

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

Mouse Type I Interferon Response

Cat. no. 330231 PAMM-016ZA

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™



Description

The Mouse Type I Interferon Response RT² Profiler PCR Array profiles the expression of genes involved in the interferon- α and interferon- β immune responses. This array contains the alpha and beta interferons (IFNs) and their receptors. It also includes signaling molecules involved in the interferon α , β response and IFN-responsive genes. Genes associated with virally induced and intrinsic interferon resistance are included as well. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to Interferon α , β Response 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	Bag3	Bsf2	Casp1	Cav1	Ccl2	Ccl4	Ccl5	Cd69	Cd70	Cd80	Cd86
B	Cdkn1b	Ciita	Crp	Cxcl10	Ddx58	Eif2ak2	Gbp1	H2-BI	H2-D1	H2-K1	H2-M10.1	H2-M3
C	H2-T10	Ifi204	Ifi30	Ifih1	Ifi1	Ifi2	Ifi3	Ifitm1	Ifitm2	Ifitm3	Ifna2	Ifna4
D	Ifnar1	Ifnar2	Ifnb1	Ifne	Ifnz	Il10	Il15	Il6	Irf1	Irf2	Irf3	Irf5
E	Irf7	Irf9	Isg15	Isg20	Jak1	Jak2	Mal	Met	Mx1	Mx2	Myd88	Nmi
F	Nos2	Oas1a	Oas1b	Oas2	Pml	Prkcz	Psme2	Sh2d1a	Shb	Socs1	Stat1	Stat2
G	Stat3	Top1	Ticam1	Timp1	Tlr3	Tlr7	Tlr8	Tlr9	Tnfrsf10	Traf3	Tyk2	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.316628	NM_019655	Adar	Adenosine deaminase, RNA-specific
A02	Mm.84073	NM_013863	Bag3	Bcl2-associated athanogene 3
A03	Mm.260325	NM_198095	Bsf2	Bone marrow stromal cell antigen 2
A04	Mm.1051	NM_009807	Casp1	Caspase 1
A05	Mm.28278	NM_007616	Cav1	Caveolin 1, caveolae protein
A06	Mm.290320	NM_011333	Ccl2	Chemokine (C-C motif) ligand 2
A07	Mm.244263	NM_013652	Ccl4	Chemokine (C-C motif) ligand 4
A08	Mm.284248	NM_013653	Ccl5	Chemokine (C-C motif) ligand 5
A09	Mm.74745	NM_001033122	Cd69	CD69 antigen
A10	Mm.42228	NM_011617	Cd70	CD70 antigen
A11	Mm.89474	NM_009855	Cd80	CD80 antigen
A12	Mm.1452	NM_019388	Cd86	CD86 antigen
B01	Mm.2958	NM_009875	Cdkn1b	Cyclin-dependent kinase inhibitor 1B
B02	Mm.249560	NM_007575	Ciita	Class II transactivator
B03	Mm.28767	NM_007768	Crp	C-reactive protein, pentraxin-related
B04	Mm.877	NM_021274	Cxcl10	Chemokine (C-X-C motif) ligand 10
B05	Mm.86382	NM_172689	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
B06	Mm.378990	NM_011163	Eif2ak2	Eukaryotic translation initiation factor 2-alpha kinase 2
B07	Mm.457978	NM_010259	Gbp1	Guanylate binding protein 1
B08	Mm.477808	NM_008199	H2-BI	Histocompatibility 2, blastocyst
B09	Mm.33263	NM_010380	H2-D1	Histocompatibility 2, D region locus 1
B10	Mm.16771	NM_001001892	H2-K1	Histocompatibility 2, K1, K region
B11	Mm.347438	NM_013544	H2-M10.1	Histocompatibility 2, M region locus 10.1
B12	Mm.14437	NM_013819	H2-M3	Histocompatibility 2, M region locus 3
C01	Mm.195061	NM_010395	H2-T10	Histocompatibility 2, T region locus 10
C02	Mm.442561	NM_008329	Ifi204	Interferon activated gene 204
C03	Mm.30241	NM_023065	Ifi30	Interferon gamma inducible protein 30
C04	Mm.136224	NM_027835	Ifih1	Interferon induced with helicase C domain 1
C05	Mm.439751	NM_008331	Ifi1	Interferon-induced protein with tetratricopeptide repeats 1
C06	Mm.2036	NM_008332	Ifi2	Interferon-induced protein with tetratricopeptide repeats 2
C07	Mm.426079	NM_010501	Ifi3	Interferon-induced protein with tetratricopeptide repeats 3
C08	Mm.175661	NM_026820	Ifitm1	Interferon induced transmembrane protein 1
C09	Mm.379266	NM_030694	Ifitm2	Interferon induced transmembrane protein 2
C10	Mm.141021	NM_025378	Ifitm3	Interferon induced transmembrane protein 3
C11	Mm.14091	NM_010503	Ifna2	Interferon alpha 2
C12	Mm.377088	NM_010504	Ifna4	Interferon alpha 4
D01	Mm.502	NM_010508	Ifnar1	Interferon (alpha and beta) receptor 1
D02	Mm.6834	NM_010509	Ifnar2	Interferon (alpha and beta) receptor 2
D03	Mm.1245	NM_010510	Ifnb1	Interferon beta 1, fibroblast
D04	Mm.246593	NM_177348	Ifne	Interferon epsilon
D05	Mm.368232	NM_197889	Ifnz	Interferon zeta
D06	Mm.874	NM_010548	Il10	Interleukin 10
D07	Mm.4392	NM_008357	Il15	Interleukin 15
D08	Mm.1019	NM_031168	Il6	Interleukin 6
D09	Mm.105218	NM_008390	Irf1	Interferon regulatory factor 1

