

# Required DNA Quantities

These amounts are sufficient for 2 reactions. We MUST have these amounts in order to re-sequence failed reactions due to equipment malfunctions or upon client request.

- Samples should be submitted in sterile water NOT TE.
- We prefer samples in 1.5ml eppendorf tubes, but any size tube is acceptable.
- For DNA > 10kB, we will attempt sequencing using the defaults quantities. If this fails, we would require: 2 ug DNA, 80 pm primer, in 12 ul if you supply custom primer (or 2ug DNA in 6 ul if we supply primer).
- Do not speed-vac DNA to concentrate: do ethanol ppt. You may speed-vac primers.
- Cycle sequencing requires only one primer.

DNA Type	DNA (ng) + Primer (pmoles)		Total Volume (ul)
<b>Plasmid</b>			
Single-stranded DNA	200	30	12
Double-stranded DNA (up to 10 kB)	1000	30	12
<b>PCR Product</b>			
100-200 bp	2-6	30	12
200-500 bp	6-20	30	12
500-1000 bp	10-40	30	12
1000-2000 bp	20-80	30	12
>2000 bp	80-200	30	12

If client supplies DNA and [custom primer](#)

Plasmid	DNA (ng)	Volume (ul)
Single-stranded DNA	200	6
Double-stranded DNA	1000	6

If client supplies DNA and RTSF adds [primer](#)