

Synthetic Guide RNA for CRISPR Genome Engineering

CRISPRevolution takes CRISPR genome editing to the next level with optimized guide RNA, high purity, accuracy and fast turn-around times at an unbeatable price.

Up to 90%
Editing Efficiency

CRISPRevolution optimized guide RNA enables gene editing and knockout of up to 90% efficiency in cells.

4X Faster Transfection
Readiness

Transfection readiness time reduced from weeks down to days - up to 4X faster compared to plasmid.

80% Lower Cost
Solution

Up to 80% lower cost compared to similar synthetic alternatives, and ships in 3 to 5 days.

EZ RNA Kit

Available in both crRNA:tracrRNA and sgRNA formats, the EZ RNA Kit is optimized for *S. pyogenes* Cas9 and designed for simple, accurate gene edits at a low cost.

- CRISPR/Cas9 Genome Editing
- User defined 17-20nt crRNA target sequence
- sgRNA and crRNA:tracrRNA formats
- 3 to 5 days to transfection readiness

Custom RNA

CRISPRevolution Custom RNA is tailored to how you want to do your research: Cpf1, C2c2, *S. aureus* Cas9, CRISPRi or any novel nuclease. Or to alter the secondary structure of your tracrRNA.

- Fully customizable solution
- Custom 10-100nt RNA at economical pricing
- Enables CRISPR/Cas9, Cpf1, c2C2
- sgRNA and crRNA:tracrRNA formats

Screening Libraries

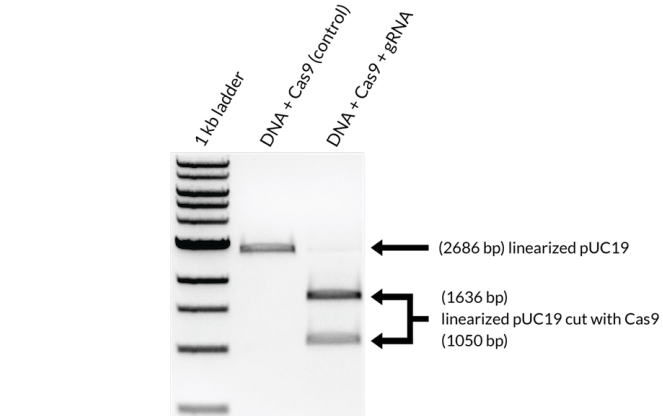
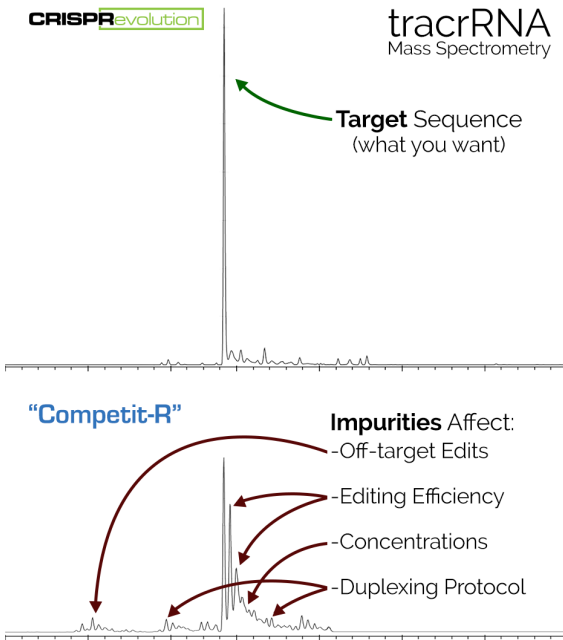
Synthego's high quality, ready-to-go CRISPRevolution Screening Libraries make CRISPR screening accessible to all researchers with industry-leading, up-front pricing.

- Pre-designed, ready-to-use
- Optimized tracrRNA
- Multiple targets per gene
- Human, drosophila, mouse models



When Speed and Accuracy Count

Previous generations of cloning guide RNA into CRISPR/Cas9, Cpf1 plasmids can add weeks of delays to an extended workflow, and IVT can be complex and costly. Synthetic RNA, however, is faster, cheaper and more accurate over plasmid-based and IVT techniques.



CRISPR/Cas9 cleavage assay. Linearized plasmid DNA was cut with *S. pyogenes* Cas9 duplexed with guide RNA (gRNA). The gRNA targeted a unique 20 nucleotide protospacer within the plasmid and was formed by annealing Synthego CRISPR evolution EZcrRNA and tracrRNA. Target DNA was cut with 95.8% efficiency.

Trusted by Scientists

Customers around the globe depend on Synthego products for CRISPR genome engineering and research. Synthego is collaborating with many of the top life sciences universities to conduct CRISPR research in applications such as human stem cells, adherent cell lines and mouse embryos.



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