

STOCK *Fkbp4*^{tm1Dvds} /J

Stock No: 017990

 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

Sudhansu Dey, Cincinnati Children's Hospital

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GENETIC OVERVIEW

Genetic Background

Generation

Fkbp4^{tm1Dvds}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Fkbp4

FK506 binding protein 4

VIEW GENETICS

RESEARCH APPLICATIONS

Reproductive Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

Details

Detailed Description

FKBP4 (or FKBP52) is a member of the immunophilin protein family and is known to play a role in protein folding and trafficking. FKBP4 functions as a co-chaperone that binds to HSP90 in steroid receptor complexes. In this strain the targeted allele lacks the entire *Fkbp4* coding region. Homozygous mice are viable, but are not fertile. Male mice exhibit mild to severe hypospadias, ambiguous external genitalia, malformed seminal vesicles and a small-to-absent anterior prostate gland. Spermatozoa have reduced motility and fertilization efficiency. The donating investigator reports that homozygous females are infertile due to implantation failure. This strain may be useful for studying androgen, progesterone, and glucocorticoid receptor signaling pathways and reproduction.

Development

Control Suggestions

Selected References

Genetics

Fkbp4^{tm1Dvds}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Separated MCA:[Fkbp4](#)

Separated PCR:[Fkbp4](#)

Standard PCR:[Generic Neo](#)

Probe:[Generic Neo](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes. Heterozygote x heterozygote matings produce 50% fewer homozygotes than the expected Mendelian ratio. Mice homozygous for the mutation are infertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Fkbp4^{tm1Dvds}/J* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017990 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 <i>Fkbp4<tm1Dvds></i>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK <i>Fkbp4<tm1Dvds>/J</i> Frozen Embryo	\$2595.00
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LICENSING INFORMATION

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Email: TechTran@jax.org

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