

CGH Microarray Solutions

Catalog and Custom Microarrays



Catalog

The Most Trusted Cytogenetics Research Solutions

The Agilent CGH Microarray Platform – powered by SurePrint and SureScan technologies for over 10 years – sits at the center of an integrated research platform designed for highly-sensitive, highly-scalable, and highly-reproducible profiling with DNA of different types and quality. SurePrint technology delivers a powerful combination of effective probe design algorithms and deposition methods to create extremely accurate, affordable catalog and custom microarrays.

- *In situ* synthesis of high-quality 60-mer oligonucleotides
- Advanced inkjet technology delivers densities of up to 1 million features per microarray
- Up to 8 arrays on a single slide for genome-wide or focused studies

Sample Labeling



Learn More at:
[www.agilent.com/
genomics/](http://www.agilent.com/genomics/)

SureTag Complete DNA Labeling Kit

The SureTag Complete DNA Labeling Kit generates robust cyanine-labeled genomic DNA targets for optimal hybridization signals with high signal-to-noise ratio and low probe-to-probe variability. The labeling protocol is a PCR-free linear amplification to ensure accurate copy number call. Efficient labeling provides reproducibility, confidence and maximum sensitivity in your experimental results.

Description	Kit Size	Part Number
SureTag Complete DNA Labeling Kit	1 kit	5190-4240
SureTag DNA Labeling Kit	1 kit	5190-3400
SureTag Purification Columns*	50 purification columns	5190-3391

* Additional columns may be needed depending on array format.

Genomic DNA ULS Labeling Kit

Genomic DNA ULS Labeling and Genomic DNA High-Throughput ULS Labeling Kits utilize a direct labeling method to efficiently generate Cy-3 and Cy-5 labeled genomic targets, starting from highly fragmented DNA. These kits are effective for genomic DNA isolated from tissues, cells, blood, and FFPE samples. Purification modules are available separately for dye removal and labeled genomic DNA clean-up.

Description	Kit Size	Part Number
Genomic DNA ULS Labeling Kit	1 kit	5190-0419
Genomic DNA High-Throughput ULS Labeling Kit	1 kit	5190-0450
Genomic DNA Purification Module	1 kit	5190-0418
Genomic DNA 96-well Purification Module	1 kit	5190-0451

Microarrays & Processing Components

For Superior Performance - Choose the Trusted Choice in Cytogenetics Microarrays

Model Organism CGH Arrays

Agilent model organism genome CGH Microarrays bring optimal clarity to comparative genomic hybridization by enabling researchers to perform ultra-high resolution, genome-wide DNA variation profiling without amplification or complexity reduction.



Learn More at:
www.agilent.com/genomics/

Description	# of Slides/Samples	Part Number
SurePrint G3 Mouse CGH Microarray Kit, 4x180K	3 slides / 12 samples	G4839A
	1 slide / 4 samples	G4826A-027411
Mouse Genome CGH Microarray, 2x105K	1 slide / 2 samples	G4425B-014699
Rat Genome CGH Microarray, 1x244K	1 slide / 1 sample	G4423B-015223
Rat Genome CGH Microarray, 2x105K	1 slide / 2 samples	G4425B-015235
SurePrint G3 CGH Rat Microarray, 1x1M	1 slide / 1 sample	G4824A-027065
SurePrint G3 Rat CGH Microarray Kit, 4x180K	3 slides / 12 samples	G4841A
	1 slide / 4 samples	G4826A-027064
Chicken Genome CGH Microarray, 1x244K	1 slide / 1 sample	G4423B-019553
SurePrint G3 Rhesus Macaque Genome CGH Microarray, 4x180K	1 slide / 4 samples	G4826A-024419
SurePrint G3 Chimpanzee CGH Microarray, 4x180K	1 slide / 4 samples	G4826A-024422
SurePrint G3 Bovine CGH Microarray, 4x180K	1 slide / 4 samples	G4826A-025242
SurePrint G3 Canine CGH Microarray, 4x180K	1 slide / 4 samples	G4826A-025522
SurePrint G3 Rice CGH Microarray, 4x180K	1 slide / 4 samples	G4826A-025843

CGH Arrays

SurePrint Human Genome CGH Microarrays are a high-resolution tool for genome-wide DNA copy number variation profiling without amplification or complexity reduction. Comprehensive probe coverage is enhanced with an emphasis on known genes, promoters, miRNAs, pseudoautosomal, and telomeric regions.

