B6EiC3Sn-Rb(12.Ts17<sup>16</sup>65Dn)2Cje/CjeDnJ

Stock No: 004850

Chromosome Aberration, Robertsonian, Trisomy

REPOSITORY LIVE

PLACE ORDER

3–6 week average lead time depending on quantity and age requests are not accepted

Also Known As: B6EiC3Sn-Rb(12.Ts65Dn)1Cje, B6EiC3Sn-Rb(12.Ts17<sup>16</sup>65Dn)2Cje/CjeDn, B6EiC3Sn-Rb(12.T17<sup>16</sup>65Dn)2Cje/CjeDn, B6EiC3Sn-Rb(12.Ts17<sup>16</sup>65Dn)2Cje/CjeDn

This strain carries the same trisomic segment as other strains that are models for Down syndrome, but may have advantages in that transmission of the trisomic segment through the female germline is greater and males are fertile.

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N11+N20</td>
</tr>
<tr>
<td></td>
<td>(2018-04-11 00:00:00)</td>
</tr>
</tbody>
</table>

**Rb(12.Ts17<sup>16</sup>65Dn)2Cje**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Rb(12.Ts17&lt;sup&gt;16&lt;/sup&gt;65Dn)2Cje</td>
<td>Robertsonian translocation, Chr 12 and T17&lt;sup&gt;16&lt;/sup&gt;Dn, Charles J Epstein 2</td>
</tr>
</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$81.40 Domestic price for female
Important Note
Pde6b<sup>rd1</sup>, the recessive retinal degeneration 1 mutation, is segregating in this colony. Animals that are homozygous for rd1 will be blind.

Detailed Description
The trisomic segment in the Rb(12.Ts1<sup>16</sup>65Dn)2Cje strain is genetically identical to the Ts65Dn strains, Stock No. 001924 and Stock No. 005252, with trisomy of the Chr 16 genes, from Mrpl39 to the distal telomere. Quantitative PCR confirmed the triplication of Chr 16 genes from App to Mx1. Transmission of the chromosome 16 segmental trisomy through the female germline is significantly improved over Ts65Dn (43% versus 24%). Dendritic spines on granule cells in the fascia dentata are enlarged in size and decreased in density (Villar AJ, et al. 2005). Unlike Ts65Dn, males are fertile. Trisomic mice are 20% smaller in size than controls. This strain serves as a model for Down syndrome.

Development

Control Suggestions

Selected References

Genetics

Rb(12.Ts1<sup>16</sup>65Dn)2Cje

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols

QPCR: Trisomy QPCR
High Resolution Melting: Ts1\textsuperscript{16}
Separated PCR: Ts(17\textsuperscript{16})
Standard PCR: Generic Pde6b
High Resolution Melting: Ts1\textsuperscript{16}
MELT: Generic Pde6b Alternate1
Genotyping resources and troubleshooting

Dietary Information
LabDiet\textsuperscript{®} 5K52 formulation (6% fat)

Mating System
Rb(12.Ts1\textsuperscript{16}65Dn)2Cje female x B6EiC3SnF1/J (001875) male or reciproca

Appearance
agouti or black
Related Genotype: A/A or A/a or a/a

Citation
When using the BAEI C3Sn.Rb(12.Ts1\textsuperscript{16}65Dn)2Cje/CjeDnJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #004850 in your Materials and Methods section.
Facility Barrier Level Descriptions
AXI1 (Maximum)

Pricing & Availability

3–6 week average lead time depending on quantity and age requests are not accepted

<table>
<thead>
<tr>
<th>Domestic Pricing for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial &amp; For-Profit</td>
</tr>
<tr>
<td>Not-For-Profit &amp; Academic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Trisomic for distal Chromosome 16</td>
<td>$247.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Trisomic for distal Chromosome 16</td>
<td>$247.50</td>
<td></td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Wild-type; Diploid for Chromosome 16</td>
<td>$81.40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Wild-type; Diploid for Chromosome 16</td>
<td>$81.40</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Breeder Pair</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>Trisomic for distal Chromosome 16</td>
<td>$425.50</td>
<td></td>
</tr>
</tbody>
</table>
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.

