



# Total Solution of Gene Expression Analysis

**1** RNA Extraction




- ✓ Safely extract RNA with a spin column methods
- ✓ High quality and purity
- ✓ Has a reasonable price

**2** cDNA Synthesis




- ✓ Synthesize 9 kb of cDNA with only 10 minutes of RT reactions
- ✓ Able to synthesize cDNA even with a maximum of 12.5 kb long target RNA

**3** Gene Expression Screening



- ✓ Construct a library of 178 genetic pathways
- ✓ Consists of primers validated *in silico* by following the MIQE guidelines
- ✓ Contains enough volume for multiple replication studies

qPCR Kit and system



- ✓ Use dsDNA binding dye for screening
- ✓ Amplify even a small amount of templates effectively
- ✓ Compatible with various qPCR systems

**Exicycler™ 96**

- ✓ Simultaneously detect five targets at once
- ✓ Maintain the temperature fluctuations within 0.3°C

**Exicycler™ 384**

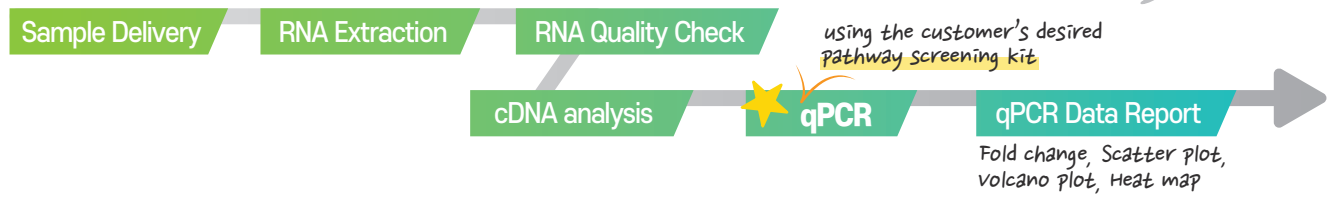
- ✓ Has the smallest well-to-well Ct variations out of all the 384-well qPCR instruments
- ✓ Able to amplify even with a small total volume between 5~20 µl

• What would you do if you can undergo sophisticated screening analysis with ease? •

Try our qPCR Screening Service to see the reliable gene expression screening methodologies and results **at once!**

## qPCR Screening Service

qPCR Screening Service inquiry:  
qPCRarray@bioneer.com



Identify the gene expression patterns easily with genes, sorted with 178 pathways

# AccuTarget™ qPCR Screening Kit

This pre-designed primer set can screen various genes related to pathways of disease and genetics using intercalating dyes during real-time PCR. With only a single experiment, analysis for gene expression levels of 84 genes can be done. To follow the MIQE guidelines, we have designed this product using a sophisticated bioinformatics tool. Furthermore, it was proved *in silico* that no non-specific amplification has occurred.

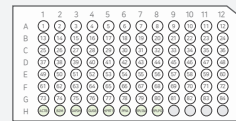
## Professional Design

- Has been designed to be optimized in various essential conditions such as target specificity, Tm value, PCR product size, etc.
- Strictly follows MIQE guidelines
- Guarantees with target-specific amplification through the use of BLAST and meticulously designed algorithms



## Can be used multiple time

- Contains lyophilized primers in a 96-well plate enough for 10, 20, and 30 times
- Dissolve the primers by putting D.W. in the plate well, then use the desired volume by pipetting them in a PCR tube



## Wide range of primer library

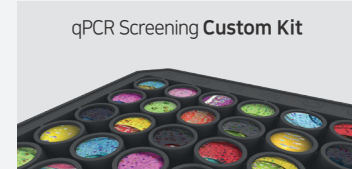
- Has constructed a library of 178 pathways
- Can identify 84 genes at once with 84 relevant genes and 8 reference genes



Please refer to [our homepage](#) if you wish to check the gene list of 178 pathways

## Customized kit

- Can be customized by adding or modifying any genes in the kit



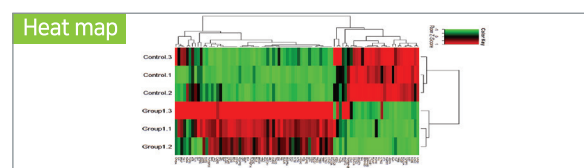
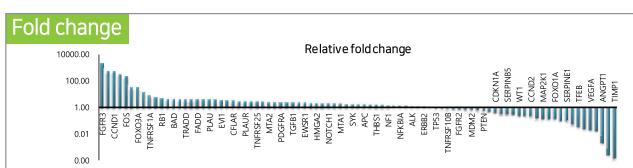
## Research Area

- Cancer
- Stem Cell
- Signal Transduction
- Neuroscience
- ECM / Adhesion
- Inflammation
- Toxicology
- Apoptosis
- Biomarker
- Cell Cycle

## Recommend to those!

- Who frequently use siRNA for qPCR
- Who test the quality of their products (QC)
- Who want to evaluate the efficiency of a newly developed drug
- Who experiences difficulty in primer design
- Who wants to validate their NGS or Microarray data

## Data from AccuTarget™ qPCR Screening Kit



**BIONEER**  
Innovation • Value • Discovery

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