

STOCK *Mirc10*^{tm1Mtm}/MmjaxMMRRC Stock No: **37643-JAX** | miR-15b/miR-16-2 flox Targeted Mutation[ORDER AT MMRRC JAX](#)[Email](#) [Download PDF](#) [Help](#)

These microRNA cluster 10 (or Mir15b/Mir16-2) conditional mutant mice are designed to generate a null allele or a *lacZ* tagged null allele when combined with Flp or Cre recombinase expressing strains. This mutant mouse strain may be useful in studies of microRNA biology.

Donating Investigator

Michael T McManus, University of California, San Francisco

[R E A D M O R E +](#)**GENETIC OVERVIEW****Genetic Background****Generation***Mirc10*^{tm1Mtm}**Allele Type**

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

Gene Symbol*Mirc10***Gene Name**

microRNA cluster 10, including Mir15b through Mir16-2

[V I E W G E N E T I C S](#)**RESEARCH APPLICATIONS**Cell Biology Research
Neurobiology Research
Research Tools[V I E W A L L R E S E A R C H A P P L I C A T I O N S](#)

– 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 Mir15b/Mir16-2 (*Mirc10*) 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 *Mirc10* stem loop are removed leaving a *lacZ* tagged null allele (*FRT-lacZ-loxP*). This mutant mouse strain may be useful in studies of microRNA biology. Additional information detailing the development of this mirKO mouse can be found [here](#).

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

– Genetics

+ *Mirc10*^{tm1Mtm}

– Disease/Phenotype

+ Disease Terms

+ Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Mirc10](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice have been bred as heterozygotes, the Donating Investigator has not attempted to generate homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the miR-15b/miR-16-2 flox mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #37643 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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- By Allele
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- By Collection




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