

Development of SCAR Primers: (For distinguishing one pair of sample)

Introduction:

Sequence Characterised Amplified Region (SCAR) primers for sample specific amplifications are developed and validated typically following the steps:

1. Polymorphic RAPD profiles generated
2. Polymorphic DNA fragments are cloned and sequenced
3. SCAR primer sets are designed and synthesized
4. SCAR primer validation by PCR

Ordering Information:

Product	Size	Cat #
Development of SCAR Primers	Per Pair	105322

Service Tax as applicable will be charged extra

Features:

- Validated protocols
- Reproducible results

Deliverables:

1. All clones developed and sequence data
2. Primers synthesized and left over at project completion
3. Final report with validated primers and protocols

Delivery Time: Please Inquire

Note: Please Contact
geneiservice@sanmargroup.com

Amplified Fragment Length Polymorphism Service (AFLPs)

Description:

AFLPs are polymerase chain reaction (PCR)-based markers for the rapid screening of genetic diversity. AFLP methods rapidly generate hundreds of highly replicable markers from DNA of any organism; thus, they allow high-resolution genotyping of fingerprinting quality. The time and cost efficiency, replicability and resolution of AFLPs are superior or equal to those of other markers [allozymes, random amplified polymorphic DNA (RAPD), restriction fragment length polymorphism (RFLP), microsatellites], except that AFLP methods primarily generate dominant rather than co-dominant markers.

The procedure of this technique is divided into three steps:

1. Digestion of total cellular DNA with one or more restriction enzymes and ligation of restriction half-site specific adaptors to all restriction fragments.
2. Selective amplification of some of these fragments with two PCR primers that have corresponding adaptor and restriction site specific sequences.
3. Electrophoretic separation and amplicons on a gel matrix, followed by visualization of the band pattern.

Features:

- High replicability and ease of use of AFLP markers
- Major new type of genetic marker with broad application in systematics,
- Finds its use in pathotyping & population genetics
- DNA fingerprinting and quantitative trait loci (QTL) mapping can be efficiently carried out with AFLP markers.

Deliverables:

1. AFLP fingerprinting profile
2. Electropherograms
3. Final Report

Delivery Time: Please Inquire

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Ordering Information:

Product	Service	Cat #
Amplified fragment length Polymorphisms (AFLPs)	Per Sample	116704

Service Tax as applicable will be charged extra