

Transgenic Model Platform

Integral tailor-made solutions to generate your own transgenic animal for your research purposes



You can contract us to perform the entire transgenic project from design and DNA vector construction to phenotyping and maintenance of transgenic line, as well as milestone steps for partial services

DNA Vector Construction

The construction of targeting vectors is a prerequisite for the generation of genetically engineered animals and establishment of a transgenic cell lines. Our molecular biology platform provides **design, construction and modification** of different DNA vectors (**plasmids, BACs and YACs**) for different research aims such as transgene expression or genome editing (Knockout and Knockin).

Animal Models

Mice and Zebrafish

Generation

Neuron Bio generates your own transgenic/knockout/knockin mouse or zebrafish by microinjection or electroporation of different constructs into fertilized oocytes/eggs.

Services:

- DNA purification.
- DNA linearization.
- Screening.
- Genotyping.
- Breeding, feeding, establishment and maintenance of founder and F1 animals.

Transgenic mice and zebrafish provide excellent models of human diseases. They allow us to evaluate the effects of single altered genes in the context of the whole organism and provide tremendous insight into gene function. However, they can provide research results that are frequently unexpected, confusing or simply uninformative. A broad phenotypic characterization of emerging mouse models will add important value and greatly enhance their utility. For this reason, Neuron Bio is committed to providing comprehensive phenotyping services for both species.



Phenotyping

Services:

- Genotypic analysis of founders.
- Analysis of transgene expression (Western Blot & RT-PCR).
- Behavioural and cognitive phenotyping.
- Histology & histopathology, immunohistochemistry (IHC).
- Imaging techniques (bioluminescence, fluorescence...).
- Multiplex detection of immunology.

Mammalian Stable Cell Lines

Human and Mouse Lines

Stable cell lines are an essential tool for drug screening, gene functional studies and other applications. They can grow continuously over a prolonged period of time and stably carry a genetic modification or express a transgene without significant changes in expression levels.

Neuron Bio offers state-of-the-art services for establishing stable cell lines for genome editing, gene knockdown or protein overexpression, that meet your specific research needs.

Contact us

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