

Resource Summary Report

Generated by [dkNET](#) on Sep 20, 2026

STOCK *Nos2*⁺ Tg(APPSWE)2576Kha Tg(Thy1-PSEN1*A246E)16-3Sqn/Mmnc

RRID:MMRRC_011170-UNC

Type: Organism

Proper Citation

RRID:MMRRC_011170-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=11170

Proper Citation: RRID:MMRRC_011170-UNC

Description: Mus musculus with name STOCK *Nos2*⁺ Tg(APPSWE)2576Kha Tg(Thy1-PSEN1*A246E)16-3Sqn/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Immunology and Inflammation, Models for Human Disease, Neurobiology; Mutation Type: Transgenic ; Collection:

Phenotype: increased circulating LDL cholesterol level [MP:0000182] amyloidosis [MP:0000604] abnormal forebrain morphology [MP:0000783] abnormal hindbrain morphology [MP:0000841] small cerebellum [MP:0000852] abnormal cerebellar foliation [MP:0000857] decreased body weight [MP:0001262] decreased anxiety-related response [MP:0001364] hyperactivity [MP:0001399] abnormal response to new environment [MP:0001413] decreased exploration in new environment [MP:0001417] decreased grooming behavior [MP:0001442] abnormal object recognition memory [MP:0001458] abnormal spatial learning [MP:0001463] reduced long term potentiation [MP:0001473] hunched posture [MP:0001505] abnormal lipid level [MP:0001547] impaired synaptic plasticity [MP:0001900] reduced NMDA-mediated synaptic currents [MP:0001902] intracranial hemorrhage [MP:0001915] postnatal lethality [MP:0002082] premature death [MP:0002083] abnormal blood circulation [MP:0002128] abnormal astrocyte morphology [MP:0002182] gliosis [MP:0002183] neurodegeneration [MP:0002229] increased thigmotaxis [MP:0002797] abnormal eye blink conditioning behavior [MP:0002807] abnormal neuron morphology [MP:0002882] abnormal excitatory postsynaptic potential [MP:0002912] decreased post-tetanic potentiation [MP:0002922] neurofibrillary tangles [MP:0003214] neuron degeneration [MP:0003224] loss of hippocampal neurons [MP:0003240] amyloid beta deposits [MP:0003329] astrogliosis [MP:0003354] abnormal microglial cell physiology [MP:0003691] tau protein deposits [MP:0004250] cerebral

amyloid angiopathy [MP:0004254]| abnormal miniature excitatory postsynaptic currents [MP:0004753]| abnormal neuron physiology [MP:0004811]| increased circulating cholesterol level [MP:0005178]| abnormal eye physiology [MP:0005253]| abnormal renal glomerulus morphology [MP:0005325]| abnormal hippocampus CA3 region morphology [MP:0008267]| abnormal subiculum morphology [MP:0008287]| abnormal spatial working memory [MP:0008428]| abnormal short term spatial reference memory [MP:0008431]| abnormal long term spatial reference memory [MP:0008432]| microgliosis [MP:0008918]| decreased neuron number [MP:0008948]| paraparesis [MP:0009434]| enhanced contextual conditioning behavior [MP:0009453]| abnormal synapse morphology [MP:0009538]| decreased brain zinc level [MP:0009617]| increased brain zinc level [MP:0009618]| reduced AMPA-mediated synaptic currents [MP:0011003]| abnormal catecholamine level [MP:0011479]| decreased vocalization [MP:0020351]

Affected Gene: |APP|Prnp|PSEN1||THY1|Nos2|

Catalog Number: 011170-UNC

Background: Transgenic

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:16260491](#), [PMID:8810256](#), [PMID:7538909](#), [PMID:15450355](#), [PMID:9539133](#), [PMID:1302033](#), [PMID:7576662](#)

Alternate IDs: MMRRC_11170-UNC, MMRRC_011170, MMRRC_1117

Organism Name: STOCK *Nos2*⁺ Tg(APP^{SWE})2576Kha Tg(Thy1-PSEN1^{*A246E})16-3Sqn/Mmnc

Record Creation Time: 20230308T054909+0000

Record Last Update: 20260919T133249+0000

Ratings and Alerts

No rating or validation information has been found for STOCK *Nos2*⁺ Tg(APP^{SWE})2576Kha Tg(Thy1-PSEN1^{*A246E})16-3Sqn/Mmnc.

No alerts have been found for STOCK *Nos2*⁺ Tg(APP^{SWE})2576Kha Tg(Thy1-PSEN1^{*A246E})16-3Sqn/Mmnc.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We have not found any literature mentions for this resource.