

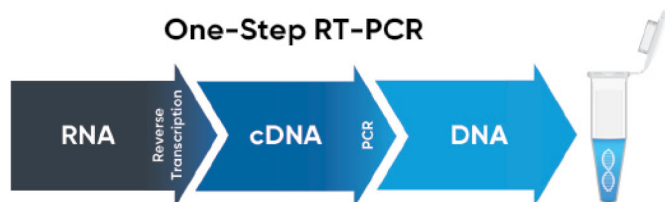
Convenient cDNA Synthesis and PCR in a Single Tube

Specific and sensitive RT-PCR
from any RNA template

Detect low copy transcripts

2X master mix with Accuris
Hot Start Taq Polymerase for
improved specificity and room
temperature set up

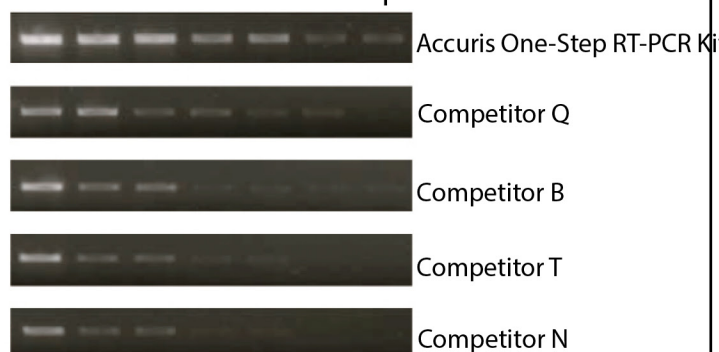
Compatible with all real time
cyclers



The *Accuris One-Step RT-PCR Kit* is ideal for determining the presence or absence of RNA templates and quantifying expression through qualitative analysis of RNA transcription levels. Formulated for easy, one tube production of cDNA and subsequent end point PCR of any RNA template, the kit is highly sensitive, and can be used with as little as 1pg of total RNA for the starting material.

A blend of a highly thermostable reverse transcriptase (45° - 55°C), *Accuris Hot Start Taq Polymerase* and a potent RNase inhibitor in an optimized buffer allows for efficient reverse transcription and PCR of problematic sequences with significant secondary structure (such as GC-rich targets). Inclusion of a hot start polymerase allows for reverse transcription to take place before the polymerase is activated, resulting in higher specificity. It also offers the convenience of reactions being set up at room temperature.

Comparative RT-PCR end-point analysis of Accuris One-Step RT-PCR Kit



Gel above compares Accuris One-Step RT-PCR Kit with that of four of the market leaders. Starting material was 1µg of total RNA, and six serial dilutions were run on an agarose gel.

Item no.	Description	Reactions
PR1100-50	Accuris One-Step RT-PCR Kit	50
PR1100-100	Accuris One-Step RT-PCR Kit	100

Accuris also offers a line of cDNA synthesis kits. Please inquire for details.

Accurate & Fast Gene Expression Analysis

RNA to qPCR in one tube, one step
Enhanced performance and sensitivity
Simplified workflow and fast results
Advanced buffer formulation with powerful RNase inhibitors
Compatible with all real time cyclers



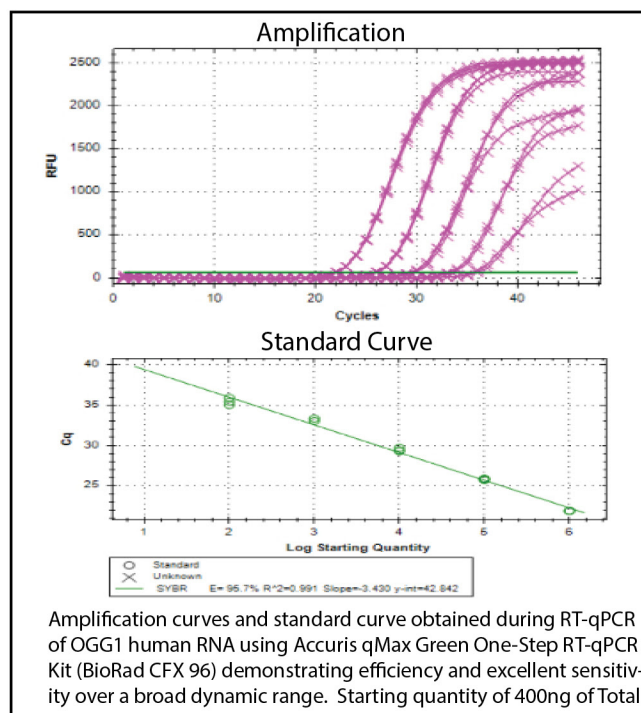
One-Step RT-qPCR



The Accuris qMAX™ Green One-Step RT-qPCR Kit allows for highly sensitive real time RT-qPCR assays to be performed directly from RNA templates. Workflows are simplified by the one tube formulation of ready-to-use 2X qPCR master mix and reverse transcriptase.

