NOD.Cg-Prkdc<sup>scid</sup> B2m<sup>tm1Unc</sup>/J

Stock No: 002570 | NOD scid 2m<sup>null</sup>

![Congenic Targeted Mutation]

**CRYO RECOVERY**

**PLACE ORDER**

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

**Also Known As: NOD scid 2m<sup>null</sup>**

These mice are doubly homozygous for the severe combined immunodeficiency (scid) mutation and the beta2m null allele. They lack MHC class I, exhibit low NK cell activity, and support markedly elevated levels of human T cell engraftment.

**Donating Investigator**

Dr. Leonard D. Shultz, The Jackson Laboratory

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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>B2m&lt;sup&gt;tm1Unc&lt;/sup&gt;</td>
<td></td>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>B2m</td>
<td>beta-2 microglobulin</td>
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<tr>
<th>Allele Type</th>
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<tr>
<td>Spontaneous</td>
<td>Prkdc</td>
<td>protein kinase, DNA activated, catalytic polypeptide</td>
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**VIEW GENETICS**

Virology Research
Research Tools
Metabolism Research
Internal/Organ Research
Immunology, Inflammation and Autoimmunity Research
Diabetes and Obesity Research
Details

Detailed Description
Mice homozygous for both the B2m<sup>tm1Unc</sup> and Prkdc<sup>scid</sup> (commonly referred to as scid) mutations on the NOD/ShiLtSz background are class I deficient, B and T cell deficient, C-5 deficient (H<sup>C</sup>), and have low NK cells. This strain is an ideal model for xenograft transplantation studies and is an excellent source for insulitis-free, MHC class I-negative islets for transplantation studies.

Development

Control Suggestions

Selected References

Genetics

B2m<sup>tm1Unc</sup>

Prkdc<sup>scid</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: B2m<sup>tm1Unc</sup>
MELT: B2m<sup>tm1Unc</sup>
Genotyping resources and troubleshooting

Breeding Considerations
This strain is a challenging breeder.
This B2m<sup>tm1Unc</sup> strain is maintained by mating homozygous siblings. Only homozygous mice may be ordered. Reproduction is good.
Expected coat color from breeding: Albino
Additional Breeding and Husbandry Support

Appearance
albino
Related Genotype: Tyr<sup>C</sup>/Tyr<sup>C</sup>

Citation
When using the NOD-scid, IL-2R<sup>null</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #002570 in your Materials and Methods section.
Facility Barrier Level Descriptions
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.

<table>
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<tr>
<th>Domestic</th>
<th>International</th>
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Pricing effective for USA, Canada and Mexico shipping destinations

- Frozen Mouse Embryo $2,595.00 per straw or vial

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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All

ByAllele

ByGene

ByCollection

All Related Strains