



STOCK *Corttm(cre)Zjh* / J

Stock No: 010910

Targeted Mutation



CRYO RECOVERY

PLACE ORDER

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

Overview

Cst-T2A-Cre (Cort-T2A-Cre) mice have Cre recombinase expression directed to *Cort*-expressing cells (CST positive neurons) by the endogenous promoter/enhancer elements of the cortistatin locus.

Donating Investigator

Z. Josh Huang, Cold Spring Harbor Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Cort^{tm1(cre)Zjh}

Allele Type

Gene Symbol

Gene Name

Targeted (Recombinase-expressing)

Cort

cortistatin

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

The Cst-T2A-Cre allele (also called Cort-T2A-Cre or Cst-2A-Cre) harbors a T2A oligopeptide that mediates ribosomal skipping (foot-and-mouth disease virus 2A from the insect *Thosea asigna* virus) and Cre recombinase in the 3' UTR of the cortistatin locus (*Cort*). As such, *cre* expression is directed by the endogenous *Cort* promoter/enhancer elements. When Cst-T2A-Cre mice are bred with mice containing *loxP*-flanked sequences, Cre-mediated recombination will result in deletion of the floxed sequences in the *Cort*-expressing cells (CST positive neurons) of the offspring. Cort expression from the Cst-T2A-Cre allele has not been evaluated. Additional phenotype information described below.

In 2010, the donating investigator reported Cre recombinase activity is specific and efficient (largely recapitulates the endogenous *Cort* expression pattern with highly efficient recombination). They report Cre recombinase activity is observed in some GABAergic interneurons, and did not examine *cre* expression in the intestine or tissues other than brain. Cort expression from the Cst-T2A-Cre allele was not evaluated. They also reported that homozygous mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

For characterization information, see images at the Allen Institute for Brain Science website ([Cort-T2A-Cre images](#)).

If the recombinase activity pattern of this allele is further characterized by the Genetic Resource Science group at The Jackson Laboratory, such findings will be reported on the Mouse Genome Informatics (MGI) Allele Detail entry ([Cort^{tm1\(cre\)Zjh}](#)). This same information would also be found searching the [MGI Recombinase Activity](#) database.

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[+ Control Suggestions](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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C H A T O F F L I N E

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

Probe: [Gt\(rosa\)26sor^{Tm1Sor}Probe](#)

Standard PCR: [Cort^{tm1\(cre\)Zjh}](#)

Standard PCR: [Cort^{tm1\(cre\)Zjh}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK Cort^{tm1(cre)Zjh}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010910 in your Materials and Methods section.

[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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous for Cort<tm1(cre)Zjh>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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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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