

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

Mouse Dendritic & Antigen Presenting Cell

Cat. no. 330231 PAMM-406ZA

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 Dendritic and Antigen Presenting Cell RT² Profiler PCR Array profiles the expression of 84 genes focused on dendritic cell activation and maturation. Genes important for dendritic cell activation and maturation such as cytokines, chemokines and their receptors are included on this array along with other related cell surface receptors and signal transduction molecules. Genes involved in antigen uptake, processing, and presentation are also represented on this array. In addition to being functionally defined, many of these genes on the array are highly expressed in mature dendritic cells or show significant changes in expression during cell differentiation. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to dendritic and antigen presenting cells 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	Ccl11	Ccl12	Ccl17	Ccl19	Ccl2	Ccl20	Cd3	Ccl4	Ccl5	Ccl7	Ccl8	Ccr1
B	Ccr2	Ccr3	Ccr5	Ccr9	Cd1d1	Cd1d2	Cd2	Cd209a	Cd28	Cd33	Cd36	Cd4
C	Cd40	Cd40lg	Cd44	Cd74	Cd80	Cd86	Cd8a	Cdc42	Cdkn1a	Cebpa	Clec4b2	Csf1r
D	Csf2	Cxcl1	Cxcl10	Cxcl12	Cxcl2	Cxcr1	Cxcr4	ErbB2	Fas	Fcer1a	Fcer2a	Fcgr1
E	Fcgr1	Flt3	Flt3l	H2-DMA	Icam1	Icam2	Ifng	Il10	Il12a	Il12b	Il16	Il2
F	Il6	Ilf7	Itgam	Itgb2	Lrp1	Lyn	Mif	Nfkb1	Ptprc	Rac1	Rag1	Rela
G	Relb	Stat3	Tap2	Tapbp	Tgfb1	Thbs1	Tlr1	Tlr2	Tlr7	Tlr9	Tnf	Tnfrsf11
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.4686	NM_011330	Ccl11	Chemokine (C-C motif) ligand 11
A02	Mm.867	NM_011331	Ccl12	Chemokine (C-C motif) ligand 12
A03	Mm.41988	NM_011332	Ccl17	Chemokine (C-C motif) ligand 17
A04	Mm.424740	NM_011888	Ccl19	Chemokine (C-C motif) ligand 19
A05	Mm.290320	NM_011333	Ccl2	Chemokine (C-C motif) ligand 2
A06	Mm.116739	NM_016960	Ccl20	Chemokine (C-C motif) ligand 20
A07	Mm.1282	NM_011337	Ccl3	Chemokine (C-C motif) ligand 3
A08	Mm.244263	NM_013652	Ccl4	Chemokine (C-C motif) ligand 4
A09	Mm.284248	NM_013653	Ccl5	Chemokine (C-C motif) ligand 5
A10	Mm.341574	NM_013654	Ccl7	Chemokine (C-C motif) ligand 7
A11	Mm.42029	NM_021443	Ccl8	Chemokine (C-C motif) ligand 8
A12	Mm.274927	NM_009912	Ccr1	Chemokine (C-C motif) receptor 1
B01	Mm.6272	NM_009915	Ccr2	Chemokine (C-C motif) receptor 2
B02	Mm.57050	NM_009914	Ccr3	Chemokine (C-C motif) receptor 3
B03	Mm.14302	NM_009917	Ccr5	Chemokine (C-C motif) receptor 5
B04	Mm.440604	NM_009913	Ccr9	Chemokine (C-C motif) receptor 9
B05	Mm.1894	NM_007639	Cd1d1	CD1d1 antigen
B06	Mm.389465	NM_007640	Cd1d2	CD1d2 antigen
B07	Mm.22842	NM_013486	Cd2	CD2 antigen
B08	Mm.32510	NM_133238	Cd209a	CD209a antigen
B09	Mm.255003	NM_007642	Cd28	CD28 antigen
B10	Mm.140157	NM_021293	Cd33	CD33 antigen
B11	Mm.18628	NM_007643	Cd36	CD36 antigen
B12	Mm.2209	NM_013488	Cd4	CD4 antigen
C01	Mm.271833	NM_011611	Cd40	CD40 antigen
C02	Mm.4861	NM_011616	Cd40lg	CD40 ligand
C03	Mm.423621	NM_009851	Cd44	CD44 antigen
C04	Mm.439737	NM_010545	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
C05	Mm.89474	NM_009855	Cd80	CD80 antigen
C06	Mm.1452	NM_019388	Cd86	CD86 antigen
C07	Mm.1858	NM_001081110	Cd8a	CD8 antigen, alpha chain
C08	Mm.1022	NM_009861	Cdc42	Cell division cycle 42 homolog (S. cerevisiae)
C09	Mm.195663	NM_007669	Cdkn1a	Cyclin-dependent kinase inhibitor 1A (P21)
C10	Mm.349667	NM_007678	Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha
C11	Mm.333372	NM_001004159	Clec4b2	C-type lectin domain family 4, member b2
C12	Mm.22574	NM_001037859	Csf1r	Colony stimulating factor 1 receptor
D01	Mm.4922	NM_009969	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)
D02	Mm.21013	NM_008176	Cxcl1	Chemokine (C-X-C motif) ligand 1
D03	Mm.877	NM_021274	Cxcl10	Chemokine (C-X-C motif) ligand 10
D04	Mm.303231	NM_021704	Cxcl12	Chemokine (C-X-C motif) ligand 12
D05	Mm.4979	NM_009140	Cxcl2	Chemokine (C-X-C motif) ligand 2
D06	Mm.337035	NM_178241	Cxcr1	Chemokine (C-X-C motif) receptor 1
D07	Mm.1401	NM_009911	Cxcr4	Chemokine (C-X-C motif) receptor 4
				V-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma

Position	UniGene	GenBank	Symbol	Description
D08	Mm.290822	NM_001003817	ErbB2	derived oncogene homolog (avian)
D09	Mm.1626	NM_007987	Fas	Fas (TNF receptor superfamily member 6)
D10	Mm.5266	NM_010184	Fcεr1a	Fc receptor, IgE, high affinity I, alpha polypeptide
D11	Mm.1233	NM_013517	Fcεr2a	Fc receptor, IgE, low affinity II, alpha polypeptide
D12	Mm.150	NM_010186	Fcγr1	Fc receptor, IgG, high affinity I
E01	Mm.3303	NM_010189	Fcγr3	Fc receptor, IgG, alpha chain transporter
E02	Mm.194	NM_010229	Flt3	FMS-like tyrosine kinase 3
E03	Mm.1658	NM_013520	Flt3l	FMS-like tyrosine kinase 3 ligand
E04	Mm.16373	NM_010386	H2-DMA	Histocompatibility 2, class II, locus DMA
E05	Mm.435508	NM_010493	Icam1	Intercellular adhesion molecule 1
E06	Mm.394	NM_010494	Icam2	Intercellular adhesion molecule 2
E07	Mm.240327	NM_008337	Ifng	Interferon gamma
E08	Mm.874	NM_010548	Il10	Interleukin 10
E09	Mm.103783	NM_008351	Il12a	Interleukin 12A
E10	Mm.239707	NM_008352	Il12b	Interleukin 12B
E11	Mm.10137	NM_010551	Il16	Interleukin 16
E12	Mm.14190	NM_008366	Il2	Interleukin 2
F01	Mm.1019	NM_031168	Il6	Interleukin 6
F02	Mm.3233	NM_016850	Irf7	Interferon regulatory factor 7
F03	Mm.262106	NM_008401	Itgam	Integrin alpha M
F04	Mm.1137	NM_008404	Itgb2	Integrin beta 2
F05	Mm.271854	NM_008512	Lrp1	Low density lipoprotein receptor-related protein 1
F06	Mm.317331	NM_010747	Lyn	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog
F07	Mm.2326	NM_010798	Mif	Macrophage migration inhibitory factor
F08	Mm.256765	NM_008689	Nfkb1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1, p105
F09	Mm.391573	NM_011210	Ptprc	Protein tyrosine phosphatase, receptor type, C
F10	Mm.292510	NM_009007	Rac1	RAS-related C3 botulinum substrate 1
F11	Mm.828	NM_009019	Rag1	Recombination activating gene 1
F12	Mm.249966	NM_009045	Rela	V-rel reticuloendotheliosis viral oncogene homolog A (avian)
G01	Mm.1741	NM_009046	Relb	Avian reticuloendotheliosis viral (v-rel) oncogene related B
G02	Mm.249934	NM_011486	Stat3	Signal transducer and activator of transcription 3
G03	Mm.14814	NM_011530	Tap2	Transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
G04	Mm.154457	NM_009318	Tapbp	TAP binding protein
G05	Mm.248380	NM_011577	Tgfb1	Transforming growth factor, beta 1
G06	Mm.4159	NM_011580	Thbs1	Thrombospondin 1
G07	Mm.273024	NM_030682	Tlr1	Toll-like receptor 1
G08	Mm.87596	NM_011905	Tlr2	Toll-like receptor 2
G09	Mm.23979	NM_133211	Tlr7	Toll-like receptor 7
G10	Mm.44889	NM_031178	Tlr9	Toll-like receptor 9
G11	Mm.1293	NM_013693	Tnf	Tumor necrosis factor
G12	Mm.249221	NM_011613	Tnfsf11	Tumor necrosis factor (ligand) superfamily, member 11
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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