

Genotyping by SNP Analysis

Introduction:

Single Nucleotide Polymorphisms (SNPs) are the single major source of variations in genotype within individuals. The SNPs within important genes have been reported to be responsible for polymorphism within individuals of same race, different races, plants and microbes.

SNPs can be detected within genes of interest in several ways: Hybridization based techniques (on chips), PCR based technology (using SNP specific fluorescent probes), DNA sequencing, etc.

Though other techniques are robust and fast for a population based screening of SNPs, sequencing based detection of SNPs remains the trusted protocol. It's also convenient for analysis of novel SNPs, studying smaller population sizes and lesser number of SNPs (no set up cost).

Ordering Information:

Product	Service	Cat #
Genotyping by SNP Analysis	Per Gene	107430

Service Tax as applicable will be charged extra

Development of ARMS (Amplification Refractory Mutation System) Primers

Introduction:

ARMS Primers are designed/ developed based on available mutation information such that there would be amplifications specific to either mutant or wild type samples. Genes with mutations/ SNPs of significance can be easily detected based on simple PCR reactions once the ARMS primers are developed and validated.

We offer services for detection of mutations/ SNPs within genes of significance and design/validate ARMS primers for detection/ presence of mutations within large number of samples within a short time.

Ordering Information:

Product	Service	Cat #
Development of ARMS Primers	Per Sample	107433

Features:

- DNA sequencing based detection of SNPs
- Genomic DNA Isolation, designing and synthesis of Primers, amplification of fragment of interest, purification of PCR products, sequencing and sequence data analysis for SNP detection - Projects are undertaken from any of the above steps and concluded
- Graphical representation of data
- Fast and reliable service

Deliverables:

1. All sequence data (Aligned as well as raw data)
2. Electropherograms
3. Final report

Delivery Time: Please Inquire

Note: Please Contact
geneiservice@sanmargroup.com

Features:

- Design and validate ARMS primers from known mutation/ SNP information.
- The ARMS primers would specifically amplify wild type or mutation-specific genotype.
- Fast screening of large number of samples for detection of particular mutations/ SNPs

Deliverables:

1. Designed and validated ARMS primer set
2. Final report with all relevant information

Delivery time: Please Inquire

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Service Tax as applicable will be charged extra