

RT² Profiler PCR Array (Rotor-Gene® Format)

Chicken NFκB Signaling

Cat. no. 330231 PAGG-025ZR

For pathway expression analysis

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

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 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 cyclers (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
1	Gga.2555	XM_004935491	AGT	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
2	Gga.3875	NM_205055	AKT1	V-akt murine thymoma viral oncogene homolog 1
3	Gga.53290	XM_004949717	ATF1	Activating transcription factor 1
4	Gga.27381	NM_204904	ATF2	Activating transcription factor 2
5	Gga.2796	NM_001201487	BCL10	B-cell CLL/lymphoma 10
6	Gga.5164	NM_204866	BCL2A1	BCL2-related protein A1
7	Gga.4944	NM_001025304	BCL2L1	BCL2-like 1
8	Gga.21826	NM_001007822	BIRC2	Baculoviral IAP repeat containing 2
9	N/A	XM_416277	CARD10	Caspase recruitment domain family, member 10
10	Gga.7057	NM_001006161	CARD11	Caspase recruitment domain family, member 11
11	Gga.10204	NM_204924	CASP1	Caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
12	Gga.2451	NM_204592	CASP8	Caspase 8, apoptosis-related cysteine peptidase
13	Gga.5128	NM_204438	CCL20	Chemokine (C-C motif) ligand 20
14	Gga.9563	NM_001045832	CCL5	Chemokine (C-C motif) ligand 5
15	Gga.197	NM_204665	CD40	CD40 molecule, TNF receptor superfamily member 5
16	Gga.11593	XM_418929	CD83	CD83 molecule
17	Gga.21431	NM_001202462	CFLAR	CASP8 and FADD-like apoptosis regulator
18	Gga.5483	NM_001012904	CHUK	Conserved helix-loop-helix ubiquitous kinase
19	Gga.14724	XM_414964	CREBBP	CREB binding protein (Rubinstein-Taybi syndrome)
20	Gga.53152	NM_001193295	CSF1	Colony-stimulating factor 1
21	Gga.9130	NM_001007078	CSF2	Granulocyte-macrophage colony-stimulating factor
22	Gga.712	NM_205279	CSF3	Mature cMGF
23	N/A	XM_015301388	CXCL8	C-X-C motif chemokine ligand 8
24	Gga.35024	NM_205497	EGFR	Epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)
25	Gga.4922	NM_204136	EGR1	Early growth response 1
26	Gga.9292	NM_204487	EIF2AK2	Eukaryotic translation initiation factor 2-alpha kinase 2
27	N/A	XM_004937337	F2R	Coagulation factor II (thrombin) receptor
28	Gga.54620	XM_421073	FADD	Fas (TNFRSF6)-associated via death domain
29	Gga.29896	NM_001031559	FASLG	Fas ligand (TNF superfamily, member 6)
30	Gga.8709	NM_205508	FOS	FBJ murine osteosarcoma viral oncogene homolog
31	Gga.2039	NM_205344	HMOX1	Heme oxygenase (decycling) 1
32	Gga.801	NM_205427	IFNA3	Interferon
33	Gga.916	NM_205149	IFNG	Interferon, gamma
34	Gga.12915	NM_001031397	IKBKB	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
35	N/A	XM_004934959	IKBKE	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon
36	Gga.46641	NM_001004414	IL10	Interleukin 10
37	Gga.19	NM_204524	IL1B	Interleukin 1, beta
38	Gga.846	NM_205485	IL1R1	Interleukin 1 receptor, type I

