

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

Rat Interferons & Receptors

Cat. no. 330231 PARN-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 Rat 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	Cntfr	Crf2	Csf2	Csf2ra	Csf2rb	Csf3	Csf3r	Ctf2	Cxcl10	Epor	F3
B	Ghr	Ifi204	Ifi27	Ifi30	Ifi35	Ifi44	Ifit1	Ifit2	Ifit3	Ifitm1	Ifitm2	Ifna1
C	Ifna2	Ifna4	Ifnar1	Ifnb1	Ifng	Ifngr1	Ifngr2	Ifnk	Ifrd1	Ifrd2	Il10ra	Il10rb
D	Il11ra1	Il12b	Il12rb1	Il12rb2	Il13	Il13ra1	Il13ra2	Il15	Il20ra	Il21	Il21r	Il22ra2
E	Il2rb	Il2rg	Il3ra	Il4	Il4ra	Il5ra	Il6	Il6r	Il6st	Il7	Il7r	Il9
F	Il9r	Irf1	Irf2	Irf2bp1	Irf3	Irf4	Irf5	Irf6	Irf7	Irf8	Irgm	Isg15
G	Lepre	Lif	Lifr	Mpl	Mx1	Oas1a	Osm	Osmr	Prlr	Psme1	Sp110	Ttn
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Rn.10056	NM_031006	Adar	Adenosine deaminase, RNA-specific
A02	Rn.55036	NM_001003929	Cntfr	Ciliary neurotrophic factor receptor
A03	Rn.177948	NM_134465	Crf2	Cytokine receptor-like factor 2
A04	Rn.44285	XM_340799	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)
A05	Rn.216620	NM_001037660	Csf2ra	Granulocyte-macrophage colony stimulating receptor alpha
A06	Rn.42930	NM_133555	Csf2rb	Colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
A07	Rn.53973	NM_017104	Csf3	Colony stimulating factor 3 (granulocyte)
A08	Rn.134664	NM_001106685	Csf3r	Colony stimulating factor 3 receptor (granulocyte)
A09	Rn.160600	NM_001135800	Ctf2	Cardiotrophin 2
A10	Rn.10584	NM_139089	Cxcl10	Chemokine (C-X-C motif) ligand 10
A11	Rn.22394	NM_017002	Epor	Erythropoietin receptor
A12	Rn.9980	NM_013057	F3	Coagulation factor III (thromboplastin, tissue factor)
B01	Rn.2178	NM_017094	Ghr	Growth hormone receptor
B02	Rn.15194	NM_001012029	Ifi204	Interferon activated gene 204
B03	Rn.3867	NM_203410	Ifi27	Interferon, alpha-inducible protein 27
B04	Rn.3370	NM_001030026	Ifi30	Interferon gamma inducible protein 30
B05	Rn.44680	NM_001009625	Ifi35	Interferon-induced protein 35
B06	Rn.43876	NM_001107729	Ifi44	Interferon-induced protein 44
B07	Rn.48677	NM_020096	Ifit1	Interferon-induced protein with tetratricopeptide repeats 1
B08	Rn.6175	NM_001024753	Ifit2	Interferon-induced protein with tetratricopeptide repeats 2
B09	Rn.35775	NM_001007694	Ifit3	Interferon-induced protein with tetratricopeptide repeats 3
B10	Rn.22087	NM_001106314	Ifitm1	Interferon induced transmembrane protein 1
B11	Rn.108174	NM_030833	Ifitm2	Interferon induced transmembrane protein 2
B12	Rn.196548	NM_001014786	Ifna1	Interferon-alpha 1
C01	N/A	XM_233152	Ifna2	Interferon alpha family, gene 2
C02	Rn.218577	NM_001106667	Ifna4	Interferon, alpha 4
C03	Rn.105738	NM_001105893	Ifnar1	Interferon (alpha, beta and omega) receptor 1
C04	Rn.138105	NM_019127	Ifnb1	Interferon beta 1, fibroblast
C05	Rn.10795	NM_138880	Ifng	Interferon gamma
C06	Rn.19927	NM_053783	Ifngr1	Interferon gamma receptor 1
C07	Rn.23305	NM_001108313	Ifngr2	Interferon gamma receptor 2
C08	Rn.104672	NM_001107925	Ifnk	Interferon kappa
C09	Rn.3723	NM_019242	Ifrd1	Interferon-related developmental regulator 1
C10	Rn.8306	NM_001047871	Ifrd2	Interferon-related developmental regulator 2
C11	Rn.64632	NM_057193	Il10ra	Interleukin 10 receptor, alpha
C12	Rn.22261	NM_001107111	Il10rb	Interleukin 10 receptor, beta
D01	Rn.29849	NM_139116	Il11ra1	Interleukin 11 receptor, alpha chain 1
D02	Rn.48686	NM_022611	Il12b	Interleukin 12b
D03	Rn.162266	XM_344493	Il12rb1	Interleukin 12 receptor, beta 1
D04	Rn.207395	XM_231873	Il12rb2	Interleukin 12 receptor, beta 2
D05	Rn.9921	NM_053828	Il13	Interleukin 13
D06	Rn.81210	NM_145789	Il13ra1	Interleukin 13 receptor, alpha 1
D07	Rn.162308	NM_133538	Il13ra2	Interleukin 13 receptor, alpha 2
D08	Rn.2490	NM_013129	Il15	Interleukin 15
D09	Rn.162399	NM_001107521	Il20ra	Interleukin 20 receptor, alpha