The optimized buffer includes powerful RNase inhibitors and an extremely thermostable MMLV-derived reverse transcriptase for robust first strand cDNA synthesis. Accuris Hot Start Taq Polymerase is the engine for qPCR, while qMAX Green allows for dye based detection. qMAX Green™ exhibits greater fluorescence upon binding to double stranded DNA than other green dyes while exhibiting minimal PCR inhibition. An inert blue dye is included in the mix to help simplify pipetting and reduce errors.

The Accuris qMAX Green One-Step qPCR Kit is compatible with standard and fast cycling protocols and provides increased sensitivity, speed and reproducibility for a broad range of samples and targets. The polymerase mix is available with low or high level of ROX reference dye for compatibility with all qPCR instruments.



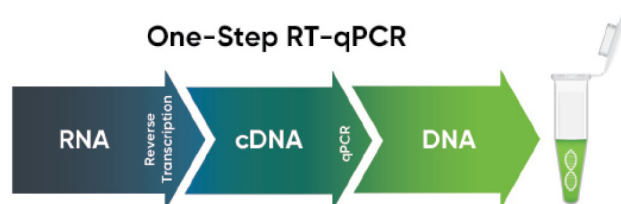
Amplification curves and standard curve obtained during RT-qPCR of OGG1 human RNA using Accuris qMax Green One-Step RT-qPCR Kit (BioRad CFX 96) demonstrating efficiency and excellent sensitivity over a broad dynamic range. Starting quantity of 400ng of Total

Item no.	Description	Reactions
PR2120-L-100	Accuris qMAX Green One-Step RT-qPCR Kit, low ROX	100
PR2120-L-500	Accuris qMAX Green One-Step RT-qPCR Kit, low ROX	500
PR2120-L-1000	Accuris qMAX Green One-Step RT-qPCR Kit, low ROX	1000
PR2120-H-100	Accuris qMAX Green One-Step RT-qPCR Kit, high ROX	100
PR2120-H-500	Accuris qMAX Green One-Step RT-qPCR Kit, high ROX	500
PR2120-H-1000	Accuris qMAX Green One-Step RT-qPCR Kit, high ROX	1000

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Gene Expression Analysis & Pathogen Detection

RNA to qPCR in one tube in one step
Enhanced performance and sensitivity
Simplified workflow and fast results
Unmatched multiplexing performance
Compatible with all real time cyclers



The qMAX™ Probe One-Step RT-qPCR Kit allows for highly sensitive real time RT-qPCR assays to be performed directly from RNA templates.

The optimized buffer includes a powerful RNase inhibitor and an extremely thermostable MMLV-derived reverse transcriptase for robust first strand cDNA synthesis. Accuris Hot Start Taq Polymerase employs rapid antibody-mediated hot-start activation, which allows for reaction preparation at room temperature.

The kit can be used to quantify a specific target RNA from either total RNA or mRNA while reducing the number of pipetting steps due to the one tube formulation.

The qMAX™ Probe One-Step RT-qPCR Kit requires little, if any, optimization. It delivers early quantification cycle values (Ct) and broad range detection for high sensitivity, speed, reliability and reproducibility with a processive enzyme chemistry, providing unmatched performance in multiplexing.

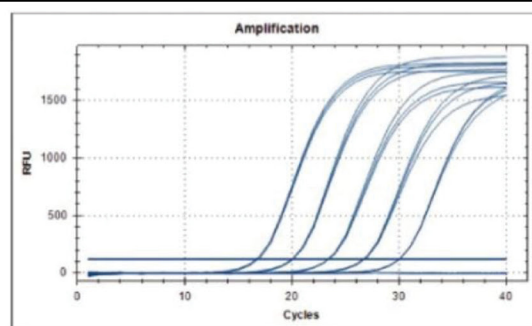


Figure 1. Mouse beta-actin was amplified with qMAX Probe One-Step qPCR Mix using gene specific primers and TaqMan probe. A 10-fold serial dilution of starting quantity of 1 pg of mouse total RNA was performed to demonstrate excellent sensitivity with limited input RNA.

Item no.	Description	Reactions
PR2121-N-100	Accuris qMAX Probe One-Step RT-qPCR Mix, No ROX	100
PR2121-N-500	Accuris qMAX Probe One-Step RT-qPCR Mix, No ROX	500
PR2121-N-1000	Accuris qMAX Probe One-Step RT-qPCR Mix, No ROX	1000
PR2121-L-100	Accuris qMAX Probe One-Step RT-qPCR Mix, Low ROX	100
PR2121-L-500	Accuris qMAX Probe One-Step RT-qPCR Mix, Low ROX	500
PR2121-L-1000	Accuris qMAX Probe One-Step RT-qPCR Mix, Low ROX	1000
PR2121-H-100	Accuris qMAX Probe One-Step RT-qPCR Mix, High ROX	100
PR2121-H-500	Accuris qMAX Probe One-Step RT-qPCR Mix, High ROX	500
PR2121-H-1000	Accuris qMAX Probe One-Step RT-qPCR Mix, High ROX	1000

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