

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

EGF/PDGF Signaling Pathway

Cat. no. 330231 PAJJ-040Z

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 Chinese Hamster 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 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	Actr2	Akt1	Akt2	Akt3	Araf	Atf1	Atf2	Bad	Bcar1	Bcl2	Braf	Casp3
B	Cbl	Ccnd1	Chuk	Col1a1	Creb1	Csnk2a1	Csnk2b	Dusp1	Dusp6	Egf	Egfr	Egr1
C	Eif4e	Elk1	Eps8	ErbB2	Faslg	Fn1	Fos	Foxo3	Gab1	Grb2	Gsk3a	Gsk3b
D	Hbegf	Hras	Ikbbk	Il2	Jak1	Jun	Kras	LOC100689370	Nfkb1	Lta	Map2k1	Map2k4
E	Map2k7	Map3k2	Mapk1	Mapk10	Mapk3	Mapk8	Mapk9	Mknk1	Mmp7	Nck2	Nfatc3	Nras
F	Nup62	Pdgfra	Pdgfb	Pdgfra	Pdpk1	Pik3ca	Pik3r1	Pik3r2	Plat	Plcg1	Ppp2ca	Prkca
G	Pten	Raf1	Rap1a	Rasa1	Rhoa	Rps6kb1	Shc1	Src	Stat1	Stat3	Stat5a	Tp53
H	Actb	Actr5	B2m	Copdh	Hprt1	JGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description	Assay
A01	N/A	XM_003498102	Actr2	ARP2 actin-related protein 2 homolog (yeast)	PPJ00801A
A02	N/A	XM_003498742	Akt1	V-akt murine thymoma viral oncogene homolog 1	PPJ14680A
A03	N/A	XM_007618035	Akt2	Thymoma viral proto-oncogene 2	PPJ03929A
A04	N/A	XM_003508130	Akt3	V-akt murine thymoma viral oncogene homolog 3	PPJ06379A
A05	N/A	XM_003515929	Araf	Serine/threonine-protein kinase A-Raf-like	PPJ05832A
A06	N/A	XM_003507834	Atf1	Cyclic AMP-dependent transcription factor ATF-1-like	PPJ16293A
A07	N/A	XM_003498324	Atf2	Activating transcription factor 2	PPJ01215A
A08	N/A	XM_003511281	Bad	BCL2-associated agonist of cell death	PPJ10411A
A09	N/A	XM_007636308	Bcar1	Breast cancer anti-estrogen resistance protein 1-like	PPJ14402A
A10	N/A	XM_007613164	Bcl2	B-cell CLL/lymphoma 2	PPJ17104A
A11	N/A	XM_007623592	Braf	Braf transforming gene	PPJ04533A
A12	N/A	NM_001244046	Casp3	Caspase 3	PPJ00059A
B01	N/A	XM_007633128	Cbl	Casitas B-lineage lymphoma	PPJ01227A
B02	N/A	NM_001244048	Ccnd1	Cyclin D1	PPJ00061A
B03	N/A	XM_007619859	Chuk	Conserved helix-loop-helix ubiquitous kinase	PPJ01162A
B04	N/A	XM_003503960	Col1a1	Collagen, type I, alpha 1	PPJ10095A
B05	N/A	XM_003506920	Creb1	CAMP responsive element binding protein 1	PPJ02647A
B06	N/A	XM_003511492	Csnk2a1	Casein kinase II subunit alpha-like	PPJ09867A
B07	N/A	XM_003508482	Csnk2b	Casein kinase II subunit beta-like	PPJ11675A
B08	N/A	XM_003500819	Dusp1	Dual specificity phosphatase 1	PPJ14691A
B09	N/A	XM_003504321	Dusp6	Dual specificity protein phosphatase 6-like	PPJ12298A
B10	N/A	XM_007613789	Egf	Epidermal growth factor	PPJ17238A
B11	N/A	XM_007637494	Egfr	Epidermal growth factor receptor	PPJ05098A
B12	N/A	XM_003502541	Egr1	Early growth response 1	PPJ08137A
C01	N/A	XM_007630818	Eif4e	Uncharacterized LOC100773768	PPJ16608A
C02	N/A	XM_003507942	Elk1	ELK1, member of ETS oncogene family	PPJ03080A
C03	N/A	XM_003500911	Eps8	Epidermal growth factor receptor pathway substrate 8	PPJ00450A
C04	N/A	XM_003499588	ErbB2	Receptor tyrosine-protein kinase erbB-2-like	PPJ10181A
C05	N/A	XM_003497659	Faslg	Fas ligand (TNF superfamily, member 6)	PPJ16404A
C06	N/A	XM_003509268	Fn1	Fibronectin 1	PPJ00498A
C07	N/A	NM_001246683	Fos	FBJ osteosarcoma oncogene	PPJ00277A
C08	N/A	XM_003496983	Foxo3	Forkhead box protein O3-like	PPJ15105A
C09	N/A	XM_003506286	Gab1	GRB2-associated-binding protein 1-like	PPJ07078A
C10	N/A	XM_003495657	Grb2	Growth factor receptor-bound protein 2	PPJ14758A
C11	N/A	XM_007616698	Gsk3a	Glycogen synthase kinase 3 alpha	PPJ08744A
C12	N/A	XM_007622006	Gsk3b	Glycogen synthase kinase 3 beta	PPJ10627A
D01	N/A	XM_007631708	Hbegf	Heparin-binding epidermal growth factor-like growth factor	PPJ05231A
D02	N/A	XM_003509750	Hras	GTPase HRas-like	PPJ16594A
D03	N/A	XM_003503314	Ikbbk	Inhibitor of nuclear factor kappa-B kinase subunit beta-like	PPJ05326A
D04	N/A	XM_003506764	Il2	Interleukin 2	PPJ08095B
D05	N/A	XM_003508136	Jak1	Janus kinase 1	PPJ01245A
D06	N/A	XM_007610108	Jun	Jun proto-oncogene	PPJ13194A
D07	N/A	XM_003498803	Kras	Kirsten rat sarcoma viral oncogene homolog	PPJ17239A

