Ultra-fast DNA sequence quantification for genetic engineering

Accelerate your CRISPR workflows by quantifying editing outcomes in 20 minutes

QUiCKR, Inc. provides reagent kits and a cloud-based platform to quantify any DNA sequence with NGS-level accuracy in just 20 minutes. Assays are pre-plated in 384 well plates, and measurements can be performed on a standard fluorescent reader or qPCR machine.

QUiCKR technology uses a non-PCR-based reaction to eliminate potential polymerase bias, and is suitable for quantifying editing outcomes, copy numbers, or genomic titers. The protocol is easy to automate, with only 5 minutes hands-on time, and can be combined with INTEGRA Biosciences liquid handling solutions to create a powerful and ultra-fast automated workflow.

Choose the ASSIST PLUS pipetting robot for precise, walk-away automation, or the the MINI 96 portable electronic pipette for simultaneous pipetting of 96 wells. Either solution unlocks unmatched speed, scalability and reproducibility for high throughput CRISPR edits analysis.

Advantages over NGS/ddPCR:

- **From sample to result within 20 min**
- **Instant, cloud-based analysis**
- **5 min hands-on time**
- **$10 per sample**
- **400 samples per hour**

Enhance throughput with INTEGRAs liquid handling solutions:

ASSIST PLUS:

- Fully automate workflow set-up
- Increased reproducibility
- Easy and flexible programming

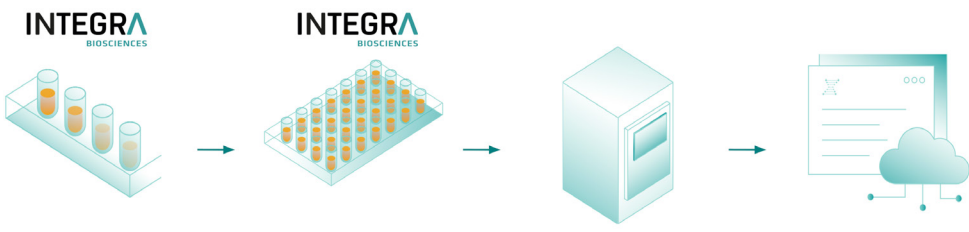
MINI 96:

- Pipette 96 wells simultaneously
- Save time
- Reduce variation

Maximize efficiency with less hands-on time

The ASSIST PLUS and MINI 96 reduce hands-on time for the QUiCKR workflow by up to 75 %.

HANDS-ON TIME	PRECISION VS. NGS	CONSISTENCY
▼ 3X	▲ R^2 ≥0.97	▲ 8 % (PLATE CV)



1. DNA sample dilution — 5 min
2. DNA sample plating — 5 min
3. Incubation and reading — 10 min, 37 °C
4. Data upload — Immediate results

20-min Workflow

QUiCKR INTEGRA

Easy CRISPR characterization. Effortless automation. Consistent data.

