Overview

These F1 (first filial generation) hybrid mice are the offspring of a cross between BALB/cByJ females (CBy) and C57BL/6J males (B6). 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 BALB/cByJ females (CBy) and C57BL/6J males (B6). 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 Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
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.

Breeding Considerations

This strain is a good breeder.

Additional Breeding and Husbandry Support

Appearance

agouti

Related Genotype: \( A^a \ T_{yrp1}^{+}/+ \ T_{yr}^{+}/+ \)

Citation

When using the CByB6F1/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #100009 in your Materials and Methods section.

Pricing & Availability

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

Live Mouse

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