

Resource Summary Report

Generated by [RRID](#) on Aug 3, 2026

bEnd.3

RRID:CVCL_0170

Type: Cell Line

Proper Citation

JCRB Cat# NIHS0319, RRID:CVCL_0170

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0170

Proper Citation: JCRB Cat# NIHS0319, RRID:CVCL_0170

Description: Cell line bEnd.3 is a Transformed cell line with a species of origin Mus musculus (Mouse)

Sex: Sex unspecified

Defining Citation: [PMID:2379237](#), [PMID:14568334](#), [PMID:22224974](#), [PMID:25282873](#)

Comments: Characteristics: Widely used for blood vascular research.

Category: Transformed cell line

Organism: Mus musculus (Mouse)

Name: bEnd.3

Synonyms: bEND.3, b.End3, Bend.3, bEnd3, BEND-3, BEND3, brain-derived Endothelial cells.3

Cross References: BTO:BTO_0003353, CLO:CLO_0001777, CLO:CLO_0001928, MCCL:MCC:0000496, CLDB:cl5049, AddexBio:C0005030/5019, ATCC:CRL-2299, BCRC:60515, CCRID:3101MOUSCSP5267, CCRID:3101MOUTCM40, CCRID:6101MOU-CERC000126, CLS:305265, ECACC:96091929, JCRB:NIHS0319, Wikidata:Q52183429

ID: CVCL_0170

Vendor: JCRB

Catalog Number: NIHS0319

Record Creation Time: 20220427T215358+0000

Record Last Update: 20260802T010322+0000

Ratings and Alerts

No rating or validation information has been found for bEnd.3.

Warning: Discontinued: JCRB; NIHS0319

Characteristics: Widely used for blood vascular research.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 66 mentions in open access literature.

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

Zhang Y, et al. (2025) Gamma-glutamyl transferase 5 overexpression in cerebrovascular endothelial cells improves brain pathology, cognition, and behavior in APP/PS1 mice. Neural regeneration research, 20(2), 533.

Brassard R, et al. (2025) Transmembrane Parkinson's disease mutation of PINK1 leads to altered mitochondrial anchoring. The Journal of biological chemistry, 301(3), 108253.

Fan Y, et al. (2025) Adoptive macrophages suppress glioblastoma growth by reversing immunosuppressive microenvironment through programmed phenotype repolarization. Cell reports, 44(10), 116350.

Huang Q, et al. (2025) Extracellular vesicular delivery of ceramides from pulmonary macrophages to endothelial cells facilitates chronic obstructive pulmonary disease. Cell communication and signaling : CCS, 23(1), 124.

Chen KY, et al. (2025) Inflammation switches the chemoattractant requirements for naive lymphocyte entry into lymph nodes. Cell, 188(4), 1019.

Li C, et al. (2025) NIR Ratiometric Fluorescent Antibody-Drug Conjugate for Metastatic Ovarian Cancer Theranostics and Treatment Response Monitoring. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e16607.

Ritson M, et al. (2025) Repeated Low-Level Inflammatory Challenge Leads to Alterations in the TNF-CXCL10 Signalling Pathway in Mouse Cerebral Endothelial Cells In Vitro. Journal of neurochemistry, 169(6), e70130.

Huang J, et al. (2025) Neurophilic Biomimetic Lipoprotein-Mediated Targeted Nerve Growth Factor Delivery for Traumatic Brain Injury Therapy. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e09405.

Chen J, et al. (2024) Deficiency of lncRNA MERRICAL abrogates macrophage chemotaxis and diabetes-associated atherosclerosis. *Cell reports*, 43(3), 113815.

Zhang J, et al. (2024) Intranasal delivery of phenytoin loaded layered double hydroxide nanoparticles improves therapeutic effect on epileptic seizures. *Journal of nanobiotechnology*, 22(1), 144.

Ye Q, et al. (2024) Astrocytic Slc4a4 regulates blood-brain barrier integrity in healthy and stroke brains via a CCL2-CCR2 pathway and NO dysregulation. *Cell reports*, 43(5), 114193.

Geng S, et al. (2024) Resolving neutrophils through genetic deletion of TRAM attenuate atherosclerosis pathogenesis. *iScience*, 27(6), 110097.

Vázquez-Liébanas E, et al. (2024) Mosaic deletion of claudin-5 reveals rapid non-cell-autonomous consequences of blood-brain barrier leakage. *Cell reports*, 43(3), 113911.

Chen PJ, et al. (2024) Ribociclib leverages phosphodiesterase 4 inhibition in the treatment of neutrophilic inflammation and acute respiratory distress syndrome. *Journal of advanced research*, 62, 229.

Verma M, et al. (2024) Endothelial cell signature in muscle stem cells validated by VEGFA-FLT1-AKT1 axis promoting survival of muscle stem cell. *eLife*, 13.

Li B, et al. (2023) FTO-dependent m6A modification of Plpp3 in circSCMH1-regulated vascular repair and functional recovery following stroke. *Nature communications*, 14(1), 489.

Mueller SM, et al. (2023) Evaluation of gliovascular functions of AQP4 readthrough isoforms. *Frontiers in cellular neuroscience*, 17, 1272391.

Genet N, et al. (2023) Connexin 43-mediated neurovascular interactions regulate neurogenesis in the adult brain subventricular zone. *Cell reports*, 42(4), 112371.

Mueller SM, et al. (2023) Evaluation of gliovascular functions of Aqp4 readthrough isoforms. *bioRxiv : the preprint server for biology*.

Pan J, et al. (2023) Transmission of NLRP3-IL-1 β Signals in Cerebral Ischemia and Reperfusion Injury: from Microglia to Adjacent Neuron and Endothelial Cells via IL-1 β /IL-1R1/TRAF6. *Molecular neurobiology*, 60(5), 2749.