

STOCK *Mirc24*^{tm1Mtm}/Mmjax

MMRRC Stock No: 36306-JAX

 Targeted Mutation

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allele when combined with Flp or Cre recombinase expressing strains. This mutant mouse strain may be useful in studies of microRNA biology.

Donating Investigator

Michael T McManus, University of California, San Francisco

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GENETIC OVERVIEW

Genetic Background

Generation

Mirc24^{tm1Mtm}

Alele Type

Targeted (Conditional ready (e.g. floxed), Reporter, Null/Knockout)

Gene Symbol

Mirc24

Gene Name

microRNA cluster 24, including Mir351 through Mir322

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When combined with a Flp recombinase-expressing strain, the *lacZ* and neomycin genes are removed leaving an *FRT* site and the *loxP*-flanked miR322 cluster (*Mirc24*) stem loop. A further cross to a Cre-recombinase-expressing strain generates the null allele. When combined with a Cre-recombinase-expressing strain, the neomycin cassette and miR322 cluster stem loop are removed leaving a *lacZ* tagged null allele (*FRT-lacZ-loxP*). This mutant mouse strain may be useful in studies of microRNA biology.

Development

Expression Data

Control Suggestions

Genetics

Mirc24^{tm1Mtm}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support



Genotyping Protocols

Standard PCR:[Mir322](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice have been bred as heterozygotes, however, the Donating Investigator indicates that homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Mirc24^{tm1Mtm}/Mmjax* mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #36306 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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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Phone: 207-288-6470

Email: TechTran@jax.org

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All

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By Gene

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