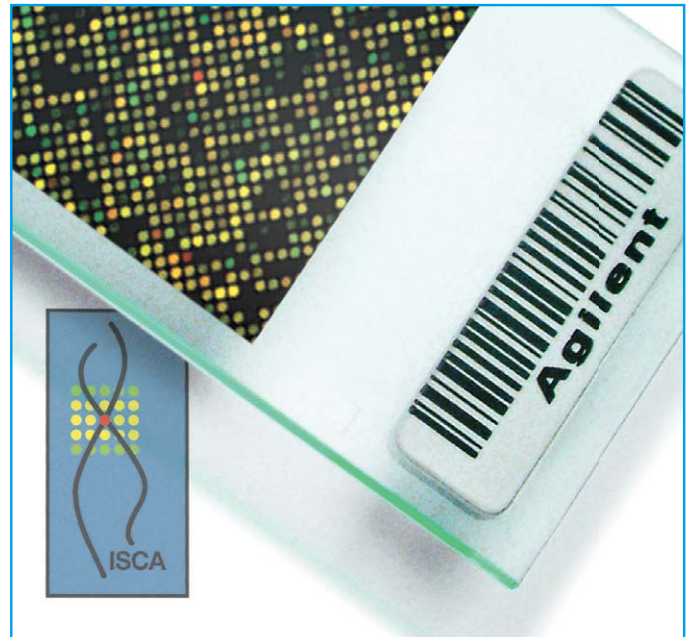




VARIANTS BETTER DEFINED



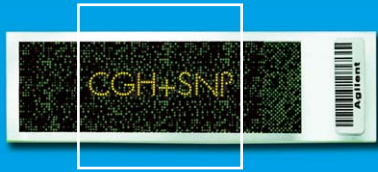
# ISCA SurePrint Microarrays

Agilent Cytogenetic Research Solution

The Measure of Confidence



**Agilent Technologies**



# From Sample to Result

CGH probes and SNP probes on one microarray!

## Choose Your Catalog ISCA Microarray

Use the ISCA microarray to discover copy number and copy-neutral genetic variations



### CGH+SNP

Description	Part Number	Number of targeted ISCA regions	Backbone probe density	LOH/UPD resolution	
CGH+SNP 4x180K	G4890A (kit of 3 slides)	~500	25 Kb	5-10 Mb	

### CGH-only

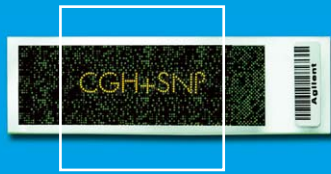
Description	Part Number	Number of targeted ISCA regions	Backbone probe density	LOH/UPD resolution	
ISCA 4x180K v2	G4826A AMADID 031748	~500	25 Kb	NA	
ISCA 8x60K v2	G4827A AMADID 031746	~500	60 Kb	NA	
ISCA 2x105K v2	G4425B AMADID 031750	~500	35 Kb	NA	
ISCA 4x44K v2	G4426B AMADID 031747	~230	75 Kb	NA	

## Design Your Custom ISCA Microarray

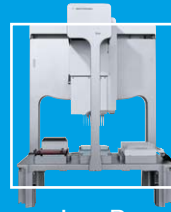
Use the ISCA targeted regions probe groups and add your own content in eArray, Agilent's free, web-based tool to create custom array designs.

<input type="checkbox"/>	Probe Group Name ▲	No. of Probes
<input type="checkbox"/>	ISCA CGH 105K backbone	80757
<input checked="" type="checkbox"/>	ISCA CGH 105K targeted regions v2	19647
<input type="checkbox"/>	ISCA CGH 180K backbone	125061
<input checked="" type="checkbox"/>	ISCA CGH 180K targeted regions v2	21445
<input type="checkbox"/>	ISCA CGH 44K backbone	40161
<input checked="" type="checkbox"/>	ISCA CGH 44K targeted regions v2	2934
<input type="checkbox"/>	ISCA CGH 60K backbone	40208
<input checked="" type="checkbox"/>	ISCA CGH 60K targeted regions v2	18851
<input type="checkbox"/>	ISCA CGHplusSNP 180K backbone	91834
<input checked="" type="checkbox"/>	ISCA CGHplusSNP 180K targeted regions v2	18878

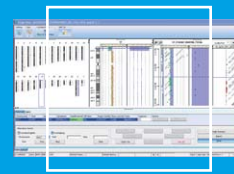
Visit: <https://earray.chem.agilent.com>



