RT² lncRNA PCR Array (96-Well Format and 384-Well [4 x 96] Format)

Human lncFinder RT2 lncRNA PCR Array

Cat. no. 330721 LAHS-001Z

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

Format	For use with the following real-time cyclers
RT² lncRNA PCR Array, Format A	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, QuantStudio® 6K Flex and QuantStudio 12K Flex (96-well standard block), ViiA™ 7 (96-well block); Bio-Rad® models iCycler®, iQ™5, MyiQ™, MyiQ2; Bio-Rad/MJ Research Chromo4™; Eppendorf® Mastercycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®; Takara TP-800, TP-900 (Dice®)
RT² lncRNA PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (fast block), QuantStudio 6K/12K Flex (96-well fast block), StepOnePlus™, ViiA7 (fast block)
RT² lncRNA PCR Array, Format D	Bio-Rad CFX96™, CFX Connect™, CFX96 Touch™ Deep Well; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene
RT² lncRNA PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT² lncRNA PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
RT² lncRNA PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT² lncRNA PCR Array, Format H	Fluidigm® BioMark™
RT² lncRNA PCR Array, Format R	Rotor-Gene® Q

Description

The Human lncFinder RT² lncRNA PCR Array profiles the expression of 84 well-characterized long noncoding RNAs (lncRNAs). Each of these lncRNAs may play a role in regulating gene expression, mediating biological processes, or contributing to disease. Although the biological functions of these lncRNAs have only been partially characterized, comparing their expression levels between different samples can help suggest their relationship with known biological processes. A set of controls present on this array enables data analysis using the delta-delta CT method of relative quantification, assessment of reverse transcription performance, and assessment of PCR performance. Using SYBR Green-based real-time PCR, the expression of 84 highly researched lncRNAs can be easily and reliably analyzed with this RT² lncRNA PCR Array.

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

Shipping and storage

RT² lncRNA PCR Arrays in formats A, C, D, E, F, G, and R are shipped at ambient temperature, on dry ice, or on blue ice packs, depending on destination and accompanying products. RT² lncRNA PCR Arrays in format H are shipped on dry ice or blue ice packs.

For long term storage, keep plates at –20°C.

Note: Ensure that you have the correct RT² lncRNA 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 (96-well)

