

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://www.fdi-lab.org) on Mar 28, 2025

HEK293

RRID:CVCL_0045

Type: Cell Line

Proper Citation

(BCRJ Cat# 0009, RRID:CVCL_0045)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0045

Proper Citation: (BCRJ Cat# 0009, RRID:CVCL_0045)

Sex: Female

Defining Citation: [PMID:886304](#), [PMID:9217065](#), [PMID:11416159](#), [PMID:15218237](#), [PMID:21214938](#), [PMID:21269460](#), [PMID:21502043](#), [PMID:22278370](#), [PMID:23325432](#), [PMID:24618588](#), [PMID:25182477](#), [PMID:25807930](#), [PMID:25894527](#), [PMID:25903999](#), [PMID:25960936](#), [PMID:27233776](#), [PMID:27577262](#), [PMID:28196595](#), [PMID:29660373](#), [PMID:30260228](#), [PMID:32302230](#)

Comments: Omics: Virome analysis using proteomics., Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: Protein expression by reverse-phase protein arrays., Omics: Myristoylated proteins analysis by proteomics., Omics: Methylated arginine analysis by proteomics., Omics: Metabolome analysis., Omics: DNA methylation analysis., Omics: Genome sequenced., Omics: Deep proteome analysis., Omics: Deep antibody staining analysis., Omics: H3K4me3 ChIP-seq epigenome analysis., Omics: CTCF ChIP-seq epigenome analysis., Omics: Cell surface proteome., Biotechnology: Used for the production of the Gamaleya SARS-CoV-2 (COVID-19) vaccine (Trade name: Gam-COVID-Vac; also known as Sputnik V) (DrugBank=DB15848). Cautio., Part of: MD Anderson Cell Lines Project., Part of: ENCODE project common cell types; tier 3., Group: Vaccine production cell line.

Category: Transformed cell line

Name: HEK293

Synonyms: Hek293, HEK-293, HEK/293, HEK 293, HEK;293, 293, 293 HEK, 293 Ad5,

Graham 293, Graham-293, Human Embryonic Kidney 293

Cross References: BTO:BTO_0000007, CLO:CLO_0001230, CLO:CLO_0050903, EFO:EFO_0001182, MCCL:MCC:0000006, CLDB:cl45, CLDB:cl46, CLDB:cl47, CLDB:cl7133, 4DN:4DNSRVF4XB1F, Abcam:ab259776, Abcam:ab277915, AddexBio:T0011001/76, ATCC:CRL-1573, BCRC:60019, BCRJ:0009, BEI_Resources:ARP-103, BEI_Resources:NR-9313, BioGRID_ORCS_Cell_line:293, BioSample:SAMN03471398, BioSample:SAMN03473347, BioSamples:SAMEA2018185, CCLV:CCLV-RIE 0197, CCRID:1101HUM-PUMC000010, CCRID:1102HUM-NIFDC00005, CCRID:3101HUMGNHu18, CCRID:3101HUMGNHu43, CCRID:4201HUM-CCTCC00067, CCRID:5301HUM-KCB09071YJ, CCTCC:GDC0067, ChEMBL-Cells:ChEMBL3307715, ChEMBL-Targets:ChEMBL614818, CLS:300192, DSMZ:ACC-305, DSMZCellDive:ACC-305, ECACC:85120602, ENCODE:ENCBS022BLS, ENCODE:ENCBS037XHS, ENCODE:ENCBS209KHO, ENCODE:ENCBS253HIE, ENCODE:ENCBS264HQL, ENCODE:ENCBS375ENC, ENCODE:ENCBS393ENC, ENCODE:ENCBS421ENC, ENCODE:ENCBS439ENC, ENCODE:ENCBS479AAA, ENCODE:ENCBS480AAA, ENCODE:ENCBS481AAA, ENCODE:ENCBS482AAA, ENCODE:ENCBS483AAA, ENCODE:ENCBS484AAA, ENCODE:ENCBS486AAA, ENCODE:ENCBS522ENC, ENCODE:ENCBS523ENC, ENCODE:ENCBS613RZL, ENCODE:ENCBS906GPZ, FCS-free:6-2-7-1-4-3, FCS-free:6-2-42-1-8-11, FCS-free:6-2-45-1-8-3, FCS-free:6-2-46-1-8-11, FCS-free:6-2-284-1-4-3, FCS-free:6-2-345-1-4-12, FCS-free:6-2-372-1-16-3, FCS-free:6-2-381-1-4-3, FCS-free:6-2-409-1-16-12, FCS-free:6-2-421-2-4-7, FCS-free:6-2-503-1-3-3, FCS-free:6-2-533-1-4-12, FCS-free:6-2-570-3-17-1, FCS-free:6-2-586-1-18-2, GEO:GSM580027, GEO:GSM580028, GEO:GSM635701, GEO:GSM635702, GEO:GSM635703, GEO:GSM635704, GEO:GSM651571, GEO:GSM749668, GEO:GSM749687, GEO:GSM749767, GEO:GSM945256, GEO:GSM945288, GEO:GSM1374525, IBRC:C10139, ICLC:HTL03003, IZSLER:BS CL 129, JCRB:JCRB9068, KCB:KCB 200408YJ, KCB:KCB 200971YJ, KCLB:21573, Lonza:46, MeSH:D057809, MetaboLights:MTBLS102, MetaboLights:MTBLS156, MetaboLights:MTBLS737, NCBI_Iran:C497, PRIDE:PXD000589, PRIDE:PXD000623, PRIDE:PXD000680, PRIDE:PXD000933, PRIDE:PXD000953, PRIDE:PXD001468, PRIDE:PXD001511, PRIDE:PXD001711, PRIDE:PXD001863, PRIDE:PXD002383, PRIDE:PXD002389, PRIDE:PXD002395, PRIDE:PXD002601, PRIDE:PXD002613, PRIDE:PXD002676, PRIDE:PXD003310, PRIDE:PXD003370, PRIDE:PXD003700, PRIDE:PXD003896, PRIDE:PXD005535, PRIDE:PXD005955, PRIDE:PXD009668, PRIDE:PXD014771, PRIDE:PXD017977, PRIDE:PXD030601, PubChem_Cell_line:CVCL_0045, RCB:RCB1637, TKG:TKG 0306, TOKU-E:31, Ubigene:YC-A008, Wikidata:Q489618

