

STOCK *Mecp2*^{tm3.1Bird} /J

Stock No: 014610

 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^{tm3.1Bird}

Allele Type

Gene Symbol

Gene Name

Targeted (Reporter)

Mecp2

methyl CpG binding protein 2

VIEW GENETICS

RESEARCH APPLICATIONS

Mouse/Human Gene Homologs

Neurobiology Research

Research Tools

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

A targeted mutation was designed to insert an enhanced green fluorescent protein sequence (EGFP) sequence in the 3' UTR of the methyl CpG binding protein 2 (*Mecp2*) gene. Homozygous females and male carriers are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. *Mecp2* 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. Under control of the endogenous *Mecp2* promoter, these mice express EGFP in neurons throughout the brain at levels consistent with endogenous MECP2 expression in wildtype mice from the colony. These mice may be useful for visualizing MECP2 expressing neuronal cells.

Development

Expression Data

Control Suggestions

Genetics

Mecp2^{tm3.1Bird}

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

Standard PCR:[Mecp2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous females may be bred to hemizygous males. Note: Mutation is X-linked.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Mecp2^{tm3.1Bird}/J* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014610 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



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 - Heterozygous females or Wild-type males for <i>Mecp2<tm3.1Bird></i>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

STOCK Mecp2<tm3.1Bird>/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.

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.

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[General Terms and Conditions](#)

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

All Related Strains



B6.129(Cg)-Gt(ROSA)26Sor^{tm4}(ACTB-tdTomato,-EGFP)...

Stock No: 007676 | mT/mG , mTmG

Related By: [GFP](#)



B6.129P2(C)-Mecp2^{tm1.1Bird}/J

Stock No: 003890 | Mecp2⁻

Related By: [Mecp2](#)



B6.129P2(Cg)-Cx3cr1^{tm1Litt}/J

Stock No: 005582 | CX₃CR-1^{GFP}

Related By: [GFP](#)





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Yes No