

Resource Summary Report

Generated by [RRID](#) on Sep 7, 2026

LUHMES

RRID:CVCL_B056

Type: Cell Line

Proper Citation

ABM Cat# T0284, RRID:CVCL_B056

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_B056

Proper Citation: ABM Cat# T0284, RRID:CVCL_B056

Description: Cell line LUHMES is a Conditionally immortalized cell line with a species of origin Homo sapiens (Human)

Sex: Female

Defining Citation: [PMID:16000623](#), [PMID:21434924](#), [PMID:24173167](#), [PMID:30602607](#), [PMID:32150624](#)

Comments: Characteristics: Embryonic neuronal precursor cells that can be maintained as proliferating cells due to the expression of a tetracycline-regulatable (Tet-Off) v-myc transgene. Can be differentiated to post-mitotic neurons by the addition of tetracycline, GDNF and dibutyryl cAMP.

Category: Conditionally immortalized cell line

Organism: Homo sapiens (Human)

Name: LUHMES

Synonyms: LUnd Human MESencephalic

Cross References: ABM:T0284, ATCC:CRL-2927, BioSample:SAMN03471701, BioSample:SAMN08723614, Wikidata:Q54903259

ID: CVCL_B056

Vendor: ABM

Catalog Number: T0284

Hierarchy: cvcl_b061

Record Creation Time: 20250130T072056+0000

Record Last Update: 20260905T184051+0000

Ratings and Alerts

No rating or validation information has been found for LUHMES.

No alerts have been found for LUHMES.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Kosz?a O, et al. (2026) Dual-action strategy to reprogram chaperone activity for ?-synuclein aggregate clearance in Parkinson's disease. International journal of biological macromolecules, 347, 150730.

Yoshihara M, et al. (2025) Transcriptional enhancers in human neuronal differentiation provide clues to neuronal disorders. EMBO reports, 26(5), 1212.

de Sousa Gomes K, et al. (2025) Lunatin-1: a membrane-disruptive peptide isolated from Hadruides lunatus scorpion venom with cytotoxicity against MDA-MB-231 breast cancer cell line. Biochimie, 236, 74.

Müller-Schiffmann A, et al. (2025) Oxidized MIF is an Alzheimer's disease drug target relaying external risk factors to tau pathology. Cell reports. Medicine, 102520.

Nguyen HD, et al. (2025) Pathological role of immunoproteasome PSMB8 in Parkinson's disease: a link between ?-synuclein aggregation and immune activation. EBioMedicine, 121, 105990.

Pokharel PV, et al. (2025) Oxidative Stress Suppresses Trk Signaling While Stimulating JNK-Mediated Endocytosis and Cleavage of p75NTR: A Targetable Pathway for Neuroprotection in a Parkinson's Disease Model. Journal of neurochemistry, 169(2), e70010.

Bonnifet T, et al. (2025) Steady-state neuron-predominant LINE-1 encoded ORF1p protein and LINE-1 RNA increase with aging in the mouse and human brain. eLife, 13.

Pokharel PV, et al. (2024) LM11a-31 Inhibits p75 Neurotrophin Receptor (p75 NTR) Cleavage and is Neuroprotective in a Cell Culture Model of Parkinson's Disease. bioRxiv :

the preprint server for biology.

Panagaki T, et al. (2023) Incretin Mimetics Restore the ER-Mitochondrial Axis and Switch Cell Fate Towards Survival in LUHMES Dopaminergic-Like Neurons: Implications for Novel Therapeutic Strategies in Parkinson's Disease. *Journal of Parkinson's disease*, 13(7), 1149.

Kranaster P, et al. (2023) Use of metabolic glycoengineering and pharmacological inhibitors to assess lipid and protein sialylation on cells. *Journal of neurochemistry*, 164(4), 481.

Gospodinova KO, et al. (2023) Loss of SORCS2 is Associated with Neuronal DNA Double-Strand Breaks. *Cellular and molecular neurobiology*, 43(1), 237.

Zlatic SA, et al. (2022) Convergent cerebrospinal fluid proteomes and metabolic ontologies in humans and animal models of Rett syndrome. *iScience*, 25(9), 104966.

Clements RT, et al. (2022) Quantification of Neurite Degeneration with Enhanced Accuracy and Efficiency in an In Vitro Model of Parkinson's Disease. *eNeuro*, 9(2).

Leah T, et al. (2021) A Parkinson's Disease-relevant Mitochondrial and Neuronal Morphology High-throughput Screening Assay in LUHMES Cells. *Bio-protocol*, 11(1), e3881.

Matelski L, et al. (2021) Effects of cytokines on nuclear factor-kappa B, cell viability, and synaptic connectivity in a human neuronal cell line. *Molecular psychiatry*, 26(3), 875.

Kraemer BR, et al. (2021) c-Jun N-terminal Kinase Mediates Ligand-independent p75NTR Signaling in Mesencephalic Cells Subjected to Oxidative Stress. *Neuroscience*, 453, 222.

Zhong J, et al. (2020) Roflupram exerts neuroprotection via activation of CREB/PGC-1 α signalling in experimental models of Parkinson's disease. *British journal of pharmacology*, 177(10), 2333.

Vargas Abonce SE, et al. (2019) Homeoprotein Neuroprotection of Embryonic Neuronal Cells. *eNeuro*, 6(5).

Scholz D, et al. (2018) Reduced A β secretion by human neurons under conditions of strongly increased BACE activity. *Journal of neurochemistry*, 147(2), 256.