

Sample Submission Guidelines

Sanger Sequencing: Direct Colony Sequencing (DCS) and High Throughput DCS

Naming and Labeling Protocol

Character Limit

ACGT order forms on your account dashboard can only accept a total of 23 characters for both template name and primer name combined. Special characters are limited to numbers, underscores (_), and hyphens (-). No spaces.

Sample Labels

- Please make sure that the labeling on your tubes **matches** what you have written on the order form **exactly**.
- Use **BLACK** permanent marker to label your tubes, as colored markers tend to smear and are difficult to read.
- ACGT **does not** recommend tubes with screw-on caps, however, should you send samples in tubes with screw-on caps, you must label both the tube and cap.
- If you prefer to number your tubes instead of writing the full name, add the corresponding numbers in front of the template name according to the numbering protocol as follows:
 - 1_Template1 with PrimerA
 - 2_Template2 with PrimerB; etc.

Our order forms will provide the option to autofill these numbers as well. This is to ensure that the samples can be correctly identified.

Primers

Only one primer may be used per Sanger reaction. If you need a template analyzed using multiple primers, those will need to be listed as separate reactions on the order form:

- Template1 with PrimerA
- Template1 with PrimerB
- Template2 with PrimerA
- Template2 with PrimerB; etc.

Acceptable Tubes

Single Pass Primer Extension (SPPE)

Samples should be submitted in 1.5 ml or 0.5 ml microfuge tubes with the appropriate amount of template and/or primer. You may also send PCR strip tubes or 96-well plates. **Please do not send individual PCR tubes.**

- If you are planning to send a large volume of samples in 96-well plates, please consider placing a High Throughput SPPE order (a minimum of 48 or more reactions).
- If you have less than 48 reactions, but still plan on sending samples in a 96-well plate, the reactions will be performed according to the following orientation–A1–H1, and so on. (See diagram 1–O on the right)

High Throughput SPPE:

Samples must be submitted in 96-well plates or PCR strip tubes. We recommend that plates be sealed using strip tube caps, rather than plate seals and foils, to avoid leakage and cross-contamination.

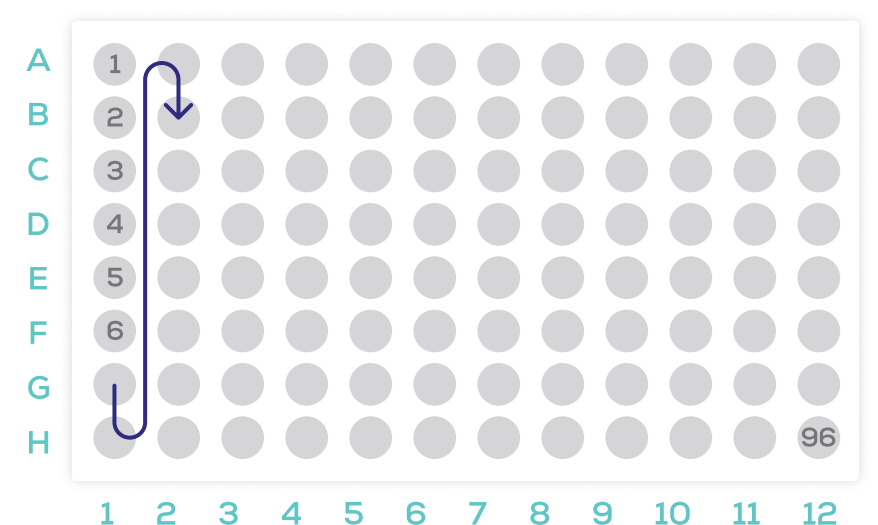


Diagram 1–O: 96-well plate

Sample Preparation

