



NATURAL  
MUTANTS



MOUSE  
Inbred

GENETICALLY  
ENGINEERED  
MODELS  
(GEM)

## B6 CD45.1 MOUSE

WILD TYPE

**Strain name:** B6.Cg-Ptprc<sup>a</sup>-Pepc<sup>b</sup>/Rj

**Type:** Congenic inbred mouse

**Origin:** JANVIER LABS 2023

**Colour and related genotype:**

Black mouse, a (a/a) non agouti -  
MHC: Haplotype *H2<sup>b</sup>*

NATURAL  
IMMUNO-  
DEFICIENT



## Presentation of the model

This congenic strain is frequently used in transplantation studies due to its distinctive pan leukocyte marker *Ptprc<sup>a</sup>*, commonly known as CD45.1 or Ly5.1. This contrasts with other inbred strains such as C57BL or BALB/c that express the *Ptprc<sup>b</sup>* (CD45.2 or Ly5.2) allele.

The creation of this model involved speed backcrossing of the *Ptprc<sup>a</sup>* and linked *Pepc<sup>b</sup>* alleles from SJL/JRj onto a C57BL/6NRj background.



## Main application and research fields

TRANSPLANTATION

CARDIOVASCULAR DISEASES

DEGENERATIVE DISEASES

AGEING

IMMUNOLOGY

INFECTIOUS DISEASES

METABOLIC DISEASES

NEUROSCIENCES

PRE-CLINICAL STUDIES

ONCOLOGY

PHYSIOLOGY-PHYSIOPATHOLOGY



## Our added value

- The «JANVIER LABS Genetic Policy», specific programme, guarantees homozygosity of autosomal pairs
- Animals with the SPF or SOPF standards
- A gentling policy for docile and easy-to-handle animals
- Optimal stability conditions of our models during shipments, thanks to our dedicated and internal transport service
- A scientific support with a team of Veterinarians and PhD

**JANVIER  
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