

## Welcome to the TCAG DNA Sequencing Facility

**Sample Preparation:** Samples must be submitted containing 7.0 ul purified template DNA (at the appropriate concentration - see "DNA Template Concentration" instructions below). The entire sample volume will be used for the sequencing reaction. If you are using a custom primer, samples must be premixed with template and primer in one tube in order to be processed. The primer must be added at a concentration of 20-33 ng (3-5 pmol) in 0.7 ul volume, for a total volume submitted to the sequencing facility of 7.7 ul. Be sure to only add ONE primer to each tube. If you are using a standard primer (see [www.tcag.ca/primerList.html](http://www.tcag.ca/primerList.html)), the facility will add the primer to your samples. In this case, the volume submitted to the sequencing facility should be 7.0 ul. ALL submitted samples will be billed, unless the DNA sequencing facility is at fault as determined by our control run on each plate. **DNA Template Concentration:** The quantity of DNA template depends on the size of the template you are sequencing.

- Plasmids – 200-300ng in 7 ul
- PCR product (>4kb) – 150-200ng in 7 ul
- PCR products (2-4kb) – 100-150ng in 7 ul
- PCR products (1-2kb) – 50-100ng in 7 ul
- PCR products (<1kb) – 50ng in 7 ul
- BAC/Cosmid DNA – 600-800 ng in 12 ul with 2uL primer for a total volume of 14uL

### Contact Information

- Email Beverly Apresto with questions at [bapresto@sickkids.ca](mailto:bapresto@sickkids.ca)
- Call us at 416-813-8643
- Link to TCAG homepage [TCAG](#)