Resource Summary Report

Generated by ASWG on Aug 5, 2026

w[*]; P{w[+mC]=UAS-Hsap\SNCA.F}5B

RRID:BDSC_8146
Type: Organism

Proper Citation

RRID:BDSC_8146

Organism Information

URL: https://n2t.net/bdsc:8146

Proper Citation: RRID:BDSC_8146

Description: Drosophila melanogaster with name w[*]; P{w[+mC]=UAS-Hsap\SNCA.F}5B from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Nancy Bonini, University of Pennsylvania

Affected Gene: Hsap\SNCA, UAS, w

Genomic Alteration: Chromosome 1, Chromosome 3

Catalog Number: 8146

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_8146, BL8146

Organism Name: w[*]; P{w[+mC]=UAS-Hsap\SNCA.F}5B

Record Creation Time: 20240911T222214+0000

Record Last Update: 20260801T194645+0000

Ratings and Alerts

No rating or validation information has been found for w[*]; P{w[+mC]=UAS-Hsap\SNCA.F}5B.

No alerts have been found for w[*]; P{w[+mC]=UAS-Hsap\SNCA.F}5B.

Data and Source Information

Source: Integrated Animals

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 23 mentions in open access literature.

Listed below are recent publications. The full list is available at ASWG .

Plotnikova E, et al. (2025) Translational Relevance of SCA1 Models for the Development of Therapies for Spinocerebellar Ataxia Type 1. Biomedicines, 13(12).

Perry S, et al. (2025) Validating and Optimizing a Drosophila Larval Model of Parkinson's Synucleopathy. microPublication biology, 2025.

Perlegos AE, et al. (2024) TDP-43 impairs sleep in Drosophila through Ataxin-2-dependent metabolic disturbance. Science advances, 10(2), eadj4457.

Xia D, et al. (2024) Overexpression of ?-synuclein in PDF neurons alters sleep-wake pattern by regulating lipid metabolism in Drosophila. Sleep.

Idowu OK, et al. (2024) Ribose-cysteine and levodopa abrogate Parkinsonism via the regulation of neurochemical and redox activities in alpha-synuclein transgenic Drosophila melanogaster models. Fly, 18(1), 2306687.

Narwal S, et al. (2023) Analysis of ?-syn and parkin interaction in mediating neuronal death in Drosophila model of Parkinson's disease. Frontiers in cellular neuroscience, 17, 1295805.

Dhanushkodi NR, et al. (2023) ATP13A2 Gene Silencing in Drosophila Affects Autophagic Degradation of A53T Mutant ?-Synuclein. International journal of molecular sciences, 24(2).

Di Leva F, et al. (2023) Increased Levels of the Parkinson's Disease-Associated Gene ITPKB Correlate with Higher Expression Levels of ?-Synuclein, Independent of Mutation Status. International journal of molecular sciences, 24(3).

Golomidov IM, et al. (2022) Reduction of the ?-synuclein expression promotes slowing down early neuropathology development in the Drosophila model of Parkinson's disease. Journal of neurogenetics, 36(1), 1.

Tripodi F, et al. (2022) Anti-Aging and Neuroprotective Properties of Grifola frondosa and Hericium erinaceus Extracts. Nutrients, 14(20).

Xue J, et al. (2022) Loss of Drosophila NUS1 results in cholesterol accumulation and Parkinson's disease-related neurodegeneration. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 36(7), e22411.

Girard V, et al. (2021) Abnormal accumulation of lipid droplets in neurons induces the conversion of alpha-Synuclein to proteolytic resistant forms in a Drosophila model of Parkinson's disease. PLoS genetics, 17(11), e1009921.

Habernig L, et al. (2021) Ca2+ administration prevents ?-synuclein proteotoxicity by stimulating calcineurin-dependent lysosomal proteolysis. PLoS genetics, 17(11), e1009911.

Liang Z, et al. (2021) A SUMO1-Derived Peptide Targeting SUMO-Interacting Motif Inhibits ?-Synuclein Aggregation. Cell chemical biology, 28(2), 180.

Arsac JN, et al. (2021) Chronic Exposure to Paraquat Induces Alpha-Synuclein Pathogenic Modifications in Drosophila. International journal of molecular sciences, 22(21).

Golomidov I, et al. (2020) The neuroprotective effect of fullerenols on a model of Parkinson's disease in Drosophila melanogaster. Biochemical and biophysical research communications, 523(2), 446.

Sakai R, et al. (2019) E46K mutant ?-synuclein is more degradation resistant and exhibits greater toxic effects than wild-type ?-synuclein in Drosophila models of Parkinson's disease. PloS one, 14(6), e0218261.

Abul Khair SB, et al. (2018) Silencing of Glucocerebrosidase Gene in Drosophila Enhances the Aggregation of Parkinson's Disease Associated ?-Synuclein Mutant A53T and Affects Locomotor Activity. Frontiers in neuroscience, 12, 81.

Nevzglyadova OV, et al. (2018) Yeast red pigment modifies cloned human ?-synuclein pathogenesis in Parkinson disease models in Saccharomyces cerevisiae and Drosophila melanogaster. Neurochemistry international, 120, 172.

Coelho DS, et al. (2018) Culling Less Fit Neurons Protects against Amyloid-?-Induced Brain Damage and Cognitive and Motor Decline. Cell reports, 25(13), 3661.