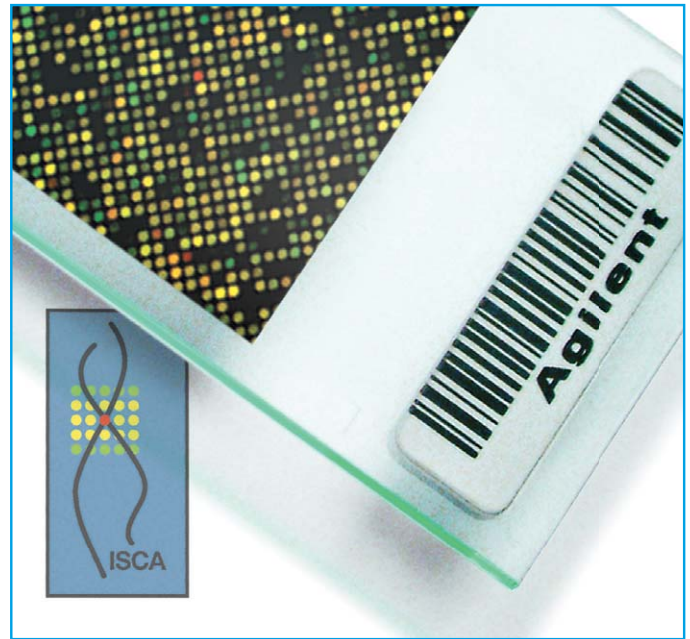




VARIANTS BETTER DEFINED



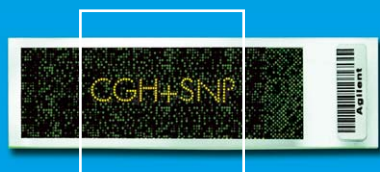
ISCA SurePrint Microarrays

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

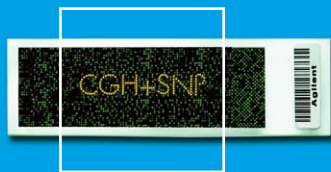


Design Your Custom ISCA Microarray

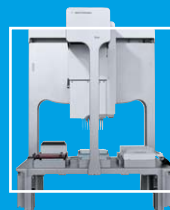
Use the ISCA targeted regions probe groups and add your own content in eArray, Agilent's free, web-based tool to create custom array designs.

☐	Probe Group Name ▲	No. of Probes
☐	ISCA CGH 105K backbone	80757
☒	ISCA CGH 105K targeted regions v2	19647
☐	ISCA CGH 180K backbone	125061
☒	ISCA CGH 180K targeted regions v2	21445
☐	ISCA CGH 44K backbone	40161
☒	ISCA CGH 44K targeted regions v2	2934
☐	ISCA CGH 60K backbone	40208
☒	ISCA CGH 60K targeted regions v2	18851
☐	ISCA CGHplusSNP 180K backbone	91834
☒	ISCA CGHplusSNP 180K targeted regions v2	18878
Share Compare Create Microarray Move		

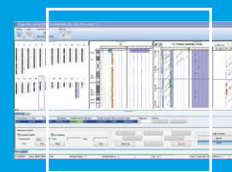
Visit: <http://www.e-array.com>



ISCA CGH+SNP
Microarrays

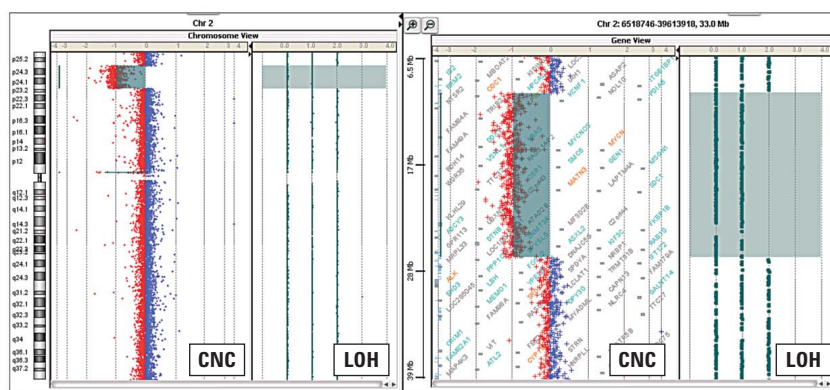


Processing Reagents
and Hardware

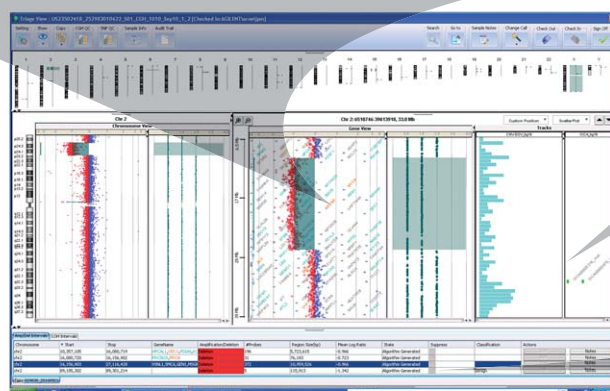
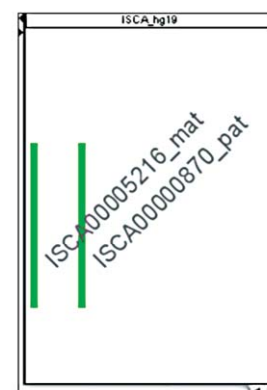


Agilent CytoGenomics
Analysis Software

Visualization of CNC and LOH data



Import tracks from UCSC, ISCA, ...



Suppress, edit or annotate calls

Suppress	Classification	Actions	
☐		Edit	Notes
☐		Edit	Notes
☒	Benign	Edit	Notes

Download free trial at <http://www.e-array.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	SureTag Complete DNA Labeling Kit	5190-4240
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	SureScan Microarray Scanner	G4900DA
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	Agilent CytoGenomics	G1662AA–G1667AA

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

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