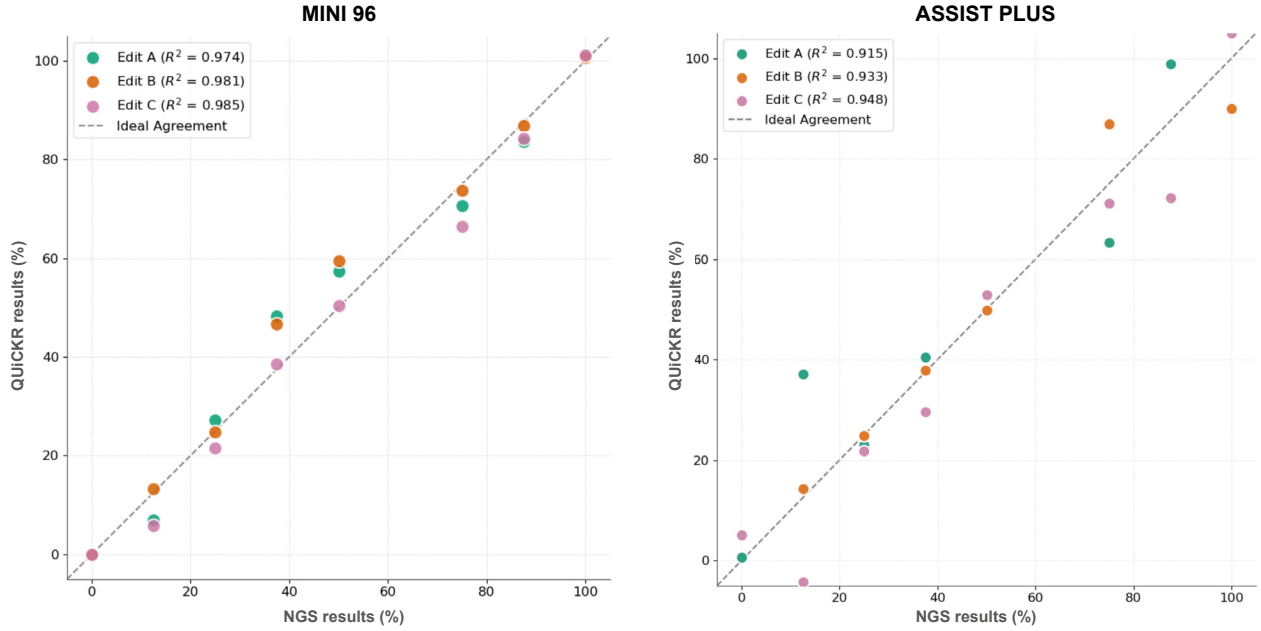


Figure 1. R^2 fit between CRISPR/Cas9 cell line edits using QUiCKR workflow and gold standard NGS workflow using the MINI 96 (left) and ASSIST PLUS (right) (n=3).

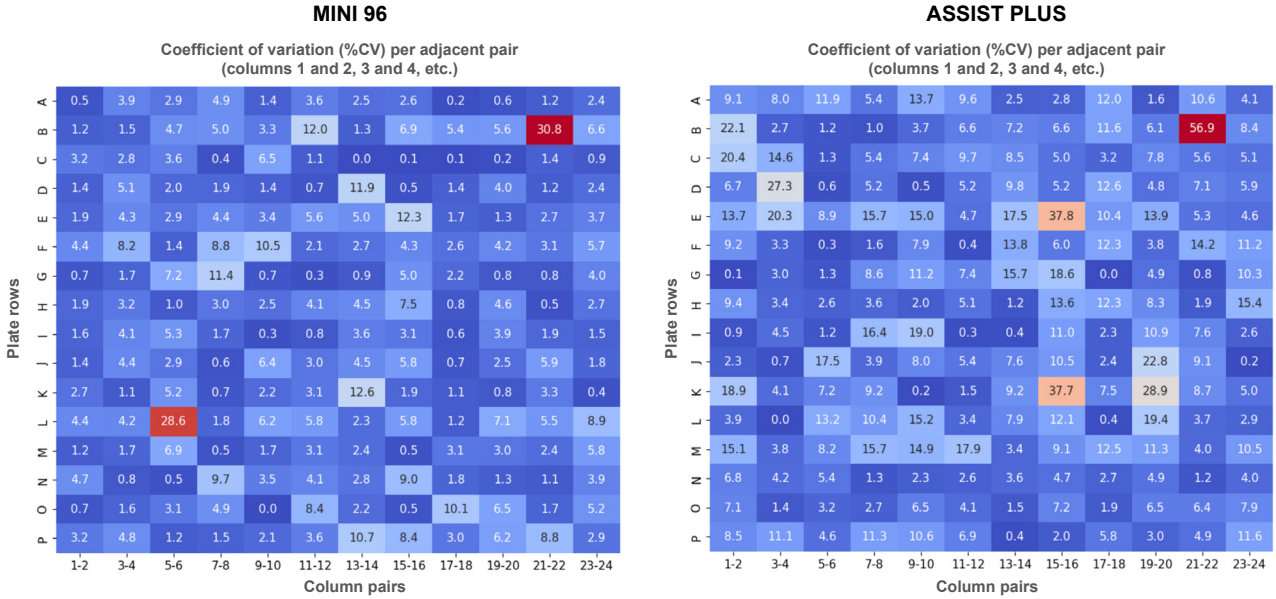


Figure 2. Variation within 384 well plates (%CV) when performing the QUiCKR workflow with the MINI 96 (left) and ASSIST PLUS (right).

INTEGRA

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