For 384-well 4 x 96 PCR arrays, genes are present in a staggered format. Refer to the *RT² lncRNA PCR Array Handbook* for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
A	AIRN	ATXN8OS	BANCR	BCYRN1	BDNF-AS	BOK-AS1	CCAT1	CCAT2	CDKN2B-AS1	DANCR	DIO3OS	DISC2
B	DLX6-AS1	EGOT	EMX2OS	FAS-AS1	FENDRR	FTX	GACAT1	GAS5	GNAS-AS1	H19	HAR1A	HAR1B
C	HEIH	HOTAIR	HOTAIRM1	HOTTIP	HOXA11-AS	HOXA-AS2	HOXA-AS3	HULC	IGF2-AS	IPW	JPX	KCNIP4-IT1
D	KCNQ1OT1	KRASP1	LINC00568	LINC00570	LINC00581	LINC00599	LINC00853	LINC-ROR	LUCAT1	MALAT1	MEG3	MEG9
E	MIAT	MRPL23-AS1	NAMA	NEAT1	NRON	OIP5-AS1	OTX2-AS1	PANDAR	PCAT1	PCGEM1	PRINS	PTCSC1
F	PTCSC3	PTENP1	PTENP1-AS	RBM5-AS1	RMST	RPS6KA2-AS1	SIX3-AS1	SNHG16	SOX2-OT	SPRY4-IT1	ST7-AS1	ST7-AS2
G	TERC	TINCR	TMEM161B-AS1	TRERNA1	TSIX	TUG1	TUNAR	TUSC7	UCA1	WT1-AS	XIST	ZFAS1
H	ACTB	B2M	RPLP0	RN7SK	SNORA73A	HGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² lncRNA PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	N/A	ENST00000601203	AIRN	Antisense of IGF2R non-protein coding RNA
A02	N/A	ENST00000414504	ATXN8OS	ATXN8 opposite strand (non-protein coding)
A03	N/A	NR_047671	BANCR	BRAF-activated non-protein coding RNA
A04	N/A	ENST00000418539	BCYRN1	Brain cytoplasmic RNA 1
A05	Hs.675323	NR_002832	BDNF-AS	BDNF antisense RNA
A06	N/A	ENST00000434306	BOK-AS1	BOK antisense RNA 1
A07	N/A	ENST00000500112	CCAT1	Colon cancer associated transcript 1 (non-protein coding)
A08	N/A	NR_109834	CCAT2	Colon cancer associated transcript 2 (non-protein coding)
A09	N/A	ENST00000421632	CDKN2B-AS1	CDKN2B antisense RNA 1
A10	Hs.744077	NR_024031	DANCR	KIAA0114
A11	Hs.745484	NR_002770	DIO3OS	DIO3 opposite strand (non-protein coding)
A12	N/A	NR_002227	DISC2	Disrupted in schizophrenia 2 (non-protein coding)
B01	Hs.34969	NR_015448	DLX6-AS1	DLX6 antisense RNA 1
B02	N/A	ENST00000414938	EGOT	Eosinophil granule ontogeny transcript (non-protein coding)
B03	Hs.312592	NR_002791	EMX2OS	EMX2 opposite strand (non-protein coding)
B04	N/A	NR_028371	FAS-AS1	FAS antisense RNA 1
B05	Hs.448825	NR_033925	FENDRR	Hypothetical LOC400550
B06	N/A	ENST00000418855	FTX	FTX transcript, XIST regulator (non-protein coding)
B07	N/A	ENST00000419650	GACAT1	Gastric cancer associated transcript 1 (non-protein coding) [Source:HGNC Symbol;Acc:48336]
B08	Hs.736055	NR_002578	GAS5	Growth arrest-specific 5 (non-protein coding)
B09	Hs.122718	NR_002785	GNAS-AS1	GNAS antisense RNA 1
B10	Hs.533566	NR_002196	H19	H19, imprinted maternally expressed transcript (non-protein coding)
B11	Hs.549606	NR_003244	HAR1A	Highly accelerated region 1A (non-protein coding)
B12	N/A	ENST00000447910	HAR1B	Highly accelerated region 1B (non-protein coding)
C01	N/A	NR_045680	HEIH	Hepatocellular carcinoma up-regulated EZH2-associated long non-coding RNA
C02	Hs.197076	NR_003716	HOTAIR	Hox transcript antisense RNA (non-protein coding)
C03	N/A	ENST00000425358	HOTAIRM1	HOXA transcript antisense RNA, myeloid-specific 1
C04	N/A	ENST00000421733	HOTTIP	HOXA distal transcript antisense RNA
C05	Hs.587427	NR_002795	HOXA11-AS	HOXA11 antisense RNA 1 (non-protein coding)
C06	N/A	ENST00000517550	HOXA-AS2	HOXA cluster antisense RNA 2

