RT² Profiler PCR Array (Rotor-Gene® Format) Mouse NFkB Signaling Pathway

Cat. no. 330231 PAMM-025ZR

For pathway expression analysis

Format	For use with the following real-time cyclers		
RT ² Profiler PCR Array,	Rotor-Gene Q, other Rotor-Gene cyclers		
Format R			

Description

The Mouse NF κ B Signaling Pathway RT² Profiler PCR Array profiles the expression of 84 key genes related to NF κ B-mediated signal transduction. The array includes genes that encode members of the Rel, NF κ B, and I κ B families, NF κ B-responsive genes, extracellular ligands and receptors that activate the pathway, and kinases and transcription factors that propagate the signal. NF κ B-mediated signal transduction has been implicated in the regulation of viral replication, autoimmune diseases, the inflammatory response, tumorigenesis and apoptosis. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes involved in the NF κ B signal transduction pathway 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.



Sample & Assay Technologies

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.301626	NM_007428	Agt	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
A02	Mm.6645	NM 009652	Akt1	Thymoma viral proto-oncogene 1
A03	Mm.473546	NM_007497	Aff1	Activating transcription factor 1
A04	Mm.209903	NM_009715	Atf2	Activating transcription factor 2
A05	Mm.239141	NM 009740	Bcl10	B-cell leukemia/lymphoma 10
A06	Mm.425593	NM_009742	Bcl2a1a	B-cell leukemia/lymphoma 2 related protein A1a
A07	Mm.238213	NM 009743	Bcl2l1	Bcl2-like 1
A08	Mm.439658	NM 033601	Bcl3	B-cell leukemia/lymphoma 3
A09	Mm.2026	NM 007464	Birc3	Baculoviral IAP repeat-containing 3
A10	Mm.17629	NM 130859	Card10	Caspase recruitment domain family, member 10
A11	Mm.46187	NM 175362	Card11	Caspase recruitment domain family, member 11
A12	Mm.1051	NM 009807	Casp1	Caspase 1
B01	Mm.336851	NM 009812	Casp8	Caspase 8
B02	Mm.290320	NM 011333	Ccl2	Chemokine (C-C motif) ligand 2
B03	Mm.284248	NM 013653	Ccl5	Chemokine (C-C motif) ligand 5
B04	Mm.367714	NM 001033126	Cd27	CD27 antigen
B05	Mm.271833	NM 011611	Cd40	CD40 antigen
B06	Mm.336848	NM 009805	Cflar	CASP8 and FADD-like apoptosis regulator
B07	Mm.3996	NM 007700	Chuk	Conserved helix-loop-helix ubiquitous kinase
B08	Mm.132238	NM 001025432	Crebbp	CREB binding protein
B09	Mm.795	NM 007778	Csf1	Colony stimulating factor 1 (macrophage)
B10	Mm.4922	NM 009969	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)
B10 B11	Mm.1238	NM 009971	Csf3	Colony stimulating factor 3 (granulocyte)
B12	Mm.8534	NM 007912	Egfr	Epidermal growth factor receptor
C01	Mm.181959	NM 007913	Egr1	Early growth response 1
C01	Mm.378990	NM 011163	Eif2ak2	Eukaryotic translation initiation factor 2-alpha kinase 2
C02	Mm.405823	NM 007922	Elizakz Elk1	,
C03	Mm.405823 Mm.24816	-	F2r	ELK1, member of ETS oncogene family
C04 C05	Mm.24816 Mm.5126	NM_010169 NM 010175	Fadd	Coagulation factor II (thrombin) receptor
C05		-	Faaa Fasl	Fas (TNFRSF6)-associated via death domain
	Mm.3355	NM_010177		Fas ligand (TNF superfamily, member 6)
C07 C08	Mm.246513	NM_010234	Fos Hmox1	FBJ osteosarcoma oncogene
	Mm.276389	NM_010442		Heme oxygenase (decycling) 1
C09	Mm.435508	NM_010493	lcam1	Intercellular adhesion molecule 1
C10	Mm.240327	NM_008337	lfng	Interferon gamma
C11	Mm.277886	NM_010546	Ikbkb	Inhibitor of kappaB kinase beta
C12	Mm.386783	NM_019777	Ikbke	Inhibitor of kappaB kinase epsilon
D01	Mm.12967	NM_010547	Ikbkg	Inhibitor of kappaB kinase gamma
D02	Mm.874	NM_010548	110	Interleukin 10
D03	Mm.15534	NM_010554	ll1a	Interleukin 1 alpha
D04	Mm.222830	NM_008361	ll1b	Interleukin 1 beta
D05	Mm.896	NM_008362	1r1	Interleukin 1 receptor, type I
D06	Mm.38241	NM_008363	lrak1	Interleukin-1 receptor-associated kinase 1
D07	Mm.152142	NM_172161	Irak2	Interleukin-1 receptor-associated kinase 2
D08	Mm.105218	NM_008390	Irf1	Interferon regulatory factor 1
D09	Mm.275071	NM_010591	Jun	Jun oncogene
D10	Mm.87787	NM_010735	Lta	Lymphotoxin A
D11	Mm.3122	NM_010736	Ltbr	Lymphotoxin B receptor
D12	Mm.15918	NM_011945	Map3k1	Mitogen-activated protein kinase kinase 1
E01	Mm.8385	NM_011952	Mapk3	Mitogen-activated protein kinase 3
E02	Mm.213003	NM_010851	Myd88	Myeloid differentiation primary response gene 88
E03	Mm.256765	NM_008689	Nfkb1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1, p105
E04	Mm.102365	NM_019408	Nfkb2	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p1
E05	Mm.170515	NM_010907	Nfkbia	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor alpha
E06	Mm.28498	NM 172729	Nod1	Nucleotide-binding oligomerization domain containing 1
E07	Mm.184163	NM 029780	Raf1	V-raf-leukemia viral oncogene 1
E08	Mm.4869	NM 009044	Rel	Reticuloendotheliosis oncogene

