

C57BLKS-Rpl24^{Bst}/J **FACULTY STRAIN**

Stock No: 000516

◆ Coisogenic, Spontaneous Mutation

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and the heterozygous phenotypic traits include shortened and kinked tail, white feet and belly spot, malocclusion, smaller body size, exencephaly, abnormalities of the spine, ocular defects, and polydactyly. Mutants have underlying optic nerve atrophy; after seven months of age, 19% of heterozygotes have focal, nonrhegmatogenous, retinal detachment accompanied by subretinal neovascularization. This strain offers a model for human optic atrophy and age-related subretinal neovascularization

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GENETIC OVERVIEW

Genetic Background

Generation

F35+2N1F111
(2020-04-23 00:00:00)

Rpl24^{Bst}

Alele Type

Spontaneous (Hypomorph)

Gene Symbol

Rpl24

Gene Name

ribosomal protein L24

VIEW GENETICS

RESEARCH APPLICATIONS

Dermatology Research

Sensorineural Research

Research Tools

Developmental Biology Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$183.37 Domestic price for female

V I E W P R I C E L I S T

- Details

- Detailed Description

Belly spot and tail ($Rpl24^{Bst}$) is a semidominant, homozygous *in utero* lethal mutation. Adult heterozygotes are viable and fertile although a reduced birth rate for heterozygotes has been reported. This may reflect incomplete penetrance, or, more likely, prenatal mortality. The $Rpl24^{Bst}$ mutation has variable expressivity and the heterozygous phenotypic traits include shortened and kinked tail, white feet and belly spot, malocclusion, smaller body size, exencephaly, abnormalities of the spine, ocular defects, and polydactyly. Polydactyly is found predominantly in the right rear paw, occasionally in the left front paw and rarely in the left rear or right front paws. Approximately 50-60% of the heterozygotes have a reduction in pupillary light reflex in one or both eyes due to an underlying optic nerve atrophy. Ontological studies showed a delay in the developmental fusion of the optic fissure, a disruption of the retinal layers by embryonic day 15, and smaller optic nerves, and abnormal retinal morphology at postnatal day 0. BrdU labeling revealed a temporary delay of cellular differentiation in the neural retina at embryonic day 10.5. After seven months of age, 19% of heterozygotes have focal, nonrhegmatogenous, retinal detachment accompanied by subretinal neovascularization. Thus, this strain offers a model for human optic atrophy and age-related subretinal neovascularization. (Smith et al., 2000; Tang et al., 1999; Rice et al., 1997; Rice et al., 1995; Harris et al., 1989; Epstein et al., 1986; Southard and Eicher, 1977).

+ Development

+ Control Suggestions

- Genetics

+ $Rpl24^{Bst}$

- Disease/Phenotype

+ Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Appearance

black with belly spot

Related Genotype: *a/a Rpl24^{Bst} /+*

black

Related Genotype: *a/a +/+*

Citation

When using the C57BLKS-*Rpl24^{Bst}* /J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000516 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [MGL277 \(Low\)](#)

[- Pricing & Availability](#)



Availability
Varies

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Heterozygous for Rpl24 ^{Bst}	\$183.37
	Male	Heterozygous for Rpl24 ^{Bst}	\$183.37
Approx 4-8 weeks	Female	Wild-type for Rpl24 ^{Bst}	\$74.00
	Male	Wild-type for Rpl24 ^{Bst}	\$74.00

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C57BLKS-Rpl24<Bst>/J	\$2595.00
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