

STOCK *Insm1*^{tm1.1Mgn} /Mmjax

MMRRC Stock No: 36986-JAX

 Targeted Mutation

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cells and for studying pancreatic endocrine, neural and olfactory epithelium progenitor cells.

Donating Investigator

Mark A. Magnuson, Vanderbilt University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Insm1^{tm1.1Mgn}

Alele Type

Targeted (Recombinase-expressing, Reporter)

Gene Symbol

Insm1

Gene Name

insulinoma-associated 1

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

Insm1 (insulinoma-associated 1) encodes a protein containing both a zinc finger DNA-binding domain and a putative prohormone domain. It is expressed in pancreatic endocrine progenitor cells beginning at E9.5. *Insm1* also is expressed in neural and olfactory epithelium precursor cells. *Insm1*(GFP-Cre) mice contain a GFP/Cre fusion cassette that replaces the entire coding region of the *Insm1* gene. Mice homozygous for mutation are not viable.

This strain may be useful for lineage tracing of *Insm1*⁺ cells and for studying pancreatic endocrine, neural and olfactory epithelium progenitor cells.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Insm1^{tm1.1Mgn}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Standard PCR:[Insm1](#)
[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes. Mice homozygous for the mutation are not viable.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Insm1^{tm1.1Mgn}/Mmjax* mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #36986 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

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Phone: 207-288-6470

Email: TechTran@jax.org

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