ISCA CGH+SNP  
Microarrays

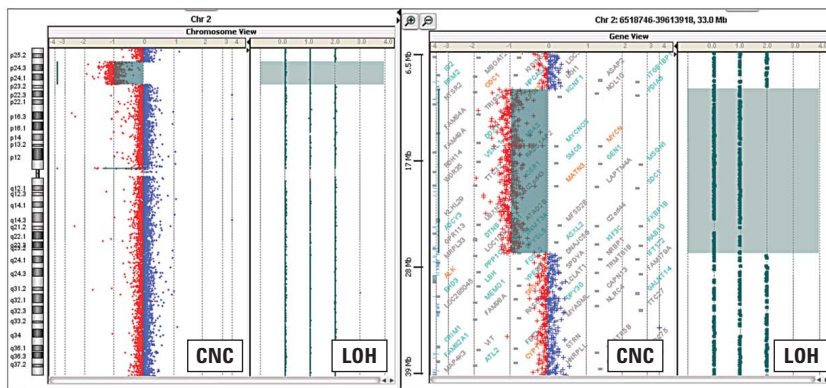


Processing Reagents  
and Hardware

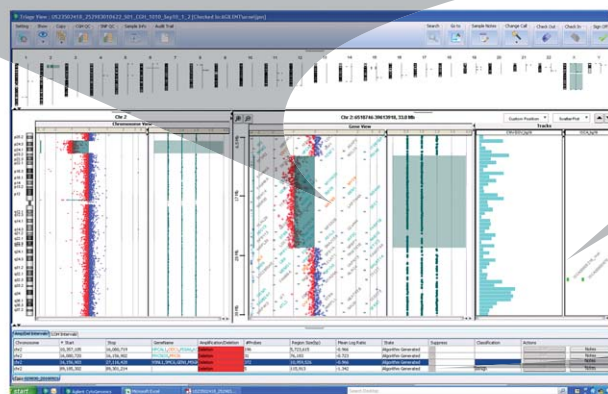
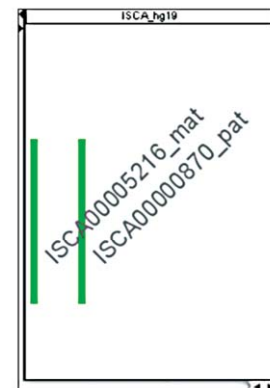


Agilent CytoGenomics  
Analysis Software

### Visualization of CNC and LOH data



### Import tracks from UCSC, ISCA, ...



### Suppress, edit or annotate calls

Suppress	Classification	Actions
<input type="checkbox"/>		Edit Notes
<input checked="" type="checkbox"/>	Benign	Edit Notes

Download free trial at <https://earray.chem.agilent.com>

## Agilent CytoGenomics Software:

Designed specifically for cytogenetic research

- Data comparison to external databases including OMIM and DGV
- Search and compare with your in-house database
- Automation of TIFF image upload, feature extraction, and analysis
- Generate custom reports
- Streamlined analysis of normal constitutional samples, in less than 5 minutes

# Comprehensive Portfolio of Processing Reagents and Hardware\*



## Agilent SurePrint G3 CGH+SNP Microarrays

Description	Area of Focus	Part Number
SurePrint G3 Human CGH+SNP Microarray 4x180K	ISCA	G4890A
SurePrint G3 Human CGH+SNP Microarray 2x400K	Genes and exons	G4842A
SurePrint G3 Custom CGH+SNP Microarray 1x1M	User-defined	G4882A
SurePrint G3 Custom CGH+SNP Microarray 2x400K	User-defined	G4883A
SurePrint G3 Custom CGH+SNP Microarray 4x180K	User-defined	G4884A
SurePrint G3 Custom CGH+SNP Microarray 8x60K	User-defined	G4885A

## Reagents

Processing Step	Product Name	Part Number
Sample Labeling	Genomic DNA Enzymatic Labeling Kit	5190-0449
Sample Hybridization	Oligo aCGH/ChIP-on-chip Hybridization Kit (25) or (100)	5188-5220 or 5188-5380
	Human Cot-1 DNA	5190-3393
Microarray Wash	Oligo aCGH/ChIP-on-chip Wash Buffer Kit	5188-5226

## Hardware

Hardware Type	Product Name	Part Number
DNA Microarray Scanner	DNA Microarray Scanner	G2565CA
Hybridization Oven & Accessories	Hybridization Oven	G2545A
	Hybridization Chamber Rotator Rack	G2530-60029
Hybridization Chamber & Accessories	SureHyb Hybridization Chamber – Stainless	G2534A
	Hybridization Backing Kit	Varies by array format and quantity
	Ozone-Barrier Slide Cover Kit	G2505-60550
Liquid Handler	Bravo Automated Liquid Handling Platform	G5409A Option 002

## Software

Processing Step	Product Name	Part Number
Data Analysis	CytoGenomics Software	G1662AA-G1667AA

\* Agilent microarrays, reagents and scanner are manufactured under ISO13485 certification.

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