

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

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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 <sup>[1]</sup> diluted in dH <sub>2</sub> O	2.25 µL	4.50 µL	11.25 µL	—
<b>Total Volume per Well</b>	<b>5 µL</b>	<b>10 µL</b>	<b>25 µL</b>	—

<sup>[1]</sup> 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.

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