PRENATAL GENETICS RESEARCH

Now from Agilent

Baylor College of Medicine Chromosomal Microarrays

Rapidly detect chromosomal aberrations in prenatal samples

The SurePrint CGH and CGH+SNP Prenatal Research Microarrays offer unique probe sets optimized by Baylor College of Medicine to maximize the detection of chromosomal aberrations for prenatal research.

- Probes targeted to regions prone to chromosomal aberrations to enable fast, genome-wide analysis
- Basic 2x105K and expanded 4x180K array formats are available
- Compatible with Agilent SureTag Labeling Kit, SureScan Scanner and CytoGenomics software

Baylor College of Medicine

Detect submicroscopic aberrations missed by karyotype analysis

These arrays enable the analysis of submicroscopic chromosomal regions subject to copy number changes and structural rearrangements associated with genetic conditions.

- Detect unbalanced structural abnormalities below the resolution of karyotype analysis
- Minimize the detection of irrelevant variants and those of uncertain significance (VUS)

Basic 2x105K array design for typical samples

The 2x105K array format detects copy number variation (CNV) in typical cultured or uncultured chorionic villi (CVS) and amniotic fluid (AF) samples. The research array is designed to maximize the detection of common aneuploidies. Oligonucleotide probes are optimized by refinement over thousands of samples to provide enriched coverage of:

- Regions prone to microdeletions and microduplications
- Rearrangement-prone pericentromeric and subtelomeric regions

Expanded 4x180K array design for enhanced sensitivity

In samples from high-risk populations, such as those in which consanguinity may be present, the 4x180K array may be the preferred design. This research array offers:

- All genomic regions covered in the 2x105K array design
- All exons in 22 genes associated with genetic conditions with higher CGH probe density
- 60,000 SNP probes to detect uniparental disomy (UPD) and absence of heterozygosity (AOH)

To learn more or place an order, visit:
www.agilent.com/genomics/BaylorCollegeofMedicine

Part Number	Product Description
G5959A	SurePrint HD CGH Prenatal Research Microarray Kit, 2x105K
G5960A	SurePrint G3 CGH+SNP Prenatal Research Microarray Kit, 4x180K

For Research Use Only. Not for use in diagnostic procedures.
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The Chromosomal Microarray Workflow

Custom or Catalog Microarrays
- Baylor College of Medicine Prenatal Research CGH & CGH+SNP Microarrays
- Custom CGH+SNP Microarrays

Sample Labeling
- Bravo Automated Liquid Handling Platform
- SureTag Complete DNA Labeling Kit

Microarray Processing & Components
- Oligo aCGH Wash Buffers and Processing Components

Microarray Scanning
- SureScan Microarray Scanner

Data Analysis
- Agilent CytoGenomics Software

See Deeper. Reach Further.

Agilent Technologies | Genomics