

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pF141 pAcGFP1 SOD1WT

RRID:Addgene_26402

Type: Plasmid

Proper Citation

RRID:Addgene_26402

Plasmid Information

URL: <http://www.addgene.org/26402>

Proper Citation: RRID:Addgene_26402

Insert Name: SOD1

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:20221404](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pAcGFP1-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: The complete cDNA was subcloned into the vector pET28 and then a PCR amplified the complete cDNA with EcoRI and SalI sites on the 5' and 3' end respectively. This EcoRI-SalI 0.47kb fragment was cloned into the respective EcoRI and SalI sites of pACGFPC1. Thus GFP is 5' of the SOD1 insert and upstream in the GFP-SOD1 fusion protein.

Plasmid Name: pF141 pAcGFP1 SOD1WT

Record Creation Time: 20220422T222118+0000

Record Last Update: 20260725T074508+0000

Ratings and Alerts

No rating or validation information has been found for pF141 pAcGFP1 SOD1WT.

No alerts have been found for pF141 pAcGFP1 SOD1WT.

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 [NIF](#) .

Larrea D, et al. (2025) Altered mitochondria-associated ER membrane (MAM) function shifts mitochondrial metabolism in amyotrophic lateral sclerosis (ALS). *Nature communications*, 16(1), 379.

Woo TG, et al. (2025) Inhibition of SOD1 trimerization is a novel drug target for ALS disease. *Translational neurodegeneration*, 14(1), 21.

Dubey AR, et al. (2023) Itraconazole Confers Cytoprotection Against Neurodegenerative Disease-Associated Abnormal Protein Aggregation. *Molecular neurobiology*, 60(5), 2397.

Guan T, et al. (2023) Selective removal of misfolded SOD1 delays disease onset in a mouse model of amyotrophic lateral sclerosis. *Cellular and molecular life sciences : CMLS*, 80(10), 304.

Naqvi S, et al. (2022) Albumin-Based Nanocarriers for the Simultaneous Delivery of Antioxidant Gene and Phytochemical to Combat Oxidative Stress. *Frontiers in cell and developmental biology*, 10, 846175.

Liu X, et al. (2022) Pharmacological inhibition of ALCAT1 mitigates amyotrophic lateral sclerosis by attenuating SOD1 protein aggregation. *Molecular metabolism*, 63, 101536.

Woo TG, et al. (2021) Novel chemical inhibitor against SOD1 misfolding and aggregation protects neuron-loss and ameliorates disease symptoms in ALS mouse model. *Communications biology*, 4(1), 1397.

Joshi V, et al. (2019) Polyphenolic flavonoid (Myricetin) upregulated proteasomal degradation mechanisms: Eliminates neurodegenerative proteins aggregation. *Journal of cellular physiology*, 234(11), 20900.

Pinto C, et al. (2019) γ -catenin aggregation in models of ALS motor neurons: GSK3 β inhibition effect and neuronal differentiation. *Neurobiology of disease*, 130, 104497.

Joshi AU, et al. (2019) Fragmented mitochondria released from microglia trigger A1 astrocytic response and propagate inflammatory neurodegeneration. *Nature neuroscience*, 22(10), 1635.

Upadhyay A, et al. (2018) Lanosterol Suppresses the Aggregation and Cytotoxicity of Misfolded Proteins Linked with Neurodegenerative Diseases. *Molecular neurobiology*, 55(2), 1169.