

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

Chicken NF κ B Signaling

Cat. no. 330231 PAGG-025ZA

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 Chicken NFκB Signaling Pathway RT²Profiler™ PCR Array profiles the expression of 84 key genes related to NFκB-mediated signal transduction. The array includes genes that encode members of the Rel, NFκB, and IκB families, NFκB-responsive genes, extracellular ligands and receptors that activate the pathway, and kinases and transcription factors that propagate the signal. NFκB-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 NFκB signal transduction pathway 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	AGT	AKT1	ATF1	ATF2	BCL10	BCL2A1	BCL2L1	BIRC2	CARD10	CARD11	CASP1	CASP8
B	CCL20	CCL5	CD40	CD83	CFLAR	CHUK	CREBBP	CSF1	CSF2	CSF3	CXCL8	EGFR
C	EGR1	EIF2AK2	F2R	FADD	FASLG	FOS	HMOX1	IFNA3	IFNG	IKBKB	IKBKE	IL10
D	IL1B	IL1R1	IRAK2	IRF1	JUN	LITAF	MAP3K1	MAPK1	MYD88	NFKB1	NFKB2	NFKBIA
E	NFKBIB	NFKBIE	NOD1	PCASP1	PSIP1	RAF1	REL	RELA	RELB	RHOA	RIPK1	RIPK2
F	SLC20A1	SMAD3	STAT1	STX11	TBK1	TICAM1	TIFA	TLR1A	TLR2A	TLR3	TLR4	TNFAIP2
G	TNFAIP3	TNFRSF10B	TNFRSF1A	TNFRSF1B	TNFSF10	TOLLIP	TRADD	TRAF2	TRAF3	TRAF5	TRAF6	ZAP70
H	ACTB	H6PD	HMB5	RPL4	UBC	GGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Gga.2555	XM_004935491	AGT	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
A02	Gga.3875	NM_205055	AKT1	V-akt murine thymoma viral oncogene homolog 1
A03	Gga.53290	XM_004949717	ATF1	Activating transcription factor 1
A04	Gga.27381	NM_204904	ATF2	Activating transcription factor 2
A05	Gga.2796	NM_001201487	BCL10	B-cell CLL/lymphoma 10
A06	Gga.5164	NM_204866	BCL2A1	BCL2-related protein A1
A07	Gga.4944	NM_001025304	BCL2L1	BCL2-like 1
A08	Gga.21826	NM_001007822	BIRC2	Baculoviral IAP repeat containing 2
A09	N/A	XM_416277	CARD10	Caspase recruitment domain family, member 10
A10	Gga.7057	NM_001006161	CARD11	Caspase recruitment domain family, member 11
A11	Gga.10204	NM_204924	CASP1	Caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
A12	Gga.2451	NM_204592	CASP8	Caspase 8, apoptosis-related cysteine peptidase
B01	Gga.5128	NM_204438	CCL20	Chemokine (C-C motif) ligand 20
B02	Gga.9563	NM_001045832	CCL5	Chemokine (C-C motif) ligand 5
B03	Gga.197	NM_204665	CD40	CD40 molecule, TNF receptor superfamily member 5
B04	Gga.11593	XM_418929	CD83	CD83 molecule
B05	Gga.21431	NM_001202462	CFLAR	CASP8 and FADD-like apoptosis regulator
B06	Gga.5483	NM_001012904	CHUK	Conserved helix-loop-helix ubiquitous kinase
B07	Gga.14724	XM_414964	CREBBP	CREB binding protein (Rubinstein-Taybi syndrome)
B08	Gga.53152	NM_001193295	CSF1	Colony-stimulating factor 1
B09	Gga.9130	NM_001007078	CSF2	Granulocyte-macrophage colony-stimulating factor
B10	Gga.712	NM_205279	CSF3	Mature cMGF
B11	N/A	XM_015301388	CXCL8	C-X-C motif chemokine ligand 8
B12	Gga.35024	NM_205497	EGFR	Epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)

