

## NZW/LacJ

Stock No: **001058** | NZW

 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: New Zealand White, NZW

NZW mice have a normal lifespan but do develop anti-DNA antibodies, high serum levels of retroviral gp70 antigen, and nephritis later in life. F1 hybrids of NZB/BINJ and NZW/LacJ (Stock No. [100008](#)) are widely used as a model for autoimmune disease resembling human systemic lupus erythematosus.

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## GENETIC OVERVIEW

Genetic Background

Generation

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

VIEW GENETICS

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## RESEARCH APPLICATIONS

Neurobiology Research  
Hematological Research  
Immunology, Inflammation and Autoimmunity Research  
Dermatology Research  
Mouse/Human Gene Homologs

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$103.59 Domestic price for female 3-week

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### [Details](#)

#### [Detailed Description](#)

NZW mice have a normal lifespan but develop anti-DNA antibodies, high serum levels of retroviral gp70 antigen, and nephritis later in life. Although NZW mice have a large CD4+ T cell population, the proportion of FOXP3+ T regulatory cells (Treg) in the lymph nodes and spleen, but not thymus, is significantly decreased in comparison to several commonly used inbred strains (C57BL/6, BALB/c, NOD/ShiLtJ, CBA/J). F1 hybrids of NZB/BINJ and NZW/LacJ (Stock No. 100008) are widely used as a model for autoimmune disease resembling human systemic lupus erythematosus.

In 2019-2020, researchers at The Jackson Laboratory discovered this inbred strain contains the *Trem2*<sup>S148E</sup> allele - a naturally occurring variant at position 48351151-48351152 on Chr 17 ([rs108080490](#) and [rs107649577](#); Ensembl GRCm38.p6). This TC to GA transition results in a serine to glutamic acid substitution at amino acid 148 (S148E).

#### [Development](#)

#### [Selected References](#)

### [Genetics](#)

#### [Oca2<sup>p</sup>](#)

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[+ \*Pctp\*<sup>R120H</sup>](#)

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[+ \*Bfsp2\*<sup>Dundee</sup>](#)

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[+ \*Cox7a2l\*<sup>S</sup>](#)

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[+ \*Tyro3\*<sup>m1</sup>](#)

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## [- Disease/Phenotype](#)

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ Phenotype Information](#)

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[+ References](#)

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## [- 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.

### Dietary Information

LabDiet® 5K52 formulation (6% fat)

### Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

### Mating System

Sibling x Sibling

### Appearance

albino

Related Genotype: *Tyrp1*<sup>b</sup>/*Tyrp1*<sup>b</sup> *Oca2*<sup>o</sup> *Tyr*<sup>c</sup>/*Oca2*<sup>o</sup> *Tyr*<sup>c</sup> *A/A*

## Citation

When using the NZW mouse strain in a publication, please include JAX stock #001058 in your Materials and Methods section.

## Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [MP16 \(Standard\)](#)

## 🔴 Pricing & Availability



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## Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE		SEX	PRICE
3 weeks		Female	\$103.59
		Male	\$103.59
4 weeks		Female	\$103.59
		Male	\$103.59
5 weeks		Female	\$103.59
		Male	\$103.59
6 weeks		Female	\$107.04
		Male	\$107.04
7 weeks		Female	\$110.49
		Male	\$110.49
8 weeks		Female	\$113.94
		Male	\$113.94

## RELATED PRODUCTS AND SERVICES

[Mouse ES Cells](#)

[NZW/LacJ mES cells](#)

\$695.00

## 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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#### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

### Related Strains

All

By Allele

By Gene

By Collection





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