Note: Bundles contain sufficient quantities of slides, reagents, and consumables to process the indicated number of samples.

Description	# of Slides/Samples	Part Number
SurePrint G3 Human CGH Microarray Kit, 1x1M	5 slides / 5 samples 1 slide / 1 sample	G4447A G4824A-021529
SurePrint G3 Human CGH Bundle, 1x1M	50 samples	G5920A Option 1
SurePrint G3 Human CGH Microarray Kit, 2x400K	5 slides / 10 samples 1 slide / 2 samples	G4448A G4825A-021850
SurePrint G3 Human CGH Bundle, 2x400K	50 samples	G5921A Option 1
SurePrint G3 Human CGH Microarray Kit, 4x180K	3 slides / 12 samples 1 slide / 4 samples	G4449A G4826A-022060
SurePrint G3 Human CGH Bundle, 4x180K	48 samples	G5922A Option 1
SurePrint G3 Human CGH Microarray Kit, 8x60K	3 slides / 24 samples 1 slide / 8 samples	G4450A G4827A-021924
SurePrint G3 Human CGH Bundle, 8x60K	48 samples	G5923A Option 1
SurePrint G3 Unrestricted CGH ISCA v2, 4x180K	1 slide / 4 samples	G4826A-031748
SurePrint G3 Unrestricted CGH ISCA v2, 8x60K	1 slide / 8 samples	G4827A-031746
Human Genome CGH Microarray 244A Supplemental	1 slide / 1 sample	G4423B-016266
Human Genome CGH Microarray Kit 105A	5 slides / 10 samples 1 slide / 2 samples	G4412A G4425B-014698
Unrestricted HD-CGH Microarray ISCA v2, 2x105K	1 slide / 2 samples	G4425B-031750
Unrestricted HD-CGH Microarray ISCA v2, 4x44K	1 slide / 4 samples	G4426B-031747
Human Genome CGH Microarray Kit 244A	5 slides / 5 samples 1 slide / 1 sample	G4411B G4423B-014693
Human Genome CGH Microarray Kit, 4x44K	3 slides / 12 samples 1 slide / 4 samples	G4413A G4426B-014950
SurePrint G3 CGH ISCA v2 Microarray Kit, 8x60K	3 slides / 24 samples	G5955A
GenetiSure Pre-Screen Microarray Kit, 4x180K*	3 slides / 18 samples	G5962A
GenetiSure Pre-Screen Microarray Kit, 8x60K*	3 slides / 42 samples	G5963A

* Rubicon PicoPLEX Whole Genome Amplification Kit P/N 5190-9533 is used with the GenetiSure Pre-Screen Microarrays.

CGH + SNP Arrays

GenetiSure and SurePrint Human Genome CGH+SNP Microarrays detect copy number changes as well as copy neutral aberrations, such as loss of heterozygosity (LOH) and uniparental disomy (UPD). Probe design and selection have been carefully optimized and validated for maximum sensitivity and specificity.

Description	# of Slides/Samples	Part Number
GenetiSure Postnatal Research CGH+SNP Microarray, 2x400K	5 slides / 10 samples	G5974A
GenetiSure Cancer Research CGH+SNP Microarray, 2x400K	5 slides / 10 samples	G5975A
SurePrint G3 Human Genome CGH+SNP Microarray Kit, 2x400K	5 slides / 10 samples	G4842A
SurePrint G3 Human Genome CGH+SNP Bundle, 2x400K	50 samples	G5921A Option 2
SurePrint G3 ISCA CGH+SNP Microarray Kit, 4x180K	3 slides / 12 samples	G4890A
SurePrint G3 ISCA CGH+SNP Bundle, 4x180K	48 samples	G5922A Option 2
SurePrint G3 Cancer CGH+SNP Microarray Kit, 4x180K	3 slides / 12 samples	G4869A
SurePrint G3 Cancer CGH+SNP Bundle, 4x180K	48 samples	G5922A Option 3

CNV Microarrays

SurePrint G3 and HD CNV microarrays are designed to study the estimated 0.9-1.3% “normal” difference in copy number of the genomes of unrelated people. These arrays are best utilized in CNV association studies.

