

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

Human Interferons & Receptors

Cat. no. 330231 PAHS-064ZA

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 Human Interferons & Receptors RT² Profiler PCR Array profiles the expression of 84 genes whose expression is controlled by or involved in cell signaling mediated by interferon ligands and receptors. Four major groups of genes are included on this PCR array: interferons (IFN ligands), interferon receptors, interferon regulatory genes and interferon-inducible genes. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to IFN signaling 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	ADAR	CNTFR	CRLF2	CSF2RA	CSF3R	CXCL10	EBI3	F3	IFI16	IFI27	IFI30	IFI35
B	IFI44	IFI44L	IFI6	IFIH1	IFIT1	IFIT2	IFIT3	IFITM1	IFITM2	IFNA1	IFNA14	IFNA16
C	IFNA2	IFNA21	IFNA4	IFNA5	IFNA6	IFNA7	IFNA8	IFNAR1	IFNAR2	IFNB1	IFNE	IFNG
D	IFNGR1	IFNGR2	IFNK	IFNW1	IFRD1	IFRD2	IL10RA	IL10RB	IL11RA	IL12B	IL13RA1	IL15
E	IL20RA	IL20RB	IL21R	IL22RA2	IL28A	IL28RA	IL29	IL2RB	IL2RG	IL31RA	IL3RA	IL4R
F	IL5RA	IL6	IL6R	IL7R	IL9R	IRF1	IRF2	IRF2BP1	IRF3	IRF4	IRF5	IRF6
G	IRF7	IRF8	IRGM	ISG15	LEPR	MPL	MX1	OAS1	PSME1	PFYHIN1	SP110	TTN
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Hs.12341	NM_001111	ADAR	Adenosine deaminase, RNA-specific
A02	Hs.129966	NM_001842	CNTFR	Ciliary neurotrophic factor receptor
A03	Hs.287729	NM_001012288	CRLF2	Cytokine receptor-like factor 2
A04	Hs.520937	NM_006140	CSF2RA	Colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
A05	Hs.524517	NM_000760	CSF3R	Colony stimulating factor 3 receptor (granulocyte)
A06	Hs.632586	NM_001565	CXCL10	Chemokine (C-X-C motif) ligand 10
A07	Hs.501452	NM_005755	EBI3	Epslein-Barr virus induced 3
A08	Hs.62192	NM_001993	F3	Coagulation factor III (thromboplastin, tissue factor)
A09	Hs.380250	NM_005531	IFI16	Interferon, gamma-inducible protein 16
A10	Hs.532634	NM_005532	IFI27	Interferon, alpha-inducible protein 27
A11	Hs.14623	NM_006332	IFI30	Interferon, gamma-inducible protein 30
A12	Hs.632258	NM_005533	IFI35	Interferon-induced protein 35
B01	Hs.82316	NM_006417	IFI44	Interferon-induced protein 44
B02	Hs.389724	NM_006820	IFI44L	Interferon-induced protein 44-like
B03	Hs.730125	NM_002038	IFI6	Interferon, alpha-inducible protein 6
B04	Hs.163173	NM_022168	IFIH1	Interferon induced with helicase C domain 1
B05	Hs.20315	NM_001548	IFIT1	Interferon-induced protein with tetratricopeptide repeats 1
B06	Hs.437609	NM_001547	IFIT2	Interferon-induced protein with tetratricopeptide repeats 2
B07	Hs.714337	NM_001549	IFIT3	Interferon-induced protein with tetratricopeptide repeats 3
B08	Hs.458414	NM_003641	IFITM1	Interferon induced transmembrane protein 1 (9-27)
B09	Hs.709321	NM_006435	IFITM2	Interferon induced transmembrane protein 2 (1-8D)
B10	Hs.37026	NM_024013	IFNA1	Interferon, alpha 1
B11	Hs.93907	NM_002172	IFNA14	Interferon, alpha 14
B12	Hs.56303	NM_002173	IFNA16	Interferon, alpha 16
C01	Hs.211575	NM_000605	IFNA2	Interferon, alpha 2
C02	Hs.113211	NM_002175	IFNA21	Interferon, alpha 21
C03	Hs.1510	NM_021068	IFNA4	Interferon, alpha 4
C04	Hs.37113	NM_002169	IFNA5	Interferon, alpha 5
C05	Hs.533470	NM_021002	IFNA6	Interferon, alpha 6
C06	Hs.282274	NM_021057	IFNA7	Interferon, alpha 7
C07	Hs.73890	NM_002170	IFNA8	Interferon, alpha 8
C08	Hs.529400	NM_000629	IFNAR1	Interferon (alpha, beta and omega) receptor 1
C09	Hs.708195	NM_000874	IFNAR2	Interferon (alpha, beta and omega) receptor 2
C10	Hs.93177	NM_002176	IFNB1	Interferon, beta 1, fibroblast
C11	Hs.682604	NM_176891	IFNE	Interferon, epsilon
C12	Hs.856	NM_000619	IFNG	Interferon, gamma
D01	Hs.520414	NM_000416	IFNGR1	Interferon gamma receptor 1
D02	Hs.634632	NM_005534	IFNGR2	Interferon gamma receptor 2 (interferon gamma transducer 1)
D03	Hs.591083	NM_020124	IFNK	Interferon, kappa
D04	Hs.73010	NM_002177	IFNW1	Interferon, omega 1
D05	Hs.7879	NM_001550	IFRD1	Interferon-related developmental regulator 1
D06	Hs.315177	NM_006764	IFRD2	Interferon-related developmental regulator 2
D07	Hs.504035	NM_001558	IL10RA	Interleukin 10 receptor, alpha
D08	Hs.654593	NM_000628	IL10RB	Interleukin 10 receptor, beta

