The Jackson Laboratory

# B6N.129P2-*Cd19* $^{tm1(cre)Cgn}$ /J

Stock No: **018958** | Cd19cre

Congenic, Targeted Mutation

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

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gene (*Cd19*); both abolishing endogenous Cd19 gene function and placing *cre* expression under the control of the endogenous Cd19 promoter/enhancer elements. Cre recombinase expression is directed at the earliest stages and throughout B-lymphocyte development and differentiation. Homozygous mice are also useful for studying B cell-deficiency.

READ MORE +

## GENETIC OVERVIEW

| Genetic Background | Generation |
|---|---|

### *Cd19*$^{tm1(cre)Cgn}$

| Allele Type | Gene Symbol | Gene Name |
|---|---|---|
| Targeted (Recombinase-expressing) | *Cd19* | CD19 antigen |

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools
Developmental Biology Research
Hematological Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

## Details

### Detailed Description

To be more suitable for use with C57BL/6N-congenic Knockout Mouse Project (KOMP) strains with floxed alleles, The Jackson Laboratory Repository chose several Cre recombinase-expressing strains and backcrossed them onto the C57BL/6N genetic background using a marker-assisted, speed-congenic approach. This approach employed 148 single nucleotide polymorphism (SNP) markers that differ between the C57BL/6N and C57BL/6J substrains, covering all 19 chromosomes and the X chromosome. This analysis determined that the colony has at least 99% of the SNP markers as C57BL/6N allele-type.

The parental line, C57BL/6-congenic CD19-Cre knockin/knockout mice, are available and described as Stock No. 006785. It should be noted that the phenotype of these C57BL/6NJ-congenic CD19-Cre knockin/knockout mice (Stock No. 018958) could vary from that of the C57BL/6-congenic parental line from which it was derived. We may modify the C57BL/6NJ-congenic strain description if necessary as published results become available.

### Development

### Expression Data

### Control Suggestions

## Genetics

### *Cd19*$^{tm1(cre)Cgn}$

## Disease/Phenotype

### Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

## Technical Support

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols

Separated PCR:Cd19 Alternate2
Genotyping resources and troubleshooting

### Breeding Considerations

Mice were bred to C57BL/6NJ inbred mice (Stock No. 005304) for many generations using a marker-assisted, speed congenic approach to generate this C57BL/6NJ-congenic strain. In 2007, the donating investigator of the C57BL/6-congenic CD19-Cre strain (Stock No. 006785) reported that homozygotes did not breed well after three months of age. The C57BL/6-congenic homozygous breeding pairs maintained at The Jackson Laboratory Repository have shown no such problems. Therefore, when maintaining the live C57BL/6N-congenic colony (Stock No. 018958), homozygous mice may be bred together.

Additional Breeding and Husbandry Support

### Citation

When using the Cd19cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #018958 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 Internatic

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

| SERVICE/PRODUCT | DESCRIPTION | PRICE |
|---|---|---|
| Cryo Recovery | Heterozygous or wildtype for Cd19<tm1(cre)Cgn> | $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.

# Terms Of Use

## TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

## ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license prior to shipping.

## LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

# Related Strains

All

By Allele

By Gene

By Collection