Services

- Custom Research & Development +
- Custom Production +
- Custom Formulation & Conjugation +
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- Analytical Testing & Quality Control +
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  - CRISPR assisted Cell Line Development +
  - CRISPR related Delivery Agent Construction +
  - CRISPR based Screening Solutions -
    - Genome-Wide CRISPR Screening
    - CRISPRa Screening
    - CRISPRi Screening
    - Single-Cell CRISPR Screening
    - Custom CRISPR Screening
  - Disease Modeling related Gene Editing
  - Library Design through CRISPR
  - Nuclease Activity Measurement

Custom CRISPR Screening Service

Introduction of Custom CRISPR Screening Service | Customizable Options of Our | Inquiry Now

We understand that each research project is unique—scientists often have specific hypotheses, experimental conditions, or target gene sets that may not align with standard screening protocols. Our custom CRISPR screening service is designed to offer the flexibility needed to accommodate diverse scientific goals, whether you're focusing on a particular pathway, cell type, perturbation method (CRISPRko, CRISPRa, or CRISPRi), or phenotypic readout. With strong technical support and an experienced team, **Creative Biolabs** is committed to delivering high-quality custom CRISPR screening solutions that accelerate discovery and innovation.

Introduction of Custom CRISPR Screening Service

Custom CRISPR Screening Service refers to a fully tailored gene perturbation solution that adapts the entire screening workflow to meet the specific needs of a research project. Unlike standardized, off-the-shelf screens, custom CRISPR screening allows researchers to design experiments around unique scientific questions, specialized cell models, or focused gene sets. Customization is especially important because biological research is rarely one-size-fits-all. Scientists often aim to study particular pathways, investigate disease-specific targets, or work with non-standard cell types that require adapted delivery methods or readouts. A custom screening strategy ensures that each step of the workflow is tailored to the specific goals of the project, enabling researchers to perform focused, relevant, and innovative studies. This personalized approach enhances the depth of biological insights and accelerates the discovery of novel targets, underlying mechanisms, and potential therapeutics.

Customizable Options of Our CRISPR Screening Service

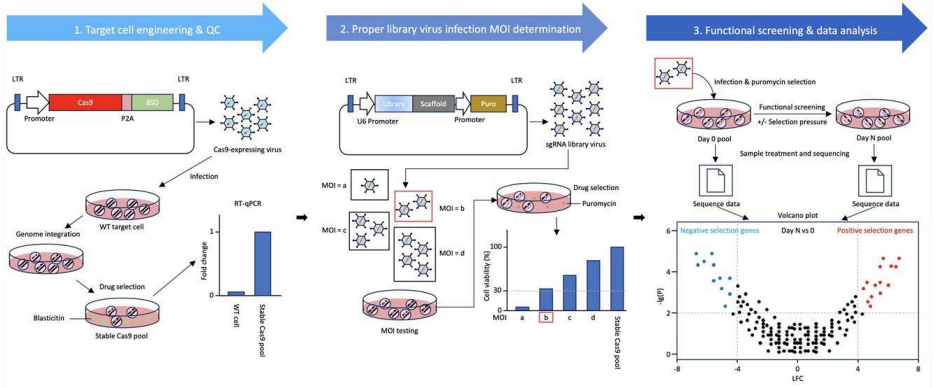

Fig. 1 Standard workflow of our CRISPR screening service (e.g. CRISPRko).

Table. 1 Customizable options for CRISPR screening service.

Stage	Items	Customizable options
1	Adherent cells	• Suspension cells are acceptable
	Cas9-expression virus	• Use transposon system
	Cassettes of transfer plasmid	• Change drug resistant gene • Use the fluorescent reporter protein and enrich cells via FACS • Change screening strategy (CRISPRko, CRISPRa, or CRISPRi)
	Drug selection	• Enrich cells via FACS if fluorescent protein is used
	QC of stable Cas9 pool	• Detect the Cas9 (and regulatory elements) expression via WB
	...	...
2	Genome-wide sgRNA library	• Choose your interested commercial sgRNA library • Use sub-library or custom library containing interested genes
	Cassettes of transfer plasmid	• Change drug resistant gene

		• Use the fluorescent reporter protein and enrich cells via FACS
	Drug selection	• Calculate gene copy number via qPCR to determine proper MOI • Enrich cells via FACS if fluorescent protein is used
	...	...
3	Drug selection	• Whole cell culture and passage without drug selection
	Timepoints	• Add additional timepoints for tendency analysis
	Selection pressure	• Add your interested compound into the system
	Data analysis	• Custom data analysis to meet your specific research goal
	...	...

How Custom CRISPR Screening Service Can Assist Your Project

A highly customized CRISPR screening service offers the flexibility to align every aspect of the workflow with your specific research goals—whether you're targeting a unique gene set, using specialized cell models, or exploring unconventional readouts. This level of personalization ensures that the screening results are not only scientifically meaningful but also directly relevant to your study. At Creative Biolabs, we go beyond execution—we collaborate closely with you to refine your experimental design, offering professional insights on library selection, vector systems, delivery methods, and data analysis strategies. Our team ensures that your custom screen is both technically sound and strategically optimized.

From concept to final delivery, **Creative Biolabs** is dedicated to producing results that meet your expectations and drive your research forward. Contact us to start building a custom CRISPR screening strategy that is truly tailored to your project needs.

Related Sections

CRISPRa Screening

CRISPRi Screening

Genome-Wide CRISPR Screening

Single-Cell CRISPR Screening

Services

Custom Nucleic Acid Production

Custom GalNAc-siRNA conjugation

Custom Viral Vector Development

siRNA In Vitro Screening

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Recombinant Virus

Antisense Oligonucleotides (ASOs)

Small Interfering RNA (siRNA)

SARS-CoV-2 Research

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