

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

RT² Profiler™ PCR Array Dog Parkinson's Disease

Cat. no. 330231 PAFD-124Z

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 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	ALDH1A1	APC	APP	ATP2B2	ATXN2	ATXN3	BASP1	BDNF	CADPS	CASP3	CASP4	CASP7
B	CASP8	CASP9	CDC27	CDC42	CDH8	CHGB	CIRBP	CUL2	CXXC1	DDC	DLK1	DRD2
C	EGLN1	FBXO9	FGF13	FN1	GABBR2	GBE1	GPR37	GRIA3	HMGCS1	HSPA4	HTR2A	KCNJ6
D	LOC479096	LOC490812	LRRK2	MAPK9	MAPT	NCOA1	NEFL	NFASC	NR4A2	NSF	NTRK2	OPA1
E	PAN2	PARK7	PPID	PPP2R1B	PRDX2	PSEN2	PTEN	RG54	RTN1	S100B	SEPT5	SKP1
F	SLC18A2	SLC25A4	SLC6A3	SLIT1	SNCA	SRSF7	STUB1	SV2B	SYNGR3	SYT1	SYT11	TCF7L2
G	TH	TPBG	UBA1	UBC	UBE2I	UBE2K	UBE2L3	UCHL1	USP34	VAMP1	VDAC3	YWHAZ
H	ACTB	B2M	GAPDH	HPRT1	RPL1	FGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description	Assay
A01	Cfa.1715	NM_001286977	ALDH1A1	Aldehyde dehydrogenase 1 family, member A1	PPF01977A
A02	N/A	XM_014111995	APC	Adenomatous polyposis coli	PPF03806A
A03	Cfa.24091	NM_001006601	APP	Amyloid beta (A4) precursor protein	PPF00016A
A04	N/A	XM_003432745	ATP2B2	ATPase, Ca++ transporting, plasma membrane 2	PPF02114A
A05	N/A	XM_014107737	ATXN2	Ataxin 2	PPF07923A
A06	N/A	XM_005623161	ATXN3	Ataxin 3	PPF04530A
A07	N/A	XM_005619422	BASP1	Brain abundant, membrane attached signal protein 1	PPF13729A
A08	Cfa.170	NM_001002975	BDNF	Brain-derived neurotrophic factor	PPF00062A
A09	N/A	XM_014121992	CADPS	Ca++-dependent secretion activator	PPF07021A
A10	Cfa.84	NM_001003042	CASP3	Caspase 3, apoptosis-related cysteine peptidase	PPF00153A
A11	Cfa.3589	NM_001003125	CASP4	Caspase 4, apoptosis-related cysteine peptidase	PPF00299A
A12	N/A	XM_005637738	CASP7	Caspase 7, apoptosis-related cysteine peptidase	PPF08275A
B01	Cfa.24658	NM_001048029	CASP8	Caspase 8, apoptosis-related cysteine peptidase	PPF09114A
B02	Cfa.20874	NM_001031633	CASP9	Caspase 9, apoptosis-related cysteine peptidase	PPF08596A
B03	N/A	XM_005624186	CDC27	Cell division cycle 27 homolog (S. cerevisiae)	PPF10568A
B04	Cfa.39956	NM_001003254	CDC42	Cell division cycle 42 (GTP binding protein, 25kDa)	PPF00486A
B05	N/A	XM_546896	CDH8	Cadherin 8, type 2	PPF09915A
B06	N/A	XM_005634808	CHGB	Chromogranin B (secretogranin 1)	PPF02537A
B07	N/A	XM_005633145	CIRBP	Cold inducible RNA binding protein	PPF02276A
B08	N/A	XM_005616937	CUL2	Cullin 2	PPF03040A
B09	N/A	XM_005623104	CXXC1	CXXC finger protein 1	PPF04524A
B10	N/A	XM_005630904	DDC	Dopa decarboxylase (aromatic L-amino acid decarboxylase)	PPF11256A
B11	N/A	XM_547982	DLK1	Delta-like 1 homolog (Drosophila)	PPF10537A
B12	Cfa.3562	NM_001003110	DRD2	Dopamine receptor D2	PPF00277A
C01	N/A	XM_546089	EGLN1	Egl nine homolog 1 (C. elegans)	PPF09404A
C02	Cfa.4135	NM_001160299	FBXO9	F-box protein 9	PPF01084A
C03	N/A	XM_005641878	FGF13	Fibroblast growth factor 13	PPF11148A
C04	Cfa.47867	XM_014110981	FN1	Fibronectin 1	PPF00409A
C05	N/A	XM_538749	GABBR2	Gamma-aminobutyric acid (GABA) B receptor, 2	PPF05339A
C06	N/A	XM_535555	GBE1	Glucan (1,4-alpha-), branching enzyme 1	PPF03318A
C07	N/A	XM_539394	GPR37	G protein-coupled receptor 37 (endothelin receptor type B-like)	PPF05704A
C08	N/A	XM_005641767	GRIA3	Glutamate receptor, ionotropic, AMPA 3	PPF11121A
C09	N/A	XM_005619343	HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble)	PPF03943A
C10	Cfa.19900	NM_001048016	HSPA4	Heat shock 70kDa protein 4	PPF00914A
C11	Cfa.8880	NM_001005869	HTR2A	5-hydroxytryptamine (serotonin) receptor 2A	PPF00443A
C12	N/A	XM_544881	KCNJ6	Potassium inwardly-rectifying channel, subfamily J, member 6	PPF08777A
D01	N/A	XM_536243	LOC479096	Similar to neuron specific gene family member 1	PPF14505A
D02	N/A	XM_014115700	LOC490812	Neurexin 3	PPF15851A
D03	N/A	XM_543734	LRRK2	Leucine-rich repeat kinase 2	PPF08109A
D04	N/A	XM_851205	MAPK9	Mitogen-activated protein kinase 9	PPF00896A
D05	Cfa.6505	NM_001110801	MAPT	Microtubule-associated protein tau	PPF04692A
D06	Cfa.47921	XM_005630198	NCOA1	Nuclear receptor coactivator 1	PPF01563A
D07	N/A	XM_534572	NEFL	Neurofilament, light polypeptide	PPF02683A
D08	N/A	XM_003434326	NFASC	Neurofascin	PPF09175A
D09	N/A	XM_005640189	NR4A2	Nuclear receptor subfamily 4, group A, member 2	PPF03553A

