

SANGER SEQUENCING

AGRF offers a full range of Sanger sequencing throughout Australia. Our services have been tailored to make them easy to use and reliable, with four points of entry depending on your specific project needs.

All Sanger sequencing services are NATA accredited. You can submit your samples online and drop off samples at your local node or send via post. We also offer free re-runs if results do not meet our high quality standards.



Service type

Point of Entry

The Sequencing Process

Unpurified PCR Product (PD+): Submit unpurified PCR product for purification and sequencing.	Receipt of PCR amplicons and primer(s)	Amplicon purification
Purified DNA (PD): Purified DNA template (plasmid or PCR product) mixed with the appropriate primer is submitted to AGRF for sequencing.	Receipt of purified DNA template (plasmid or PCR product) and primer mix	DNA BDT labelling (sequencing) reaction
Unpurified BDT reaction (CS+): You perform the BDT sequencing reaction and submit your unpurified reaction for cleanup and sequencing.	Receipt of unpurified labelled DNA	BDT sequencing reaction cleanup
Capillary Separation (CS): You perform the BDT sequencing reaction and submit your labelled DNA as a dried down pellet for resuspending and loading directly onto the AB3730xl instrument.	Receipt of labelled DNA in dried down pellet form	Capillary separation on AB 3730xl
		Bioinformatics results analysis
		eData delivery via website

Data Delivery

Results from sequencing will be delivered to you in the following formats:

- Raw trace (AB1 file)
- FASTA-formatted quality trimmed Q20 sequence
- Raw, unfiltered basecall sequence in a .seq file
- BLAST results against GenBank (.bn file)
- Batch summary report

PCR Resequencing

If you are planning a large PCR based sequencing project, we can take care of the whole process. This is a customised sequencing service and is commonly used for the identification of somatic mutations and genetic variability, such as SNPs. With our extraction service and custom bioinformatics analysis, we can take you from raw tissue to analysed data.

Our funding partners

AGRF is a not-for-profit organisation supported by the Commonwealth Government infrastructure schemes administered through Bioplatforms Australia.

These schemes include NCRIS, EIF, Super Science Initiative CRIS and NCRIS 2.