Terms Of Use

Terms of Use
General Terms and Conditions

Additional Use Restrictions Apply
Strain from the Cytogenetic Models Resource. Each order requires submission of a Request Form, please inquire.

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

JAX® Mice, Products & Services Conditions of Use
“MICE” means mouse strains, their progeny derived by inbreeding or crossbreeding, unmodified derivatives from mouse strains or their progeny supplied by The Jackson Laboratory (“JACKSON”). “PRODUCT(S)” means biological materials supplied by JACKSON, and their derivatives. “SERVICES” means projects conducted by JACKSON for other parties that may include but are not limited to the use of MICE or PRODUCTS. “RECIPIENT” means each recipient of MICE, PRODUCTS, or SERVICES provided by JACKSON including each institution, its employees and other researchers under its control. MICE or PRODUCTS shall not be: (i) used for any purpose other than internal research, (ii) sold or otherwise provided to any third party for any use, or (iii) provided to any agent or other third party to provide breeding or other services. Acceptance of MICE, PRODUCTS or SERVICES from JACKSON shall be deemed as agreement by RECIPIENT to these conditions, and departure from these conditions requires JACKSON’s prior written authorization.

No Warranty
MICE, PRODUCTS AND SERVICES ARE PROVIDED “AS IS”. JACKSON EXTENDS NO WARRANTIES OF ANY KIND, EITHER EXPRESS, IMPLIED, OR STATUTORY, WITH RESPECT TO MICE, PRODUCTS OR SERVICES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF NON-INFRINGEMENT OF ANY PATENT, TRADEMARK, OR OTHER INTELLECTUAL PROPERTY RIGHTS.

Credit for PRODUCTS or SERVICES
In case of dissatisfaction for a valid reason and claimed in writing by a purchaser within ninety (90) days of receipt of, PRODUCTS or SERVICES, JACKSON will, at its option, provide credit or replacement for the PRODUCT received or the SERVICES provided; JACKSON makes no other representations and this shall be the exclusive remedy of the purchaser. Please note specific policy for live mice.

Animal Care and Use for SERVICES
Consistent with the requirement for a written understanding regarding animal care and use, the JACKSON Animal Care and Use Committee will review the animal care and use protocol(s) associated with any SERVICES to be performed at JACKSON, and JACKSON
shall have ultimate responsibility and authority for the care of animals while on site or in JACKSON custody.

No Liability
In no event shall JACKSON, its trustees, directors, officers, employees, and affiliates be liable for any causes of action or damages, including any direct, indirect, special, or consequential damages, arising out of the provision of MICE, PRODUCTS, or SERVICES, including economic damage or injury to property and lost profits, and including any damage arising from acts or negligence on the part of JACKSON, its agents or employees. Unless prohibited by law, in purchasing or receiving MICE, PRODUCTS, or SERVICES from JACKSON, purchaser or recipient, or any party claiming by or through them, expressly releases and discharges JACKSON from all such causes of action or damages, and further agrees to defend and indemnify JACKSON from any costs or damages arising out of any third party claims.
MICE, PRODUCTS or SERVICES are to be used in a safe manner and in accordance with all applicable governmental rules and regulations.
The foregoing represents the General Terms and Conditions applicable to JACKSON’s MICE, PRODUCTS or SERVICES. In addition, special terms and conditions of sale of certain MICE, PRODUCTS, or SERVICES may be set forth separately in JACKSON web pages, catalogs, price lists, contracts, and/or other documents, and these special terms and conditions shall also govern the sale of these MICE, PRODUCTS and SERVICES by JACKSON, and by its licensees and distributors.
Acceptance of delivery of MICE, PRODUCTS or SERVICES shall be deemed agreement to these terms and conditions. No purchase order or other document transmitted by purchaser or recipient that may modify the terms and conditions hereof, shall be in any way binding on JACKSON, and instead the terms and conditions set forth herein, including any special terms and conditions set forth separately, shall govern the sale of MICE, PRODUCTS or SERVICES by JACKSON.

Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES

©2018 THE JACKSON LABORATORY

Choose other country or region