Position	UniGene	GenBank	Symbol	Description
D09	Hs.591088	NM_004512	IL11RA	Interleukin 11 receptor, alpha
D10	Hs.674	NM_002187	IL12B	Interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)
D11	Hs.496646	NM_001560	IL13RA1	Interleukin 13 receptor, alpha 1
D12	Hs.654378	NM_000585	IL15	Interleukin 15
E01	Hs.445868	NM_014432	IL20RA	Interleukin 20 receptor, alpha
E02	Hs.61232	NM_144717	IL20RB	Interleukin 20 receptor beta
E03	Hs.210546	NM_021798	IL21R	Interleukin 21 receptor
E04	Hs.126891	NM_052962	IL22RA2	Interleukin 22 receptor, alpha 2
E05	Hs.567792	NM_172138	IL28A	Interleukin 28A (interferon, lambda 2)
E06	Hs.221375	NM_173065	IL28RA	Interleukin 28 receptor, alpha (interferon, lambda receptor)
E07	Hs.406745	NM_172140	IL29	Interleukin 29 (interferon, lambda 1)
E08	Hs.474787	NM_000878	IL2RB	Interleukin 2 receptor, beta
E09	Hs.84	NM_000206	IL2RG	Interleukin 2 receptor, gamma
E10	Hs.55378	NM_139017	IL31RA	Interleukin 31 receptor A
E11	Hs.632790	NM_002183	IL3RA	Interleukin 3 receptor, alpha (low affinity)
E12	Hs.513457	NM_000418	IL4R	Interleukin 4 receptor
F01	Hs.68876	NM_000564	IL5RA	Interleukin 5 receptor, alpha
F02	Hs.654458	NM_000600	IL6	Interleukin 6 (interferon, beta 2)
F03	Hs.709210	NM_000565	IL6R	Interleukin 6 receptor
F04	Hs.591742	NM_002185	IL7R	Interleukin 7 receptor
F05	Hs.406228	NM_002186	IL9R	Interleukin 9 receptor
F06	Hs.436061	NM_002198	IRF1	Interferon regulatory factor 1
F07	Hs.654566	NM_002199	IRF2	Interferon regulatory factor 2
F08	Hs.515477	NM_015649	IRF2BP1	Interferon regulatory factor 2 binding protein 1
F09	Hs.75254	NM_001571	IRF3	Interferon regulatory factor 3
F10	Hs.401013	NM_002460	IRF4	Interferon regulatory factor 4
F11	Hs.521181	NM_001098629	IRF5	Interferon regulatory factor 5
F12	Hs.591415	NM_006147	IRF6	Interferon regulatory factor 6
G01	Hs.166120	NM_001572	IRF7	Interferon regulatory factor 7
G02	Hs.137427	NM_002163	IRF8	Interferon regulatory factor 8
G03	Hs.519680	NM_001145805	IRGM	Immunity-related GTPase family, M
G04	Hs.458485	NM_005101	ISG15	ISG15 ubiquitin-like modifier
G05	Hs.705413	NM_002303	LEPR	Leptin receptor
G06	Hs.82906	NM_005373	MPL	Myeloproliferative leukemia virus oncogene
G07	Hs.517307	NM_002462	MX1	Myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)
G08	Hs.524760	NM_002534	OAS1	2'-5'-oligoadenylate synthetase 1, 40/46kDa
G09	Hs.75348	NM_176783	PSME1	Proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)
G10	Hs.710248	NM_152501	PYHIN1	Pyrin and HIN domain family, member 1
G11	Hs.145150	NM_004509	SP110	SP110 nuclear body protein
G12	Hs.134602	NM_003319	TTN	Titin
H01	Hs.520640	NM_001101	ACTB	Actin, beta
H02	Hs.534255	NM_004048	B2M	Beta-2-microglobulin
H03	Hs.592355	NM_002046	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
H04	Hs.412707	NM_000194	HPRT1	Hypoxanthine phosphoribosyltransferase 1
H05	Hs.546285	NM_001002	RPLP0	Ribosomal protein, large, P0
H06	N/A	SA_00105	HGDC	Human Genomic DNA Contamination
H07	N/A	SA_00104	RTC	Reverse Transcription Control
H08	N/A	SA_00104	RTC	Reverse Transcription Control
H09	N/A	SA_00104	RTC	Reverse Transcription Control
H10	N/A	SA_00103	PPC	Positive PCR Control
H11	N/A	SA_00103	PPC	Positive PCR Control
H12	N/A	SA_00103	PPC	Positive PCR Control

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

Ireland ■ 1800 555 049

Norway ■ 800-18859

China ■ 8621-3865-3865

Italy ■ 800-787980

Singapore ■ 1800-742-4368

Denmark ■ 80-885945

Japan ■ 03-6890-7300

Spain ■ 91-630-7050

Australia ■ 1-800-243-800

Finland ■ 0800-914416

Korea (South) ■ 080-000-7145

Sweden ■ 020-790282

Austria ■ 0800/281010

France ■ 01-60-920-930

Luxembourg ■ 8002 2076

Switzerland ■ 055-254-22-11

Belgium ■ 0800-79612

Germany ■ 02103-29-12000

Mexico ■ 01-800-7742-436

UK ■ 01293-422-911

Brazil ■ 0800-557779

Hong Kong ■ 800 933 965

The Netherlands ■ 0800 0229592

USA ■ 800-426-8157



Sample & Assay Technologies