

## qPCR Human Reference Total RNA

**Catalog No.**

636690

**Amount**

25 µg

**Lot Number**

Specified on product label.

### Description

A mixture of total RNAs from a collection of adult human tissues, chosen to represent a broad range of expressed genes. Both male and female donors are represented.

qPCR Reference Total RNA serves as a standard for the accurate and reproducible comparison of gene expression data using real-time quantitative PCR (qPCR). It may also be used as a source of positive control templates for validating qPCR primer designs.

Total RNA was isolated by a modified guanidinium thiocyanate method (Chomczynski and Sacchi 1987).

### Package Contents

- 25 µl qPCR Human Reference Total RNA (1 µg/µl)

### Storage Conditions

- Store at -70°C

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Shipping Conditions

- Dry ice (-70°C)

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)

The following documents apply to this product:

- qPCR Human Reference Total RNA Protocol-At-A-Glance

### References

Chomczynski, P. & Sacchi, N. Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction. *Anal. Biochem.* **162**, 156-159 (1987).

### Quality Control Data

#### Raw Material Quality Control

Each total RNA used to manufacture the qPCR Human Reference Total RNA was tested for integrity using the Agilent 2100 Bioanalyzer by checking the ratio of the 28S and 18S ribosomal bands.

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# Certificate of Analysis

Cat. No. 636690

qPCR Human Reference Total RNA

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## **Genomic DNA Contamination**

qPCR Reference RNA was assessed for genomic DNA contamination using a real-time qPCR test for the K-ras gene. The qPCR Human Reference Total RNA contained <0.01% (w/w) genomic DNA.

## **Functional Quality Control**

qPCR Reference Total RNA was reversed-transcribed and tested for performance in real-time quantitative PCR for the human RPLP0 gene using TB Green® Advantage® qPCR Premix. A five-fold sequential dilution series comprised of 6 samples ranging from 50 ng to 16 pg was used as template. Expected results were observed.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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