

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

Human Chemokines & Receptors

Cat. no. 330231 PAHS-022ZA

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™



Description

The Human Chemokines & Receptors RT² Profiler PCR Array profiles the expression of 84 genes that encode chemokines and their receptors. The array contains members of the C-C and C-X-C motif subfamilies of small inducible cytokines and their receptors as well as other related genes. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to the immune system 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	C5	C5AR1	CCBP2	CCL1	CCL11	CCL13	CCL14	CCL15	CCL16	CCL17	CCL18	CCL19
B	CCL2	CCL20	CCL21	CCL22	CCL23	CCL24	CCL25	CCL26	CCL27	CCL28	CCL3	CCL4
C	CCL5	CCL7	CCL8	CCR1	CCR10	CCR2	CCR3	CCR4	CCR5	CCR6	CCR7	CCR8
D	CCR9	CCRL1	CCRL2	CKLF	CMKLR1	CMTM1	CMTM2	CMTM3	CMTM4	CX3CL1	CX3CR1	CXCL1
E	CXCL10	CXCL11	CXCL12	CXCL13	CXCL14	CXCL16	CXCL2	CXCL3	CXCL5	CXCL6	CXCL9	CXCR1
F	CXCR2	CXCR3	CXCR4	CXCR5	CXCR6	CXCR7	DARC	FPR1	GPR17	HIF1A	IL16	IL1B
G	IL4	IL8	PF4V1	PPBP	SLIT2	TLR2	TLR4	TNF	TYMP	XCL1	XCL2	XCR1
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.494997	NM_001735	C5	Complement component 5
A02	Hs.2161	NM_001736	C5AR1	Complement component 5a receptor 1
A03	Hs.146346	NM_001296	CCBP2	Chemokine binding protein 2
A04	Hs.72918	NM_002981	CCL1	Chemokine (C-C motif) ligand 1
A05	Hs.54460	NM_002986	CCL11	Chemokine (C-C motif) ligand 11
A06	Hs.414629	NM_005408	CCL13	Chemokine (C-C motif) ligand 13
A07	Hs.272493	NM_032963	CCL14	Chemokine (C-C motif) ligand 14
A08	Hs.272493	NM_032965	CCL15	Chemokine (C-C motif) ligand 15
A09	Hs.10458	NM_004590	CCL16	Chemokine (C-C motif) ligand 16
A10	Hs.546294	NM_002987	CCL17	Chemokine (C-C motif) ligand 17
A11	Hs.143961	NM_002988	CCL18	Chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)
A12	Hs.50002	NM_006274	CCL19	Chemokine (C-C motif) ligand 19
B01	Hs.303649	NM_002982	CCL2	Chemokine (C-C motif) ligand 2
B02	Hs.75498	NM_004591	CCL20	Chemokine (C-C motif) ligand 20
B03	Hs.57907	NM_002989	CCL21	Chemokine (C-C motif) ligand 21
B04	Hs.534347	NM_002990	CCL22	Chemokine (C-C motif) ligand 22
B05	Hs.169191	NM_005064	CCL23	Chemokine (C-C motif) ligand 23
B06	Hs.247838	NM_002991	CCL24	Chemokine (C-C motif) ligand 24
B07	Hs.310511	NM_005624	CCL25	Chemokine (C-C motif) ligand 25
B08	Hs.131342	NM_006072	CCL26	Chemokine (C-C motif) ligand 26
B09	Hs.648124	NM_006664	CCL27	Chemokine (C-C motif) ligand 27
B10	Hs.656904	NM_148672	CCL28	Chemokine (C-C motif) ligand 28
B11	Hs.514107	NM_002983	CCL3	Chemokine (C-C motif) ligand 3
B12	Hs.75703	NM_002984	CCL4	Chemokine (C-C motif) ligand 4
C01	Hs.514821	NM_002985	CCL5	Chemokine (C-C motif) ligand 5
C02	Hs.251526	NM_006273	CCL7	Chemokine (C-C motif) ligand 7
C03	Hs.271387	NM_005623	CCL8	Chemokine (C-C motif) ligand 8
C04	Hs.301921	NM_001295	CCR1	Chemokine (C-C motif) receptor 1
C05	Hs.278446	NM_016602	CCR10	Chemokine (C-C motif) receptor 10
C06	Hs.511794	NM_001123396	CCR2	Chemokine (C-C motif) receptor 2
C07	Hs.506190	NM_001837	CCR3	Chemokine (C-C motif) receptor 3
C08	Hs.184926	NM_005508	CCR4	Chemokine (C-C motif) receptor 4
C09	Hs.450802	NM_000579	CCR5	Chemokine (C-C motif) receptor 5
C10	Hs.46468	NM_004367	CCR6	Chemokine (C-C motif) receptor 6
C11	Hs.370036	NM_001838	CCR7	Chemokine (C-C motif) receptor 7
C12	Hs.113222	NM_005201	CCR8	Chemokine (C-C motif) receptor 8
D01	Hs.225946	NM_006641	CCR9	Chemokine (C-C motif) receptor 9
D02	Hs.729361	NM_016557	CCRL1	Chemokine (C-C motif) receptor-like 1
D03	Hs.535713	NM_003965	CCRL2	Chemokine (C-C motif) receptor-like 2
D04	Hs.15159	NM_181641	CKLF	Chemokine-like factor
D05	Hs.197143	NM_004072	CMKLR1	CHEMOKINE-LIKE RECEPTOR 1
D06	Hs.549232	NM_181269	CMTM1	CKLF-like MARVEL transmembrane domain containing 1
D07	Hs.195685	NM_144673	CMTM2	CKLF-like MARVEL transmembrane domain containing 2
D08	Hs.298198	NM_144601	CMTM3	CKLF-like MARVEL transmembrane domain containing 3
D09	Hs.643961	NM_178818	CMTM4	CKLF-like MARVEL transmembrane domain containing 4

