

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

Mouse Common Cytokines

Cat. no. 330231 PAMM-021ZA

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 Common Cytokines RT² Profiler PCR Array profiles the expression of 84 important cytokine genes. This array includes interferons and interleukins as well as the bone morphogenetic proteins (BMP) and members of the TGF- β family. Also represented are platelet-derived and vascular endothelial growth factors. Tumor necrosis factors are included as well as other cytokine-related genes. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to cytokines 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	Adipoq	Aimp1	Bmp1	Bmp2	Bmp3	Bmp4	Bmp5	Bmp6	Bmp7	Cd40lg	Cd70	Cntf
B	Csf1	Csf2	Csf3	Ctf1	Fasl	Fgf10	Gdf15	Gdf2	Gdf5	Gdf9	Ifna2	Ifna4
C	Ifnb1	Ifng	Il10	Il11	Il12b	Il13	Il15	Il16	Il17a	Il17b	Il17c	Il17f
D	Il18	Il19	Il1a	Il1b	Il1rn	Il2	Il20	Il21	Il23a	Il24	Il25	Il27
E	Il3	Il4	Il5	Il6	Il7	Il9	Inha	Inhba	Lefty1	Lif	Lta	Ltb
F	Mif	Mtn	Nampt	Osm	Scgb3a1	Spp1	Tgfb1	Tgfb2	Thpo	Tnf	Tnfrsf11b	Tnfrsf10
G	Tnfrsf11	Tnfrsf12	Tnfrsf13	Tnfrsf13b	Tnfrsf14	Tnfrsf15	Tnfrsf18	Tnfrsf4	Tnfrsf8	Tnfrsf9	Talna	Vegfa
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.3969	NM_009605	Adipoq	Adiponectin, C1Q and collagen domain containing
A02	Mm.235137	NM_007926	Aimp1	Aminoacyl tRNA synthetase complex-interacting multifunctional protein 1
A03	Mm.27757	NM_009755	Bmp1	Bone morphogenetic protein 1
A04	Mm.103205	NM_007553	Bmp2	Bone morphogenetic protein 2
A05	Mm.209571	NM_173404	Bmp3	Bone morphogenetic protein 3
A06	Mm.6813	NM_007554	Bmp4	Bone morphogenetic protein 4
A07	Mm.428950	NM_007555	Bmp5	Bone morphogenetic protein 5
A08	Mm.385759	NM_007556	Bmp6	Bone morphogenetic protein 6
A09	Mm.595	NM_007557	Bmp7	Bone morphogenetic protein 7
A10	Mm.4861	NM_011616	Cd40lg	CD40 ligand
A11	Mm.42228	NM_011617	Cd70	CD70 antigen
A12	Mm.290924	NM_170786	Cntf	Ciliary neurotrophic factor
B01	Mm.795	NM_007778	Csf1	Colony stimulating factor 1 (macrophage)
B02	Mm.4922	NM_009969	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)
B03	Mm.1238	NM_009971	Csf3	Colony stimulating factor 3 (granulocyte)
B04	Mm.389954	NM_007795	Ctf1	Cardiotrophin 1
B05	Mm.3355	NM_010177	Fasl	Fas ligand (TNF superfamily, member 6)
B06	Mm.317323	NM_008002	Fgf10	Fibroblast growth factor 10
B07	Mm.31325	NM_011819	Gdf15	Growth differentiation factor 15
B08	Mm.422844	NM_019506	Gdf2	Growth differentiation factor 2
B09	Mm.4744	NM_008109	Gdf5	Growth differentiation factor 5
B10	Mm.9714	NM_008110	Gdf9	Growth differentiation factor 9
B11	Mm.14091	NM_010503	Ifna2	Interferon alpha 2
B12	Mm.377088	NM_010504	Ifna4	Interferon alpha 4
C01	Mm.1245	NM_010510	Ifnb1	Interferon beta 1, fibroblast
C02	Mm.240327	NM_008337	Ifng	Interferon gamma
C03	Mm.874	NM_010548	Il10	Interleukin 10
C04	Mm.35814	NM_008350	Il11	Interleukin 11
C05	Mm.239707	NM_008352	Il12b	Interleukin 12B
C06	Mm.1284	NM_008355	Il13	Interleukin 13
C07	Mm.4392	NM_008357	Il15	Interleukin 15
C08	Mm.10137	NM_010551	Il16	Interleukin 16
C09	Mm.5419	NM_010552	Il17a	Interleukin 17A
C10	Mm.59313	NM_019508	Il17b	Interleukin 17B
C11	Mm.222808	NM_145834	Il17c	Interleukin 17C
C12	Mm.222807	NM_145856	Il17f	Interleukin 17F
D01	Mm.1410	NM_008360	Il18	Interleukin 18
D02	Mm.131480	NM_001009940	Il19	Interleukin 19
D03	Mm.15534	NM_010554	Il1a	Interleukin 1 alpha
D04	Mm.222830	NM_008361	Il1b	Interleukin 1 beta
D05	Mm.882	NM_031167	Il1rn	Interleukin 1 receptor antagonist
D06	Mm.14190	NM_008366	Il2	Interleukin 2
D07	Mm.103794	NM_021380	Il20	Interleukin 20
D08	Mm.157689	NM_021782	Il21	Interleukin 21
D09	Mm.125482	NM_031252	Il23a	Interleukin 23, alpha subunit p19

