DELTAgene™ Assays

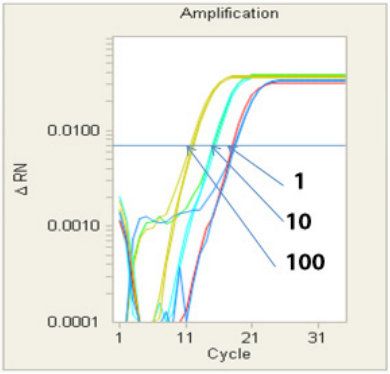
KEY BENEFITS

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

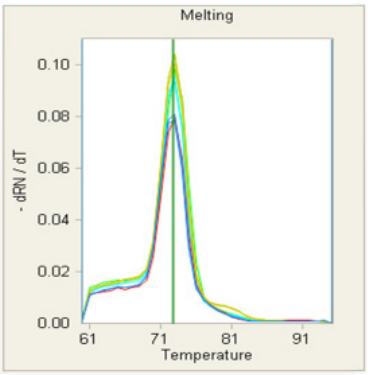
Fluidigm DELTAgene Assays are high-quality, rapid turnaround qPCR gene expression assays. They permit you to take full advantage of your BioMark™ HD System with minimal experiment setup time and validated protocols that provide quality results.

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.

C_q difference between 1, 10 and 100 cells easily distinguished



Single T_m Peak



Example Data: 1, 10 and 100 cell, custom EvaGreen® Assay Linearity Data (triplicates shown)

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

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 C_q data for the run.

ORDERING INFORMATION

Product	P/N
DELTAgene Assays (wet tested)	ASY-GE-WET
DELTAgene Assays (not wet tested)	ASY-GE

Biologically grouped assays are available for selection to build panels of your choice. Visit www.fluidigm.com for more details.

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 C_q

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