NOD.Cg-PrkdcScid/DvsJ

Stock No: 006609 | NOD.scid, HLA-A2

Congenic, Spontaneous Mutation, Transgenic

CRYO RECOVERY

PLACE ORDER

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

Also Known As: NOD.scid, HLA-A2, NOD-scid.HLA-A2.1
These transgenic SCID mice express the human histocompatibility complex (MHC) class I HLA-A2.1 allele.

Donating Investigator
Dr. David Serreze, The Jackson Laboratory

GENETIC OVERVIEW

Gene Symbol | Gene Name
------------|----------------------------------
Prkdc | protein kinase, DNA activated, catalytic polypeptide

Mcph1Tg(HLA-A2.1)1Enge

RESEARCH APPLICATIONS

Research Tools
Internal/Organ Research
Immunology, Inflammation and Autoimmunity Research
Virology Research
Diabetes and Obesity Research
Although transgenic NOD mice develop diabetes significantly earlier than do NOD/ShiLtDVs (NOD) mice, this transgenic strain harbors the \( Prkdc^{scid} \) mutation (characterized by an absence of functional T cells and B cells) and therefore does not become diabetic. In adoptive transfer experiments splenocytes from NOD.HLA-A2.1 mice did not induce T1D in these NOD-\( scid \).HLA-A2.1 transgenic mice at a significantly faster rate than when transferred to NOD-\( scid \) recipients. This strain is useful for adoptive transfer experiments and as a source of insulitis free pancreatic islets.
Genotyping Protocols
End Point Analysis: Prkdc\textsuperscript{scid}
QPCR: Tg(HLA-A2.1)1Enge-qPCR
Genotyping resources and troubleshooting

Citation
When using the NOD.scid, HLA-A2 mouse strain in a publication, please cite the originating article(s) and include JAX stock #006609 in your Materials and Methods section.

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.

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<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Mcph1&lt;Tg(HLA-A2.1)1Enge&gt; and homozygous for Prkdc&lt;scid&gt;</td>
<td>$2,854.50</td>
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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryo recovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

| Frozen Mouse Embryo | NOD.Cg-Mcph1<Tg(HLA-A2.1)1Enge> Prkdc<scid>/DvsJ Frozen Embryo | $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
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By Allele

By Gene

By Collection

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