

RT² Profiler™ PCR Array:

Mouse Housekeeping Genes

Catalog Number

PAMM-000A

PAMM-000C

PAMM-000D

PAMM-000E

PAMM-000F

PAMM-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 Mouse 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.

Functional Gene Groupings

Column	UniGene	GenBank	Symbol	Description
1	N/A	K01364	18SrRNA	Mouse 18S rRNA gene, clones 5a,6,7
2	Mm.328431	NM_007393	Actb	Actin, beta, cytoplasmic
3	Mm.163	NM_009735	B2m	Beta-2 microglobulin
4	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
5	Mm.299381	NM_013556	Hprt1	Hypoxanthine guanine phosphoribosyl transferase 1
6	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90kDa alpha (cytosolic), class B member
7	Mm.432764	NM_175349	Ldhal6b	Lactate dehydrogenase A-like 6B
8	Mm.280069	NM_023144	Nono	Non-POU-domain-containing, octamer binding protein
9	Mm.5246	NM_008907	Ppia	Peptidylprolyl isomerase A
10	Mm.180458	NM_009438	Rpl13a	Ribosomal protein L13a
11	Mm.244820	NM_013684	Tbp	TATA box binding protein
12	Mm.28683	NM_011638	Tfrc	Transferrin receptor

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.