

## GENOMICS RESEARCH CORE

**DNA and Primer Submission Instructions**

For each reaction the following should be mixed prior to submission:

- a. If submitting less than 48 samples in 1.5 ml tubes:

X  $\mu$ L of DNA template (determined by the concentration of the template and the table below)

8.0 picomoles of primer (absolute mass not concentration)

Y  $\mu$ L of H<sub>2</sub>O (to bring total volume to 15  $\mu$ L)

15  $\mu$ L total volume

- b. If submitting 48 or more samples in a semi-skirted 200-300  $\mu$ l 96-well PCR plate:

X  $\mu$ L of DNA template (determined by the concentration of the template and the table below)

3.2 picomoles of primer Y  $\mu$ L of H<sub>2</sub>O (to bring total volume to 6  $\mu$ L)

6  $\mu$ L total volume

The table below shows the recommended template quantity based on template size:

Template	Tube submission (final volume 15 $\mu$ L)	Plate submissions (final volume 6 $\mu$ L)
PCR product of:		
100-200 bp	2-6 ng	1-3 ng
200-500 bp	6-20 ng	3-10 ng
500-1000 bp	10-40 ng	5-20 ng
1000-2000 bp	20-80 ng	10-40 ng
>2000 bp	80-200 ng	40-100 ng
Plasmid DNA	1 $\mu$ g	500 ng
BAC	6 $\mu$ g	3 $\mu$ g