applied biosystems
by life technologies

TaqMan® Drug Metabolism Genotyping Assays (TaqMan® MGB probes, FAM™ and VIC® dye-labeled)

Catalog Number 4362691

Pub. No. 4363315 **Rev.** C

For safety guidelines, refer to the "Safety" section in the *TaqMan® SNP Genotyping Assays User Guide*, Pub. no. MAN0009593. For all chemicals in **bold** type below, read the MSDS, and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Overview

TaqMan® Drug Metabolism Genotyping Assays consist of a 20X mix of unlabeled PCR primers and TaqMan® MGB probes (FAM™ and VIC® dye-labeled). These assays are designed for the allelic discrimination of specific Single Nucleotide Polymorphisms (SNPs) and insertion/deletions (indels). All assays work optimally well with TaqMan® Genotyping Master Mix (Cat. no. 4371357) and with genomic DNA. These products utilize the modified thermal cycling parameters described in Table 2.

Procedure

To prepare the reaction components for one reaction, refer to Table 1. PCR amplification can be performed with any of the real-time PCR instruments listed in the *TaqMan® SNP Genotyping Assays User Guide*.

Table 1 Allelic Discrimination PCR Reaction

Reaction Components	384-Well Plate (5-µL reaction)	96-Well Fast Plate (10-µL reaction)	96-Well Plate (25-µL reaction)	Final Concentration
2X TaqMan® Genotyping Master Mix	2.50 µL	5 µL	12.50 µL	1X
20X TaqMan® Drug Metabolism Genotyping Assay Mix	0.25 µL	0.50 µL	1.25 µL	1X
Genomic DNA[1] diluted in dH_2O	2.25 µL	4.50 µL	11.25 µL	—
Total Volume per Well	**5 µL**	**10 µL**	**25 µL**	—

[1] 3–20 ng of genomic DNA per well. All wells on a plate should have equivalent amounts of genomic DNA.

Table 2 Thermal Cycler Conditions

Steps	Stage	Time	Temperature
Initial Steps	Hold	10 minutes	95°C
Denature	50 Cycles	15 seconds	92°C
Anneal/Extend	50 Cycles	90 seconds	60°C

Storage

Store between –15°C and –25°C; minimize freeze-thaw cycles.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.lifetechnologies.com/termsandconditions**. If you have any questions, please contact Life Technologies at **www.lifetechnologies.com/support**.

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

The information in this guide is subject to change without notice.

For support visit **lifetechnologies.com/support** or email **techsupport@lifetech.com**

lifetechnologies.com

12 May 2014