

CRISPR Guide Enrichment Kit

Every edit, every cell.

Our single cell CRISPR Guide Enrichment Kit delivers phenotypic insights at a single cell level by analyzing single cell gene expression patterns from individual CRISPR perturbations. Our high-throughput guide detection technology is designed to work with CROP-style vectors to provide a higher percentage of cells with a guide detected.

Extend your capabilities

To maximize guide detection, our CRISPR Guide Enrichment Kit is designed to be used alongside our Single Cell RNA Sequencing Kit. The Guide Enrichment Kit includes CROP-seq guide specific priming during reverse transcription, as well as PCR enrichment in the final step of library preparation. Whether you are using a Cas9 vector or not, you can choose a guide enrichment kit that fits your experimental needs. The flexible workflow enables processing of up to 500,000 cells instrument-free, and can be further streamlined with automation. Our novel ScalePlex multiplexing technology allows you to easily add additional sample conditions to your perturbations, boosting your high-throughput screening power.

Highlights

Superior Sensitivity

>90% of single cells assigned with a CRISPR guide

Maximum Scalability

Capture up to 500,000 cells with minimal hands-on time and an efficient workflow

Customizable Library Prep

Capture your specific CROP-seq guide using our custom RT design protocol

Streamlined Sample Multiplexing

Run 10s to 1,000s of samples or conditions in a single experiment easily with ScalePlex

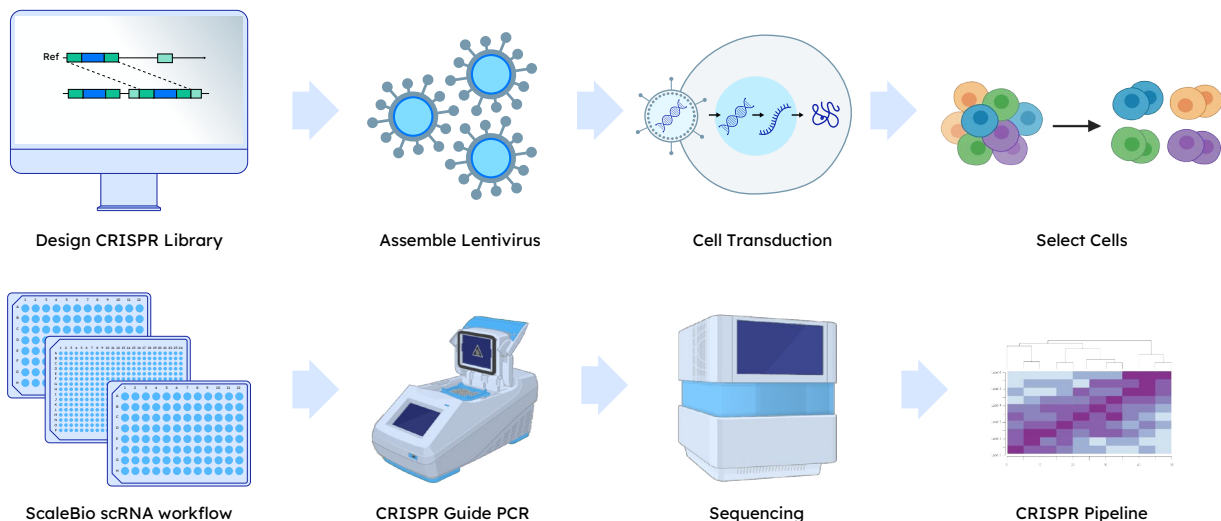


Figure 1. Workflow for single cell CRISPR experiments. The CRISPR Guide Enrichment Kit is designed to be used as part of the Scale Bio Single Cell RNA Sequencing Kit workflow, and includes guide-specific priming during RT and a guide-specific PCR enrichment step. Compatible with Cas9 and non-Cas9 vectors, the Guide Enrichment Kit offers flexibility for your high-throughput single cell screening.

Human A375 cells were used to test guide detection using the custom RT primer in our CRISPR Guide Enrichment Kit and then compared to the use of only polyA priming during reverse transcription. The use of a custom RT primer significantly improves guide detection in single cells, demonstrating higher data quality and lower overall sequencing costs.

