

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

Pig JAK / STAT Signaling Pathway

Cat. no. 330231 PASS-039ZA

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

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 cyclers (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	A2M	AKT1	BCL2L1	CDKN1A	CEBPB	CEBPD	CISH	JUN	CRP	CXCL9	EGFR	EPO
B	EPOR	F2R	FAS	FCER2	FCGR1A	GATA3	GBP1	GBP2	GHR	GRB2	IFNAR1	IFNG
C	IFNGR1	IL10RA	IL10RB	IL20	IL2RG	IL4	IL4R	IL6ST	INSR	IRF1	ISG15	JAK1
D	JAK2	JAK3	JUNB	IRF9	LRG1	MCL1	MPL	MYC	NFKB1	NOS2	NR3C1	OAS1
E	OSM	LOC100524633	PIAS1	PIAS2	PIAS3	PRL	PRLR	PTPN1	PTPN11	PTPRC	SH2B1	SH2B2
F	SIRPA	SMAD1	SMAD2	SMAD3	SMAD4	SOC51	SOC52	SOC53	SOC54	SOC55	SP1	SP11
G	SPRY1	SRC	STAM	STAT1	STAT2	STAT3	STAT4	STAT5A	STAT5B	STUB1	TYK2	USF1
H	ACTB	B2M	GAPDH	HPRT1	RPL13A	SGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description	Assay
A01	Ssc.56900	XM_013988396	A2M	Alpha-2-macroglobulin	PPS01032A
A02	Ssc.19672	NM_001159776	AKT1	V-akt murine thymoma viral oncogene homolog 1	PPS01879A
A03	Ssc.94302	NM_214285	BCL2L1	BCL2-like 1	PPS00844A
A04	Ssc.5737	XM_001929558	CDKN1A	Cyclin-dependent kinase inhibitor 1A (p21, Cip1)	PPS02323A
A05	Ssc.32416	NM_001199889	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta	PPS00675A
A06	Ssc.97280	XM_005663091	CEBPD	CCAAT/enhancer binding protein (C/EBP), delta	PPS08535A
A07	N/A	XM_005674605	CISH	Cytokine inducible SH2-containing protein	PPS71682A
A08	Ssc.94492	NM_213880	JUN	C-JUN protein	PPS00259A
A09	Ssc.16157	NM_213844	CRP	C-reactive protein, pentraxin-related	PPS00207A
A10	Ssc.26146	NM_001114289	CXCL9	Chemokine (C-X-C motif) ligand 9	PPS01982A
A11	Ssc.54725	NM_214007	EGFR	Epidermal growth factor receptor	PPS00410A
A12	Ssc.15896	NM_214134	EPO	Erythropoietin	PPS00577A
B01	Ssc.16355	NM_214292	EPOR	Erythropoietin receptor	PPS00861A
B02	Ssc.81556	NM_001244372	F2R	Coagulation factor II (thrombin) receptor	PPS13764A
B03	Ssc.14497	NM_213839	FAS	Fas (TNF receptor superfamily, member 6)	PPS00194A
B04	Ssc.51682	NM_001145217	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23)	PPS01621A
B05	Ssc.24944	NM_001033011	FCGR1A	Fc fragment of IgG, high affinity Ia, receptor (CD64)	PPS01393A
B06	Ssc.21354	NM_001044567	GATA3	GATA binding protein 3	PPS07936A
B07	Ssc.39535	NM_001128473	GBP1	Guanylate binding protein 1, interferon-inducible	PPS02232A
B08	Ssc.883	NM_001128474	GBP2	Guanylate binding protein 2, interferon-inducible	PPS02634A
B09	Ssc.93799	NM_214254	GHR	Growth hormone receptor	PPS00798A
B10	Ssc.41215	NM_001137628	GRB2	Growth factor receptor-bound protein 2	PPS04410A
B11	Ssc.11381	NM_213772	IFNAR1	Interferon (alpha, beta and omega) receptor 1	PPS00082A
B12	Ssc.4093	NM_213948	IFNG	Interferon-gamma	PPS00334A
C01	Ssc.9565	NM_001177907	IFNGR1	Interferon gamma receptor 1	PPS02330A
C02	Ssc.55412	XM_005656637	IL10RA	Interleukin 10 receptor, alpha	PPS07087A
C03	Ssc.15484	NM_213771	IL10RB	Interleukin 10 receptor, beta	PPS00081A
C04	Ssc.51661	XM_003130465	IL20	Interleukin-20-like	PPS14190B
C05	Ssc.15739	NM_214083	IL2RG	Interleukin 2 receptor, gamma	PPS00494A
C06	Ssc.15837	NM_214123	IL4	Interleukin 4	PPS00559A
C07	Ssc.17244	NM_214340	IL4R	Interleukin 4 receptor	PPS00918A
C08	Ssc.25033	NM_001097432	IL6ST	Interleukin 6 signal transducer (gp130, oncostatin M receptor)	PPS01599A
C09	Ssc.15986	XM_005654749	INSR	Insulin receptor	PPS00155A
C10	Ssc.19494	NM_001097413	IRF1	Interferon regulatory factor 1	PPS00050A
C11	Ssc.11557	NM_001128469	ISG15	ISG15 ubiquitin-like modifier	PPS02161A
C12	Ssc.328	NM_214114	JAK1	Janus kinase 1	PPS00537A
D01	Ssc.324	NM_214113	JAK2	Janus kinase 2	PPS00536A
D02	Ssc.38907	XM_003123500	JAK3	Janus kinase 3	PPS06034A
D03	Ssc.101817	XM_005674483	JUNB	Jun B proto-oncogene	PPS71681A
D04	Ssc.1625	NM_001078670	IRF9	Interferon regulatory factor 9	PPS07959A
D05	Ssc.32074	XM_003123071	LRG1	Leucine-rich alpha-2-glycoprotein-like	PPS15024A
D06	Ssc.95917	NM_214361	MCL1	Myeloid cell leukemia sequence 1 (BCL2-related)	PPS00948A
D07	N/A	XM_013999452	MPL	Myeloproliferative leukemia virus oncogene	PPS07603A

