Agilent’s Comprehensive Cytogenetic Research Solution

- **Highest resolution copy number** – Agilent SurePrint G3 CGH+SNP Microarrays
- **Highest resolution oligos** – Agilent SureFISH Probes
- **Highest resolution SNPs** – HaloPlex Target Enrichment System

Customization and Catalog Offerings for Flexible Design Options

- Focus on genomic regions that are important
- Choose from 65,000 genotypable SNPs and more than 28 million pre-qualified CGH probes
- No minimum order amount required

**Superior CGH performance**

The best signal-to-noise ratio, even on FFPE samples with low input amount (down to 50 ng).

DNA copy number profiles for a >5 year old FFPE colon cancer sample on (A) Agilent, (B) Competitor 1, and (C) Competitor 2 platforms. The y-axis represents log2 ratios of the probes; the x-axis represents the probes organized in genomic order. Agilent shows the best signal to noise and the mean log2 ratio value of the aberrated genomic regions is more compressed on the Competitor 1 platform compared with Agilent and Competitor 2. (O. Krijgsman et al, Genes Chromosomes & Cancer, Dec 2011).
Sensitivity to detect mosaicism down to 8%

Reliably detect mosaicism as low as 8%, at aberration sizes comparable to unbalanced anomalies in MDS/AML.

Partial profile of a sample with a terminal deletion on chromosome 4. Panel A: Sample’s 100% DNA, B: Synthetic mosaicism at 10% level, C: 8%, D: 7%.

The Agilent arrays are able to detect the deletion at the 8% and 10% level, but not at the 7% level. (R. Valli et al, Molecular Cytogenetics, 2011)

Higher resolution than the competition

Better exon/gene coverage, lower DLRSD, less signal variation, and higher copy-number detection rate with fewer probes.

Myeloma cell line DNA hybridized to Agilent 244K, Agilent 1M, and competitor array (>2 million probes). The competitor’s array is unable to call a focal gain on PAX5 identified by 8 and 31 probes using the Agilent 244K and Agilent 1M arrays, respectively. (Braggio et al, AACR poster, April 2010)
### Product Description

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Area of Focus</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SurePrint G3 Human CGH+SNP Microarray 4x180K</td>
<td>ISCA</td>
<td>G4890A</td>
</tr>
<tr>
<td>SurePrint G3 Human CGH+SNP Cancer Microarray 4x180K</td>
<td>Cancer genes</td>
<td>G4869A</td>
</tr>
<tr>
<td>SurePrint G3 Human CGH+SNP Microarray 2x400K</td>
<td>Genes &amp; exons</td>
<td>G4842A</td>
</tr>
<tr>
<td>SurePrint G3 Custom CGH+SNP Microarray 1x1M</td>
<td>User-defined</td>
<td>G4882A</td>
</tr>
<tr>
<td>SurePrint G3 Custom CGH+SNP Microarray 2x400K</td>
<td>User-defined</td>
<td>G4883A</td>
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<tr>
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<td>User-defined</td>
<td>G4884A</td>
</tr>
<tr>
<td>SurePrint G3 Custom CGH+SNP Microarray 8x60K</td>
<td>User-defined</td>
<td>G4885A</td>
</tr>
</tbody>
</table>

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