When comparing sensitivity using our CRISPR Guide Enrichment Kit versus traditional CROP-Seq polyA detection, a higher percentage of cells are detected with passing guides, particularly as the UMI threshold increases. Additionally, the percentage of guides that meet the UMI threshold increases with the use of the Scale Bio Custom RT Primer.

	% Reads in Enriched Library Containing a Guide	% Cells with a Guide Assigned
Traditional CROP-Seq PolyA Capture	42%	67%
Scale Bio Custom RT Primer (CRISPR Guide Enrichment Kit)	93%	>90%

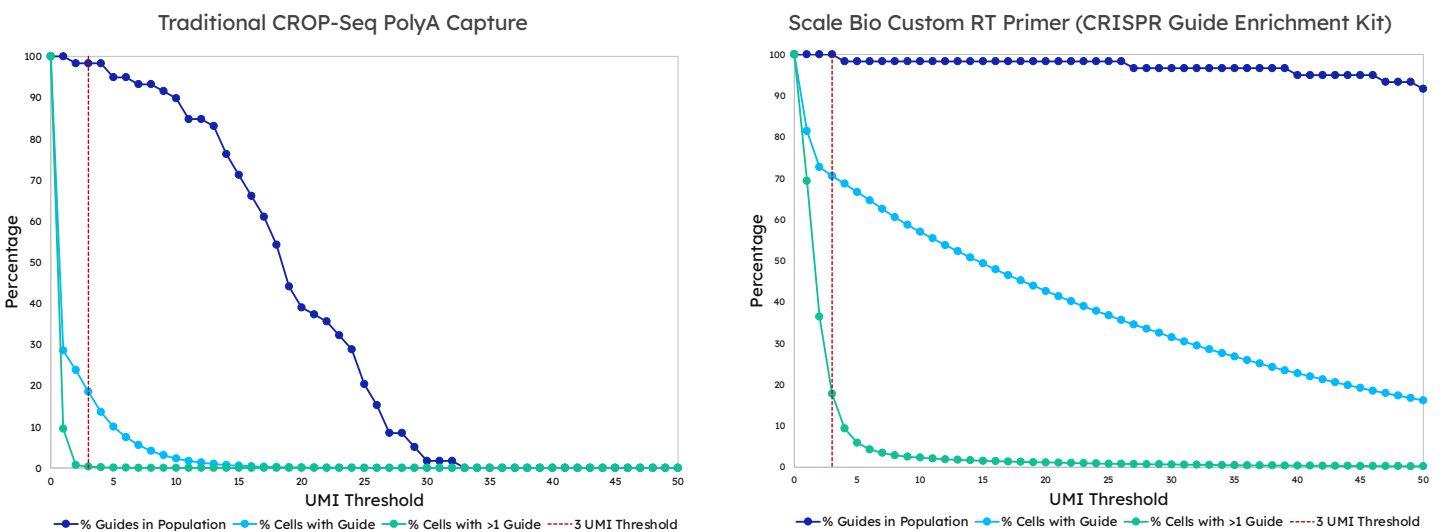


Figure 2. Robust sensitivity for detecting CRISPR guides. Compared to traditional CROP-seq polyA detection, the Scale Bio CRISPR Guide Enrichment Kit demonstrates a higher percentage of cells detected with passing guides.

Product Code	Product Description
955097	ScaleBio™ Cas9 CRISPR Guide Enrichment Kit v1.1
955100	ScaleBio™ CRISPR Guide Enrichment Kit v1.1 (non-Cas9)
945058	ScaleBio™ CRISPR Guide Enrichment Extended Throughput Kit v1.1
1072042	ScaleBio™ ScalePlex Fixation Kit

Learn more about our Single Cell CRISPR Guide Enrichment Kit at: <http://scale.bio/single-cell-crispr-guide-enrichment-kit/>



FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

© 2025 Scale Biosciences
ScaleBio_Single_Cell_CRISPR_Guide_Enrichment_Kit_RevD