Position	UniGene	GenBank	Symbol	Description	Assay
D08	Ssc.21433	NM_001005154	MYC	V-myc myelocytomatosis viral oncogene homolog (avian)	PPS01222A
D09	Ssc.17816	NM_001048232	NFKB1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	PPS01542A
D10	Ssc.16117	NM_001143690	NOS2	Nitric oxide synthase 2, inducible	PPS00221A
D11	Ssc.15928	NM_001008481	NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	PPS00146A
D12	Ssc.1031	NM_214303	OAS1	2'-5'-oligoadenylate synthetase 1, 40/46kDa	PPS00876A
E01	N/A	XM_001929161	OSM	Oncostatin-M-like	PPS08074B
E02	Ssc.13288	XM_013978679	LOC100524633	Platelet-derived growth factor receptor, alpha polypeptide	PPS14931A
E03	Ssc.5358	XM_003121749	PIAS1	Protein inhibitor of activated STAT, 1	PPS06086A
E04	N/A	XM_003361616	PIAS2	Protein inhibitor of activated STAT, 2	PPS07834A
E05	Ssc.6032	XM_003125792	PIAS3	Protein inhibitor of activated STAT, 3	PPS05010A
E06	Ssc.8204	NM_213926	PRL	Prolactin	PPS00310A
E07	Ssc.27607	NM_001001868	PRLR	Prolactin receptor	PPS01166A
E08	Ssc.16540	NM_001113435	PTPN1	Protein tyrosine phosphatase, non-receptor type 1	PPS00091A
E09	Ssc.78458	XM_013990361	PTPN11	Protein tyrosine phosphatase, non-receptor type 11	PPS04358A
E10	Ssc.18617	XM_003130596	PTPRC	Protein tyrosine phosphatase, receptor type, C	PPS06645A
E11	Ssc.4355	XM_003124516	SH2B1	SH2B adaptor protein 1	PPS05723A
E12	N/A	XM_003480993	SH2B2	SH2B adaptor protein 2	PPS06199A
F01	Ssc.30461	NM_001011508	SIRPA	Signal-regulatory protein alpha	PPS01292A
F02	Ssc.11757	NM_213965	SMAD1	SMAD family member 1	PPS00359A
F03	Ssc.45636	NM_001256148	SMAD2	SMAD family member 2	PPS03354A
F04	Ssc.15913	NM_214137	SMAD3	SMAD family member 3	PPS00587A
F05	Ssc.249	NM_214072	SMAD4	SMAD family member 4	PPS00481A
F06	Ssc.26216	NM_001204768	SOCS1	Suppressor of cytokine signaling 1	PPS04629A
F07	Ssc.6475	NM_001097461	SOCS2	Suppressor of cytokine signaling 2	PPS01636A
F08	Ssc.42668	NM_001123196	SOCS3	Suppressor of cytokine signaling 3	PPS01264A
F09	Ssc.39968	NM_001162889	SOCS4	Suppressor of cytokine signaling 4	PPS04593A
F10	Ssc.28813	NM_001162890	SOCS5	Suppressor of cytokine signaling 5	PPS04594A
F11	N/A	XM_003355406	SP1	Sp1 transcription factor	PPS00636A
F12	Ssc.20177	NM_001001865	SPI1	Spleen focus forming virus (SFFV) proviral integration oncogene spi1	PPS01162A
G01	Ssc.21348	NM_001267835	SPRY1	Sprouty homolog 1, antagonist of FGF signaling (Drosophila)	PPS71683A
G02	N/A	XM_001928614	SRC	V-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)	PPS03087A
G03	Ssc.7928	XM_003130724	STAM	Signal transducing adaptor molecule (SH3 domain and ITAM motif) 1	PPS06730A
G04	Ssc.42622	NM_213769	STAT1	Signal transducer and activator of transcription 1, 91kDa	PPS00079B
G05	Ssc.14520	NM_213889	STAT2	Signal transducer and activator of transcription 2, 113kDa	PPS00269A
G06	Ssc.3409	NM_001044580	STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)	PPS01492A
G07	Ssc.15914	NM_001197305	STAT4	Signal transducer and activator of transcription 4	PPS00588A
G08	Ssc.93778	NM_214290	STAT5A	Signal transducer and activator of transcription 5A	PPS00858A
G09	Ssc.16047	NM_214168	STAT5B	Signal transducer and activator of transcription 5B	PPS00657A
G10	Ssc.55156	XM_003124708	STUB1	E3 ubiquitin-protein ligase CHIP-like	PPS09610A
G11	Ssc.5096	NM_001114670	TYK2	Tyrosine kinase 2	PPS00678A
G12	Ssc.28096	NM_001190245	USF1	Upstream transcription factor 1	PPS03873A
H01	Ssc.10316	XM_003124280	ACTB	Actin, beta	PPS71698A
H02	Ssc.73773	NM_213978	B2M	Beta-2-microglobulin	PPS00376A
H03	Ssc.16135	NM_001206359	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPS00192A
H04	Ssc.4158	NM_001032376	HPRT1	Hypoxanthine phosphoribosyltransferase 1	PPS00668B
H05	Ssc.27927	NM_001244068	RPL13A	Ribosomal protein L13a	PPS01574A
H06	N/A	SA_00133	SGDC	Pig Genomic DNA Contamination	PPS71596A
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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