

Table 1: Technical Specifications

Catalog No.	Description	Design (Design ID)	Unique Probes	Targeted Regions*	Average Spacing/ Replication	Spike-in Controls
PR-23-438006-00	CytoChip Oligo SNP 4x180K v1.0	ISCA† v2.0 plus SNP (33485)	147,790 CGH plus 26,551 SNP	500 plus 10 Mb LOH/UPD	20 Kb/x1	Yes

*Regions were targeted using the best genome build information available at the time of the design creation.

†All ISCA design targets were provided by the ISCA consortium on genome build 36.

Software Specifications

The earliest version of BlueFuse® Multi software that supports the identification of CytoChip Oligo Spike-in Controls is v3.1. Subsequent versions of the software will support CytoChip Oligo Spike-in Controls.

The annotation databases used by BlueFuse Multi software during microarray analysis are regularly updated with new array types and annotation information, and can be downloaded from the customer area of the Illumina website.

Quality Control

CytoChip Oligo SNP arrays undergo a quality control procedure at the site of manufacture.

A slide is taken from either the first lot of slides ordered or from every lot ordered (see Table 2) and hybridized with labeled male versus female control DNA using standard CytoChip Oligo protocols. Hybridized images are then visually checked for printing artifacts and the processed data are assessed for signal, noise, dynamic range, and X and Y chromosome log₂ ratio.

Each lot of the SureLabel32SNP [dUTP] Fluorescent Labeling System and COT Human DNA are checked for performance in hybridizations.

Metrics, including signal-to-noise ratio, the spread of data points on the autosomal chromosomes, and the shift from 0 (log₂ scale) of data points on the sex chromosomes are used as measures of quality. They have to exceed a threshold set from historical data.

To make sure that components of the SureLabel32SNP [dUTP] Fluorescent Labeling System are supplied with the correct quantities, three kits from each lot are checked for reagent fill volumes.

Stock Control, Delivery Dates, and Expiration

Illumina operates a sophisticated stock control procedure to ensure reliable supplies of critical components while maximizing useful life. To achieve this, each microarray model number is classified as a volume, high-volume, or special product. For each product, Illumina commits to a target delivery date and a guaranteed delivery date as summarized in Table 2. The information in this table is relevant to the microarray slides. All pack components are shipped at the same time.

Contents

See Table 3 for a complete list of kit contents and part numbers.

Table 2: Stock Control, Delivery, and Expiration

Catalog No.	Description	Classification	Target Delivery	Guaranteed Delivery	Minimum Expiration	QC Process
PR-23-438006-00	CytoChip Oligo SNP 4x180K v1.0	Volume	14 days	45 days	3 months	1 slide from first lot

Table 3: CytoChip Pack Contents

Catalog No.	Description	No. Samples	Part No.	Description
PR-11-448006-PK	CytoChip Oligo SNP	16	15043054	CytoChip Oligo SNP 4x180K v1.0 inc. gaskets (4 slides)
	4x180K v1.0 SNP DNA		15043144	SureLabel32SNP [dUTP] FLS (32 rxns) part 1
	Pack		15043142	Fluorescent Labeling System [dUTP] (32 rxns) part 2
			15043146	SureLabel32SNP [dUTP] FLS (32 rxns) part 3
			15043063	COT Human DNA (0.2 mg)

Safety Information

Safety data sheets are available for download from www.cambridgebluegenome.com.

- PR-4080/4081/4381/4380: CytoChip Oligo
- PR-30-413437-00: SureLabel32SNP [dUTP] Fluorescent Labeling System part 1
- PR-30-413401-00: Fluorescent Labeling System (dUTP) part 2
- PR-40-413503/413510: COT Human DNA

Additional Documents

Additional documents available for download include:

- CytoChip Oligo Reference Manual
- CytoChip Oligo Summary Protocol
- Annotation database for BlueFuse Multi (for all microarray formats)
- A GAL file for each of the CytoChip Oligo array designs
- Quality control documents for each microarray design

Ordering Information

Product	Catalog No.	No. Samples
CytoChip Oligo SNP 4x180K v1.0 SNP DNA Pack	PR-11-448006-PK	16

AAAGAATGATAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCA
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