

# RT<sup>2</sup> Profiler™ PCR Array:

## Human Housekeeping Genes

### Catalog Number

PAHS-000A

PAHS-000C

PAHS-000D

PAHS-000E

PAHS-000F

PAHS-000G

### For Real-Time Instruments:

ABI Standard Blocks; Bio-Rad iCycler, MyiQ, and (MJ Research) Chromo 4; and Stratagene Mx3005p, Mx3000p

ABI 7500 and 7900HT FAST 96-Well Blocks, ABI StepOnePlus

Bio-Rad (MJ Research) Opticon and Opticon 2, Stratagene Mx4000

ABI 7900HT 384-Well Block

Roche LightCycler 480 96-well Block

Roche LightCycler 480 384-well Block

### Description

The Human Housekeeping Genes RT<sup>2</sup> Profiler PCR Array profiles the expression of eight (8) identical sets of twelve (12) commonly used housekeeping genes. This array can be easily used to identify genes with a constant level of expression among your different experimental conditions for use in normalizing your relative gene expression profiling experiment. Housekeeping genes encode proteins that are usually essential for the maintenance of cellular function. Their expression often, but not always, remains constant under most experimental conditions. Some of these genes may be regulated under certain circumstances and may vary with cell type. Using real-time PCR, you can easily and reliably evaluate the expression of these housekeeping genes among your different experiment conditions with this array.

### Functional Gene Groupings

Column	UniGene	GenBank	Symbol	Description
1	N/A	X03205	18SrRNA	Human 18S ribosomal RNA
2	Hs.520640	NM_001101	ACTB	Actin, beta
3	Hs.534255	NM_004048	B2M	Beta-2-microglobulin
4	Hs.356331	NM_021130	PPIA	Peptidylprolyl isomerase A (cyclophilin A)
5	Hs.544577	NM_002046	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
6	Hs.255230	NM_000181	GUSB	Glucuronidase, beta
7	Hs.412707	NM_000194	HPRT1	Hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan
8	Hs.509736	NM_007355	HSP90AB1	Heat shock protein 90kDa alpha (cytosolic), class B member
9	Hs.546356	NM_012423	RPL13A	Ribosomal protein L13a
10	Hs.546285	NM_001002	RPLP0	Ribosomal protein, large, P0
11	Hs.529618	NM_003234	TFRC	Transferrin receptor (p90, CD71)
12	Hs.520348	NM_021009	UBC	Ubiquitin C

## Product Specification Sheet

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### **Storage Conditions**

**Please check the kit components immediately after you receive this package. We are only responsible for missing items reported within two (2) business days of receipt.**

**Storage Conditions:** PCR Arrays are shipped at ambient temperature. Keep plates at -20 °C for long-term storage.

**NOTE:** Be sure that you have the correct PCR Array format for your instrument before starting the experiment.

### **Protocol**

Please see the Appendix entitled "Modified Protocol for Housekeeping Gene PCR Arrays" found in the RT<sup>2</sup>Profiler™ PCR Array User Manual.