B6(Cg)-*Sgta*$^{tm1.1Drmcr}$/J

Stock No: **029290** | Sgta

Congenic, Targeted Mutation

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

PLACE ORDER

processes (cell cycle regulation, apoptosis and others)

Donating Investigator

Wayne Tilley, The University of Adelaide

READ MORE +

GENETIC OVERVIEW

Genetic Background	Generation

Sgta$^{tm1.1Drmcr}$

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	*Sgta*	small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research
Reproductive Biology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Sgta$^{-/-}$ mice lack exons 4-5 of the small glutamine rich tetratricopeptide repeat containing alpha (*Sgta*) gene. SGTA is a co-chaperone and regulator of androgen and growth hormone receptor signaling. It has been shown to be associated with cell cycle and apoptosis, viral assembly and release, hormone signaling, intracellular compartmentalization, neuronal synaptic transmission and the post-translational transport and modification of proteins. SGTA has also been linked to many cancers including prostate, ovary, liver and oesophagus cancer, as well as hormone-related polycystic ovary syndrome and amyloid-related Alzheimer's and prion diseases. Homozygotes are viable but sub-fertile, having small litters and higher neonatal death rates. Pups are more susceptible to stillbirth, and are more prone to neonatal death between P2-P21. Less mice survive to weaning. Homozygotes are smaller than heterozygotes. There are very subtle effects of SGTA deficiency on the male reproductive system, including testis descent and organ size.

Development

Control Suggestions

Selected References

Genetics

Sgta$^{tm1.1Drmcr}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Separated PCR:Sgta
Probe:Generic Cre Probe
Probe:Generic FLP
Standard PCR:Generic Neo
Probe:Generic Neo
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together. Homozygotes are viable but sub-fertile.

Additional Breeding and Husbandry Support

Mating System
Wild-type x Heterozygote
Heterozygote x Wild-type

Citation
When using the Sgta^{-} mouse strain in a publication, please cite the originating article(s) and include JAX stock #029290 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 Internatio

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING		
SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Sgta<tm1.1Drmcr>	$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6(Cg)-Sgta<tm1.1Drmcr>/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

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General Terms and Conditions

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LICENSING INFORMATION

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Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

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Did you find what you were looking for?

Yes No