

192.24 Dynamic Array™ IFC

KEY BENEFITS

- Outstanding Quality—99% call rate and 99.75% accuracy
- Accelerated Workflow—delivers 4,608 SNPs in one hour
- Low cost per data point—uses fewer SNP assays against high number of samples

The Fluidigm 192.24 Dynamic Array Integrated Fluidic Circuit (IFC) provides the ideal solution for high sample throughput SNP genotyping. It is designed to genotype 192 samples against 24 SNP assays in a single run and incorporates innovative design features to greatly increase sample throughput, provide outstanding data quality, and an accelerated workflow.

Outstanding Data Quality

Fluidigm Dynamic Array IFCs have a proven history of providing outstanding data quality and the 192.24 Dynamic Array IFC continues that tradition. Call rates of 99 percent or higher and accuracy of 99.75 percent or higher can be routinely achieved. Additionally, existing SNP genotyping assays can be used.

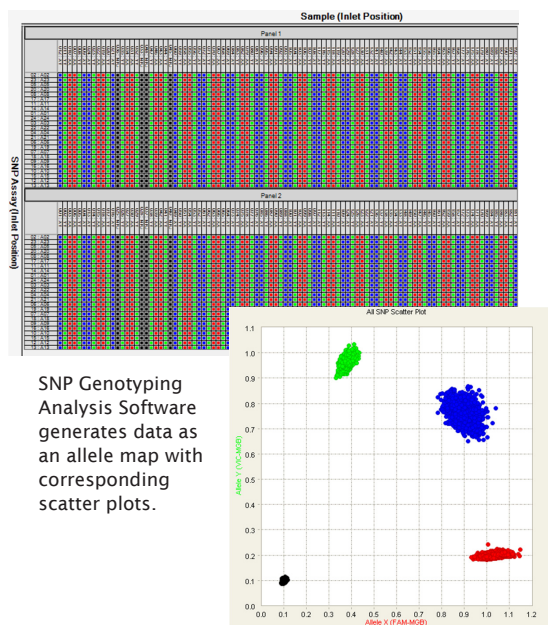
Accelerated Workflow

The 192.24 Dynamic Array IFC's new flow-through design allows for ultra-fast loading and thermal cycling, resulting in a greatly accelerated workflow. Genotyping results can be obtained in about **one hour*** and five times more IFCs can be run in a single day. Up to sixteen 192.24 chips can be run in one day enabling users to process over **3,000 samples**.

Lower Genotyping Costs

The 192.24 Dynamic Array IFC requires minimal reagents and lowers running costs because each reaction volume is only eight nanoliters. It is also designed to automatically assemble reactions to minimize the number of pipetting steps required **by up to 100-fold**.

* The FC1™ Cycler or the BioMark™ HD System is required to attain fast thermal cycling rates.



SNP Genotyping Analysis Software generates data as an allele map with corresponding scatter plots.

FAST AND EASY WORKFLOW

- 1 Transfer**
Easily transfer samples and assays into the IFC using standard SBS⁺ formats.
- 2 Load**
Place the IFC on the IFC Controller RX to automatically set up reaction chambers.
- 3 Thermal Cycle**
Place the IFC onto the FC1 Cyclers and start the PCR protocol.
- 4 Read**
Place the IFC on the EP1 Reader or BioMark HD Reader for fluorescence detection.
- 5 Analyze**
Use analysis software to view and interpret results.

SPECIFICATIONS

Parameter

Number of uses per IFC	1
Call rate	99.00% or greater
Call accuracy	99.75% or greater
Chip footprint	128 mm x 85 mm x 14 mm
Inlet spacing on input frame	4.5 mm pitch
Assay inlets	24
Sample inlets	192
Reaction chambers	4,608
Instrument compatibility	EP1 Reader, BioMark HD System, IFC Controller RX, FC1 Cycler

ORDERING INFORMATION

Product	P/N
192.24 Dynamic Array IFC for SNP Genotyping	BMK-M-192.24GT
IFC Controller RX (192.24)	IFC-RX
192.24 GT + Sample/Loading Kit - 10 Chip Package	BMK-M10-192.24GT
GT 192.24 Dynamic Array Sample & Assay Loading Reagent Kit - 10 Chips	100-3459

● FLUIDIGM SOLUTIONS FOR GENETIC ANALYSIS

- **BioMark™ HD System**
Integrated hardware/software for gene expression, genotyping and digital PCR using IFCs
- **EP1™ Reader**
Integrated hardware/software for genotyping and digital PCR using IFCs
- **IFC Controller RX**
Integrated hardware/software for loading IFCs
- **FC1™ Cycler**
Integrated hardware/software for thermal cycling of IFCs
- **Reusable Dynamic Array™ IFCs**
Reusable IFCs for high-throughput SNP genotyping
- **Dynamic Array™ IFCs**
Consumable IFCs for high-throughput gene expression analysis and SNP genotyping
- **Digital Array™ IFCs**
Consumable IFCs for digital PCR
- **Software Suite**
Analysis software for gene expression analysis, SNP genotyping, and digital PCR
- **Service Plans**
Hardware service and maintenance plans

⁺ The Society for Biomolecular Sciences

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FOR RESEARCH USE ONLY.

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