

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

Human Inflammatory Response & Autoimmunity

Cat. no. 330231 PAHS-077ZA

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 Inflammatory Response & Autoimmunity RT² Profiler PCR Array profiles the expression of 84 key genes involved in autoimmune and inflammatory immune responses. It represents the expression of inflammatory cytokines and chemokines as well as their receptors. It also contains genes related to the metabolism of cytokines and involved in cytokine-cytokine receptor interactions. Thoroughly researched panels of genes involved in the acute-phase response, inflammatory response, and humoral immune responses are represented as well. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to inflammatory and autoimmune responses 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	BCL6	C3	C3AR1	CCL11	CCL13	CCL16	CCL17	CCL19	CCL2	CCL21	CCL22	CCL23
B	CCL24	CCL3	CCL4	CCL5	CCL7	CCL8	CCR1	CCR2	CCR3	CCR4	CCR7	CD14
C	CD40	CD40LG	CEBPB	CRP	CSF1	CXCL1	CXCL10	CXCL2	CXCL3	CXCL5	CXCL6	CXCL9
D	CXCR1	CXCR2	CXCR4	FASLG	FOS	IFNG	IL10	IL10RB	IL15	IL17A	IL18	IL1A
E	IL18	IL1R1	IL1RAP	IL1RN	IL22	IL23A	IL23R	IL5	IL6	IL6R	IL8	IL9
F	ITGB2	KNG1	LTA	LTB	LY96	MYD88	NFKB1	NOS2	NR3C1	PTGS2	RIPK2	SELE
G	TIRAP	TLR1	TLR2	TLR3	TLR4	TLR5	TLR6	TLR7	TLR9	TNF	TNFSF14	TOLLIP
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.478588	NM_001706	BCL6	B-cell CLL/lymphoma 6
A02	Hs.529053	NM_000064	C3	Complement component 3
A03	Hs.591148	NM_004054	C3AR1	Complement component 3a receptor 1
A04	Hs.54460	NM_002986	CCL11	Chemokine (C-C motif) ligand 11
A05	Hs.414629	NM_005408	CCL13	Chemokine (C-C motif) ligand 13
A06	Hs.10458	NM_004590	CCL16	Chemokine (C-C motif) ligand 16
A07	Hs.546294	NM_002987	CCL17	Chemokine (C-C motif) ligand 17
A08	Hs.50002	NM_006274	CCL19	Chemokine (C-C motif) ligand 19
A09	Hs.303649	NM_002982	CCL2	Chemokine (C-C motif) ligand 2
A10	Hs.57907	NM_002989	CCL21	Chemokine (C-C motif) ligand 21
A11	Hs.534347	NM_002990	CCL22	Chemokine (C-C motif) ligand 22
A12	Hs.169191	NM_005064	CCL23	Chemokine (C-C motif) ligand 23
B01	Hs.247838	NM_002991	CCL24	Chemokine (C-C motif) ligand 24
B02	Hs.514107	NM_002983	CCL3	Chemokine (C-C motif) ligand 3
B03	Hs.75703	NM_002984	CCL4	Chemokine (C-C motif) ligand 4
B04	Hs.514821	NM_002985	CCL5	Chemokine (C-C motif) ligand 5
B05	Hs.251526	NM_006273	CCL7	Chemokine (C-C motif) ligand 7
B06	Hs.271387	NM_005623	CCL8	Chemokine (C-C motif) ligand 8
B07	Hs.301921	NM_001295	CCR1	Chemokine (C-C motif) receptor 1
B08	Hs.511794	NM_001123396	CCR2	Chemokine (C-C motif) receptor 2
B09	Hs.506190	NM_001837	CCR3	Chemokine (C-C motif) receptor 3
B10	Hs.184926	NM_005508	CCR4	Chemokine (C-C motif) receptor 4
B11	Hs.370036	NM_001838	CCR7	Chemokine (C-C motif) receptor 7
B12	Hs.163867	NM_000591	CD14	CD14 molecule
C01	Hs.472860	NM_001250	CD40	CD40 molecule, TNF receptor superfamily member 5
C02	Hs.592244	NM_000074	CD40LG	CD40 ligand
C03	Hs.517106	NM_005194	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta
C04	Hs.709456	NM_000567	CRP	C-reactive protein, pentraxin-related
C05	Hs.591402	NM_000757	CSF1	Colony stimulating factor 1 (macrophage)
C06	Hs.789	NM_001511	CXCL1	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)
C07	Hs.632586	NM_001565	CXCL10	Chemokine (C-X-C motif) ligand 10
C08	Hs.590921	NM_002089	CXCL2	Chemokine (C-X-C motif) ligand 2
C09	Hs.89690	NM_002090	CXCL3	Chemokine (C-X-C motif) ligand 3
C10	Hs.89714	NM_002994	CXCL5	Chemokine (C-X-C motif) ligand 5
C11	Hs.164021	NM_002993	CXCL6	Chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)
C12	Hs.77367	NM_002416	CXCL9	Chemokine (C-X-C motif) ligand 9
D01	Hs.194778	NM_000634	CXCR1	Chemokine (C-X-C motif) receptor 1
D02	Hs.846	NM_001557	CXCR2	Chemokine (C-X-C motif) receptor 2
D03	Hs.593413	NM_003467	CXCR4	Chemokine (C-X-C motif) receptor 4
D04	Hs.2007	NM_000639	FASLG	Fas ligand (TNF superfamily, member 6)
D05	Hs.728789	NM_005252	FOS	FBJ murine osteosarcoma viral oncogene homolog
D06	Hs.856	NM_000619	IFNG	Interferon, gamma
D07	Hs.193717	NM_000572	IL10	Interleukin 10
D08	Hs.654593	NM_000628	IL10RB	Interleukin 10 receptor, beta
D09	Hs.654378	NM_000585	IL15	Interleukin 15

