ExProfile™ Human Apoptosis Gene qPCR Array

For focused group profiling of human apoptosis related genes expression

Cat. No. QG099-A (1 x 96-well plate, Format A)
Cat. No. QG099-B (1 x 96-well plate, Format B)
Cat. No. QG099-C (1 x 96-well plate, Format C)
Cat. No. QG099-D (1 x 96-well plate, Format D)
Cat. No. QG099-E (1 x 96-well plate, Format E)

Available as 1 set or 6 sets. Each set contains 84 unique gene primers deposited in one 96-well plates.

Introduction

The ExProfile human apoptosis related gene qPCR array profiles the expression of 84 human genes related to apoptosis. These genes are carefully chosen for their close pathway correlation based on a thorough literature search of peer-reviewed publications, mainly including genes that encode activators and inhibitors of apoptosis. This array allows researchers to study the related genes to gain understanding of their roles in the functioning and characterization of apoptosis.

- QG099 plate 01: 84 unique gene PCR primer pairs

Shipping and storage condition

Shipped at room temperate
Stable for at least 6 months when stored at -20°C

Array format

GeneCopoeia provides five qPCR array formats (A, B, C, D, and E) suitable for use with the following real-time cyclers.

Important note: Upon receiving, please check to make sure that the correct array format was ordered to ensure the compatibility with your qPCR instrument.

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<tr>
<th>Plate format</th>
<th>Instrument provider</th>
<th>qPCR instrument model</th>
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Quality control

1. Each pair of primers in the ExProfile gene qPCR array has been experimentally validated to yield a single dissociation curve peak and to generate a single amplicon of the correct size for the targeted gene.

2. The positive PCR controls (PCR) have been verified to amplify a single amplicon of the correct size with Ct values around $20\pm2$.

3. The Spike-in reverse transcription controls (RT) have been verified to amplify a single amplicon of the correct size with Ct values around $20\pm3$.

4. $R^2 > 0.99$ was observed for high inter/intra-array reproducibility.

Materials required but not provided

All-in-One™ First-Strand cDNA Synthesis Kit
All-in-One™ qPCR Mix
Total RNA extraction kit (RNAzol® RT RNA extraction reagent is recommended)
DNase/RNase free tips, PCR reaction tubes, 1.5 ml microcentrifuge tubes
5 ml and 10 ml graduated pipettes, beakers, flasks, and cylinders
10 μl to 1,000 μl adjustable single channel micropipettes with disposable tips
5 μl to 20 μl adjustable multichannel micropipette, disposable tips, and reservoir
qPCR instrument, compatible with gene qPCR arrays ordered

Array layout

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Gene primer pairs: 84 wells (A row to G row) are designated for a real-time PCR assay for genes (see the primer list).

HK1-6: Six pre-deposited housekeeping gene (HK1-6) primer pairs, which can be used as endogenous positive controls as well as for array normalization.

GDC: Genomic DNA controls, which can be used to specifically detect genomic DNA contamination with a high level of sensitivity.

RT: Spike-in reverse transcription controls, which can be used to monitor the efficiency of the RT reactions. These pre-deposited primer pairs specifically amplify the cDNA template reversed transcribed from the spike-in control RNA in the sample.

PCR: Positive PCR controls, which are used to verify the PCR efficiency by amplifying the pre-deposited DNA template with its specific pre-deposited primer pairs.
### Gene primer list

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