



NATURAL
MUTANTS



MICE
Inbred

GENETICALLY
ENGINEERED
MODELS
(GEM)

B6 Agouti Mouse

WILD TYPE

Strain name: B6(C)/Rj-A/A

Type: Inbred mouse

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

NATURAL
IMMUNO-
DEFICIENT

Colour and related genotype:
Agouti mouse - A/A

Breeding: Good breeder



Presentation of the model

This strain was developed by crossing a C57BL/6NRj with a BALB/cAnNRj and the B6cF1 (carrier of the Tyrmut gene) was backcrossed over 10 generations with a C57BL/6NRj genetic background. The result: an inbred mouse with a C57BL/6NRj genetic background and agouti colouring.

The B6(C)/Rj-A/A, therefore, has an agouti fur. 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-A/A is mainly used in transgenics for the creation of blastocysts intended for the reception of genetically modified ES cells by way of microinjection on mice with a C57BL/6 genetic background. This strain can also be used in immunology research, such as 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-SENSORIAL 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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