Description	# of Slides/Samples	Part Number
SurePrint G3 Human High-Res Discovery, 1x1M	1 slide / 1 sample	G4824A-023642
SurePrint G3 Human CNV Array, 2x400K	1 slide / 2 samples	G4825A-021365
Human Genome CNV Microarray Set, Slide 2, 1x244K	1 slide / 1 sample	G4423B-018898
Human Genome CNV Microarray Set, Slide 1, 1x244K	1 slide / 1 sample	G4423B-018897
Human CNV Association Microarray Kit, 2x105K	5 slides / 10 arrays	G4417A
SurePrint G3 Human CNV Microarray, 2x105K	1 slide / 2 samples	G4425B-022837

Custom & Unrestricted Arrays

The Agilent Custom CGH and CGH+SNP Microarray product line uses SurePrint technology to design and print user-defined microarrays. Using Agilent's SureDesign application, users can design their own microarrays to detect copy number changes and copy neutral aberrations, such as loss of heterozygosity (LOH) and uniparental disomy (UPD), on the same array.

	Description	# of Slides/Samples	Part Number
CGH	SurePrint G3 Custom CGH Microarray, 1x1M	1 slide / 1 sample	G4123A
	SurePrint G3 Custom CGH Array, 2x400K	1 slide / 2 samples	G4124A
	SurePrint G3 Custom CGH Microarray, 4x180K	1 slide / 4 samples	G4125A
	SurePrint G3 Custom CGH Microarray, 8x60K	1 slide / 8 samples	G4126A
	Unrestricted HD-CGH Microarray, 1x244K	1 slide / 1 sample	G4423B
	Unrestricted HD-CGH Microarray, 2x105K	1 slide / 2 samples	G4425B
	Unrestricted HD-CGH Microarray, 4x44K	1 slide / 4 samples	G4426B
	Unrestricted HD-CGH Microarray, 8x15K	1 slide / 8 samples	G4427B
	SurePrint G3 Unrestricted CGH, 1x1M	1 slide / 1 sample	G4824A
	SurePrint G3 Unrestricted CGH, 2x400K	1 slide / 2 samples	G4825A
	SurePrint G3 Unrestricted CGH, 4x180K	1 slide / 4 samples	G4826A
	SurePrint G3 Unrestricted CGH, 8x60K	1 slide / 8 samples	G4827A
	CGH+SNP	SurePrint G3 Custom CGH+SNP, 1x1M	1 slide / 1 sample
SurePrint G3 Custom CGH+SNP, 2x400K		1 slide / 2 samples	G4883A
SurePrint G3 Custom CGH+SNP, 4x180K		1 slide / 4 samples	G4884A
SurePrint G3 Custom CGH+SNP, 8x60K		1 slide / 8 samples	G4885A

Oligo aCGH Prehybridization Buffer

Oligo aCGH Prehybridization Buffer is used to wet and condition arrays for hybridization on a Tecan HS 400 Pro or HS 4800 Pro instrument with compatible hybridization chambers.

Description	Kit Size	Part Number
Oligo aCGH Prehybridization Buffer	1 bottle	5190-0402

Oligo aCGH/ChIP-on-Chip Hybridization Kits

Oligo aCGH/ChIP-on-Chip Hybridization Kits are designed to consistently deliver the hybridization performance your research demands. Optimized kinetics coupled with enhanced signal intensity and maximum noise reduction assures reliable data every time. Validated for use in Agilent's workflows.

