

Sanger (dideoxy) sequencing and genotyping in the GenePool



The GenePool offers sequencing on ABI 3730 instruments to users in Edinburgh[‡] and in NERC area science*.

We run two ABI 3730, 48-capillary sequencers, and are able to process ~ten 96 well plates per day. In 2008 we processed over 200,000 samples, including 170,000 Sanger sequencing reactions and 46,000 genotyping lanes.

Sanger sequencing

We provide a range of analyses from ‘complete’ (where we design and carry out the experiment) to just running your sequence reactions on our instrument. For ‘just electrophoresis’ samples, turnaround is usually less than 3 days. You can also provide us with DNA template (either PCR product or plasmid) and we will carry out the sequencing reaction and analysis. These services are available whether you have one sample or thousands, but are cheaper for large projects if samples are supplied in 96-well plates.

We also sequence from recombinant bacterial clones, where you supply the plasmids to be sequenced in the form of 96-well plates containing bacterial cultures. We will PCR amplify the insert and generate sequence from one or both ends.

We also offer a shotgun sequencing service, where we will shotgun subclone from your large-insert bacterial clone (fosmid or BAC) and sequence to a specified coverage (usually 6-8 fold). We then perform a draft assembly of your clone and can perform finishing sequencing reactions if required.

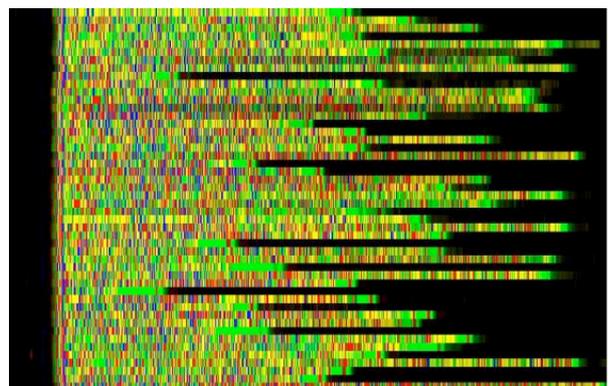
Genotyping

We can perform genotyping for existing marker sets (including multiplexed marker sets) of microsatellite and other genetic markers. The minimum number of samples analysed is 48. The ABI 3730 is compatible with the standard range of fluorescent markers.

We also offer **bioinformatics** support to users of the Sanger service for processing of large numbers of samples, etc.

‡ We do not usually offer Sanger sequencing outside Edinburgh, as we do not intend to compete with the local Sanger sequencing services available in most institutions. Contact us to enquire if you do not have access to a local sequencing facility.

* Access to the GenePool for NERC science users is managed by the NERC Biomolecular Analysis Facility - see conditions and methods for application at <http://www.nbaf.nerc.ac.uk/>.



Contact us for more information and a quotation genepool@ed.ac.uk



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