Resource Summary Report

Generated by RRID on Aug 26, 2026

SIRT3 Flag

RRID:Addgene_13814
Type: Plasmid

Proper Citation

RRID:Addgene_13814

Plasmid Information

URL: http://www.addgene.org/13814

Proper Citation: RRID:Addgene_13814

Insert Name: SIRT3

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: SIRT3 Flag

Record Creation Time: 20220422T221759+0000

Record Last Update: 20260815T080620+0000

Ratings and Alerts

No rating or validation information has been found for SIRT3 Flag.

No alerts have been found for SIRT3 Flag.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Yang Y, et al. (2025) Arginase-II promotes melanoma and lung cancer cell growth by regulating Sirt3-mtROS axis. Frontiers in cell and developmental biology, 13, 1528972.

Tiwari A, et al. (2024) Sirtuin3 ensures the metabolic plasticity of neurotransmission during glucose deprivation. The Journal of cell biology, 223(1).

Kim JE, et al. (2024) Mitochondrial SIRT3 as a protective factor against cyclosporine A-induced nephrotoxicity. Scientific reports, 14(1), 10143.

Tiwari A, et al. (2023) Sirtuin3 ensures the metabolic plasticity of neurotransmission during glucose deprivation. bioRxiv : the preprint server for biology.

Osborne B, et al. (2022) Liver-specific overexpression of SIRT3 enhances oxidative metabolism, but does not impact metabolic defects induced by high fat feeding in mice. Biochemical and biophysical research communications, 607, 131.

Masgras I, et al. (2022) Tumor growth of neurofibromin-deficient cells is driven by decreased respiration and hampered by NAD+ and SIRT3. Cell death and differentiation, 29(10), 1996.

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.

Sawant Dessai A, et al. (2021) Transcriptional Repression of SIRT3 Potentiates Mitochondrial Aconitase Activation to Drive Aggressive Prostate Cancer to the Bone. Cancer research, 81(1), 50.

Lambhate S, et al. (2021) APC/C CDH1 ubiquitinates IDH2 contributing to ROS increase in mitosis. Cellular signalling, 86, 110087.

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.

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

Podgorski II, et al. (2020) Combination of sirtuin 3 and hyperoxia diminishes tumorigenic properties of MDA-MB-231 cells. Life sciences, 254, 117812.

Chi Z, et al. (2020) Honokiol ameliorates angiotensin II-induced hypertension and endothelial dysfunction by inhibiting HDAC6-mediated cystathionine ?-lyase degradation. Journal of cellular and molecular medicine, 24(18), 10663.

Pinteri? M, et al. (2018) De novo expression of transfected sirtuin 3 enhances susceptibility of human MCF-7 breast cancer cells to hyperoxia treatment. Free radical research, 52(6), 672.

Li R, et al. (2018) SIRT3 inhibits prostate cancer metastasis through regulation of FOXO3A by suppressing Wnt/?-catenin pathway. Experimental cell research, 364(2), 143.

Chhipa RR, et al. (2018) AMP kinase promotes glioblastoma bioenergetics and tumour growth. Nature cell biology, 20(7), 823.

Si Y, et al. (2018) Dexmedetomidine attenuation of renal ischaemia-reperfusion injury requires sirtuin 3 activation. British journal of anaesthesia, 121(6), 1260.

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

Chen ML, et al. (2017) Trimethylamine-N-Oxide Induces Vascular Inflammation by Activating the NLRP3 Inflammasome Through the SIRT3-SOD2-mtROS Signaling Pathway. Journal of the American Heart Association, 6(9).