

Cloning of STRs/ Microsatellite Markers

Introduction:

Genotyping is a technology that can distinguish one sample from another. The technology takes advantage of the Short Tandem Repeats (STRs) or Microsatellites that occur dispersed through out the genomes. The STRs are more often than not polymorphic in nature and the number of repeats occurring in each STR locus varies within samples.

STRs that are linked/segregate with traits are used for Market Assisted Selection (MAS) in breeding programs.

Cloning and characterization of STRs that might demonstrate polymorphism within very similar samples are important for DNA fingerprinting/genotyping purposes.

Ordering Information:

Product	Service	Cat #
Cloning of STRs /Microsatellite Markers	Per Sample	107434

Service Tax as applicable will be charged extra

Features:

- Starting from samples or genomic DNA, 10 independent STR clones would be developed (minimum guaranteed)
- Sequence data would demonstrate STRs
- STR specific primers would be designed
- Standardization of STR specific "PCR/multiplex PCR" conditions as well as screening samples for polymorphism are also undertaken

Deliverables:

- 10 clones with STRs/ minimum
- Sequence data and electropherogram
- Final report

Delivery Time: Please Inquire

Note: Please Contact
geneiservice@sanmargroup.com

Genotyping Marker Development

Introduction:

Genotyping markers are useful to study segregation of useful genes/traits within a population. A typically useful genotyping marker would be highly linked to a trait of interest as would be evidenced by their co-segregation.

Genotyping markers specific to traits of commercial importance viz, insect/ pest resistance, higher productivity, drought resistance, etc. would be highly useful for Marker Assisted Selection (MAS) in a breeding program.

Bangalore Genei offers to be a partner for collaborative projects where a large population of plants can be screened for number of Microsatellite markers/ STRs for linkage analysis/ association studies. We become the partner of choice because of the available expertise and unlimited resources required for such projects.

Ordering Information:

Product	Service	Cat #
Genotyping Marker Development	Per Sample	107432

Features:

- Collaborative research projects for screening large populations for hundreds of markers.
- Availability of expertise and unlimited resources ensure fast completion of project.
- Development of novel markers as well as validation is possible.

Deliverables:

- All genotyping data generated from the study
- All left over primers
- Final reports with details of protocols followed for the project

Delivery time: Please Inquire

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