

B6;129P2-Mecp2^{tm1Bird}/J

Stock No: **006847**

 Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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Donating Investigator

Adrian Bird, University of Edinburgh

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GENETIC OVERVIEW

Genetic Background Generation

Mecp2^{tm1Bird}

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	<i>Mecp2</i>	methyl CpG binding protein 2

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

These mice possess two functional *loxP* sites flanking exons 3-4 of the targeted gene on the X chromosome. Homozygous females and hemizygous males are viable and fertile. Northern blot analysis showed the expected mature transcript from the *Mecp2*^{lox} locus. Also detected was an unspliced beta-globin transcript that was introduced into the locus as part of the targeting vector. When these mutant mice are bred to mice that express *cre* recombinase, resulting offspring will have exons 3-4 deleted in the *cre*-expressing tissue(s). Mice with this X-linked floxed mutation may be useful in neurological and developmental studies of Rett syndrome.

For example, when crossed to a strain expressing Cre recombinase in nervous tissue (see Stock No. [003771](#)), this mutant mouse strain develops a neurological phenotype that mimics Rett syndrome.

When bred to a strain expressing Cre recombinase in embryonic forebrain GABAergic neurons (see Stock No. [008199](#) for example), this mutant mouse strain may be useful in studies of diseases related to GABA (gamma-aminobutyric acid)-releasing neurons.

When crossed to a strain expressing Cre recombinase in GABAergic neurons (see Stock No. [017535](#)), these mice exhibit behaviors common to those seen in Rett Syndrome and Autism Spectrum Disorders.

Development

Control Suggestions

Selected References

Genetics

Mecp2^{tm1Bird}

⊖ 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:[Mecp2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, females homozygous for this X-linked mutation can be bred with males hemizygous for this X-linked mutation.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129P2-*Mecp2*^{tm1Bird}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006847 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](#)

⊖ Pricing & Availability



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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	X linked -Heterozygous females and Wild-type males for Mecp2<tm1Bird>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129P2-Mecp2<tm1Bird>/J Frozen Embryo	\$2595.00
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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.

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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

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