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**PRODUCT: Human MTC™ Panel I**

**CATALOG No.**  
636742

**LOT NUMBER:** 1010372A

**STORAGE CONDITIONS**  
Store at -20°C

**SHELF LIFE**  
1 year from date of receipt under proper storage conditions.

**SHIPPING CONDITIONS**  
Dry ice (-70°C)

**RNA TYPE**  
Poly A<sup>+</sup> RNA

**RNA SOURCE**  
The age and sex of tissue/cell donors are specified on the back of this page. All tissue sources, as far as can be determined, are free from disease.

**DESCRIPTION**

Panel of normalized, first strand cDNA preparations from RNA from the tissues/cells listed on the back of this page. The cDNAs included in MTC Panels can be used as templates for PCR using gene-specific primers to study tissue expression patterns. Each cDNA preparation is sufficient for 10 PCR amplifications. G3PDH PCR Primers and Control cDNA are included for 10 positive control reactions.

**NUMBER OF SAMPLES:** 8

**CONCENTRATION** 1.0 ng/μl

**NORMALIZATION**

The following genes were used to normalize the concentration of the cDNA samples:

alpha-tubulin  
beta-actin  
G3PDH  
phospholipase A2

**PACKAGE CONTENTS**

- 50 μl First-strand cDNA from each of the tissues/cells specified on the back of this page.
- 50 μl Human Control cDNA
- 40 μl G3PDH Control 5' & 3' PCR Primers (10 μm each)

**OTHER**

cDNA Panels User Manual  
(PT3158-1)

**FOR RESEARCH USE ONLY**

**QUALITY CONTROL DATA**

5 μl of each cDNA preparation, including the Control DNA, was tested in a separate 50-μl PCR amplification using the G3PDH Control Primers. After 22 cycles, a 5-μl sample of each PCR product was run on a 1.2% agarose/EtBr gel. Each reaction produced a single band of the expected size (983 bp).



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(PA832669)

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**TISSUE OR CELL LINE SOURCES**

<b>Tissue/Cell Line</b>	<b>Source</b>
heart (whole)	pooled from 3 male Caucasians, ages 24-41
brain (whole)	pooled from 8 male Caucasians, ages 43-65
placenta	pooled from 11 female Caucasians, ages 19-39
lung	pooled from a Caucasian male, age 50
liver (whole)	pooled from a Caucasian male, age 35
skeletal muscle	pooled from 4 male/female Caucasians, ages 25-56
kidney	pooled from 4 male/female Caucasians, ages 28-48
pancreas	pooled from 15 male/female Caucasians, ages 22-69

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