

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

Mouse Chemokines & Receptors

Cat. no. 330231 PAMM-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™



Sample & Assay Technologies

Description

The Mouse 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	C5ar1	Ccbp2	Ccl1	Ccl11	Ccl12	Ccl17	Ccl19	Ccl2	Ccl20	Ccl22	Ccl24	Ccl25
B	Ccl26	Ccl28	Ccl3	Ccl4	Ccl5	Ccl6	Ccl7	Ccl8	Ccl9	Ccr1	Ccr10	Ccr11
C	Ccr2	Ccr3	Ccr4	Ccr5	Ccr6	Ccr7	Ccr8	Ccr9	Ccr11	Ccr12	Cmklr1	Cmtm2a
D	Cmtm3	Cmtm4	Cmtm5	Cmtm6	Cx3cl1	Cx3cr1	Cxcl1	Cxcl10	Cxcl11	Cxcl12	Cxcl13	Cxcl14
E	Cxcl15	Cxcl16	Cxcl2	Cxcl3	Cxcl5	Cxcl9	Cxcr1	Cxcr2	Cxcr3	Cxcr4	Cxcr5	Cxcr6
F	Cxcr7	Darc	Fpr1	Gpr17	Hif1a	Ifng	Il1b	Il1b	Il4	Il6	Ilgam	Ilgb2
G	Mapk1	Mapk14	Pf4	Ppibp	Sli12	Tgfb1	Tlr2	Tlr4	Tnf	Tymp	Xcl1	Xcr1
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.247623	NM_007577	C5ar1	Complement component 5a receptor 1
A02	Mm.258105	NM_021609	Ccbp2	Chemokine binding protein 2
A03	Mm.1283	NM_011329	Ccl1	Chemokine (C-C motif) ligand 1
A04	Mm.4686	NM_011330	Ccl11	Chemokine (C-C motif) ligand 11
A05	Mm.867	NM_011331	Ccl12	Chemokine (C-C motif) ligand 12
A06	Mm.41988	NM_011332	Ccl17	Chemokine (C-C motif) ligand 17
A07	Mm.424740	NM_011888	Ccl19	Chemokine (C-C motif) ligand 19
A08	Mm.290320	NM_011333	Ccl2	Chemokine (C-C motif) ligand 2
A09	Mm.116739	NM_016960	Ccl20	Chemokine (C-C motif) ligand 20
A10	Mm.12895	NM_009137	Ccl22	Chemokine (C-C motif) ligand 22
A11	Mm.31505	NM_019577	Ccl24	Chemokine (C-C motif) ligand 24
A12	Mm.7275	NM_009138	Ccl25	Chemokine (C-C motif) ligand 25
B01	Mm.376459	NM_001013412	Ccl26	Chemokine (C-C motif) ligand 26
B02	Mm.143745	NM_020279	Ccl28	Chemokine (C-C motif) ligand 28
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.137	NM_009139	Ccl6	Chemokine (C-C motif) ligand 6
B07	Mm.341574	NM_013654	Ccl7	Chemokine (C-C motif) ligand 7
B08	Mm.42029	NM_021443	Ccl8	Chemokine (C-C motif) ligand 8
B09	Mm.416125	NM_011338	Ccl9	Chemokine (C-C motif) ligand 9
B10	Mm.274927	NM_009912	Ccr1	Chemokine (C-C motif) receptor 1
B11	Mm.8021	NM_007721	Ccr10	Chemokine (C-C motif) receptor 10
B12	Mm.423532	NM_007718	Ccr11	Chemokine (C-C motif) receptor 1-like 1
C01	Mm.6272	NM_009915	Ccr2	Chemokine (C-C motif) receptor 2
C02	Mm.57050	NM_009914	Ccr3	Chemokine (C-C motif) receptor 3
C03	Mm.1337	NM_009916	Ccr4	Chemokine (C-C motif) receptor 4
C04	Mm.14302	NM_009917	Ccr5	Chemokine (C-C motif) receptor 5
C05	Mm.8007	NM_009835	Ccr6	Chemokine (C-C motif) receptor 6
C06	Mm.2932	NM_007719	Ccr7	Chemokine (C-C motif) receptor 7
C07	Mm.442098	NM_007720	Ccr8	Chemokine (C-C motif) receptor 8
C08	Mm.440604	NM_009913	Ccr9	Chemokine (C-C motif) receptor 9
C09	Mm.269254	NM_145700	Ccr11	Chemokine (C-C motif) receptor-like 1
C10	Mm.7336	NM_017466	Ccr12	Chemokine (C-C motif) receptor-like 2
C11	Mm.5196	NM_008153	Cmklr1	Chemokine-like receptor 1
C12	Mm.272746	NM_027022	Cmtm2a	CKLF-like MARVEL transmembrane domain containing 2A
D01	Mm.390108	NM_024217	Cmtm3	CKLF-like MARVEL transmembrane domain containing 3
D02	Mm.383258	NM_153582	Cmtm4	CKLF-like MARVEL transmembrane domain containing 4
D03	Mm.41614	NM_026066	Cmtm5	CKLF-like MARVEL transmembrane domain containing 5
D04	Mm.28858	NM_026036	Cmtm6	CKLF-like MARVEL transmembrane domain containing 6
D05	Mm.103711	NM_009142	Cx3cl1	Chemokine (C-X3-C motif) ligand 1
D06	Mm.44065	NM_009987	Cx3cr1	Chemokine (C-X3-C) receptor 1
D07	Mm.21013	NM_008176	Cxcl1	Chemokine (C-X-C motif) ligand 1
D08	Mm.877	NM_021274	Cxcl10	Chemokine (C-X-C motif) ligand 10
D09	Mm.131723	NM_019494	Cxcl11	Chemokine (C-X-C motif) ligand 11

