

C57BLKS/J
Stock No: **000662**
 **Inbred Strain**

Sized to accommodate orders of up to 10 or more with age range. Ask [Customer Service](#) for details.

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Also Known As: Black Kaliss J, C57 Kaliss, C57BL/Ks, BKS

C57BLKS/J is closely related to C57BL/6J, but the strains are phenotypically distinct. Differences include more severe diet-induced atherosclerotic lesions in C57BLKS/J mice, low total cholesterol and low HDL cholesterol when fed a normal diet, and high total cholesterol and HDL cholesterol in an atherogenic diet. C57BLKS/J mice have a relatively high percentage of reticulocytes per total number of erythrocytes, high white blood cell count per volume, with a high percentage of lymphocytes and basophils and a low percentage of neutrophils per total number of leukocytes. C57BLKS/J mice exhibit age related hearing loss.

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)
(2019-06-14 00:00:00)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Sensorineural Research
Research Tools
Diabetes and Obesity Research
Metabolism Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$106.47 Domestic price for female 4-week

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[Details](#)

Important Note

This strain is homozygous for *Cdh23^{ahl}*, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset prior to three months of age.

[Detailed Description](#)

Although C57BLKS/J is estimated to have more than 70% of its genome derived from C57BL/6J, these strains are phenotypically distinct. Diet-induced atherosclerotic lesions are much more severe in C57BLKS/J than in C57BL/6J or many other inbred strains. Compared with a panel of inbred strains, C57BLKS/J was found to have low total cholesterol and low HDL cholesterol when fed a normal diet and high total cholesterol and HDL cholesterol in an atherogenic diet. Paigen *et al.* found high levels of plasma bile salts in C57BLKS/J females after eight weeks on an atherogenic diet. The mutations diabetes (*Lep^{db}*) and obese (*Lep^{ob}*) each express a much more severe phenotype on the C57BLKS/J background than on the C57BL/6J background. The *Cpe^{fat}* mutation causes severe obesity, hyperinsulinemia, and hyperglycemia on the C57BLKS/J background rather than the hyperinsulinemia, and mild obesity without hyperglycemia found on the HRS/J background. In a comparative study of 43 inbred strains, Barker and Peters found that C57BLKS/J had a relatively high percentage of reticulocytes per total number of erythrocytes, high white blood cell count per volume, with a high percentage of lymphocytes and basophils and a low percentage of neutrophils per total number of leukocytes. C57BLKS/J mice exhibit age related hearing loss by three months of age.

[Development](#)

[Selected References](#)

Genetics

+ [Cdh23^{ahl}](#)

+ [Ahr^{b-1}](#)

Disease/Phenotype

+ [Disease Terms](#)

+ [Research Areas By Phenotype](#)

+ [Mammalian Phenotype Terms by Genotype](#)

+ [Phenotype Information](#)

+ [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](#)

Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Breeding Considerations

[This strain is a challenging breeder.](#)

[Additional Breeding and Husbandry Support](#)

Mating System

Sibling x Sibling

Appearance

black

Related Genotype: *a/a*

Citation

When using the C57BLKS/J mouse strain in a publication, please include JAX stock #000662 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

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LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Not Applicable	\$106.47
	Male	Not Applicable	\$116.33
5 weeks	Female	Not Applicable	\$106.47
	Male	Not Applicable	\$116.33
6 weeks	Female	Not Applicable	\$109.92
	Male	Not Applicable	\$119.78
7 weeks	Female	Not Applicable	\$113.37
	Male	Not Applicable	\$123.23
8 weeks	Female	Not Applicable	\$116.82
	Male	Not Applicable	\$126.68
9 weeks	Female	Not Applicable	\$120.27
	Male	Not Applicable	\$130.13
10 weeks	Female	Not Applicable	\$123.72
	Male	Not Applicable	\$133.58

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one breeding pair to avoid delays in their research.

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