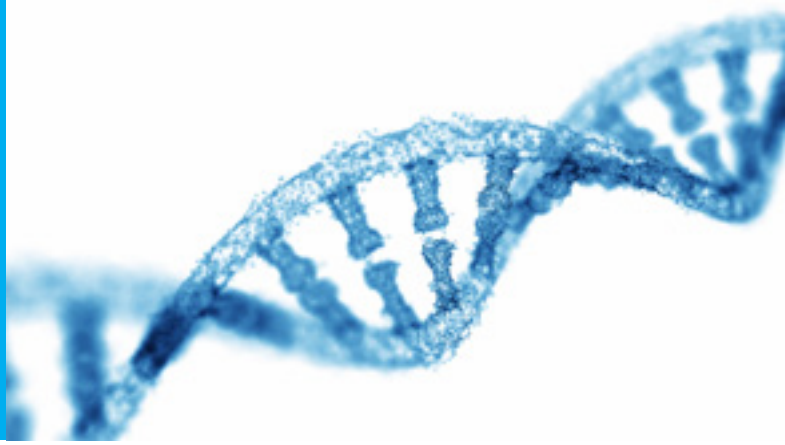
# HUMAN EXOME IDENTIFICATION

AGRF's Human Exome Identification service ensures sample identity and integrity via unique barcoding of individual samples. Using the Agena Biosciences Exome ID Panel, this service is a highly accurate, rapid method for identification and quantification.



## What is Exome Identification?

AGRF's human exome identification service uses the Agena Biosciences Exome ID panel, a selection of 44 markers (+gender markers) that can uniquely barcode individual human samples. Once tested, samples can be tracked through processing, ensuring sample mix-ups or incorrect annotations are detected early.

## Applications

- Sample tracking and identification
- Monitoring human cell lines
- Facilitating direct chain-of-custody matching in exome sequencing / microarray data
- Biobanking

## Service Access

To access this service we require 100ng of DNA. Each sample undergoes QC assessment prior to processing and is accurately quantitated to 10ng/ul.

A minimum of 48 samples per submission is required for processing.

## Key Highlights

The markers in the panel have been selected from exomic regions and have high minor allele frequencies (>0.4). The markers are also found on a number of Illumina and Affymetrix arrays (listed below), allowing direct comparison between exome identification and these arrays:

- Illumina HumanCytoSNP-12 DNA Analysis BeadChip
- Illumina HumanOmniExpress(Plus)
- Affymetrix CytoScan 750K Array
- Affymetrix CytoScan HD

## Data Analysis

Sample match / mismatch reports are automatically generated using MassARRAY analysis software. Results data is provided in Excel format, detailing any matches found.

**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.

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