B6;129S7-Ass1^{im1Bay}/J

Stock No: 002189

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.

Mice homozygous for the Ass1^{im1Bay} mutation have an increased concentration of plasma ammonia, a significantly higher plasma concentration of citrulline, and decreased level of arginine. The phenotype of these mutant mice closely resembles the inherited citrullinemia disease in humans.

Donating Investigator

Dr. Allan Bradley, Baylor College of Medicine

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<th>Ass1^{im1Bay}</th>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Null/Knockout)</td>
<td>Ass1</td>
<td>argininosuccinate synthetase 1</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

Metabolism Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery
Mice homozygous for the Ass1\(^{tm1Bay}\) mutation stop gaining weight at about 10 hours after birth and usually die prior to 24 hours after birth. They have a plasma ammonia concentration of 2670 microM, 16 times greater than normal siblings. There is a significantly higher plasma concentration of citrulline and decreased level of arginine. This corresponds to the human disease. There is an overall 2 to 4 fold increase in the plasma levels of almost all amino acids, an effect not found in the human disease. Heterozygous mice are healthy and develop normally. They do, however, have a 2-fold increase in the plasma citrulline level over that seen in normal siblings.

### Disease/Phenotype

### Disease Terms

### Research Areas By Genotype

### Mammalian Phenotype Terms by Genotype

### References

### Technical Support

#### Genotyping Protocols
Standard PCR: Ass1\(^{tm1Bay}\) STD PCR
Genotyping resources and troubleshooting
Breeding Considerations

The Ass<sup>1<sup>tm1Bay</sup></sup> strain is maintained by mating heterozygous mice and normal wildtype siblings. It has been cryopreserved and is currently only available from the cryopreservation repository.

Additional Breeding and Husbandry Support

Citation

When using the BI:129P7-Ass<sup>1<sup>tm1Bay</sup></sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #002189 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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<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for Ass&lt;sup&gt;1&lt;sup&gt;tm1Bay&lt;/sup&gt;&lt;/sup&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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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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.
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