RT² lncRNA PCR Array (Rotor-Gene® Format)

Mouse lncFinder RT2 lncRNA PCR Array

Cat. no. 330721 LAMM-001ZR

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 R	**Rotor-Gene Q, other Rotor-Gene cyclers**

Description

The Mouse 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

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 lncRNA PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.28895	ENSMUST00000172501	1110038B12Rik	RIKEN cDNA 1110038B12 gene
A02	Mm.217880	ENSMUST00000180923	1700007L15Rik	RIKEN cDNA 1700007L15 gene
A03	N/A	NR_038141	1700008K24Rik	RIKEN cDNA 1700008K24 gene
A04	Mm.379181	ENSMUST00000147425	1700020I14Rik	RIKEN cDNA 1700020I14 gene
A05	N/A	NR_040486	1810053B23Rik	RIKEN cDNA 1810053B23 gene
A06	N/A	ENSMUST00000123149	2210408F21Rik	RIKEN cDNA 2210408F21 gene
A07	Mm.391160	ENSMUST00000181612	2700046G09Rik	RIKEN cDNA 2700046G09 gene
A08	Mm.392282	ENSMUST00000180779	5430416N02Rik	RIKEN cDNA 5430416N02 gene
A09	Mm.359054	ENSMUST00000098901	6820431F20Rik	Cadherin 11 pseudogene
A10	N/A	ENSMUST00000181107	9530059O14Rik	RIKEN cDNA 9530059O14 gene
A11	Mm.399924	ENSMUST00000180639	A330009N23Rik	RIKEN cDNA A330009N23 gene
A12	Mm.194050	ENSMUST00000180610	A930011O12Rik	RIKEN cDNA A930011O12 gene
B01	Mm.347584	ENSMUST00000070085	AI504432	Expressed sequence AI504432
B02	Mm.205125	NR_015554	AI506816	Expressed sequence AI506816
B03	Mm.41661	ENSMUST00000180881	AI854517	Expressed sequence AI854517
B04	Mm.26553	ENSMUST00000079529	Airn	Antisense Igf2r RNA
B05	Mm.245636	ENSMUST00000052354	C130071C03Rik	RIKEN cDNA C130071C03 gene
B06	Mm.86664	ENSMUST00000034183	Crnde	Colorectal neoplasia differentially expressed (non-protein coding)
B07	N/A	ENSMUST00000180800	D130020L05Rik	RIKEN cDNA D130020L05 gene
		ENSMUST00000		

