

**STOCK *Mir7-2<sup>tm1Mtm</sup> /Mmjax***

MMRRC Stock No: **34648-JAX**

 Targeted Mutation

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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

*Mir7-2<sup>tm1Mtm</sup>*

**Alele Type**

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

**Gene Symbol**

*Mir7-2*

**Gene Name**

microRNA 7-2

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 miR-7-2 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-7-2 stem loop are removed leaving a *lacZ* tagged null allele (*FRT-lacZ-loxP*). *LacZ* expression is observed in embryonic brain and spinal cord. This mutant mouse strain may be useful in studies of microRNA biology.

### Development

### Expression Data

### Control Suggestions

## Genetics

### *Mir7-2<sup>tm1Mtm</sup>*

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### References

## Technical Support

C O N T A C T   T E C H N I C A L   S U P P O R T

## Genotyping Protocols

Standard PCR:[Mir7-2-Alternate 2](#)

Standard PCR:[Mir7-2](#)

Standard PCR:[Generic Neo](#)

Standard PCR:[Generic LacZ Melt Curve Analysis](#)

Probe:[Generic Neo](#)

Probe:[Generic LacZ Probe](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

While maintaining a live colony, these mice have been bred as heterozygotes. The Donating Investigator has not developed a homozygous colony.

[Additional Breeding and Husbandry Support](#)

## Citation

When using the STOCK *Mir7-2<sup>tm1Mtm</sup>/Mmjax* mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #34648 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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