Resource Summary Report

Generated by RRID on Aug 26, 2026

SIRT2 Flag

RRID:Addgene_13813
Type: Plasmid

Proper Citation

RRID:Addgene_13813

Plasmid Information

URL: http://www.addgene.org/13813

Proper Citation: RRID:Addgene_13813

Insert Name: SIRT2

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). This variant (2) lacks the additional 47 nt present in the 5' end of the coding region in transcript variant 1. Translation is thought to initiate at a downstream in-frame ATG.

Plasmid Name: SIRT2 Flag

Relevant Mutation: Transcript variant 2

Record Creation Time: 20220422T221759+0000

Record Last Update: 20260815T080620+0000

Ratings and Alerts

No rating or validation information has been found for SIRT2 Flag.

No alerts have been found for SIRT2 Flag.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Chen L, et al. (2025) Sirtuin 2 exacerbates renal tubule injury and inflammation in diabetic mice via deacetylation of c-Jun/c-Fos. Cellular and molecular life sciences : CMLS, 82(1), 45.

Zhang L, et al. (2024) Tau induces inflammasome activation and microgliosis through acetylating NLRP3. Clinical and translational medicine, 14(3), e1623.

Thomas G, et al. (2023) RNA-targeted therapy corrects neuronal deficits in PACS1 syndrome mice. Research square.

Villar-Pazos S, et al. (2023) Neural deficits in a mouse model of PACS1 syndrome are corrected with PACS1- or HDAC6-targeting therapy. Nature communications, 14(1), 6547.

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.

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

Minten EV, et al. (2021) SIRT2 promotes BRCA1-BARD1 heterodimerization through deacetylation. Cell reports, 34(13), 108921.

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.

Curry AM, et al. (2021) Profiling sirtuin activity using Copper-free click chemistry. Bioorganic chemistry, 117, 105413.

Zheng S, et al. (2020) Methods for studying human sirtuins with activity-based chemical probes. Methods in enzymology, 633, 251.

Wang X, et al. (2019) Cysteine thiol oxidation on SIRT2 regulates inflammation in obese mice with sepsis. Inflammation, 42(1), 156.

Graham E, et al. (2018) Development of Activity-Based Chemical Probes for Human Sirtuins. ACS chemical biology, 13(3), 782.

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

Head PE, et al. (2017) Sirtuin 2 mutations in human cancers impair its function in genome maintenance. The Journal of biological chemistry, 292(24), 9919.

Singh P, et al. (2017) Sirtuin-2 Protects Neural Cells from Oxidative Stress and Is Elevated in Neurodegeneration. Parkinson's disease, 2017, 2643587.

Fischer A, et al. (2017) Membrane localization of acetylated CNK1 mediates a positive feedback on RAF/ERK signaling. Science advances, 3(8), e1700475.

Wang X, et al. (2016) Sirtuin-2 Regulates Sepsis Inflammation in ob/ob Mice. PloS one, 11(8), e0160431.

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

Smith C, et al. (2016) Cell and Context-Dependent Effects of the Heat Shock Protein DNAJB6 on Neuronal Survival. Molecular neurobiology, 53(8), 5628.