

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

Mouse Interferons & Receptors

Cat. no. 330231 PAMM-064ZA

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 Interferons & Receptors RT² Profiler PCR Array profiles the expression of 84 genes whose expression is controlled by or involved in cell signaling mediated by interferon ligands and receptors. Four major groups of genes are included on this PCR array: interferons (IFN ligands), interferon receptors, interferon regulatory genes and interferon-inducible genes. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to IFN signaling 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	Adar	Crf2	Csf2	Csf3	Csf3r	Cf2	Cxcl10	Ebi3	Epor	F3	Ghr	Ifi204
B	Ifi2711	Ifi2712a	Ifi30	Ifi35	Ifi44	Ifih1	Ifi1	Ifi2	Ifi3	Ifitm1	Ifitm2	Ifna11
C	Ifna12	Ifna14	Ifna2	Ifna4	Ifna9	Ifnab	Ifnar1	Ifnar2	Ifnb1	Ifne	Ifng	Ifngr1
D	Ifngr2	Ifnk	Ifnz	Il10rb	Il12b	Il12rb1	Il12rb2	Il13	Il13ra1	Il15	Il20ra	Il21
E	Il21r	Il22ra2	Il28b	Il28ra	Il2rb	Il2rg	Il3ra	Il4	Il4ra	Il6	Il6ra	Il6st
F	Il7	Il7r	Il9	Il9r	Ir1f1	Ir1f2	Ir1f2bp1	Ir1f3	Ir1f4	Ir1f5	Ir1f6	Ir1f7
G	Ir1f8	Irgm1	Isg15	Lepr	Lif	Lifr	Mpl	Mx1	Oas1a	Osm	Osmr	Prlr
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.316628	NM_019655	Adar	Adenosine deaminase, RNA-specific
A02	Mm.35771	NM_016715	Crf2	Cytokine receptor-like factor 2
A03	Mm.4922	NM_009969	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)
A04	Mm.1238	NM_009971	Csf3	Colony stimulating factor 3 (granulocyte)
A05	Mm.271701	NM_007782	Csf3r	Colony stimulating factor 3 receptor (granulocyte)
A06	Mm.249829	NM_198858	Cf2	Cardiotrophin 2
A07	Mm.877	NM_021274	Cxcl10	Chemokine (C-X-C motif) ligand 10
A08	Mm.256798	NM_015766	Ebi3	Epstein-Barr virus induced gene 3
A09	Mm.2653	NM_010149	Epor	Erythropoietin receptor
A10	Mm.273188	NM_010171	F3	Coagulation factor III
A11	Mm.3986	NM_010284	Ghr	Growth hormone receptor
A12	Mm.442561	NM_008329	Ifi204	Interferon activated gene 204
B01	Mm.2121	NM_194069	Ifi2711	Interferon, alpha-inducible protein 27 like 1
B02	Mm.271275	NM_029803	Ifi2712a	Interferon, alpha-inducible protein 27 like 2A
B03	Mm.30241	NM_023065	Ifi30	Interferon gamma inducible protein 30
B04	Mm.45558	NM_027320	Ifi35	Interferon-induced protein 35
B05	Mm.30756	NM_133871	Ifi44	Interferon-induced protein 44
B06	Mm.136224	NM_027835	Ifih1	Interferon induced with helicase C domain 1
B07	Mm.439751	NM_008331	Ifi1	Interferon-induced protein with tetratricopeptide repeats 1
B08	Mm.2036	NM_008332	Ifi2	Interferon-induced protein with tetratricopeptide repeats 2
B09	Mm.426079	NM_010501	Ifi3	Interferon-induced protein with tetratricopeptide repeats 3
B10	Mm.175661	NM_026820	Ifitm1	Interferon induced transmembrane protein 1
B11	Mm.379266	NM_030694	Ifitm2	Interferon induced transmembrane protein 2
B12	Mm.377087	NM_008333	Ifna11	Interferon alpha 11
C01	Mm.246618	NM_177361	Ifna12	Interferon alpha 12
C02	Mm.377947	NM_206975	Ifna14	Interferon, alpha 14
C03	Mm.14091	NM_010503	Ifna2	Interferon alpha 2
C04	Mm.377088	NM_010504	Ifna4	Interferon alpha 4
C05	Mm.377092	NM_010507	Ifna9	Interferon alpha 9
C06	Mm.377093	NM_008336	Ifnab	Interferon alpha B
C07	Mm.502	NM_010508	Ifnar1	Interferon (alpha and beta) receptor 1
C08	Mm.6834	NM_010509	Ifnar2	Interferon (alpha and beta) receptor 2
C09	Mm.1245	NM_010510	Ifnb1	Interferon beta 1, fibroblast
C10	Mm.246593	NM_177348	Ifne	Interferon epsilon
C11	Mm.240327	NM_008337	Ifng	Interferon gamma
C12	Mm.549	NM_010511	Ifngr1	Interferon gamma receptor 1
D01	Mm.249364	NM_008338	Ifngr2	Interferon gamma receptor 2
D02	Mm.386929	NM_199157	Ifnk	Interferon kappa
D03	Mm.368232	NM_197889	Ifnz	Interferon zeta
D04	Mm.4154	NM_008349	Il10rb	Interleukin 10 receptor, beta
D05	Mm.239707	NM_008352	Il12b	Interleukin 12B
D06	Mm.731	NM_008353	Il12rb1	Interleukin 12 receptor, beta 1
D07	Mm.188337	NM_008354	Il12rb2	Interleukin 12 receptor, beta 2
D08	Mm.1284	NM_008355	Il13	Interleukin 13
D09	Mm.24208	NM_133990	Il13ra1	Interleukin 13 receptor, alpha 1

