

STOCK *Mir688^{tm1Mtm}* /Mmjax

MMRRC Stock No: 34661-JAX

 Targeted Mutation

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combined with Flp or Cre recombinase expressing strains. *LacZ* expression is observed in brain. 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

Mir688^{tm1Mtm}

Alele Type

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

Gene Symbol

Mir688

Gene Name

microRNA 688

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Cell Biology 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-688 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-688 stem loop are removed leaving a *lacZ* tagged null allele (FRT-*lacZ*-*loxP*). *LacZ* expression is observed in brain. Homozygous mice have not been characterized. This mutant mouse strain may be useful in studies of microRNA biology.

Development

Expression Data

Control Suggestions

Genetics

Mir688^{tm1Mtm}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Standard PCR:[Mir688](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, the donating investigator crossed heterozygote to wild-type.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Mir688^{tm1Mm}*/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #34661 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.

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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By Allele

By Gene

By Collection



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