Description	Kit Size	Part Number
Oligo aCGH/ChIP-on-chip Hybridization Kit	25 slides	5188-5220
Oligo aCGH/ChIP-on-chip Hybridization Kit, Large Volume	100 slides	5188-5380
Oligo aCGH Prehybridization Buffer	1 bottle	5190-0402

Cot-1 DNA

Genomic Cot-1 Human DNA is used to block repetitive elements, preventing non-specific hybridization.

Description	Kit Size	Part Number
Cot-1 Human DNA	1 kit	5190-3393

SureScan Microarray Scanner

SureScan Microarray Scanner is the foundation of Agilent's complete microarray solution and represents the state-of-the-art for scanner technology.

Description	Kit Size	Part Number
Agilent SureScan Microarray Scanner Bundle	1 bundle	G4900DA

Note: The SureScan Dx Microarray Scanner, PN G5761AA, is CE marked for *in vitro* diagnostic use in Europe. It is approved for *in vitro* diagnostic use in China, South Korea, and Singapore.

Oligo aCGH/Chip-on-Chip Wash Buffers

Oligo aCGH/ChIP-on-Chip Wash Buffer Kits are optimized and validated for consistently reliable aCGH microarray processing. The wash buffers are available in two configurations: manual processing or automated processing for Tecan instruments.

Description	Kit Size	Part Number
Oligo aCGH/ChIP-on-chip Wash Buffer Kit	1 kit	5188-5226
Oligo aCGH/ChIP-on-chip Wash Buffer 1, 4L	1 bottle	5188-5221
Oligo aCGH/ChIP-on-chip Wash Buffer 2, 4L	1 bottle	5188-5222

Oligo aCGH Wash Buffers Additive

Oligo aCGH Wash Buffer Additive is used to prepare Conditioning Solution and Wash Buffer 2 for running aCGH microarrays on a Tecan HS 400 Pro or HS 4800 Pro instrument with compatible hybridization chambers.

Description	Kit Size	Part Number
Oligo aCGH Wash Buffer Additive	1 kit	5190-0401

Stabilization & Drying Solution

Stabilization and Drying Solution substantially improves the performance of cyanine dye-labeled microarray slides by preventing both wet and dry ozone-induced cyanine 3 and 5 degradation, while optimizing microarray processing and performance.

Description	Kit Size	Part Number
Stabilization and Drying Solution	1 kit	5185-5979

Hybridization Chamber & Microarray Gasket Slides

The Microarray Hybridization Chamber improves your data by reducing signal CV % and log ratio variability, assuring proper mixing of sample during hybridization.

Description	Kit Size	Part Number
Hybridization Chamber Kit - SureHyb enabled, Stainless Chamber	1 kit	G2534A
Hybridization Gasket Slide Kit (5) - 2 microarrays per slide format	1 pack	G2534-60002
Hybridization Gasket Slide Kit (5) - 1 microarray per slide format	1 pack	G2534-60003
Hybridization Gasket Slide Kit (100) - 1 microarray per slide format	1 roll	G2534-60005
Hybridization Gasket Slide Kit (100) - 2 microarrays per slide format	1 roll	G2534-60006
Hybridization Gasket Slide Kit (20) - 1 microarray per slide format	1 pack	G2534-60008
Hybridization Gasket Slide Kit (20) - 2 microarrays per slide format	1 pack	G2534-60009
Hybridization Gasket Slide Kit (5) - 4 microarrays per slide format	1 pack	G2534-60011
Hybridization Gasket Slide Kit (20) - 4 microarrays per slide format	1 pack	G2534-60012
Hybridization Gasket Slide Kit (100) - 4 microarrays per slide format	1 roll	G2534-60013
Hybridization Gasket Slide Kit (5) - 8 microarrays per slide format	1 pack	G2534-60014
Hybridization Gasket Slide Kit (20) - 8 microarrays per slide format	1 pack	G2534-60015
Hybridization Gasket Slide Kit (100) - 8 microarrays per slide format	1 roll	G2534A-60016

Hybridization Oven

The Microarray Hybridization Oven delivers optimal hybridization performance and seamless integration.

