DELTAgene™ Assays

Fluidigm DELTAgene Assays are high-quality, rapid turnaround qPCR gene expression assays. They permit you to take full advantage of your BioMark™ HD System with minimal experiment setup time and validated protocols that provide quality results.

Flexible groups of biologically-related genes are available for your specific requirements; there is no need to use fixed content. Simply provide us with your genes of interest (via RefSeq IDs) and the target species. All assays are ready-to-use via Fluidigm standard protocols. Assays are offered with or without wet-lab testing. We recommend using the second generation EvaGreen® dsDNA binding dye.

**KEY BENEFITS**

- High quality—sensitivity and linearity similar to probe-based assays
- MIQE* compliant—assay primer sequences provided
- Cost savings—low startup and running costs

**PRODUCT DETAILS**

- Primers sufficient for >100 chips; supplied in a 96-well plate
- Amplicons designed to cross an intron wherever possible (avoid amplifying genomic DNA)
- Minimum of 48 assays are designed to any RefSeq including human, mouse and rat
- Single-cell gene expression protocols available
- Turnaround time is three weeks for bioinformatically tested assays and six weeks for wet-lab tested assays
- Will design custom panels/pathways upon request

* Minimum Information for Publication of Quantitative Real-Time PCR Experiments

**Example Data:** 1, 10 and 100 cell, custom EvaGreen® Assay Linearity Data (triplicates shown)
FLUIDIGM SOLUTIONS FOR GENETIC ANALYSIS

- **DELTAgene Assays**
  Custom assays designed for the BioMark™ HD System

- **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™ Cycler**
  Integrated hardware/software for thermal cycling of IFCs

- **Software Suite**
  Analysis software for gene expression analysis, and automatic incorporation of Cq

**ORDERING INFORMATION**

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<th>Product</th>
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<tr>
<td>DELTAgene Assays (wet tested)</td>
<td>ASY-GE-WET</td>
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<tr>
<td>DELTAgene Assays (not wet tested)</td>
<td>ASY-GE</td>
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Biologically grouped assays are available for selection to build panels of your choice. Visit www.fluidigm.com for more details.

**WORKFLOW**

1. **Assay Design**
   Fluidigm DELTAgene Assays are bioinformatically tested. Wet testing is optional.

2. **Prime**
   Prime the Dynamic Array IFC to close the interface valves, preventing premature mixing of samples and assays.

3. **Transfer**
   Pipette samples, premixed with master mix, into separate sample inlets and the primer sets into separate inlets on the IFC.

4. **Load**
   Place the Dynamic Array IFC on the IFC Controller, and load the assay components into reaction chambers. Assay components are automatically combined on chip.

5. **Run**
   Place the Dynamic Array IFC on the BioMark HD System for thermal cycling and fluorescence detection.

6. **Analyze**
   Use real-time qPCR Analysis software to view and to interact with amplification curves, color-coded heat maps, and Cq data for the run.

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FOR RESEARCH USE ONLY.

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