C57BL/6J-Tg(Th-SNCA)5Eric/J

Stock No: **008245**

Coisogenic, Transgenic

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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synaptic plasticity in conjunction with Stock No. 008239.

Donating Investigator

Eric Richfield, Rutger's University (EOHSI/UMDNJ)

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GENETIC OVERVIEW

Genetic Background **Generation**

Tg(Th-SNCA)5Eric

Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

These hwα-SYN-5 mice express wildtype human alpha-synuclein (hα-SYN) under the control of the rat tyrosine hydroxylase promoter. Expression of hα-SYN is detected in cell bodies, axons, and terminals of the nigrostriatal system (mRNA expression in midbrain, eye, and adrenal gland, with high levels of protein expression in the cell bodies of dopaminergic neurons in the midbrain and striatum). Hemizygous mice exhibit several Parkinson's disease-related characteristics including increased density of the dopamine transporter, impairments of the ubiquitin-proteasome system, and age-related progressive loss of locomotor activity and substantia nigra pars compacta dopaminergic neurons. The Parkinson's disease-related phenotype of these hwα-SYN-5 mice is intermediate between that of the C57BL/6J wild-type controls and the severely affected hm^2 α-SYN-39 strain (see Stock No. 008239). As such, these hwα-SYN-5 transgenic mice may be useful for studying Parkinson's disease, Lewy bodies, neurodegeneration, and synaptic plasticity in conjunction with Stock No. 008239.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Th-SNCA)5Eric

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR:Tg(Th-SNCA)
Standard PCR:Tg(Th-SNCA)
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, hemizygotes are bred to wildtype siblings or to inbred C57BL/6J mice.

Additional Breeding and Husbandry Support

Citation
When using the C57BL/6J-Tg(Th-SNCA)5Eric/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #008245 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	Hemizygous or Non carrier for Tg(Th-SNCA)5Eric	$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	C57BL/6J-Tg(Th-SNCA)5Eric/J	$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

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license prior to shipping.

LICENSING INFORMATION

Phone: 207-288-6470
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