

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

Rabbit Housekeeping Genes

Cat. no. 330231 PANZ-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 Rabbit 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	ACTA2	ACTB	GAPDH	HMBS	HPRT1	LDHA	LOC1003433 65	LOC1003469 36	LOC1003513 47	LOC1003548 69	LOC1003549 57	PPIA
B	ACTA2	ACTB	GAPDH	HMBS	HPRT1	LDHA	LOC1003433 65	LOC1003469 36	LOC1003513 47	LOC1003548 69	LOC1003549 57	PPIA
C	ACTA2	ACTB	GAPDH	HMBS	HPRT1	LDHA	LOC1003433 65	LOC1003469 36	LOC1003513 47	LOC1003548 69	LOC1003549 57	PPIA
D	ACTA2	ACTB	GAPDH	HMBS	HPRT1	LDHA	LOC1003433 65	LOC1003469 36	LOC1003513 47	LOC1003548 69	LOC1003549 57	PPIA
E	ACTA2	ACTB	GAPDH	HMBS	HPRT1	LDHA	LOC1003433 65	LOC1003469 36	LOC1003513 47	LOC1003548 69	LOC1003549 57	PPIA
F	ACTA2	ACTB	GAPDH	HMBS	HPRT1	LDHA	LOC1003433 65	LOC1003469 36	LOC1003513 47	LOC1003548 69	LOC1003549 57	PPIA
G	ACTA2	ACTB	GAPDH	HMBS	HPRT1	LDHA	LOC1003433 65	LOC1003469 36	LOC1003513 47	LOC1003548 69	LOC1003549 57	PPIA
H	ACTA2	ACTB	GAPDH	HMBS	HPRT1	LDHA	LOC1003433 65	LOC1003469 36	LOC1003513 47	LOC1003548 69	LOC1003549 57	PPIA

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Ocu.2090	NM_001101682	ACTA2	Actin, alpha 2, smooth muscle, aorta
A02	Ocu.734	NM_001101683	ACTB	Actin, beta
A03	Ocu.87	NM_001082253	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
A04	N/A	XM_002722723	HMBS	Hydroxymethylbilane synthase
A05	Ocu.7325	NM_001105671	HPRT1	Hypoxanthine phosphoribosyltransferase 1
A06	Ocu.1108	NM_001082277	LDHA	Lactate dehydrogenase A
A07	N/A	XM_002723497	LOC100343365	TATA box binding protein
A08	N/A	XM_002723383	LOC100346936	Non-POU domain containing, octamer-binding-like
A09	N/A	XM_002718785	LOC100351347	Ubiquitin B-like
A10	N/A	XM_002714163	LOC100354869	Eukaryotic translation elongation factor 1 epsilon 1
A11	N/A	XM_002715708	LOC100354957	Peptidylprolyl isomerase H
A12	Ocu.6197	NM_001082057	PPIA	Peptidylprolyl isomerase A (cyclophilin A)
B01	Ocu.2090	NM_001101682	ACTA2	Actin, alpha 2, smooth muscle, aorta
B02	Ocu.734	NM_001101683	ACTB	Actin, beta
B03	Ocu.87	NM_001082253	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
B04	N/A	XM_002722723	HMBS	Hydroxymethylbilane synthase
B05	Ocu.7325	NM_001105671	HPRT1	Hypoxanthine phosphoribosyltransferase 1
B06	Ocu.1108	NM_001082277	LDHA	Lactate dehydrogenase A
B07	N/A	XM_002723497	LOC100343365	TATA box binding protein
B08	N/A	XM_002723383	LOC100346936	Non-POU domain containing, octamer-binding-like
B09	N/A	XM_002718785	LOC100351347	Ubiquitin B-like
B10	N/A	XM_002714163	LOC100354869	Eukaryotic translation elongation factor 1 epsilon 1

