Resource Summary Report

Generated by T1D on Sep 16, 2026

w[*]; P{w[+mC]=UAS-Hsap\SNCA.A53T}CG7900[15.3]

RRID:BDSC_8148
Type: Organism

Proper Citation

RRID:BDSC_8148

Organism Information

URL: https://n2t.net/bdsc:8148

Proper Citation: RRID:BDSC_8148

Description: Drosophila melanogaster with name w[*]; P{w[+mC]=UAS-Hsap\SNCA.A53T}CG7900[15.3] from BDSC.

Species: Drosophila melanogaster

Notes: Donor: Nancy Bonini, University of Pennsylvania

Affected Gene: CG7900, Hsap\SNCA, UAS, w

Genomic Alteration: Chromosome 1, Chromosome 3

Catalog Number: 8148

Database: Bloomington Drosophila Stock Center (BDSC)

Database Abbreviation: BDSC

Availability: available

Alternate IDs: BDSC_8148, BDSC:8148, BL8148

Organism Name: w[*]; P{w[+mC]=UAS-Hsap\SNCA.A53T}CG7900[15.3]

Record Creation Time: 20240911T222214+0000

Record Last Update: 20260912T203142+0000

Ratings and Alerts

No rating or validation information has been found for w[*]; P{w[+mC]=UAS-Hsap\SNCA.A53T}CG7900[15.3].

No alerts have been found for w[*]; P{w[+mC]=UAS-Hsap\SNCA.A53T}CG7900[15.3].

Data and Source Information

Source: Integrated Animals

Source Database: Bloomington Drosophila Stock Center (BDSC)

Usage and Citation Metrics

We found 20 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Liang Z, et al. (2025) Gene delivery of SUMO1-derived peptide rescues neuronal degeneration and motor deficits in a mouse model of Parkinson's disease. Molecular therapy : the journal of the American Society of Gene Therapy, 33(7), 3056.

Vos M, et al. (2025) Gut Transit Defects in Drosophila Models of Monogenic Parkinson's Disease Using a Constipation Assay. Journal of visualized experiments : JoVE(221).

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

Kajtor M, et al. (2025) Altered reactivity to threatening stimuli in Drosophila models of Parkinson's disease, revealed by a trial-based assay. eLife, 13.

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

Imomnazarov K, et al. (2024) Biochemical fractionation of human ?-Synuclein in a Drosophila model of synucleinopathies. bioRxiv : the preprint server for biology.

Imomnazarov K, et al. (2024) Biochemical Fractionation of Human ?-Synuclein in a Drosophila Model of Synucleinopathies. International journal of molecular sciences, 25(7).

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

Singh SB, et al. (2024) Pathogenic Huntingtin aggregates alter actin organization and cellular stiffness resulting in stalled clathrin-mediated endocytosis. eLife, 13.

Buck SA, et al. (2023) Sexually dimorphic mechanisms of VGLUT-mediated protection from dopaminergic neurodegeneration. bioRxiv : the preprint server for biology.

Szinyákovics J, et al. (2023) Potent New Targets for Autophagy Enhancement to Delay Neuronal Ageing. Cells, 12(13).

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

Ledahawsky LM, et al. (2022) The mitochondrial protein Sideroflexin 3 (SFXN3) influences neurodegeneration pathways in vivo. The FEBS journal, 289(13), 3894.

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.

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.

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.

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.

Kang J, et al. (2017) An Evolutionarily Conserved Role of Presenilin in Neuronal Protection in the Aging Drosophila Brain. Genetics, 206(3), 1479.