DNA SEQUENCE SUBMISSION FORM – EXTERNAL

Phone: (905) 525-9140 ext. 27048 E-mail: mobixlab@mcmaster.ca <https://healthsci.mcmaster.ca/mobix/services/sequencing>

**NAME:** **DATE:**

**SUPERVISOR:** **TELEPHONE #** ( ) **EXT.**

**E-MAIL ADDRESS:** **PO#**

 **Editing request\*\*** **with ($18)**  **without($10)**

 **E-mail results** Text file ABI file

 **Mail Printouts** (**Courier charges apply**) Yes

 **MAILING ADDRESS** **BILLING ADDRESS** (if different from mailing)

**Special Consideration:** 1) higher than 65% **GC** content **(add DMSO)**  YES

 2) Secondary Structure **(hairpin protocol)**  YES ($14.00 per rxn, 1 to 2 additional days)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Name of DNA\*MAX 8 CHARACTERS | Name of PRIMER\*MAX 8 CHARACTERS | # | Name of DNA\*MAX 8 CHARACTERS | Name of PRIMER\*MAX 8 CHARACTERS |
| 1 |  |  |  9 |  |  |
| 2 |  |  | 10 |  |  |
| 3 |  |  | 11 |  |  |
| 4 |  |  | 12 |  |  |
| 5 |  |  | 13 |  |  |
| 6 |  |  | 14 |  |  |
| 7 |  |  | 15 |  |  |
| 8 |  |  | 16 |  |  |

# DNA & Primer - should be suspended in Water or 0.1x Elution buffer. We require 5μl of DNA and 5μl primer per reaction.

 **Primer concentration: 1 picomole/μl = [1 μM]**

 **DNA concentration: 1ng/μl per 100 bases**

# DNA Concentration – because sequencing is unidirectional the *number of copies of your template* in the sample becomes very important, too little DNA will result in no-signal. Too much DNA can result in a short read or a smear or no signal. Note that the input concentration should be based on the TOTAL size of the template DNA in the sample; e.g. give us 5μl @ 30 ng/μl if your plasmid + insert is 3 kb. UV absorbance–based quantification is not always accurate! Better methods are Qubit Fluorometric or gel-based quantification.

**Please indicate your TOTAL template size**

 **ds DNA approx. size**

 **PCR products approx. size**

 **\*\***Editing is the correction of miscalled bases. These problems generally occur at the beginning and end of the sequence but can occur anywhere.

**Note** – you require the ABI file and the correct computer software to do your own editing.

**Sample Storage:** we keep the DNA samples and primers for one month after they have been processed.

## Mobix Lab, HSC-3N4, McMaster University, 1280 Main Street. W., Hamilton, ON, L8S 4K1