

96.96 Dynamic Array™ IFC – SNP Genotyping

The Fluidigm 96.96 Dynamic Array IFC – SNP Genotyping provides the flexibility of a microwell plate and the density of a microarray in one easy-to-use, consumable integrated fluidic circuit (IFC).

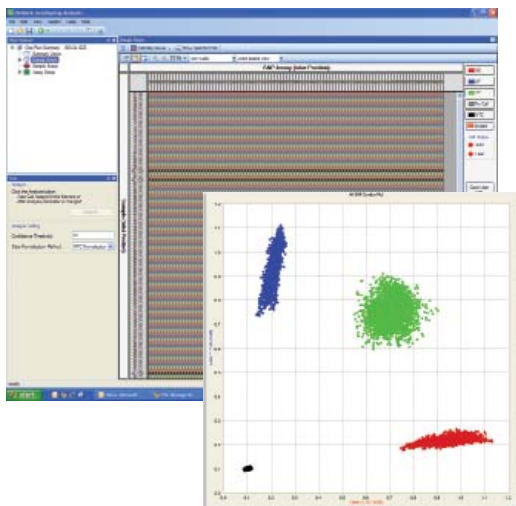
The Key Benefits –

- Easy multiplexing of 96 primer-probe sets against 96 samples
- 9,216 individual data points per Dynamic Array IFC
- 192 liquid-transfer steps per 9,216 reactions, with complete setup flexibility

The New Standard in High Throughput SNP Genotyping

Fluidigm Dynamic Array IFCs radically reduce the cost per data point and time to results while radically raising the bar for parallel throughput. The chart below shows parameters to complete a study of 2,000 samples against 96 genes using 384-well plates compared to 96.96 Dynamic Array IFCs:

	384-WELL MICROPLATES	96.96 DYNAMIC ARRAY IFCs
TOTAL RUNS	500	21
REACTIONS PER RUN	384	9,216
TOTAL LIQUID-TRANSFER STEPS	384,000	4,032
TOTAL MASTER MIX	960 ml	5.1 ml



SNP genotyping results may be viewed as an allele map and as a cluster diagram showing 9,216 reactions per run.

The Power of Microfluidics

With a Dynamic Array IFC, high-throughput multiplexing is easy because the microfluidic architecture does the work of combining samples and primer-probe sets into 9,216 PCR reactions. That's twenty-four times more data than is produced by a 384-well plate. This radical advance in experiment density is fully leveraged through a hardware/software system that automates setup and data analysis.

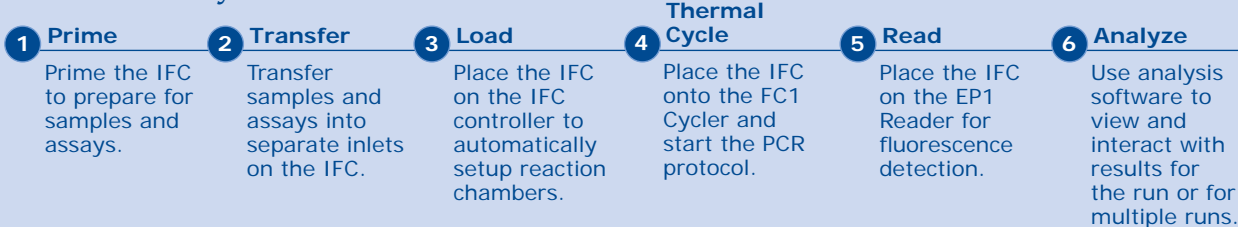
Specifications

PARAMETER	
Assay transfer rate	98.00 %
Call accuracy	99.75 %
Call rate	99.00 %
Chip footprint	128 mm x 85 mm x 14 mm
Inlet spacing on input frame	4.5 mm pitch
Liquid transfer steps	192
Primer-probe inlets	96
Sample inlets	96
Reaction chambers	9,216
Instrument compatibility	EP1 Reader, IFC Controller HX, FC1 Cyclor

Fluidigm System for Genetic Analysis

- **Dynamic Array™ IFCs**
Consumable IFCs for high-throughput gene expression analysis and SNP genotyping.
- **Digital Array™ IFCs**
Consumable IFCs for digital PCR.
- **IFC Controller**
Integrated hardware/software for loading IFCs.
- **FC1™ Cyclor**
Integrated hardware/software for thermal cycling of IFCs.
- **EP1™ Reader | Real-Time PCR System**
Integrated hardware/software for detection of fluorescent signal within IFCs.
- **Software Suite**
Analysis software for gene expression analysis, SNP genotyping, and digital PCR.
- **Service Plans**
Hardware service and software maintenance plans.

Fast and Easy Work Flow



For Use with Gold-Standard PCR Assays

Fluidigm systems run licensed 5' nuclease assays, so they integrate easily into established workflow. The footprint of the Dynamic Array IFC and spacing of fluid inlets comply with SBS* standards, so the laboratory may continue to use existing liquid-handling equipment. Fluidigm has adopted SBS standards for all of its systems, ensuring compatibility of the instrumentation with higher density arrays in future releases.



Corporate Headquarters

Fluidigm Corporation
7000 Shoreline Court, Suite 100
South San Francisco, CA 94080 USA
Toll-free: 1.866.FLUIDLINE
Fax: 650.871.7152
www.fluidigm.com

Sales

North America
650.266.6170 | biomark@fluidigm.com
Europe/EMEA
+33 1 60 92 42 40 | biomark@fluidigm.com
Japan/Korea
+81 3 3555 2351 | biomarkasia@fluidigm.com
Asia
biomarkasia@fluidigm.com

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Fluidigm recommends that you only purchase TaqMan® dual-labeled probes and/or other licensed PCR assay reagents from authorized sources.

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* The Society for Biomolecular Sciences