Position	UniGene	GenBank	Symbol	Description
39	Gga.7865	NM_001030605	IRAK2	Interleukin-1 receptor-associated kinase 2
40	Gga.791	NM_205415	IRF1	Interferon regulatory factor 1
41	Gga.1473	NM_001031289	JUN	Jun proto-oncogene
42	Gga.3383	NM_204267	LITAF	Lipopolysaccharide-induced TNF factor
43	Gga.56003	XM_424734	MAP3K1	Mitogen-activated protein kinase kinase kinase 1
44	Gga.24275	NM_204150	MAPK1	Mitogen-activated protein kinase 1
45	Gga.17397	NM_001030962	MYD88	Myeloid differentiation primary response gene (88)
46	Gga.3531	NM_205134	NFKB1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
47	Gga.1057	NM_204413	NFKB2	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
48	Gga.41891	NM_001001472	NFKBIA	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
49	N/A	XM_003643504	NFKBIB	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta
50	N/A	XM_419490	NFKBIE	Similar to LOC506727 protein
51	N/A	XM_418777	NOD1	Nucleotide-binding oligomerization domain containing 1
52	N/A	XM_003642904	PCASPI	Mucosa-associated lymphoid tissue lymphoma translocation protein 1 homolog
53	Gga.22262	NM_001031610	PSIP1	PC4 and SFRS1 interacting protein 1
54	Gga.42842	NM_205307	RAF1	V-raf-1 murine leukemia viral oncogene homolog 1
55	Gga.10724	NM_001167726	REL	V-rel reticuloendotheliosis viral oncogene homolog (avian)
56	Gga.604	NM_205129	RELA	V-rel reticuloendotheliosis viral oncogene homolog A (avian)
57	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)
58	Gga.39064	NM_204704	RHOA	Ras homolog family member A
59	Gga.5199	NM_204402	RIPK1	Receptor (TNFRSF)-interacting serine-threonine kinase 1
60	Gga.22379	NM_001030943	RIPK2	Receptor-interacting serine-threonine kinase 2
61	N/A	XM_003642557	SLC20A1	Solute carrier family 20 (phosphate transporter), member 1
62	Gga.28197	NM_204475	SMAD3	SMAD family member 3
63	Gga.10555	NM_001012914	STAT1	Signal transducer and activator of transcription 1, 91kDa
64	N/A	XM_004935577	STX11	Syntaxin 11
65	Gga.28922	NM_001199558	TBK1	TANK-binding kinase 1
66	Gga.12009	NM_001081506	TICAM1	Toll-like receptor adaptor molecule 1
67	N/A	XM_420645	TIFA	TRAF-interacting protein with forkhead-associated domain
68	Gga.22623	NM_001007488	TLR1A	Toll-like receptor 1 family member A
69	Gga.98	NM_204278	TLR2A	Toll-like receptor 2 family member A
70	Gga.19919	NM_001011691	TLR3	Toll-like receptor 3
71	Gga.32116	NM_001030693	TLR4	Toll-like receptor 4
72	N/A	XM_421383	TNFAIP2	Tumor necrosis factor, alpha-induced protein 2
73	N/A	XM_003640919	TNFAIP3	Tumor necrosis factor, alpha-induced protein 3
74	Gga.4589	NM_204115	TNFRSF10B	Rho-related BTB domain containing 2
75	Gga.3371	NM_001030779	TNFRSF1A	Tumor necrosis factor receptor superfamily, member 1A
76	Gga.5148	NM_204439	TNFRSF1B	Tumor necrosis factor receptor superfamily, member 1B
77	Gga.8774	NM_204379	TNFSF10	Tumor necrosis factor (ligand) superfamily, member 10

Position	UniGene	GenBank	Symbol	Description
78	Gga.42665	NM_001006471	TOLLIP	Toll interacting protein
79	N/A	XM_004944139	TRADD	TNFRSF1A-associated via death domain
80	Gga.32381	XM_004945722	TRAF2	TNF receptor-associated factor 2
81	Gga.12655	XM_004936339	TRAF3	TNF receptor-associated factor 3
82	Gga.5127	NM_204219	TRAF5	TNF receptor-associated factor 5
83	N/A	XM_421089	TRAF6	TNF receptor-associated factor 6
84	N/A	XM_418206	ZAP70	Zeta-chain (TCR) associated protein kinase 70kDa
85	Gga.48207	NM_205518	ACTB	Actin, beta
86	Gga.50291	XM_425746	H6PD	Hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
87	Gga.8480	XM_417846	HMB5	Hydroxymethylbilane synthase
88	Gga.4523	NM_001007479	RPL4	Ribosomal protein L4
89	Gga.39142	XM_001234599	UBC	Ubiquitin C
90	N/A	SA_00517	GGDC	Chicken Genomic DNA Contamination
91	N/A	SA_00104	RTC	Reverse Transcription Control
92	N/A	SA_00104	RTC	Reverse Transcription Control
93	N/A	SA_00104	RTC	Reverse Transcription Control
94	N/A	SA_00103	PPC	Positive PCR Control
95	N/A	SA_00103	PPC	Positive PCR Control
96	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 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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