B6.129P2-*Mecp2* ^{tm1Bird} /J

Stock No: **007177** | Mecp2 ^{lox}

Congenic, Targeted Mutation

Estimated to begin distribution on Mar 29, 2021

PRE-ORDER NOW

developmental studies of Rett syndrome.

Donating Investigator

Adrian Bird, University of Edinburgh

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

N7F2
(2020-04-13 00:00:00)

Mecp2^{tm1Bird}

Allele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Mecp2

Gene Name

methyl CpG binding protein 2

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$255.00 Domestic price for female 4-week

VIEW PRICE LIST

Details

Detailed Description

These mice possess two functional *loxP* sites flanking exons 3-4 of the targeted gene on the X chromosome (the donating investigator reports that the middle *loxP* site is non-functional). Homozygous females and hemizygous males are viable and fertile. Northern blot analysis showed the expected mature transcript from the $Mecp2^{lox}$ locus as well as a transcript in which the beta-globin intron was unspliced. 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 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.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Control Suggestions

Selected References

Genetics

Mecp2^{tm1Bird}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR:Mecp2
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

Mutant mice were bred to C57BL/6J mice to generate this congenic strain. When maintaining the live congenic colony, females homozygous for this X-linked mutation can be bred with males hemizygous for this X-linked mutation.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Hemizygote

Citation
When using the Mecp2^{lox} mouse strain in a publication, please cite the originating article(s) and include JAX stock #007177 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

AX10 (Standard)

Pricing & Availability

Available for Pre-order

Estimated to begin distribution on Mar 29, 2021

Domestic **Internatio**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
4 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00
5 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
5 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00
6 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
6 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00
7 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
7 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00
8 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
8 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00
9 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
9 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00
10 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
10 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00
11 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
11 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00
12 weeks	Female	Homozygous for Mecp2^{tm1Bird}	$255.00
12 weeks	Male	Hemizygous for Mecp2^{tm1Bird}	$255.00

RELATED PRODUCTS AND SERVICES

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

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs

that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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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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Related Strains

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TOMORROW'S CURES