

Genesky Service List



Sample Preparation

DNA Extraction
RNA Extraction
cDNA Preparation
microRNA Extraction
Whole-Genome Amplification



Mutation Screening by Sequencing

DNA/cDNA Sequencing and Mutation Identification
for Candidate Genes
Mutation Validation for GWAS/NGS



Next Generation Sequencing

De novo Sequencing
Whole Genome Resequencing
RAD-seq(Restriction-site Associated DNA Sequencing)
Exome Sequencing
Target Region Sequencing
In-solution Hybridization Enrichment
EasyTarget™ Enrichment
FastTarget™ Enrichment
RNA Sequencing
Small RNA Sequencing
Degradome Sequencing
LncRNA Sequencing
WGBS (Whole-Genome Bisulfite Sequencing)
RRBS (Reduced Representation Bisulfite Sequencing)
Methyl-Seq
CHIP-seq
16S/18S/ITS Amplicon Sequencing
Metagenome Sequencing
Ultra-High throughput SNP genotyping (SNPseq®)
Ultra-High throughput CNV detection (CNVseq®)



CNV Detection

aCGH (array-based Comparative Genomic Hybridization)
Real-Time Quantitative PCR
AccuCopy®: Multiplex CNV Detection (12-16plex)
CNVplex® : High Throughput CNV Detection (48-96plex)
CNVseq® : Ultra-High throughput CNV Detection
(500-2000plex)



SNP Genotyping

TaqMan: Allelic Discrimination Method (1 SNP)
Conventional RFLP Analysis (1 SNP)
Multiplex Fluorescence-based RFLP (2-4 plex)
LDR: Multiplex SNP Genotyping (3-8 plex)
SNaPshot: Multiplex SNP Genotyping (8-16 plex)
iMLDR® : Multiplex SNP Genotyping (15-30 plex)
SNPscan® : High Throughput SNP Genotyping
(48-192 plex)
SNPseq® : Ultra-High Throughput SNP Genotyping
(500-2000 plex)



Microsatellite Analysis

Linkage Mapping of Mendelian Disease Genes
Candidate Chromosomal Region Screening
Loss of Heterozygosity Analysis
Individual Identification
Microsatellite Instability Analysis



Gene Expression Analysis

Whole Genome Gene Expression Profiling
Real-Time Quantitative PCR
Allelic Expression Imbalance
Whole Genome microRNA Analysis



DNA Methylation Analysis

Direct Bisulfite Sequencing PCR (BSP)
Clonal Bisulfite Sequencing PCR (BSP)
Multiplex Quantitation of Methylation Level
RRBS



Bioinformatics and Genetic Analysis

NGS Data Processing and Bioinformatics Analysis
Pedigree-based Linkage Analysis
Haplotype Inference and LD Block Analysis
Genetic Association Analysis



Reagents Developed on Patented Technologies

- 1 . AmpAll® Whole-Genome Amplification Kit
2. AccuCopy® Multiplex CNV Detection Kit (Custom Design)
3. CNVplex® High Throughput CNV Detection Kit (Custom Design)
4. SNPscan® High Throughput SNP Genotyping Kit (Custom Design)

***Innovative Gene Technologies
for Leading Scientific Research!***

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