PRODUCT: Rat MTC™ Panel I

CATALOG No.
636751

LOT NUMBER: 1001265A

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+ 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 the 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:

- beta-actin
- G3PDH
- alpha-tubulin
- ribosomal protein S29

PACKAGE CONTENTS
- 50 µl First-strand cDNA from each of the tissues/cells specified on the back of this page
- 50 µl Rat 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).

APPROVED BY: _________________________
(PA832676)
### TISSUE OR CELL LINE SOURCES

<table>
<thead>
<tr>
<th>Tissue/Cell Line</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>heart</td>
<td>pooled from 200 male Sprague-Dawley rats, ages 8-12 weeks</td>
</tr>
<tr>
<td>brain (whole)</td>
<td>pooled from 300 male Sprague-Dawley rats, ages 8-12 weeks</td>
</tr>
<tr>
<td>spleen</td>
<td>pooled from 200 male Sprague-Dawley rats, ages 8-12 weeks</td>
</tr>
<tr>
<td>lung</td>
<td>pooled from 200 male Sprague-Dawley rats, ages 8-12 weeks</td>
</tr>
<tr>
<td>liver</td>
<td>pooled from 200 male Sprague-Dawley rats, ages 8-12 weeks</td>
</tr>
<tr>
<td>skeletal muscle</td>
<td>pooled from 300 male Sprague-Dawley rats, ages 8-12 weeks</td>
</tr>
<tr>
<td>kidney</td>
<td>pooled from 200 male Sprague-Dawley rats, ages 8-12 weeks</td>
</tr>
<tr>
<td>testis</td>
<td>pooled from 200 male Sprague-Dawley rats, ages 8-12 weeks</td>
</tr>
</tbody>
</table>

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