Position	UniGene	GenBank	Symbol	Description
D10	Mm.4392	NM_008357	Il15	Interleukin 15
D11	Mm.234667	NM_172786	Il20ra	Interleukin 20 receptor, alpha
D12	Mm.157689	NM_021782	Il21	Interleukin 21
E01	Mm.155643	NM_021887	Il21r	Interleukin 21 receptor
E02	Mm.331979	NM_178258	Il22ra2	Interleukin 22 receptor, alpha 2
E03	Mm.246799	NM_177396	Il28b	Interleukin 28B
E04	Mm.259623	NM_174851	Il28ra	Interleukin 28 receptor alpha
E05	Mm.35287	NM_008368	Il2rb	Interleukin 2 receptor, beta chain
E06	Mm.2923	NM_013563	Il2rg	Interleukin 2 receptor, gamma chain
E07	Mm.425857	NM_008369	Il3ra	Interleukin 3 receptor, alpha chain
E08	Mm.276360	NM_021283	Il4	Interleukin 4
E09	Mm.233802	NM_001008700	Il4ra	Interleukin 4 receptor, alpha
E10	Mm.1019	NM_031168	Il6	Interleukin 6
E11	Mm.2856	NM_010559	Il6ra	Interleukin 6 receptor, alpha
E12	Mm.4364	NM_010560	Il6st	Interleukin 6 signal transducer
F01	Mm.3825	NM_008371	Il7	Interleukin 7
F02	Mm.389	NM_008372	Il7r	Interleukin 7 receptor
F03	Mm.3006	NM_008373	Il9	Interleukin 9
F04	Mm.384	NM_008374	Il9r	Interleukin 9 receptor
F05	Mm.105218	NM_008390	Irf1	Interferon regulatory factor 1
F06	Mm.1149	NM_008391	Irf2	Interferon regulatory factor 2
F07	Mm.274237	NM_178757	Irf2bp1	Interferon regulatory factor 2 binding protein 1
F08	Mm.3960	NM_016849	Irf3	Interferon regulatory factor 3
F09	Mm.4677	NM_013674	Irf4	Interferon regulatory factor 4
F10	Mm.6479	NM_012057	Irf5	Interferon regulatory factor 5
F11	Mm.305674	NM_016851	Irf6	Interferon regulatory factor 6
F12	Mm.3233	NM_016850	Irf7	Interferon regulatory factor 7
G01	Mm.334861	NM_008320	Irf8	Interferon regulatory factor 8
G02	Mm.29938	NM_008326	Irgm1	Immunity-related GTPase family M member 1
G03	Mm.4950	NM_015783	lsg15	ISG15 ubiquitin-like modifier
G04	Mm.259282	NM_010704	Lepr	Leptin receptor
G05	Mm.4964	NM_008501	Lif	Leukemia inhibitory factor
G06	Mm.149720	NM_013584	Lifr	Leukemia inhibitory factor receptor
G07	Mm.4864	NM_010823	Mpl	Myeloproliferative leukemia virus oncogene
G08	Mm.33996	NM_010846	Mx1	Myxovirus (influenza virus) resistance 1
G09	Mm.14301	NM_145211	Oas1a	2'-5' oligoadenylate synthetase 1A
G10	Mm.131422	NM_001013365	Osm	Oncostatin M
G11	Mm.10760	NM_011019	Osmr	Oncostatin M receptor
G12	Mm.10516	NM_011169	Prlr	Prolactin receptor
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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