

Requirements for Submission of Template & Primer:

DNA templates can be sent single-stranded, double stranded or as a PCR product in either tubes or 96-well plates. Minimum quantities required per sample are shown in the table below.

Template	BasePairs	Quantity
ssDNA	n/a	200ng
dsDNA	n/a	1µg
PCR Product	100-200bp	6ng
	200-500bp	20ng
	500-1000bp	40ng
	1000-2000bp	80ng

If specific primers are also being sent, primer concentration should be 10pmol/µl and at a volume of 10µl per sample. The sequence of the specific primer should also be sent.

Plasmid Preparation:

Host Strains. For high quality sequencing from ds-DNA endA⁻ *E-coli* strains must be used such as DH5α, XL-1-blue or JM109. It is preferable to prepare DNA from bacteria in log-phase growth.

Isolating the DNA: Most commercially available spin column kits are suitable. If using Promega Wizard Prep kits please contact GRI-Genomics for more information. DNA should be diluted in water and its integrity checked on an agarose gel. A copy of the gel photo should be included with the order form.

Ideally, the DNA should be transported in a dried down form but hydrated samples will be accepted.

Please note: We charge for sequencing reactions that fail due to variation in DNA supplied (i.e. incorrect quantitation or poor integrity of sample DNA).

PCR Products:

Your PCR protocol and conditions should be included with your order form along with a gel photo showing a single product for your PCR. Sequencing results rely on the purity of amplification. Ideally, PCR products should be purified post-PCR using either spin columns or precipitation.

If you have any questions regarding sample preparation please contact gri-genomics prior to sending us your samples.