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.
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 $\text{Trem2}^{S148E}$ allele - a naturally occurring variant at position 48351151-48351152 on Chr 17 ($\text{rs108080490}$ and $\text{rs107649577}$; Ensembl GRCm38.p6). This TC to GA transition results in a serine to glutamic acid substitution at amino acid 148 (S148E).
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>b</sup> Tyr<sup>bc</sup>/Oca2<sup>b</sup> Tyr<sup>bc</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
Pricing & Availability

Available Now
Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

### Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

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### Related Products and Services

| Mouse ES Cells | NZW/LacJ mES cells | $695.00 |

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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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Terms Of Use

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All

By Allele

By Gene

By Collection

All Related Strains