

STOCK *Mirc25^{tm1Mtm}/Mmjax*

MMRRC Stock No: **34655-JAX**

 Targeted Mutation

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tagged null allele when combined with Flp or Cre recombinase expressing strains. *LacZ* expression is widespread. 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

Mirc25^{tm1Mtm}

Alele Type

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

Gene Symbol

Mirc25

Gene Name

microRNA cluster 25, including Mir130b through Mir301b

Marker(s)

Marker Symbol

Mir301b

Mir130b

Marker Name

microRNA 301b

microRNA 130b

V I E W G E N E T I C S

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-130b/miR301b (*Mirc25*) 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-130b/miR-301b stem loop are removed leaving a *lacZ* tagged null allele (*FRT-lacZ-loxP*). *LacZ* expression is widespread. Homozygous mice have not been characterized. This mutant mouse strain may be useful in studies of microRNA biology.

Development

Expression Data

Control Suggestions

Genetics

Mirc25^{tm1Mtm}

Mir301b

Mir130b

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:[Mir130b/Mir301b](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice have been bred as heterozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Mirc25^{tm1Mtm}/Mmjax* mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #34655 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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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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By Allele

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