Position	UniGene	GenBank	Symbol	Description
C01	Gga.4922	NM_204136	EGR1	Early growth response 1
C02	Gga.9292	NM_204487	EIF2AK2	Eukaryotic translation initiation factor 2-alpha kinase 2
C03	N/A	XM_004937337	F2R	Coagulation factor II (thrombin) receptor
C04	Gga.54620	XM_421073	FADD	Fas (TNFRSF6)-associated via death domain
C05	Gga.29896	NM_001031559	FASLG	Fas ligand (TNF superfamily, member 6)
C06	Gga.8709	NM_205508	FOS	FBJ murine osteosarcoma viral oncogene homolog
C07	Gga.2039	NM_205344	HMOX1	Heme oxygenase (decycling) 1
C08	Gga.801	NM_205427	IFNA3	Interferon
C09	Gga.916	NM_205149	IFNG	Interferon, gamma
C10	Gga.12915	NM_001031397	IKBKB	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
C11	N/A	XM_004934959	IKBKE	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon
C12	Gga.46641	NM_001004414	IL10	Interleukin 10
D01	Gga.19	NM_204524	IL1B	Interleukin 1, beta
D02	Gga.846	NM_205485	IL1R1	Interleukin 1 receptor, type I
D03	Gga.7865	NM_001030605	IRAK2	Interleukin-1 receptor-associated kinase 2
D04	Gga.791	NM_205415	IRF1	Interferon regulatory factor 1
D05	Gga.1473	NM_001031289	JUN	Jun proto-oncogene
D06	Gga.3383	NM_204267	LITAF	Lipopolysaccharide-induced TNF factor
D07	Gga.56003	XM_424734	MAP3K1	Mitogen-activated protein kinase kinase kinase 1
D08	Gga.24275	NM_204150	MAPK1	Mitogen-activated protein kinase 1
D09	Gga.17397	NM_001030962	MYD88	Myeloid differentiation primary response gene (88)
D10	Gga.3531	NM_205134	NFKB1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
D11	Gga.1057	NM_204413	NFKB2	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
D12	Gga.41891	NM_001001472	NFKBIA	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
E01	N/A	XM_003643504	NFKBIB	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta
E02	N/A	XM_419490	NFKBIE	Similar to LOC506727 protein
E03	N/A	XM_418777	NOD1	Nucleotide-binding oligomerization domain containing 1
E04	N/A	XM_003642904	PCASPI	Mucosa-associated lymphoid tissue lymphoma translocation protein 1 homolog
E05	Gga.22262	NM_001031610	PSIP1	PC4 and SFRS1 interacting protein 1
E06	Gga.42842	NM_205307	RAF1	V-raf-1 murine leukemia viral oncogene homolog 1
E07	Gga.10724	NM_001167726	REL	V-rel reticuloendotheliosis viral oncogene homolog (avian)
E08	Gga.604	NM_205129	RELA	V-rel reticuloendotheliosis viral oncogene homolog A (avian)
E09	Gga.45963	NM_204850	RELB	V-rel reticuloendotheliosis viral oncogene homolog B, nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (avian)
E10	Gga.39064	NM_204704	RHOA	Ras homolog family member A
E11	Gga.5199	NM_204402	RIPK1	Receptor (TNFRSF)-interacting serine-threonine kinase 1
E12	Gga.22379	NM_001030943	RIPK2	Receptor-interacting serine-threonine kinase 2
F01	N/A	XM_003642557	SLC20A1	Solute carrier family 20 (phosphate transporter), member 1
F02	Gga.28197	NM_204475	SMAD3	SMAD family member 3
F03	Gga.10555	NM_001012914	STAT1	Signal transducer and activator of transcription 1, 91kDa

Position	UniGene	GenBank	Symbol	Description
F04	N/A	XM_004935577	STX11	Syntaxin 11
F05	Gga.28922	NM_001199558	TBK1	TANK-binding kinase 1
F06	Gga.12009	NM_001081506	TICAM1	Toll-like receptor adaptor molecule 1
F07	N/A	XM_420645	TIFA	TRAF-interacting protein with forkhead-associated domain
F08	Gga.22623	NM_001007488	TLR1A	Toll-like receptor 1 family member A
F09	Gga.98	NM_204278	TLR2A	Toll-like receptor 2 family member A
F10	Gga.19919	NM_001011691	TLR3	Toll-like receptor 3
F11	Gga.32116	NM_001030693	TLR4	Toll-like receptor 4
F12	N/A	XM_421383	TNFAIP2	Tumor necrosis factor, alpha-induced protein 2
G01	N/A	XM_003640919	TNFAIP3	Tumor necrosis factor, alpha-induced protein 3
G02	Gga.4589	NM_204115	TNFRSF10B	Rho-related BTB domain containing 2
G03	Gga.3371	NM_001030779	TNFRSF1A	Tumor necrosis factor receptor superfamily, member 1A
G04	Gga.5148	NM_204439	TNFRSF1B	Tumor necrosis factor receptor superfamily, member 1B
G05	Gga.8774	NM_204379	TNFSF10	Tumor necrosis factor (ligand) superfamily, member 10
G06	Gga.42665	NM_001006471	TOLLIP	Toll interacting protein
G07	N/A	XM_004944139	TRADD	TNFRSF1A-associated via death domain
G08	Gga.32381	XM_004945722	TRAF2	TNF receptor-associated factor 2
G09	Gga.12655	XM_004936339	TRAF3	TNF receptor-associated factor 3
G10	Gga.5127	NM_204219	TRAF5	TNF receptor-associated factor 5
G11	N/A	XM_421089	TRAF6	TNF receptor-associated factor 6
G12	N/A	XM_418206	ZAP70	Zeta-chain (TCR) associated protein kinase 70kDa
H01	Gga.48207	NM_205518	ACTB	Actin, beta
H02	Gga.50291	XM_425746	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
H03	Gga.8480	XM_417846	HMBS	Hydroxymethylbilane synthase
H04	Gga.4523	NM_001007479	RPL4	Ribosomal protein L4
H05	Gga.39142	XM_001234599	UBC	Ubiquitin C
H06	N/A	SA_00517	GGDC	Chicken 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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