

Resource Summary Report

Generated by [dkNET](#) on Aug 20, 2026

HMEC-1

RRID:CVCL_0307

Type: Cell Line

Proper Citation

RRID:CVCL_0307

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0307

Proper Citation: RRID:CVCL_0307

Description: Cell line HMEC-1 is a Transformed cell line with a species of origin Homo sapiens (Human)

Sex: Male

Defining Citation: [PMID:1361507](#), [PMID:12453433](#)

Comments: Group: Patented cell line.

Category: Transformed cell line

Organism: Homo sapiens (Human)

Name: HMEC-1

Synonyms: Hmec-1, HMEC1, CDC/EU.HMEC-1, Human Microvascular Endothelial Cell line-1

Cross References: BTO:BTO_0002828, EFO:EFO_0005383, MCCL:MCC:0000200, ATCC:CRL-3243, ChEMBL-Cells:ChEMBL4295409, ChEMBL-Targets:ChEMBL4296433, CLS:304064, Lonza:736, PubChem_Cell_line:CVCL_0307, Wikidata:Q54889921

ID: CVCL_0307

Record Creation Time: 20220427T220436+0000

Record Last Update: 20260815T233935+0000

Ratings and Alerts

No rating or validation information has been found for HMEC-1.

Warning: Discontinued: ATCC; CRL-10636
Group: Patented cell line.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 773 mentions in open access literature.

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

Ström K, et al. (2026) RAB3GAP2 is a regulator of skeletal muscle endothelial cell proliferation and associated with capillary-to-fiber ratio. Cell reports, 45(2), 116961.

Xiao W, et al. (2026) Metabolite-gated vascular contractility switch: OXGR1 activation mechanism enables agonist therapy for rosacea erythema. Cell, 189(7), 1990.

Bi T, et al. (2026) Design of RGD-functionalized GSH-responsive pegylated polymeric protacs for selective BRD4 degradation and EndMT-driven cardiac fibrosis inhibition. Journal of nanobiotechnology, 24(1).

Grafals-Ruiz N, et al. (2026) M6 metabolite contributes to the efficacy of the Rac/Cdc42 inhibitor MBQ-167 in metastatic breast cancer. Molecular cancer therapeutics.

Meermeyer SL, et al. (2026) Biomimetic Fibrinogen Nanofiber Scaffolds for Vascular Hematopoietic Stem Cell Niche Engineering. Advanced healthcare materials, 15(5), e03449.

Solernó LM, et al. (2026) Combined treatment using repurposed synthetic peptide desmopressin and bevacizumab as a potential antiangiogenic strategy in osteosarcoma. Frontiers in medicine, 13, 1864843.

Wang Y, et al. (2026) LncRNA DANCR Activates p38/mTOR-Mediated Autophagy via ANXA2 to Exacerbate Oxygen-Induced Retinal Neovascularization in Mice. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 40(1), e71364.

List M, et al. (2026) Targeted, receptor-mediated delivery of a masked d-amino acid cell-penetrating peptide for cell-specific phototoxicity. The FEBS journal.

De Giorgio F, et al. (2026) Exploiting porphyrin metabolism to inhibit angiogenesis. Angiogenesis, 29(2).

Yang T, et al. (2026) Deficiency of Pdap1 Results in Embryonic Lethality and Diminished Vascularization. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 40(2), e71437.

Barral L, et al. (2026) Targeting BMP and TAZ/TEAD mechanotransduction pathways impairs acute myeloid leukemia chemoresistance. *Leukemia*, 40(6), 1151.

Yu S, et al. (2026) Tumor-Derived Exosomal TAGLN2 Promotes Metastasis by Inducing Vascular Permeability and Angiogenesis via the NRP1/SEMA4D/YAP Axis. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(29), e21962.

Wang X, et al. (2026) Gut microbiota-derived trimethylamine-N-oxide protects pulmonary vascular barrier integrity via Vav guanine nucleotide exchange factor 3 (VAV3)-mediated cytoskeletal remodelling in acute lung injury. *British journal of pharmacology*, 183(15), 4163.

Bacher MC, et al. (2026) Divergent Rickettsia species exhibit distinct mechanisms of actin-based motility. *The Journal of cell biology*, 225(7).

Acevedo-Sánchez Y, et al. (2025) Rickettsia parkeri forms extensive, stable contacts with the rough endoplasmic reticulum. *The Journal of cell biology*, 224(3).

Murphy A, et al. (2025) YAP1::TFE3 mediates endothelial-to-mesenchymal plasticity in epithelioid hemangioendothelioma. *Molecular oncology*.

Nguyen-Tran HH, et al. (2025) Oncostatin M induces epigenetic reprogramming in renal cell carcinoma-associated endothelial cells. *Communications biology*, 8(1), 1541.

Alfaro-García JP, et al. (2025) Characterization of the Temporal Dynamics of the Endothelial-Mesenchymal-like Transition Induced by Soluble Factors from Dengue Virus Infection in Microvascular Endothelial Cells. *International journal of molecular sciences*, 26(5).

Alders L, et al. (2025) The role of IGF-2 and its variants in enhancing endothelial migration and angiogenesis. *Frontiers in cell and developmental biology*, 13, 1598705.

Szczesny-Malysiak E, et al. (2025) NO-induced change in the oxidation state of cytochrome c in endothelial cells monitored by resonance Raman imaging. *Free radical biology & medicine*, 239, 472.