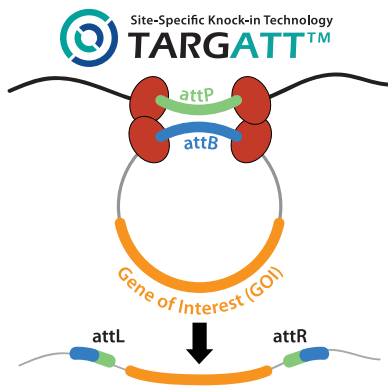




Custom Cell Line and Animal Model Engineering

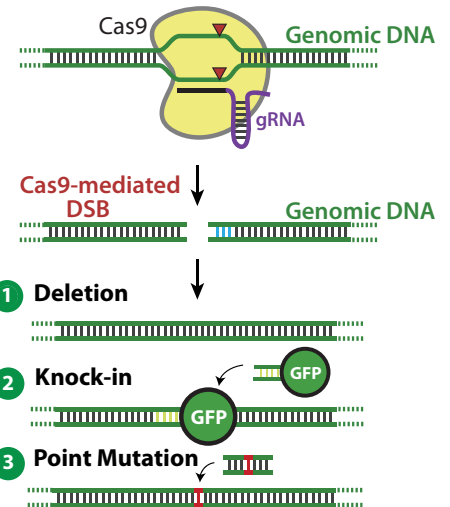
We help accelerate your biomedical research and therapeutic breakthroughs

Leverage our extensive expertise in genome editing (TARGATT™, CRISPR/Cas9 and others) and stem cell technologies to build physiologically relevant animal and cell line models of human diseases and biology.



TARGATT™ Integrase Technology
Site-specific knock-in technology for high efficiency, insertion for large DNA into a safe harbor locus with guaranteed & stable gene expression

CRISPR/Cas9 Technology
Licensed technology from Broad Institute; Multi-approach protocols for high efficiency, high success rate and faster turnaround times.



Custom Cell Line Model Generation Precision Cancer & Blood Lineage Cell Line Models

- > 500 distinct mutations in 100+ parental cell lines
- Choice of heterozygous/ homozygous clones
- Fast turnaround: as little as 3 months
- Wide range of modifications: KO, KI, PM, reporter tags, conditional KO/ expression models

*Custom CRISPR mouse models starting at just \$11,000 USD**



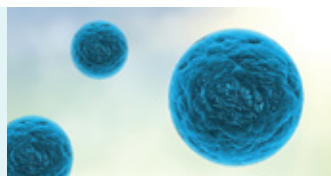
Custom Animal Model Generation Next Generation Mouse and Rat Models

- > 500 unique animal models generated
- Wide range of modifications including cKO, tissue-specific expression, gene overexpression
- Large DNA KI: CRISPR (~ 10 kb); TARGATT™ (~ 22 kb)
- Fast turnaround: in as little as 5 months

*Custom cancer cell line models starting at just \$10,000 USD**

Stem Cell Services (iPSC, ESC) One-Stop Solution for All Your Stem Cell Needs

- **CRISPR/Cas9 iPSC Disease Modeling**
- Engineer normal or patient-derived iPSCs
- Choice of heterozygous/homozygous clones
- Fast turnaround: as little as 3 months



Other Stem Cell Services:
iPSC generation from patient samples
Comprehensive characterization of iPSCs
Lineage-specific differentiation
3D-iPSC culture

Fast-track your research discoveries and breakthroughs with our fully customizable solutions for downstream assays for your cell line and animal models

Assays for Animal Models

- Physiologically relevant animal models
- **In vivo assays:** Functional & phenotype validation; locomotor/ cognitive assessments; pharmacokinetics
- **In vitro assays:** IHC, electrophysiology



Cell-Line Based Assays

- Physiologically relevant disease models
- **Customized projects:** Functional & phenotype validation; viability/ toxicity assays; mitochondrial/hepatic/cardiac assays
- Custom assay development