

RT² Profiler PCR Array (Rotor-Gene® Format)

Pig Housekeeping Genes

Cat. no. 330231 PASS-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 Pig 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	Ssc.37707	NM_001167795	ACTA1	Actin, alpha 1, skeletal muscle
A02	Ssc.10316	XM_003357928	ACTB	Actin, beta
A03	Ssc.73773	NM_213978	B2M	Beta-2-microglobulin
A04	Ssc.16135	NM_001206359	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
A05	Ssc.18585	NM_001123121	GUSB	Glucuronidase, beta
A06	Ssc.4158	NM_001032376	HPRT1	Hypoxanthine phosphoribosyltransferase 1
A07	Ssc.50275	NM_001172363	LDHA	Lactate dehydrogenase A
A08	Ssc.23800	NM_001099932	PGK1	Phosphoglycerate kinase 1
A09	Ssc.55440	NM_214353	PPIA	Peptidylprolyl isomerase A (cyclophilin A)
A10	Ssc.27927	XM_003127305	RPL13A	Ribosomal protein L13a
A11	N/A	XM_003360434	RPLP1	Ribosomal protein, large, P1
A12	Ssc.38	NM_214001	TFRC	Transferrin receptor (p90, CD71)
B01	Ssc.37707	NM_001167795	ACTA1	Actin, alpha 1, skeletal muscle
B02	Ssc.10316	XM_003357928	ACTB	Actin, beta
B03	Ssc.73773	NM_213978	B2M	Beta-2-microglobulin
B04	Ssc.16135	NM_001206359	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
B05	Ssc.18585	NM_001123121	GUSB	Glucuronidase, beta
B06	Ssc.4158	NM_001032376	HPRT1	Hypoxanthine phosphoribosyltransferase 1
B07	Ssc.50275	NM_001172363	LDHA	Lactate dehydrogenase A
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D05	Ssc.18585	NM_001123121	GUSB	Glucuronidase, beta
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H12	Ssc.38	NM_214001	TFRC	Transferrin receptor (p90, CD71)

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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