

RT² Profiler PCR Array (Rotor-Gene® Format)

Chinese Hamster Ovary (CHO) Cell EGF & PDGF Signaling

Cat. no. 330231 PAJJ-040ZR

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 Chinese Hamster Ovary (CHO) Cell EGF / PDGF Signaling RT² Profiler™ PCR Array profiles the expression of 84 genes related to EGF / PDGF-mediated signal transduction. This array includes genes that encode members of the Epidermal Growth Factor (EGF) and Platelet-Derived Growth Factor (PDGF) Signaling Pathways. The array represents growth factors and their receptors, proteins involved in signaling downstream of the growth factors, and the genes targeted by growth factor-mediated stimulation. Members of the MAP Kinase pathway, the AKT / PI3K pathway, and other downstream signaling cascades are included as well. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to EGF / PDGF signaling 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
1	N/A	XM_003498102	Actr2	ARP2 actin-related protein 2 homolog (yeast)
2	N/A	XM_003498742	Akt1	V-akt murine thymoma viral oncogene homolog 1
3	N/A	XM_007618035	Akt2	Thymoma viral proto-oncogene 2
4	N/A	XM_003508130	Akt3	V-akt murine thymoma viral oncogene homolog 3
5	N/A	XM_003515929	Araf	Serine/threonine-protein kinase A-Raf-like
6	N/A	XM_003507834	Atf1	Cyclic AMP-dependent transcription factor ATF-1-like
7	N/A	XM_003498324	Atf2	Activating transcription factor 2
8	N/A	XM_003511281	Bad	BCL2-associated agonist of cell death
9	N/A	XM_007636308	Bcar1	Breast cancer anti-estrogen resistance protein 1-like
10	N/A	XM_007613164	Bcl2	B-cell CLL/lymphoma 2
11	N/A	XM_007623592	Braf	Braf transforming gene
12	N/A	NM_001244046	Casp3	Caspase 3
13	N/A	XM_007633128	Cbl	Casitas B-lineage lymphoma
14	N/A	NM_001244048	Ccnd1	Cyclin D1
15	N/A	XM_007619859	Chuk	Conserved helix-loop-helix ubiquitous kinase
16	N/A	XM_003503960	Col1a1	Collagen, type I, alpha 1
17	N/A	XM_003506920	Creb1	CAMP responsive element binding protein 1
18	N/A	XM_003511492	Csnk2a1	Casein kinase II subunit alpha-like
19	N/A	XM_003508482	Csnk2b	Casein kinase II subunit beta-like
20	N/A	XM_003500819	Dusp1	Dual specificity phosphatase 1
21	N/A	XM_003504321	Dusp6	Dual specificity protein phosphatase 6-like
22	N/A	XM_007613789	Egf	Epidermal growth factor
23	N/A	XM_007637494	Egfr	Epidermal growth factor receptor
24	N/A	XM_003502541	Egr1	Early growth response 1
25	N/A	XM_007630818	Eif4e	Uncharacterized LOC100773768
26	N/A	XM_003507942	Elk1	ELK1, member of ETS oncogene family
27	N/A	XM_003500911	Eps8	Epidermal growth factor receptor pathway substrate 8
28	N/A	XM_003499588	Erbb2	Receptor tyrosine-protein kinase erbB-2-like
29	N/A	XM_003497659	Faslg	Fas ligand (TNF superfamily, member 6)
30	N/A	XM_003509268	Fn1	Fibronectin 1
31	N/A	NM_001246683	Fos	FBJ osteosarcoma oncogene
32	N/A	XM_003496983	Foxo3	Forkhead box protein O3-like
33	N/A	XM_003506286	Gab1	GRB2-associated-binding protein 1-like
34	N/A	XM_003495657	Grb2	Growth factor receptor-bound protein 2
35	N/A	XM_007616698	Gsk3a	Glycogen synthase kinase 3 alpha
36	N/A	XM_007622006	Gsk3b	Glycogen synthase kinase 3 beta
37	N/A	XM_007631708	Hbegf	Heparin-binding epidermal growth factor-like growth factor
38	N/A	XM_003509750	Hras	GTPase HRas-like

