

Certificate of analysis

Description

Library name: PRCISR™ CRISPR single-targeting ubiquitin-proteasome system (UPS) CRISPRko library

Product number: LPF103

Lot number: 11110

Quality control steps

- Sanger sequencing of sgRNA cassette
- Full-plasmid sequencing of the final library
- Restriction digest of library on agarose gel
- NGS sequencing

Key statistics

Plasmid size: 8,304 bp

sgRNA representation: 3,416 of 3,416 sgRNAs, 100% complete

Skew (90/10): 2.41

Sanger sequencing

Insertion of the sgRNA cassette was confirmed by Sanger sequencing.

Full plasmid sequencing

Full plasmid sequencing confirmed the backbone sequence and a plasmid size of 8,304 base pairs.

Restriction digest

The restriction digest shows the addition of the library in the PacI site (hU6 promoter), removing the site.

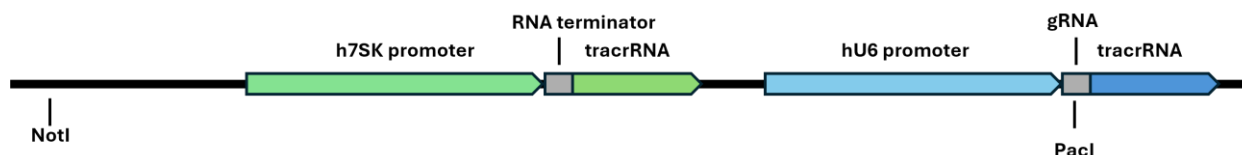
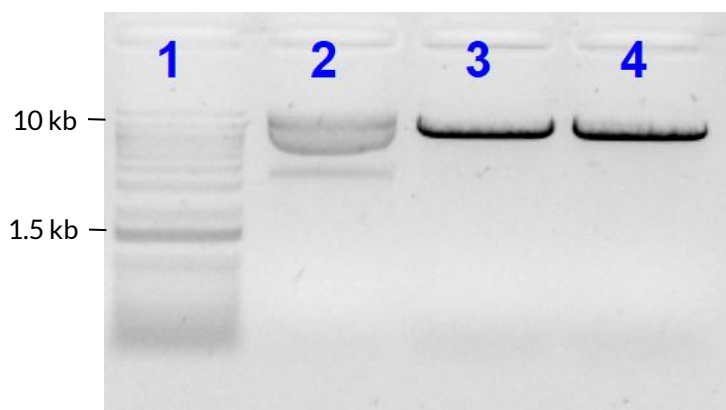


Figure 1. Single-targeting backbone.



Figure 2. Single-targeting library, hU6 promoter.



Legend

1. 1kb+ ladder
2. Undigested
3. NotI
4. NotI and PacI

Figure 3. Restriction digest of the final library.

NGS sequencing

The library has been sequenced with an Illumina MiSeq sequencer at >250x coverage:

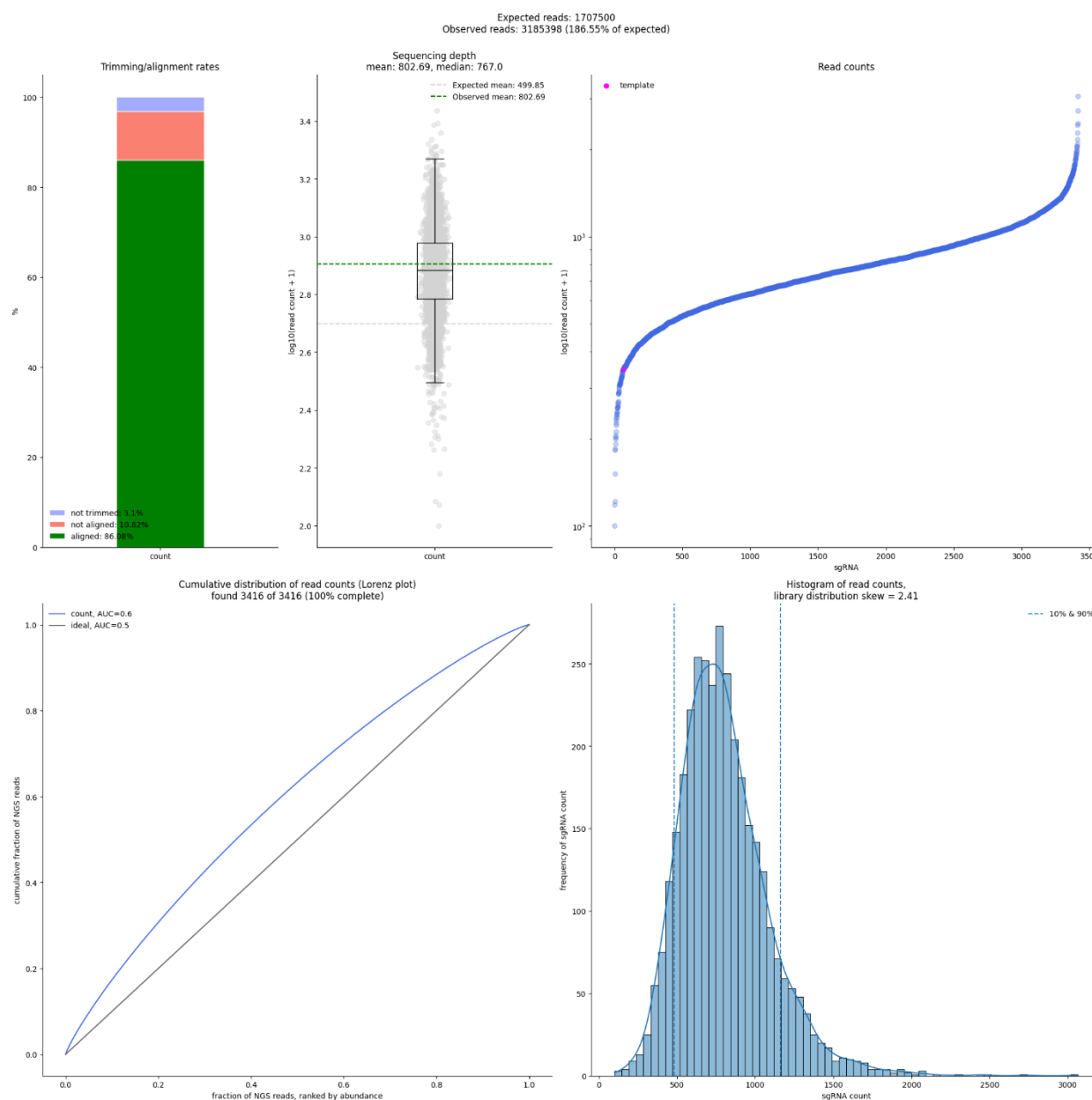


Figure 4. Quality control of sequencing data. Sequencing depth, read counts, and library distribution results.

The contents of this product have been tested according to the above specifications and met all quality control standards.

A handwritten signature in black ink, appearing to read "M. Wegner".

Martin Wegner, Head of R&D and Customer Solutions

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