Position	UniGene	GenBank	Symbol	Description
D10	Mm.11149	NM_008391	Irf2	Interferon regulatory factor 2
D11	Mm.3960	NM_016849	Irf3	Interferon regulatory factor 3
D12	Mm.6479	NM_012057	Irf5	Interferon regulatory factor 5
E01	Mm.3233	NM_016850	Irf7	Interferon regulatory factor 7
E02	Mm.2032	NM_008394	Irf9	Interferon regulatory factor 9
E03	Mm.4950	NM_015783	Isg15	ISG15 ubiquitin-like modifier
E04	Mm.322843	NM_020583	Isg20	Interferon-stimulated protein
E05	Mm.289657	NM_146145	Jak1	Janus kinase 1
E06	Mm.275839	NM_008413	Jak2	Janus kinase 2
E07	Mm.39040	NM_010762	Mal	Myelin and lymphocyte protein, T-cell differentiation protein
E08	Mm.86844	NM_008591	Met	Met proto-oncogene
E09	Mm.33996	NM_010846	Mx1	Myxovirus (influenza virus) resistance 1
E10	Mm.14157	NM_013606	Mx2	Myxovirus (influenza virus) resistance 2
E11	Mm.213003	NM_010851	Myd88	Myeloid differentiation primary response gene 88
E12	Mm.7491	NM_019401	Nmi	N-myc (and STAT) interactor
F01	Mm.2893	NM_010927	Nos2	Nitric oxide synthase 2, inducible
F02	Mm.14301	NM_145211	Oas1a	2'-5' oligoadenylate synthetase 1A
F03	Mm.233471	NR_003507	Oas1b	2'-5' oligoadenylate synthetase 1B
F04	Mm.260926	NM_145227	Oas2	2'-5' oligoadenylate synthetase 2
F05	Mm.392123	NM_008884	Pml	Promyelocytic leukemia
F06	Mm.28561	NM_008860	Prkcz	Protein kinase C, zeta
F07	Mm.371573	NM_011190	Psme2	Proteasome (prosome, macropain) 28 subunit, beta
F08	Mm.441197	NM_011364	Sh2d1a	SH2 domain protein 1A
F09	Mm.251716	NM_001033306	Shb	Src homology 2 domain-containing transforming protein B
F10	Mm.130	NM_009896	Socs1	Suppressor of cytokine signaling 1
F11	Mm.277406	NM_009283	Stat1	Signal transducer and activator of transcription 1
F12	Mm.293120	NM_019963	Stat2	Signal transducer and activator of transcription 2
G01	Mm.249934	NM_011486	Stat3	Signal transducer and activator of transcription 3
G02	Mm.482076	NM_013683	Tap1	Transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
G03	Mm.203952	NM_174989	Ticam1	Toll-like receptor adaptor molecule 1
G04	Mm.8245	NM_011593	Timp1	Tissue inhibitor of metalloproteinase 1
G05	Mm.33874	NM_126166	Tlr3	Toll-like receptor 3
G06	Mm.23979	NM_133211	Tlr7	Toll-like receptor 7
G07	Mm.196676	NM_133212	Tlr8	Toll-like receptor 8
G08	Mm.44889	NM_031178	Tlr9	Toll-like receptor 9
G09	Mm.1062	NM_009425	Tnfrsf10	Tumor necrosis factor (ligand) superfamily, member 10
G10	Mm.27431	NM_011632	Traf3	Tnf receptor-associated factor 3
G11	Mm.20249	NM_018793	Tyk2	Tyrosine kinase 2
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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