miProfile™ Human Exosome miRNA qPCR Array
For focused group profiling of human exosome related miRNA expression

Cat. No. QM045-A (2 x 384-well plate, Format A)
Cat. No. QM045-B (2 x 384-well plate, Format B)
Cat. No. QM045-C (2 x 384-well plate, Format C)
Cat. No. QM045-D (2 x 384-well plate, Format D)
Cat. No. QM045-E (2 x 384-well plate, Format E)

Available as 1 set or 6 sets. Each set contains 610 unique miRNA primers deposited in two 384-well plates

Introduction
The miProfile™ human exosome miRNA PCR array is a set of two 384-well plates, covering 610 miRNA primers related to human exosome. Each 384-well plate contains up to 360 pairs of PCR primers (forward: miRNA-specific primer; reverse: universal primer), which are pre-deposited in each well. Each plate also designated 24 control wells for monitoring the efficiency of every step of the experiment - from reverse transcription to qPCR reaction.

QM045 plate 01: 360 unique miRNA PCR primer pairs
QM045 plate 02: 250 unique miRNA PCR primer pairs

Shipping and storage condition
Shipped at room temperature
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.

<table>
<thead>
<tr>
<th>Plate format</th>
<th>Instrument provider</th>
<th>qPCR instrument model</th>
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<tbody>
<tr>
<td>A (96-well)</td>
<td>Applied Biosystems</td>
<td>5700, 7000, 7300, 7500, 7700, 7900HT (Standard 96-well block), ViiA™™7 (Standard 96-well block)</td>
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<td>B (96-well)</td>
<td>Applied Biosystems</td>
<td>7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA™™7 (Fast block)</td>
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<td>C (96-well)</td>
<td>Bio-Rad Laboratories</td>
<td>iCycler iQ®, MyiQ™, iQ™5</td>
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<td>D (96-well)</td>
<td>Bio-Rad Laboratories</td>
<td>CFX96™, DNA Engine Opticon™, DNA Engine Opticon 2™, Chromo4™</td>
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<td>E (96-well)</td>
<td>Roche Applied Science</td>
<td>LightCycler® 480 (96-well block)</td>
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Array layout

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<td>HK5</td>
<td>HK6</td>
<td>RT</td>
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<td>PCR</td>
<td>PCR</td>
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Figure 1. Illustration of miProfile miRNA qPCR array layout (96-well plate)

miRNA primer pairs: Wells 1-84 are designated wells for pre-deposited miRNA primer pairs.

NC: Negative controls, which only have the pre-deposited reverse universal primers

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

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

PCR: Two replicates of 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.

Materials required but not provided

All-in-One™ miRNA 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 miRNA qPCR arrays ordered

miRNA primer list


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