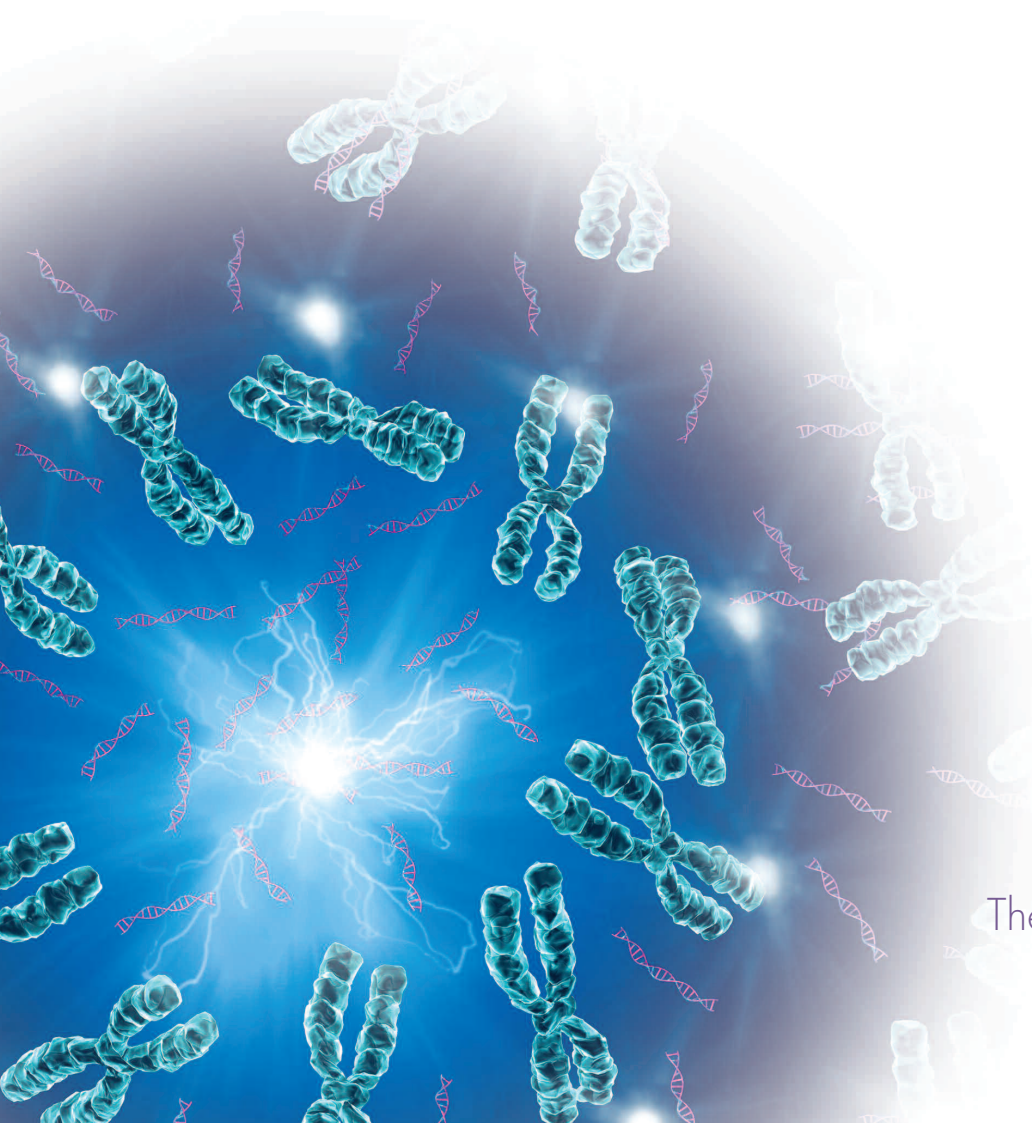




CytoSure™

The only array CGH platform with the power of **Interpret**
High quality data on CytoSure oligonucleotide arrays
Effortlessly translated into meaningful results



CytoSure
From sample to result
The complete array solution
for cytogenetics

Proven Technology. Exceptional Tools

The unique benefits of using long oligonucleotide aCGH arrays for the detection of chromosomal aberrations are well acknowledged: high resolution coverage of the genome in a single assay, sensitive detection of duplications and deletions, accurate breakpoint determination, confidence in results.