Position	UniGene	GenBank	Symbol	Description
B08	Mm.479394	181693	Dio3os	Deiodinase, iodothyronine type III, opposite strand
B09	Mm.473427	ENSMUST00000 180377	Dleu2	Deleted in lymphocytic leukemia, 2
B10	N/A	ENSMUST00000 122990	Dlx1as	Distal-less homeobox 1, antisense
B11	Mm.94021	ENSMUST00000 159113	Dlx6os1	Dlx6 opposite strand transcript 1
B12	N/A	NR_105051	Dreh	Down-regulated in hepatocellular carcinoma
C01	N/A	ENSMUST00000 136990	Emx2os	Emx2 opposite strand/antisense transcript (non-protein coding)
C02	Mm.246916	ENSMUST00000 181231	Fendrr	Foxf1 adjacent non-coding developmental regulatory RNA
C03	N/A	ENSMUST00000 124842	Firre	Functional intergenic repeating RNA element
C04	N/A	ENSMUST00000 123841	Ftx	Ftx transcript, Xist regulator (non-protein coding)
C05	N/A	ENSMUST00000 180509	G730013B05 Rik	RIKEN cDNA G730013B05 gene
C06	Mm.486180	ENSMUST00000 065709	Gas5	Growth arrest specific 5
C07	N/A	ENSMUST00000 125354	Gm14005	Predicted gene 14005
C08	N/A	ENSMUST00000 129546	Gm15051	Predicted gene 15051 [Source:MGI Symbol;Acc:MGI:3705155]
C09	N/A	ENSMUST00000 146314	Gm15832	Predicted gene 15832 [Source:MGI Symbol;Acc:MGI:3834078]
C10	Mm.487858	ENSMUST00000 134998	Gm15850	Predicted gene 15850
C11	Mm.490185	ENSMUST00000 180517	Gm16938	Predicted gene, 16938
C12	N/A	ENSMUST00000 182477	Gm17750	Predicted gene, 17750
D01	N/A	ENSMUST00000 183083	Gm20748	Predicted gene, 20748
D02	Mm.213632	ENSMUST00000 180700	Gm2694	Predicted gene 2694
D03	N/A	ENSMUST00000 177636	Gm9866	Predicted gene 9866
D04	N/A	ENSMUST00000 124246	Gt(ROSA)26S or	Gene trap ROSA 26, Philippe Soriano
D05	Mm.490776	NR_001592	H19	H19 fetal liver mRNA
D06	N/A	ENSMUST00000 151949	Hotair	HOX transcript antisense RNA (non-protein coding)
D07	N/A	ENSMUST00000 141300	Hottip	Hoxa distal transcript antisense RNA
D08	Mm.469918	ENSMUST00000 134512	Hoxa11os	HOXA11 antisense RNA (non-protein coding)
D09	Mm.440180	ENSMUST00000 124393	Igf2os	Insulin-like growth factor 2, antisense
D10	Mm.491385	NR_015351	Ipw	Imprinted gene in the Prader-Willi syndrome region
D11	N/A	ENSMUST00000 181020	Jpx	Jpx transcript, Xist activator (non-protein coding)
D12	N/A	NR_001461	Kcnq1ot1	KCNQ1 overlapping transcript 1
E01	N/A	ENSMUST00000 172812	Malat1	Metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)
E02	Mm.442513	ENSMUST00000 124106	Meg3	Maternally expressed 3
E03	Mm.44854	ENSMUST00000 181535	Miat	Myocardial infarction associated transcript (non-protein coding)
E04	Mm.486199	ENSMUST00000 181496	Mirg	MiRNA containing gene
E05	N/A	NR_027920	Msx1os	Msh homeobox 1 opposite strand
E06	Mm.484097	ENSMUST00000 058665	Mtag2	Metastasis associated gene 2
E07	Mm.265130	ENSMUST00000 123668	Nctc1	Non-coding transcript 1
E08	N/A	ENSMUST00000 173672	Neat1	Nuclear paraspeckle assembly transcript 1 (non-protein coding)
E09	N/A	ENSMUST00000 143738	Nespas	Neuroendocrine secretory protein antisense
E10	N/A	ENSMUST00000	Nkx2-2os	NK2 homeobox 2, opposite strand

Position	UniGene	GenBank	Symbol	Description
		136998		
E11	N/A	ENSMUST00000 140412	Nron	Non-protein coding RNA, repressor of NFAT
E12	N/A	ENSMUST00000 183522	Otx2os1	Orthodenticle homolog 2 opposite strand 1
F01	N/A	NR_003202	Pinc	Pregnancy induced noncoding RNA
F02	Mm.159038	ENSMUST00000 036304	Pldi	Polymorphic derived intron containing
F03	Mm.4608	ENSMUST00000 180432	Pvt1	Plasmacytoma variant translocation 1
F04	Mm.309774	ENSMUST00000 049684	Rab10os	RAB10, member RAS oncogene family, opposite strand
F05	Mm.293263	ENSMUST00000 180876	Rian	RNA imprinted and accumulated in nucleus
F06	Mm.429764	ENSMUST00000 181213	Rmst	Rhabdomyosarcoma 2 associated transcript (non-coding RNA)
F07	Mm.150838	ENSMUST00000 159030	Six3os1	Six3 opposite strand transcript 1
F08	N/A	ENSMUST00000 180819	Snhg1	Small nucleolar RNA host gene 1
F09	N/A	ENSMUST00000 181664	Snhg4	Small nucleolar RNA host gene 4
F10	Mm.21798	ENSMUST00000 180563	Snhg5	Small nucleolar RNA host gene 5
F11	N/A	ENSMUST00000 182043	Snhg6	Small nucleolar RNA host gene 6
F12	N/A	ENSMUST00000 180659	Snhg7	Small nucleolar RNA host gene 7
G01	N/A	NR_028574	Snhg8	Small nucleolar RNA host gene 8
G02	N/A	ENSMUST00000 163261	Sox2ot	SOX2 overlapping transcript (non-protein coding)
G03	N/A	NR_104123	Tmevpg1	Theiler's murine encephalomyelitis virus persistence candidate gene 1
G04	N/A	ENSMUST00000 133221	Trp53cor1	Tumor protein p53 pathway corepressor 1
G05	N/A	ENSMUST00000 152916	Tsix	X (inactive)-specific transcript, opposite strand
G06	N/A	ENSMUST00000 132077	Tug1	Taurine upregulated gene 1
G07	N/A	ENSMUST00000 180458	Tunar	Tcl1 upstream neural differentiation associated RNA
G08	N/A	ENSMUST00000 152002	Uchl1os	Ubiquitin carboxy-terminal hydrolase L1, opposite strand
G09	Mm.491552	ENSMUST00000 123402	Vax2os	Vax2 opposite strand transcript 1
G10	N/A	ENSMUST00000 099647	Wt1os	Wilms tumor 1 homolog, opposite strand
G11	Mm.472939	ENSMUST00000 127786	Xist	Inactive X specific transcripts
G12	N/A	ENSMUST00000 176872	Zfhx2os	Zinc finger homeobox 2, opposite strand
H01	Mm.391967	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.5286	NM_007475	Rplp0	Ribosomal protein, large, P0
H04	N/A	ENSMUST00000 083103	Rn7sk	RNA, 7SK, nuclear
H05	N/A	ENSMUST00000 083419	Snora73b	Small nucleolar RNA, H/ACA box 73b
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

