

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

Chicken Housekeeping Genes

Cat. no. 330231 PAGG-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 Chicken 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	ACTA1	ACTB	GAPDH	GUSB	H6PD	HMBS	LDHA	RPL4	RPLP0	RPLP1	TFRC	UBC
B	ACTA1	ACTB	GAPDH	GUSB	H6PD	HMBS	LDHA	RPL4	RPLP0	RPLP1	TFRC	UBC
C	ACTA1	ACTB	GAPDH	GUSB	H6PD	HMBS	LDHA	RPL4	RPLP0	RPLP1	TFRC	UBC
D	ACTA1	ACTB	GAPDH	GUSB	H6PD	HMBS	LDHA	RPL4	RPLP0	RPLP1	TFRC	UBC
E	ACTA1	ACTB	GAPDH	GUSB	H6PD	HMBS	LDHA	RPL4	RPLP0	RPLP1	TFRC	UBC
F	ACTA1	ACTB	GAPDH	GUSB	H6PD	HMBS	LDHA	RPL4	RPLP0	RPLP1	TFRC	UBC
G	ACTA1	ACTB	GAPDH	GUSB	H6PD	HMBS	LDHA	RPL4	RPLP0	RPLP1	TFRC	UBC
H	ACTA1	ACTB	GAPDH	GUSB	H6PD	HMBS	LDHA	RPL4	RPLP0	RPLP1	TFRC	UBC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description	Assay
A01	Gga.5962	NM_001031063	ACTA1	Actin, alpha 1, skeletal muscle	PPG06508A
A02	Gga.48207	NM_205518	ACTB	Actin, beta	PPG17308A
A03	Gga.6383	NM_204305	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPG00285B
A04	Gga.16004	NM_001039316	GUSB	Glucuronidase, beta	PPG10136A
A05	Gga.50291	XM_425746	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	PPG10346A
A06	Gga.8480	XM_417846	HMBS	Hydroxymethylbilane synthase	PPG05149A
A07	Gga.4398	NM_205284	LDHA	Lactate dehydrogenase A	PPG01437B
A08	Gga.4523	NM_001007479	RPL4	Ribosomal protein L4	PPG02048A
A09	Gga.33624	NM_204987	RPLP0	Ribosomal protein, large, P0	PPG01103A
A10	Gga.23911	NM_205322	RPLP1	Ribosomal protein, large, P1	PPG01475A
A11	Gga.3619	NM_205256	TFRC	Transferrin receptor (p90, CD71)	PPG01408A
A12	Gga.39142	XM_001234599	UBC	Ubiquitin C	PPG01607A
B01	Gga.5962	NM_001031063	ACTA1	Actin, alpha 1, skeletal muscle	PPG06508A
B02	Gga.48207	NM_205518	ACTB	Actin, beta	PPG17308A
B03	Gga.6383	NM_204305	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPG00285B
B04	Gga.16004	NM_001039316	GUSB	Glucuronidase, beta	PPG10136A
B05	Gga.50291	XM_425746	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	PPG10346A
B06	Gga.8480	XM_417846	HMBS	Hydroxymethylbilane synthase	PPG05149A
B07	Gga.4398	NM_205284	LDHA	Lactate dehydrogenase A	PPG01437B
B08	Gga.4523	NM_001007479	RPL4	Ribosomal protein L4	PPG02048A
B09	Gga.33624	NM_204987	RPLP0	Ribosomal protein, large, P0	PPG01103A
B10	Gga.23911	NM_205322	RPLP1	Ribosomal protein, large, P1	PPG01475A
B11	Gga.3619	NM_205256	TFRC	Transferrin receptor (p90, CD71)	PPG01408A
B12	Gga.39142	XM_001234599	UBC	Ubiquitin C	PPG01607A
C01	Gga.5962	NM_001031063	ACTA1	Actin, alpha 1, skeletal muscle	PPG06508A
C02	Gga.48207	NM_205518	ACTB	Actin, beta	PPG17308A
C03	Gga.6383	NM_204305	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPG00285B
C04	Gga.16004	NM_001039316	GUSB	Glucuronidase, beta	PPG10136A
C05	Gga.50291	XM_425746	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	PPG10346A
C06	Gga.8480	XM_417846	HMBS	Hydroxymethylbilane synthase	PPG05149A
C07	Gga.4398	NM_205284	LDHA	Lactate dehydrogenase A	PPG01437B
C08	Gga.4523	NM_001007479	RPL4	Ribosomal protein L4	PPG02048A
C09	Gga.33624	NM_204987	RPLP0	Ribosomal protein, large, P0	PPG01103A
C10	Gga.23911	NM_205322	RPLP1	Ribosomal protein, large, P1	PPG01475A
C11	Gga.3619	NM_205256	TFRC	Transferrin receptor (p90, CD71)	PPG01408A
C12	Gga.39142	XM_001234599	UBC	Ubiquitin C	PPG01607A
D01	Gga.5962	NM_001031063	ACTA1	Actin, alpha 1, skeletal muscle	PPG06508A
D02	Gga.48207	NM_205518	ACTB	Actin, beta	PPG17308A
D03	Gga.6383	NM_204305	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPG00285B
D04	Gga.16004	NM_001039316	GUSB	Glucuronidase, beta	PPG10136A
D05	Gga.50291	XM_425746	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	PPG10346A
D06	Gga.8480	XM_417846	HMBS	Hydroxymethylbilane synthase	PPG05149A
D07	Gga.4398	NM_205284	LDHA	Lactate dehydrogenase A	PPG01437B
D08	Gga.4523	NM_001007479	RPL4	Ribosomal protein L4	PPG02048A
D09	Gga.33624	NM_204987	RPLP0	Ribosomal protein, large, P0	PPG01103A

Position	UniGene	GenBank	Symbol	Description	Assay
D10	Gga.23911	NM_205322	RPLP1	Ribosomal protein, large, P1	PPG01475A
D11	Gga.3619	NM_205256	TFRC	Transferrin receptor (p90, CD71)	PPG01408A
D12	Gga.39142	XM_001234599	UBC	Ubiquitin C	PPG01607A
E01	Gga.5962	NM_001031063	ACTA1	Actin, alpha 1, skeletal muscle	PPG06508A
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H11	Gga.3619	NM_205256	TFRC	Transferrin receptor (p90, CD71)	PPG01408A
H12	Gga.39142	XM_001234599	UBC	Ubiquitin C	PPG01607A

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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