

RT² Profiler PCR Array (Rotor-Gene® Format)

Rhesus Macaque Housekeeping Genes

Cat. no. 330231 PAQQ-000ZR

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format R	Rotor-Gene Q, other Rotor-Gene cyclers

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 the Rotor-Gene format are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

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

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc™ (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance.

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mmu.4974	NM_001033084	ACTB	Actin, beta
A02	Mmu.5037	NM_001047137	B2M	Beta-2-microglobulin
A03	Mmu.3145	XM_001105471	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
A04	Mmu.9544	XM_001087699	GUSBB	Glucuronidase, beta, b
A05	Mmu.142	NM_001195533	HSP90AB1	Heat shock 90kDa protein 1, beta
A06	Mmu.12316	XM_001097691	LOC709186	Hypoxanthine-guanine phosphoribosyltransferase-like
A07	Mmu.4112	XM_001102090	LOC712934	Hypothetical LOC712934
A08	Mmu.2957	XM_001091198	NONO	Non-POU domain containing, octamer-binding
A09	Mmu.4126	NM_001195658	PGK1	Phosphoglycerate kinase 1
A10	Mmu.17244	XM_001087648	PPIH	Peptidylprolyl isomerase H (cyclophilin H)
A11	Mmu.2512	XM_001115079	RPL13A	Ribosomal protein L13A
A12	Mmu.12238	XM_001085368	TBP	TATA box binding protein
B01	Mmu.4974	NM_001033084	ACTB	Actin, beta
B02	Mmu.5037	NM_001047137	B2M	Beta-2-microglobulin
B03	Mmu.3145	XM_001105471	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
B04	Mmu.9544	XM_001087699	GUSBB	Glucuronidase, beta, b
B05	Mmu.142	NM_001195533	HSP90AB1	Heat shock 90kDa protein 1, beta
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C03	Mmu.3145	XM_001105471	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 ROX [™] FAST Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the Rotor-Gene Q and other Rotor-Gene cyclers	330620

* 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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