**NOD.-bg** Tyrkdc1l2/TomJ

Stock No: 026622 | NBSGW

Readily Available

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Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.
Also Known As: NBSGW
These NBSGW mice support engraftment of human hematopoietic stem cells without irradiation. They are suitable for use in applications related to xenotransplantation.

Donating Investigator
James A. Thomson, The University of Wisconsin
<table>
<thead>
<tr>
<th>Spontaneous</th>
<th>Prkdc</th>
<th>protein kinase, DNA activated, catalytic polypeptide</th>
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</thead>
</table>

### Il2rg<sup>Im1Wjl</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Il2rg</td>
<td>interleukin 2 receptor, gamma chain</td>
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</tbody>
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### Tyr<sup>+</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Tyr</td>
<td>tyrosinase</td>
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</tbody>
</table>

### Kit<sup>W-41J</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Kit</td>
<td>KIT proto-oncogene receptor tyrosine kinase</td>
</tr>
</tbody>
</table>

### RESEARCH APPLICATIONS

Mouse/Human Gene Homologs  
Research Tools  
Internal/Organ Research  
Immunology, Inflammation and Autoimmunity Research  
Virology Research  
Dermatology Research  
Reproductive Biology Research  
Cancer Research  

### BASE PRICE

Starting at:

$248.32 Domestic price for male 3-week

### Details

Xenograft NBSGW mice exhibit enhanced human hematopoietic chimerism in peripheral blood, bone marrow, and spleen when compared to non-irradiated engrafted NSG mice, with a level of chimerism similar to that seen in irradiated NSG mice. Chimerism in the peripheral blood of engrafted NBSGW mice was found to be 9-fold higher than chimerism exhibited by engrafted NSG mice. Serial transplantation of human hematopoietic stem cells is also supported with evidence of secondary graft expansion in the secondary recipients. Mice are mottled grey and white coat color due to the homozygous wildtype Tyr (tyrosinase) allele. While establishing the strain, mice that were homozygous for the wildtype Tyr (tyrosinase) allele were selected for further breeding to
eliminate the albino coat color from the colony (allows easier visual phenotyping of Kit^{W-41J} allele).

Mice that are homozygous for all three of these mutant alleles are viable and fertile. These NBSGW mice may be expected to have a similar phenotype as the NSGW41 model (Stock No. 026497).
Dietary Information
LabDiet® 5K52/5K67
Breeding Considerations

This strain is a good breeder.
When maintaining a live colony, these mice can be bred as homozygotes for the Kit\(^{W-41J}\), Prkdc\(^{scid}\), Ii2rg\(^{tm1Wjl}\) alleles (males would be hemizygous for the X-linked Ii2rg\(^{tm1Wjl}\)).

Additional Breeding and Husbandry Support
Mating System
Females homozygous for the Kit\(^{W-41J}\), Prkdc\(^{scid}\), Ii2rg\(^{tm1Wjl}\) alleles x Males homozygous for the Kit\(^{W-41J}\), Prkdc\(^{scid}\), and hemizygous for the Ii2rg\(^{tm1Wjl}\) alleles

Appearance
Mice are mottled grey and white.

Citation
When using the NBSGW mouse strain in a publication, please cite the originating article(s) and include JAX stock #026622 in your Materials and Methods section.

Pricing & Availability
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Domestic Pricing for
Commercial & For-Profit
Not-For-Profit & Academic

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<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<td>3 weeks</td>
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<td>Homozygous for Kit(^{W-41J}) Homozygous for Prkdc(^{scid}) Homozygous for Ii2rg(^{tm1Wjl})</td>
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<td>3 weeks</td>
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<td>5 weeks</td>
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<tr>
<td>5 weeks</td>
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<tr>
<td>6 weeks</td>
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<td>8 weeks</td>
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<td>$307.02</td>
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