Resource Summary Report

Generated by RRID on Aug 26, 2026

SIRT1 Flag

RRID:Addgene_13812
Type: Plasmid

Proper Citation

RRID:Addgene_13812

Plasmid Information

URL: http://www.addgene.org/13812

Proper Citation: RRID:Addgene_13812

Insert Name: SIRT1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:12620231

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).

Plasmid Name: SIRT1 Flag

Relevant Mutation: N-terminus truncated

Record Creation Time: 20220422T221759+0000

Record Last Update: 20260815T080619+0000

Ratings and Alerts

No rating or validation information has been found for SIRT1 Flag.

No alerts have been found for SIRT1 Flag.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

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.

Lei B, et al. (2022) Co-culture with Sirt1-overexpressed chondrocytes delays the nucleus pulposus cells degeneration. Cell and tissue banking, 23(1), 57.

Dai X, et al. (2022) Acetylation-dependent regulation of BRAF oncogenic function. Cell reports, 38(3), 110250.

Gan L, et al. (2021) CD38 deficiency alleviates Ang II-induced vascular remodeling by inhibiting small extracellular vesicle-mediated vascular smooth muscle cell senescence in mice. Signal transduction and targeted therapy, 6(1), 223.

Höllmüller E, et al. (2021) Site-specific ubiquitylation acts as a regulator of linker histone H1. Nature communications, 12(1), 3497.

Hisahara S, et al. (2021) SIRT1 decelerates morphological processing of oligodendrocyte cell lines and regulates the expression of cytoskeleton-related oligodendrocyte proteins. Biochemical and biophysical research communications, 546, 7.

Shimizu K, et al. (2021) Interplay between protein acetylation and ubiquitination controls MCL1 protein stability. Cell reports, 37(6), 109988.

Chen X, et al. (2019) Deacetylation of ?-catenin by SIRT1 regulates self-renewal and oncogenesis of liver cancer stem cells. Cancer letters, 463, 1.

Sarikhani M, et al. (2018) SIRT2 deacetylase regulates the activity of GSK3 isoforms independent of inhibitory phosphorylation. eLife, 7.

Ferrer CM, et al. (2017) O-GlcNAcylation regulates breast cancer metastasis via SIRT1 modulation of FOXM1 pathway. Oncogene, 36(4), 559.

Harlan BA, et al. (2016) Enhancing NAD+ Salvage Pathway Reverts the Toxicity of Primary Astrocytes Expressing Amyotrophic Lateral Sclerosis-linked Mutant Superoxide Dismutase 1 (SOD1). The Journal of biological chemistry, 291(20), 10836.

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

Zoghbi ME, et al. (2016) The Lipid Bilayer Modulates the Structure and Function of an ATP-binding Cassette Exporter. The Journal of biological chemistry, 291(9), 4453.

Thompson AM, et al. (2014) Resveratrol induces vascular smooth muscle cell differentiation through stimulation of SirT1 and AMPK. PloS one, 9(1), e85495.

Shin HJ, et al. (2014) Histone deacetylase classes I and II regulate Kaposi's sarcoma-associated herpesvirus reactivation. Journal of virology, 88(2), 1281.

Ronnebaum SM, et al. (2013) The ubiquitin ligase CHIP prevents SirT6 degradation through noncanonical ubiquitination. Molecular and cellular biology, 33(22), 4461.

Madabushi A, et al. (2013) Histone deacetylase SIRT1 modulates and deacetylates DNA base excision repair enzyme thymine DNA glycosylase. The Biochemical journal, 456(1), 89.