Genewiz Unpurified PCR Product Submission Protocol

To prepare samples for DNA sequencing, please follow these easy steps:

1. For orders with <48 samples, please use 8-strip PCR tubes to streamline preparation and processing. Label your tubes on the side with your initials and sample number. For orders with ≥48 samples, you can receive a discount by using a 96-well PCR plate and arranging the samples vertically (A1 to H1). See the Tubes and Plates section for more details.
2. Dilute your sequencing primer to 5 µM (pmol/µl) using water. You will need 5 µl for each sequencing reaction. If you want to use a GENEWIZ Universal Primer, we will add it for you at no charge. Remember that only one primer is used in a sequencing reaction. See the Technical Notes section for tips on designing primers for sequencing.
3. For the amount of template needed in each of our DNA Sequencing Services (Pre-Mixed, Pre-Defined, and Custom), please refer to the tables below. Prepare template in 10 µl for each sequencing reaction. Please make dilutions in water or Tris. For best results, do not use Tris-EDTA (TE) because EDTA will inhibit the sequencing reaction.

DNA Type	DNA Length (include vector)	Template Concentration in 10 µl	Template Total Mass (recommended)	Template Volume Per Reaction	Your Primer Concentration µM (pmol/µl)	Your Primer Volume Per Reaction
Plasmids	Any size	Unknown	At least 500 ng	10 µl	5 µM	5 µl
PCR Products*	Any size	Unknown	At least 500 ng	10 µl	5 µM	5 µl

*(US) If you are sending unpurified PCR products, please send the same amount of DNA that is required for purified PCR products (minimum volume of 10 µl).

1. Dilute your sequencing primer to 5 µM (pmol/µl) using water. You will need 1 µl (minimum volume of 10 µl) for each sequencing reaction. If you want to use a GENEWIZ Universal Primer, we will add it for you at no charge. Remember that only one primer is used in a sequencing reaction. See the Technical Notes section for tips on designing primers for sequencing.
2. For the amount of template needed in each of our DNA Sequencing Services (Pre-Mixed, Pre-Defined, and Custom), please refer to the tables below. Prepare template in 10 µl for each sequencing reaction. Please make dilutions in water or Tris. For best results, do not use Tris-EDTA (TE) because EDTA will inhibit the sequencing reaction.

DNA Type	DNA Length (include vector)	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			

All direct shipments should be sent to:

GENEWIZ
Attn: Primer Walking
733 Concord Ave.
Cambridge, MA 02138
USA
617-300-0184

You will need to prepare a gel image and save as a .jpg to upload for the order. If sending multiple products, label each amplicon. on the image.