

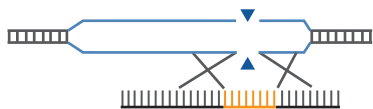
Non-viral HDR Templates

For 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 50kb – **providing greater project flexibility.**

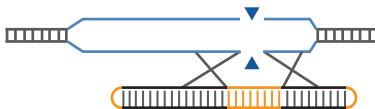
GenExact™ Linear ssDNA

Lowest cytotoxicity for highest efficiency



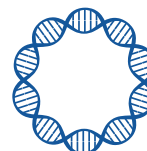
GenWand™ Linear dsDNA

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



Covalently Closed Ends Improve Accuracy



More Suitable for Scale-up



429 bp Backbone



No Antibiotic Resistance Gene Avoids Regulatory Concerns

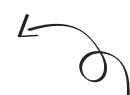
Service Specifications

	GenExact™ Linear ssDNA	GenWand™ Linear dsDNA	GenCircle™ dsDNA
Insert Sequence Size	150 nt – 5 kb	2-10 kb	1-50 kb
Batch Scale	µg to mg	µg to mg	µg to g
cGMP	✓	✓	Coming Soon
Delivery	6 weeks	6 weeks	11 Days

Linear DNA Templates

Available in RUO to cGMP Grade, Supporting Non-viral Gene and Cell Therapy Development through IND Filing and Clinical Trials.

	RUO	GMP-like	cGMP
Analytical Methods	Suitability Verified	Qualified	Validated
Documentation	CofA	Customizable	Full GMP
Facility	Controlled, Unclassified	Classified upon request	Grade C+A (Isolator) sterile product capability
Materials	Traceable vendor management	Traceable vendor management	Traceable vendor management + ID testing



www.genscript.com/DNA-templates