

Alt-R™ CRISPR SYSTEM

A COMPLETE WORKFLOW FOR CRISPR GENOME EDITING RESEARCH



Alt-R guide RNAs & tools

Guaranteed editing with predesigned chemically modified gRNAs*

Alt-R Predesigned Cas9

crRNA Selection Tool

Alt-R Custom Cas9 crRNA Design Tool

CRISPR-Cas9 Design Checker

Predesigned guides
Custom designs
Design checking

Alt-R CRISPR-Cas9 guide RNAs

2-part (crRNA and tracrRNA)
2-part XT (crRNA XT and tracrRNA)
sgRNA (single guide RNA)

Alt-R CRISPR-Cas12a crRNAs

A.s. Cas12a and L.b. Cas12a crRNAs

Alt-R CRISPR Custom Guide RNAs



Alt-R CRISPR proteins

Optimal editing with high on-target potency and reduced off-target activity

WT Cas9 nuclease (with or without glycerol)
HiFi Cas9 nuclease • Cas9 nickases • dCas9
Cas12a (Cpf1) nuclease • WT Cas9-GFP nuclease
A.s. Cas12a (Cpf1) Ultra nuclease
L.b. Cas12a Ultra nuclease



Alt-R enhancers & controls

Efficient delivery; optimized experiments

Cas9 Electroporation Enhancer and controls
Cas12a Electroporation Enhancer and controls
Alt-R HDR Enhancer V2



Alt-R HDR Design Tool & Templates

High HDR rates with modified HDR Donor Oligos

Alt-R HDR Design Tool
HDR Donor Oligo design
Custom HDR Donor Oligo ordering
Megamer™ ssDNA Fragments
gBlocks™ Gene Fragments



Analysis tools

Simple, fast, T7EI-based assay
Alt-R Genome Editing Detection Kit
Multiplexed amplicon sequencing for Illumina® NGS platforms
rhAmpSeq™ CRISPR Analysis System



CUSTOM CRISPR SOLUTIONS

Don't see what you're looking for? We are continually expanding our CRISPR product line, and we may have what you need. If you are interested in custom libraries, other CRISPR enzymes, formulations, or other CRISPR tools, email our CRISPR experts today to discuss customized solutions for your research: CRISPR@idtdna.com.

> FOR MORE INFORMATION, VISIT WWW.IDTDNA.COM/CRISPR.

* We guarantee that predesigned Alt-R CRISPR-Cas9 guide RNAs will provide successful editing at the target site, when delivered as a ribonucleoprotein complex as described in the Alt-R User Guides, using Alt-R CRISPR-Cas9 guide RNAs (crRNA:tracrRNA duplex or sgRNA) and either Alt-R S.p. Cas9 nuclease or Alt-R S.p. HiFi Cas9 nuclease. Analysis of editing must be at the DNA level, such as with the Alt-R Genome Editing Detection Kit or DNA sequencing. If successful editing is not observed for a predesigned guide RNA while an appropriate positive control is successful, a one-time "no-cost" replacement of the predesigned Alt-R CRISPR-Cas9 guide RNA will be approved, upon discussion with our Scientific Applications Support team (applicationsupport@idtdna.com). This guarantee does not extend to any replacement product, or to any other incurred or incidental costs or expenses.

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