

ABI PRISM® True Allele® PCR Premix



Product P/N 403061
Insert P/N 4303766 REV C
Printed in USA

For Research Use Only.
Not for use in diagnostic procedures.

Introduction

The ABI PRISM® True Allele® PCR Premix (P/N 403061) contains an optimized mixture of AmpliTaq Gold® DNA Polymerase, buffer, magnesium chloride and dNTPs. The True Allele® PCR Premix has been designed for use with ABI PRISM® Linkage Mapping Set primers.

Storage and Stability

Upon receipt, store True Allele PCR Premix at -20°C in a constant temperature freezer. If stored and used under recommended conditions, the product will maintain performance for at least nine months upon receipt.

Product Contents:

Enough True Allele PCR Premix is provided in the kit to perform 2000 (15 µL) PCR amplifications. The kit contains 10 tubes, each containing 1.8 mL of True Allele PCR Premix, enough for 200 PCR amplifications.

PCR Protocol for Use of True Allele® PCR Premix with Linkage Mapping Set Primers:

1. Thaw True Allele PCR Premix on ice.
2. Gently mix and spin down tube to collect contents at bottom.
3. Mix the reaction components listed in table 1.
4. Follow the thermal cycling conditions listed in table 2.

Table 1: Reaction Mix for Linkage Mapping Set Primers

Reaction Component	Volume (µL)
True Allele PCR Premix	9.0
Primer Mix (5 µM each primer)	1.0
DNA (50 ng/µL)	1.2
Sterile D.I. H ₂ O	3.8
Total Mix	15.0

Table 2: PCR Conditions for GeneAmp® PCR System 9600 or 2400

Total Reaction Volume In µL/tube	Initial Step	Each of 10 Cycles			Each of 20 Cycles			Final Step
15 µL (no mineral oil added)	HOLD 12 min. 95°C	Denature	Anneal	Extend	Denature	Anneal	Extend	HOLD 10 min. 72°C
		CYCL			CYCL			
		Target: 94°C Hold: 15 sec	Target: 55°C Hold: 15 sec	Target: 72°C Hold: 30 sec	Target: 89°C Hold: 15 sec	Target: 55°C Hold: 15 sec	Target: 72°C Hold: 30 sec	

Recommended thermal cycling profile for PCR amplifications using the True Allele PCR Premix. The initial heat step of 12 minutes at 95°C initiates activation of the AmpliTaq Gold DNA Polymerase in the True Allele PCR Premix.

Tube Type Used: MicroAmp® Reaction Tubes (P/N N801-0580) or Trays (P/N N801-0560).

Note: The ABI PRISM® Linkage Mapping Set Version 2 was developed and optimized using the GeneAmp® PCR System 9600. If using the GeneAmp® PCR System 9700, refer to the instrument user manual for instructions on how to emulate the 9600 instrument.

PCR Protocol for General Use of True Allele® PCR Premix:

1. Thaw True Allele® PCR Premix on ice.
2. Gently mix and spin down tube to collect contents at bottom.
3. Mix the reaction components listed in table 3.
4. Bring to a final reaction volume of 15 µL with sterile DI H₂O
5. Follow the thermal cycling conditions listed in table 2.

Table 3: Reaction Mix for General Use

Reaction Component	Amounts
True Allele PCR Premix	9.0 µL
Forward Primer	5 pmol
Reverse Primer	5 pmol
DNA	60 ng
Total Mix	15.0 µL

Quality Control

Each lot of True Allele® PCR Premix is use tested with control DNA 1347-02 and Linkage Mapping Set primers. The test includes amplification of the control DNA and detection of PCR products on an ABI PRISM® 377 DNA Sequencer.

Product

Control DNA CEPH 1347-02
GS-400 HD ROX

Part Number

403062
402985

Refer to our web site at <http://www.appliedbiosystems.com> for more product and protocol information.

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