

C57BL/6NJ

Stock No: **005304** | B6N

 Inbred Strain

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

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)



Also Known As: B6N, Black 6N

This is an NIH subline of C57BL/6. It was separated from C57BL/6J in 1951. Five SNP differences have been identified that distinguish C57BL/6J from C57BL/6ByJ and C57BL/6NJ. This strain does not have the deletion in the *Nnt* gene that has been found in the C57BL/6J strain (Stock No. [000664](#)).

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)
(2018-07-27 00:00:00)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Developmental Biology Research
Sensorineural Research
Cell Biology Research
Mouse/Human Gene Homologs

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$21.45 Domestic price for male 3-week

[VIEW PRICE LIST](#)

Volume Pricing Available!

for select shipping destinations

[Click for Details](#)

[- Details](#)

Important Note

This strain is homozygous for *Crb1^{rd8}*, the retinal degeneration 8 mutation. Photoreceptor degeneration is observed in spots, caused by retinal folds and pseudorosettes, found in the fundus of the eye.

[- Detailed Description](#)

This is an NIH subline of C57BL/6. It was separated from C57BL/6J in 1951. 5 SNP differences have been identified that distinguish C57BL/6J from C57BL/6ByJ and C57BL/6NJ. Both C57BL/6ByJ and C57BL/6NJ type as follows: 08-015199792-M (rs3709624) is C; 11-004367508-M (rs3659787) is A; 13-041017317-M (rs3722313) is C; 15-057561875-M (rs3702158) is G; 19-049914266-M (rs3724876) is T. C57BL/6J types as follows: 08-015199792-M is T; 11-004367508-M is G; 13-041017317-M is T; 15-057561875-M is A; 19-049914266-M is G (Petkov and Wiles 2005.) This strain does not have the deletion in the *Nnt* gene that has been found in the C57BL/6J strain (Stock No. [000664](#)). C57BL/6NJ mice are homozygous for *Cyflp2^{M/N}*, a spontaneous mutation in the cytoplasmic FMR1 interacting protein 2 that results in an amino acid substitution of phenylalanine for serine at position 968 (S968F). The mutation is found in all C57BL/6N substrains but is not present in the C57BL/6J strain or substrains. The mutation results in 45% lower acute response to cocaine as measured by locomotor hyperactivity.

[+ Development](#)

[+ Selected References](#)

− Genetics

+ *Crb1*^{rd8}

+ *Cyfp2*^{M1N}

+ *Nlrp12*^{C57BL/6N}

+ *Cox7a2l*^S

− 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

Separated PCR:[GAL Panel](#)

End Point Analysis:[H2rs253049200-Alt 1-EP](#)

End Point Analysis:[H2rs253049200-Alt 1-EP](#)

End Point Analysis:[Crb1End Point](#)

End Point Analysis:[Kif1a](#)

End Point Analysis:[Smcx/Smcy-PROBE](#)

Sanger sequencing:[H2rs253049200](#)

Sanger sequencing:[Gabra2-SEQ](#)

[Genotyping resources and troubleshooting](#)

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

Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Mating System

Inbred x Inbred

Appearance

black

Related Genotype: *a/a*

Citation

When using the B6N mouse strain in a publication, please include JAX stock #005304 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [RB07 \(Maximum\)](#)

 [MP13 \(Maximum\)](#)

 [EM01 \(Maximum\)](#)

 [AX5 \(Standard\)](#)

 [MP16 \(Standard\)](#)

🔵 Pricing & Availability



**Readily
Available**

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

Domestic | **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE

SEX

GENOTYPE

PRICE

3 weeks	SEX	Not Applicable	\$23.63
	Male	Not Applicable	\$21.45
4 weeks	Female	Not Applicable	\$24.34
	Male	Not Applicable	\$22.31
5 weeks	Female	Not Applicable	\$26.08
	Male	Not Applicable	\$25.57
6 weeks	Female	Not Applicable	\$26.83
	Male	Not Applicable	\$26.28
7 weeks	Female	Not Applicable	\$28.35
	Male	Not Applicable	\$28.31
8 weeks	Female	Not Applicable	\$29.19
	Male	Not Applicable	\$29.16
9 weeks	Female	Not Applicable	\$30.63
	Male	Not Applicable	\$30.27
10 weeks	Female	Not Applicable	\$38.42
	Male	Not Applicable	\$38.05
11 weeks	Female	Not Applicable	\$39.42
	Male	Not Applicable	\$40.80
12 weeks	Female	Not Applicable	\$40.55
	Male	Not Applicable	\$41.10
13 weeks	Male	Not Applicable	\$44.21

VOLUME PRICING DETAILS	
QUANTITY	Volume Pricing
75	5% off
150	10% off

Volume Pricing Program

Quantities: Volume pricing is automatically applied when a minimum quantity per strain for a shipment is reached
 Sexes: Sexes of the same strain may be combined to reach minimum quantity levels to receive the volume pricing
 Shipment: All shipping destinations qualify

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.

Terms Of Use

TERMS OF USE

[General Terms and Conditions](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection






JAX | IT'S WHERE THE MICE ARE.
DONATE YOURS.



[LEARN MORE](#)

 CONTACT

 DONATE

 SUBSCRIBE

[JAX HOME](#) [CAREERS](#) [LEGAL INFORMATION](#)

[RESEARCH CENTERS](#) [MOUSE GENOME INFORMATICS](#)


[MOUSE PHENOME DATABASE](#)

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region 

[^](#) [E](#) [E](#) [D](#) [B](#)

Did you find what you were looking for?

Yes No