Position	UniGene	GenBank	Symbol	Description
C07	N/A	ENST00000518848	HOXA-AS3	HOXA cluster antisense RNA 3
C08	N/A	ENST00000503668	HULC	Hepatocellular carcinoma up-regulated long non-coding RNA
C09	Hs.716962	NR_028043	IGF2-AS	Insulin-like growth factor 2 antisense
C10	N/A	NR_023915	IPW	Imprinted in Prader-Willi syndrome (non-protein coding)
C11	N/A	ENST00000414209	JPX	JPX transcript, XIST activator (non-protein coding)
C12	N/A	NR_002813	KCNIP4-IT1	KCNIP4 intronic transcript 1 (non-protein coding)
D01	Hs.741312	NR_002728	KCNQ1OT1	KCNQ1 overlapping transcript 1 (non-protein coding)
D02	N/A	ENST00000407852	KRASP1	Kirsten rat sarcoma viral oncogene homolog pseudogene 1 [Source:HGNC Symbol;Acc:6406]
D03	N/A	ENST00000416894	LINC00568	Long intergenic non-protein coding RNA 568
D04	N/A	ENST00000417473	LINC00570	Long intergenic non-protein coding RNA 570
D05	N/A	NR_103790	LINC00581	Long intergenic non-protein coding RNA 581
D06	Hs.12513	NR_024281	LINC00599	Hypothetical LOC157627
D07	N/A	ENST00000429328	LINC00853	Long intergenic non-protein coding RNA 853
D08	N/A	ENST00000553704	LINC-ROR	Long intergenic non-protein coding RNA, regulator of reprogramming
D09	N/A	ENST00000511918	LUCAT1	Lung cancer associated transcript 1 (non-protein coding)
D10	Hs.642877	NR_002819	MALAT1	Metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
D11	Hs.654863	NR_002766	MEG3	Maternally expressed 3 (non-protein coding)
D12	N/A	ENST00000429368	MEG9	Maternally expressed 9 (non-protein coding)
E01	Hs.517502	NR_003491	MIAT	Myocardial infarction associated transcript (non-protein coding)
E02	N/A	ENST00000419080	MRPL23-AS1	MRPL23 antisense RNA 1
E03	N/A	NR_102270	NAMA	Non-protein coding RNA, associated with MAP kinase pathway and growth arrest
E04	N/A	NR_028272	NEAT1	Nuclear paraspeckle assembly transcript 1 (non-protein coding)
E05	N/A	ENST00000517270	NRON	Non-protein coding RNA, repressor of NFAT
E06	N/A	ENST00000500949	OIP5-AS1	OIP5 antisense RNA 1
E07	N/A	ENST00000534909	OTX2-AS1	OTX2 antisense RNA 1 (head to head)
E08	N/A	NR_109836	PANDAR	Promoter of CDKN1A antisense DNA damage activated RNA
E09	N/A	ENST00000519319	PCAT1	Prostate cancer associated transcript 1 (non-protein coding)
E10	Hs.546994	NR_002769	PCGEM1	Prostate-specific transcript 1 (non-protein coding)
E11	N/A	AK022045	PRINS	Psoriasis associated non-protein coding RNA induced by stress
E12	N/A	AK023948	PTCSC1	Papillary thyroid carcinoma susceptibility candidate 1 (non-protein coding)
F01	N/A	ENST00000556013	PTCSC3	Papillary thyroid carcinoma susceptibility candidate 3 (non-protein coding)
F02	Hs.493716	NR_023917	PTENP1	Phosphatase and tensin homolog pseudogene 1
F03	N/A	NR_103745	PTENP1-AS	PTENP1 antisense RNA
F04	N/A	NR_045388	RBM5-AS1	RBM5 antisense RNA 1
F05	N/A	NR_024037	RMST	Rhabdomyosarcoma 2 associated transcript (non-protein coding)
F06	N/A	ENST00000455390	RPS6KA2-AS1	RPS6KA2 antisense RNA 1 [Source:HGNC Symbol;Acc:40511]
F07	N/A	ENST00000419364	SIX3-AS1	SIX3 antisense RNA 1
F08	N/A	NR_038108	SNHG16	Small nucleolar RNA host gene 16 (non-protein coding)
F09	N/A	ENST00000410534	SOX2-OT	SOX2 overlapping transcript (non-protein coding)
F10	N/A	AK024556	SPRY4-IT1	SPRY4 intronic transcript 1 (non-protein coding)
F11	N/A	ENST00000456775	ST7-AS1	ST7 antisense RNA 1
F12	N/A	NR_002331	ST7-AS2	ST7 antisense RNA 2
G01	N/A	ENST00000363312	TERC	Telomerase RNA component
G02	Hs.515575	NR_027064	TINCR	Placenta-specific 2 (non-protein coding)
G03	N/A	ENST00000496733	TMEM161B-AS1	TMEM161B antisense RNA 1
G04	N/A	ENST00000431460	TRERNA1	Translation regulatory long non-coding RNA 1
G05	Hs.529901	NR_003255	TSIX	TSIX transcript, XIST antisense RNA (non-protein coding)
G06	Hs.554829	NR_002323	TUG1	Taurine upregulated 1 (non-protein coding)

