

BlueGnome Limited



CytoChip Oligo

Model number	4080-1	2x105K
	4080-3	ISCA 4x44K
	4080-4	ISCA 4x180K
	4080-5	ISCA 8x60K

1. Supply

CytoChip Oligo microarrays are supplied in packs of four slides packaged in a slide box inside a vacuum-packed foil bag. Each slide is labelled with a unique barcode. The foil bag is labelled with product name and version, expiry date, product number, lot number, and barcodes for each slide and the pack.

2. Size

Each pack contains four slides. Depending on the design chosen, each pack is suitable for 8 (4080-1), 16 (4080 -3, -4) or 32 (4080-5) single hybridizations.

3. Storage

CytoChips are supplied at room temperature, desiccated and protected from light. They should be stored desiccated, protected from light, and at room temperature until required.

CytoChips must be used before the expiry date.

4. Description

CytoChip Oligo microarrays are designed to be used in array comparative genomic hybridization experiments (arrayCGH) where differently fluorescently labelled test and reference DNA's are competitively hybridized to immobilized probes in order that regions of copy number imbalance can be identified.

CytoChip Oligo arrays are created using an in-situ, high-density, inkjet printing process that synthesizes oligonucleotides of 45 to 60 bases in length directly on to glass slides. The active side of the slide is labelled 'Agilent'.

Each array probe is designed to avoid repetitive sequences in the human genome.

Each of the CytoChip Oligo arrays has a constitutional disease focused design. The 2x105K array has tiling of 20 probes over 137 OMIM disease loci (for a detailed list of regions please see CytoChip disease regions at www.cytochip.com). For information regarding the ISCA (International Standard Cytogenetic Array) designs please refer to: Baldwin et al. (2008), Genetics in Medicine, Jun;10(6):415-29 and <https://isca.genetics.emory.edu/iscaBrowser/index.jsp>.

The specifications of each CytoChip Oligo array design are listed in the table below:

	2x105K	ISCA 4x44K	ISCA 4x180K	ISCA 8x60K
Product number	4080-1	4080-3	4080-4	4080-5
Features/microarray	105,072	45,015	181,873	62,976
Backbone resolution	30 Kb	75 Kb	25 Kb	60 Kb

