

TaqMan™ RNase P Control Reagents Kit

VIC™ dye

Catalog Number 4316844

Pub. No. 4316848 Rev. D

WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from thermofisher.com/support.

Product description

The RNase P gene is a single-copy gene encoding the RNA moiety for the RNase P enzyme. The Applied Biosystems™ TaqMan™ RNase P Control Reagents Kit contains a 20X mix of primers and probe (VIC™ dye, with TAMRA™ quencher) that can be used to detect and quantify genomic copies of the human RNase P gene. The primers and probe are designed according to Primer Express guidelines for quantitation and utilize the universal thermal cycling parameters. This kit is designed to be used with a 5' nuclease assay with TaqMan™ Universal PCR Master Mix (Cat. No. 4304437) with genomic, plasmid or complementary DNA (cDNA).

The TaqMan™ RNase P Control Reagents were designed with limiting primer concentrations to be used as the endogenous reference in multiplex reactions. Multiplex PCR is the use of more than one primer pair in the same tube.

The TaqMan™ RNase P Control Reagents are not compatible with the StepOne™ System. They are compatible with the StepOnePlus™ System and all other Applied Biosystems™ Real-Time PCR Systems.

Contents and storage

Contents	Amount ^[1]	Storage
20X RNase P Primer-Probe (VIC™ dye) Mix	2 × 1.25 mL	-25°C to -15°C
Human Genomic Control DNA, 10 ng/μL	100 μL	

^[1] Sufficient for 1,000 50-μL reactions

Procedure

1. The TaqMan™ RNase P Control Reagents were optimized using the TaqMan™ Universal PCR Master Mix. To prepare the reaction components for one 50-μL reaction:

Reaction component	Volume per well	Final concentration
TaqMan™ Universal PCR Master Mix (2X)	25 μL	1X
20X RNase P Primer-Probe (VIC™ dye) mix	2.5 μL	1X
20X Target Primers and Probe	2.5 μL	1X
Template	1–20 μL	—
RNase-free water	Variable ^[1]	—
Total	50 μL	—

^[1] Volume of RNase-free water (μL) = 20 – template sample volume.

2. Follow the User Guide for your instrument to set up the following thermal cycling conditions:

Thermal cycler	Times and temperatures			
	Initial	Steps	Each of 40 cycles	
			Melt	Anneal/extend
Applied Biosystems™ Real-Time PCR Systems	HOLD	HOLD	CYCLE	
	2 minutes at 50°C	10 minutes at 95°C	15 seconds at 95°C	1 minute at 60°C

Limited product warranty

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Revision history: Pub. No. 4316848

Revision	Date	Description
D	26 April 2016	Format, style, and legal updates
C	September 2009	Baseline for this revision history

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Corporate entity: Life Technologies Corporation | Carlsbad, CA 92008 USA | Toll Free in USA 1 800 955 6288

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