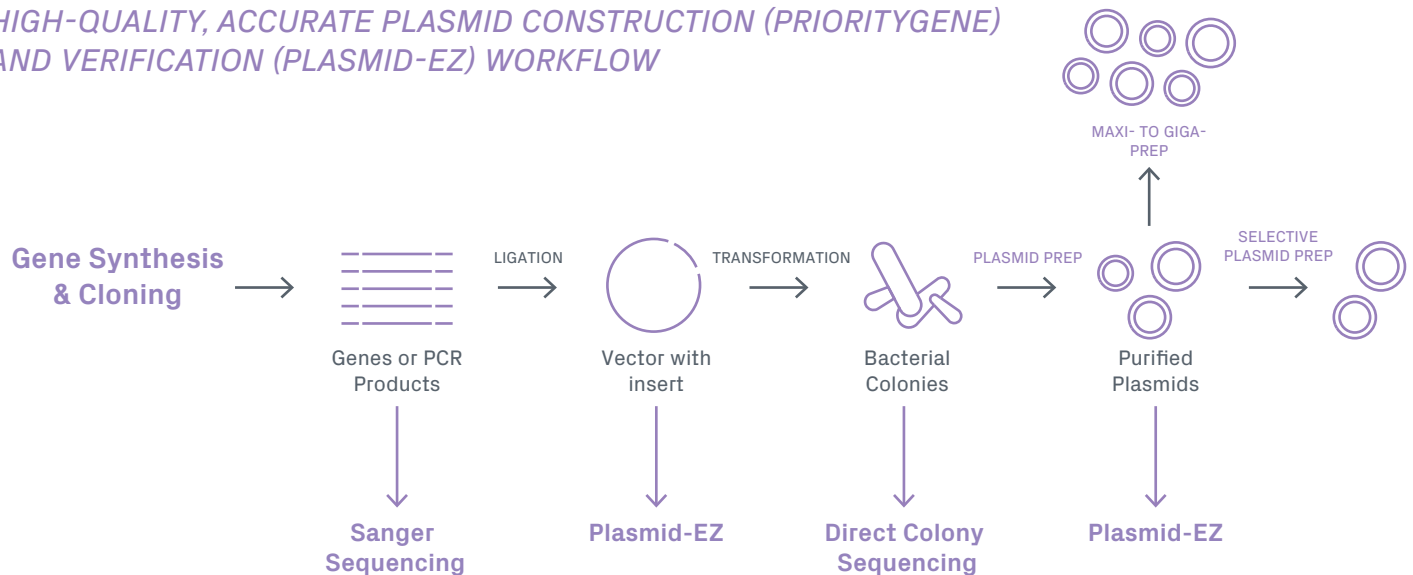


Gene Synthesis and Whole Plasmid Sequencing

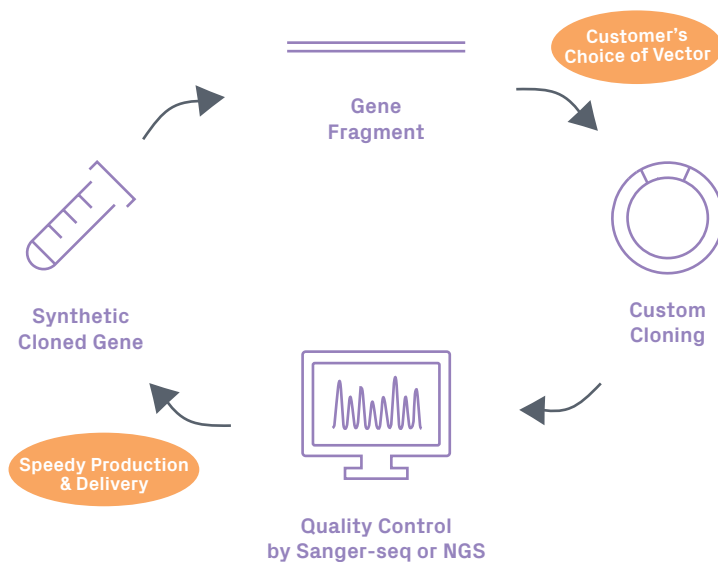


Streamline plasmid construction and verification

HIGH-QUALITY, ACCURATE PLASMID CONSTRUCTION (PRIORITYGENE) AND VERIFICATION (PLASMID-EZ) WORKFLOW

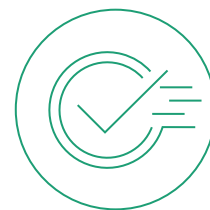


- **Gene synthesis & cloning:** develop or replicate high-efficiency plasmids with your gene of choice
- **Plasmid preparation:** prepare high-quality plasmids from microgram- to gram-scale
- **Plasmid-EZ:** validate whole plasmids using long-read NGS with results delivered the same day in selected regions or starting from 3 business days.



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Plasmid-EZ



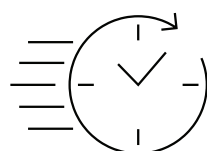
Whole plasmid sequencing made easy

Validating plasmids is critical to ensure the integrity of coding regions for accurate gene expression. Traditional methods often fall short, missing structural changes and requiring manual reconstruction of the plasmid map. Now, with Oxford Nanopore Technologies' (ONT) long-read sequencing, whole plasmid sequencing is made easier and more reliable. Through GENEWIZ Multiomics & Synthesis Solutions from Azenta Life Sciences, our Plasmid-EZ service leverages this advanced technology to deliver full-length, high-throughput, and highly accurate verification of plasmid integrity and fidelity—with results available as quickly as the same day in selected regions or starting from 3 business days.

Metric	Sanger Sequencing	Plasmid-EZ	NGS
Starting Material	Plasmid DNA	Plasmid DNA or Bacteria*	Plasmid DNA
Region Sequenced	Targeted Regions	Full-Length Plasmid	Full-Length Plasmid
Cost	\$	\$\$	\$\$\$
Read Quality	+++	++	++++
Read Length	++	++++	+ /++++
Automatic Assembly	-	✓	✓
Gene Annotations	-	✓	✓
Other Requirements	Must provide primers	-	-

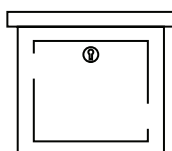
*Accepts bacterial samples as colonies, liquid culture and glycerol stock

Features & Benefits



Rapid Turnaround Time

Same-day results in designated areas or starting from 3 business days



Easily Submit Samples

At any one of our convenient dropbox locations in selected regions



Comprehensive Report

With deliverables such as: FASTQ files; Read-length and quality report; Consensus plasmid assembly; Plasmid annotation files

- High-throughput, plasmid-to-data solution for rapid and interactive construct design

- Low-cost, unbiased coverage for use in selection of complete, valid plasmid candidates

- Chosen provider for all top 30 biopharma



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