

# RT<sup>2</sup> Profiler PCR Array (Rotor-Gene® Format)

## Rabbit Housekeeping Genes

Cat. no. 330231 PANZ-000ZR

For pathway expression analysis

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

### Description

The Rabbit Housekeeping Genes RT<sup>2</sup> Profiler PCR Array profiles the expression of 8 identical sets of 12 commonly used housekeeping genes. This array can be easily used to identify genes with a constant level of expression among different experimental conditions for use in normalizing relative gene expression profiling experiment. Housekeeping genes encode proteins that are usually essential for the maintenance of cellular function. Their expression often, but not always, remains constant under most experimental conditions. Some of these genes may be regulated under certain circumstances and may vary with cell type. Using real-time PCR, research studies can easily and reliably analyze the expression of these housekeeping genes among different experimental conditions with this array.

For further details, consult the *RT<sup>2</sup> Profiler PCR Array Handbook*.

### Shipping and storage

RT<sup>2</sup> 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 RT<sup>2</sup> Profiler PCR Array format for your real-time cycler (see table above).

**Note:** Open the package and store the products appropriately immediately on receipt.



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Sample & Assay Technologies

## 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: RT<sup>2</sup> Profiler PCR Array

| Position | UniGene  | GenBank      | Symbol       | Description                                          |
|----------|----------|--------------|--------------|------------------------------------------------------|
| A01      | Ocu.2090 | NM_001101682 | ACTA2        | Actin, alpha 2, smooth muscle, aorta                 |
| A02      | Ocu.734  | NM_001101683 | ACTB         | Actin, beta                                          |
| A03      | Ocu.87   | NM_001082253 | GAPDH        | Glyceraldehyde-3-phosphate dehydrogenase             |
| A04      | N/A      | XM_002722723 | HMBS         | Hydroxymethylbilane synthase                         |
| A05      | Ocu.7325 | NM_001105671 | HPRT1        | Hypoxanthine phosphoribosyltransferase 1             |
| A06      | Ocu.1108 | NM_001082277 | LDHA         | Lactate dehydrogenase A                              |
| A07      | N/A      | XM_002723497 | LOC100343365 | TATA box binding protein                             |
| A08      | N/A      | XM_002723383 | LOC100346936 | Non-POU domain containing, octamer-binding-like      |
| A09      | N/A      | XM_002718785 | LOC100351347 | Ubiquitin B-like                                     |
| A10      | N/A      | XM_002714163 | LOC100354869 | Eukaryotic translation elongation factor 1 epsilon 1 |
| A11      | N/A      | XM_002715708 | LOC100354957 | Peptidylprolyl isomerase H                           |
| A12      | Ocu.6197 | NM_001082057 | PPIA         | Peptidylprolyl isomerase A (cyclophilin A)           |
| B01      | Ocu.2090 | NM_001101682 | ACTA2        | Actin, alpha 2, smooth muscle, aorta                 |
| B02      | Ocu.734  | NM_001101683 | ACTB         | Actin, beta                                          |
| B03      | Ocu.87   | NM_001082253 | GAPDH        | Glyceraldehyde-3-phosphate dehydrogenase             |
| B04      | N/A      | XM_002722723 | HMBS         | Hydroxymethylbilane synthase                         |
| B05      | Ocu.7325 | NM_001105671 | HPRT1        | Hypoxanthine phosphoribosyltransferase 1             |
| B06      | Ocu.1108 | NM_001082277 | LDHA         | Lactate dehydrogenase A                              |
| B07      | N/A      | XM_002723497 | LOC100343365 | TATA box binding protein                             |
| B08      | N/A      | XM_002723383 | LOC100346936 | Non-POU domain containing, octamer-binding-like      |
| B09      | N/A      | XM_002718785 | LOC100351347 | Ubiquitin B-like                                     |
| B10      | N/A      | XM_002714163 | LOC100354869 | Eukaryotic translation elongation factor 1 epsilon 1 |
| B11      | N/A      | XM_002715708 | LOC100354957 | Peptidylprolyl isomerase H                           |
| B12      | Ocu.6197 | NM_001082057 | PPIA         | Peptidylprolyl isomerase A (cyclophilin A)           |
| C01      | Ocu.2090 | NM_001101682 | ACTA2        | Actin, alpha 2, smooth muscle, aorta                 |
| C02      | Ocu.734  | NM_001101683 | ACTB         | Actin, beta                                          |
| C03      | Ocu.87   | NM_001082253 | GAPDH        | Glyceraldehyde-3-phosphate dehydrogenase             |
| C04      | N/A      | XM_002722723 | HMBS         | Hydroxymethylbilane synthase                         |
| C05      | Ocu.7325 | NM_001105671 | HPRT1        | Hypoxanthine phosphoribosyltransferase 1             |
| C06      | Ocu.1108 | NM_001082277 | LDHA         | Lactate dehydrogenase A                              |
| C07      | N/A      | XM_002723497 | LOC100343365 | TATA box binding protein                             |
| C08      | N/A      | XM_002723383 | LOC100346936 | Non-POU domain containing, octamer-binding-like      |
| C09      | N/A      | XM_002718785 | LOC100351347 | Ubiquitin B-like                                     |
| C10      | N/A      | XM_002714163 | LOC100354869 | Eukaryotic translation elongation factor 1 epsilon 1 |
| C11      | N/A      | XM_002715708 | LOC100354957 | Peptidylprolyl isomerase H                           |
| C12      | Ocu.6197 | NM_001082057 | PPIA         | Peptidylprolyl isomerase A (cyclophilin A)           |
| D01      | Ocu.2090 | NM_001101682 | ACTA2        | Actin, alpha 2, smooth muscle, aorta                 |
| D02      | Ocu.734  | NM_001101683 | ACTB         | Actin, beta                                          |
| D03      | Ocu.87   | NM_001082253 | GAPDH        | Glyceraldehyde-3-phosphate dehydrogenase             |
| D04      | N/A      | XM_002722723 | HMBS         | Hydroxymethylbilane synthase                         |
| D05      | Ocu.7325 | NM_001105671 | HPRT1        | Hypoxanthine phosphoribosyltransferase 1             |
| D06      | Ocu.1108 | NM_001082277 | LDHA         | Lactate dehydrogenase A                              |

