

STOCK *Mir130a^{tm1Mtm}* /Mmjax

MMRRC Stock No: 34658-JAX

 Targeted Mutation

ORDER AT MMRRC JAX

[Email](#) [Download PDF](#) [Help](#)

combined with Flp or Cre recombinase expressing strains. *LacZ* expression is widespread. This mutant mouse strain may be useful in studies of microRNA biology.

Donating Investigator

Michael T McManus, University of California, San Francisco

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Mir130a^{tm1Mtm}

Alele Type

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

Gene Symbol

Mir130a

Gene Name

microRNA 130a

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research
Neurobiology Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

Mice that are heterozygous 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 miR-130a 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 miR-130a stem loop are removed leaving a *lacZ* tagged null allele (FRT-*lacZ*-*loxP*). *LacZ* expression is widespread. Homozygous mice are viable, but have not been characterized. This mutant mouse strain may be useful in studies of microRNA biology.

Development

Expression Data

Control Suggestions

Genetics

Mir130a^{tm1Mtm}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Standard PCR:[Mir130a](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, the donating investigator crossed heterozygote to wild-type. Homozygotes are viable, but fertility has not been assessed.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Mir130a^{tm1Mtm}/Mmjax* mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #34658 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

THE JACKSON LABORATORY'S GENOTYPE PROMISE

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.

Terms Of Use

TERMS OF USE

[General Terms and Conditions](#)

[See MMRRC for Additional Conditions of Distribution](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS LEGAL INFORMATION

RESEARCH CENTERS MOUSE GENOME INFORMATICS

MOUSE PHENOME DATABASE

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region



^
E E E D B

Did you find what you were looking for?

Yes No