

FVB;129P2-*Met*^{tm1Sst}/J
Stock No: 016974 | c-met^{fl}

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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autism.

Donating Investigator

Snorri S. Thorgeirsson, NATIONAL INSTITUTES OF HEALTH

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GENETIC OVERVIEW

Genetic Background Generation

Met^{tm1Sst}

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	<i>Met</i>	met proto-oncogene

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research
Neurobiology Research
Research Tools
Cancer 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

These *c-met^{fl/fl}* floxed mutant mice possess *loxP* sites flanking exon 16 of the met proto-oncogene (*Met*) sequence. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. MET is a tyrosine kinase receptor, expressed in a wide variety of adult and embryonic tissues, which regulates mitogenesis, motogenesis, brain development, and dendrite and spine morphogenesis. MET, along with its ligand HGF (hepatocyte growth factor), has been implicated in diseases such as autism spectrum disorders (ASD), schizophrenia, and tumorigenesis. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 16, encoding a critical ATP-binding site, deleted in *cre*-expressing tissues. This deletion inactivates the intracellular tyrosine kinase domain of MET which is essential for MET function.

For example, when crossed to a strain expressing Cre recombinase in the hepatocytes (see Stock No. [003574](#) for example), the resulting mutant mouse strain exhibits disruption of hepatocyte survival and regeneration.

When crossed to a strain expressing Cre recombinase in cortical neurons, the resulting mutant mouse strain exhibits disrupted synaptic development and neuronal hyperconnectivity as seen in ASD.

This strain may be useful for studying neuronal growth and development in neuropsychiatric diseases such as schizophrenia and autism.

Development

Control Suggestions

Selected References

Genetics

Met^{tm1Sst}

– 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:[Met](#)

[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 c-met^{fl} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016974 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



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

Cryorecovery - Domestic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Met<tm1Sst>	\$2,854.50

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