Position	UniGene	GenBank	Symbol	Description
D10	Hs.41724	NM_002190	IL17A	Interleukin 17A
D11	Hs.83077	NM_001562	IL18	Interleukin 18 (interferon-gamma-inducing factor)
D12	Hs.1722	NM_000575	IL1A	Interleukin 1, alpha
E01	Hs.126256	NM_000576	IL1B	Interleukin 1, beta
E02	Hs.701982	NM_000877	IL1R1	Interleukin 1 receptor, type I
E03	Hs.478673	NM_002182	IL1RAP	Interleukin 1 receptor accessory protein
E04	Hs.81134	NM_000577	IL1RN	Interleukin 1 receptor antagonist
E05	Hs.287369	NM_020525	IL22	Interleukin 22
E06	Hs.98309	NM_016584	IL23A	Interleukin 23, alpha subunit p19
E07	Hs.677426	NM_144701	IL23R	Interleukin 23 receptor
E08	Hs.2247	NM_000879	IL5	Interleukin 5 (colony-stimulating factor, eosinophil)
E09	Hs.654458	NM_000600	IL6	Interleukin 6 (interferon, beta 2)
E10	Hs.709210	NM_000565	IL6R	Interleukin 6 receptor
E11	Hs.624	NM_000584	IL8	Interleukin 8
E12	Hs.960	NM_000590	IL9	Interleukin 9
F01	Hs.375957	NM_000211	ITGB2	Integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
F02	Hs.77741	NM_000893	KNG1	Kininogen 1
F03	Hs.36	NM_000595	LTA	Lymphotoxin alpha (TNF superfamily, member 1)
F04	Hs.376208	NM_002341	LTB	Lymphotoxin beta (TNF superfamily, member 3)
F05	Hs.660766	NM_015364	LY96	Lymphocyte antigen 96
F06	Hs.82116	NM_002468	MYD88	Myeloid differentiation primary response gene (88)
F07	Hs.654408	NM_003998	NFKB1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
F08	Hs.709191	NM_000625	NOS2	Nitric oxide synthase 2, inducible
F09	Hs.122926	NM_000176	NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
F10	Hs.196384	NM_000963	PTGS2	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
F11	Hs.103755	NM_003821	RIPK2	Receptor-interacting serine-threonine kinase 2
F12	Hs.89546	NM_000450	SELE	Selectin E
G01	Hs.537126	NM_001039661	TIRAP	Toll-interleukin 1 receptor (TIR) domain containing adaptor protein
G02	Hs.654532	NM_003263	TLR1	Toll-like receptor 1
G03	Hs.519033	NM_003264	TLR2	Toll-like receptor 2
G04	Hs.657724	NM_003265	TLR3	Toll-like receptor 3
G05	Hs.174312	NM_138554	TLR4	Toll-like receptor 4
G06	Hs.604542	NM_003268	TLR5	Toll-like receptor 5
G07	Hs.662185	NM_006068	TLR6	Toll-like receptor 6
G08	Hs.659215	NM_016562	TLR7	Toll-like receptor 7
G09	Hs.87968	NM_017442	TLR9	Toll-like receptor 9
G10	Hs.241570	NM_000594	TNF	Tumor necrosis factor
G11	Hs.129708	NM_003807	TNFSF14	Tumor necrosis factor (ligand) superfamily, member 14
G12	Hs.368527	NM_019009	TOLLIP	Toll interacting protein
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.

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