

Resource Summary Report

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

pHM6-alphasynuclein-WT

RRID:Addgene_40824

Type: Plasmid

Proper Citation

RRID:Addgene_40824

Plasmid Information

URL: <http://www.addgene.org/40824>

Proper Citation: RRID:Addgene_40824

Insert Name: SNCA

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10698681](#)

Vector Backbone Description: Backbone Marker:Roche; Backbone Size:5450; Vector Backbone:pHM6; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pHM6-alphasynuclein-WT

Record Creation Time: 20220422T222211+0000

Record Last Update: 20260815T081439+0000

Ratings and Alerts

No rating or validation information has been found for pHM6-alphasynuclein-WT.

No alerts have been found for pHM6-alphasynuclein-WT.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Chang MH, et al. (2024) SARS-CoV-2 Spike Protein 1 Causes Aggregation of α -Synuclein via Microglia-Induced Inflammation and Production of Mitochondrial ROS: Potential Therapeutic Applications of Metformin. *Biomedicines*, 12(6).

Kim MS, et al. (2023) Advanced human iPSC-based preclinical model for Parkinson's disease with optogenetic alpha-synuclein aggregation. *Cell stem cell*, 30(7), 973.

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.

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).

Delaidelli A, et al. (2021) α -Synuclein pathology in Parkinson disease activates homeostatic NRF2 anti-oxidant response. *Acta neuropathologica communications*, 9(1), 105.

Hatstat AK, et al. (2021) Characterization of Small-Molecule-Induced Changes in Parkinson's-Related Trafficking via the Nedd4 Ubiquitin Signaling Cascade. *Cell chemical biology*, 28(1), 14.

Harischandra DS, et al. (2019) Manganese promotes the aggregation and prion-like cell-to-cell exosomal transmission of α -synuclein. *Science signaling*, 12(572).

Jan A, et al. (2018) Activity of translation regulator eukaryotic elongation factor-2 kinase is increased in Parkinson disease brain and its inhibition reduces alpha synuclein toxicity. *Acta neuropathologica communications*, 6(1), 54.

Shaltouki A, et al. (2018) Alpha-synuclein delays mitophagy and targeting Miro rescues neuron loss in Parkinson's models. *Acta neuropathologica*, 136(4), 607.

Button RW, et al. (2017) Accumulation of autophagosomes confers cytotoxicity. *The Journal of biological chemistry*, 292(33), 13599.

Jorge-Finnigan A, et al. (2017) Phosphorylation at serine 31 targets tyrosine hydroxylase to vesicles for transport along microtubules. *The Journal of biological chemistry*, 292(34), 14092.