

C57BL/6J-mt^{FVB/NJ}/IbraJ

Stock No: 010810

 Conplastic, Spontaneous Mutation

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

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Donating Investigator

Saleh Ibrahim, University of Luebeck

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GENETIC OVERVIEW

Genetic Background

Generation

mt-Atp8^{m1}

Alele Type

Spontaneous

Gene Symbol

mt-Atp8

Gene Name

mitochondrially encoded ATP synthase 8

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology 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

This strain is one of several conplastic strains created to investigate mitochondrial DNA variations on complex traits. The FVB/NJ strain carries an aspartic acid to tyrosine substitution in the mitochondrial *mt-Atp8* gene. In behavioral testing, this conplastic strain exhibits increased anxiety as compared to controls. Mice tested in the elevated plus maze spend less time and walk shorter distances in the open arms section of the maze.

Development

Control Suggestions

Selected References

Genetics

mt-Atp8^{mt1}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Pyrosequencing:[mt Atp8](#)

Sanger sequencing:[mt](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are mated brother x sister or carrier females mated to C57BL/6J males.

[Additional Breeding and Husbandry Support](#)

Citation

When using the C57BL/6J-mt^{FVB/NJ}/IbraJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010810 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 International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Homozygous for mt<FVB/NJ>, 1 pair minimum	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C57BL/6J-mt<FVB/NJ>/IbraJ Frozen Embryos	\$2595.00
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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.

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LICENSING INFORMATION

Phone: 207-288-6470

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