RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse Type I Interferon Response

Cat. no. 330231 PAMM-016ZR

For pathway expression analysis

Format	For use with the following real-time cyclers
RT² Profiler PCR Array, Format R	Rotor-Gene Q, other Rotor-Gene cyclers

Description

The Mouse Type I Interferon Response RT² Profiler PCR Array profiles the expression of genes involved in the interferon-a 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 the Rotor-Gene format are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

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

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc™ (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance.

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	Bst2	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-Bl	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	Ifit1	Interferon-induced protein with tetratricopeptide repeats 1
C06	Mm.2036	NM_008332	Ifit2	Interferon-induced protein with tetratricopeptide repeats 2
C07	Mm.426079	NM_010501	Ifit3	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
D10	Mm.1149	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

Position	UniGene	GenBank	Symbol	Description
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	Tnfsf10	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.
RT² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT² SYBR Green ROX™ FAST Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the Rotor-Gene Q and other Rotor-Gene cyclers	330620

* 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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