

Resource Summary Report

Generated by [NIF](#) on Sep 1, 2026

HA GSK3 beta S9A pcDNA3

RRID:Addgene_14754

Type: Plasmid

Proper Citation

RRID:Addgene_14754

Plasmid Information

URL: <http://www.addgene.org/14754>

Proper Citation: RRID:Addgene_14754

Insert Name: GSK3 beta S9A

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:7980435](#)

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

Comments: S2A in the sequence does not affect function, used to introduce restriction enzyme site

Plasmid Name: HA GSK3 beta S9A pcDNA3

Relevant Mutation: S9A. Constitutively active mutant.

Record Creation Time: 20220422T221825+0000

Record Last Update: 20260829T075700+0000

Ratings and Alerts

No rating or validation information has been found for HA GSK3 beta S9A pcDNA3.

No alerts have been found for HA GSK3 beta S9A pcDNA3.

Data and Source Information

Usage and Citation Metrics

We found 68 mentions in open access literature.

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

Kim A, et al. (2025) Interleukin 24 Promotes Mitochondrial Dysfunction, Glucose Regulation, and Apoptosis by Inactivating Glycogen Synthase Kinase 3 Beta in Human Prostate Cancer Cells. *Cells*, 14(5).

Park J, et al. (2025) CO confers neuroprotection via activating the PERK-calcineurin pathway and inhibiting necroptosis. *Cell death discovery*, 11(1), 254.

Dorskind JM, et al. (2023) Drebrin Regulates Collateral Axon Branching in Cortical Layer II/III Somatosensory Neurons. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(46), 7745.

Dobson L, et al. (2023) GSK3 and lamellipodin balance lamellipodial protrusions and focal adhesion maturation in mouse neural crest migration. *Cell reports*, 42(9), 113030.

Stefanoska K, et al. (2022) Alzheimer's disease: Ablating single master site abolishes tau hyperphosphorylation. *Science advances*, 8(27), eabl8809.

Choi H, et al. (2022) Npp1 prevents external tooth root resorption by regulation of cervical cementum integrity. *Scientific reports*, 12(1), 21158.

Wang Z, et al. (2022) Nrf2-mediated liver protection by 18 β -glycyrrhetic acid against pyrrolizidine alkaloid-induced toxicity through PI3K/Akt/GSK3 β pathway. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, 102, 154162.

Conan P, et al. (2022) New insights into the regulation of Cystathionine beta synthase (CBS), an enzyme involved in intellectual deficiency in Down syndrome. *Frontiers in neuroscience*, 16, 1110163.

Marwarha G, et al. (2022) GSK3 β Inhibition Is the Molecular Pivot That Underlies the Mir-210-Induced Attenuation of Intrinsic Apoptosis Cascade during Hypoxia. *International journal of molecular sciences*, 23(16).

Albeely AM, et al. (2022) GSK-3 β Disrupts Neuronal Oscillatory Function to Inhibit Learning and Memory in Male Rats. *Cellular and molecular neurobiology*, 42(5), 1341.

Song L, et al. (2022) The Interplay between GSK3 β and Tau Ser262 Phosphorylation during the Progression of Tau Pathology. *International journal of molecular sciences*, 23(19).

Giovinazzo D, et al. (2021) Hydrogen sulfide is neuroprotective in Alzheimer's disease by sulfhydrating GSK3 β and inhibiting Tau hyperphosphorylation. *Proceedings of the National Academy of Sciences of the United States of America*, 118(4).

Cook B, et al. (2021) The small molecule DIPQUO promotes osteogenic differentiation via inhibition of glycogen synthase kinase 3-beta signaling. *The Journal of biological chemistry*, 296, 100696.

Ragu Varman D, et al. (2021) Glycogen synthase kinase-3 β supports serotonin transporter function and trafficking in a phosphorylation-dependent manner. *Journal of neurochemistry*, 156(4), 445.

Yokoi N, et al. (2021) 14-3-3 proteins stabilize LGI1-ADAM22 levels to regulate seizure thresholds in mice. *Cell reports*, 37(11), 110107.

Sun HL, et al. (2020) Stabilization of ERK-Phosphorylated METTL3 by USP5 Increases m6A Methylation. *Molecular cell*, 80(4), 633.

Hou B, et al. (2020) HGF protected against diabetic nephropathy via autophagy-lysosome pathway in podocyte by modulating PI3K/Akt-GSK3 γ -TFEB axis. *Cellular signalling*, 75, 109744.

Li D, et al. (2020) High specificity of widely used phospho-tau antibodies validated using a quantitative whole-cell based assay. *Journal of neurochemistry*, 152(1), 122.

Gao J, et al. (2020) Icariside II, a phosphodiesterase 5 inhibitor, attenuates cerebral ischaemia/reperfusion injury by inhibiting glycogen synthase kinase-3 γ -mediated activation of autophagy. *British journal of pharmacology*, 177(6), 1434.

Sá-Pessoa J, et al. (2020) *Klebsiella pneumoniae* Reduces SUMOylation To Limit Host Defense Responses. *mBio*, 11(5).