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

Mouse Neuronal Ion Channels

Cat. no. 330231 PAMM-036ZA

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™



Description

The Mouse Neuronal Ion Channels RT² Profiler PCR Array was developed to profile expression of a panel of 84 genes encoding neuroscience-related ion channels and transporters. The genes represented on the array are listed below, grouped according to their functional and structural features. Included are calcium channels, potassium channels, sodium channels, chloride channels, and transporters. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to the neuronal ion channels and transporters 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 RT^2 Profiler PCR Array Handbook for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
А	Accn1	Accn2	Accn3	Best1	Cacnala	Cacna 1b	Cacnalc	Cacna1d	Cacna1g	Cacnali	Cacnb1	Cacnb2
В	Cacnb3	Cacng2	Cacng4	Clcn2	Clcn3	Clcn7	Hcn1	Hcn2	Kcna1	Kcna2	Kcna5	Kcna6
с	Kcnab1	Kcnab2	Kcnab3	Kcnb1	Kcnb2	Kcnc1	Kcnc2	Kcnd2	Kcnd3	Kcnh1	Kcnh2	Kcnh3
D	Kcnh6	Kcnh7	Kcnj1	Kenj11	Kcnj12	Kcnj13	Kcnj14	Kcnj15	Kcnj16	Kcnj2	Kcnj3	Kcnj4
Е	Kcnj5	Kcnj6	Kcnj9	Kcnk1	Kcnma1	Kcnmb4	Kcnn1	Kcnn2	Kcnn3	Kenq1	Kcnq2	Kenq3
F	Kcns1	Ryr3	Scn10a	Scn11a	Scnla	Scn1b	Scn2a1	Scn2b	Scn3a	Scn8a	Scn9a	Slc12a5
G	Trpa1	Trpc1	Trpc3	Trpc6	Trpm1	Trpm2	Trpm6	Trpm8	Trpv1	Trpv2	Trpv3	Trpv4
н	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.234998	NM_007384	Accn1	Amiloride-sensitive cation channel 1, neuronal (degenerin)
A02	Mm.440107	NM_009597	Accn2	Amiloride-sensitive cation channel 2, neuronal
A03	Mm.299636	NM_183000	Accn3	Amiloride-sensitive cation channel 3
A04	Mm.31577	NM_011913	Best 1	Bestrophin 1
A05	Mm.334658	NM_007578	Cacna1a	Calcium channel, voltage-dependent, P/Q type, alpha 1A subunit
A06	Mm.4424	NM_007579	Cacna1b	Calcium channel, voltage-dependent, N type, alpha 1B subunit
A07	Mm.436656	NM_009781	Cacna1c	Calcium channel, voltage-dependent, L type, alpha 1C subunit
A08	Mm.9772	NM_028981	Cacna1d	Calcium channel, voltage-dependent, L type, alpha 1D subunit
A09	Mm.29585	NM_009783	Cacna1g	Calcium channel, voltage-dependent, T type, alpha 1G subunit
A10	Mm.291058	NM_001044308	Cacna 1 i	Calcium channel, voltage-dependent, alpha 11 subunit
A11	Mm.41252	NM_031173	Cacnb1	Calcium channel, voltage-dependent, beta 1 subunit
A12	Mm.313930	NM_023116	Cacnb2	Calcium channel, voltage-dependent, beta 2 subunit
B01	Mm.3544	NM_007581	Cacnb3	Calcium channel, voltage-dependent, beta 3 subunit
B02	Mm.277338	NM_007583	Cacng2	Calcium channel, voltage-dependent, gamma subunit 2
B03	Mm.103724	NM_019431	Cacng4	Calcium channel, voltage-dependent, gamma subunit 4
B04	Mm.177761	NM_009900	Clcn2	Chloride channel 2
B05	Mm.259751	NM_007711	Clcn3	Chloride channel 3
B06	Mm.270587	NM_011930	Clcn7	Chloride channel 7
B07	Mm.343429	NM_010408	Hcn1	Hyperpolarization-activated, cyclic nucleotide-gated K+ 1
B08	Mm.12956	NM_008226	Hcn2	Hyperpolarization-activated, cyclic nucleotide-gated K+ 2
B09	Mm.40424	NM_010595	Kcna1	Potassium voltage-gated channel, shaker-related subfamily, member 1
B10	Mm.56930	NM_008417	Kcna2	Potassium voltage-gated channel, shaker-related subfamily, member 2
B11	Mm.222831	NM_145983	Kcna5	Potassium voltage-gated channel, shaker-related subfamily, member 5
B12	Mm.62535	NM_013568	Kcna6	Potassium voltage-gated channel, shaker-related, subfamily, member 6
C01	Mm.316402	NM_010597	Kcnab1	Potassium voltage-gated channel, shaker-related subfamily, beta member 1
C02	Mm.388924	NM_010598	Kcnab2	Potassium voltage-gated channel, shaker-related subfamily, beta member 2
C03	Mm.232472	NM_010599	Kcnab3	Potassium voltage-gated channel, shaker-related subfamily, beta member 3
C04	Mm.387390	NM_008420	Kcnb1	Potassium voltage gated channel, Shab-related subfamily, member 1
C05	Mm.156081	NM_001098528	Kcnb2	Potassium voltage gated channel, Shab-related subfamily, member 2
C06	Mm.249386	NM_008421	Kcnc1	Potassium voltage gated channel, Shaw-related subfamily, member 1
C07	Mm.336242	NM_001025581	Kcnc2	Potassium voltage gated channel, Shaw-related subfamily, member 2
C08	Mm.320691	NM_019697	Kcnd2	Potassium voltage-gated channel, Shal-related family, member 2
C09	Mm.44530	NM_019931	Kcnd3	Potassium voltage-gated channel, Shal-related family, member 3
C10	Mm.4489	NM_010600	Kcnh1	Potassium voltage-gated channel, subfamily H (eag-related), member 1
C11	Mm.6539	NM_013569	Kcnh2	Potassium voltage-gated channel, subfamily H (eag-related), member 2
C12	Mm.374793	NM_010601	Kcnh3	Potassium voltage-gated channel, subfamily H (eag-related), member 3
D01	Mm.343850	NM_001037712	Kcnh6	Potassium voltage-gated channel, subfamily H (eag-related), member 6
D02	Mm.242532	NM_133207	Kcnh7	Potassium voltage-gated channel, subfamily H (eag-related), member 7
D03	Mm.390168	NM_019659	Kcnj1	Potassium inwardly-rectifying channel, subfamily J, member 1
D04	Mm.333863	NM_010602	Kcnj11	Potassium inwardly rectifying channel, subfamily J, member 11
D05	Mm.4970	NM_010603	Kcnj12	Potassium inwardly-rectifying channel, subfamily J, member 12
D06	Mm.443539	NM_001110227	Kcnj13	Potassium inwardly-rectifying channel, subfamily J, member 13
D07	Mm.68170	NM_145963	Kcnj14	Potassium inwardly-rectifying channel, subfamily J, member 14
D08	Mm.272239	NM_019664	Kcnj15	Potassium inwardly-rectifying channel, subfamily J, member 15
D09	Mm.30176	NM_010604	Kcnj16	Potassium inwardly-rectifying channel, subfamily J, member 16

