

# CRISPR Off-Target Analysis Service

Advanced Genetic Analysis Services to Ensure Accurate Model Characterization



When building a custom model using CRISPR-Cas9 technologies, off-target mutations can occur at locations in the genome with sequences similar to the on-target site. Off-Target mutations can cause undesired phenotypes that could be misattributed to the gene modification of interest. Analyzing predicted Off-Target sites is vital to assessing the risk of mutations harbored by your new model before you begin using it in your studies.

**Taconic Biosciences provides an advanced solution to address Off-Target Risk through Next-Generation Sequencing (NGS) of predicted loci:** a multiplexed approach that outperforms traditional Sanger sequencing in both accuracy and efficiency.

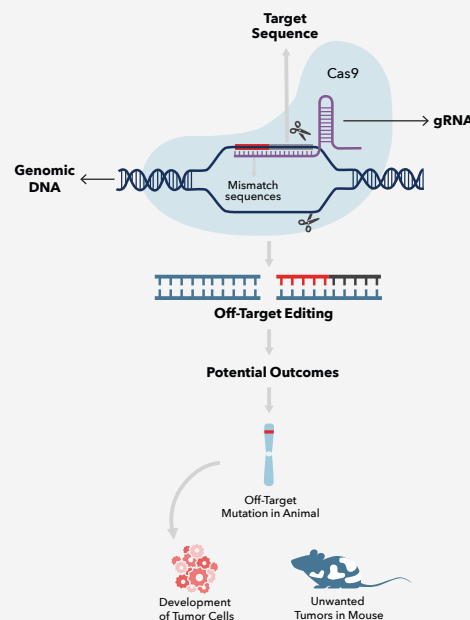
## PREDICTION AND SCREENING OF POTENTIAL OFF-TARGET MUTATIONS

Taconic's custom off-target prediction and curation process is used to select up to 20 genomic loci where unintended gene editing mutations might occur during model generation with CRISPR. Taconic employs NGS to analyze amplicons and screen for indel mutations, which offers a more comprehensive analysis and deeper read coverage of the genome.

Our CRISPR Off-Target Analysis Service features:

Up to six (6) animals screened
Up to 20 potential Off-Targets analyzed
1000x read coverage
Receive back complete sequencing report
Turnaround time of 3-4 weeks

Screen Off-Target gene mutations in custom CRISPR models as part of our ExpressMODEL® CRISPR service or as a quality check for models generated by gene editing prior to initiating colony management programs. Add confidence in the genetic integrity of your *in vivo* model and reduce the risk of potentially confounding phenotypes, securing your model development investment and assuring endpoint data.



- ▶ Phenotypes unrelated to on-target modification
- ▶ Confounding study results
- ▶ Disease or lethality in GEM
- ▶ Wasted time and money

**We provide a wide range of services tailored to meet your research program's needs. Learn how these services can be leveraged to accelerate drug discovery by talking with a Taconic expert today!**

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

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