

Resource Summary Report

Generated by [ASWG](#) on Aug 26, 2026

C57BL/6N-Slc4a7^{Tg(Thy1-SNCA)}12Mjff/J

RRID:IMSR_JAX:016936

Type: Organism

Proper Citation

RRID:IMSR_JAX:016936

Organism Information

URL: <https://www.jax.org/strain/016936>

Proper Citation: RRID:IMSR_JAX:016936

Description: Mus musculus with name C57BL/6N-Slc4a7^{Tg(Thy1-SNCA)}12Mjff/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6N-Tg(Thy1-SNCA)12Mjff/J. C57BL/6N-Tg(Thy1-SNCA)12Youy/J

Notes: gene symbol note: solute carrier family 4; sodium bicarbonate cotransporter; member 7|thymus cell antigen 1; theta|synuclein alpha; coisogenic strain|mutant strain: Slc4a7|Thy1|SNCA

Affected Gene: solute carrier family 4; sodium bicarbonate cotransporter; member 7|thymus cell antigen 1; theta|synuclein alpha

Genomic Alteration: transgene insertion 12; The Michael J Fox Foundation

Catalog Number: JAX:016936

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: C57BL/6N-Slc4a7^{Tg(Thy1-SNCA)}12Mjff/J

Record Creation Time: 20250513T053731+0000

Record Last Update: 20260815T050645+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6N-Slc4a7^{Tg}(Thy1-SNCA)^{12Mjff/J}.

No alerts have been found for C57BL/6N-Slc4a7^{Tg}(Thy1-SNCA)^{12Mjff/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Ochiai T, et al. (2021) Differential involvement of insulin receptor substrate (IRS)-1 and IRS-2 in brain insulin signaling is associated with the effects on amyloid pathology in a mouse model of Alzheimer's disease. *Neurobiology of disease*, 159, 105510.

Wakabayashi T, et al. (2019) Differential effects of diet- and genetically-induced brain insulin resistance on amyloid pathology in a mouse model of Alzheimer's disease. *Molecular neurodegeneration*, 14(1), 15.