The Jackson Laboratory

B6.Cg-*Fbn1*^{Tsk} +/+ *Bloc1s6*^{pa}/J

Stock No: **000305**

Congenic

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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GENETIC OVERVIEW

Genetic Background	Generation

Bloc1s6^{pa}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*Bloc1s6*	biogenesis of lysosomal organelles complex-1, subunit 6, pallidin

Fbn1^{Tsk}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*Fbn1*	fibrillin 1

VIEW GENETICS

RESEARCH APPLICATIONS

Dermatology Research
Hematological Research
Internal/Organ Research
Neurobiology Research
Sensorineural Research
Developmental Biology Research
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for the pallid spontaneous mutation *Bloc1s6*^{pa} and nonagouti (*a*) have pink eyes and a light, yellow-brown coat. The *Bloc1s6*^{pa}/*Bloc1s6*^{pa} mice have a slightly lighter coat than strains that are homozygous for the pink-eyed dilution allele (*Oca2*^{p}/*Oca2*^{p}). Viability of homozygous mutant mice is slightly reduced. Some homozygotes have slightly abnormal behavior, with abnormal postural responses and head tilting due to the absence of otoliths in the sacculus and utriculus in many but not all mutant mice. The effect of pallid on behavior and otolith morphology appears to be a result of manganese deficiency. Homozygotes display defective mucopolysaccharide synthesis in the otolith matrix and a slower rate of transport of manganese, L-dopa, and L-tryptophane in the brain. Homozygotes have elevated basal and testosterone-induced levels of the kidney lysosomal enzymes b-glucuronidase, b-galactosidase, and a-mannosidase, accompanied by lowered enzyme excretion in the urine. Pallid mice have a deficiency in serum a1-antitrypsin and have been proposed as a model of genetic a1-antitrypsin deficiency. Lung lesions similar to those seen in human emphysema are found in these mice, and are attributed, like human hereditary emphysema, to a decreased capacity to inhibit serum elastase although liver a1-antitrypsin activity is normal. Pallid mice have prolonged bleeding time due to a platelet storage pool deficiency (SPD) characterized by a normal platelet number but a deficiency in the number of platelet dense granules and in the serotonin, ATP, and ADP content of the granules. Two other mouse coat color mutants, muted (*Bloc1s5*^{mu}) and mocha (*Ap3d1*^{mh}), present a similar concatenation of pigment, otolith, and platelet SPD abnormalities, which also occur in human Hermansky-Pudlak syndrome. The pallid mutation is maintained in repulsion with the semidominant tight skin spontaneous mutation (*Fbn1*^{Tsk}).

Control Suggestions

Selected References

Genetics

Bloc1s6^{pa}

Fbn1^{Tsk}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Pyrosequencing:Bloc1s6
Standard PCR:Fbn1
Sanger sequencing:Bloc1s6
Genotyping resources and troubleshooting

Breeding Considerations

Fbn1^{Tsk} is a heterozygous viable, homozygous lethal mutation. *Bloc1s6*^{pa} is a recessive viable mutation. Although *Fbn1*^{Tsk} +/+ *Bloc1s6*^{pa} (double heterozygous) females may reproduce, they generally only produce one to two litters. Thus, it is best to use +*Bloc1s6*^{pa} /+ *Bloc1s6*^{pa} (homozygous pallid) females bred with *Fbn1*^{Tsk} +/+ *Bloc1s6*^{pa} (double heterozygous) males to propagate this strain.

Additional Breeding and Husbandry Support

Appearance

Fbn1^{Tsk} : black, tight skin
Related Genotype: *a*/*a Fbn1*^{Tsk} +/+ *Bloc1s6*^{pa}

Bloc1s6^{pa} : pink-eyed; light, yellow brown coat
Related Genotype: *a*/*a* + *Bloc1s6*^{pa} /+ *Bloc1s6*^{pa}

Citation

When using the B6.Cg-*Fbn1*^{Tsk} +/+ *Bloc1s6*^{pa} /J mouse strain in a publication, please cite the originating article(s) and include JAX stock #000305 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.

Domestic | **International**

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Fbn1<Tsk>,Heterozygous or wildtype for pa	$2,854.50

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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