

Resource Summary Report

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

[Pou3f4^{tm1Cren}](#)

RRID:MGI:3046172

Type: Organism

Proper Citation

RRID:MGI:3046172

Organism Information

URL:

Proper Citation: RRID:MGI:3046172

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

Species: Mus musculus

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

Phenotype: distended Reissner membrane, abnormal lateral semicircular canal morphology, abnormal stapes morphology, abnormal cochlea morphology, deafness, abnormal stapes morphology, head bobbing, abnormal pinna reflex, abnormal oval window morphology, abnormal gait, dilated endolymphatic duct, abnormal subarcuate fossa morphology, decreased cochlear coiling, abnormal scala tympani morphology, abnormal stapes crus morphology, conductive hearing loss, increased or absent threshold for auditory brainstem response, decreased endocochlear potential, sensorineural hearing loss, abnormal Reissner membrane morphology, abnormal internal auditory canal morphology, abnormal superior semicircular canal morphology, short vibrissae, abnormal spiral ligament fibrocyte morphology, abnormal spiral limbus morphology, abnormal stapes footplate morphology, abnormal bony labyrinth, abnormal stapes footplate morphology, small scala tympani, abnormal superior semicircular canal morphology, abnormal temporal bone morphology

Affected Gene: Pou3f4

Genomic Alteration: tm1Cren

Catalog Number: 3046172

Background: involves: 129S1/Sv * 129X1/SvJ * C57BL/6J

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:15574296](#), [PMID:10407036](#), [PMID:15655183](#)

Organism Name: Pou3f4^{tm1Cren}

Record Creation Time: 20240120T190656+0000

Record Last Update: 20240130T202037+0000

Ratings and Alerts

No rating or validation information has been found for Pou3f4^{tm1Cren}.

No alerts have been found for Pou3f4^{tm1Cren}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Rose KP, et al. (2023) Spatially distinct otic mesenchyme cells show molecular and functional heterogeneity patterns before hearing onset. iScience, 26(10), 107769.

Brooks PM, et al. (2020) Pou3f4-expressing otic mesenchyme cells promote spiral ganglion neuron survival in the postnatal mouse cochlea. The Journal of comparative neurology, 528(12), 1967.