HUMAN EXOME IDENTIFICATION

agrf
Empowering Australian Genomics

Ensuring sample identity and integrity.

Agena Biosciences Exome ID Panel

What is Exome ID?

The AGRF human sample identification service uses the Agena ExomeID 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 can be 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 ExomeID and these arrays.

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

Data Analysis

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

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NATA WORLD RECOGNISED ACCREDITATION

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NCRIS National Research Infrastructure for Australia
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