Position	UniGene	GenBank	Symbol	Description
D10	Hs.531668	NM_002996	CX3CL1	Chemokine (C-X3-C motif) ligand 1
D11	Hs.78913	NM_001337	CX3CR1	Chemokine (C-X3-C motif) receptor 1
D12	Hs.789	NM_001511	CXCL1	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)
E01	Hs.632586	NM_001565	CXCL10	Chemokine (C-X-C motif) ligand 10
E02	Hs.632592	NM_005409	CXCL11	Chemokine (C-X-C motif) ligand 11
E03	Hs.522891	NM_000609	CXCL12	Chemokine (C-X-C motif) ligand 12
E04	Hs.100431	NM_006419	CXCL13	Chemokine (C-X-C motif) ligand 13
E05	Hs.483444	NM_004887	CXCL14	Chemokine (C-X-C motif) ligand 14
E06	Hs.708201	NM_022059	CXCL16	Chemokine (C-X-C motif) ligand 16
E07	Hs.590921	NM_002089	CXCL2	Chemokine (C-X-C motif) ligand 2
E08	Hs.89690	NM_002090	CXCL3	Chemokine (C-X-C motif) ligand 3
E09	Hs.89714	NM_002994	CXCL5	Chemokine (C-X-C motif) ligand 5
E10	Hs.164021	NM_002993	CXCL6	Chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)
E11	Hs.77367	NM_002416	CXCL9	Chemokine (C-X-C motif) ligand 9
E12	Hs.194778	NM_000634	CXCR1	Chemokine (C-X-C motif) receptor 1
F01	Hs.846	NM_001557	CXCR2	Chemokine (C-X-C motif) receptor 2
F02	Hs.198252	NM_001504	CXCR3	Chemokine (C-X-C motif) receptor 3
F03	Hs.593413	NM_003467	CXCR4	Chemokine (C-X-C motif) receptor 4
F04	Hs.113916	NM_001716	CXCR5	Chemokine (C-X-C motif) receptor 5
F05	Hs.34526	NM_006564	CXCR6	Chemokine (C-X-C motif) receptor 6
F06	Hs.471751	NM_020311	CXCR7	Chemokine (C-X-C motif) receptor 7
F07	Hs.153381	NM_002036	DARC	Duffy blood group, chemokine receptor
F08	Hs.753	NM_002029	FPR1	Formyl peptide receptor 1
F09	Hs.46453	NM_005291	GPR17	G protein-coupled receptor 17
F10	Hs.597216	NM_001530	HIF1A	Hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
F11	Hs.459095	NM_004513	IL16	Interleukin 16
F12	Hs.126256	NM_000576	IL1B	Interleukin 1, beta
G01	Hs.73917	NM_000589	IL4	Interleukin 4
G02	Hs.624	NM_000584	IL8	Interleukin 8
G03	Hs.72933	NM_002620	PF4V1	Platelet factor 4 variant 1
G04	Hs.2164	NM_002704	PPBP	Pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)
G05	Hs.29802	NM_004787	SLIT2	Slit homolog 2 (Drosophila)
G06	Hs.519033	NM_003264	TLR2	Toll-like receptor 2
G07	Hs.174312	NM_138554	TLR4	Toll-like receptor 4
G08	Hs.241570	NM_000594	TNF	Tumor necrosis factor
G09	Hs.592212	NM_001953	TYMP	Thymidine phosphorylase
G10	Hs.546295	NM_002995	XCL1	Chemokine (C motif) ligand 1
G11	Hs.458346	NM_003175	XCL2	Chemokine (C motif) ligand 2
G12	Hs.248116	NM_005283	XCR1	Chemokine (C motif) receptor 1
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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