

# Resource Summary Report

Generated by [NIF](#) on Sep 3, 2026

## C57BL/6N-Slc4a7<sup>Tg(Thy1-SNCA)</sup>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<sup>Tg(Thy1-SNCA)</sup>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<sup>Tg(Thy1-SNCA)</sup>12Mjff/J

**Record Creation Time:** 20250513T053731+0000

**Record Last Update:** 20260829T045029+0000

### Ratings and Alerts

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

No alerts have been found for C57BL/6N-Slc4a7<sup>Tg</sup>(Thy1-SNCA)<sup>12Mjff/J</sup>.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 2 mentions in open access literature.

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

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.