

## **DNA Sanger Sequencing Full Service**

## **Sample Preparation Guidelines**

- 1. For orders with <24 samples, please use 1.5ml tubes. Label the top lid of your tube with your initials and sample number.
  - For orders >24 samples, please use 8-strip PCR tubes or a labeled
     3730xl-compatible 96 well plate to streamline sample processing.
- 2. Dilute your sequencing primer to 10uM (pmol/µl) using water. You will need 2ul of primer for each sequencing reaction. Select commercial primers are available at no additional charge. Remember that only one primer is used in a sequencing reaction.
- For the amount of DNA template required for DNA Sanger Sequencing Service, please see the table. Please dilute the DNA template to the concentration listed in the table, and submit the required volume to avoid sampleprocessing delays.
- 4. Commercial primers are available upon request. Please indicate in the Sample Submission Form the desired commercial primer for each DNA template.

## **Available Commercial Primers:**

Commercial Primer Name	Sequence (5'-3')
M13F	GTAAAACGACGGCCAGT
M13R	CACACAGGAAACAGCTATGACCAT
Т7	TAATACGACTCACTATAGGG
T7term	GCTAGTTATTGCTCAGCGG
Т3	AATTAACCCTCACTAAAGGGA
SP6	ATTTAGGTGACACTATAG
pGEX-F	CTGGCAAGCCACGTTTGGTG

Commercial Primer Name	Sequence (5'-3')
pGEX-R	GGAGCTGCATGTCAGAGG

## Prepare template and your custom primer according to this table:

DNA Template			Primer		
Туре	Fragment Length	Concentration	Volume Required Per Reaction	Concentration  µM  (pmol/µl)	Volume Per Reaction
Plasmid	> 2,000 bp	100 ng/µl	2 μΙ	10 μΜ	2 μΙ
Purified PCR Products	up to 200 bp	3.0 ng/µl	3 µl	10 μΜ	2 μΙ
	200 - 500 bp	5.0 ng/µl	3 μΙ		
	500 - 1,000 bp	10.0 ng/μl	3 µl		
	>1,000 bp	40.0 ng/μl	3 µl		

For best results, avoid buffers with EDTA, such as TE, which can inhibit the sequencing reaction. Use molecular biology grade water or Tris buffer for dilutions.