| Position | UniGene  | GenBank      | Symbol       | Description                                          |
|----------|----------|--------------|--------------|------------------------------------------------------|
| D07      | N/A      | XM_002723497 | LOC100343365 | TATA box binding protein                             |
| D08      | N/A      | XM_002723383 | LOC100346936 | Non-POU domain containing, octamer-binding-like      |
| D09      | N/A      | XM_002718785 | LOC100351347 | Ubiquitin B-like                                     |
| D10      | N/A      | XM_002714163 | LOC100354869 | Eukaryotic translation elongation factor 1 epsilon 1 |
| D11      | N/A      | XM_002715708 | LOC100354957 | Peptidylprolyl isomerase H                           |
| D12      | Ocu.6197 | NM_001082057 | PPIA         | Peptidylprolyl isomerase A (cyclophilin A)           |
| E01      | Ocu.2090 | NM_001101682 | ACTA2        | Actin, alpha 2, smooth muscle, aorta                 |
| E02      | Ocu.734  | NM_001101683 | ACTB         | Actin, beta                                          |
| E03      | Ocu.87   | NM_001082253 | GAPDH        | Glyceraldehyde-3-phosphate dehydrogenase             |
| E04      | N/A      | XM_002722723 | HMBS         | Hydroxymethylbilane synthase                         |
| E05      | Ocu.7325 | NM_001105671 | HPRT1        | Hypoxanthine phosphoribosyltransferase 1             |
| E06      | Ocu.1108 | NM_001082277 | LDHA         | Lactate dehydrogenase A                              |
| E07      | N/A      | XM_002723497 | LOC100343365 | TATA box binding protein                             |
| E08      | N/A      | XM_002723383 | LOC100346936 | Non-POU domain containing, octamer-binding-like      |
| E09      | N/A      | XM_002718785 | LOC100351347 | Ubiquitin B-like                                     |
| E10      | N/A      | XM_002714163 | LOC100354869 | Eukaryotic translation elongation factor 1 epsilon 1 |
| E11      | N/A      | XM_002715708 | LOC100354957 | Peptidylprolyl isomerase H                           |
| E12      | Ocu.6197 | NM_001082057 | PPIA         | Peptidylprolyl isomerase A (cyclophilin A)           |
| F01      | Ocu.2090 | NM_001101682 | ACTA2        | Actin, alpha 2, smooth muscle, aorta                 |
| F02      | Ocu.734  | NM_001101683 | ACTB         | Actin, beta                                          |
| F03      | Ocu.87   | NM_001082253 | GAPDH        | Glyceraldehyde-3-phosphate dehydrogenase             |
| F04      | N/A      | XM_002722723 | HMBS         | Hydroxymethylbilane synthase                         |
| F05      | Ocu.7325 | NM_001105671 | HPRT1        | Hypoxanthine phosphoribosyltransferase 1             |
| F06      | Ocu.1108 | NM_001082277 | LDHA         | Lactate dehydrogenase A                              |
| F07      | N/A      | XM_002723497 | LOC100343365 | TATA box binding protein                             |
| F08      | N/A      | XM_002723383 | LOC100346936 | Non-POU domain containing, octamer-binding-like      |
| F09      | N/A      | XM_002718785 | LOC100351347 | Ubiquitin B-like                                     |
| F10      | N/A      | XM_002714163 | LOC100354869 | Eukaryotic translation elongation factor 1 epsilon 1 |
| F11      | N/A      | XM_002715708 | LOC100354957 | Peptidylprolyl isomerase H                           |
| F12      | Ocu.6197 | NM_001082057 | PPIA         | Peptidylprolyl isomerase A (cyclophilin A)           |
| G01      | Ocu.2090 | NM_001101682 | ACTA2        | Actin, alpha 2, smooth muscle, aorta                 |
| G02      | Ocu.734  | NM_001101683 | ACTB         | Actin, beta                                          |
| G03      | Ocu.87   | NM_001082253 | GAPDH        | Glyceraldehyde-3-phosphate dehydrogenase             |
| G04      | N/A      | XM_002722723 | HMBS         | Hydroxymethylbilane synthase                         |
| G05      | Ocu.7325 | NM_001105671 | HPRT1        | Hypoxanthine phosphoribosyltransferase 1             |
| G06      | Ocu.1108 | NM_001082277 | LDHA         | Lactate dehydrogenase A                              |
| G07      | N/A      | XM_002723497 | LOC100343365 | TATA box binding protein                             |
| G08      | N/A      | XM_002723383 | LOC100346936 | Non-POU domain containing, octamer-binding-like      |
| G09      | N/A      | XM_002718785 | LOC100351347 | Ubiquitin B-like                                     |
| G10      | N/A      | XM_002714163 | LOC100354869 | Eukaryotic translation elongation factor 1 epsilon 1 |
| G11      | N/A      | XM_002715708 | LOC100354957 | Peptidylprolyl isomerase H                           |
| G12      | Ocu.6197 | NM_001082057 | PPIA         | Peptidylprolyl isomerase A (cyclophilin A)           |
| H01      | Ocu.2090 | NM_001101682 | ACTA2        | Actin, alpha 2, smooth muscle, aorta                 |
| H02      | Ocu.734  | NM_001101683 | ACTB         | Actin, beta                                          |
| H03      | Ocu.87   | NM_001082253 | GAPDH        | Glyceraldehyde-3-phosphate dehydrogenase             |
| H04      | N/A      | XM_002722723 | HMBS         | Hydroxymethylbilane synthase                         |
| H05      | Ocu.7325 | NM_001105671 | HPRT1        | Hypoxanthine phosphoribosyltransferase 1             |
| H06      | Ocu.1108 | NM_001082277 | LDHA         | Lactate dehydrogenase A                              |
| H07      | N/A      | XM_002723497 | LOC100343365 | TATA box binding protein                             |
| H08      | N/A      | XM_002723383 | LOC100346    | Non-POU domain containing, octamer-binding-like      |

