RT² Profiler PCR Array (Rotor-Gene® Format) Mouse Lymphoma

Cat. no. 330231 PAMM-139ZR

For pathway expression analysis

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

Description

The Mouse Lymphoma RT2 Profiler PCR Array profiles the expression of 84 key genes commonly involved in lymphoma development, classification, prognosis, and therapeutic response. Lymphoma is a cancer of lymphatic cells in the immune system. The major clinical and pathological subtypes of adulthood lymphoma include follicular lymphoma and diffuse large B-cell lymphoma (DLBCL). Lymphoma affects molecular and biological pathways responsible for cell adhesion, cell cycle, immune and inflammatory responses, PI-3-Kinase/AKT signaling, and T cell differentiation. This array represents many genes in these pathways as well as a number of common lymphoma therapeutic targets derived from the same pathways. The array also includes dysregulated genes detected routinely in molecular analysis of lymphoma samples and in high-throughput microarray profiling studies, especially those associated with lymphoma survival. Genes known to have differentially methylated promoters in lymphoma are also represented. The profiling results from this array may lead to a better understanding of the molecular mechanisms behind lymphoma. Using real-time PCR, research studies can easily and reliably analyze the expression of a focused panel of genes involved in lymphoma initiation and progression 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

| A01 | Position | UniGene | GenBank | Symbol | Description | |
|---|----------|-----------|-----------|--------|--|--|
| A03 | A01 | Mm.6949 | NM 133919 | Aff1 | AF4/FMR2 family, member 1 | |
| A03 | A02 | Mm.311854 | NM 007439 | Alk | Anaplastic lymphoma kinase | |
| A05 Mm. 257460 NM. 009741 Bel2 Beat Illeuksenia/Imphomom 2 A06 A07 Mm. 343798 NM. 009748 Bit 5 Beat Illeuksenia/Imphomom 6 A07 Mm. 8552 NM. 007848 Bit 5 Baculoviral IAP repeat-contenting 5 A08 Mm. 44710 NM. 007572 C Tq Complement component 14 (Rodgers blood group) A10 Mm. 477109 NM. 0118710 Code Complement component 14 (Rodgers blood group) A11 Mm. 247917 NM. 018770 Codim! Complement component 14 (Rodgers blood group) A12 Mm. 234932 NM. 007631 Ccn11 Cpc1 (Complement component 14 (Rodgers blood group) A12 Mm. 234934 NM. 007631 Ccn11 Cpc2 (Complement component 14 (Rodgers blood group) B1 Mm. 234974 NM. 007631 Ccn11 Cpc2 (Complement component 14 (Rodgers blood group) B1 Mm. 234924 NM. 007631 Ccr1 Chemobile (C.C. Combil receptor 1 B1 Mm. 24727 NM. 007635 Cd22 CD22 antigen B03 Mm. 2527 NM. 013481 Cd34 <td>A03</td> <td>Mm.253061</td> <td></td> <td>Asb13</td> <td colspan="2">1 , 1</td> | A03 | Mm.253061 | | Asb13 | 1 , 1 | |
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| A11 | A10 | | | | | |
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| E05 Mm.4078 NM_001081117 Mki67 Antigen identified by monoclonal antibody Ki 67 E06 Mm.196006 NM_026810 Mlh1 MutL homolog 1 (E. coli) E07 Mm.296022 NM_008604 Mme Membrane metallo endopeptidase E08 Mm.4046 NM_007641 Ms4a1 Membrane-spanning 4-domains, subfamily A, member 1 | | | | | , | |
| E06 Mm.196006 NM_026810 Mlh1 MutL homolog 1 (E. coli) E07 Mm.296022 NM_008604 Mme Membrane metallo endopeptidase E08 Mm.4046 NM_007641 Ms4a1 Membrane-spanning 4-domains, subfamily A, member 1 | | | | | · | |
| E07 Mm.296022 NM_008604 Mme Membrane metallo endopeptidase E08 Mm.4046 NM_007641 Ms4a1 Membrane-spanning 4-domains, subfamily A, member 1 | | | | | | |
| E08 Mm.4046 NM_007641 Ms4a1 Membrane-spanning 4-domains, subfamily A, member 1 | | | | | | |
| | | | | | | |
| E09 Mm.21158 NM_020009 Mtor Mechanistic target of rapamycin (serine/threonine kinase) | | Mm.4046 | | Ms4a1 | Membrane-spanning 4-domains, subfamily A, member 1 | |
| | E09 | Mm.21158 | NM_020009 | Mtor | Mechanistic target of rapamycin (serine/threonine kinase) | |

