

**B6.129S6-*Tagln*<sup>tm2(cre)Yec</sup> /J**Stock No: **006878** | SM22 $\alpha$ -creKI **Congenic, 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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Cre recombinase activity in adult smooth muscle cells and cardiac myocytes. These mice may be useful for Cre-lox technology applications in studying smooth muscle and cardiac gene function, as well as cardiovascular disease.

### Donating Investigator

Yuqing E Chen, University of Michigan, Medical School

[READ MORE +](#)

## GENETIC OVERVIEW

**Genetic Background**

000664 C57BL/6J

**Generation***Tagln*<sup>tm2(cre)Yec</sup>**Allele Type**

Targeted (Recombinase-expressing)

**Gene Symbol***Tagln***Gene Name**

transgelin

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Research Tools

Cardiovascular 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

Mice homozygous for this SM22alpha-CreKI allele are viable and fertile. These mice have a Cre-recombinase gene inserted into the endogenous transgelin (SM22alpha) locus. The donating investigator reports that this mutation results in a loss of function of the targeted gene. Cre recombinase activity is shown in adult smooth muscle cells (such as arteries, veins, and visceral organs) and cardiac myocytes, but activity is not observed in the same embryonic tissues. It has been the experience of The Jackson Laboratory that optimal breeding is achieved by mating heterozygous females to homozygous males as female mortality post gestation has been noted in our colony. These SM22alpha-CreKI mice may be useful for Cre-lox technology applications in studying smooth muscle and cardiac gene function, as well as cardiovascular disease.

#### + Development

#### + Expression Data

#### + Control Suggestions

#### + Selected References

### – Genetics

#### + *Tagln*<sup>tm2(cre)Yec</sup>

### – Disease/Phenotype

#### + Disease Terms

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- 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:[TagIn](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintaining a live colony, it has been the experience of The Jackson Laboratory that optimal breeding is achieved by mating heterozygous females to homozygous males. Female mortality post gestation has been noted in our colony.

[Additional Breeding and Husbandry Support](#)

#### Mating System

Heterozygote x Homozygote

#### Citation

When using the SM22 $\alpha$ -creKI mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006878 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](#)*

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## [- 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

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## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous for TagIn<tm2(cre)Yec>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.129S6-TagIn<tm2(cre)Yec>/J Frozen Embryo	\$2595.00
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## PAYMENT TERMS AND CONDITIONS

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.

## THE JACKSON LABORATORY'S GENOTYPE PROMISE

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.

## Terms Of Use

### TERMS OF USE

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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 no-fee JAX Leap License prior to shipping.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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