Position	UniGene	GenBank	Symbol	Description
D10	Rn.214949	NM_001108943	Il21	Interleukin 21
D11	Rn.103248	NM_001012469	Il21r	Interleukin 21 receptor
D12	Rn.13127	NM_001003404	Il22ra2	Interleukin 22 receptor, alpha 2
E01	Rn.5832	NM_013195	Il2rb	Interleukin 2 receptor, beta
E02	Rn.14508	NM_080889	Il2rg	Interleukin 2 receptor, gamma
E03	Rn.144673	NM_139260	Il3ra	Interleukin 3 receptor, alpha
E04	Rn.108255	NM_201270	Il4	Interleukin 4
E05	Rn.10471	NM_133380	Il4ra	Interleukin 4 receptor, alpha
E06	Rn.67068	NM_053645	Il5ra	Interleukin 5 receptor, alpha
E07	Rn.9873	NM_012589	Il6	Interleukin 6
E08	Rn.1716	NM_017020	Il6r	Interleukin 6 receptor
E09	Rn.12138	NM_001008725	Il6st	Interleukin 6 signal transducer
E10	Rn.10793	NM_013110	Il7	Interleukin 7
E11	Rn.6633	NM_001106418	Il7r	Interleukin 7 receptor
E12	Rn.92374	NM_001105747	Il9	Interleukin 9
F01	Rn.10045	NM_017021	Il9r	Interleukin 9 receptor
F02	Rn.6396	NM_012591	Irf1	Interferon regulatory factor 1
F03	Rn.107887	NM_001047086	Irf2	Interferon regulatory factor 2
F04	Rn.9129	NM_001107483	Irf2bp1	Interferon regulatory factor 2 binding protein 1
F05	Rn.1499	NM_001006969	Irf3	Interferon regulatory factor 3
F06	Rn.82114	NM_001106108	Irf4	Interferon regulatory factor 4
F07	Rn.203787	NM_001106586	Irf5	Interferon regulatory factor 5
F08	Rn.12385	NM_001108859	Irf6	Interferon regulatory factor 6
F09	Rn.101159	NM_001033691	Irf7	Interferon regulatory factor 7
F10	Rn.3765	NM_001008722	Irf8	Interferon regulatory factor 8
F11	Rn.20356	NM_001012007	Irgm	Immunity-related GTPase family, M
F12	Rn.198318	NM_001106700	Isg15	ISG15 ubiquitin-like modifier
G01	Rn.9891	NM_012596	Lepr	Leptin receptor
G02	Rn.44379	NM_022196	Lif	Leukemia inhibitory factor
G03	Rn.14529	NM_031048	Lifr	Leukemia inhibitory factor receptor alpha
G04	Rn.198731	XM_345572	Mpl	Myeloproliferative leukemia virus oncogene
G05	Rn.10373	NM_173096	Mx1	Myxovirus (influenza virus) resistance 1
G06	Rn.10383	NM_138913	Oas1a	2'-5' oligoadenylate synthetase 1A
G07	Rn.127158	NM_001006961	Osm	Oncostatin M
G08	Rn.92110	NM_001005384	Osmr	Oncostatin M receptor
G09	Rn.9757	NM_012630	Prlr	Prolactin receptor
G10	Rn.2742	NM_017264	Psme1	Proteasome (prosome, macropain) activator subunit 1
G11	Rn.6459	NM_001034137	Sp110	SP110 nuclear body protein
G12	Rn.199561	XM_001065955	Ttn	Titin
H01	Rn.94978	NM_031144	Actb	Actin, beta
H02	Rn.1868	NM_012512	B2m	Beta-2 microglobulin
H03	Rn.47	NM_012583	Hprt1	Hypoxanthine phosphoribosyltransferase 1
H04	Rn.107896	NM_017025	Ldha	Lactate dehydrogenase A
H05	Rn.973	NM_001007604	Rplp1	Ribosomal protein, large, P1
H06	N/A	U26919	RGDC	Rat 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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