Position	UniGene	GenBank	Symbol	Description
39	N/A	XM_003503314	Ikbkb	Inhibitor of nuclear factor kappa-B kinase subunit beta-like
40	N/A	XM_003506764	Il2	Interleukin 2
41	N/A	XM_003508136	Jak1	Janus kinase 1
42	N/A	XM_007610108	Jun	Jun proto-oncogene
43	N/A	XM_003498803	Kras	Kirsten rat sarcoma viral oncogene homolog
44	N/A	NM_001246797	LOC100689370	Caspase-9
45	N/A	XM_003515791	Nfkb1	Nuclear factor kappa B subunit 1
46	N/A	XM_003508488	Lta	Lymphotoxin alpha
47	N/A	NM_001246827	Map2k1	Mitogen-activated protein kinase kinase 1
48	N/A	XM_007613222	Map2k4	Mitogen-activated protein kinase kinase 4
49	N/A	XM_007609658	Map2k7	Dual specificity mitogen-activated protein kinase kinase 7-like
50	N/A	XM_003504201	Map3k2	Mitogen-activated protein kinase kinase kinase 2-like
51	N/A	XM_007624835	Mapk1	Mitogen-activated protein kinase 1
52	N/A	XM_003513867	Mapk10	Mitogen-activated protein kinase 10-like
53	N/A	XM_007616212	Mapk3	Mitogen-activated protein kinase 3-like
54	N/A	XM_003495315	Mapk8	Mitogen-activated protein kinase 8
55	N/A	XM_003505367	Mapk9	Mitogen-activated protein kinase 9
56	N/A	XM_003497398	Mknk1	MAP kinase-interacting serine/threonine kinase 1
57	N/A	XM_007639555	Mmp7	Matrix metallopeptidase 7 (matrilysin, uterine)
58	N/A	XM_007618235	Nck2	Cytoplasmic protein NCK2-like
59	N/A	XM_003504312	Nfatc3	Nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3
60	N/A	XM_003505807	Nras	GTPase NRas-like
61	N/A	XM_003510883	Nup62	Nucleoporin 62
62	N/A	XM_007613704	Pdgfa	Platelet-derived growth factor subunit A-like
63	N/A	XM_003509470	Pdgfb	Platelet-derived growth factor subunit B-like
64	N/A	NM_001260516	Pdgfra	Platelet derived growth factor receptor, alpha polypeptide
65	N/A	XM_003509536	Pdk1	3-phosphoinositide-dependent protein kinase 1-like
66	N/A	XM_003509075	Pik3ca	Phosphatidylinositol 3-kinase, catalytic, alpha polypeptide
67	N/A	XM_003499203	Pik3r1	Phosphatidylinositol 3-kinase regulatory subunit alpha-like
68	N/A	XM_007612902	Pik3r2	Phosphatidylinositol 3-kinase regulatory subunit beta-like
69	N/A	XM_003503315	Plat	Plasminogen activator, tissue
70	N/A	XM_003507684	Plcg1	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1-like
71	N/A	XM_007628611	Ppp2ca	Protein phosphatase 2, catalytic subunit, alpha isozyme
72	N/A	XM_003501851	Prkca	Protein kinase C, alpha
73	N/A	XM_003510310	Pten	Phosphatase and tensin homolog
74	N/A	XM_003507343	Raf1	RAF proto-oncogene serine/threonine-protein kinase-like
75	N/A	XM_003512255	Rap1a	Ras-related protein Rap-1A-like
76	N/A	XM_003505549	Rasa1	Ras GTPase-activating protein 1-like
77	N/A	XM_007634798	Rhoa	Ras homolog family member A
78	N/A	XM_003503811	Rps6kb1	Ribosomal protein S6 kinase beta-1-like

Position	UniGene	GenBank	Symbol	Description
79	N/A	XM_003501596	Shc1	Src homology 2 domain-containing transforming protein C1
80	N/A	XM_003497098	Src	Rous sarcoma oncogene
81	N/A	XM_003511621	Stat1	Signal transducer and activator of transcription 1
82	N/A	XM_003504646	Stat3	Signal transducer and activator of transcription 3
83	N/A	XM_003504645	Stat5a	Signal transducer and activator of transcription 5A
84	N/A	NM_001243976	Tp53	Tumor protein p53
85	N/A	NM_001244575	Actb	Actin, beta
86	N/A	XM_007607973	Actr5	ARP5 actin-related protein 5 homolog (yeast)
87	N/A	NM_001246674	B2m	Beta-2 microglobulin
88	N/A	NM_001244854	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
89	N/A	XM_007623161	Hprt1	Hypoxanthine-guanine phosphoribosyltransferase-like
90	N/A	SA_00519	JGDC	Hamster 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.

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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