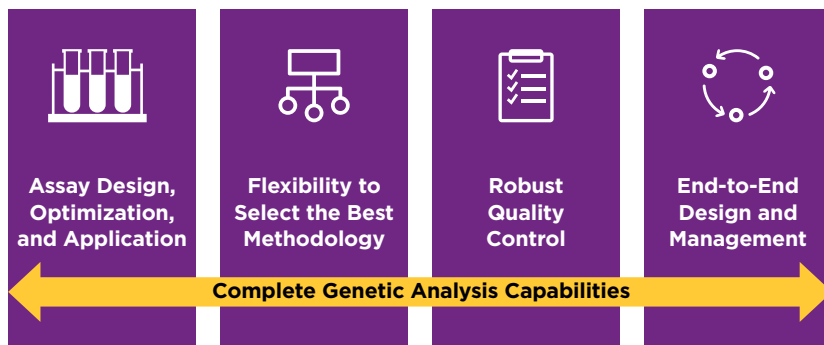




# Genotyping & Genetic Analysis

## Comprehensive Capabilities with Expert Oversight for Any Application

The importance of a comprehensive genotyping platform to a genetically engineered model (GEM) colony management program cannot be understated. Accurate and timely genotyping data is fundamental to the integrity of downstream experimental results, proper application of the animal model, and compliance to proper animal welfare practices. Taconic Biosciences® colony management solutions include comprehensive genotyping and genetic analysis services to ensure integrity in your study cohorts and confidence in experimental results.



## COMPREHENSIVE GENOTYPING CAPABILITIES FOR ANY PROBLEM

### GENOTYPING ASSAY DEVELOPMENT

- ▶ Comprehensive genotyping capabilities
- ▶ Develop and/or optimize existing assays to automated, high throughput, state-of-the-art methodology
- ▶ Consultative and collaborative assay development and optimization services for customer-provided models/materials

### TRANSNETYX® GENOTYPING

- ▶ Convert genotyping assays to Transnetyx® platform
- ▶ Seamlessly integrated Transnetyx® & Taconic data systems
- ▶ Accelerated genotyping turnaround available

### SPECIALIZED GENOTYPING

- ▶ Additional specialized genotyping services available including high throughput single nucleotide polymorphism (SNP) analysis, restriction fragment length polymorphism (RFLP), and sequence analysis

### TRANSGENE CHARACTERIZATION

- ▶ Transgene Copy Number Analysis
- ▶ Transgene Zygosity analysis for discerning WT/HET/HOM animals
- ▶ Transgene Mapping Analysis (TgMA) to determine precise location(s) of transgene integration
- ▶ Gene expression analysis via real-time PCR and/or FACS

### KEY BENEFITS

- ▶ Comprehensive genotyping capabilities for any application
- ▶ PhD level oversight and review of genotyping reports
- ▶ In-house and 3rd party partners facilitate robust capabilities and rapid turnaround
- ▶ Assay development, optimization, and transfer capabilities
- ▶ On-demand access to data via eTACONIC®

Get in touch for more information about our products and services.

US: 1-888-822-6642 | EU: +45 70 23 04 05 | [info@taconic.com](mailto:info@taconic.com) | Learn more at: [taconic.com/colony-management](https://taconic.com/colony-management)



## UNPARALLELED OVERSIGHT AND QUALITY CONTROL

### QUALITY CONTROL

- ▶ PhD molecular biologists and geneticists oversee all services
- ▶ Genotyping results reviewed and approved by PhD geneticists
- ▶ Robust & transparent genotype inquiry and investigation process

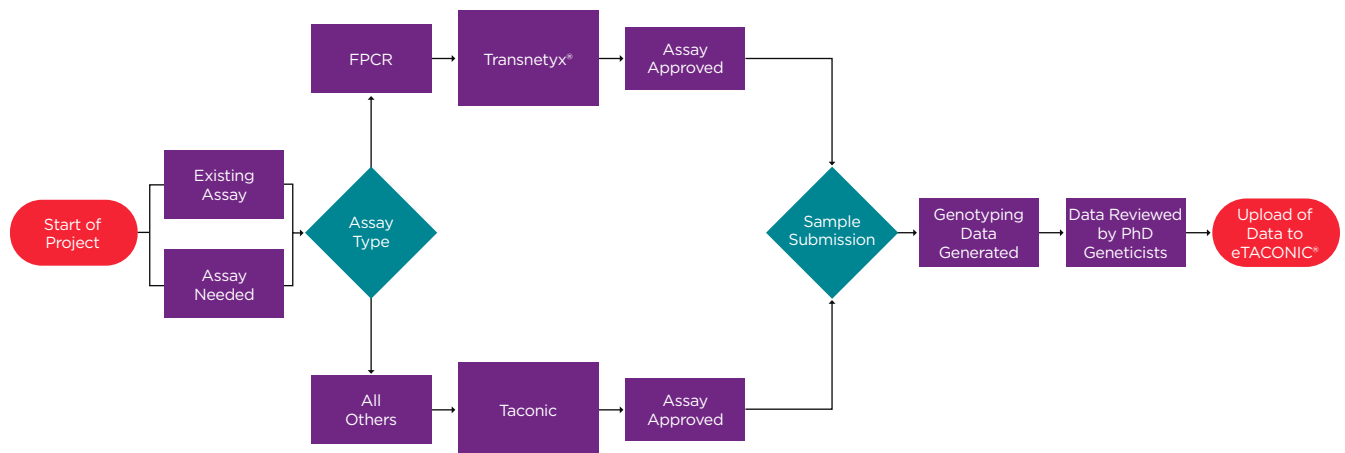
### ACCESS & TURNAROUND

- ▶ Genotyping data available on-demand via web-based eTACONIC® portal
- ▶ Seamless assay migration from model generation to colony management
- ▶ Dedicated Project Managers manage and utilize the most appropriate methodologies in agreement with study goals and timeline

## SUPPORTING SERVICES FOR ANY PROBLEM

Taconic's strong track record of providing accurate, reproducible genotypes is built on over 35 years of experience managing colonies of genetically engineered mice and rats. Leveraging both in-house laboratories and external partnerships, Taconic provides redundancy and a full breadth of molecular analysis tools. These capabilities are intelligently leveraged in alignment with your project charter to ensure the most appropriate assay is used, while providing both on-demand data access and live support from your dedicated Project Manager.

### GENOTYPING WORKFLOW OVERVIEW



### eTACONIC®: REAL-TIME DATA ACCESS

Easy access to genotyping results is as important as the results themselves. Taconic addresses this need by complementing your dedicated Project Manager with on-demand access to eTACONIC®. Following review and approval by our PhD geneticists and molecular biologists, results are posted to eTACONIC® for immediate download and review with your live Project Manager available if questions arise.

- ▶ On-demand, real-time access to data and project status
- ▶ Easily review genotype and inventory data including age, line, quantity, and breeding status
- ▶ Project dashboard provides relevant data for PIs, veterinarians, program managers, and more

## PUT OUR GENETIC ANALYSIS CAPABILITIES TO WORK FOR YOU

### PARTNER WITH TACONIC ON YOUR NEXT STUDY

Leverage Taconic's genotyping and genetic analysis capabilities and allow our team of experts to utilize the best assay(s) for the job, helping to ensure animal model integrity and quality for your next study.

Get in touch for more information about our products and services.

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