Homozygotes (A/A) and heterozygotes (A/A and A/a) show considerable variation in appearance, ranging from clear yellow, to mottling with dark patches, to a completely agouti-like coat. The variation is strongly influenced by the agouti-locus genotype and strain genome of the dam. Homozygotes and heterozygotes tend to become obese, and the degree of obesity is correlated with the amount of yellow in the coat. A\textsuperscript{vy} resembles A\textsuperscript{p} in causing greater tumor susceptibility and lower graft vs. host reactivity and higher hepatic malic enzyme activity. Homozygotes have a reduced humoral response to tetanus toxoid and decreased rates of carbon clearance as well as impaired mononuclear phagocyte function. The greater tumor susceptibility as well as several altered immune responses occur in A\textsuperscript{vy}/a mice of mottled phenotype but not in those of agout...
Homozygotes (A^vy/A^vy) and heterozygotes (A^vy/A and A^vy/a) show considerable variation in appearance, ranging from clear yellow, to mottling with dark patches, to a completely agouti-like coat. The variation is strongly influenced by the agouti-locus genotype and strain genome of the dam. Homozygotes and heterozygotes tend to become obese, and the degree of obesity is correlated with the amount of yellow in the coat. A^vy resembles A^p in causing greater tumor susceptibility and lower graft vs. host reactivity and higher hepatic malic enzyme activity. Homozygotes have a reduced humoral response to tetanus toxoid and decreased rates of carbon clearance as well as impaired mononuclear phagocyte function. The greater tumor susceptibility as well as several altered immune responses occur in A^vy/a mice of mottled phenotype but not in those of agouti phenotype.
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
Homozygotes and heterozygotes tend to become obese, which limits the number of litters per mating pair.

Additional Breeding and Husbandry Support

Citation
When using the C3HeB/FeJ-A^vy/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #000099 in your Materials and Methods section.

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.

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for A^vy</td>
<td>$2,854.50</td>
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</table>
RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo  C3HeB/FeJ-A<vy>/J  $2595.00

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. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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