

Resource Summary Report

Generated by [NIF](#) on Aug 2, 2026

STOCK *Nos2^{tm1Mrl}* Tg(APPSE)2576Kha Tg(Thy1-PSEN1*A246E)16-3Sqn/Mmnc

RRID:MMRRC_011171-UNC

Type: Organism

Proper Citation

RRID:MMRRC_011171-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=11171

Proper Citation: RRID:MMRRC_011171-UNC

Description: Mus musculus with name STOCK *Nos2^{tm1Mrl}* Tg(APPSE)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: Targeted Mutation ; Collection:

Phenotype: increased white adipose tissue amount [MP:0000008]| increased bone mineral density [MP:0000062]| abnormal trabecular bone morphology [MP:0000130]| increased circulating LDL cholesterol level [MP:0000182]| abnormal circulating glucose level [MP:0000188]| abnormal circulating serum albumin level [MP:0000199]| hypertension [MP:0000231]| decreased digestive secretion [MP:0000505]| abnormal uterus morphology [MP:0001120]| increased body weight [MP:0001260]| polydipsia [MP:0001426]| dehydration [MP:0001429]| abnormal skeleton physiology [MP:0001533]| abnormal osteoclast physiology [MP:0001541]| abnormal cardiovascular system physiology [MP:0001544]| increased circulating triglyceride level [MP:0001552]| irregular heartbeat [MP:0001636]| abnormal digestion [MP:0001664]| polyuria [MP:0001762]| abnormal homeostasis [MP:0001764]| abnormal immune system physiology [MP:0001790]| decreased IgG level [MP:0001805]| decreased IgM level [MP:0001806]| increased inflammatory response [MP:0001846]| pancreas inflammation [MP:0001869]| abnormal mammary gland physiology [MP:0001881]| reduced fertility [MP:0001921]| decreased litter size [MP:0001935]| abnormal motor capabilities/coordination/movement [MP:0002066]| abnormal sensory capabilities/reflexes/nociception [MP:0002067]| abnormal glucose homeostasis [MP:0002078]| premature death [MP:0002083]| abnormal cardiovascular system morphology [MP:0002127]| abnormal blood circulation [MP:0002128]| abnormal kidney physiology [MP:0002136]| increased susceptibility to bacterial infection

[MP:0002412] abnormal macrophage physiology [MP:0002451] abnormal immunoglobulin level [MP:0002490] abnormal eosinophil cell number [MP:0002602] abnormal vitreous body morphology [MP:0002699] abnormal thermal nociception [MP:0002733] increased systemic arterial blood pressure [MP:0002842] increased growth rate [MP:0002865] increased insulin sensitivity [MP:0002891] abnormal bone mineralization [MP:0002896] delayed wound healing [MP:0002908] thick ventricular wall [MP:0002953] increased circulating alkaline phosphatase level [MP:0002968] abnormal cardiac muscle contractility [MP:0002972] decreased urine osmolality [MP:0002988] abnormal bone healing [MP:0002999] increased myocardial infarction size [MP:0003037] allodynia [MP:0003177] neuron degeneration [MP:0003224] liver fibrosis [MP:0003333] abnormal bone structure [MP:0003795] enlarged stomach [MP:0003883] abnormal tooth hard tissue morphology [MP:0003930] abnormal hormone level [MP:0003953] abnormal nitric oxide homeostasis [MP:0003957] abnormal adrenocorticotropin level [MP:0003966] decreased cholesterol level [MP:0003983] arteriosclerosis [MP:0003991] abnormal uterine artery morphology [MP:0003995] abnormal vascular endothelial cell physiology [MP:0004003] decreased susceptibility to kidney reperfusion injury [MP:0004042] abnormal coronary artery morphology [MP:0004111] increased renal tubule apoptosis [MP:0004153] renal tubular necrosis [MP:0004154] abnormal myocardial fiber physiology [MP:0004215] abnormal peripheral nervous system regeneration [MP:0004220] increased length of allograft survival [MP:0004751] increased susceptibility to experimental autoimmune encephalomyelitis [MP:0004799] increased mean systemic arterial blood pressure [MP:0004875] abnormal vascular wound healing [MP:0004883] decreased adiponectin level [MP:0004893] abnormal osteoclast morphology [MP:0004982] increased osteoclast cell number [MP:0004984] decreased osteoclast cell number [MP:0004985] decreased eosinophil cell number [MP:0005012] abnormal response to infection [MP:0005025] increased circulating prolactin level [MP:0005124] decreased cardiac muscle contractility [MP:0005140] increased circulating cholesterol level [MP:0005178] abnormal circulating estradiol level [MP:0005183] glomerulosclerosis [MP:0005264] improved glucose tolerance [MP:0005292] abnormal heart ventricle morphology [MP:0005294] abnormal response to tactile stimuli [MP:0005316] abnormal renal glomerulus morphology [MP:0005325] decreased heart rate [MP:0005333] atherosclerotic lesions [MP:0005338] increased circulating creatinine level [MP:0005553] increased blood urea nitrogen level [MP:0005565] increased renin activity [MP:0005582] decreased cerebral infarction size [MP:0006058] congestive heart failure [MP:0006138] abnormal atrioventricular node conduction [MP:0006141] increased systemic arterial systolic blood pressure [MP:0006144] abnormal involution of the mammary gland [MP:0006271] decreased urine sodium level [MP:0006317] intestine polyps [MP:0008011] abnormal osteoclast differentiation [MP:0008396] increased IgG2a level [MP:0008500] increased interferon-gamma secretion [MP:0008566] decreased susceptibility to endotoxin shock [MP:0008734] decreased survivor rate [MP:0008770] abnormal heart ventricle pressure [MP:0008775] increased blood osmolality [MP:0008997] prolonged diestrus [MP:0009011] abnormal platelet aggregation [MP:0009548] abnormal blood homeostasis [MP:0009642] abnormal urine homeostasis [MP:0009643] abnormal induced retinal neovascularization [MP:0009660] increased prostaglandin level [MP:0009814] visceral vascular congestion [MP:0010017] pulmonary vascular congestion [MP:0010018] liver vascular congestion [MP:0010019] abnormal heart electrocardiography waveform feature [MP:0010508] abnormal heart right ventricle pressure [MP:0010755] pyloric sphincter hypertrophy [MP:0010781] increased bone volume [MP:0010875] increased compact bone mass [MP:0010961] glomerular capillary thrombosis [MP:0011508] decreased urine prostaglandin level [MP:0011564] decreased

urine nitrite level [MP:0011742]] perivascular fibrosis [MP:0011749]] increased food intake [MP:0011939]] hyperlactation [MP:0013717]] 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]] astrocytosis [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: |Nos2|APP||Prnp|PSEN1|THY1|

Catalog Number: 011171-UNC

Background: Targeted Mutation

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_11171-UNC, MMRRC_011171, MMRRC_11171

Organism Name: STOCK *Nos2*^{tm1Mrl} Tg(APP^{SWE})2576Kha Tg(Thy1-PSEN1*A246E)16-3Sqn/Mmnc

Record Creation Time: 20230308T054909+0000

Record Last Update: 20260801T123550+0000

Ratings and Alerts

No rating or validation information has been found for STOCK *Nos2^{tm1Mrl}* Tg(APP^{SWE})2576Kha Tg(Thy1-PSEN1*A246E)16-3Sqn/Mmnc.

No alerts have been found for STOCK *Nos2^{tm1Mrl}* 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.