

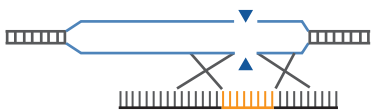
Non-viral HDR Templates

Efficient and Precise knock-in with minimal toxicity

GenScript offers **multiple proven non-viral HDR template solutions** for safe and efficient gene insertion. Our DNA payload synthesis options can accommodate nearly any insert sequence, from SNPs to long inserts up to 20 kb – **providing greater project flexibility.**

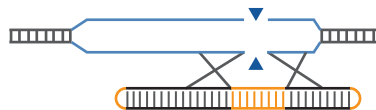
GenExact™ Linear ssDNA

Lowest cytotoxicity for
highest efficiency



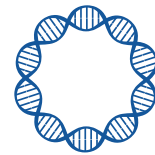
GenWand™ Linear dsDNA

Closed-end design for
long gene KI at scale



GenCircle™ dsDNA

Miniaturized circular template
with no resistance gene



APPLICATIONS

- T Cell Therapy
- Animal Models

- Long-gene Knock-in
- Screening and Scale-up

- Ideal Replacement for Plasmid HDR Templates




ADVANTAGES

- Minimal Cytotoxicity
- Precise Knock-in with Minimal Off-target Effects

- More Suitable for Scale-up
- Covalently Closed Ends Improve Accuracy

- 429 bp Backbone
- Absence of Antibiotic Resistance Gene Avoids Regulatory Concerns

Service Specifications

	GenExact™ Linear ssDNA	GenWand™ Linear dsDNA	GenCircle™ dsDNA
Insert Sequence Size	200* nt – 6,000 nt	2-10 kb	1-20 kb
Batch Scale	µg to mg	µg to mg	µg to g
cGMP			
Delivery	6 weeks	6 weeks	11 Days

*We also offer <200 nt ssDNA through our DNA Oligo Synthesis Service.

RUO to cGMP

	RUO	INDEdit	cGMP
Production Site	RUO Site	cGMP Site	cGMP Site
Application/ Purpose	Discovery & Development	Preclinical Research to IND-enabling Studies	Phase I, II, III & Commercial
Quality Management System (QMS)	ISO 9001	cGMP-compliant (Simplified)	cGMP-compliant
Batch Record	x	√	√
Analytical Method Qualification/ Validation	Not Required	Not Required (Platform Standards)	Validated
QC Tests	Basic	Basic + Advanced	Basic + Advanced + Premium
QA Release	Yes	Yes	Yes
Delivered Documentation	1.Cert. of Analysis (CoA) 2.TSE/BSE Statement	1.Cert. of Analysis (CoA) 2.TSE/BSE Statement	1.Cert. of Analysis (CoA) 2.TSE/BSE Statement 3.Cert. of Compliance (CoC)

Note: Engineering Run service also available upon request



Design and order online

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