

Resource Summary Report

Generated by [T1D](#) on Sep 18, 2026

[Slc7a11^{tm1Hsat}/Slc7a11^{tm1Hsat}](#)

RRID:MGI:3608978

Type: Organism

Proper Citation

RRID:MGI:3608978

Organism Information

URL:

Proper Citation: RRID:MGI:3608978

Description: Allele Detail: Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Targeted This is a legacy resource.

Phenotype: abnormal circulating amino acid level, increased circulating cysteine level, decreased fibroblast proliferation, abnormal cell death

Affected Gene: Slc7a11

Genomic Alteration: tm1Hsat

Catalog Number: 3608978

Background: involves: 129P2/OlaHsd * C57BL/6

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:16144837](#)

Organism Name: Slc7a11^{tm1Hsat}/Slc7a11^{tm1Hsat}

Record Creation Time: 20240120T190614+0000

Record Last Update: 20240130T202013+0000

Ratings and Alerts

No rating or validation information has been found for Slc7a11^{tm1Hsat}/Slc7a11^{tm1Hsat}.

No alerts have been found for Slc7a11^{tm1Hsat}/Slc7a11^{tm1Hsat}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Hu QX, et al. (2020) Semi-quantitative distribution of excitatory amino acid (glutamate) transporters 1-3 (EAAT1-3) and the cystine-glutamate exchanger (xCT) in the adult murine spinal cord. *Neurochemistry international*, 140, 104811.

Ottestad-Hansen S, et al. (2018) The cystine-glutamate exchanger (xCT, Slc7a11) is expressed in significant concentrations in a subpopulation of astrocytes in the mouse brain. *Glia*, 66(5), 951.

Ojeda-Torres G, et al. (2015) Sample collection and amino acids analysis of extracellular fluid of mouse brain slices with low flow push-pull perfusion. *The Analyst*, 140(19), 6563.

Williams LE, et al. (2014) Regulation of hippocampal synaptic strength by glial xCT. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 34(48), 16093.