

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

Mouse Inflammatory Response & Autoimmunity

Cat. no. 330231 PAMM-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 Mouse 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	C4b	Ccl1	Ccl11	Ccl12	Ccl17	Ccl19	Ccl2	Ccl20	Ccl22
B	Ccl24	Ccl25	Ccl3	Ccl4	Ccl5	Ccl7	Ccl8	Ccr1	Ccr2	Ccr3	Ccr4	Ccr7
C	Ccl14	Ccl40	Ccl40lg	Cebpb	Crp	Csf1	Cxcl1	Cxcl10	Cxcl11	Cxcl2	Cxcl3	Cxcl5
D	Cxcl9	Cxcr1	Cxcr2	Cxcr4	Fasl	Fos	Ifng	Il10	Il10rb	Il17a	Il18	Il1a
E	Il1b	Il1r1	Il1rap	Il1rn	Il22	Il23a	Il23r	Il5	Il6	Il6ra	Il7	Il9
F	Il6b2	King1	Lta	Ltb	Ly96	Myd88	Nfk1	Nos2	Nr3c1	Ptgs2	Ripk2	Sele
G	Tirap	Tlr1	Tlr2	Tlr3	Tlr4	Tlr5	Tlr6	Tlr7	Tlr9	Tnf	Tnfsf14	Tollip
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.347398	NM_009744	Bcl6	B-cell leukemia/lymphoma 6
A02	Mm.19131	NM_009778	C3	Complement component 3
A03	Mm.2408	NM_009779	C3ar1	Complement component 3a receptor 1
A04	Mm.477109	NM_009780	C4b	Complement component 4B (Chido blood group)
A05	Mm.1283	NM_011329	Ccl1	Chemokine (C-C motif) ligand 1
A06	Mm.4686	NM_011330	Ccl11	Chemokine (C-C motif) ligand 11
A07	Mm.867	NM_011331	Ccl12	Chemokine (C-C motif) ligand 12
A08	Mm.41988	NM_011332	Ccl17	Chemokine (C-C motif) ligand 17
A09	Mm.424740	NM_011888	Ccl19	Chemokine (C-C motif) ligand 19
A10	Mm.290320	NM_011333	Ccl2	Chemokine (C-C motif) ligand 2
A11	Mm.116739	NM_016960	Ccl20	Chemokine (C-C motif) ligand 20
A12	Mm.12895	NM_009137	Ccl22	Chemokine (C-C motif) ligand 22
B01	Mm.31505	NM_019577	Ccl24	Chemokine (C-C motif) ligand 24
B02	Mm.7275	NM_009138	Ccl25	Chemokine (C-C motif) ligand 25
B03	Mm.1282	NM_011337	Ccl3	Chemokine (C-C motif) ligand 3
B04	Mm.244263	NM_013652	Ccl4	Chemokine (C-C motif) ligand 4
B05	Mm.284248	NM_013653	Ccl5	Chemokine (C-C motif) ligand 5
B06	Mm.341574	NM_013654	Ccl7	Chemokine (C-C motif) ligand 7
B07	Mm.42029	NM_021443	Ccl8	Chemokine (C-C motif) ligand 8
B08	Mm.274927	NM_009912	Ccr1	Chemokine (C-C motif) receptor 1
B09	Mm.6272	NM_009915	Ccr2	Chemokine (C-C motif) receptor 2
B10	Mm.57050	NM_009914	Ccr3	Chemokine (C-C motif) receptor 3
B11	Mm.1337	NM_009916	Ccr4	Chemokine (C-C motif) receptor 4
B12	Mm.2932	NM_007719	Ccr7	Chemokine (C-C motif) receptor 7
C01	Mm.3460	NM_009841	Cd14	CD14 antigen
C02	Mm.271833	NM_011611	Cd40	CD40 antigen
C03	Mm.4861	NM_011616	Cd40lg	CD40 ligand
C04	Mm.439656	NM_009883	Cebpb	CCAAT/enhancer binding protein (C/EBP), beta
C05	Mm.28767	NM_007768	Crp	C-reactive protein, pentraxin-related
C06	Mm.795	NM_007778	Csf1	Colony stimulating factor 1 (macrophage)
C07	Mm.21013	NM_008176	Cxcl1	Chemokine (C-X-C motif) ligand 1
C08	Mm.877	NM_021274	Cxcl10	Chemokine (C-X-C motif) ligand 10
C09	Mm.131723	NM_019494	Cxcl11	Chemokine (C-X-C motif) ligand 11
C10	Mm.4979	NM_009140	Cxcl2	Chemokine (C-X-C motif) ligand 2
C11	Mm.244289	NM_203320	Cxcl3	Chemokine (C-X-C motif) ligand 3
C12	Mm.4660	NM_009141	Cxcl5	Chemokine (C-X-C motif) ligand 5
D01	Mm.766	NM_008599	Cxcl9	Chemokine (C-X-C motif) ligand 9
D02	Mm.337035	NM_178241	Cxcr1	Chemokine (C-X-C motif) receptor 1
D03	Mm.234466	NM_009909	Cxcr2	Chemokine (C-X-C motif) receptor 2
D04	Mm.1401	NM_009911	Cxcr4	Chemokine (C-X-C motif) receptor 4
D05	Mm.3355	NM_010177	Fasl	Fas ligand (TNF superfamily, member 6)
D06	Mm.246513	NM_010234	Fos	FBJ osteosarcoma oncogene
D07	Mm.240327	NM_008337	Ifng	Interferon gamma
D08	Mm.874	NM_010548	Il10	Interleukin 10
D09	Mm.4154	NM_008349	Il10rb	Interleukin 10 receptor, beta

