The Diversity Outbred (DO) stock is a genetically diverse mouse resource and may be used as a tool for high resolution genetic mapping and validation of previously identified quantitative trait loci (QTLs) linked to disease susceptibility, drug resistance or behavioral phenotypes.

Also Known As: Diversity Outbred, DO

View the Most Current Breeding Wave Schedule and Order Instructions

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View Data Analysis Resources

### GENETIC OVERVIEW

**Genetic Background**

**Generation**

View Genetics
The Diversity Outbred (DO) stock is designed to be the most genetically diverse mouse resource available, allowing more accurate modeling of the human population and more refined gene mapping resolution than any other mouse model. Individual DO mice have highly heterogenous genomes as a result of their diverse parental genetic contributions (see 'Development' below). DO mice may be used as a tool for high resolution genetic mapping and validation of previously identified quantitative trait loci (QTLs) linked to disease susceptibility, drug resistance or behavioral phenotypes. High density genotyping of individual mice can be achieved with genotyping arrays. DO mice may also be useful for toxicogenomic screens, compound evaluation in a genetically diverse population, and the development of opposite responder populations with high and low responses for specific phenotypes of interest.

Currently there are no related genes or alleles for this strain.
Breeding Considerations

This strain is an exceptional breeder.

When maintained in a live colony, these mice are randomly bred and avoid the use of sibling matings.

Additional Breeding and Husbandry Support

Appearance
multiple coat colors

Citation
When using the J:DO mouse strain in a publication, please cite the originating article(s) and include JAX stock #009376 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

AX4 (Standard)

Pricing & Availability

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.
**Live Mouse**

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains