

B6;129S1-Xrcc2^{tm1Pmc}/Kvm

Stock No: **018146** | Xrcc2 KO

 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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suitable for use in studies of DNA repair in neural development.

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GENETIC OVERVIEW

Genetic Background

Generation

Xrcc2^{tm1Pmc}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Xrcc2

Gene Name

X-ray repair complementing defective repair in Chinese hamster cells 2

VIEW GENETICS

RESEARCH APPLICATIONS

Apoptosis Research

Cell Biology 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

XRCC2 is a member of the RecA/RAD51-related protein family associated with repair of double stranded breaks using homologous recombination. In this strain, the ?Cre-lox? system is used to remove exon 3, which contains 75% of the open reading frame (ORF). Most homozygotes die during early embryogenesis (E9-E10) due to apoptosis of proliferating cells. embryonic fibroblasts (MEFs) derived from homozygous embryos are hypersensitive to DNA and exhibit spontaneous chromosomal rearrangements. This mutant mouse strain may be useful in studies of DNA repair in neural development.

Development

Selected References

Genetics

$Xrcc2^{tm1Pmc}$

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

Separated PCR:[Xrcc2](#)

Separated MCA:[Xrcc2MCA](#)

[Genotyping resources and troubleshooting](#)

Citation

When using the Xrcc2 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #018146 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	Heterozygous or wildtype for Xrcc2<tm2.1Pmc>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129S1-Xrcc2<tm1Pmc>/Kvm 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

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

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