Description	Kit Size	Part Number
Hybridization Oven	1 each	G2545A
Hybridization Oven Rotator Rack	1 rack	G2530-60029
Rotator Rack Conversion Rod	1 rack	G2530-60030

Data Analysis



Agilent CytoGenomics

Learn More at:
www.agilent.com/genomics/cyto_software

CytoGenomics software is a complete CGH and CGH+SNP microarray data analysis and data reporting solution, to streamline your day-to-day cytogenetic sample analysis research workflow. CytoGenomics is available at no additional cost to Agilent CGH microarray users. Download CytoGenomics software installer and receive a 1-year license, free of charge.

Automation

Bravo Automated Liquid Handling Platform

The Bravo Automated Liquid Handling Platform provides unparalleled versatility and precision in a compact footprint. The Agilent CGH Workstations come preconfigured from the factory with the proper deck setup and protocols so you will be ready to run, quickly and easily.

Description	Kit Size	Part Number
Bravo CGH Enzymatic+CGH+SNP (for enzymatic labeling)	1 unit	G5540A
Bravo CGH ULS (for ULS labeling)	1 unit	G5539A

Sample Quality Control



Agilent TapeStation System

Learn More at:
www.agilent.com/genomics/tapestation

The Agilent 4200 TapeStation system for true end-to-end sample quality control within any next-generation sequencing, microarray or qPCR workflow. The system offers walk away operation with fully automated samples processing. Analyse any sample number from 1 up to 96 samples.

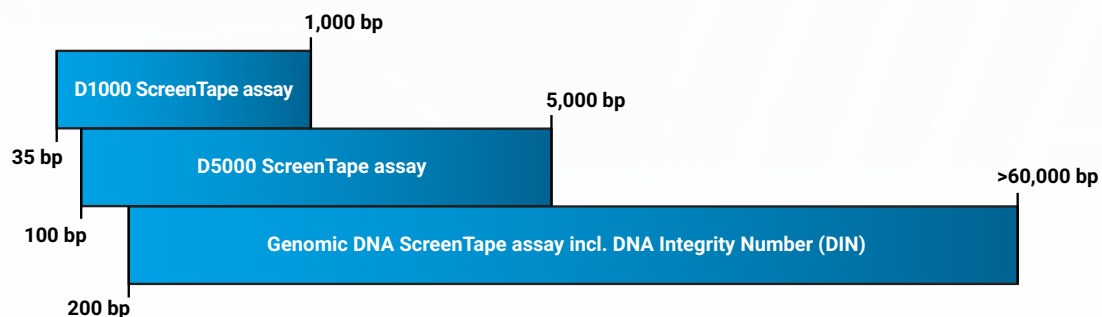
Description	Kit Size	Part Number
Agilent 4200 TapeStation System Includes 4200 TapeStation instrument, laptop PC with 4200 TapeStation software, vortexer, accessories, consumables and user information	1 system	G2991AA



Agilent 4200 TapeStation System

TapeStation DNA Consumables & Reagents

The ScreenTape assays for the 4200 TapeStation enable automated, reproducible and digital assessment of DNA size, concentration and quality. Genomic DNA ScreenTape assay provides a convenient tool to analyze the input material (DNA integrity number, DIN). Select the size range appropriate for your application.



Description	# of Slides/Samples	Part Number
D1000 ScreenTape	for 112 samples	5067-5582
D1000 Reagents	for 112 samples	5067-5583
D1000 Ladder	10 µL	5067-5586
High Sensitivity D1000 ScreenTape	for 112 samples	5067-5584
High Sensitivity D1000 Reagents	for 112 samples	5067-5585
High Sensitivity D1000 Ladder	20 µL	5067-5587
D5000 ScreenTape	for 105 samples	5067-5588
D5000 Reagents	for 105 samples	5067-5589
D5000 Ladder	10 µL	5067-5590
High Sensitivity D5000 ScreenTape	for 105 samples	5067-5592
High Sensitivity D5000 Reagents	for 105 samples	5067-5593
High Sensitivity D5000 Ladder	20 µL	5067-5594
Genomic DNA ScreenTape	for 105 samples	5067-5365
Genomic DNA Reagents	for 105 samples	5067-5366

Learn more:

www.agilent.com/genomics

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