Until now, the challenges of implementing oligo aCGH in the laboratory have been significant: choosing appropriate genome coverage, handling large data sets, interpretation and validation of positive aberrations, correlating genotypic findings with known clinical phenotypes.

At OGT, we take pride in being responsive to your needs:

- We were the first to introduce dedicated oligonucleotide arrays and analysis software designed by cytogeneticists for cytogeneticists.
- In our genomic services laboratory, we have run tens of thousands of aCGH arrays¹. This unique experience and consistent delivery of high quality results means that we understand what it takes to get you up and running, whatever your throughput. We provide easy to use, powerful tools, with full on-site training and comprehensive ongoing support.
- Working with the ISCA Consortium* to design the most powerful arrays using evidence based standards, and provide them in flexible formats to meet your sample throughput and budget needs.
- Most importantly, we understand the importance of your results. Not just high quality data. With ongoing consultation, we developed CytoSure™ Interpret Software, a dedicated cytogenetics analysis package which gets you to your result simply and quickly. CytoSure Interpret Software is the main reason so many labs are choosing CytoSure.

*The International Standard Cytogenomic Array (ISCA) Consortium: a group of clinical cytogenetics laboratories committed to establishing clear aCGH format guidelines

Your array. Your choice

Choose your array depending on your:

- scanner (high resolution or 5µm)
- sample multiplexing requirements
- desired resolution or chromosome / syndrome / gene coverage

CytoSure ISCA

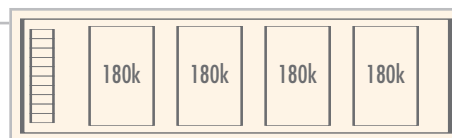
Focus on specific syndromes while covering the whole genome

High resolution scanner

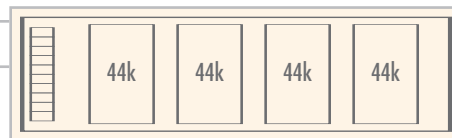


CytoSure ISCA (8 x 60k)

5µm scanner



CytoSure ISCA (4 x 180k)



CytoSure ISCA (4 x 44k)

CytoSure Chromosome X

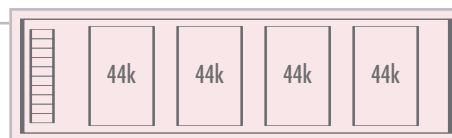
For full coverage of the X chromosome

High resolution scanner

or 5µm scanner



CytoSure Chromosome X (2 x 105k)



CytoSure Chromosome X (4 x 44k)

CytoSure DMD*

Provides coverage of the entire Duchenne muscular dystrophy gene

High resolution scanner

or 5µm scanner



CytoSure DMD (4 x 44k)

*CytoSure DMD is not available in the USA.

Start with high quality CytoSure data...

Not every sample is the same. Not every cytogenetics lab is the same. OGT CytoSure offers a range of array formats, allowing you to decide what works best for your workflow, sample numbers and budget. We designed our new CytoSure ISCA arrays in collaboration with the International Standard Cytogenomic Array (ISCA) Consortium, to offer standardised, evidence-based formats to the cytogenetics community. You can also choose from our non-ISCA array range, covering a wide variety of content, from single disorders to complex syndrome and whole genome analysis.

Every CytoSure ISCA array provides:

- ✓ Confident detection of syndrome-related aberrations through ISCA-endorsed high density probe coverage of disease and syndrome relevant regions
- ✓ Reliable detection of other aberrations through high resolution whole genome coverage
- ✓ A ready-to-run solution with a range of formats to suit your resolution, multiplexing and budget requirements; from 44k to 180k probes per array, 2-8 samples per array
- ✓ Accurate results with high signal to noise ratios using proven 60-mer oligonucleotide technology²

"OGT Interpret Software is the best, very well done, incredibly easy to use"

a Danish routine cytogenetic lab perspective

CytoSure ISCA arrays are used at a number of key facilities, including the Wessex Regional Genetics Laboratory, Salisbury, UK, where they were evaluated as part of an ongoing multi-platform aCGH comparison.



For more detailed information on CytoSure arrays, including probe densities and syndrome coverage, please refer to the table on page 7 or the CytoSure array data sheets which can be found on our website at www.ogt.co.uk.

