

RT² Profiler PCR Array (Rotor-Gene® Format)

Chinese Hamster Ovary (CHO) cell Housekeeping Genes

Cat. no. 330231 PAJJ-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 Chinese Hamster Ovary (CHO) cell 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.



Sample & Assay Technologies

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	N/A	NM_001244575	Actb	Actin, beta
A02	N/A	XM_003497123	Actr5	ARP5 actin-related protein 5 homolog (yeast)
A03	N/A	NM_001246674	B2m	Beta-2 microglobulin
A04	N/A	NM_001244854	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
A05	N/A	XM_003512985	Gusb	Glucuronidase, beta
A06	N/A	NM_001246819	LOC100689395	Transferrin receptor
A07	N/A	NM_001246725	LOC100689467	Phosphoglycerate kinase
A08	N/A	XM_003501668	LOC100754509	Heat shock protein HSP 90-beta-like
A09	N/A	XM_003495915	LOC100756201	60S acidic ribosomal protein P0-like
A10	N/A	XM_003503017	LOC100769768	Hypoxanthine-guanine phosphoribosyltransferase-like
A11	N/A	XM_003511050	Nono	Non-POU-domain-containing, octamer binding protein
A12	N/A	XM_003513635	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
B01	N/A	NM_001244575	Actb	Actin, beta
B02	N/A	XM_003497123	Actr5	ARP5 actin-related protein 5 homolog (yeast)
B03	N/A	NM_001246674	B2m	Beta-2 microglobulin
B04	N/A	NM_001244854	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
B05	N/A	XM_003512985	Gusb	Glucuronidase, beta
B06	N/A	NM_001246819	LOC100689395	Transferrin receptor
B07	N/A	NM_001246725	LOC100689467	Phosphoglycerate kinase
B08	N/A	XM_003501668	LOC100754509	Heat shock protein HSP 90-beta-like
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D01	N/A	NM_001244575	Actb	Actin, beta
D02	N/A	XM_003497123	Actr5	ARP5 actin-related protein 5 homolog (yeast)
D03	N/A	NM_001246674	B2m	Beta-2 microglobulin
D04	N/A	NM_001244854	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
D05	N/A	XM_003512985	Gusb	Glucuronidase, beta
			LOC100689	

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D06	N/A	NM_001246819	395	Transferrin receptor
D07	N/A	NM_001246725	LOC100689467	Phosphoglycerate kinase
D08	N/A	XM_003501668	LOC100754509	Heat shock protein HSP 90-beta-like
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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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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