AccuPower® qPCR Array System: Mouse Reference qPCR primer B set

(V1/2021-10-12)

[Cat. No.] S-6042-TM0B

Introduction

The *AccuPower*® qPCR Array System: Mouse Reference qPCR primer B set is constructed in 8-tube strip format to screen various reference genes for several times. Since the data are generated based on MIQE guidelines*, the results can be used for SCI paper publication.
The Mouse Reference qPCR primer B set contains 8 reference genes. *AccuPower*® qPCR Array System: Mouse Reference qPCR primer set is composed of two types of set, A and B. Type A set contains reference genes primers which are commonly used. Reference genes in Type B set are relatively not commonly used than Type A set. If the screening result from A set is poor, try to use B set to select more suitable reference genes.
The primer set is designed to provide high reproducibility and better sensitivity in experiments, along with significantly reducing nonspecific reactions. Add your template DNA, 2X Master Mix (intercalating dye type), and the primer from qPCR primer set into the 96 well plate and you can get a reliable data in a simple and convenient way.

* Bustin, S.A., et al. 2009. The MIQE Guidelines: Minimum Information for Publication of Quantitative Real-Time PCR Experiments, Clinical Chemistry 55:4, 611-622.

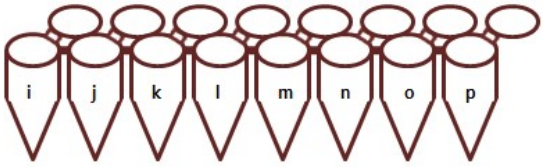
Features & Benefits

- Convenience: 16 kinds of commonly used reference genes (A set: 8 genes/ B set: 8 genes) provided are ready to be screened.
- Fidelity: qPCR primer with qPCR efficiency of 90-110% ensures detection limit of 100 copies.
- Economic: Time and cost for primer design, synthesis and efficiency assays are reduced.

Components

Components		Amount
AccuPower® qPCR Array System: Mouse Reference qPCR primer B set	8-tube strip x 2	0.3 nmol

Gene Table



#	Gene Symbol	Description
i	Canx	Calnexin
j	Cyc1	Cytochrome c-1
k	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
l	Ldhal6b	Lactate dehydrogenase A-like 6B
m	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
n	Tfrc	Transferrin receptor
o	Ubc	Ubiquitin C
p	Ywhaz	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta

Storage

- This product is lyophilized and shipped at ambient temperature.
- Store at ambient temperature (15-20°C) without direct sunlight for long term storage. Once dispensed, primers should be stored at -20°C and repeated freeze and thaw cycles (more than once) are not recommended.

Online Resources

Korean **English**

Visit our **product page** for additional information and protocols

Ordering Information

Description		Cat. No.
AccuPower® qPCR Array System: Mouse Reference qPCR primer B set	20 rxn	S-6042-TM0B
AccuPower® qPCR Array System: Single gene qPCR Primer Set	200 rxn	S-6042-S200

*** Note:** The selected reference gene can be ordered in 200 rxn increments.

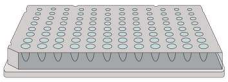
Notice

BIONEER corporation reserves the right to make corrections, modifications, improvements and other changes to its products, services, specifications or product descriptions at any time without notice.

Explanation of Symbols

Caution | Consult Instructions For Use | Do not Re-use | Use-by Date

Experimental Procedures

Steps		Procedure Details
1	 **Preparation of primers**	1. Dissolve primers in 50 µl of nuclease-free water to make a concentration of 3 pmol/µl.
2	 **Preparation of reaction mixture**	2. Add template DNA, primers, nuclease-free water, and *AccuPower*® 2X *GreenStar*™ qPCR Master Mix (K-6251, not provided) into real-time PCR plate to make a total volume of 20 µl or 50 µl. • Preparation of reaction mixture 3. Seal real-time PCR plate with adhesive optical sealing film (3111-4110, not provided) and briefly spin down.
3	 **Real-time PCR**	4. Perform the reaction under the following conditions. 5. After the reaction, perform data analysis.

Components	20 µl reaction	50 µl reaction
AccuPower® 2X *GreenStar*™ qPCR Master Mix	10 µl	25 µl
Template DNA	5 pg-100 ng	5 pg-100 ng
qPCR primer (3 pmol/µl)	2 µl	5 µl
Nuclease-free water	Variable	Variable
Total volume	20 µl	50 µl

Step	Temperature	Time	Cycles
Pre-denaturation	95°C	10 min	1 cycle
Denaturation	95°C	5 sec	40 cycles
Annealing	58°C	25 sec	
Extension	72°C	30 sec	
Detection	Scan		
Final extension	65°C	5 min	1 cycle
Melting	65-95°C	1 sec	-