

STOCK *Mir7b<sup>tm1Mtm</sup>* /Mmjax

MMRRC Stock No: 34798-JAX

 Targeted Mutation

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

*Mir7b<sup>tm1Mtm</sup>*

**Alele Type**

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

**Gene Symbol**

*Mir7b*

**Gene Name**

microRNA 7b

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS

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## 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-7b 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-7b 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.

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### Development

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### Expression Data

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### Control Suggestions

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## Genetics

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### *Mir7b<sup>tm1Mtm</sup>*

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## Disease/Phenotype

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### Disease Terms

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### Research Areas By Phenotype

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### Mammalian Phenotype Terms by Genotype

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### References

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## Technical Support

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## Genotyping Protocols

Separated PCR:[Mir7b/alternate2](#)

[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 *Mir7b<sup>tm1Mm</sup>/Mmjax* mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #34798 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

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## LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

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By Gene

By Collection



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