

# Sanger Sequencing Services



GENEWIZ Multiomics & Synthesis Solutions from Azenta Life Sciences provides reliable, award-winning Sanger DNA sequencing services to researchers at academic, pharmaceutical, GLP, biotechnology, and government institutions. Industry-leading customer service, high-quality results, and quick turnaround times at competitive prices make GENEWIZ the partner of choice for researchers worldwide.

## Features & Benefits

- **High Quality Data:** We use the latest ABI platforms and provide read lengths in the 750-1000 base pair range.
- **Best Customer Service:** You'll appreciate our customer-friendly repeat policy, with expert customer support.
- **Competitive Pricing:** Enjoy our competitive pricing and volume discounts.
- **Fast and Convenient:** Results are available the following day and by noon on Saturday. Just drop your samples into one of our dropboxes or ship them directly to GENEWIZ.
- **Online Ordering and Data Retrieval:** Available anytime, anywhere, with barcode tracking from start to finish.
- **Time Saving Options:** Sequencing from bacteria or phage, PCR purifications, plasmid prep, primer design, and primer walking services.
- **Best-in-Class Proprietary Protocols:** Experience success with difficult-to-sequence RNAi templates and GC-rich constructs.
- **Save Samples for Plasmid DNA Prep:** Option to indicate on the order form that your eligible samples need to be saved for a future prep order.

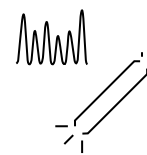
## Template Types



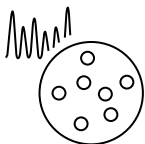
Purified Products:  
Plasmids or PCR  
Products



Difficult Template  
Sequencing



Phage Plaques and  
Supernatants



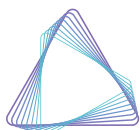
Bacterial Colonies  
and Glycerol Stock



Un-Purified PCR  
Products

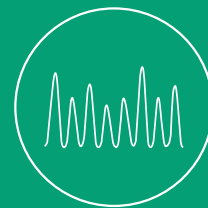


Sanger-EZ

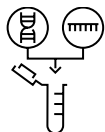


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# Sanger Sequencing Services



## PRE-MIXED SAMPLES

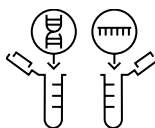


### PLASMID & PURIFIED PCR

You provide your template and your primer mixed in the SAME or SANGER-EZ TUBE.

DNA Type	DNA Length (include vector)	Template Concentration in 10 µl	Template Total Mass	Your Primer Total Picomoles	Pre-Mixed Volume (Template + Your Primer)
Plasmids	<6 kb	~50 ng/µl	~500 ng	25 pmol	15 µl
	6 - 10 kb	~80 ng/µl	~800 ng		
	>10 kb	~100 ng/µl	~1000 ng		
Purified PCR Products	<500 bp	~1 ng/µl	~10 ng	25 pmol	15 µl
	500 - 1000 bp	~2 ng/µl	~20 ng		
	1000 - 2000 bp	~4 ng/µl	~40 ng		
	2000 - 4000 bp	~6 ng/µl	~60 ng		
	>4000 bp	Treat as plasmid	Treat as plasmid		

## PRE-DEFINED SAMPLES



### PLASMID & PURIFIED PCR

You provide your template and your primer in SEPERATE TUBES.

DNA Type	DNA Length	Template Concentration in 10 µl	Template Total Mass	Template Volume Per Reaction	Your Primer Concentration µM (pmol/µl)	Your Primer Volume Per Reaction
Plasmids	<6 kb	~50 ng/µl	~500 ng	10 µl	5 µM	5 µl
	6 - 10 kb	~80 ng/µl	~800 ng			
	>10 kb	~100 ng/µl	~1000 ng			
Purified PCR Products	<500 bp	~1 ng/µl	~10 ng	10 µl	5 µM	5 µl
	500 - 1000 bp	~2 ng/µl	~20 ng			
	1000 - 2000 bp	~4 ng/µl	~40 ng			
	2000 - 4000 bp	~6 ng/µl	~60 ng			
	>4000 bp	Treat as plasmid	Treat as plasmid			

## Bacteria & Phage: Custom Services

Choose the “Custom” service type when sequencing from a bacterial colony, glycerol stock, phage with circular genome (supernatant or plaque), or BAC DNA. For these services, please add one additional day to the turnaround time. For each reaction, provide 5 ul of your primer at 5 pmol/ul (5 uM) in a labeled 1.5 or 0.5 ml tube.

- **Bacterial Colonies:** Submit on an agar plate wrapped in parafilm. Circle and label colonies to be sequenced. When submitting more than one plate, label each with the corresponding order number. When submitting multiple plates with the same order number, make sure the sample name on the submission form clearly corresponds to the labeled plate (e.g. PlateA-Colony1).
- **Glycerol Stocks:** Send in 1.5 ml tubes or in 96-well plates. Samples should be shipped frozen (on dry ice).
- **Phage Supernatant:** Submit 50 ul of phage supernatant in 8-strip PCR tubes or 1.5 ml Eppendorf tubes that are clearly labeled with the sample name.
- **Phage Plaque:** Circle and number the plaques you submit for sequencing. For transport, wrap agar plates in parafilm and provide cushion to protect against potential damage.

## Un-Purified PCR: Custom Services

Submit your un-purified PCR products with your primer(s) in separate, well-labeled tubes.

- Include a gel image and the amount loaded on the gel.
- Select “Custom” as our service type and choose “PCR Clean-up” from the Special Request column when submitting your order.
- Please only submit PCR reactions in liquid reaction form; excised gel bands are not accepted for enzymatic clean-up.
- GENEWIZ will perform the PCR clean-up and then optimize the sequencing based on your gel image.



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