CRG Centre de Regulació Genòmica

Material: Genome-Wide DNA Analysis BeadChips.

Tech data:

- **High-throughput multi-sample format for manual processing of 16 samples simultaneously.**
- **Number of Samples for BeadChip: 4.**
- **Number of BeadChip for package: 4.**
- **Number of Markers per sample: around 1,140,000.**
- **Median space between markers: 1,2 kb (mean intermarker spacing of 2,4 kb).**
- **Type of marker: within 10 kb of a RefSeq Gene (around 619,000), Non Synonymus SNPs (around 32,100), 100 intervals surrounding genome-wide published peak markers (62,000), rare CNV (5,000) and common CNV.**
- **Comprehensive and uniform genome-wide coverage (CEU: $r^2 \geq 0.93$ and mean MAF ~ 0.19), high-value regions (MHC, ADME), new content from 1,000 genome project.**
- **Low quantity of DNA input: 200ng per sample.**
- **Assay protocol without PCR or ligation steps that enables to target any genomic region with powerful TagSNPs and sensitive CNV detection probes (average stdev of log R ratios < 0.2).**
- **Automation options available (throughput of up to 576 samples per 5-day week)**
- **Easy follow-up possible with other complementary GWAS beadchips and custom contents. Exclusive access to the 5 millions markers derived from the ongoing 1000 Genome Projects.**
- **Suitable to run in the iSCAN / HiSCAN systems (array scanners) from Illumina.**
- **Data analysis: genotype calls, CNV analysis (including B allele frequency for LOH study) and controls dashboard with GenomeStudio® and additional plug-ins available.**
- **Genotyping Parameters:**

  Call Frequency: greater than 99%.

  Reproducibility: around 99.9%.

  Mendelian Inconsistencies: less than 0.1%.

Cantidad:21

C/ Dr. Aiguader, 88
08003 Barcelona
Tel. +34 93 316 01 00
Fax +34 93 316 00 99
www.crg.es

CESR-1 Fundació Privada Centre de Regulació Genòmica