

Rat Line Genome Engineering Service



gen **O** way

Personalized Genome Engineering Service

Rat Line Development

Their physiology makes rats valuable as research models for certain research fields, including: cardiovascular diseases, diabetes, neural regeneration, oncology, psychiatric disorders, and more.

We translate your project into the most adapted and physiologically relevant model.



Our Complete Rat Offer

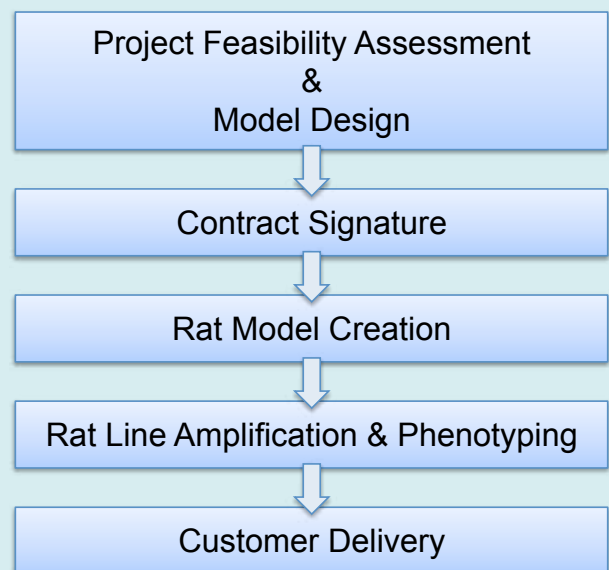
- Knockout models by gene inactivation and Knockin point mutant models
- Large choice of outbred (e.g., SD) and inbred (e.g., Lewis) genetic backgrounds
- Customized cohort production and delivery, to enable our clients to get their first scientific results fast
- Rat line characterization with a comprehensive panel of phenotyping tests, such as mRNA quantification by RT-qPCR, protein quantification and localization, and functional assays

YOUR BENEFITS

- Thorough project assessment
- Exhaustive technology portfolio
- Dedicated project management
- Short development time
- Freedom To Operate (FTO)
- Phenotyping service

The customization of your rat model improves its physiological relevancy thereby increasing the scientific value of your study.

DEVELOPMENT PROCESS



15 Years of Experience in Rat

No other company has such an extensive proven technology track record in the rat genome engineering field:

Pronuclear microinjection, RNAi-based knockdown, ENU mutagenesis, nuclear transfer, meganuclease, ZFN, TALEN, **CRISPR/Cas9**, etc.

www.genoway.com/services/rats/rat-models.htm#milestones

Ralph, the world's first cloned rat, was created by genOway.
[Zhou et al., Science, 2003](#)



A Complete CRISPR/Cas9 Platform

We have developed a state-of-the-art CRISPR/Cas9 technology platform for the development of our models, and are continuously improving the CRISPR/Cas9 technology to provide our clients with better models, faster.

www.genoway.com/services/crispr-cas9-models/crispr-cas9-rd.htm

TESTIMONIAL

Prof. Ivan DIKIC
Goethe University Frankfurt

«genOway has a professional attitude toward its customers. We had really appreciated their innovative technologies and the personal contact with their team. They truly care about their customers.»

>> In the past 4 years, our platform has produced more CRISPR/Cas9-based models than the entire scientific community has published. (For more information, visit our web site.)

At Your Service

A team of senior scientists is fully dedicated to project management to not only provide you with regular reports and on demand reviews but also to modify project characteristics and deliverables to fit with changes in your research program and/or objectives.

No Intellectual Property Burden

Our exclusive technologies and broad set of licenses guarantee you will fully and freely benefit from your model.



Alexandre Fraichard
General Manager

«Thorough project assessment, in-depth scientific analysis of your current and future needs, exhaustive technology portfolio, excellence in production, and dedicated customer care are the core pillars that distinguish our personalized genome engineering service. We provide you with the most adapted and physiologically relevant research model.»

At a glance

With 100 employees, genOway has created more than 1,500 genetically modified models, while serving clients in:

- 28 countries worldwide
- 265 academic institutions and 13 EU framework projects
- 70 biopharmaceutical and 14 of the Top 20 pharma companies

YOUR SUCCESS IS OUR SUCCESS

Gulbins E et al.

Acid sphingomyelinase-ceramide system mediates effects of antidepressant drugs.

Nature Medicine

Adolph TE et al.

Paneth cells as a site of origin for intestinal inflammation.

Nature

Clement JP et al.

Pathogenic SYNGAP1 mutations impair cognitive development by disrupting maturation of dendritic spine synapses.

Cell