

Assays-on-Demand™ SNP Genotyping Products
(TaqMan® MGB-NFQ probes, FAM™ and VIC® dye-labeled) **Product Insert**

P/N: 4331183

Overview

Assays-on-Demand SNP Genotyping Products (part number 4331183) consist of a 20X mix of unlabeled PCR primers and TaqMan® MGB probe (FAM™ and VIC® dye-labeled). These assays are designed for the allelic discrimination of specific Single Nucleotide Polymorphisms (SNPs). Each assay enables scoring of both alleles in a single well. All assays are optimized to work with TaqMan® Universal PCR Master Mix, No AmpErase® UNG (P/N 4324018) and with genomic DNA. These products utilize the universal thermal cycling parameters described below.

Procedure

To prepare the reaction components for one reaction refer to the table below. The ABI PRISM® 7700 and ABI PRISM® 7000 SDS use 25µL reactions in a 96 well plate, the ABI PRISM® 7900HT SDS uses 5µL in a 384 well plate.

For further information on the plate set-up procedure and data analysis refer to the User's Manual For the appropriate Sequence Detection System instrumentation.

Table 1. Allelic Discrimination PCR Reaction

Reaction Components	Volume/Well 5µL volume reaction ¹	Volume/Well 25µL volume reaction ¹	Final Concentration
TaqMan® Universal PCR Master Mix, No AmpErase® UNG (2X)	2.5	12.5	1X
20X Assays-on-Demand SNP Genotyping Assay Mix	0.25	1.25	1X
Genomic DNA diluted in dH ₂ O ²	2.25	11.25	--
Total	5	25	

1. If different volumes are used, amounts should be adjusted accordingly.
2. 1-20 ng of genomic DNA

Table 2. Thermal Cycler Conditions

Times and Temperatures		
Each of 40 Cycles		
Initial Steps	Denature	Anneal/Extend
HOLD	CYCLE	
10 min 95°C	15 sec 92°C	1 min 60°C

Storage.

Store between –15°C and –20°C, minimize freeze thaw cycle. The 20X assay mix may be diluted in TE (final concentration of TE should be 10 mM Tris-HCl/1mM EDTA pH 8.0, use DNase free sterile filtered water).

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

Notice to purchaser: Limited License

TaqMan® probes are covered by U.S. Patent 5,723,591 and foreign counterparts and patents pending owned by PE Corporation (NY), and may be covered by U.S. Patents 5,801,155 and 6,084,102 and foreign counterparts licensed to Applied Biosystems.

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4335627 REV A 06/28/02