Also Known As: infantile gliosis

These mice carry a spontaneous mutation at the Vac14 locus characterized by small size and prevalent hydrocephalus. They are suitable for use in applications related to the study of the phosphoinositide phosphate regulatory complex and neuron development in the mammalian nervous system.
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>006664 C57BL/6J</td>
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</tbody>
</table>

**Vac14**<sup>in</sup><sup>gl</sup><sup>s</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous (Hypomorph)</td>
<td>Vac14</td>
<td>Vac14 homolog (S. cerevisiae)</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS
Neurobiology Research

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

Mice homozygous for the recessive **Vac14**<sup>in</sup><sup>gl</sup><sup>s</sup> mutation are significantly smaller than their littermates, and their coat color is dilute with white underfur both dorsally and ventrally (Sweet 1991; Samples 2003). Most develop hydrocephalus with onset by one week of age. Homozygotes are weak and uncoordinated and have difficulty righting themselves. They fail to gain weight during the second week of life, and most die by three weeks of age. (Bronson et al. 2003) Length of survival appears to correlate with the severity of hydrocephalus, which varies from absent to severe; however, all homozygotes die by four weeks, whether or not they are hydrocephalic (Samples et al. 2003).

Hydrocephalus affects the lateral ventricles most severely; serial sections reveal an intact cerebral aqueduct. Diffuse astrocytic hypertrophy and hyperplasia are observed in brains and spinal cords of mutant mice. A few mutants develop status spongiosis, and a few exhibit gliosis alone. Astrocytes cultured from affected mice stop dividing within three weeks, but survive for up to 12 weeks. They do not develop into tumors when implanted into the brains of normal mice. (Bronson et al. 2003)

Development

Control Suggestions
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
black
Related Genotype: a/a

Citation
When using the infantile gliosis mouse strain in a publication, please cite the originating article(s) and include JAX stock #003095 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Cryo Recovery
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
### Related Products and Services

<table>
<thead>
<tr>
<th>Service/Product</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>B6.D2-Vac14&lt;ingls&gt;/GrsrJ</td>
<td>$2,854.50</td>
</tr>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for Vac14&lt;ingls&gt;</td>
<td>$2,854.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$259.00</td>
</tr>
</tbody>
</table>

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

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