Functional Gene Groupings:

Cancer Associated lncRNAs: 1700020I14Rik, 9530059O14Rik, A930011O12Rik, AI504432, Airn, C130071C03Rik, Crnde, Dleu2, Dreh, Emx2os, Firre, Ftx, Gas5, Gm15051, Gm15832, H19, Hotair, Hottip, Hoxa11os, Ipw, Jpx, Kcnq1ot1, Malat1, Meg3, Miat, Mtag2, Neat1, Nespas, Nron, Pvt1, Rian, Rmst, Trp53cor1, Tsix, Tug1, Wt1os, Xist.

Other Disease-Related lncRNAs: 2210408F21Rik, 2700046G09Rik, AI506816, D130020L05Rik, Gm14005, Snhg4, Snhg6.

Cell Differentiation & Development Related lncRNAs: 1700007L15Rik, 1700020I14Rik, 5430416N02Rik, 6820431F20Rik, A330009N23Rik, A930011O12Rik, AI506816, AI854517, Airn, C130071C03Rik, Crnde, D130020L05Rik, Dio3os, Dlx1as, Dlx6os1, Emx2os, Fendrr, Firre, G730013B05Rik, Gas5, Gm14005, Gm15051, Gm15850, Gm17750, Gm20748, Gm2694, Gm9866, Gt(ROSA)26Sor, H19, Hotair, Hottip, Hoxa11os, Igf2os, Ipw, Jpx, Kcnq1ot1, Malat1, Meg3, Miat, Mirg, Msx1os, Nctc1, Neat1, Nkx2-2os, Otx2os1, Pinc, Pldi, Rab10os, Rian, Rmst, Six3os1, Snhg4, Snhg6, Snhg7, Snhg8, Sox2ot, Tmevpg1, Tsix, Tug1, Tunar, Vax2os, Wt1os, Xist, Zfhx2os.

Inflammatory Response & Autoimmunity Related lncRNAs: 1700020I14Rik, 6820431F20Rik, 9530059O14Rik, AI504432, C130071C03Rik, Dleu2, Dlx1as, Firre, Gas5, Gm15832, Hotair, Jpx, Malat1, Meg3, Neat1, Rmst, Snhg1, Snhg5, Snhg7, Tug1, Xist.

Other Early Discovered & Characterized lncRNAs: 1110038B12Rik, 1700008K24Rik, 1810053B23Rik, Gm16938, Uchl1os.

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!

www.qiagen.com

Australia ■ 1-800-243-800
Austria ■ 0800-281011
Belgium ■ 0800-79612
Brazil ■ 0800-557779
Canada ■ 800-572-9613
China ■ 800-988-0325
Denmark ■ 80-885945
Finland ■ 0800-914416
France ■ 01-60-920-930
Germany ■ 02103-29-12000
Hong Kong ■ 800 933 965
India ■ 1-800-102-4114
Ireland ■ 1800 555 049
Italy ■ 800-787980
Japan ■ 03-6890-7300
Korea (South) ■ 080-000-7145
Luxembourg ■ 8002 2076
Malaysia ■ 603-7981-5510
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
Taiwan ■ 0800-665-957
UK ■ 0808-234-3665
USA ■ 800-426-8157