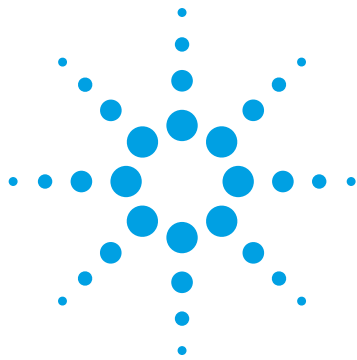


WE MAKE IT. *You make it happen.*
OpenGenomics



Benefits

- Long-mer probes provide highest sensitivity and specificity for accurate calls
- Probe design and validation processes specifically optimized for CGH
- High-throughput and lower cost per sample with multipack formats

Now available

- Probe databases for Human, Mouse and Rat content expanded within eArray, our online application for easy design of custom arrays (Table 2)
- Specifications for new SurePrint G3 Mouse and Rat Microarrays (Table 3)

Agilent's SurePrint G3 Human, Mouse and Rat CGH Microarrays

The premier copy number solution

The Agilent CGH platform lets you profile DNA copy number variations with the industry's highest fidelity long-mer probes. We now have a comprehensive portfolio for detection of copy number changes utilizing both catalog and custom content.

Table 1. Agilent SurePrint G3 Human, Mouse and Rat Genome Catalog and Custom CGH Microarrays

Catalog Kit	1x1M Kit	2x400K Kit	4x180K Kit	8x60K Kit
Number of Arrays/Slide	1	2	4	8
Number of Slides/Kit	5	5	3	3
Human CGH	G4447A	G4448A	G4449A	G4450A
Human CNV	G4506A	G4507A	NA	NA
Mouse	G4838A	NA	G4839A	NA
Rat	G4840A	NA	G4841A	NA
Custom Microarray	1x1M	2x400K	4x180K	8x60K
Number of Arrays/Slide	1	2	4	8
Number of Slides	1	1	1	1
Custom	G4123A	G4124A	G4125A	G4126A



Agilent Technologies



Table 2. Agilent HD-CGH Probe Databases

Description	Number of probes available in eArray
Human	28.7 million
Mouse	19.1 million
Rat	18.5 million

Table 3. SurePrint G3 Mouse and Rat Catalog Microarray Specifications

		Mouse 1x1M	Mouse 4x180K	Rat 1x1M	Rat 4x180K
Design IDs		027414	027411	027065	027064
Total Features		974,016	180,880	974,016	180,880
Control Grid Feature Count		6,745	6,563	7,038	6,856
Distinct Biological Features		963,261	170,305	962,967	170,012
Replicated Probes (5X)		1,000	1,000	1,000	1,000
Additional Negative Controls		10	12	11	12
Genome Build		Mm37	Mm37	Rn4	Rn4
Unique Probes		963,261 (98.8 %)	170,305 (94.1 %)	962,967 (98.8 %)	170,012 (93.9 %)
Intragenic Probes		539,142 (55.3 %)	92,205 (50.9 %)	418,834 (43.0 %)	70,202 (38.8 %)
Intergenic Probes		424,119 (43.5 %)	78,100 (43.1 %)	544,133 (55.8 %)	99,810 (55.1 %)
Median Probe Spacing	Intragenic	1,509	9,116	1,268	7,999
	Intergenic	2,519	14,007	2,446	14,468
	Overall	1,783	10,878	1,668	10,721
Average Probe Spacing	Overall	2,669	15,103	2,822	15,988
RefSeq* Coverage	At Least 1 Probe	22,664 (87.9 %)	19,046 (73.9 %)	14,538 (89.9%)	11,943 (73.8 %)
RefSeq* Coverage (+/- 5kb)		24,767 (96.1%)	24,437 (94.8 %)	15,856 (98.0 %)	15,753 (97.4 %)

*25,767 mouse genes; 16,168 rat genes

Supporting Information:

- Product Notes
 - Agilent SurePrint G3 Human Catalog CGH Microarrays Product Note (5990-3368)
 - Agilent's Copy Number Variation (CNV) Portfolio (5990-3964)
 - Copy Number Analysis of Archival FFPE Tumor Samples by Oligo Array CGH (5989-7120)
 - Automating the CGH/CNV Workflow with the Bravo Automated Liquid Handling Platform (5990-4660)
- Product Manuals
 - Agilent Oligonucleotide Array-Based CGH for Genomic DNA Analysis Enzymatic Labeling for Blood, Cells or Tissues (G4410-90010)
 - Agilent Oligonucleotide Array-Based CGH for Genomic DNA Analysis ULS Labeling for Blood, Cells, Tissues or FFPE (G4410-90020)
 - Agilent Oligonucleotide Array-Based CGH for Genomic DNA Analysis (Bravo Automated Liquid Handling Platform with Enzymatic and ULS Labeling) (G4410-90040)

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