These F1 (first filial generation) hybrid mice are the offspring of a cross between C57BL/6J females (B6) and C3H/HeJ males (C3). Uses include hybrid vigor, as a background for deleterious mutations, to create or enhance expression of polygenic diseases, to determine the mode of inheritance, and to provide physiological buffering (present a broader array of responses to various stresses).
Details

Detailed Description

These F1 (first filial generation) hybrid mice are the offspring of a cross between C57BL/6J females (B6) and C3H/HeJ males (C3). F1 hybrid mice are heterozygous at all loci (assuming the parental strains have different alleles), and like inbred mice they are genetically and phenotypically uniform. F1 hybrids are often used for hybrid vigor, as a background for some deleterious mutations, for tissue transplantation, to determine the mode of inheritance, to create or enhance expression of polygenic diseases, and to provide physiological buffering (present a broader array of responses to various stresses).

Development

Genetics

Currently there are no related genes or alleles for this strain.

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Genotyping resources and troubleshooting
Hybrid mice are produced from breeding two different inbred strains together (F1) or the breeding of hybrids together (F2); no genotyping required.

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain is an exceptional breeder.

Additional Breeding and Husbandry Support

Appearance
agouti
Related Genotype: A/a Pde6b<sup>rd1</sup> /+

Citation
When using the B6C3F1/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #100010 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

- AX28 (Maximum)
- AX27 (Maximum)

Pricing & Availability

Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.

Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse
<table>
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<th>AGE</th>
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**Terms Of Use**

Terms Of Use

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