

C57BL/6-Tg(Edn2-icre)9Jako/J

Stock No: **026975** | edn2-iCre9

 Coisogenic, Transgenic

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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expression in the epidermis, ovary (capsule, stromal cells, corpora lutea, granulosa cells), testicular interstitium, coagulation gland (anterior prostate), and preputial gland.

Donating Investigator

CheMyong Ko, University of Illinois at Urbana-Champaign

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Edn2-icre)9Jako

Allele Type

Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS

Reproductive Biology Research
Research Tools

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 *Edn2* gene encodes a member of the vasoconstrictive peptides and growth-promoting endothelin protein family, and which is predominantly expressed in the intestines, ovary, and uterus. These transgenic mice express iCre recombinase under the control of the mouse endothelin 2 promoter. When crossed with a strain containing *loxP* site flanked sequence of interest, Cre-mediated recombination results in deletion of the floxed sequence in the cre expressing tissues and in the ovary after gonadotropin stimulation. After treatment with human chorionic gonadotropin (hCG) to induce ovulation, Cre recombinase expression is detected in the ovary 11 and 12 hours after injection. iCre recombinase expression mimics the endogenous *Edn2* gene expression pattern. Cre recombinase activity is also detected in developing dermis of the embryo starting at E15.5 and persisting through puberty.

When bred to a reporter strain, the resulting mice exhibited strong Cre recombinase activity in the epidermis, ovary (capsule, stromal cells, corpora lutea, granulosa cells), testicular interstitium, coagulation gland (anterior prostate), preputial gland. Punctate Cre activity is detected in the oviduct epithelium, uterine smooth muscle, olfactory bulb, cerebral and cerebellar neurons, anterior and intermediate pituitary, cornea and retina of the eye, cardiac epicardium, scattered pneumocytes of the respiratory epithelium, salivary glands, liver parenchyma, pancreas, renal cortex corpuscles and tubules, adrenal, intestinal villi and tubular glands, and the detrusor muscle of the bladder. Mice that are homozygous for the transgene are viable and fertile.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(*Edn2-icre*)9Jako

⊖ 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: [Tg\(Edn2-icre\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Hemizygote x Hemizygote

Citation

When using the edn2-iCre9 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #026975 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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DomesticInternational

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Please inquire	\$2,854.50

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