Position	UniGene	GenBank	Symbol	Description
E09	Mm.249966	NM_009045	Rela	V-rel reticuloendotheliosis viral oncogene homolog A (avian)
E10	Mm.1741	NM_009046	Relb	Avian reticuloendotheliosis viral (v-rel) oncogene related B
E11	Mm.374799	NM_009068	Ripk1	Receptor (TNFRSF)-interacting serine-threonine kinase 1
E12	Mm.112765	NM_138952	Ripk2	Receptor (TNFRSF)-interacting serine-threonine kinase 2
F01	Mm.272675	NM_015747	Slc20a1	Solute carrier family 20, member 1
F02	Mm.7320	NM_016769	Smad3	MAD homolog 3 (Drosophila)
F03	Mm.277406	NM_009283	Stat 1	Signal transducer and activator of transcription 1
F04	Mm.34580	NM_019786	Tbk1	TANK-binding kinase 1
F05	Mm.273024	NM_030682	Tlr1	Toll-like receptor 1
F06	Mm.87596	NM_011905	Tlr2	Toll-like receptor 2
F07	Mm.33874	NM_126166	Tlr3	Toll-like receptor 3
F08	Mm.38049	NM 021297	Tlr4	Toll-like receptor 4
F09	Mm.42146	NM 011604	Tlr6	Toll-like receptor 6
F10	Mm.44889	NM 031178	Tlr9	Toll-like receptor 9
F11	Mm.1293	NM 013693	Tnf	Tumor necrosis factor
F12	Mm.116683	 NM 009397	Tnfaip3	Tumor necrosis factor, alpha-induced protein 3
G01	Mm.193430	NM 020275	Tnfrsf10b	Tumor necrosis factor receptor superfamily, member 10b
G02	Mm.1258	NM 011609	Tnfrsf1a	Tumor necrosis factor receptor superfamily, member 1a
G03	Mm.235328	 NM 011610	Tnfrsf1b	Tumor necrosis factor receptor superfamily, member 1b
G04	Mm.1062	NM 009425	Tnfsf10	Tumor necrosis factor (ligand) superfamily, member 10
G05	Mm.483369	NM 019418	Tnfsf14	Tumor necrosis factor (ligand) superfamily, member 14
G06	Mm.103551	 NM 023764	Tollip	Toll interacting protein
G07	Mm.264255	NM 001033161	Tradd	TNFRSF1A-associated via death domain
G08	Mm.3399	NM 009422	Traf2	Tnf receptor-associated factor 2
G09	Mm.27431	NM 011632	Traf3	Tnf receptor-associated factor 3
G10	Mm.380491	NM 011633	Traf5	Tnf receptor-associated factor 5
G11	Mm.292729	NM 009424	Traf6	Tnf receptor-associated factor 6
G12	Mm.8038	NM 009539	Zap70	Zeta-chain (TCR) associated protein kinase
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		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
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.

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