

Resource Summary Report

Generated by [NIF](#) on Sep 10, 2026

HDAC4 Flag

RRID:Addgene_13821

Type: Plasmid

Proper Citation

RRID:Addgene_13821

Plasmid Information

URL: <http://www.addgene.org/13821>

Proper Citation: RRID:Addgene_13821

Insert Name: HDAC4

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10206986](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5500; Vector Backbone:pcDNA3.1 +; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Cloned into a version of pcDNA3.1 that has been modified to include a C-terminal Flag tag (see author's map for details). The HDAC4 insert in this plasmid matches GenBank reference sequence NP_006028.1.

Plasmid Name: HDAC4 Flag

Record Creation Time: 20220422T221800+0000

Record Last Update: 20260905T074834+0000

Ratings and Alerts

No rating or validation information has been found for HDAC4 Flag.

No alerts have been found for HDAC4 Flag.

Data and Source Information

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Lu Y, et al. (2024) HDAC5 enhances IRF3 activation and is targeted for degradation by protein C6 from orthopoxviruses including Monkeypox virus and Variola virus. *Cell reports*, 43(3), 113788.

Shi F, et al. (2023) Salt-inducible kinase inhibition promotes the adipocyte thermogenic program and adipose tissue browning. *Molecular metabolism*, 74, 101753.

Garcia Morato J, et al. (2022) Sirtuin-1 sensitive lysine-136 acetylation drives phase separation and pathological aggregation of TDP-43. *Nature communications*, 13(1), 1223.

Zhang Y, et al. (2022) Evidence that HDAC7 acts as an epigenetic "reader" of AR acetylation through NCoR-HDAC3 dissociation. *Cell chemical biology*, 29(7), 1162.

Kang H, et al. (2021) Inhibition of alcohol-induced inflammation and oxidative stress by astaxanthin is mediated by its opposite actions in the regulation of sirtuin 1 and histone deacetylase 4 in macrophages. *Biochimica et biophysica acta. Molecular and cell biology of lipids*, 1866(1), 158838.

Bruce JW, et al. (2021) ZBTB2 represses HIV-1 transcription and is regulated by HIV-1 Vpr and cellular DNA damage responses. *PLoS pathogens*, 17(2), e1009364.

Holzer K, et al. (2019) Nucleoporin Nup155 is part of the p53 network in liver cancer. *Nature communications*, 10(1), 2147.

Lu Y, et al. (2019) Histone deacetylase 4 promotes type I interferon signaling, restricts DNA viruses, and is degraded via vaccinia virus protein C6. *Proceedings of the National Academy of Sciences of the United States of America*, 116(24), 11997.

Penrod RD, et al. (2018) Novel role and regulation of HDAC4 in cocaine-related behaviors. *Addiction biology*, 23(2), 653.

Kalogeropoulou AF, et al. (2018) P62/SQSTM1 is a novel leucine-rich repeat kinase 2 (LRRK2) substrate that enhances neuronal toxicity. *The Biochemical journal*, 475(7), 1271.

Dodge-Kafka KL, et al. (2018) Bidirectional regulation of HDAC5 by mAKAP?? signalosomes in cardiac myocytes. *Journal of molecular and cellular cardiology*, 118, 13.

Brescia P, et al. (2018) MEF2B Instructs Germinal Center Development and Acts as an Oncogene in B Cell Lymphomagenesis. *Cancer cell*, 34(3), 453.

Chuang YF, et al. (2017) WMJ-8-B, a novel hydroxamate derivative, induces MDA-MB-231 breast cancer cell death via the SHP-1-STAT3-survivin cascade. *British journal of*

pharmacology, 174(17), 2941.

Wang YF, et al. (2017) G9a regulates breast cancer growth by modulating iron homeostasis through the repression of ferroxidase hephaestin. *Nature communications*, 8(1), 274.

Chandran JS, et al. (2017) Site Specific Modification of Adeno-Associated Virus Enables Both Fluorescent Imaging of Viral Particles and Characterization of the Capsid Interactome. *Scientific reports*, 7(1), 14766.

Chen MC, et al. (2016) Novel histone deacetylase inhibitor MPT0G009 induces cell apoptosis and synergistic anticancer activity with tumor necrosis factor-related apoptosis-inducing ligand against human hepatocellular carcinoma. *Oncotarget*, 7(1), 402.

Trazzi S, et al. (2016) HDAC4: a key factor underlying brain developmental alterations in CDKL5 disorder. *Human molecular genetics*, 25(18), 3887.

Liu HM, et al. (2016) Regulation of Retinoic Acid Inducible Gene-I (RIG-I) Activation by the Histone Deacetylase 6. *EBioMedicine*, 9, 195.

Kemler D, et al. (2016) The LIM domain protein nTRIP6 acts as a co-repressor for the transcription factor MEF2C in myoblasts. *Scientific reports*, 6, 27746.

Yen CS, et al. (2016) Lovastatin causes FaDu hypopharyngeal carcinoma cell death via AMPK-p63-survivin signaling cascade. *Scientific reports*, 6, 25082.