| Position | UniGene  | GenBank      | Symbol           | Description                                          |
|----------|----------|--------------|------------------|------------------------------------------------------|
|          |          |              | 936              |                                                      |
| H09      | N/A      | XM_002718785 | LOC100351<br>347 | Ubiquitin B-like                                     |
| H10      | N/A      | XM_002714163 | LOC100354<br>869 | Eukaryotic translation elongation factor 1 epsilon 1 |
| H11      | N/A      | XM_002715708 | LOC100354<br>957 | Peptidylprolyl isomerase H                           |
| H12      | Ocu.6197 | NM_001082057 | PPIA             | Peptidylprolyl isomerase A (cyclophilin A)           |

## Related products

For optimal performance, RT<sup>2</sup> Profiler PCR Arrays should be used together with the RT<sup>2</sup> First Strand Kit for cDNA synthesis and RT<sup>2</sup> SYBR<sup>®</sup> Green qPCR Mastermixes for PCR.

| Product                                                         | Contents                                                                                                 | Cat. no. |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------|
| RT <sup>2</sup> First Strand Kit (12)                           | Enzymes and reagents for cDNA synthesis                                                                  | 330401   |
| RT <sup>2</sup> SYBR Green ROX <sup>™</sup> 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.

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RT<sup>2</sup> 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](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

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