D10	Position	UniGene	GenBank	Symbol	Description
D11	D10	Mm.4951	NM 008425	Kcni2	Potassium inwardly-rectifying channel, subfamily J. member 2
D12	D11		NM 008426		, , , , , , , , , , , , , , , , , , , ,
Folia			_		, , , , , , , , , , , , , , , , , , , ,
FO2					
E03					, , , ,
E04 Mm.18000 NM_008430 Kenki Potassium channel, subfamily K, member 1 E05 Mm.343607 NM_010610 Kcnmbl E06 Mm.440652 NM_021452 Kcnmb4 Potassium large conductance calcium-activated channel, subfamily M, alpha member 1 E07 Mm.32074 NM_032397 Kcnnl E08 Mm.458654 NM_080465 Kcnn2 Potassium intermediatel/small conductance calcium-activated channel, subfamily M, beta member 4 E08 Mm.458654 NM_080465 Kcnn2 Potassium intermediatel/small conductance calcium-activated channel, subfamily N, member 1 E09 Mm.120250 NM_080466 Kcnn3 Potassium intermediatel/small conductance calcium-activated channel, subfamily N, member 1 E10 Mm.439769 NM_080444 Kcnn1 Potassium intermediatel/small conductance calcium-activated channel, subfamily N, member 2 E11 Mm.25585 NM_05293 Kcnn1 Potassium valtage-gated channel, subfamily Q, member 2 E12 Mm.25585 NM_05293 Kcnn1 Kcnn2 Potassium valtage-gated channel, subfamily Q, member 2 E13 Mm.247042 NM_0706134 Kcnn1 Kcnn2 Potassium valtage-gated channel, subfamily Q, member 3 E09 Mm.247042 NM_0706134 Scn100 Sodium channel, valtage-gated channel, subfamily Q, member 3 E00 Mm.247042 NM_0706134 Scn100 Sodium channel, valtage-gated, ype N, glpha E01 Mm.43970 NM_011887 Scn1 lo Sodium channel, valtage-gated, ype N, glpha E08 Mm.247042 NM_011887 Scn1 lo Sodium channel, valtage-gated, ype N, glpha E09 Mm.23973 NM_0118673 Scn1 lo Sodium channel, valtage-gated, ype N, glpha E09 Mm.23973 NM_0118673 Scn2 lo Sodium channel, valtage-gated, ype N, glpha E09 Mm.23973 NM_0118673 Scn2 lo Sodium channel, valtage-gated, ype N, glpha E00 Mm.248074 NM_018873 Scn2 lo Sodium channel, valtage-gated, ype N, glpha E00 Mm.248074 NM_018873 Scn2 lo Sodium channel, valtage-gated, ype N, glpha E00 Mm.29973 NM_001047749 Scn2 Scn2 Sodium channel, valtage-gated, ype N, glpha E00 Mm.29978 NM_001047749 Scn2 Scn2 Sodium channel, valtage-gated, ype N, glpha E00 Mm.298074 NM_001077499 Scn2 Scn2 Sodium channel, valtage-gated, ype N, glpha E00 Mm.298074 NM_00107499 Scn2 Scn2 Scdium channel, valtage-gated, ype N, glpha E00					, , , , , , , , , , , , , , , , , , , ,
Potassium large conductance calcium—activated channel, subfamily M, alpha member 1					, , , ,
E05	LU4	74111.10000	14/4_000430	KCIKI	
Potassium intermediate/small conductance colcium-activated channel, subfamily N, member 1 Potassium intermediate/small conductance colcium-activated channel, subfamily N, member 1 Potassium intermediate/small conductance colcium-activated channel, subfamily N, member 2 Potassium intermediate/small conductance colcium-activated channel, subfamily N, member 3 Potassium intermediate/small conductance colcium-activated channel, subfamily N, member 3 Potassium intermediate/small conductance colcium-activated channel, subfamily N, member 3 Potassium veltage-gated channel, subfamily Q, member 1 Potassium veltage-gated channel, subfamily Q, member 1 Potassium veltage-gated channel, subfamily Q, member 2 Potassium veltage-gated channel, subfamily Q, member 3 Potassium veltage-gated channel, veltage-gated, ype X, alpha Potassium veltage-gated channel, veltage-gated, ype X, alpha Potassium veltage-gated veltage potassium veltage-gated, ype X, alpha Potassium veltage-gate	E05	Mm.343607	NM_010610	Kcnma1	, , , , ,
E08	E06	Mm.440652	NM_021452	Kcnmb4	
F08	E07	Mm.32074	NM_032397	Kcnn1	
E10	E08	Mm.458654	NM_080465	Kcnn2	, ,
E11	E09	Mm.120250	NM_080466	Kcnn3	
F12	E10	Mm.439769	NM_008434	Kcnq1	Potassium voltage-gated channel, subfamily Q, member 1
F12	E11	Mm.40615	NM_010611		
F01 Mm.6217 NM_008435 Kcns1 K+ voltage-gated channel, subfamily S, 1	E12	Mm.255585	NM 152923		,
F02 Mm.436657 NM_177652 Ryr3 Ryanodine receptor 3	F01	Mm.6217			
F03	F02				
F04 Mm.89981 NM_011887 Scn11a Sodium channel, voltage-gated, type XI, alpha					, ,
F05 Mm.439704 NM_018733 Scn1a Sodium channel, voltage-gated, type I, alpha					
F06 Mm.1418 NM_011322 Scn1b Sodium channel, voltage-gated, type II, alpha 1			_		
F07					
F08					
F09 Mm.330256 NM_018732 Scn3a Sodium channel, voltage-gated, type III, alpha			_		
F10			_		
F11					
F12			_		
G01 Mm.186329 NM_177781 Trpa1 Transient receptor potential cation channel, subfamily A, member 1 G02 Mm.149633 NM_011643 Trpc1 Transient receptor potential cation channel, subfamily C, member 1 G03 Mm.74363 NM_019510 Trpc3 Transient receptor potential cation channel, subfamily C, member 3 G04 Mm.325086 NM_013838 Trpc6 Transient receptor potential cation channel, subfamily C, member 6 G05 Mm.38875 NM_001039104 Trpm1 Transient receptor potential cation channel, subfamily M, member 1 G06 Mm.276762 NM_138301 Trpm2 Transient receptor potential cation channel, subfamily M, member 2 G07 Mm.218751 NM_153417 Trpm6 Transient receptor potential cation channel, subfamily M, member 6 G08 Mm.218753 NM_134252 Trpm8 Transient receptor potential cation channel, subfamily V, member 8 G09 Mm.447485 NM_001001445 Trpv1 Transient receptor potential cation channel, subfamily V, member 1 G10 Mm.288064 NM_011706 Trpv2 Transient receptor potential cation channel, subfamily V, member 3 G12					
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G10					, , , , , , , , , , , , , , , , , , , ,
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H06 N/A SA_00106 MGDC Mouse Genomic DNA Contamination H07 N/A SA_00104 RTC Reverse Transcription Control H08 N/A SA_00104 RTC Reverse Transcription Control H09 N/A SA_00104 RTC Reverse Transcription Control H10 N/A SA_00103 PPC Positive PCR Control H11 N/A SA_00103 PPC Positive PCR Control	H04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
H07 N/A SA_00104 RTC Reverse Transcription Control H08 N/A SA_00104 RTC Reverse Transcription Control H09 N/A SA_00104 RTC Reverse Transcription Control H10 N/A SA_00103 PPC Positive PCR Control H11 N/A SA_00103 PPC Positive PCR Control	H05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
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H10 N/A SA_00103 PPC Positive PCR Control H11 N/A SA_00103 PPC Positive PCR Control			_		·
H11 N/A SA_00103 PPC Positive PCR Control			_		'
-					
	H12	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 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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