

Resource Summary Report

Generated by [dkNET](#) on Aug 19, 2026

pHM6-alphasynuclein-A53T

RRID:Addgene_40825

Type: Plasmid

Proper Citation

RRID:Addgene_40825

Plasmid Information

URL: <http://www.addgene.org/40825>

Proper Citation: RRID:Addgene_40825

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-A53T

Relevant Mutation: A53T

Record Creation Time: 20220422T222211+0000

Record Last Update: 20260815T081439+0000

Ratings and Alerts

No rating or validation information has been found for pHM6-alphasynuclein-A53T.

No alerts have been found for pHM6-alphasynuclein-A53T.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Wang C, et al. (2024) Metabolic rescue of α -synuclein-induced neurodegeneration through propionate supplementation and intestine-neuron signaling in *C. elegans*. *Cell reports*, 43(3), 113865.

Kim HJ, et al. (2023) GABAergic-like dopamine synapses in the brain. *Cell reports*, 42(10), 113239.

Chen J, et al. (2021) p38-TFEB pathways promote microglia activation through inhibiting CMA-mediated NLRP3 degradation in Parkinson's disease. *Journal of neuroinflammation*, 18(1), 295.

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

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).

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.

Lee BE, et al. (2020) O-GlcNAcylation regulates dopamine neuron function, survival and degeneration in Parkinson disease. *Brain : a journal of neurology*, 143(12), 3699.

Gui C, et al. (2020) p38 MAPK-DRP1 signaling is involved in mitochondrial dysfunction and cell death in mutant A53T α -synuclein model of Parkinson's disease. *Toxicology and applied pharmacology*, 388, 114874.

Mao K, et al. (2020) Poly (ADP-ribose) polymerase 1 inhibition prevents neurodegeneration and promotes α -synuclein degradation via transcription factor EB-dependent autophagy in mutant α -synucleinA53T model of Parkinson's disease. *Aging cell*, 19(6), e13163.

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.

Chen J, et al. (2018) Phosphorylation of Parkin at serine 131 by p38 MAPK promotes mitochondrial dysfunction and neuronal death in mutant A53T α -synuclein model of Parkinson's disease. *Cell death & disease*, 9(6), 700.

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

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.