Position	UniGene	GenBank	Symbol	Description	Assay
D08	N/A	NM_001246797	LOC100689370	Caspase-9	PPJ05220A
D09	N/A	XM_003515791	Nfkb1	Nuclear factor kappa B subunit 1	PPJ04340A
D10	N/A	XM_003508488	Lta	Lymphotoxin alpha	PPJ12636A
D11	N/A	NM_001246827	Map2k1	Mitogen-activated protein kinase kinase 1	PPJ05228A
D12	N/A	XM_007613222	Map2k4	Mitogen-activated protein kinase kinase 4	PPJ04432A
E01	N/A	XM_007609658	Map2k7	Dual specificity mitogen-activated protein kinase kinase 7-like	PPJ07393A
E02	N/A	XM_003504201	Map3k2	Mitogen-activated protein kinase kinase kinase 2-like	PPJ16087A
E03	N/A	XM_007624835	Mapk1	Mitogen-activated protein kinase 1	PPJ09944A
E04	N/A	XM_003513867	Mapk10	Mitogen-activated protein kinase 10-like	PPJ07361A
E05	N/A	XM_007616212	Mapk3	Mitogen-activated protein kinase 3-like	PPJ06724A
E06	N/A	XM_003495315	Mapk8	Mitogen-activated protein kinase 8	PPJ04585A
E07	N/A	XM_003505367	Mapk9	Mitogen-activated protein kinase 9	PPJ03279A
E08	N/A	XM_003497398	Mknk1	MAP kinase-interacting serine/threonine kinase 1	PPJ02297A
E09	N/A	XM_007639555	Mmp7	Matrix metalloproteinase 7 (matrilysin, uterine)	PPJ17240A
E10	N/A	XM_007618235	Nck2	Cytoplasmic protein NCK2-like	PPJ11604A
E11	N/A	XM_003504312	Nfatc3	Nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3	PPJ02527A
E12	N/A	XM_003505807	Nras	GTPase NRas-like	PPJ09014A
F01	N/A	XM_003510883	Nup62	Nucleoporin 62	PPJ04051A
F02	N/A	XM_007613704	Pdgfa	Platelet-derived growth factor subunit A-like	PPJ15636A
F03	N/A	XM_003509470	Pdgfb	Platelet-derived growth factor subunit B-like	PPJ17146A
F04	N/A	NM_001260516	Pdgfra	Platelet derived growth factor receptor, alpha polypeptide	PPJ02369A
F05	N/A	XM_003509536	Pdpk1	3-phosphoinositide-dependent protein kinase 1-like	PPJ16055A
F06	N/A	XM_003509075	Pik3ca	Phosphatidylinositol 3-kinase, catalytic, alpha polypeptide	PPJ00151A
F07	N/A	XM_003499203	Pik3r1	Phosphatidylinositol 3-kinase regulatory subunit alpha-like	PPJ05479A
F08	N/A	XM_007612902	Pik3r2	Phosphatidylinositol 3-kinase regulatory subunit beta-like	PPJ15491A
F09	N/A	XM_003503315	Plat	Plasminogen activator, tissue	PPJ00411A
F10	N/A	XM_003507684	Plcg1	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1-like	PPJ14796A
F11	N/A	XM_007628611	Ppp2ca	Protein phosphatase 2, catalytic subunit, alpha isozyme	PPJ13085A
F12	N/A	XM_003501851	Prkca	Protein kinase C, alpha	PPJ13052A
G01	N/A	XM_003510310	Pten	Phosphatase and tensin homolog	PPJ03153A
G02	N/A	XM_003507343	Raf1	RAF proto-oncogene serine/threonine-protein kinase-like	PPJ14484A
G03	N/A	XM_003512255	Rap1a	Ras-related protein Rap-1A-like	PPJ05872A
G04	N/A	XM_003505549	Rasa1	Ras GTPase-activating protein 1-like	PPJ11382A
G05	N/A	XM_007634798	Rhoa	Ras homolog family member A	PPJ17241A
G06	N/A	XM_003503811	Rps6kb1	Ribosomal protein S6 kinase beta-1-like	PPJ08968A
G07	N/A	XM_003501596	Shc1	Src homology 2 domain-containing transforming protein C1	PPJ02095A
G08	N/A	XM_003497098	Src	Rous sarcoma oncogene	PPJ01718A
G09	N/A	XM_003511621	Stat1	Signal transducer and activator of transcription 1	PPJ01409A
G10	N/A	XM_003504646	Stat3	Signal transducer and activator of transcription 3	PPJ01462A
G11	N/A	XM_003504645	Stat5a	Signal transducer and activator of transcription 5A	PPJ01401A
G12	N/A	NM_001243976	Tp53	Tumor protein p53	PPJ00002A
H01	N/A	NM_001244575	Actb	Actin, beta	PPJ00318A
H02	N/A	XM_007607973	Actr5	ARP5 actin-related protein 5 homolog (yeast)	PPJ03378A
H03	N/A	NM_001246674	B2m	Beta-2 microglobulin	PPJ00271A
H04	N/A	NM_001244854	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase	PPJ00327A
H05	N/A	XM_007623161	Hprt1	Hypoxanthine-guanine phosphoribosyltransferase-like	PPJ14829A
H06	N/A	SA_00519	JGDC	Hamster Genomic DNA Contamination	PPJ00001A
H07	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H08	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H09	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H10	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A
H11	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A
H12	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A

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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