Position	UniGene	GenBank	Symbol	Description	Assay
D10	N/A	XM_005624201	NSF	N-ethylmaleimide-sensitive factor	PPF10567A
D11	N/A	XM_541264	NTRK2	Neurotrophic tyrosine kinase, receptor, type 2	PPF06707A
D12	N/A	XM_005634622	OPA1	Optic atrophy 1 (autosomal dominant)	PPF02514A
E01	N/A	XM_005625500	PAN2	PAN2 poly(A) specific ribonuclease subunit homolog (S. cerevisiae)	PPF00723A
E02	N/A	XM_536733	PARK7	Parkinson protein 7	PPF04112A
E03	N/A	XM_532704	PPID	Peptidylprolyl isomerase D	PPF01437A
E04	N/A	XM_014113423	PPP2R1B	Protein phosphatase 2, regulatory subunit A, beta	PPF04006A
E05	N/A	XM_542042	PRDX2	Peroxiredoxin 2	PPF07162A
E06	Cfa.9548	NM_001284465	PSEN2	Presenilin 2 (Alzheimer disease 4)	PPF10285A
E07	Cfa.3695	NM_001003192	PTEN	Phosphatase and tensin homolog	PPF00398A
E08	N/A	XM_003434310	RGS4	Regulator of G-protein signaling 4	PPF09232A
E09	N/A	NM_001007131	RTN1	Reticulon 1	PPF00705A
E10	N/A	XM_548737	S100B	S100 calcium binding protein B	PPF10897A
E11	N/A	XM_005636587	SEPT5	Septin 5	PPF08005A
E12	Cfa.45285	NM_001252408	SKP1	S-phase kinase-associated protein 1	PPF00916A
F01	N/A	XM_544038	SLC18A2	Solute carrier family 18 (vesicular monoamine), member 2	PPF08284A
F02	N/A	XM_532844	SLC25A4	Solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	PPF01529A
F03	Cfa.22997	NM_001136500	SLC6A3	Solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	PPF12261B
F04	N/A	XM_005637583	SLIT1	Slit homolog 1 (Drosophila)	PPF08223A
F05	N/A	XM_005639186	SNCA	Synuclein, alpha (non A4 component of amyloid precursor)	PPF03381A
F06	N/A	XM_003432189	SRSF7	Serine/arginine-rich splicing factor 7	PPF01593A
F07	N/A	XM_005621746	STUB1	STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase	PPF04307A
F08	N/A	XM_005618329	SV2B	Synaptic vesicle glycoprotein 2B	PPF09259A
F09	N/A	XM_005622093	SYNGR3	Synaptogyrin 3	PPF10104A
F10	N/A	XM_539696	SYT1	Synaptotagmin I	PPF05858A
F11	N/A	XM_005622720	SYT11	Synaptotagmin XI	PPF10309A
F12	N/A	XM_005637736	TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)	PPF08274A
G01	Cfa.3446	NM_001002966	TH	Tyrosine hydroxylase	PPF00048A
G02	Cfa.11304	XM_539020	TPBG	Trophoblast glycoprotein	PPF05508A
G03	N/A	XM_014111384	UBA1	Ubiquitin-like modifier activating enzyme 1	PPF04919A
G04	N/A	XM_847967	UBC	Ubiquitin C	PPF12746A
G05	N/A	XM_005621732	UBE2I	Ubiquitin-conjugating enzyme E2I	PPF10837A
G06	N/A	XM_003434394	UBE2K	Ubiquitin-conjugating enzyme E2K	PPF12350A
G07	N/A	XM_005636619	UBE2L3	Ubiquitin-conjugating enzyme E2L 3	PPF02796A
G08	N/A	XM_014112350	UCHL1	Ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	PPF03781A
G09	N/A	XM_014117553	USP34	Ubiquitin specific peptidase 34	PPF00865A
G10	N/A	XM_005637250	VAMP1	Vesicle-associated membrane protein 1 (synaptobrevin 1)	PPF08175A
G11	Cfa.39377	NM_001251965	VDAC3	Voltage-dependent anion channel 3	PPF01423A
G12	N/A	XM_014118550	YWHAZ	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	PPF01687A
H01	Cfa.17735	NM_001195845	ACTB	Actin, beta	PPF12880A
H02	N/A	XM_535458	B2M	Beta-2-microglobulin	PPF03253A
H03	Cfa.36213	NM_001003142	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPF00328A
H04	Cfa.4551	NM_001003357	HPRT1	Hypoxanthine phosphoribosyltransferase 1	PPF00602A
H05	N/A	XM_014109387	RPLP1	Ribosomal protein, large, P1	PPF03305A
H06	N/A	SA_00130	FGDC	Dog Genomic DNA Contamination	PPF68934A
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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