

TaqMan[®] Genotyping Master Mix

Quick Reference Card

For safety and biohazard guidelines, refer to the "Safety" section in the *TaqMan*[®] *Genotyping Master Mix Protocol* (PN 4371131). For all chemicals in **bold red** type, read the MSDS and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Genotyping Procedure

This quick reference card provides simplified procedures for using the TaqMan[®] Genotyping Master Mix with TaqMan genotyping assays. For details, refer to the *TaqMan Genotyping Master Mix Protocol*.

STEP	ACTION							
1	Prepare the PCR reaction mix	a. Prepare at least two no template controls (NTCs) and (if needed) at least one genomic DNA control of known genotype on each plate to ensure accurate genotype calling.						
		on the number of reactions. Include extra volume to compensate for the volume loss that occurs during pipetting.						
			u L/Well)					
		Component	Wet DNA Delivery Method			DNA Predelivery and Dry- Down Method		
			5-μL §	10- μ L #	25-μL‡‡	5-μL §	10- μ L #	25-μL ‡‡
		TaqMan Genotyping Master Mix (2X)	2.50	5.0	12.50	2.50	5.0	12.50
		TaqMan genotyping assay mix (20X)	0.25	0.5	1.25	0.25	0.5	1.25
		DNase-free, RNase- free water	(none)	(none)	(none)	2.25	4.5	11.25
		Total Volume	2.75	5.5	13.75	5.0	10.0	25.00
		 Example calculations of predelivery method, with -TaqMan Genotyping M -TaqMan genotyping as -DNase-free, RNase-fre § Use with Optical 384-W # Use with Fast Optical 99 <i>Protocol.</i> Use with standard Optical 	f final volum h 14 extra m laster Mix: (1 say mix: (1. e water: (11 /ell Reaction 6-Well Reac cal 96-Well	es for ninety eaction volu 12.5 μL × 11 25 μL × 110 .25 μL × 110 .25 μL × 110 .Plates. tion Plates. Reaction Pla	ir-six 25-μL re mes: 0) = 1375 μL) = 137.5 μL 0) = 1237.5 μ Refer to the 5 ates.	actions for L <i>TaqMan[®]</i> G	the dry-dow	n and laster Mix

STEP	ACTION						
2	Prepare the reaction plate	 If you use the DNA dry-down method: In each well, pipette one control or sample (1 to 10 ng of purified genomic DNA). Dry down the samples completely by evaporation at room temperature in a dark, amplicon-free location. Transfer the appropriate volume of PCR reaction mix into each well: 5 μL per well for 384-well plates 10 μL per well for Fast 96-well plates 25 μL per well for 96-well plates If you use the wet DNA delivery method: Transfer the appropriate volume of PCR reaction mix into each well: 2.75 μL per well for 384-well plates 5.5 μL per well for 384-well plates 5.5 μL per well for 384-well plates 5.5 μL per well for Fast 96-well plates 2.75 μL per well for 384-well plates 2.5 μL per well for 96-well plates 2.5 μL per well for 96-well plates 4.5 μL per well for 384-well plates 4.5 μL per well for 384-well plates 4.5 μL per well for 384-well plates 11.25 μL per well for 56-well plates 					
3	Run the PCR reaction plate	 a. Set the thermal cycling conditions as for Step AmpliTaq Gold[®], UP Enzyme Activation Denature Anneal/Extend b. In the plate document, verify that the Freenter the correct total sample volume (Step Correct total sample volume (Step Correct Master Mix. For information refer to the Step Correct total sample volume) 	Dillows: Temperature (°C) 95 95 60 ast thermal cycling mo 5 μL, 10 μL, or 25 μL) proditions are not for us TaqMan Genotyping	Duration 10 min 15 sec 1 min ode is not se se with TaqM <i>Master Mix I</i>	Cycles HOLD 40 elected, then Man Genotyping Protocol.		
4	Read and analyze the results	Perform an endpoint plate read and analyze the results using an Applied Biosystems Real- Time PCR System. Refer to your instrument user guide for details on analyzing your data.					

TaqMan Genotyping Master Mix Products

Item	Part Number	Contents	Item	Part Number	Contents
1-Pack	4371355	One 10-mL bottle	Single Bulk Pack	4371357	One 50-mL bottle
2-Pack	4381656	Two 10-mL bottles	Multi Bulk Pack	4381657	Two 50-mL bottles

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