The Jackson Laboratory

B6N.129S6-*Dbi* ^{tm1Kier} /Mmjax

MMRRC Stock No: **36975-JAX**

Congenic, Targeted Mutation

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This strain may be useful for studying the role of the acyl-CoA intracellular lipid binding protein in embryonic development.

Donating Investigator

Ann Kier, Texas A&M University, College of Veterinary Medicine and Biomedcial Sciences

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GENETIC OVERVIEW

Genetic Background	Generation

Dbi^{tm1Kier}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	*Dbi*	diazepam binding inhibitor

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

VIEW ALL RESEARCH APPLICATION

Details

Detailed Description

Dbi or ACBP (diazepam binding inhibitor) encodes an intracellular lipid binding protein that binds long-chain fatty acyl-CoAs (LCFA-CoAs). ACBP is involved in lipid and glucose metabolism, and is known to modulate several nuclear receptors. ACBP KO mice heterozygous for this null allele are viable and fertile. Homozygous embryos fail to develop past the 2.5 dpc morula (8-cell) stage. This strain may be useful for studying the role of ACBP in embryonic development.

Development

Control Suggestions

Selected References

Genetics

Dbi^{tm1Kier}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:Dbi

Genotyping resources and troubleshooting

Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes; the mutation is embryonic lethal.

Additional Breeding and Husbandry Support

Citation

When using the B6N.129S6-*Dbi*^{tm1Kier}/Mmjax mouse strain in a publication, please cite the originating article(s) and include MMRRC stock #36975 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

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

Terms Of Use

TERMS OF USE

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See MMRRC for Additional Conditions of Distribution

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

Phone: 207-288-6470
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Related Strains

All

By Allele

By Gene

By Collection

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