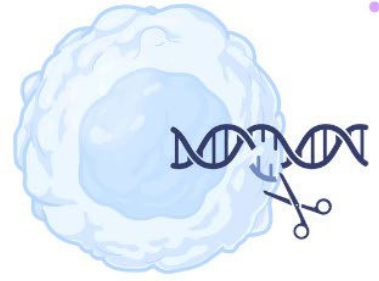


# CRISPR Guide Enrichment Kit



The ScaleBio™ CRISPR Guide Enrichment Kit is modified from our standard ScaleBio Single Cell RNA Sequencing Kit, with the added benefit of capturing a CRISPR guide sequence derived from a CROP-style vector. To maximize guide detection, we have included target-specific priming during reverse transcription, as well as PCR enrichment in the final step of library preparation. This kit enables the processing of up to 500,000 cells or nuclei per run with extended throughput, as well as the multiplexing of up to 96 samples.

## Highlights

### Sensitivity

>90% cells with guide

### Throughput

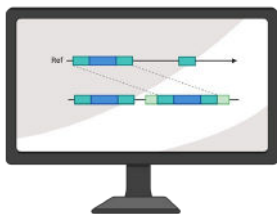
Up to 500,000 cells with extended throughput option

### Sample Throughput

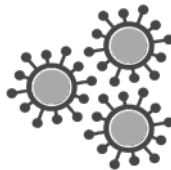
Up to 96 samples per run

The ScaleBio CRISPR Guide Enrichment Kit workflow

### Design CRISPR Library



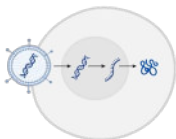
### Assemble Lentivirus



### Select Cells



### Cell Transduction



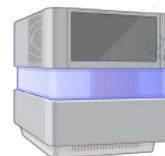
### ScaleBio scRNA workflow



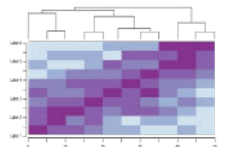
### CRISPR Guide PCR



### Sequencing



### CRISPR Pipeline

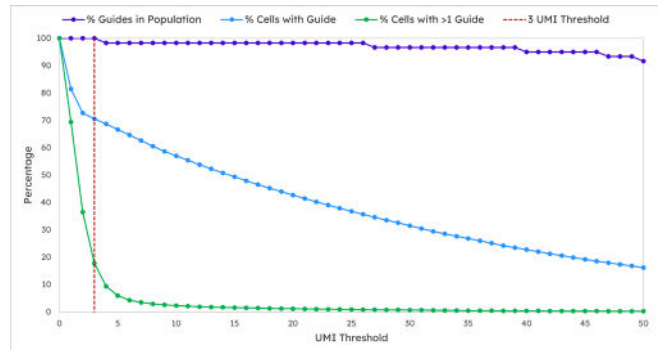
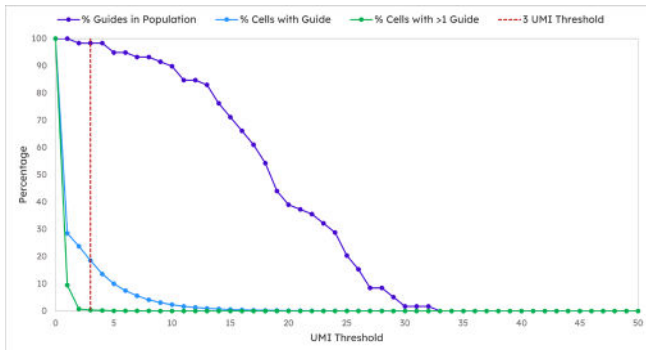




	Reads containing a real guide (guide library)	Cells with guide
<b>PolyA primer (Traditional CROPseq)</b>	<b>42%</b>	<b>67%</b>
<b>ScaleBio CRISPR Guide Enrichment Kit</b>	<b>93%</b>	<b>&gt;90%</b>

Human A375 cells were used to test guide detection using only PolyA priming during reverse transcription vs. using the custom RT primer in the ScaleBio CRISPR Guide Enrichment Kit. The use of a custom RT primer significantly improves guide detection and thereby enables lower overall sequencing costs.

When comparing guide detection rates ( $\geq 3$  UMIs per guide) using a traditional CROP-seq primer, a higher percentage of guides are detected both at the population level as well as in the percentage of cells with an identified guide with the ScaleBio CRISPR Guide Enrichment Kit.



To find out more visit:  
[www.scale.bio/single-cell-crispr-guide-enrichment-kit/](http://www.scale.bio/single-cell-crispr-guide-enrichment-kit/)

