

# RT<sup>2</sup> Profiler PCR Array (Rotor-Gene<sup>®</sup> Format)

## Horse Housekeeping Genes

Cat. no. 330231 PAEC-000ZR

For pathway expression analysis

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

### Description

The Horse Housekeeping Genes RT<sup>2</sup> 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 *RT<sup>2</sup> Profiler PCR Array Handbook*.

### Shipping and storage

RT<sup>2</sup> 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 RT<sup>2</sup> Profiler PCR Array format for your real-time cycler (see table above).

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



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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: RT<sup>2</sup> Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Eca.15483	NM_001081838	ACTB	Actin, beta
A02	Eca.13489	NM_001082502	B2M	Beta-2-microglobulin
A03	Eca.487	NM_001163856	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
A04	Eca.13373	XM_001493514	GUSB	Glucuronidase, beta
A05	N/A	XM_001490933	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
A06	Eca.12727	XM_001490189	HPRT1	Hypoxanthine phosphoribosyltransferase 1
A07	Eca.1802	NM_001081938	HSP90AB1	Heat shock protein 90
A08	Eca.9990	XM_001499329	LOC100049846	TATA-box-binding protein-like
A09	Eca.13629	XM_001492042	LOC100056766	60S ribosomal protein L32-like
A10	N/A	XM_001492800	NONO	Non-POU domain containing, octamer-binding
A11	N/A	XM_001490889	SDHA	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
A12	Eca.62	NM_001081862	UBC	Ubiquitin C
B01	Eca.15483	NM_001081838	ACTB	Actin, beta
B02	Eca.13489	NM_001082502	B2M	Beta-2-microglobulin
B03	Eca.487	NM_001163856	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
B04	Eca.13373	XM_001493514	GUSB	Glucuronidase, beta
B05	N/A	XM_001490933	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
B06	Eca.12727	XM_001490189	HPRT1	Hypoxanthine phosphoribosyltransferase 1
B07	Eca.1802	NM_001081938	HSP90AB1	Heat shock protein 90
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B12	Eca.62	NM_001081862	UBC	Ubiquitin C
C01	Eca.15483	NM_001081838	ACTB	Actin, beta
C02	Eca.13489	NM_001082502	B2M	Beta-2-microglobulin
C03	Eca.487	NM_001163856	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
C04	Eca.13373	XM_001493514	GUSB	Glucuronidase, beta
C05	N/A	XM_001490933	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
C06	Eca.12727	XM_001490189	HPRT1	Hypoxanthine phosphoribosyltransferase 1
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D01	Eca.15483	NM_001081838	ACTB	Actin, beta
D02	Eca.13489	NM_001082502	B2M	Beta-2-microglobulin
D03	Eca.487	NM_001163856	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
D04	Eca.13373	XM_001493514	GUSB	Glucuronidase, beta
D05	N/A	XM_001490933	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
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E01	Eca.15483	NM_001081838	ACTB	Actin, beta

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## Related products

For optimal performance, RT<sup>2</sup> Profiler PCR Arrays should be used together with the RT<sup>2</sup> First Strand Kit for cDNA synthesis and RT<sup>2</sup> SYBR<sup>®</sup> Green qPCR Mastermixes for PCR.

Product	Contents	Cat. no.
RT <sup>2</sup> First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT <sup>2</sup> SYBR Green ROX <sup>™</sup> 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.

RT<sup>2</sup> 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](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

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