

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

Skeletal Muscle: Myogenesis & Myopathy

Cat. no. 330231 PASS-099ZA

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	ACTA1	ACTN3	ACVR2B	ADIPOQ	ADRB2	AGRN	AKT1	AKT2	ATP2A1	BCL2	BMP4	CAMK2G
B	CAPN2	CAPN3	CASP3	CAST	CAV1	CAV3	CRYAB	CS	CTNNB1	DAG1	DES	DMD
C	DMPK	DYSF	FBXO32	FGF2	FOXO1	FOXO3	HDAC5	HK2	IGF1	IGF2	IGFBP3	IGFBP5
D	IKKB	IL1B	IL6	LEP	LMNA	MAPK1	MAPK14	MAPK3	MAPK8	MB	MEF2C	MMP9
E	MSTN	MUSK	MYF5	MYF6	MYH1	MYH2	MYOD1	MYOG	MYOT	NEB	NFKB1	NOS2
F	PAX3	PAX7	PDK4	PPARG	PPARGC1A	PPARGC1B	PPP3CA	PRKAA1	PRKAB2	PRKAG1	PRKAG3	RHOA
G	RPS6KB1	SGCA	SLC2A4	TGFB1	TNF	TNNC1	TNNI2	TNNT1	TNNT3	TRIM63	TTN	UTRN
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.37707	NM_001167795	ACTA1	Actin, alpha 1, skeletal muscle	PPS03003A
A02	N/A	XM_003122492	ACTN3	Alpha-actinin-3	PPS71806A
A03	Ssc.42773	NM_001005350	ACVR2B	Activin A receptor, type IIB	PPS01227A
A04	Ssc.18549	NM_214370	ADIPOQ	Adiponectin, C1Q and collagen domain containing	PPS00960B
A05	Ssc.16077	NM_001128436	ADRB2	Adrenergic, beta-2-, receptor, surface	PPS00672A
A06	N/A	XM_013995626	AGRN	Agrin	PPS71807A
A07	Ssc.19672	NM_001159776	AKT1	V-akt murine thymoma viral oncogene homolog 1	PPS01879A
A08	Ssc.43170	NM_001256779	AKT2	V-akt murine thymoma viral oncogene homolog 2	PPS71644A
A09	Ssc.55270	NM_001204393	ATP2A1	ATPase, Ca++ transporting, cardiac muscle, fast twitch 1	PPS05754A
A10	Ssc.53633	XM_003121700	BCL2	B-cell CLL/lymphoma 2	PPS01748A
A11	Ssc.16690	NM_001101031	BMP4	Bone morphogenetic protein 4	PPS01776A
A12	Ssc.49878	NM_214193	CAMK2G	Calcium/calmodulin-dependent protein kinase II gamma	PPS00706A
B01	Ssc.49836	NM_001100188	CAPN2	Calpain 2, (m/II) large subunit	PPS00705A
B02	Ssc.16057	NM_214171	CAPN3	Calpain 3	PPS00666A
B03	Ssc.15886	NM_214131	CASP3	Caspase 3, apoptosis-related cysteine peptidase	PPS00573A
B04	Ssc.31703	NM_214067	CAST	Calpastatin	PPS00474A
B05	Ssc.12842	NM_214438	CAV1	Caveolin 1, caveolae protein, 22kDa	PPS01052A
B06	Ssc.45473	NM_001037149	CAV3	Caveolin 3	PPS01412A
B07	N/A	XM_003357294	CRYAB	Crystallin, alpha B	PPS06214A
B08	Ssc.16315	NM_214276	CS	Citrate synthase	PPS00828A
B09	Ssc.25839	NM_214367	CTNNB1	Catenin (cadherin-associated protein), beta 1, 88kDa	PPS00957A
B10	N/A	XM_013986645	DAG1	Dystroglycan	PPS15726A
B11	Ssc.24	NM_001001535	DES	Desmin	PPS00134A
B12	Ssc.42754	NM_001012408	DMD	Dystrophin	PPS01311A
C01	Ssc.29148	XM_013992285	DMPK	Dystrophin myotonic-protein kinase	PPS18899A
C02	Ssc.101547	XM_013996038	DYSF	Dysferlin	PPS14208A
C03	Ssc.4368	NM_001044588	FBXO32	F-box protein 32	PPS01499B
C04	Ssc.17772	XM_013978917	FGF2	Fibroblast growth factor 2 (basic)	PPS00943A
C05	Ssc.73	NM_214014	FOXO1	Forkhead box O1	PPS00417A
C06	Ssc.42672	NM_001135959	FOXO3	Forkhead box O3	PPS01478A
C07	Ssc.4125	XM_013980921	HDAC5	Histone deacetylase 5	PPS11239A
C08	Ssc.42680	NM_001122987	HK2	Hexokinase 2	PPS01288A
C09	Ssc.16231	NM_214256	IGF1	Insulin-like growth factor 1 (somatomedin C)	PPS00801A
C10	Ssc.9365	NM_213883	IGF2	Insulin-like growth factor 2 (somatomedin A)	PPS00262A
C11	Ssc.42774	NM_001005156	IGFBP3	Insulin-like growth factor binding protein 3	PPS01224A
C12	Ssc.94196	NM_214099	IGFBP5	Insulin-like growth factor binding protein 5	PPS00520A
D01	Ssc.31350	NM_001099935	IKKB	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	PPS01751A
D02	Ssc.28829	NM_214055	IL1B	Interleukin 1 beta	PPS00461B
D03	Ssc.62	NM_214399	IL6	Interleukin 6 (interferon, beta 2)	PPS00991A
D04	Ssc.265	NM_213840	LEP	Leptin	PPS00198A
D05	Ssc.944	NM_001111257	LMNA	Lamin A/C	PPS01878A
D06	Ssc.72142	NM_001198922	MAPK1	Extracellular signal-regulated kinase-2	PPS02890A
D07	Ssc.11018	XM_001929490	MAPK14	Mitogen-activated protein kinase 14	PPS03781A
D08	Ssc.5924	XM_013991188	MAPK3	Mitogen-activated protein kinase 3	PPS01180A