Position	UniGene	GenBank	Symbol	Description
D10	Mm.196691	NM_053095	Il24	Interleukin 24
D11	Mm.90154	NM_080729	Il25	Interleukin 25
D12	Mm.222632	NM_145636	Il27	Interleukin 27
E01	Mm.983	NM_010556	Il3	Interleukin 3
E02	Mm.276360	NM_021283	Il4	Interleukin 4
E03	Mm.4461	NM_010558	Il5	Interleukin 5
E04	Mm.1019	NM_031168	Il6	Interleukin 6
E05	Mm.3825	NM_008371	Il7	Interleukin 7
E06	Mm.3006	NM_008373	Il9	Interleukin 9
E07	Mm.1100	NM_010564	Inha	Inhibin alpha
E08	Mm.8042	NM_008380	Inhba	Inhibin beta-A
E09	Mm.378911	NM_010094	Lefty1	Left right determination factor 1
E10	Mm.4964	NM_008501	Lif	Leukemia inhibitory factor
E11	Mm.87787	NM_010735	Lta	Lymphotoxin A
E12	Mm.1715	NM_008518	Ltb	Lymphotoxin B
F01	Mm.2326	NM_010798	Mif	Macrophage migration inhibitory factor
F02	Mm.3514	NM_010834	Mstn	Myostatin
F03	Mm.202727	NM_021524	Nampt	Nicotinamide phosphoribosyltransferase
F04	Mm.131422	NM_001013365	Osm	Oncostatin M
F05	Mm.22802	NM_170727	Scgb3a1	Secretoglobin, family 3A, member 1
F06	Mm.288474	NM_009263	Spp1	Secreted phosphoprotein 1
F07	Mm.248380	NM_011577	Tgfb1	Transforming growth factor, beta 1
F08	Mm.18213	NM_009367	Tgfb2	Transforming growth factor, beta 2
F09	Mm.3943	NM_009379	Thpo	Thrombopoietin
F10	Mm.1293	NM_013693	Tnf	Tumor necrosis factor
F11	Mm.15383	NM_008764	Tnfrsf11b	Tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)
F12	Mm.1062	NM_009425	Tnfsf10	Tumor necrosis factor (ligand) superfamily, member 10
G01	Mm.249221	NM_011613	Tnfsf11	Tumor necrosis factor (ligand) superfamily, member 11
G02	Mm.344820	NM_011614	Tnfsf12	Tumor necrosis factor (ligand) superfamily, member 12
G03	Mm.8983	NM_023517	Tnfsf13	Tumor necrosis factor (ligand) superfamily, member 13
G04	Mm.28835	NM_033622	Tnfsf13b	Tumor necrosis factor (ligand) superfamily, member 13b
G05	Mm.483369	NM_019418	Tnfsf14	Tumor necrosis factor (ligand) superfamily, member 14
G06	Mm.208152	NM_177371	Tnfsf15	Tumor necrosis factor (ligand) superfamily, member 15
G07	Mm.276823	NM_183391	Tnfsf18	Tumor necrosis factor (ligand) superfamily, member 18
G08	Mm.4994	NM_009452	Tnfsf4	Tumor necrosis factor (ligand) superfamily, member 4
G09	Mm.4664	NM_009403	Tnfsf8	Tumor necrosis factor (ligand) superfamily, member 8
G10	Mm.41171	NM_009404	Tnfsf9	Tumor necrosis factor (ligand) superfamily, member 9
G11	Mm.268863	NM_001005506	Txlna	Taxilin alpha
G12	Mm.282184	NM_009505	Vegfa	Vascular endothelial growth factor A
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	N/A	SA_00106	MGDC	Mouse 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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