

# AccuPower® qPCR Array System: Mouse Reference qPCR primer A set

(V1/2021-10-12)

### [Cat. No.] S-6042-TM0A

#### Introduction

The AccuPower® qPCR Array System: Mouse Reference qPCR primer A 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 A 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.

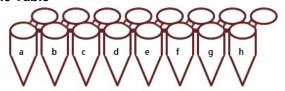
#### **Features & Benefits**

- 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	8-tube strip x 2	0.3 nmol
qPCR primer A set		

#### Gene Table



#	Gene Symbol	Description
а	Actb	Actin, beta
b	B2m	Beta-2 microglobulin
С	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
d	Gusb	Glucuronidase, beta
е	Hprt	Hypoxanthine guanine phosphoribosyl transferase
f	Ppia	Peptidylprolyl isomerase A
g	Rpl13a	Ribosomal protein L13A
h	Tbp	TATA box binding protein

#### **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





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**English** 

Visit our product page for additional information and protocols

#### **Ordering Information**

Description		Cat. No.	
AccuPower® qPCR Array System: Mouse Reference qPCR primer A set	20 rxn	S-6042-TM0A	
AccuPower® qPCR Array System: Single gene qPCR Primer Set	200 rxn	S-6042-S200	

<sup>\*</sup> Note: The selected reference gene can be ordered in 200 rxn increments.

#### **Notice**

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#### **Explanation of Symbols**







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## **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.				
	OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	<ul> <li>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.</li> <li>Preparation of reaction mixture</li> </ul>				
			ponents	20 µl reaction	50 µl reaction	
2			<i>Star</i> ™ qPCR Master Mix	10 µl	25 µl	
-		Template DNA		5 pg-100 ng	5 pg-100 ng	
	Preparation of reaction mixture	qPCR primer (3 pmol/μl)		2 μΙ	5 µl	
	Real-time PCR	Nuclease-free water		Variable	Variable	
		Total volume		20 µl	50 µl	
		<ul> <li>3. Seal real-time PCR plate with adhesive optical sealing film (3111-4110, not provided) and briefly spin down.</li> <li>4. Perform the reaction under the following conditions.</li> </ul>				
		Step	Temperature	Time	Cycles	
		Pre-denaturation	95°C	10 min	1 cycle	
3		Denaturation	95°C	5 sec		
		Annealing	58°C	25 sec	40 ovol	
		Extension	72°C	30 sec	40 cycles	
		Detection Scan				
		Final extension	65°C	5 min	1 cycle	
		Melting	65-95°C	1 sec	-	
		5. After the reaction, per	form data analysis.			