RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse Alzheimer's Disease

Cat. no. 330231 PAMM-057ZR

For pathway expression analysis

Format	For use with the following real-time cyclers
RT² Profiler PCR Array, Format R	Rotor-Gene Q, other Rotor-Gene cyclers

Description

The Mouse Alzheimer's Disease RT² Profiler™ PCR Array profiles the expression of 84 genes important in the onset, development, and progression of Alzheimer's disease. The array includes genes that contribute to amyloid beta-peptide (Aß) generation, clearance, and degradation, as well as genes involved in amyloid beta-peptide (Aß) signal transduction leading to neuronal toxicity and inflammation. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to Alzheimer's Disease with this array.

For further details, consult the *RT² Profiler PCR Array Handbook*.

Shipping and storage

RT² Profiler PCR Arrays in the Rotor-Gene format are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

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

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc™ (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance.

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.30151	NM_175628	A2m	Alpha-2-macroglobulin
A02	Mm.277376	NM_013454	Abca1	ATP-binding cassette, sub-family A (ABC1), member 1
A03	Mm.255464	NM_009599	Ache	Acetylcholinesterase
A04	Mm.28908	NM_007404	Adam9	A disintegrin and metallopeptidase domain 9 (meltrin gamma)
A05	Mm.22879	NM_177034	Apba1	Amyloid beta (A4) precursor protein binding, family A, member 1
A06	Mm.293931	NM_018758	Apba3	Amyloid beta (A4) precursor protein-binding, family A, member 3
A07	Mm.38469	NM_009685	Apbb1	Amyloid beta (A4) precursor protein-binding, family B, member 1
A08	Mm.5159	NM_009686	Apbb2	Amyloid beta (A4) precursor protein-binding, family B, member 2
A09	Mm.359706	NM_146104	Aph1a	Anterior pharynx defective 1a homolog (C. elegans)
A10	Mm.2381	NM_007467	Aplp1	Amyloid beta (A4) precursor-like protein 1
A11	Mm.19133	NM_009691	Aplp2	Amyloid beta (A4) precursor-like protein 2
A12	Mm.26743	NM_009692	Apoa1	Apolipoprotein A-I
B01	Mm.305152	NM_009696	Apoe	Apolipoprotein E
B02	Mm.277585	NM_007471	App	Amyloid beta (A4) precursor protein
B03	Mm.24044	NM_011792	Bace1	Beta-site APP cleaving enzyme 1
B04	Mm.97885	NM_019517	Bace2	Beta-site APP-cleaving enzyme 2
B05	Mm.250719	NM_009738	Bche	Butyrylcholinesterase
B06	Mm.1442	NM_007540	Bdnf	Brain derived neurotrophic factor
B07	Mm.34405	NM_009810	Casp3	Caspase 3
B08	Mm.1569	NM_007609	Casp4	Caspase 4, apoptosis-related cysteine peptidase
B09	Mm.281367	NM_007659	Cdk1	Cyclin-dependent kinase 1
B10	Mm.298798	NM_007668	Cdk5	Cyclin-dependent kinase 5
B11	Mm.132325	NM_183294	Cdkl1	Cyclin-dependent kinase-like 1 (CDC2-related kinase)
B12	Mm.442817	NM_009891	Chat	Choline acetyltransferase
C01	Mm.200608	NM_013492	Clu	Clusterin
C02	Mm.236553	NM_007798	Ctsb	Cathepsin B
C03	Mm.322945	NM_009982	Ctsc	Cathepsin C
C04	Mm.231395	NM_009983	Ctsd	Cathepsin D
C05	Mm.4858	NM_007800	Ctsg	Cathepsin G
C06	Mm.930	NM_009984	Ctsl	Cathepsin L
C07	Mm.258397	NM_177821	Ep300	E1A binding protein p300
C08	Mm.340943	NM_023913	Ern1	Endoplasmic reticulum (ER) to nucleus signalling 1
C09	Mm.1222	NM_008083	Gap43	Growth associated protein 43
C10	Mm.251445	NM_010308	Gnao1	Guanine nucleotide binding protein, alpha o
C11	Mm.393508	NM_010311	Gnaz	Guanine nucleotide binding protein, alpha z subunit
C12	Mm.2344	NM_008142	Gnb1	Guanine nucleotide binding protein (G protein), beta 1
D01	Mm.30141	NM_010312	Gnb2	Guanine nucleotide binding protein (G protein), beta 2
D02	Mm.139192	NM_013531	Gnb4	Guanine nucleotide binding protein (G protein), beta 4
D03	Mm.17604	NM_010313	Gnb5	Guanine nucleotide binding protein (G protein), beta 5
D04	Mm.41780	NM_025277	Gng10	Guanine nucleotide binding protein (G protein), gamma 10
D05	Mm.25547	NM_025331	Gng11	Guanine nucleotide binding protein (G protein), gamma 11
D06	Mm.482164	NM_010316	Gng3	Guanine nucleotide binding protein (G protein), gamma 3
D07	Mm.215394	NM_010317	Gng4	Guanine nucleotide binding protein (G protein), gamma 4
D08	Mm.140804	NM_010318	Gng5	Guanine nucleotide binding protein (G protein), gamma 5
D09	Mm.222496	NM_010319	Gng7	Guanine nucleotide binding protein (G protein), gamma 7
D10	Mm.103770	NM_010320	Gng8	Guanine nucleotide binding protein (G protein), gamma 8
D11	Mm.95398	NM_010314	Gngt1	Guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 1
D12	Mm.46299	NM_023121	Gngt2	Guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2
E01	Mm.476745	NM_001031667	Gsk3a	Glycogen synthase kinase 3 alpha
E02	Mm.394930	NM_019827	Gsk3b	Glycogen synthase kinase 3 beta
E03	Mm.6994	NM_016763	Hsd17b10	Hydroxysteroid (17-beta) dehydrogenase 10
E04	Mm.28366	NM_031156	Ide	Insulin degrading enzyme
E05	Mm.3862	NM_010514	Igf2	Insulin-like growth factor 2
E06	Mm.15534	NM_010554	Il1a	Interleukin 1 alpha
E07	Mm.268003	NM_010568	Insr	Insulin receptor

Position	UniGene	GenBank	Symbol	Description
E08	Mm.1514	NM_008509	Lpl	Lipoprotein lipase
E09	Mm.271854	NM_008512	Lrp1	Low density lipoprotein receptor-related protein 1
E10	Mm.321990	NM_008514	Lrp6	Low density lipoprotein receptor-related protein 6
E11	Mm.442134	NM_001080926	Lrp8	Low density lipoprotein receptor-related protein 8, apolipoprotein e receptor
E12	Mm.1287	NM_010838	Mapt	Microtubule-associated protein tau
F01	Mm.4668	NM_010824	Mpo	Myeloperoxidase
F02	Mm.256966	NM_001039934	Mtap2	Microtubule-associated protein 2
F03	Mm.237670	NM_144931	Nae1	NEDD8 activating enzyme E1 subunit 1
F04	Mm.218203	NM_021607	Ncstn	Nicastrin
F05	Mm.260938	NM_026361	Pkp4	Plakophilin 4
F06	Mm.154660	NM_008872	Plat	Plasminogen activator, tissue
F07	Mm.4183	NM_008873	Plau	Plasminogen activator, urokinase
F08	Mm.971	NM_008877	Plg	Plasminogen
F09	Mm.222178	NM_011101	Prkca	Protein kinase C, alpha
F10	Mm.207496	NM_008855	Prkcb	Protein kinase C, beta
F11	Mm.7980	NM_011102	Prkcc	Protein kinase C, gamma
F12	Mm.2314	NM_011103	Prkcd	Protein kinase C, delta
G01	Mm.24614	NM_011104	Prkce	Protein kinase C, epsilon
G02	Mm.291554	NM_008857	Prkci	Protein kinase C, iota
G03	Mm.329993	NM_008859	Prkcq	Protein kinase C, theta
G04	Mm.28561	NM_008860	Prkcz	Protein kinase C, zeta
G05	Mm.998	NM_008943	Psen1	Presenilin 1
G06	Mm.330850	NM_011183	Psen2	Presenilin 2
G07	Mm.422814	NM_008458	Serpina3c	Serine (or cysteine) peptidase inhibitor, clade A, member 3C
G08	Mm.17484	NM_009221	Snca	Synuclein, alpha
G09	Mm.200843	NM_033610	Sncb	Synuclein, beta
G10	Mm.182053	NM_026842	Ubqln1	Ubiquilin 1
G11	Mm.335460	NM_025407	Uqcrc1	Ubiquinol-cytochrome c reductase core protein 1
G12	Mm.334206	NM_025899	Uqcrc2	Ubiquinol cytochrome c reductase core protein 2
H01	Mm.328431	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
H04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
H05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
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
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.
RT² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT² SYBR Green ROX™ FAST Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the Rotor-Gene Q and other Rotor-Gene cyclers	330620

* 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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