



NATURAL
MUTANTS



MICE
Inbred

GENETICALLY
ENGINEERED
MODELS
(GEM)

WILD TYPE

NATURAL
IMMUNO-
DEFICIENT

B6N Albino Mouse

Strain name: B6(C)/Rj-Tyr^{c/c}

Type: Inbred mouse

Origin: Created by JANVIER LABS in 2015, principle pair F0/N11

Colour and related genotype:
Albino mouse - Tyr^{c/c}

Breeding: Good breeder



Presentation of the model

This strain was developed by crossing a C57BL/6NRj with a BALB/cAnNRj and the B6cF1 was backcrossed over 10 generations with a C57BL/6NRj genetic background. The result: an inbred mouse with a C57BL/6NRj genetic background carrying the albino mutation.

The B6(C)/Rj-Tyrc/c, therefore, has absolutely no pigments (skin, eyes). This strain also possesses characteristics similar to a C57BL/6NRj, but does not carry the Nnt gene mutation, unlike the C57BL/6JRj.

The B6(C)/Rj-Tyrc/c is mainly used in transgenics for the creation of blastocysts intended for the reception of genetically modified ES cells by way of microinjection on a C57BL/6 genetic background. This strain can also be used by immunology, such as the C57BL/6.

It is, in this case, used in the production of embryo kits, from zygotes to blastocyst stage.



Main application and research fields

DEVELOPMENT BIOLOGY, AGEING

CARDIOVASCULAR RESEARCH: ATHEROSCLEROSIS

GENETIC BACKGROUND FOR TRANSGENIC ANIMALS PRODUCTION

IMMUNOLOGY AND INFLAMMATION

INFECTIONS ONCOLOGY

METABOLISM: OBESITY, DIABETES, HYPERGLYCEMIA, INSULIN RESISTANCE

NEUROBIOLOGY AND NEURO-SENSORY RESEARCH

TOXICOLOGY, HEMATOLOGY



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

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