR, et al. (2026) A Rab1 interactome illuminates a dual role in autophagy and membrane trafficking. *The Journal of cell biology*, 225(3).

Bhavsar D, et al. (2026) Structural and functional characterization of the antigenicity of influenza A virus hemagglutinin subtype H15. *Cell reports*, 45(1), 116773.

Lupton CJ, et al. (2026) Structure of the lysosomal KICSTOR-GATOR1-SAMTOR nutrient-sensing supercomplex. *Cell*.

Wang Y, et al. (2025) GABAA receptor ? forms channels that stimulate ERK through a G-protein-dependent pathway. *Molecular cell*, 85(1), 166.

Chen LN, et al. (2025) Proton perception and activation of a proton-sensing GPCR. *Molecular cell*, 85(8), 1640.

Hu C, et al. (2025) Condensation-dependent multivalent interactions of EB1 and CENP-R regulate chromosome oscillations in mitosis. *Cell reports*, 44(5), 115560.

Wang X, et al. (2025) KIDINS220 and InsP8 safeguard the stepwise regulation of phosphate exporter XPR1. *Molecular cell*, 85(17), 3209.

Cho NH, et al. (2025) NuMA mechanically reinforces the spindle independently of its partner dynein. *Current biology : CB*, 35(17), 4084.

Raig ND, et al. (2025) Type-II kinase inhibitors that target Parkinson's Disease-associated LRRK2. *bioRxiv : the preprint server for biology*.

Xiao C, et al. (2025) Pharmacological targeting of large tumor suppressor kinases (LATS) 1 and 2 augments tissue repair and regeneration. *British journal of pharmacology*.

Raig ND, et al. (2025) Type II kinase inhibitors that target Parkinson's disease-associated LRRK2. *Science advances*, 11(23), eadt2050.

Ohri V, et al. (2025) RhoA allosterically activates phospholipase C? via its EF hands. *Communications biology*, 8(1), 1368.

Bell B, et al. (2025) Structures of invertebrate PEZO-1 isoforms with a compact architecture and a dispensable pore-distal N-terminal blade. *Cell reports*, 45(1), 116878.

Lv H, et al. (2025) Evolution of antibody cross-reactivity to influenza H5N1 neuraminidase from an N2-specific germline. *Cell host & microbe*, 33(11), 1916.

He X, et al. (2025) PI3K? functions as a protein kinase to promote cellular protein O-GlcNAcylation and acetyl-CoA production for tumor growth. *Molecular cell*, 85(7), 1411.

Pagliarini RA, et al. (2025) STX-721, a Covalent EGFR/HER2 Exon 20 Inhibitor, Utilizes Exon 20-Mutant Dynamic Protein States and Achieves Unique Mutant Selectivity Across Human Cancer Models. *Clinical cancer research : an official journal of the American*

Association for Cancer Research, 31(14), 3002.

Chen W, et al. (2025) MCAK recognizes the nucleotide-dependent feature at growing microtubule ends. *eLife*, 12.

Kang H, et al. (2025) Structural basis for channel gating and blockade in tri-heteromeric GluN1-2B-2D NMDA receptor. *Neuron*, 113(7), 991.

Liu A, et al. (2025) Structural basis of CXCR4 assembly and regulation. *Cell reports*, 44(2), 115255.