

RT² Profiler™ PCR Array:

Rat Housekeeping Genes

Catalog Number

PARN-000A

PARN-000C

PARN-000D

PARN-000E

PARN-000F

PARN-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 Rat Housekeeping Genes RT² 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.

Housekeeping Genes

| Column | UniGene | GenBank | Symbol | Description |
|--------|-----------|--------------|----------------------|---|
| 1 | Rn.973 | NM_001007604 | Rplp1 | Ribosomal protein, large, P1 |
| 2 | Rn.47 | NM_012583 | Hprt | Hypoxanthine guanine phosphoribosyl transferase |
| 3 | Rn.92211 | NM_173340 | Rpl13a | Ribosomal protein L13A |
| 4 | Rn.107896 | NM_017025 | Ldha | Lactate dehydrogenase A |
| 5 | Rn.94978 | NM_031144 | Actb | Actin, beta |
| 6 | Rn.108127 | NM_053291 | Pgk1 | Phosphoglycerate kinase 1 |
| 7 | Rn.1868 | NM_012512 | B2m | Beta-2 microglobulin |
| 8 | Rn.98672 | XM_340999 | Tfrc | Transferrin receptor |
| 9 | Rn.3692 | NM_017015 | Gusb | Glucuronidase, beta |
| 10 | Rn.98667 | NM_001004082 | Hspcb | Heat shock 90kDa protein 1, beta |
| 11 | Rn.129133 | XM_345576 | RGD1564921_predicted | Similar to peptidyl prolyl isomerase H (predicted) |
| 12 | Rn.101725 | NM_130428 | Sdha | Succinate dehydrogenase complex, subunit A, flavoprotein (Fp) |

Product Specification Sheet

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 RT²Profiler™ PCR Array User Manual.