The Jackson Laboratory

B6.129-*Tac2* $^{tm1.1(cre)Qima}$/J

Stock No: **018938**

Congenic, Targeted Mutation

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

PLACE ORDER

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useful to generate conditional mutations for studying gain or loss of function and/or mapping in dorsal root ganglia, the dorsal horn of the spinal cord, and parts of the brain.

Donating Investigator

Qiufu Ma, Dana-Farber Cancer Institute

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GENETIC OVERVIEW

Genetic Background	Generation

Tac2$^{tm1.1(cre)Qima}$

Allele Type	Gene Symbol	Gene Name
Targeted (Recombinase-expressing)	*Tac2*	tachykinin 2

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

The Tac2-Cre knock-in/knockout allele has a Cre recombinase gene inserted into the third codon of the tachykinin 2 (*Tac2*) gene, abolishing *Tac2* gene function and placing Cre expression under the control of the *Tac2* promoter/enhancer elements. *Tac2* encodes neurokinin B (NKB), a neuromodulator that plays a role in pain modulation. These Tac2-cre mice exhibit normal responses to pain or itch-related stimuli. Homozygous mice are viable and fertile, but breed poorly (can take four months to get pregnant with 2-3 pups per litter). The donating investigator reports Cre recombinase activity is observed in neurons in the dorsal root ganglia, the dorsal horn of the spinal cord, and many parts of the brain including the olfactory bulb, cerebral cortex, amygdala, hippocampus, habenula, hypothalamus, and cerebellum. When bred with mice containing *loxP*-flanked sequences, Cre-mediated recombination will result in deletion of the floxed sequences in the *Tac2*-expressing cells in the offspring.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tac2$^{tm1.1(cre)Qima}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Separated PCR:Tac2
Separated MCA:Tac2
Genotyping resources and troubleshooting

Breeding Considerations

At The Jackson Laboratory Repository, homozygotes are viable and fertile, but breed poorly (can take four months to get pregnant with 2-3 pups per litter). When maintaining our live colony, heterozygous mice are bred together.

Additional Breeding and Husbandry Support

Citation
When using the B6.129-*Tac2*$^{tm1.1(cre)Qima}$/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #018938 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 Internatic

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING		
SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Tac2<tm1.1(cre)Qima>	$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6.129-Tac2<tm1.1(cre)Qima>/J Frozen Embryo	$2595.00

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

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

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Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

Choose other country or region

Did you find what you were looking for?

Yes No