Position	UniGene	GenBank	Symbol	Description	Assay
D09	Ssc.83372	XM_003359272	MAPK8	Mitogen-activated protein kinase 8	PPS00049A
D10	Ssc.715	NM_214236	MB	Myoglobin	PPS00778A
D11	Ssc.34788	NM_001044540	MEF2C	Myocyte enhancer factor 2C	PPS01455A
D12	Ssc.4086	NM_001038004	MMP9	Matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	PPS01420A
E01	Ssc.23498	NM_214435	MSTN	Myostatin	PPS01003A
E02	N/A	XM_013993747	MUSK	Muscle, skeletal receptor tyrosine-protein kinase	PPS11222A
E03	Ssc.27397	NM_001278775	MYF5	Myogenic factor 5	PPS08372A
E04	Ssc.16626	NM_001244672	MYF6	Myogenic factor 6 (herculin)	PPS00348A
E05	Ssc.15909	NM_001104951	MYH1	Myosin, heavy chain 1, skeletal muscle, adult	PPS01806A
E06	Ssc.84856	NM_214136	MYH2	Myosin, heavy chain 2, skeletal muscle, adult	PPS00584A
E07	Ssc.22906	NM_001002824	MYOD1	Myogenic differentiation 1	PPS01078A
E08	Ssc.42756	NM_001012406	MYOG	Myogenin (myogenic factor 4)	PPS01307A
E09	Ssc.50438	NM_001099941	MYOT	Myotilin	PPS01758A
E10	Ssc.93211	XM_013990615	NEB	Nebulin-like	PPS11585A
E11	Ssc.17816	NM_001048232	NFKB1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	PPS01542A
E12	Ssc.16117	NM_001143690	NOS2	Nitric oxide synthase 2, inducible	PPS00221A
F01	Ssc.27600	XM_013986841	PAX3	Paired box protein Pax-3	PPS01154A
F02	N/A	XM_013991732	PAX7	Paired box protein Pax-7-like	PPS71847A
F03	Ssc.1121	NM_001159306	PDK4	Pyruvate dehydrogenase kinase, isozyme 4	PPS04531A
F04	Ssc.14475	NM_214379	PPARG	Peroxisome proliferator-activated receptor gamma	PPS00971A
F05	Ssc.16864	NM_213963	PPARGC1A	Peroxisome proliferator activated receptor gamma, coactivator 1 alpha	PPS00356B
F06	Ssc.78540	XM_013995328	PPARGC1B	Peroxisome proliferator-activated receptor gamma, coactivator 1 beta	PPS04687A
F07	Ssc.94720	NM_214128	PPP3CA	Protein phosphatase 3, catalytic subunit, alpha isozyme	PPS00570A
F08	Ssc.26892	NM_001167633	PRKAA1	Protein kinase, AMP-activated, alpha 1 catalytic subunit	PPS02163A
F09	Ssc.23789	NM_001243683	PRKAB2	Protein kinase, AMP-activated, beta 2 non-catalytic subunit	PPS04163A
F10	Ssc.26338	NM_001001642	PRKAG1	Protein kinase, AMP-activated, gamma 1 non-catalytic subunit	PPS01141A
F11	Ssc.287	NM_214077	PRKAG3	Protein kinase, AMP-activated, gamma 3 non-catalytic subunit	PPS00487A
F12	Ssc.7096	NM_001244437	RHOA	Ras homolog family member A	PPS07895A
G01	Ssc.22127	XM_003131671	RPS6KB1	Ribosomal protein S6 kinase, 70kDa, polypeptide 1	PPS01896A
G02	Ssc.48089	NM_001144122	SGCA	Sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein)	PPS04493A
G03	Ssc.15984	NM_001128433	SLC2A4	Solute carrier family 2 (facilitated glucose transporter), member 4	PPS00154A
G04	Ssc.76	NM_214015	TGFB1	Transforming growth factor, beta 1	PPS00418A
G05	Ssc.100	NM_214022	TNF	Tumor necrosis factor	PPS00426A
G06	Ssc.3085	NM_001130243	TNNC1	Troponin C type 1 (slow)	PPS03726A
G07	Ssc.56814	NM_001032359	TNNI2	Troponin I type 2 (skeletal, fast)	PPS01388A
G08	Ssc.7535	NM_213748	TNNT1	Troponin T type 1 (skeletal, slow)	PPS00024A
G09	Ssc.18535	NM_001001863	TNNT3	Troponin T type 3 (skeletal, fast)	PPS01158A
G10	Ssc.61531	NM_001184756	TRIM63	Tripartite motif containing 63	PPS04761A
G11	Ssc.19448	XM_005657567	TTN	Titin-like	PPS12973A
G12	N/A	XM_005659165	UTRN	Utrophin	PPS06734A
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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