

CRISPR nucleases:

Recombinant, high-purity Cas9 and Cas12a (Cpf1) endonucleases for genome editing experiments.

Oligo modifications:

Unmatched wide variety of modifications can be incorporated at OR after the time of synthesis.

CRISPR custom guide RNAs:

Custom guide RNAs ideal for prime editing (pegRNA) projects, CRISPR-Cas13 applications, and most alternative CRISPR-Cas systems.

GMP oligos:

Customized products and services to meet the rigorous quality requirements for clinical and molecular diagnostic applications.

Custom DNA oligos:

Single-stranded and duplexed DNA sequences, manufactured to your specifications.

Custom gene synthesis:

Complete synthetic genes with 100% sequence verification are provided in a plasmid cloning vector and ready to use in a variety of applications.

Inventoried oligos:

Stocked oligonucleotides for sample preparation, sequencing, and gene expression analysis quality controlled by mass spectrometry and capillary electrophoresis.

Genome editing detection:

T7 endonuclease I (T7EI) mismatch cleavage assay for detection of on-target editing, known off-target events, and estimation of genome editing efficiency in cultured cells.



Customized services to enhance the purity, QC, formulation, or other specifications of select standard product offerings.

IDT™
INTEGRATED DNA TECHNOLOGIES



The company strives to achieve this by improving nucleic acid synthesis technology and developing new applications for the use of DNA- and RNA-based compounds. IDT's advanced synthesis group combines expertise in chemistry, molecular biology, and engineering to produce and purify complex nucleic acids of all kinds.

TO KNOW MORE, CALL US

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Product Category

DNA/RNA oligos

Custom DNA/RNA oligos
Ultramer DNA/RNA oligos
Oligo modifications
Antisense oligos

Primers and Probes

Custom Probes
Custom primers
Genotyping
Mutation detection
miRNA inhibitors

xGen™ Next Generation Sequencing

Library Preparation
Hybridization Capture
Amplicon Sequencing
Library Normalization
Custom/ Pre designed Hyb Panels

CRISPR Genome Editing

CRISPR-Cas9
CRISPR-Cas12a (Cpf1)
Custom guide RNAs

Why IDT

- Manage cost per reaction with affordable pricing.
- Meet your assay needs with flexible probe and primer configurations.
- Complete confidence in oligos that are verified by ESI-mass spectrometry.
- Unrivaled control of oligo specifications with custom formulation.
- Benefit from the latest improvements in on- and off-target design and chemical modifications, as well as easy Ordering of custom or pre-designed guide RNAs.
- Precisely-controlled editing with efficient delivery of the RNP by lipofection or electroporation.
- Ligation-based and PCR-based indexing solutions.
- Comprehensive offering of high purity adapters and primers.
- Generate the highest level of performance with greater than 99.5% call accuracy for over 90% of assays tested.
- Validate markers affordably using the smallest pack size commercially available.
- Ensure confidence in your data with gBlocks Gene Fragments as control templates.
- Purified oligos up to 60 bases with a purity guarantee receive QC by capillary electrophoresis (CE).
- Offer dual HPLC purification or dual PAGE and HPLC for applications that demand the utmost in oligo purity.



IDT is well known for its wide range of online tools, helping scientists to reliably design and plan experiments that employ oligos, NGS, CRISPR, genotyping, qPCR, and gene fragments.

CRISPR genome editing

Guide RNA	
(I) Genome editing with CRISPR-Cas9	
CRISPR-Cas9 gRNA	
Guide RNAs (gRNAs) contain the target-specific sequence for guiding Cas9 protein to a genomic location. We offer 3 gRNA formats: crRNA:tracrRNA duplex, crRNA XT:tracrRNA duplex, and single guide RNA (sgRNA).	
(I) CRISPR-Cas9 crRNA	
Products	Alt-R® CRISPR-Cas9 crRNA, 2 nmol Alt-R® CRISPR-Cas9 crRNA, 10 nmol Alt-R® CRISPR-Cas9 crRNA, 2 nmol, Plate Alt-R® CRISPR-Cas9 crRNA, 10 nmol, Plate Alt-R® CRISPR-Cas9 crRNA, 50 nmol Alt-R® CRISPR-Cas9 crRNA, 100 nmol
(II) CRISPR-Cas9 crRNA XT	
Products	Alt-R® CRISPR-Cas9 crRNA XT, 2 nmol Alt-R® CRISPR-Cas9 crRNA XT, 10 nmol Alt-R® CRISPR-Cas9 crRNA XT, 2 nmol, Plate Alt-R® CRISPR-Cas9 crRNA XT, 10 nmol, Plate
(III) CRISPR-Cas9 sgRNA	
Products	Alt-R® CRISPR-Cas9 sgRNA, 2 nmol Alt-R® CRISPR-Cas9 sgRNA, 10 nmol Alt-R® CRISPR-Cas9 sgRNA, 50 nmol Alt-R® CRISPR-Cas9 sgRNA, 100 nmol Custom Alt-R® CRISPR sgRNA
(II) CRISPR-Cas12a (Cpf1) genome editing	
The Alt-R® CRISPR-Cas12a System allows targeting of alternative sites that are not available to the CRISPR-Cas9 System and produces a staggered cut with a 5' overhang.	
(I) CRISPR-Cas12a crRNA	
Products	Alt-R® A.s. Cas12a crRNA, 2 nmol Alt-R® A.s. Cas12a crRNA, 10 nmol Alt-R® L.b. Cas12a crRNA, 2 nmol Alt-R® L.b. Cas12a crRNA, 10 nmol Alt-R® A.s. Cas12a crRNA, 2 nmol, Plate Alt-R® A.s. Cas12a crRNA, 10 nmol, Plate Alt-R® L.b. Cas12a crRNA, 10 nmol, Plate Alt-R® L.b. Cas12a crRNA, 2 nmol, Plate

Quick, accurate, comes with labels and all calculations.

Customisation from IDT

CRISPR Custom Guide RNAs	
Offer chemically synthesized and modified custom guide RNAs for common as well as exotic research applications. Alt-R® Custom Guide RNAs are ideal for prime editing (pegRNA) projects, CRISPR-Cas13 applications, and most alternative CRISPR-Cas systems.	
Products	Guide RNA length 30 – 59 bases Guide RNA length 60 – 79 bases Guide RNA length 80 – 109 bases Guide RNA length 110 – 150 bases
Custom gene synthesis	
Complete synthetic genes with 100% sequence verification are provided in a plasmid cloning vector and ready to use in a variety of applications.	
Products	MiniGene 25-500 bp Gene 501-1500 bp Gene 1501-3000 bp Gene 3001-5000 bp Gene 5001+ bp
Custom qPCR probes	
Designed and production quality Para mounted to minimize robust signal -to-noise performance. HPLC purified to ensure removal of free residual dye and truncated synthesis products.	
Offers	PrimeTime qPCR Probes Affinity Plus qPCR Probes PrimeTime LNA® qPCR Probes Molecular beacon probes MGB (minor groove binder) Eclipse® Probes Other probes manufactured to GMP standards
Custom primers	
The accuracy of design and synthesis of a primer pair is the most important consideration to generate good PCR performance data. Poor design choices, erroneous or truncated sequences, and ineffective purification can lead to unusable results.	
Offers	rhPCR primers (for RNase H-dependent PCR) RmiReady® Primer Pools GMP and OEM services Modifications Design tools

