

RT² lncRNA PCR Arrays

For lncRNA expression analysis by pathway and disease using laboratory-verified SYBR[®] Green qPCR assays

RT² lncRNA PCR Arrays combine real-time PCR performance with a panel of long noncoding RNAs related to a disease state or biological pathway to deliver sensitive, specific lncRNA profiling. These arrays are especially suited for researchers who prefer the accuracy and sensitivity of RT-PCR technology and require the capacity to study the expression of multiple lncRNAs at once.

Benefits of RT² lncRNA PCR Arrays:

- Enable expression analysis of multiple related lncRNAs at one time
- Use for screening or verification of RNA-seq and microarray studies
- All qPCR assays laboratory-verified for qPCR performance
- Available in 96-well and 384-well plates as well as 100-well ring discs

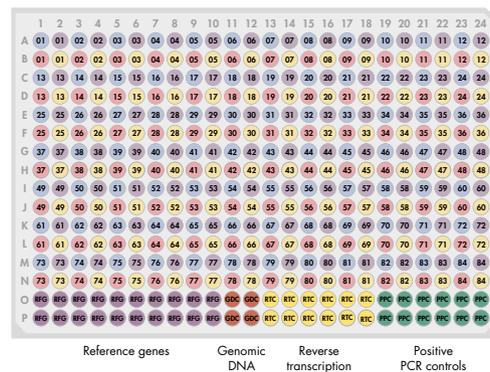
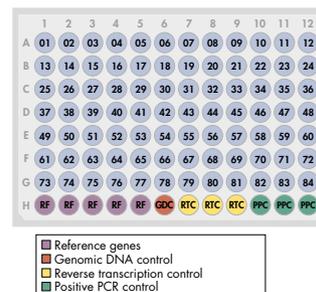
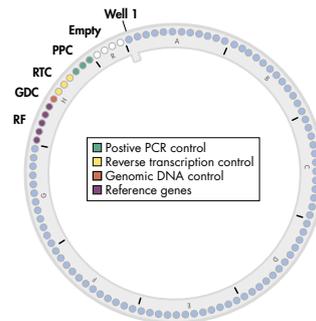
Expertly curated lncRNAs with guaranteed qPCR performance

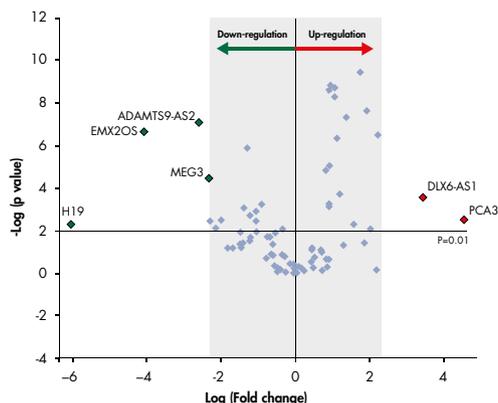
Each RT² lncRNA PCR Array is a collection of RT² lncRNA qPCR Assays that have been selected by QIAGEN's bioinformatics scientists and are for long noncoding RNAs related by pathway or disease or biological process. Each individual qPCR Assay is designed using a computer algorithm and RNA transcript data from a proprietary database assembled by QIAGEN based on information from the NCBI RefSeq and Ensembl GENCODE databases. Each qPCR Assay used in the RT² lncRNA PCR Array is laboratory-verified for amplification efficiency, sensitivity, and specificity.

Flexible layout and patented controls

RT² lncRNA PCR Arrays are available in 96-well and 384-well plates, as well as 100-well ring discs for the Rotor-Gene[®] Q. Each RT² lncRNA PCR Array can be used to monitor the expression of 84 lncRNA genes related to a disease state or pathway, plus 5 reference genes (Figure 1). Patented controls (U.S. Patent 8,597,938) to monitor sample quality (GDC assay) and qPCR performance (RTC and PPC assays) deliver the reproducible results your lncRNA expression studies demand.

Figure 1. Flexible layout of RT² lncRNA PCR Arrays. Each 96-well plate has 84 lncRNA specific assays as well as 5 reference genes, genomic DNA, reverse transcription, and PCR controls. Also available in 384-well plates as well as 100-well ring discs for the Rotor-Gene Q.





Accurate profiling of lncRNA gene expression

RNA from stage II prostate cancer research samples and from normal adjacent tissue was analyzed using the human RT² lncRNA Cancer PathwayFinder PCR Array to profile and discover more about the role of lncRNA gene expression during oncogenesis (Figure 2).

Figure 2. Accurate profiling of lncRNA gene expression. Volcano plot of lncRNA gene expression change in stage II prostate cancer tissue compared with normal tissue. The well-characterized lncRNA, PCA3, was shown to be upregulated 22-fold between stage II prostate cancer research samples and normal healthy tissue samples. At the same time, the human RT² lncRNA Cancer PathwayFinder PCR Array successfully demonstrated that several other lncRNAs were either upregulated (DLX6-AS1) or down-regulated (MEG3, H19, EMX2OS, ADAMTS9-AS2).

Ordering Information

Product	Contents	Cat. no.
RT ² lncRNA PCR Arrays	For profiling lncRNA by pathway or disease. Find your pathway at www.qiagen.com/lncRNA	330721
RT ² lncRNA qPCR Assay (200)	For 200 x 25 µl reactions: Laboratory-verified SYBR Green qPCR assay	330701
RT ² lncRNA PCR Array Modification	Add up to 4 genes to a RT ² lncRNA PCR Array	330711
Custom RT ² lncRNA PCR Array	Build your own RT ² lncRNA PCR Array for RNA-seq verification or qPCR profiling of your most important genes	330731
RT ² lncRNA PreAMP Primer Mixes	Used to pre-amplify cDNA for increased sensitivity when starting with <1 ng total RNA, exosome-derived RNA, FFPE samples, and limited numbers of cells	330741
RT ² First Strand Kit (12)	For reverse transcription of lncRNA and mRNA; includes RNA for reverse transcription control and genomic DNA removal buffer	330401
RT ² First Strand Kit (50)	For reverse transcription of lncRNA and mRNA; includes RNA for reverse transcription control and genomic DNA removal buffer	330404

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.



To discover more, visit www.qiagen.com/lncRNA today!

Trademarks: QIAGEN®, Rotor-Gene® (QIAGEN Group); SYBR® (Life Technologies Corporation).

RT² lncRNA PCR Arrays are protected by U.S. Patent (8,597,938) for the "System for providing control reactions for real time RT-PCR".

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