Resource Summary Report

Generated by NIF on Sep 19, 2026

HL-1

RRID:CVCL_0303
Type: Cell Line

Proper Citation

Ubigene Cat# YC-C100, RRID:CVCL_0303

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0303

Proper Citation: Ubigene Cat# YC-C100, RRID:CVCL_0303

Description: Cell line HL-1 is a Transformed cell line with a species of origin Mus musculus (Mouse)

Sex: Female

Defining Citation: PMID:9501201, PMID:10908350, PMID:14766671

Comments: Caution: The STR profile of HL-1 as distributed from Ubigene shows that the cell line that what they distribute is not HL-1 but C2C12 (Cellosaurus=CVCL_0188) or a derivative of that cell line (Ubigene=YC-C100)., Characteristics: From transgenic mice expressing a fusion gene comprised of the atrial natriuretic factor promoter and the SV40 early region., Characteristics: Spontaneously contract while maintaining a differentiated cardiac phenotype (Millipore=SCC065)., Group: Patented cell line.

Category: Transformed cell line

Organism: Mus musculus (Mouse)

Name: HL-1

Synonyms: HL1, HL-1 F2 P76

Cross References: BTO:BTO_0003264, EFO:EFO_0022835, MCCL:MCC:0000194, Lonza:740, Millipore:SCC065, Ubigene:YC-C100, Wikidata:Q29838237

ID: CVCL_0303

Vendor: Ubigene

Catalog Number: YC-C100

Record Creation Time: 20250130T071727+0000

Record Last Update: 20260913T011549+0000

Ratings and Alerts

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

No alerts have been found for HL-1.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 669 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Geng X, et al. (2026) Comparative Study on Physicochemical Characteristics and Synergistic Anticancer Effects of Polysaccharides from Different Sources of Radix Bupleuri. Chemistry & biodiversity, 23(5), e03695.

Zheng Z, et al. (2026) The deubiquitinase YOD1 in cardiomyocytes mediates septic cardiomyopathy by deubiquitinating and thus stabilizing the NLRP3 inflammasome. British journal of pharmacology, 183(13), 3558.

Shen QR, et al. (2026) Activated gasdermin E (GSDME) amplifies endoplasmic reticulum stress and inflammation in ?-adrenoceptor overactivation-induced cardiac injury. British journal of pharmacology, 183(17), 5245.

Cheng J, et al. (2026) Young Regulatory T Cell-Derived Extracellular Vesicles Improve Mitochondrial Function and Angiogenesis and Suppress Inflammation in Senescent Brain and Heart. Journal of neurochemistry, 170(3), e70402.

Zhang Z, et al. (2026) High sucralose exposure in early pregnancy increases the susceptibility of heart defects in mice offspring. iScience, 29(5), 115603.

Ye B, et al. (2025) Cardiomyocyte-derived YOD1 promotes pathological cardiac hypertrophy by deubiquitinating and stabilizing STAT3. Science advances, 11(26), eadu8422.

Zhang K, et al. (2025) Rab32 protects mitochondrial function by anchoring Fancd2 and mediates the protective effect of penehyclidine hydrochloride against myocardial ischemia-reperfusion injury. International immunopharmacology, 156, 114697.

Tian H, et al. (2025) Inhibition of Macrophage ARID3A Alleviates Myocardial Ischemia-Reperfusion Injury After Heart Transplantation by Reducing THBS1/CD47 Signaling-Mediated Neutrophil Extracellular Traps Formation. Advanced science (Weinheim, Baden-

Wurttemberg, Germany), e09952.

Zi C, et al. (2025) BASP1/HTRA2 axis, targeted by miR-7a-5p, exerted a pro-apoptosis role in myocardial ischemia/reperfusion injury. Toxicology and applied pharmacology, 502, 117437.

Visnovitz T, et al. (2025) A 'torn bag mechanism' of small extracellular vesicle release via limiting membrane rupture of en bloc released amphisomes (amphiectosomes). eLife, 13.

Pan W, et al. (2025) A circular RNA derived from the ryanodine receptor 2 locus controls cardiac hypertrophy and calcium handling. Cellular and molecular life sciences : CMLS, 82(1), 359.

Cheah E, et al. (2025) Customizable Fabrication of 2D and Conformal Multielectrode Arrays for 3D Printed Organotypic Bioelectronic Interfaces. Advanced healthcare materials, e02757.

Shu S, et al. (2025) Histone Deacetylase 6 Controls Atrial Fibrosis and Remodeling in Postinfarction Mice Through the Modulation of Wnt3a/GSK-3? Signaling. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(10), e70650.

Li YC, et al. (2024) Carvedilol Confers Ferroptosis Resistance in HL-1 Cells by Upregulating GPX4, FTH1, and FTL1 and Inducing Metabolic Remodeling Under Hypoxia/Reoxygenation. Antioxidants (Basel, Switzerland), 14(1).

Wu A, et al. (2024) The activation of LBH-CRYAB signaling promotes cardiac protection against I/R injury by inhibiting apoptosis and ferroptosis. iScience, 27(5), 109510.

Peng H, et al. (2024) NR4A3 prevents diabetes induced atrial cardiomyopathy by maintaining mitochondrial energy metabolism and reducing oxidative stress. EBioMedicine, 106, 105268.

Ko TH, et al. (2023) Inhibition of late sodium current via PI3K/Akt signaling prevents cellular remodeling in tachypacing-induced HL-1 atrial myocytes. Pflugers Archiv : European journal of physiology, 475(2), 217.

Zhao R, et al. (2023) Gestational palmitic acid suppresses embryonic GATA-binding protein 4 signaling and causes congenital heart disease. Cell reports. Medicine, 4(3), 100953.

Wu X, et al. (2023) Dihydrotanshinone I preconditions myocardium against ischemic injury via PKM2 glutathionylation sensitive to ROS. Acta pharmaceutica Sinica. B, 13(1), 113.

Yang M, et al. (2023) Circ_0001052 promotes cardiac hypertrophy via elevating Hipk3. Aging, 15(4), 1025.