

B6CBACa A^{w-J} /A-Eda^{Ta} /J-XO

Stock No: **000314**

 Spontaneous Mutation

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Females of this strain have only one X chromosome, and may be useful in studies of Turner Syndrome in humans.

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GENETIC OVERVIEW

Genetic Background

Generation

Eda^{Ta}

Alele Type

Gene Symbol

Gene Name

Spontaneous

Eda

ectodysplasin-A

VIEW GENETICS

RESEARCH APPLICATIONS

Reproductive Biology Research
Dermatology Research
Developmental Biology Research
Sensorineural Research
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

XO or monosomy X mice lack a second sex chromosome. The condition is inherited as an X-linked dominant trait with male lethality. XO mice exhibit some degree of growth retardation, high frequency hearing loss, reduced thyroid activity, reduced body temperature and some behavioral abnormalities. Unlike Turner Syndrome in humans, XO females are fertile. The two-step mating system for this strain (described under Mating System) incorporates the X-linked coat color marker tabby so that mice can be identified by a combination of coat color and sex. This strain may be useful for studies of Turner Syndrome or X-linked recessive alleles.

Development

Control Suggestions

Selected References

Genetics

Eda^{Ta}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support



Genotyping Protocols

Separated PCR:[A A A](#)

Separated PCR:[A A A Alternate2](#)

[Genotyping resources and troubleshooting](#)

Mating System

Outcross-Intercross

TJL Breeding Scheme: hemizygote x F1 then (X/O) wild type sibling x hemizygote

TJL Breeding Summary: genotypes of breeders are Eda^{Ta}/O x $B6CBBCaF1A^{w-J}/A$ in the first generation then $+/O$ x Eda^{Ta}/Y in the second generation. Viable offspring produced from the first generation breeder pair are $Eda^{Ta}/+$ females, $+/O$ females, and Eda^{Ta}/Y males.

Viable offspring produced from the second generation breeder pair are $Eda^{Ta}/+$ females, normal $+/Y$ males, and Eda^{Ta}/O females

Appearance

tabby (yellow coat, no hair on ears and tail, bald patch behind ears, no guard hairs; tails may show epidermal ulcers)

Related Genotype: A/A Eda^{Ta}/O females or $A^{w-J}/A?$ Eda^{Ta}/O females or A/A Eda^{Ta}/Y males or $A^{w-J}/A?$ Eda^{Ta}/Y males

agouti with mosaic striped coat

Related Genotype: A/A $Eda^{Ta}/+$ females

white-bellied agouti with mosaic striped coat

Related Genotype: $A^{w-J}/A?$ $Eda^{Ta}/+$ females

agouti, no striping in coat

Related Genotype: A/A $+/+$ or A/A $+/O$ females or A/A $+/Y$

white-bellied agouti, no striping in coat

Related Genotype: $A^{w-J}/A?$ $+/+$ or $A^{w-J}/A?$ $+/O$ females or $A^{w-J}/A?$ $+/Y$

Citation

When using the $B6CBACa$ $A^{w-J}/A-Eda^{Ta}/J$ -XO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000314 in your Materials and Methods section.

STRAIN INTEREST REGISTRATION

Please fill out the form below to indicate your interest in purchasing this JAX®Mice strain.

This information helps us manage the colony build and better meet the broad needs of the research community.

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Last Name

Institution

Phone Number

Email

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Number of Mice

Frequency

Product

Comment

Frequency...

Products...

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LICENSING INFORMATION

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