The Jackson Laboratory

NOD.B6-*Gt(ROSA)26Sor*$^{tm1(HBEGF)Awai}$/DvsJ

Stock No: **016603** | NOD.ROSA-DTR

Congenic, Targeted Mutation

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

PLACE ORDER

Email Download PDF Help

toxin administration.

Donating Investigator

Dr. David Serreze, The Jackson Laboratory

Ari Waisman, Johannes Gutenberg University of Mainz

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GENETIC OVERVIEW

Genetic Background	Generation

Gt(ROSA)26Sor$^{tm1(HBEGF)Awai}$

Allele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), Inserted expressed sequence)	*Gt(ROSA)26Sor*	gene trap ROSA 26, Philippe Soriano

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Immunology, Inflammation and Autoimmunity Research
Diabetes and Obesity Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for this iDTR mutation are viable and fertile. These mice have the simian Diphtheria Toxin Receptor (DTR; from simian *Hbegf*) inserted into the *Gt(ROSA)26Sor* (ROSA26) locus. Widespread expression of DTR is blocked by an upstream *loxP*-flanked STOP sequence. When bred to Cre recombinase-expressing mice, the STOP sequence is deleted in tissues where Cre is present, permitting DTR expression. Cells expressing DTR are rendered susceptible to ablation following Diphtheria toxin administration.

For instance, the role of a particular cell population in T1D development can be determined by injecting Diphtheria toxin to deplete the specific cells in a timely fashion.

For example, when bred to a strain expressing Cre recombinase in dendritic cells (see Stock No. 013233 for example), this mutant mouse strain may be useful for studies involving the immunology of diabetes.

When crossed to a strain expressing Cre recombinase in T-lymphocytes (see Stock No. 008694), this mutant mouse strain may be useful in studies of regulatory T cell ablation.

Development

Expression Data

Selected References

Genetics

Gt(ROSA)26Sor$^{tm1(HBEGF)Awai}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Probe:Gt(rosa)26sor Probe
Genotyping resources and troubleshooting

Breeding Considerations

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

Additional Breeding and Husbandry Support

Citation

When using the NOD.ROSA-DTR mouse strain in a publication, please cite the originating article(s) and include JAX stock #016603 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	Hemizygous or Non carrier for Gt(ROSA)26Sor<tm1(HBEGF)Awai>	$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	NOD.B6-Gt(ROSA)26Sor<tm1(HBEGF)Awai>/DvsJ Frozen Embryos	$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

LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

Leading the search for

TOMORROW'S CURES