| Position | UniGene | GenBank | Symbol | Description | |
|----------|-----------|--------------|----------|--|--|
| E10 | Mm.479 | NM_008651 | Mybl1 | Myeloblastosis oncogene-like 1 | |
| E11 | Mm.2444 | NM_010849 | Мус | Myelocytomatosis oncogene | |
| E12 | Mm.1526 | NM_010866 | Myod1 | Myogenic differentiation 1 | |
| F01 | Mm.4974 | NM_010875 | Ncam1 | Neural cell adhesion molecule 1 | |
| F02 | Mm.256765 | NM_008689 | Nfkb1 | Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1, p105 | |
| F03 | Mm.290610 | NM_008714 | Notch1 | Notch gene homolog 1 (Drosophila) | |
| F04 | Mm.23897 | NM_053182 | Pag1 | Phosphoprotein associated with glycosphingolipid microdomains 1 | |
| F05 | Mm.277779 | NM_007415 | Parp1 | Poly (ADP-ribose) polymerase family, member 1 | |
| F06 | Mm.275648 | NM_026131 | Pdlim7 | PDZ and LIM domain 7 | |
| F07 | Mm.254494 | NM_007982 | Ptk2 | PTK2 protein tyrosine kinase 2 | |
| F08 | Mm.391573 | NM_011210 | Ptprc | Protein tyrosine phosphatase, receptor type, C | |
| F09 | Mm.12091 | NM_019713 | Rassf1 | Ras association (RalGDS/AF-6) domain family member 1 | |
| F10 | Mm.279741 | NM_011254 | Rbp1 | Retinol binding protein 1, cellular | |
| F11 | Mm.265060 | NM_031196 | Slc19a1 | Solute carrier family 19 (sodium/hydrogen exchanger), member 1 | |
| F12 | Mm.22845 | NM_009271 | Src | Rous sarcoma oncogene | |
| G01 | Mm.1550 | NM_011487 | Stat4 | Signal transducer and activator of transcription 4 | |
| G02 | Mm.375031 | NM_011518 | Sykb | Spleen tyrosine kinase | |
| G03 | Mm.248380 | NM_011577 | Tgfb1 | Transforming growth factor, beta 1 | |
| G04 | Mm.206505 | NM_011594 | Timp2 | Tissue inhibitor of metalloproteinase 2 | |
| G05 | Mm.4871 | NM_011595 | Timp3 | Tissue inhibitor of metalloproteinase 3 | |
| G06 | Mm.116894 | NM_016928 | Tlr5 | Toll-like receptor 5 | |
| G07 | Mm.1293 | NM_013693 | Tnf | Tumor necrosis factor | |
| G08 | Mm.235328 | NM_011610 | Tnfrsf1b | Tumor necrosis factor receptor superfamily, member 1b | |
| G09 | Mm.28835 | NM_033622 | Tnfsf13b | Tumor necrosis factor (ligand) superfamily, member 13b | |
| G10 | Mm.222 | NM_011640 | Trp53 | Transformation related protein 53 | |
| G11 | Mm.130002 | NM_001033149 | Ttc9 | Tetratricopeptide repeat domain 9 | |
| G12 | Mm.268357 | NM_177683 | VgII4 | Vestigial like 4 (Drosophila) | |
| 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 | |

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