

B6;129S7-Acvr2a^{tm1Zuk}/J

Stock No: **003277** | ActRcll 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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Donating Investigator

Dr. T. R. Kumar, University of Kansas

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GENETIC OVERVIEW

Genetic Background

Generation

Acvr2a^{tm1Zuk}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Acvr2a

Gene Name

activin receptor IIA

VIEW GENETICS

RESEARCH APPLICATIONS

Reproductive 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

Activin receptor IIA deficient mice are viable. Homozygous males are fertile, while homozygous females are infertile. Follicle-stimulating hormone levels are reduced in mutant mice. Some skeletal and facial abnormalities, including micrognathia, cleft palate and defects in Meckel's cartilage are observed. These defects are reminiscent of Pierre-Robin syndrome in humans. Severe defects occasionally result in the perinatal or *in utero* death of a small number of homozygous mutant embryos.

Development

Control Suggestions

Selected References

Genetics

$Acvr2a^{tm1Zuk}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Separated PCR:[Acvr2aalternate3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

The strain originated on a B6,129 background and is currently on the same background. The investigator maintains the strain by mating homozygous males with heterozygous females. Homozygous males exhibit delayed fertility. Per Dr. Matzuk it is delayed by only a few weeks and there is no breeding problem after that. Expected coat color from breeding:Black

[Additional Breeding and Husbandry Support](#)

Citation

When using the ActRcll KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003277 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 Wild-type for Acvr2a	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129S7- Acvr2a /J Frozen Embryos	\$2595.00
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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.

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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

ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

[Related Strains](#)

All

By Allele

By Gene

By Collection



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