

RT² Profiler PCR Array (96-Well Format and 384-Well [4 x 96] Format)

Mouse Housekeeping Genes

Cat. no. 330231 PAMM-000ZA

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format A	Applied Biosystems [®] models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA™ 7 (96-well block); Bio-Rad [®] models iCycler [®] , iQ™ 5, MyiQ™, MyiQ2; Bio-Rad/MJ Research Chromo4™; Eppendorf [®] Mastercycler [®] ep realplex models 2, 2s, 4, 4s; Stratagene [®] models Mx3005P [®] , Mx3000P [®] ; Takara TP-800
RT ² Profiler PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
RT ² Profiler PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon [®] , DNA Engine Opticon 2; Stratagene Mx4000 [®]
RT ² Profiler PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT ² Profiler PCR Array, Format F	Roche [®] LightCycler [®] 480 (96-well block)
RT ² Profiler PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT ² Profiler PCR Array, Format H	Fluidigm [®] BioMark™



Sample & Assay Technologies

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.

For further details, consult the *RT² Profiler PCR Array Handbook*.

Shipping and storage

RT² Profiler PCR Arrays in formats A, C, D, E, F, and G are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products. RT² Profiler PCR Arrays in format H are shipped on dry ice or blue ice packs.

For long term storage, keep plates at -20°C .

Note: Ensure that you have the correct RT² Profiler PCR Array format for your real-time cycler (see table above).

Note: Open the package and store the products appropriately immediately on receipt.

Array layout (96-well)

For 384-well 4 x 96 PCR arrays, genes are present in a staggered format. Refer to the *RT² Profiler PCR Array Handbook* for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
B	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
C	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
D	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
E	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
F	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
G	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.328431	NM_007393	Actb	Actin, beta
A02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
A03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
A04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
A05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
A06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
A07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
A08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
A09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
A10	Mm.244820	NM_013684	Tbp	TATA box binding protein
A11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
A12	Mm.331	NM_019639	Ubc	Ubiquitin C
B01	Mm.328431	NM_007393	Actb	Actin, beta
B02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
B03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
B04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
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C03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
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Related products

For optimal performance, RT² Profiler PCR Arrays should be used together with the RT² First Strand Kit for cDNA synthesis and RT² SYBR[®] Green qPCR Mastermixes for PCR.

Product	Contents	Cat. no.
RT ² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT ² SYBR Green qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with real-time cyclers that do not require a reference dye, including: Bio-Rad models CFX96, CFX384, DNA Engine Opticon 2; Bio-Rad/MJ Research Chromo4; Roche LightCycler 480 (96-well and 384-well); all other cyclers	330500
RT ² SYBR Green ROX™ qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 5700, 7000, 7300, 7500 [Standard and FAST], 7700, 7900HT 96-well block [Standard and FAST] and 384-well block, StepOnePlus; Eppendorf Mastercycler ep realplex models 2, 2S, 4, 4S; Stratagene models Mx3000P, Mx3005P, Mx4000; Takara TP-800	330520
RT ² SYBR Green Fluor qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler, iQ5, MyiQ, MyiQ2	330510

* Larger kit sizes available; please inquire.

RT² Profiler PCR Array products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

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