Position	UniGene	GenBank	Symbol	Description
G07	N/A	ENST00000503525	TUNAR	TCL1 upstream neural differentiation-associated RNA
G08	N/A	ENST00000466156	TUSC7	Tumor suppressor candidate 7 (non-protein coding)
G09	Hs.644234	NR_015379	UCA1	Urothelial cancer associated 1 (non-protein coding)
G10	Hs.567499	NR_023920	WT1-AS	WT1 antisense RNA (non-protein coding)
G11	Hs.529901	NR_001564	XIST	X (inactive)-specific transcript (non-protein coding)
G12	Hs.356766	NR_003604	ZFAS1	ZNFX1 antisense RNA 1
H01	Hs.520640	NM_001101	ACTB	Actin, beta
H02	Hs.534255	NM_004048	B2M	Beta-2-microglobulin
H03	Hs.546285	NM_001002	RPLP0	Ribosomal protein, large, P0
H04	N/A	NR_001445	RN7SK	RNA, 7SK small nuclear
H05	N/A	NR_002907	SNORA73A	Small nucleolar RNA, H/ACA box 73A
H06	N/A	SA_00105	HGDC	Human 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

Functional Gene Groupings:

Cancer Associated lncRNAs: AIRN, BANCR, BCYRN1, BOK-AS1, CCAT1, CCAT2, CDKN2B-AS1, DLX6-AS1, EMX2OS, FAS-AS1, FTX, GACAT1, GAS5, GNAS-AS1, H19, HEIH, HOTAIR, HOTAIRM1, HOTTIP, HOXA11-AS, HOXA-AS2, HULC, IPW, KCNQ1OT1, KRASP1, LUCAT1, MALAT1, MEG3, MRPL23-AS1, NAMA, NEAT1, NRON, PANDAR, PCAT1, PCGEM1, PTCSC1, PTCSC3, PTENP1, RMST, RPS6KA2-AS1, SNHG16, SPRY4-IT1, TERC, TRERNA1, TSIX, TUG1, TUSC7, UCA1, WT1-AS, XIST, ZFAS1.

Other Disease-Related lncRNAs: ATXN8OS, BCYRN1, DISC2, LINC00581, PRINS.

Cell Differentiation & Development Related lncRNAs: AIRN, BDNF-AS, DANCR, DIO3OS, DLX6-AS1, EGOT, EMX2OS, FENDRR, GAS5, H19, HAR1A, HAR1B, HOTAIR, HOTAIRM1, HOTTIP, HOXA11-AS, HOXA-AS2, HOXA-AS3, IGF2-AS, IPW, JPX, KCNIP4-IT1, KCNQ1OT1, LINC00568, LINC00599, LINC-ROR, MALAT1, MEG3, MEG9, MIAT, NEAT1, OIP5-AS1, OTX2-AS1, RMST, SIX3-AS1, SOX2-OT, TINCR, TMEM161B-AS1, TSIX, TUG1, TUNAR, UCA1, WT1-AS, XIST, ZFAS1.

Inflammatory Response & Autoimmunity Related lncRNAs: GAS5, HOTAIR, JPX, MALAT1, MEG3, NEAT1, OIP5-AS1, RMST, SNHG16, TUG1, XIST, ZFAS1.

Other Early Discovered & Characterized lncRNAs: LINC00570, LINC00853, PTENP1-AS, RBM5-AS1, ST7-AS1, ST7-AS2.

Related products

For optimal performance, RT² lncRNA 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 First Strand Kit (50)	Enzymes and reagents for cDNA synthesis	330404
RT² SYBR Green qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with real-time cyclers that do not require a reference dye, including: Bio-Rad models CFX96, CFX384, DNA Engine Opticon 2; Bio-Rad/MJ Research Chromo4; Roche LightCycler 480 (96-well and 384-well); all other cyclers	330500
RT² lncRNA qPCR Assays	Laboratory-verified qPCR assays for lncRNA expression	Varies
RT² SYBR Green ROX™ qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 5700, 7000, 7300, 7500 [Standard and FAST], 7700, 7900HT 96-well block [Standard and FAST] and 384-well block, StepOnePlus; Eppendorf Mastercycler ep realplex models 2, 2S, 4, 4S; Stratagene models Mx3000P, Mx3005P, Mx4000; Takara TP-800	330520
RT² SYBR Green Fluor qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler, iQ5, MyiQ, MyiQ2	330510

* Larger kit sizes available; please inquire

RT² lncRNA 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 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.

Find out more at www.qiagen.com/search/rt2-lncRNA-pcr-arrays!

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