

Resource Summary Report

Generated by T1D on Sep 20, 2026

B6.129-Cyp27a1^{tm1Elt/J}

RRID:IMSR_JAX:009106

Type: Organism

Proper Citation

RRID:IMSR_JAX:009106

Organism Information

URL: <https://www.jax.org/strain/009106>

Proper Citation: RRID:IMSR_JAX:009106

Description: Mus musculus with name B6.129-Cyp27a1^{tm1Elt/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: cytochrome P450; family 27; subfamily a; polypeptide 1; mutant strain|congenic strain: Cyp27a1

Affected Gene: cytochrome P450; family 27; subfamily a; polypeptide 1

Genomic Alteration: targeted mutation 1; Eran Leitersdorf

Catalog Number: JAX:009106

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129-Cyp27a1^{tm1Elt/J}

Record Creation Time: 20250513T053713+0000

Record Last Update: 20260919T054901+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-Cyp27a1^{tm1Elt/J}.

No alerts have been found for B6.129-Cyp27a1^{tm1Elt/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Ding L, et al. (2021) Notoginsenoside Ft1 acts as a TGR5 agonist but FXR antagonist to alleviate high fat diet-induced obesity and insulin resistance in mice. *Acta pharmaceutica Sinica. B*, 11(6), 1541.

Lumbreras S, et al. (2021) Gene supplementation of CYP27A1 in the liver restores bile acid metabolism in a mouse model of cerebrotendinous xanthomatosis. *Molecular therapy. Methods & clinical development*, 22, 210.

El-Darzi N, et al. (2021) 2-Hydroxypropyl- β -cyclodextrin reduces retinal cholesterol in wild-type and Cyp27a1^{-/-} Cyp46a1^{-/-} mice with deficiency in the oxysterol production. *British journal of pharmacology*, 178(16), 3220.

Jung JI, et al. (2015) Cholestenoic acid, an endogenous cholesterol metabolite, is a potent γ -secretase modulator. *Molecular neurodegeneration*, 10, 29.

Wang Y, et al. (2014) 24S,25-Epoxycholesterol in mouse and rat brain. *Biochemical and biophysical research communications*, 449(2), 229.