...translate into meaningful results with Interpret

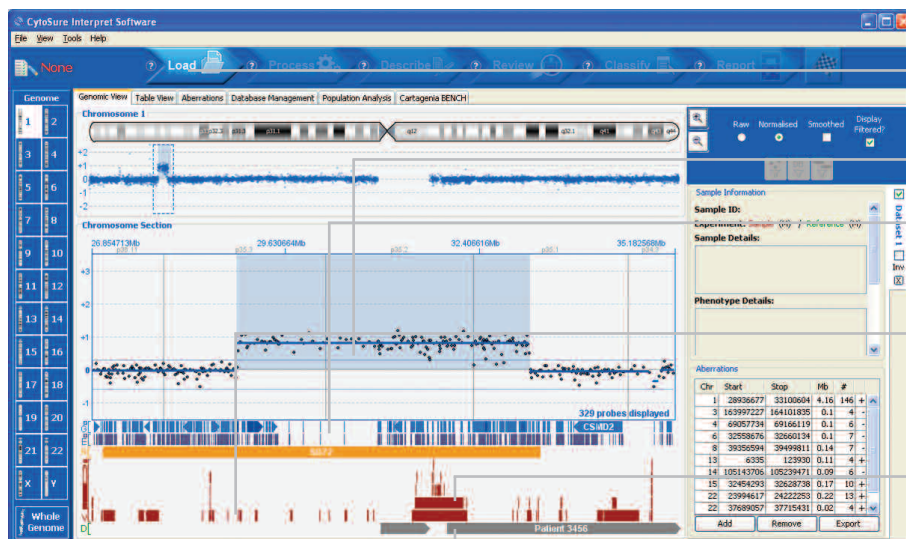
Running the array is just the start. Getting quickly to a meaningful result is what matters. CytoSure Interpret Software is (according to its users) the most powerful, flexible and easy to use software solution for aCGH.

CytoSure Interpret Software allows you to:

- ✓ Automatically identify aberrations with confidence
- ✓ Link aberrations with a single click to external databases to show information on that chromosome region and put them into context with known anomalies and associated phenotypes
- ✓ Clearly visualise your data to see what's happening by customising your screen layout
- ✓ Include data from legacy or collaborator samples
- ✓ Store sample and aberration information in your own database, and share it with anyone on your network
- ✓ Include additional features that will be useful in your lab through our responsive development team and regular software updates

"I have been extremely impressed with the ease-of-use and flexibility of the software. In our experience, OGT is very responsive to customer feedback and they have already implemented several of our suggested improvements. OGT has indeed produced an excellent software package that should become a useful tool for cytogeneticists and molecular geneticists"

Dr Agne Liedén,
Karolinska Institute



Accelerate workflow leads you through the process from sample loading to reporting

Automated aberration calling

Chromosome, gene and exon information

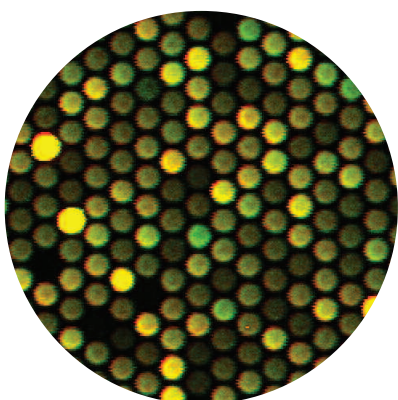
Single-click link to Database for Genomic Variation (DGV) for normal population CNV data

Single-click link to DECIPHER for known patient aberration and phenotype information

Build your own aberration database

Discover the power of CytoSure Interpret Software when you purchase CytoSure arrays or request a demo version by email at products@ogt.co.uk. For more information about CytoSure Interpret Software, download the product flyer at www.ogt.co.uk/cytosure_resources.html

From sample to result...



Exceptional training and support

Supporting you through the decision-making process and helping you to run CytoSure successfully in your own lab. Visit our state of the art laboratories to see CytoSure in operation. Access our team of highly experienced scientists for advice and support by email and telephone.



