qNTQX® C15P2 TaqMan Multiplex qPCR Probe Kit

Cat. no. LM602008

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This product is for scientific research use only. Not for use in diagnostic or clinical procedures.

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1. Product Information

Product name	Cat. No.	Size
qNTQX® C15P2 TaqMan Multiplex qPCR Probe Kit	LM602008	100 T / 1,000 T / 10,000 T

Storage and Shipping

1. Shipping and storage instructions: the product is shipped with ice packs.
2. Store at −20 °C. The product is stable for 24 months.

Applicable Instruments

Applied Biosystems: 5700, 7000, 7300, 7700, 7900HT Fast, StepOne™, StepOne Plus™, 7500, 7500 Fast, ViiA™ 7, QuantStudio™ 3 and 5, QuantStudio™ 6, 7, 12K Flex.

Bio-Rad: CFX96, CFX384, iCycler iQ, iQ5, MyiQ, MiniOpticon, Opticon, Opticon 2, Chromo4.

Eppendorf: Mastercycler ep realplex, realplex 2s.

Qiagen: Corbett Rotor-Gene Q, Rotor-Gene 3000, Rotor-Gene 6000.

Roche Applied Science: LightCycler 480, LightCycler 2.0, LightCycler 96.

Stratagene: MX3000P™, MX3005P™, MX4000P™.

Thermo Scientific: PikoReal Cycler. **Cepheid:** SmartCycler. **Illumina:** Eco qPCR.

2. Product Description

qNTQX® C15P2 TaqMan Multiplex qPCR Probe Kit is a fluorescence-based quantitative PCR (qPCR) reagent that utilizes the company's next-generation antibody-mediated hot-start Taq enzyme. The 2× reaction buffer contains Mg^{2+} and dNTPs, along with factors that effectively inhibit non-specific PCR amplification and enhance the efficiency of multiplex qPCR reactions. This allows for up to fourplex reactions while ensuring primer efficiency.

3. Components

Components No.	Components Name	100 T	1,000 T	10,000 T
LM602008-A	2× TaqMan qPCR buffer	1.25 mL	12.5 mL	125 mL
LM602008-B	Hotstart D-Taq (5 U/μL)	60 μL	600 μL	6 mL

4. Operate

4.1. qPCR Reaction System

Components	Volume (μL)	Final Conc.
2× TaqMan qPCR buffer	12.5	1×
Hotstart D-Taq (5 U/μL)	0.6	0.12 U/μL

Components	Volume (μL)	Final Conc.
Primer mix (10 μM)	x	0.1 μM–0.5 μM
Probe mix (10 μM)	x	50 nM–250 nM
DNA/cDNA template	1–10	—
ddH_2O	up to 25	—

Primer concentration and DNA amount can be adjusted according to experimental requirements.

4.2. Reaction Program

Cycle step	Temp.	Time	Cycles
Initial denaturation	95 °C	5 min	1
Denaturation	95 °C	15 sec	45
Annealing/Extension	60 °C	30 sec	

Annealing/extension temperature can be adjusted according to experimental requirements.

5. Notes

1. For your safety and health, please wear a lab coat and disposable gloves during operation.