

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

EGFP-alphasynuclein-WT

RRID:Addgene_40822

Type: Plasmid

Proper Citation

RRID:Addgene_40822

Plasmid Information

URL: <http://www.addgene.org/40822>

Proper Citation: RRID:Addgene_40822

Insert Name: SNCA

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:10698681](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pEGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Please note that EcoRI is not a unique site. The alpha-synuclein insert contains an EcoRI site in the coding sequence.

Plasmid Name: EGFP-alphasynuclein-WT

Record Creation Time: 20220422T222211+0000

Record Last Update: 20260815T081439+0000

Ratings and Alerts

No rating or validation information has been found for EGFP-alphasynuclein-WT.

No alerts have been found for EGFP-alphasynuclein-WT.

Data and Source Information

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Meng H, et al. (2026) Chemoenzymatic Labeling Method for Detection of O-GlcNAcylated α -Synuclein Proteins by Western Blot. *Bio-protocol*, 16(10), e5692.

Hu D, et al. (2025) Targeting the ClpP- α -Synuclein Interaction with a Decoy Peptide to Mitigate Neuropathology in Parkinson's Disease Models. *bioRxiv : the preprint server for biology*.

Torrino S, et al. (2024) Mechano-dependent sorbitol accumulation supports biomolecular condensate. *Cell*.

Almohaimeed HM, et al. (2024) Investigating the potential neuroprotective benefits of taurine and Dihydrotestosterone and Hydroxyprogesterone levels in SH-SY5Y cells. *Frontiers in aging neuroscience*, 16, 1379431.

Torrino S, et al. (2023) Mechano-dependent sorbitol accumulation supports biomolecular condensate. *bioRxiv : the preprint server for biology*.

Yayli G, et al. (2023) ATAC and SAGA co-activator complexes utilize co-translational assembly, but their cellular localization properties and functions are distinct. *Cell reports*, 42(9), 113099.

Lee J, et al. (2023) Abnormal triaging of misfolded proteins by adult neuronal ceroid lipofuscinosis-associated DNAJC5/CSP α mutants causes lipofuscin accumulation. *Autophagy*, 19(1), 204.

Peinado JR, et al. (2022) Sequestration of TDP-43²¹⁶⁻⁴¹⁴ Aggregates by Cytoplasmic Expression of the proSAAS Chaperone. *ACS chemical neuroscience*, 13(11), 1651.

McCarthy E, et al. (2022) Gene Co-expression Analysis of the Human Substantia Nigra Identifies ZNHIT1 as an SNCA Co-expressed Gene that Protects Against α -Synuclein-Induced Impairments in Neurite Growth and Mitochondrial Dysfunction in SH-SY5Y Cells. *Molecular neurobiology*, 59(5), 2745.

Kulkarni VV, et al. (2022) Retrograde Axonal Autophagy and Endocytic Pathways Are Parallel and Separate in Neurons. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(45), 8524.

Anantha J, et al. (2022) NME1 Protects Against Neurotoxin-, α -Synuclein- and LRRK2-Induced Neurite Degeneration in Cell Models of Parkinson's Disease. *Molecular neurobiology*, 59(1), 61.

Wang C, et al. (2021) Genome-wide screen identifies curli amyloid fibril as a bacterial component promoting host neurodegeneration. *Proceedings of the National Academy of*

Sciences of the United States of America, 118(34).

Vogiatzis S, et al. (2021) Lentiviral Vectors Expressing Chimeric NEDD4 Ubiquitin Ligases: An Innovative Approach for Interfering with Alpha-Synuclein Accumulation. *Cells*, 10(11).

Cao L, et al. (2021) Anti-Na⁺/K⁺-ATPase immunotherapy ameliorates α -synuclein pathology through activation of Na⁺/K⁺-ATPase β 1-dependent autophagy. *Science advances*, 7(5).

Mazzocchi M, et al. (2021) LMK235, a small molecule inhibitor of HDAC4/5, protects dopaminergic neurons against neurotoxin- and α -synuclein-induced degeneration in cellular models of Parkinson's disease. *Molecular and cellular neurosciences*, 115, 103642.

Chen V, et al. (2020) The mechanistic role of alpha-synuclein in the nucleus: impaired nuclear function caused by familial Parkinson's disease SNCA mutations. *Human molecular genetics*, 29(18), 3107.

Taguchi YV, et al. (2019) Hsp110 mitigates α -synuclein pathology in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, 116(48), 24310.

Hu D, et al. (2019) Alpha-synuclein suppresses mitochondrial protease ClpP to trigger mitochondrial oxidative damage and neurotoxicity. *Acta neuropathologica*, 137(6), 939.

Mann JR, et al. (2019) RNA Binding Antagonizes Neurotoxic Phase Transitions of TDP-43. *Neuron*, 102(2), 321.

Osuagwu N, et al. (2019) Poly-ADP-ribose assisted protein localization resolves that DJ-1, but not LRRK2 or α -synuclein, is localized to the mitochondrial matrix. *PloS one*, 14(7), e0219909.