NOD.Cg-Tg(HLA-DRA*0101, HLA-DRB1*0101)

Stock No: 012479

Congenic, Spontaneous Mutation, Targeted Mutation, Transgenic

PL A C E O R D E R

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

These mutant mice combine the features of the NOD/ShiLtJ background, the severe combined immune deficiency mutation (scid), IL2 receptor gamma chain deficiency and a human/mouse chimeric MHC Class II transgene (Tg(HLA-DRB1*01)1Dmz). This mutant mouse strain may be useful for xenotransplantation and vaccine development.

Donating Investigator

Gloria Koo, Hospital for Special Surgery
Richard O'Reilly, Memorial Sloan Kettering Cancer Center
**Tg(HLA-DRA*0101,HLA-DRB1*0101)1Dmz**

**Allele Type**
Transgenic (Inserted expressed sequence, Humanized sequence)

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**Prkdc<sup>scid</sup>**

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<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Prkdc</td>
<td>protein kinase, DNA activated, catalytic polypeptide</td>
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**Il2rg<sup>tm1Wjl</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Il2rg</td>
<td>interleukin 2 receptor, gamma chain</td>
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**RESEARCH APPLICATIONS**

Virology Research  
Cancer Research  
Immunology, Inflammation and Autoimmunity Research  
Research Tools  
Internal/Organ Research

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**BASE PRICE**

Starting at:  
$2,854.50 Domestic price Cryo Recovery

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**Details**

**Detailed Description**

Mice that are homozygous for the targeted transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These mutant mice combine the features of the NOD/ShiLtJ background, the severe combined immune deficiency mutation (scid), IL2 receptor gamma chain deficiency and a human/mouse chimeric MHC Class II transgene (Tg(HLA-DRB1*0101)1Dmz). This mutant mouse strain is expected to be useful for xenotransplantation and vaccine development.

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**Development**

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**Expression Data**

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**Control Suggestions**
Genetics

Tg(HLA-DRA*0101,HLA-DRB1*0101)1Dmz

Prkdc<sup>scid</sup>

Il2rg<sup>tm1Wjl</sup>

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Standard PCR: Tg(HLA-DRA)
Standard PCR: Tg(HLA-DRB1*0101)1Dmz
Probe: Il2rg-PROBE
End Point Analysis: Prkdc End Point
QPCR: Tg(HLA-DRA*0101)-qPCR
QPCR: Tg(HLA-DRA*0101)-qPCR
QPCR: Tg(HLA-DRB1)Dmz-qPCR
QPCR: Tg(HLA-DRB1)Dmz-qPCR

Breeding Considerations
While maintaining a live colony, these mice are bred as homozygotes for all three alleles. SPF (specific pathogen-free) conditions are recommended.

Additional Breeding and Husbandry Support

Citation
When using the NOD.Cg-Tg(HLA-DRA*0101,HLA-DRB1*0101)1Dmz Prkdc<sup>scid</sup> Il2rg<sup>tm1Wjl</sup>/GckRolyJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #012479 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, <i>G200</i>

Pricing & Availability
Cryo Recovery

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

Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Not-For-Profit & Academic Pricing

<table>
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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Tg(HLA-DRA<em>0101,HLA-DRB1</em>0101)Dmz and Homozygous for Prkdc&lt;scid&gt; Il2rg&lt;tm1Wjl&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

Related Products and Services

| Frozen Mouse Embryo   | NOD.Cg-Prkdc<scid> Il2rg<tm1Wjl> Tg(HLA-DRA*0101 HLA-DRB1*01 | $2,595.00 |

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.

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Terms Of Use

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

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains