

RT² Profiler PCR Array (Rotor-Gene[®] Format)

Rat mir-1 & miR-206 Targets

Cat. no. 330231 PARN-6005ZR

For pathway expression analysis

| Format | For use with the following real-time cyclers |
|--|--|
| RT ² Profiler PCR Array, Format R | Rotor-Gene Q, other Rotor-Gene cyclers |

Description

The Rat miR-1 & miR-206 Targets RT² Profiler PCR Array profiles the expression of 84 rno-miR-1-3p and rno-miR-206-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by rno-miR-1-3p and rno-miR-206-3p. miRNA target gene expression analysis provides further insight into the function of these specific miRNAs. Using real-time PCR, research studies can easily and reliably analyze the expression of a focused panel of genes likely to be regulated by miR-1 and miR-206 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 | Rn.10056 | NM_031006 | Adar | Adenosine deaminase, RNA-specific |
| A02 | Rn.90546 | NM_019905 | Anxa2 | Annexin A2 |
| A03 | Rn.19270 | NM_024155 | Anxa4 | Annexin A4 |
| A04 | Rn.2185 | NM_001007662 | Arcn1 | Archain 1 |
| A05 | Rn.219095 | NM_001106089 | Ash2l | Ash2 (absent, small, or homeotic)-like (Drosophila) |
| A06 | Rn.8109 | NM_057213 | Atp6v1b2 | ATPase, H transporting, lysosomal V1 subunit B2 |
| A07 | Rn.6290 | NM_022585 | Azin1 | Antizyme inhibitor 1 |
| A08 | Rn.9996 | NM_016993 | Bcl2 | B-cell CLL/lymphoma 2 |
| A09 | Rn.11266 | NM_012513 | Bdnf | Brain-derived neurotrophic factor |
| A10 | Rn.4166 | NM_031969 | Calm1 | Calmodulin 1 |
| A11 | Rn.5968 | NM_017326 | Calm2 | Calmodulin 2 |
| A12 | Rn.2892 | NM_012518 | Calm3 | Calmodulin 3 |
| B01 | Rn.4175 | NM_053363 | Clcn3 | Chloride channel 3 |
| B02 | Rn.3589 | NM_019299 | Cltc | Clathrin, heavy chain (Hc) |
| B03 | Rn.57635 | NM_019359 | Cnn3 | Calponin 3, acidic |
| B04 | Rn.10918 | NM_012548 | Edn1 | Endothelin 1 |
| B05 | Rn.106940 | NM_001106963 | Eif1ay | Eukaryotic translation initiation factor 1A, Y-linked |
| B06 | Rn.10595 | NM_012689 | Esr1 | Estrogen receptor 1 |
| B07 | Rn.18972 | XM_232330 | Fbxl14 | F-box and leucine-rich repeat protein 14 |
| B08 | Rn.1604 | NM_019143 | Fn1 | Fibronectin 1 |
| B09 | Rn.22182 | NM_001108097 | Frs2 | Fibroblast growth factor receptor substrate 2 |
| B10 | Rn.95652 | NM_024369 | Fstl1 | Follistatin-like 1 |
| B11 | Rn.11040 | NM_017006 | G6pd | Glucose-6-phosphate dehydrogenase |
| B12 | Rn.26251 | NM_144730 | Gata4 | GATA binding protein 4 |
| C01 | Rn.28195 | NM_024356 | Gch1 | GTP cyclohydrolase 1 |
| C02 | Rn.10346 | NM_012567 | Gja1 | Gap junction protein, alpha 1 |
| C03 | Rn.162907 | NM_053684 | Hcn2 | Hyperpolarization activated cyclic nucleotide-gated potassium channel 2 |
| C04 | Rn.41082 | NM_021658 | Hcn4 | Hyperpolarization activated cyclic nucleotide-gated potassium channel 4 |
| C05 | Rn.23483 | XM_343629 | Hdac4 | Histone deacetylase 4 |
| C06 | Rn.204425 | XM_238042 | Hhip | Hedgehog-interacting protein |
| C07 | Rn.128804 | NM_001106467 | Hiat1 | Hippocampus abundant gene transcript 1 |
| C08 | Rn.4328 | NM_057139 | Hnrnpu | Heterogeneous nuclear ribonucleoprotein U |
| C09 | Rn.209614 | NM_001100787 | Hoxb4 | Homeo box B4 |
| C10 | Rn.213614 | XM_220557 | Hs3st3b1 | Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1 |
| C11 | Rn.1950 | NM_212504 | Hspa1b | Heat shock 70kD protein 1B (mapped) |
| C12 | Rn.163092 | NM_153629 | Hspa4 | Heat shock protein 4 |
| D01 | Rn.102058 | NM_022229 | Hspd1 | Heat shock protein 1 (chaperonin) |
| D02 | Rn.2113 | NM_012797 | Id1 | Inhibitor of DNA binding 1 |
| D03 | Rn.3272 | NM_013060 | Id2 | Inhibitor of DNA binding 2 |
| D04 | Rn.2760 | NM_013058 | Id3 | Inhibitor of DNA binding 3 |
| D05 | Rn.6282 | NM_178866 | Igf1 | Insulin-like growth factor 1 |
| D06 | Rn.10957 | NM_052807 | Igf1r | Insulin-like growth factor 1 receptor |
| D07 | Rn.141335 | NM_001030044 | Irx5 | Iroquois homeobox 5 |
| D08 | Rn.9734 | NM_012973 | Kcne1 | Potassium voltage-gated channel, Isk-related family, member 1 |
| D09 | Rn.44415 | NM_017296 | Kcnj2 | Potassium inwardly-rectifying channel, subfamily J, member 2 |
| D10 | Rn.218992 | XM_345150 | Kif2a | Kinesin family member 2A |
| D11 | Rn.7719 | NM_053713 | Klf4 | Kruppel-like factor 4 (gut) |
| D12 | Rn.61796 | NM_001006990 | LOC304000 | Cell adhesion molecule JCAM |
| E01 | Rn.29774 | NM_019149 | Matr3 | Matrin 3 |
| E02 | Rn.162435 | NM_001014035 | Mef2a | Myocyte enhancer factor 2a |
| E03 | Rn.10617 | NM_031517 | Met | Met proto-oncogene |
| E04 | Rn.106040 | XM_231287 | Mil5 | Myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila) |
| E05 | Rn.163163 | NM_001007673 | Mmd | Monocyte to macrophage differentiation-associated |
| E06 | Rn.154642 | XM_001053843 | Mon2 | MON2 homolog (S. cerevisiae) |
| E07 | Rn.144561 | NM_012749 | Ncl | Nucleolin |
| E08 | Rn.93910 | NM_001013923 | Ndr3 | N-myc downstream regulated gene 3 |
| E09 | Rn.53876 | NM_020087 | Notch3 | Notch homolog 3 (Drosophila) |

| Position | UniGene | GenBank | Symbol | Description |
|----------|-----------|--------------|---------|---|
| E10 | Rn.205144 | NM_001107044 | Osbpl7 | Oxysterol binding protein-like 7 |
| E11 | Rn.214198 | NM_053710 | Pax3 | Paired box 3 |
| E12 | Rn.134931 | XM_001071787 | Pax7 | Paired box 7 |
| F01 | Rn.34888 | NM_017034 | Pim1 | Pim-1 oncogene |
| F02 | Rn.18738 | NM_001107194 | Pogk | Pogo transposable element with KRAB domain |
| F03 | Rn.92345 | XM_242396 | Pola1 | Polymerase (DNA directed), alpha 1 |
| F04 | Rn.104461 | NM_001107891 | Ppp2r5a | Protein phosphatase 2, regulatory subunit B', alpha isoform |
| F05 | Rn.12223 | NM_013135 | Rasa1 | RAS p21 protein activator (GTPase activating protein) 1 |
| F06 | Rn.106719 | NM_001013060 | Rit2 | Ras-like without CAAX 2 |
| F07 | Rn.38954 | XM_227540 | Rsbn1 | Round spermatid basic protein 1 |
| F08 | Rn.98570 | NM_057148 | Sept2 | Septin 2 |
| F09 | Rn.52458 | XM_225744 | Setbp1 | SET binding protein 1 |
| F10 | Rn.163333 | XM_224987 | Sfrp1 | Secreted frizzled-related protein 1 |
| F11 | Rn.73954 | NM_001025728 | Smardc1 | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1 |
| F12 | Rn.76073 | NM_001024751 | Sox6 | SRY (sex determining region Y)-box 6 |
| G01 | Rn.216447 | NM_001128190 | Sri | Sorcín |
| G02 | Rn.44823 | NM_022230 | Stc2 | Stanniocalcin 2 |
| G03 | Rn.1920 | NM_012666 | Tac1 | Tachykinin 1 |
| G04 | Rn.89609 | NM_012667 | Tacr1 | Tachykinin receptor 1 |
| G05 | Rn.104497 | NM_001013127 | Tagln2 | Transgelin 2 |
| G06 | Rn.35526 | XM_233081 | Thoc2 | THO complex 2 |
| G07 | Rn.212208 | NM_031136 | Tmsb4x | Thymosin beta 4, X-linked |
| G08 | Rn.198975 | XM_341256 | Tns3 | Tensin 3 |
| G09 | Rn.138388 | NM_001108461 | Tppp | Tubulin polymerization promoting protein |
| G10 | Rn.74459 | XM_001076394 | Trank1 | Tetratricopeptide repeat and ankyrin repeat containing 1 |
| G11 | Rn.102204 | NM_207610 | Ube4a | Ubiquitination factor E4A (UFD2 homolog, yeast) |
| G12 | Rn.9901 | NM_013070 | Utrn | Utrophin |
| H01 | Rn.94978 | NM_031144 | Actb | Actin, beta |
| H02 | Rn.1868 | NM_012512 | B2m | Beta-2 microglobulin |
| H03 | Rn.47 | NM_012583 | Hprt1 | Hypoxanthine phosphoribosyltransferase 1 |
| H04 | Rn.107896 | NM_017025 | Ldha | Lactate dehydrogenase A |
| H05 | Rn.973 | NM_001007604 | Rplp1 | Ribosomal protein, large, P1 |
| H06 | N/A | U26919 | RGDC | Rat 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. |
|---|--|----------|
| RT ² First Strand Kit (12) | Enzymes and reagents for cDNA synthesis | 330401 |
| RT ² 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.

Trademarks: QIAGEN[®], Rotor-Gene[®], Rotor-Disc[™] (QIAGEN Group); ROX[™] (Applied Biosystems or its subsidiaries); SYBR[®] (Molecular Probes, Inc.).

1067688 03/2011 © 2011 QIAGEN, all rights reserved.

www.qiagen.com

Australia ■ 1-800-243-800

Austria ■ 0800/281010

Belgium ■ 0800-79612

Brazil ■ 0800-557779

Canada ■ 800-572-9613

China ■ 8621-3865-3865

Denmark ■ 80-885945

Finland ■ 0800-914416

France ■ 01-60-920-930

Germany ■ 02103-29-12000

Hong Kong ■ 800 933 965

Ireland ■ 1800 555 049

Italy ■ 800-787980

Japan ■ 03-6890-7300

Korea (South) ■ 080-000-7145

Luxembourg ■ 8002 2076

Mexico ■ 01-800-7742-436

The Netherlands ■ 0800 0229592

Norway ■ 800-18859

Singapore ■ 1800-742-4368

Spain ■ 91-630-7050

Sweden ■ 020-790282

Switzerland ■ 055-254-22-11

UK ■ 01293-422-911

USA ■ 800-426-8157



Sample & Assay Technologies