

PCR Re-Sequencing Sample Submission Requirements

AGRF's PCR Re-Sequencing service requires your genomic DNA (gDNA), and oligonucleotide pairs to produce a PCR amplicon of targeted size to then sequence.

AGRF Sample Requirements:

- For 1 reaction, a 4µL sample is required at a concentration of 10ng/µL
- AGRF recommend that A_{260}/A_{280} ratios are performed on all gDNA samples prior to submission. The ideal optical density range is 1.6 – 1.9. Please let us know if your samples fall outside this range in the additional comments section of the online submission page.
- gDNA samples should be re-suspended in sterile de-ionised water. Please let us know if they are in a solution other than water, in the additional comments section
- Please submit samples in 96-well microtitre plates. Seal microtitre plates with an adhesive film or foil (or heat seal) prior to shipping
- Clearly label the front and one side of the microtitre plate skirt with the following:
 - AGRF project I.D. (for example, CAGRF0123)
 - Unique plate name (if more than two sample plates are submitted)

Example – If you have 1 gDNA sample from which you would like 25 PCR amplicons produced and sequenced, AGRF would require a minimum of 250ng of gDNA in 100µL volume.

AGRF Primer Requirements:

- For 1 reaction, we require at least 2µl for both Forward and Reverse (F & R) primer at a minimum concentration of 5µM (10µM recommended)
- AGRF recommends that primers are re-suspended in sterile de-ionised water and stored at -20°C with minimal freeze-thawing
- Clearly label the side of each microtube with the following:
 - Primer name
 - Concentration
 - AGRF project I.D. (for example, CAGRF0123)

Example – If you have 1 PCR amplicon from which you would like to generate and sequence 25 gDNA samples, AGRF would require a minimum of:

- 50µL of F primer and R primer at 5pM/µL concentrations respectively, or
- 25µL of F primer and R primer at 10pM/µL concentrations respectively

NB. Micromolar concentration (µM) = picomoles/µL (pM/µL)

Online Submission Requirements

- Please complete the AGRF online sample submission form when sending PCR Re-Sequencing Samples to AGRF
- If you require AGRF to design primers, please complete and upload the "Gene File" excel template.
- If you have designed primers, please complete and upload the "PCR Primer File" excel template.
- Please complete and upload the "Sample File" excel template. Note: AGRF will use the "Sample Code" to name the sequences produced from the project

Shipping Address

AGRF
Level 5 Gehrman Laboratories
University of Queensland
Research Road
St Lucia, Qld 4072