

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

Mouse Housekeeping Genes

Cat. no. 330231 PAMM-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 Mouse Housekeeping Genes RT² Profiler PCR Array profiles the expression of eight (8) identical sets of twelve (12) commonly used housekeeping genes. This array can be easily used to identify genes with a constant level of expression among your different experimental conditions for use in normalizing your 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, you can easily and reliably evaluate the expression of these housekeeping genes among your different experiment 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	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
B	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
C	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
D	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
E	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
F	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
G	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	Ldha	Pgk1	Ppih	Sdha	Tbp	Tfrc	Ubc

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.328431	NM_007393	Actb	Actin, beta
A02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
A03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
A04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
A05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
A06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
A07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
A08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
A09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
A10	Mm.244820	NM_013684	Tbp	TATA box binding protein
A11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
A12	Mm.331	NM_019639	Ubc	Ubiquitin C
B01	Mm.328431	NM_007393	Actb	Actin, beta
B02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
B03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
B04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
B05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
B06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
B07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
B08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
B09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
B10	Mm.244820	NM_013684	Tbp	TATA box binding protein
B11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
B12	Mm.331	NM_019639	Ubc	Ubiquitin C
C01	Mm.328431	NM_007393	Actb	Actin, beta
C02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
C03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
C04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
C05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
C06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
C07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
C08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
C09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
C10	Mm.244820	NM_013684	Tbp	TATA box binding protein
C11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
C12	Mm.331	NM_019639	Ubc	Ubiquitin C
D01	Mm.328431	NM_007393	Actb	Actin, beta
D02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
D03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
D04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
D05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
D06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
D07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
D08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
D09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)

Position	UniGene	GenBank	Symbol	Description
D10	Mm.244820	NM_013684	Tbp	TATA box binding protein
D11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
D12	Mm.331	NM_019639	Ubc	Ubiquitin C
E01	Mm.328431	NM_007393	Actb	Actin, beta
E02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
E03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
E04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
E05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
E06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
E07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
E08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
E09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
E10	Mm.244820	NM_013684	Tbp	TATA box binding protein
E11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
E12	Mm.331	NM_019639	Ubc	Ubiquitin C
F01	Mm.328431	NM_007393	Actb	Actin, beta
F02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
F03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
F04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
F05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
F06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
F07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
F08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
F09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
F10	Mm.244820	NM_013684	Tbp	TATA box binding protein
F11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
F12	Mm.331	NM_019639	Ubc	Ubiquitin C
G01	Mm.328431	NM_007393	Actb	Actin, beta
G02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
G03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
G04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
G05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
G06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
G07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
G08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
G09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
G10	Mm.244820	NM_013684	Tbp	TATA box binding protein
G11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
G12	Mm.331	NM_019639	Ubc	Ubiquitin C
H01	Mm.328431	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
H04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
H05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
H06	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
H07	Mm.336205	NM_008828	Pgk1	Phosphoglycerate kinase 1
H08	Mm.371613	NM_028677	Ppih	Peptidyl prolyl isomerase H
H09	Mm.158231	NM_023281	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
H10	Mm.244820	NM_013684	Tbp	TATA box binding protein
H11	Mm.28683	NM_011638	Tfrc	Transferrin receptor
H12	Mm.331	NM_019639	Ubc	Ubiquitin C

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.

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.

Trademarks: QIAGEN® (QIAGEN Group); Applied Biosystems®, ViiA™, StepOnePlus™, ROX™ (Applied Biosystems Corporation or its subsidiaries); Bio-Rad®, iCycler®, iQ™, MyiQ™, Chromo4™, CFX96™, DNA Engine Opticon®, CFX384™ (Bio-Rad Laboratories, Inc.); Stratagene®, Mx3005P®, Mx3000P®, Mx4000® (Stratagene); Eppendorf®, Mastercycler® (Eppendorf AG); Roche®, LightCycler® (Roche Group); Fluidigm® BioMark™ (Fluidigm Corporation); SYBR® (Molecular Probes, Inc.).

1066029 03/2011 © 2011 QIAGEN, all rights reserved.

www.qiagen.com

Canada ■ 800-572-9613

China ■ 8621-3865-3865

Denmark ■ 80-885945

Finland ■ 0800-914416

France ■ 01-60-920-930

Germany ■ 02103-29-12000

Hong Kong ■ 800 933 965

Ireland ■ 1800 555 049

Italy ■ 800-787980

Japan ■ 03-6890-7300

Korea (South) ■ 080-000-7145

Luxembourg ■ 8002 2076

Mexico ■ 01-800-7742-436

The Netherlands ■ 0800 0229592

Norway ■ 800-18859

Singapore ■ 1800-742-4368

Spain ■ 91-630-7050

Sweden ■ 020-790282

Switzerland ■ 055-254-22-11

UK ■ 01293-422-911

USA ■ 800-426-8157

Australia ■ 1-800-243-800

Austria ■ 0800/281010

Belgium ■ 0800-79612

Brazil ■ 0800-557779



Sample & Assay Technologies