[Cat. No.] K-2410, K-2411

Introduction

AccuPower® Epigene™ Methylation-Specific PCR PreMix is used for amplifying uracil-rich DNA after bisulfite conversion. This product contains HotStart Taq DNA Polymerase to improved specificity by preventing mis-primed products and primer-dimer formations. All PCR components including, HotStart Taq DNA polymerase, dNTPs, reaction buffer, stabilizer, and tracking dye, are vacuum-dried for ease of use. Therefore, simply adding primers and DNA to the dried premix makes it easy to prepare a PCR mixture without any extra process.

Applications

- GC-rich PCR
- DNA methylation analysis

Features & Benefits

- Specificity: Optimized for DNA amplification containing a lot of Uracil (U) like AT-rich Target and Bisulfite-treated DNA.
- User-friendly: Each PCR tube contains necessary components for immediate PCR by simply adding D.W, primer set, and DNA template. The tube also has Tracking Dye and Sedimentation Agents for electrophoresis, eliminating the need for sample loading buffers.
- Stability: Stable kit activity by adding stabilizing agents in the PCR reaction mixture even after long storage period.
- Diversity: Accurate amplification from diverse targets such as gDNA template, Low-copy target, bisulfite-treated DNA.
- Reproducibility: Reproducible experimental results from minimizing lot-to-lot variation under ISO 9001 Quality System.

Composition

Composition	25 μl reaction		
HotStart Taq DNA polymerase	1 U		
dNTPs (dATP, dCTP, dGTP, dTTP)	Each 250 μM		
Reaction Buffer with 1.5 mM MgCl ₂	1X		
Stabilizer and tracking dye	0		

^{*} Note: For research use only. Not for use in diagnostic or therapeutic procedures.

Specifications

HotStart Taq Polymerase				
5'→3' exonuclease activity	Yes			
3'→5' exonuclease activity	No			
3' – A overhang	Yes			

Storage

Store at -20°C and the *AccuPower*[®] *Epigene*[™] Methylation-Specific PCR PreMix is stable until the expiration date printed on the label.

Precautions

- Wear gloves to prevent contamination.
- Store DNA samples and kits in the separate freezers to avoid contaminations.
- Add the template to the reaction mixture on a clean bench or in a spatially separated location.

Online Resources





Korean

English

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

Ordering Information

Descr	Cat. No.		
0.2 ml thin-wall 8-strip tubes	96 tubes	25 μl/rxn	K-2410
with attached cap	480 tubes	25 μl/rxn	K-2411

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











Use-b Date

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Experimental Procedures

Steps		Procedure Details					
1	Thaw reagents	Thaw AccuPower [®] Epigene [™] Methylation-Specific PCR PreMix, template DNA, and primers on ice and briefly spin down components.					
	maw reagents	2. Add the templates DNA and primers to <i>AccuPower</i> [®] <i>Epigene</i> ™ Methylation-Spec					
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		Components		25 μl reaction			
		Template DNA		1~500 ng			
		Forward Primer (10 pmole/ μl)		0.5~2 µl			
	- I	Reverse Primer (10 pmole/ μl)		0.5~2 µl			
		D.W.		Variable (up to 25 μl)			
2	å	Total volume		25 μΙ			
	Prepare reaction mixture	3. Dissolve the vacuum-dried pellet completely using the centrifuge or pipetting fo seconds, and briefly spin down. If you are using the BIONEER <i>ExiSp</i> Vortex/Centrifuge, follow the recommended settings below.					
		Step		Setting			
		Vortex	High	15 sec	4 cycles		
		Spin	1,500 rpm	5 sec			
		ons.					
		Step	Temperature	Time	Cycles		
		Pre-Denaturation	95°C	5 min	1 cycle		
3	BOWER.	Denaturation	95°C	15~30 sec			
"		Annealing	45~65°C	15~30 sec	25~35 cycles		
	Perform the reaction in a	Extension	72°C	1min/kb			
	thermal cycler	Final Extension	72°C	3~5 min	1 cycle		
		* Note: The annealing temperature depends on the melting point of the primers.					
4	Analyze with gel	les can be stored at					
	electrophoresis						