

RapidGen™ Technology

Your fast lane to 2024
target validation breakthrough

Key Advantages of RapidGen™

Complete early target validation before Q2 of 2024!

- Validate your target or genetic model in 1-2 months.
- Test multiple targets simultaneously.
- Validated model ready for screening 2-3 months from start.
- Save time and resources in your pre-clinical testing.

Your Fast Track to Therapeutic Testing

RapidGen™ 1-2 Month Deliverable



Optimized
CRISPR
sgRNA
Injections



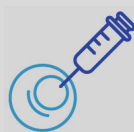
Confirmed phenotype
Target validation
1-2 Months

AND



Capability for compound
screening with an
established model line
within **3 months!**

Standard CRISPR 6+ Month Deliverable



sgRNA
Injections



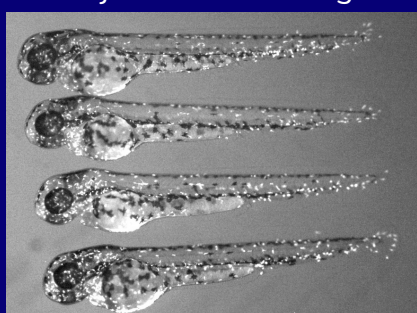
Growth, crossing,
screening
6 + Months



**Model ready for
phenotyping
6-9 Months**

RapidGen™ Knockout Phenotype: Visible Within 48 Hours Post-Injection

Uninjected WT sibling



Macrophages labeled with GFP

RapidGen™ *irf-8* Model



Loss of macrophage proliferation
with *irf-8* knockout

How Does RapidGen™ Work?

- We use a novel CRISPR approach to break a gene or functional domain at multiple sites.
- The result is a high frequency (>80%) of edits in the injected population, creating an F0 generation knockout.
- Phenotypes can be assayed in as little as 5 days after injection, allowing immediate recovery of viable target hits.
- Edits are permanent so desirable models may be retained as a stable line, so no time is lost!