Position	UniGene	GenBank	Symbol	Description
D10	Mm.303231	NM_021704	Cxcl12	Chemokine (C-X-C motif) ligand 12
D11	Mm.10116	NM_018866	Cxcl13	Chemokine (C-X-C motif) ligand 13
D12	Mm.30211	NM_019568	Cxcl14	Chemokine (C-X-C motif) ligand 14
E01	Mm.64326	NM_011339	Cxcl15	Chemokine (C-X-C motif) ligand 15
E02	Mm.425692	NM_023158	Cxcl16	Chemokine (C-X-C motif) ligand 16
E03	Mm.4979	NM_009140	Cxcl2	Chemokine (C-X-C motif) ligand 2
E04	Mm.244289	NM_203320	Cxcl3	Chemokine (C-X-C motif) ligand 3
E05	Mm.4660	NM_009141	Cxcl5	Chemokine (C-X-C motif) ligand 5
E06	Mm.766	NM_008599	Cxcl9	Chemokine (C-X-C motif) ligand 9
E07	Mm.337035	NM_178241	Cxcr1	Chemokine (C-X-C motif) receptor 1
E08	Mm.234466	NM_009909	Cxcr2	Chemokine (C-X-C motif) receptor 2
E09	Mm.12876	NM_009910	Cxcr3	Chemokine (C-X-C motif) receptor 3
E10	Mm.1401	NM_009911	Cxcr4	Chemokine (C-X-C motif) receptor 4
E11	Mm.6246	NM_007551	Cxcr5	Chemokine (C-X-C motif) receptor 5
E12	Mm.124289	NM_030712	Cxcr6	Chemokine (C-X-C motif) receptor 6
F01	Mm.6522	NM_007722	Cxcr7	Chemokine (C-X-C motif) receptor 7
F02	Mm.6393	NM_010045	Darc	Duffy blood group, chemokine receptor
F03	Mm.56951	NM_013521	Fpr1	Formyl peptide receptor 1
F04	Mm.391108	NM_001025381	Gpr17	G protein-coupled receptor 17
F05	Mm.3879	NM_010431	Hif1a	Hypoxia inducible factor 1, alpha subunit
F06	Mm.240327	NM_008337	Ifng	Interferon gamma
F07	Mm.10137	NM_010551	Il16	Interleukin 16
F08	Mm.222830	NM_008361	Il1b	Interleukin 1 beta
F09	Mm.276360	NM_021283	Il4	Interleukin 4
F10	Mm.1019	NM_031168	Il6	Interleukin 6
F11	Mm.262106	NM_008401	Itgam	Integrin alpha M
F12	Mm.1137	NM_008404	Itgb2	Integrin beta 2
G01	Mm.196581	NM_011949	Mapk1	Mitogen-activated protein kinase 1
G02	Mm.311337	NM_011951	Mapk14	Mitogen-activated protein kinase 14
G03	Mm.332490	NM_019932	Pf4	Platelet factor 4
G04	Mm.293614	NM_023785	Ppbp	Pro-platelet basic protein
G05	Mm.289739	NM_178804	Slit2	Slit homolog 2 (Drosophila)
G06	Mm.248380	NM_011577	Tgfb1	Transforming growth factor, beta 1
G07	Mm.87596	NM_011905	Tlr2	Toll-like receptor 2
G08	Mm.38049	NM_021297	Tlr4	Toll-like receptor 4
G09	Mm.1293	NM_013693	Tnf	Tumor necrosis factor
G10	Mm.287977	NM_138302	Tymp	Thymidine phosphorylase
G11	Mm.190	NM_008510	Xcl1	Chemokine (C motif) ligand 1
G12	Mm.390241	NM_011798	Xcr1	Chemokine (C motif) receptor 1
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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