

B6.129P2(C)-*Mecp2*^{tm6.1Bird}/J

Stock No: 026848 | MeCP2-GFP-R133C

 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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2 gene, and in-frame fused EGFP downstream of the exon 4 coding sequence. This strain may be useful for in studies of Rett syndrome.

Donating Investigator

Adrian Bird, University of Edinburgh

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GENETIC OVERVIEW

Genetic Background

Generation

Mecp2^{tm6.1Bird}

Allele 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 R133C 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 likely fertile. Fertility of hemizygous males has not been determined. Phenotypic onset has been observed from 7 weeks and median lifespan was around 42 weeks of age for hemizygous males. Heterozygous females are viable and fertile, displaying a mild phenotype at 46 weeks of age.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Mecp2^{tm6.1Bird}

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:[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 likely fertile. Fertility of hemizygous males has not been determined. The Donating Investigator recommends breeding heterozygous females with wildtype males.

[Additional Breeding and Husbandry Support](#)

Citation

When using the MeCP2-GFP-R133C mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #026848 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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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	X linked, Heterozygous females and wildtype males for Mecp2<tm6.1Bird>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129P2(C)-Mecp2<tm6.1Bird>/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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Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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