

B6.129P2(Cg)-Mecp2^{tm4.1Bird}/J

Stock No: 026762 | Mecp2T158M

 Congenic, 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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syndrome.

Donating Investigator

Adrian Bird, University of Edinburgh

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GENETIC OVERVIEW

Genetic Background

Generation

Mecp2^{tm4.1Bird}

Alele Type

Targeted (Reporter, Null/Knockout, Humanized sequence)

Gene Symbol

Mecp2

Gene Name

methyl CpG binding protein 2

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

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

The *Mecp2* gene is located on the X-chromosome, and exhibits increased expression in the central nervous system during neuronal maturation. Mutations in the *MECP2* gene can cause Rett Syndrome, an autism-spectrum neurodevelopmental disorder. These mice express the amino acid mutation T158M in exon 4. Under control of the endogenous *Mecp2* promoter, these mice express the MeCP2-EGFP fusion protein in neurons throughout the brain at levels lower than EGFP expression observed in MECP2-EGFP mice (Stock No. [014610](#)). Hemizygous males are viable but not fertile. Males can become phenotypic from 4 weeks of age and have a average survival of 12 weeks. The cause of infertility of hemizygous males has not been determined. Heterozygous females are viable, fertile, and develop a mild progressive phenotype from 4 months of age.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Mecp2^{tm4.1Bird}

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

Probe:[Mecp2 Probe](#)

Standard PCR:[Mecp2alternate1](#)

Sanger sequencing:[Mecp2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous females may be bred with wildtype males from the colony. Hemizygous males are viable but not fertile. The cause of infertility of hemizygous males has not been determined. The Donating Investigator recommends breeding heterozygous females with wildtype males.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Wild-type

Citation

When using the Mecp2T158M mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #026762 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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Cryo
Recovery

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

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	X linked- Females Heterozygous for Mecp2<tm4.1Bird> and wildtype males	\$2,854.50

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Terms Of Use

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[General Terms and Conditions](#)

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LICENSING INFORMATION

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