Position	UniGene	GenBank	Symbol	Description
D10	Mm.5419	NM_010552	Il17a	Interleukin 17A
D11	Mm.1410	NM_008360	Il18	Interleukin 18
D12	Mm.15534	NM_010554	Il1a	Interleukin 1 alpha
E01	Mm.222830	NM_008361	Il1b	Interleukin 1 beta
E02	Mm.896	NM_008362	Il1r1	Interleukin 1 receptor, type I
E03	Mm.253424	NM_008364	Il1rap	Interleukin 1 receptor accessory protein
E04	Mm.882	NM_031167	Il1rn	Interleukin 1 receptor antagonist
E05	Mm.103585	NM_016971	Il22	Interleukin 22
E06	Mm.125482	NM_031252	Il23a	Interleukin 23, alpha subunit p19
E07	Mm.221227	NM_144548	Il23r	Interleukin 23 receptor
E08	Mm.4461	NM_010558	Il5	Interleukin 5
E09	Mm.1019	NM_031168	Il6	Interleukin 6
E10	Mm.2856	NM_010559	Il6ra	Interleukin 6 receptor, alpha
E11	Mm.3825	NM_008371	Il7	Interleukin 7
E12	Mm.3006	NM_008373	Il9	Interleukin 9
F01	Mm.1137	NM_008404	Itgb2	Integrin beta 2
F02	Mm.2160	NM_023125	Kng1	Kininogen 1
F03	Mm.87787	NM_010735	Lta	Lymphotoxin A
F04	Mm.1715	NM_008518	Ltb	Lymphotoxin B
F05	Mm.116844	NM_016923	Ly96	Lymphocyte antigen 96
F06	Mm.213003	NM_010851	Myd88	Myeloid differentiation primary response gene 88
F07	Mm.256765	NM_008689	Nfkb1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1, p105
F08	Mm.2893	NM_010927	Nos2	Nitric oxide synthase 2, inducible
F09	Mm.129481	NM_008173	Nr3c1	Nuclear receptor subfamily 3, group C, member 1
F10	Mm.292547	NM_011198	Ptgs2	Prostaglandin-endoperoxide synthase 2
F11	Mm.112765	NM_138952	Ripk2	Receptor (TNFRSF)-interacting serine-threonine kinase 2
F12	Mm.5245	NM_011345	Sele	Selectin, endothelial cell
G01	Mm.23987	NM_054096	Tirap	Toll-interleukin 1 receptor (TIR) domain-containing adaptor protein
G02	Mm.273024	NM_030682	Tlr1	Toll-like receptor 1
G03	Mm.87596	NM_011905	Tlr2	Toll-like receptor 2
G04	Mm.33874	NM_126166	Tlr3	Toll-like receptor 3
G05	Mm.38049	NM_021297	Tlr4	Toll-like receptor 4
G06	Mm.116894	NM_016928	Tlr5	Toll-like receptor 5
G07	Mm.42146	NM_011604	Tlr6	Toll-like receptor 6
G08	Mm.23979	NM_133211	Tlr7	Toll-like receptor 7
G09	Mm.44889	NM_031178	Tlr9	Toll-like receptor 9
G10	Mm.1293	NM_013693	Tnf	Tumor necrosis factor
G11	Mm.483369	NM_019418	Tnfsf14	Tumor necrosis factor (ligand) superfamily, member 14
G12	Mm.103551	NM_023764	Tollip	Toll interacting protein
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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