



The Gandel Charitable Trust Sequencing Centre

The Gandel Charitable Trust Sequencing Centre at the Monash Health Translation Precinct (MHTP) provides a NATA accredited DNA sequencing service. The Centre services research Institutes throughout Australia and maintains an excellent reputation for the provision of high quality, long read sequence data and comprehensive client support.

The centre was established in 1999 and operates as not-for-profit. The following platforms are utilised: Applied Biosystems 3130xl Genetic Analyzers, 7900HT Fast RT-PCR Systems and Biorad Experion.

Services include:

- DNA Sequencing
- Fragment Analysis
- Gene Expression
- RNA, DNA and Protein Analysis

Gene Expression Service

The Gene Expression service utilises Applied Biosystems 7900HT Fast Real-Time PCR systems. These are high throughput PCR instruments equipped with Fast 96- and 384-sample blocks and a block for Taqman® Array 384-well cards.



The platform supports numerous expression analysis assays including:

- Gene Expression Analysis with Taqman® Assays
- Gene Expression Analysis with SYBR® Green-Based Assays
- Protein Expression with Taqman® Assays
- MicroRNA Profiling with Taqman® Assays

Other applications using the Applied Biosystems 7900HT Fast Real-Time PCR systems include:

- Genotyping - detection of single nucleotide polymorphisms (SNPs)
- High Resolution Melt (HRM) - detection of genetic variation
- Copy Number Variation detection



Services include:

1. Instrument usage:

Use of the 7900HT Fast Real-Time PCR instrument is arranged via an easy online calendar booking system http://sequencingfacility.med.monash.edu.au/gene_expression.htm
To obtain password access to the calendar, please email the Centre.

2. Real-Time PCR consumables:

Real-Time PCR mastermix, reagents and plates are available for purchase at cost price from the Centre.

3. Gene Expression software:

The Applied Biosystems Sequence Detection (SDS) version 2.3 software is required to create a 7900HT plate document and for data analysis. Please contact the Centre if you require a copy of the software.

The Centre also owns a single license for Primer Express™ version 3.0 software and MHTP members can use this program for primer design.

Data retrieval

Data in simple text form (for use in Excel) or in SDS format can be easily downloaded following completion of the run or accessed via our FTP site link on the website.

Comprehensive trouble-shooting and technical advice is available to all researchers. Clients are encouraged to call or email with any questions.



Authorised Service Provider

The Gandel Charitable Trust Sequencing Centre is an Approved Gene Expression Service Provider and a member of the Taqman Service Provider Program.



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