

STOCK *Mir325<sup>tm1Mtm</sup>* /Mmjax

MMRRC Stock No: 36800-JAX

 Targeted Mutation

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combined with Flp or Cre recombinase expressing strains. *lacZ* expression is observed in the central nervous system, brain, spinal cord and visual sensory system.. 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

*Mir325<sup>tm1Mtm</sup>*

**Alele Type**

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

**Gene Symbol**

*Mir325*

**Gene Name**

microRNA 325

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Cell Biology Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

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## Details

### Detailed Description

Mice that are homozygous for the targeted mutation are viable and fertile. When combined with a Flp recombinase-expressing strain, the *lacZ* and neomycin genes are removed leaving an *FRT* site and the loxP-flanked miR325 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 miR325 stem loop are removed leaving a *lacZ* tagged null allele (FRT-lacZ-loxP). *LacZ* expression is observed in the central nervous system, brain, spinal cord and visual sensory system. This mutant mouse strain may be useful in studies of microRNA biology. Additional information about this mirKO mouse can be found [here](#).

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### Development

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### Expression Data

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### Control Suggestions

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### Selected References

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## Genetics

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### *Mir325<sup>tm1Mtm</sup>*

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## Disease/Phenotype

### 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

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:[Mir325](#)

[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 *Mir325<sup>tm1Mm</sup>/Mmjax* mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #36800 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

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By Collection



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