Position	UniGene	GenBank	Symbol	Description
B11	N/A	XM_002715708	LOC100354 957	Peptidylprolyl isomerase H
B12	Ocu.6197	NM_001082057	PPIA	Peptidylprolyl isomerase A (cyclophilin A)
C01	Ocu.2090	NM_001101682	ACTA2	Actin, alpha 2, smooth muscle, aorta
C02	Ocu.734	NM_001101683	ACTB	Actin, beta
C03	Ocu.87	NM_001082253	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
C04	N/A	XM_002722723	HMBS	Hydroxymethylbilane synthase
C05	Ocu.7325	NM_001105671	HPRT1	Hypoxanthine phosphoribosyltransferase 1
C06	Ocu.1108	NM_001082277	LDHA	Lactate dehydrogenase A
C07	N/A	XM_002723497	LOC100343 365	TATA box binding protein
C08	N/A	XM_002723383	LOC100346 936	Non-POU domain containing, octamer-binding-like
C09	N/A	XM_002718785	LOC100351 347	Ubiquitin B-like
C10	N/A	XM_002714163	LOC100354 869	Eukaryotic translation elongation factor 1 epsilon 1
C11	N/A	XM_002715708	LOC100354 957	Peptidylprolyl isomerase H
C12	Ocu.6197	NM_001082057	PPIA	Peptidylprolyl isomerase A (cyclophilin A)
D01	Ocu.2090	NM_001101682	ACTA2	Actin, alpha 2, smooth muscle, aorta
D02	Ocu.734	NM_001101683	ACTB	Actin, beta
D03	Ocu.87	NM_001082253	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
D04	N/A	XM_002722723	HMBS	Hydroxymethylbilane synthase
D05	Ocu.7325	NM_001105671	HPRT1	Hypoxanthine phosphoribosyltransferase 1
D06	Ocu.1108	NM_001082277	LDHA	Lactate dehydrogenase A
D07	N/A	XM_002723497	LOC100343 365	TATA box binding protein
D08	N/A	XM_002723383	LOC100346 936	Non-POU domain containing, octamer-binding-like
D09	N/A	XM_002718785	LOC100351 347	Ubiquitin B-like
D10	N/A	XM_002714163	LOC100354 869	Eukaryotic translation elongation factor 1 epsilon 1
D11	N/A	XM_002715708	LOC100354 957	Peptidylprolyl isomerase H
D12	Ocu.6197	NM_001082057	PPIA	Peptidylprolyl isomerase A (cyclophilin A)
E01	Ocu.2090	NM_001101682	ACTA2	Actin, alpha 2, smooth muscle, aorta
E02	Ocu.734	NM_001101683	ACTB	Actin, beta
E03	Ocu.87	NM_001082253	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
E04	N/A	XM_002722723	HMBS	Hydroxymethylbilane synthase
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F10	N/A	XM_002714163	LOC100354 869	Eukaryotic translation elongation factor 1 epsilon 1
F11	N/A	XM_002715708	LOC100354 957	Peptidylprolyl isomerase H
F12	Ocu.6197	NM_001082057	PPIA	Peptidylprolyl isomerase A (cyclophilin A)

Position	UniGene	GenBank	Symbol	Description
G01	Ocu.2090	NM_001101682	ACTA2	Actin, alpha 2, smooth muscle, aorta
G02	Ocu.734	NM_001101683	ACTB	Actin, beta
G03	Ocu.87	NM_001082253	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
G04	N/A	XM_002722723	HMBS	Hydroxymethylbilane synthase
G05	Ocu.7325	NM_001105671	HPRT1	Hypoxanthine phosphoribosyltransferase 1
G06	Ocu.1108	NM_001082277	LDHA	Lactate dehydrogenase A
G07	N/A	XM_002723497	LOC100343365	TATA box binding protein
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G10	N/A	XM_002714163	LOC100354869	Eukaryotic translation elongation factor 1 epsilon 1
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H10	N/A	XM_002714163	LOC100354869	Eukaryotic translation elongation factor 1 epsilon 1
H11	N/A	XM_002715708	LOC100354957	Peptidylprolyl isomerase H
H12	Ocu.6197	NM_001082057	PPIA	Peptidylprolyl isomerase A (cyclophilin A)

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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