Cytogenetics-approved CytoSure array designs

Proven 60-mer oligonucleotide array performance

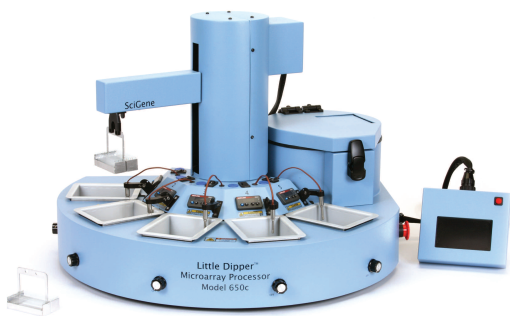
Get the very best data from every data point on every array. Long oligos have been proven to offer superior detection sensitivity and specificity in comparison to short oligo platforms, giving you confidence in every data point collected².



Simple assay workflow: Genomic DNA Labelling Kit

Full automation options*

OGT's partnership with SciGene helps you automate the entire microarray workflow. Save hands-on time, improve reproducibility and lower costs. From sample preparation to array hybridisation, washing and drying. Find out more at www.ogt.co.uk/cyotoscigene.html



Powerful, rapid data analysis: CytoSure Interpret Software

*SciGene products are available in Europe through OGT. For enquiries outside Europe, please contact SciGene directly at www.scigene.com

...CytoSure provides everything you need

Selection Guide

Application	No. of arrays/slide	No. of probes	Genome/backbone probe density	No. of targeted regions	Scanner compatibility	Product name
Whole genome screening	8	60,000	Probe every 60kb	498	High res.	CytoSure ISCA v2 (8x60k)
Whole genome screening	4	180,000	Probe every 25kb	501	High res.	CytoSure ISCA v2 (4x180k)
Whole genome screening	4	44,000	Probe every 75kb	140	High res. & 5 µm	CytoSure ISCA (4x44k)
Whole genome screening	2	105,000	Probe every 40kb	610	High res. & 5 µm	CytoSure Syndrome Plus v2 (2x105k)
Duchenne muscular dystrophy*	4	44,000	N/A	1	High res. & 5 µm	CytoSure DMD (4x44k)
X chromosome analysis	2	105,000	Probe every 1.6kb	1118	High res. & 5 µm	CytoSure Chromosome X (2x105k)
X chromosome analysis	4	44,000	Probe every 4kb	1118	High res. & 5 µm	CytoSure Chromosome X (4x44k)

Ordering Information

Product	Contents	Cat. Number
ISCA and Syndrome Plus arrays		
CytoSure ISCA (4x44k)	Microarray with four arrays of 44,000 spots; CytoSure Interpret Software	020012
CytoSure ISCA v2 (4x180k)	Microarray with four arrays of 180,000 spots; CytoSure Interpret Software	020029
CytoSure ISCA v2 (8x60k)	Microarray with eight arrays of 60,000 spots; CytoSure Interpret Software	020040
CytoSure Syndrome Plus v2 (2x105k)	Microarray with two arrays of 105,000 spots; CytoSure Interpret Software	020019
Chromosome X arrays		
CytoSure Chromosome X (2x105k)	Microarray with two arrays of 105,000 spots; CytoSure Interpret Software	020021
CytoSure Chromosome X (4x44k)	Microarray with four arrays of 44,000 spots; CytoSure Interpret Software	020015
Duchenne muscular dystrophy array		
CytoSure DMD (4x44k)*	Microarray with four arrays of 44,000 spots; CytoSure Interpret Software	020023
Aneuploidy array		
CytoSure Aneuploidy (8x15k)	Microarray with eight arrays of 15,000 spots; CytoSure Interpret Software	020024
Genomic DNA Labelling		
CytoSure Genomic DNA Labelling Kit	24 reactions: clean-up columns, dyes, nucleotide mix, random primers, enzyme, collection tubes	020020
Analysis Software		
CytoSure Interpret Software	Class leading microarray analysis software provided with CytoSure arrays. Email products@ogt.co.uk to request your demo version.	020022

*The CytoSure DMD array can be used to investigate deletions and duplications associated with Duchenne and Becker's muscular dystrophy (BMD). Not available in the USA.

For more information

Visit our website at www.ogt.co.uk or contact your local OGT representative for more information, including data sheets, a complete list of syndromes and diseases covered by each array, and further technical information on kits and software.

References

1. Conrad, D.F. *et al* (2009) Nature doi:10.1038/nature08516
2. Curtis, C. *et al* (2009) BMC Genomics 10, 588

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