ID: CVCL_0045

Vendor: BCRJ

Catalog Number: 0009

Record Creation Time: 20250131T200343+0000

Record Last Update: 20250131T201553+0000

Ratings and Alerts

No rating or validation information has been found for HEK293.

No alerts have been found for HEK293.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 35187 mentions in open access literature.

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

Dvorak NM, et al. (2025) Enhanced motivated behavior mediated by pharmacological targeting of the FGF14/Nav1.6?complex in nucleus accumbens neurons. *Nature communications*, 16(1), 110.

Huang LY, et al. (2025) Maintaining moderate levels of hypochlorous acid promotes neural stem cell proliferation and differentiation in the recovery phase of stroke. *Neural regeneration research*, 20(3), 845.

Hinke DM, et al. (2024) Applying valency-based immuno-selection to generate broadly cross-reactive antibodies against influenza hemagglutinins. *Nature communications*, 15(1), 850.

Prinz LF, et al. (2024) An anti-CD19/CTLA-4 switch improves efficacy and selectivity of CAR T cells targeting CD80/86-upregulated DLBCL. *Cell reports. Medicine*, 5(2), 101421.

Zhou Y, et al. (2024) Nudt21-mediated alternative polyadenylation of MZT1 3'UTR contributes to pancreatic cancer progression. *iScience*, 27(2), 108822.

Semino F, et al. (2024) GPD1L-A306del modifies sodium current in a family carrying the dysfunctional SCN5A-G1661R mutation associated with Brugada syndrome. *Pflugers Archiv : European journal of physiology*, 476(2), 229.

Robey RW, et al. (2024) The Methyltransferases METTL7A and METTL7B Confer Resistance to Thiol-Based Histone Deacetylase Inhibitors. *Molecular cancer therapeutics*, 23(4), 464.

Ray S, et al. (2024) A triple cysteine motif as major determinant of the modulation of neuronal KV7 channels by the paracetamol metabolite N-acetyl-p-benzo quinone imine. *British journal of pharmacology*, 181(16), 2851.

Qiu Y, et al. (2024) Systematic characterization of multi-omics landscape between gut microbial metabolites and GPCRome in Alzheimer's disease. *Cell reports*, 43(5), 114128.

Azevedo C, et al. (2024) On the covalent nature of lysine polyphosphorylation. *Molecular cell*, 84(9), 1811.

Hoang HTM, et al. (2024) Application of bioluminescence resonance energy transfer assays in primary mouse neuronal cultures. *STAR protocols*, 5(3), 103228.

Grégoire S, et al. (2024) Structural insights into an atypical histone binding mechanism by a PHD finger. *Structure (London, England : 1993)*, 32(9), 1498.

Foran G, et al. (2024) Notch1 Phase Separation Coupled Percolation facilitates target gene expression and enhancer looping. *bioRxiv : the preprint server for biology*.

Ramos-Valle A, et al. (2024) Biodegradable silica nanoparticles for efficient linear DNA gene delivery. *Drug delivery*, 31(1), 2385376.

Hillen H, et al. (2024) A Novel Irreversible TEAD Inhibitor, SWTX-143, Blocks Hippo Pathway Transcriptional Output and Causes Tumor Regression in Preclinical Mesothelioma Models. *Molecular cancer therapeutics*, 23(1), 3.

Haag F, et al. (2024) Petrol Note in Riesling - 1,1,6-Trimethyl-1,2-dihydronaphthalene (TDN) Selectively Activates Human Odorant Receptor OR8H1. *Journal of agricultural and food chemistry*, 72(9), 4888.

Li Q, et al. (2024) TET2 regulation of alcoholic fatty liver via Srebp1 mRNA in paraspeckles. *iScience*, 27(3), 109278.

Bay Y, et al. (2024) The positive allosteric modulator BPAM344 and L-glutamate introduce an active-like structure of the ligand-binding domain of GluK2. *FEBS letters*.

Brewer A, et al. (2024) Mapping the substrate landscape of protein phosphatase 2A catalytic subunit PPP2CA. *iScience*, 27(3), 109302.

Pichavaram P, et al. (2024) Oncogenic Cells of Renal Embryonic Lineage Sensitive to the Small-Molecule Inhibitor QC6352 Display Depletion of KDM4 Levels and Disruption of Ribosome Biogenesis. *Molecular cancer therapeutics*, 23(4), 478.