

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

Rhesus Macaque Housekeeping Genes

Cat. no. 330231 PAQQ-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 Rhesus Macaque Housekeeping Genes RT² Profiler PCR Array profiles the expression of 8 identical sets of 12 commonly used housekeeping genes. This array can be easily used to identify genes with a constant level of expression among different experimental conditions for use in normalizing 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, research studies can easily and reliably analyze the expression of these housekeeping genes among different experimental 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	LOC709186	LOC712934	NONO	PGK1	PPIH	RPL13A	TBP
B	ACTB	B2M	GAPDH	GUSB	HSP90AB1	LOC709186	LOC712934	NONO	PGK1	PPIH	RPL13A	TBP
C	ACTB	B2M	GAPDH	GUSB	HSP90AB1	LOC709186	LOC712934	NONO	PGK1	PPIH	RPL13A	TBP
D	ACTB	B2M	GAPDH	GUSB	HSP90AB1	LOC709186	LOC712934	NONO	PGK1	PPIH	RPL13A	TBP
E	ACTB	B2M	GAPDH	GUSB	HSP90AB1	LOC709186	LOC712934	NONO	PGK1	PPIH	RPL13A	TBP
F	ACTB	B2M	GAPDH	GUSB	HSP90AB1	LOC709186	LOC712934	NONO	PGK1	PPIH	RPL13A	TBP
G	ACTB	B2M	GAPDH	GUSB	HSP90AB1	LOC709186	LOC712934	NONO	PGK1	PPIH	RPL13A	TBP
H	ACTB	B2M	GAPDH	GUSB	HSP90AB1	LOC709186	LOC712934	NONO	PGK1	PPIH	RPL13A	TBP

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description	Assay
A01	Mmu.11089	NM_001033084	ACTB	Actin, beta	PPQ00182A
A02	Mmu.5037	NM_001047137	B2M	Beta-2-microglobulin	PPQ13262B
A03	Mmu.3145	NM_001195426	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPQ00249A
A04	Mmu.9544	XM_001087699	GUSB	Glucuronidase, beta, b	PPQ00368B
A05	Mmu.142	NM_001195533	HSP90AB1	Heat shock 90kDa protein 1, beta	PPQ06660A
A06	Mmu.12316	XM_001097691	LOC709186	Hypoxanthine-guanine phosphoribosyltransferase-like	PPQ11206B
A07	Mmu.16509	XM_001102090	LOC712934	Hypothetical LOC712934	PPQ13597B
A08	Mmu.2957	XM_001091198	NONO	Non-POU domain containing, octamer-binding	PPQ03278B
A09	Mmu.4126	NM_001195658	PGK1	Phosphoglycerate kinase 1	PPQ09326C
A10	Mmu.21551	XM_001087648	PPIH	Peptidylprolyl isomerase H (cyclophilin H)	PPQ03553B
A11	Mmu.2512	XM_001115079	RPL13A	Ribosomal protein L13A	PPQ00210B
A12	Mmu.20864	XM_001085368	TBP	TATA box binding protein	PPQ02563A
B01	Mmu.11089	NM_001033084	ACTB	Actin, beta	PPQ00182A
B02	Mmu.5037	NM_001047137	B2M	Beta-2-microglobulin	PPQ13262B
B03	Mmu.3145	NM_001195426	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPQ00249A
B04	Mmu.9544	XM_001087699	GUSB	Glucuronidase, beta, b	PPQ00368B
B05	Mmu.142	NM_001195533	HSP90AB1	Heat shock 90kDa protein 1, beta	PPQ06660A
B06	Mmu.12316	XM_001097691	LOC709186	Hypoxanthine-guanine phosphoribosyltransferase-like	PPQ11206B
B07	Mmu.16509	XM_001102090	LOC712934	Hypothetical LOC712934	PPQ13597B
B08	Mmu.2957	XM_001091198	NONO	Non-POU domain containing, octamer-binding	PPQ03278B
B09	Mmu.4126	NM_001195658	PGK1	Phosphoglycerate kinase 1	PPQ09326C
B10	Mmu.21551	XM_001087648	PPIH	Peptidylprolyl isomerase H (cyclophilin H)	PPQ03553B
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C01	Mmu.11089	NM_001033084	ACTB	Actin, beta	PPQ00182A
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D01	Mmu.11089	NM_001033084	ACTB	Actin, beta	PPQ00182A
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D12	Mmu.20864	XM_001085368	TBP	TATA box binding protein	PPQ02563A
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H12	Mmu.20864	XM_001085368	TBP	TATA box binding protein	PPQ02563A

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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