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

Mouse Inflammatory Response & Autoimmunity

Cat. no. 330721 LAMM-004Z

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 Mouse Inflammatory Response & Autoimmunity RT² lncRNA PCR Array profiles the expression of 84 lncRNAs verified or predicted to regulate the expression of proinflammatory and antiinflammatory genes and microRNA. This array provides researchers with a convenient and accurate way to quickly analyze the lncRNAs most likely to be relevant to inflammatory responses and immune disorders. These lncRNAs have been carefully selected for their potential ability, based on bioinformatics algorithms and experimental data, to regulate microRNA likely relevant to inflammation. The relevant miRNA have been identified based on algorithm-predicted and experimentally-verified miRNA-target inflammation gene associations available in databases. The profiling results from this array can serve as a useful molecular marker for the study of normal and pathological inflammation. The results may also provide a deeper understanding of the molecular mechanisms regulating inflammation and inflammatory gene and microRNA expression by lncRNA. 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 a focused panel of lncRNAs predicted to regulate inflammatory and autoimmune response genes 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	1500012K07Rik	1700020I14Rik	1810019N24Rik	1810058I24Rik	2010300F17Rik	2210406O10Rik	2310001H17Rik	2500004C02Rik	2900041M22Rik	4632427E13Rik	4921504A21Rik	4930470G03Rik
B	4930554H23Rik	4930555B11Rik	4930558J18Rik	4931440J10Rik	4932412D23Rik	4933407K13Rik	4933427G23Rik	5530601H04Rik	5730480H06Rik	5830418P13Rik	5830432E09Rik	6820431F20Rik
C	9330158H04Rik	9430037G07Rik	9530052C20Rik	9530059O14Rik	9630001P10Rik	A230107N01Rik	A330023F24Rik	A430010J10Rik	A430108G06Rik	A930024N18Rik	Atxn7l1os2	C130021I20Rik
D	C130071C03Rik	C230088H06Rik	C330013F16Rik	Ccdc41os1	Chd3os	D430036J16Rik	D930015M05Rik	Dleu2	Dlx1as	Firre	Gas5	Gm12116
E	Gm13111	Gm14204	Gm14379	Gm14705	Gm15050	Gm15832	Gm16023	Gm16575	Gm16754	Gm16892	Gm16933	Gm16998
F	Gm17275	Gm17337	Gm17354	Gm17388	Gm17473	Gm17586	Gm4117	Gm4211	Gm5602	Gm6410	Gm6999	Hotair
G	Jpx	Malat1	Meg3	Neat1	Pcsk2os1	Peg13	Redrum	Rmst	Slc2a4rg-ps	Tug1	Xist	Zfa-ps
H	Actb	B2m	Rplp0	Rn7sk	Snora73b	MGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² lncRNA PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.46960	ENSMUST00000181846	1500012K07Rik	RIKEN cDNA 1500012K07 gene
A02	Mm.379181	ENSMUST00000147425	1700020I14Rik	RIKEN cDNA 1700020I14 gene
A03	Mm.7290	ENSMUST00000181128	1810019N24Rik	RIKEN cDNA 1810019N24 gene
A04	N/A	ENSMUST00000130875	1810058I24Rik	RIKEN cDNA 1810058I24 gene
A05	N/A	ENSMUST00000180492	2010300F17Rik	RIKEN cDNA 2010300F17 gene [Source:MGI Symbol;Acc:MGI:1917134]
A06	N/A	ENSMUST00000044964	2210406O10Rik	RIKEN cDNA 2210406O10 gene
A07	Mm.261738	ENSMUST00000180379	2310001H17Rik	RIKEN cDNA 2310001H17 gene
A08	N/A	ENSMUST00000125345	2500004C02Rik	RIKEN cDNA 2500004C02 gene
A09	Mm.212543	ENSMUST00000155384	2900041M22Rik	RIKEN cDNA 2900041M22 gene
A10	Mm.490939	ENSMUST00000098305	4632427E13Rik	RIKEN cDNA 4632427E13 gene
A11	N/A	ENSMUST00000180594	4921504A21Rik	RIKEN cDNA 4921504A21 gene
A12	N/A	ENSMUST00000122926	4930470G03Rik	RIKEN cDNA 4930470G03 gene [Source:MGI Symbol;Acc:MGI:1922171]
B01	N/A	ENSMUST00000181327	4930554H23Rik	RIKEN cDNA 4930554H23 gene
B02	N/A	ENSMUST00000123210	4930555B11Rik	RIKEN cDNA 4930555B11 gene
B03	N/A	ENSMUST00000181949	4930558J18Rik	RIKEN cDNA 4930558J18 gene
B04	N/A	ENSMUST00000181344	4931440J10Rik	RIKEN cDNA 4931440J10 gene
B05	N/A	ENSMUST00000099759	4932412D23Rik	RIKEN cDNA 4932412D23 gene
B06	N/A	ENSMUST00000129980	4933407K13Rik	RIKEN cDNA 4933407K13 gene
B07	Mm.490188	ENSMUST00000122963	4933427G23Rik	RIKEN cDNA 4933427G23 gene

Position	UniGene	GenBank	Symbol	Description
B08	Mm.242968	ENSMUST00000123850	5530601H04Rik	RIKEN cDNA 5530601H04 gene
B09	N/A	ENSMUST00000176521	5730480H06Rik	RIKEN cDNA 5730480H06 gene
B10	N/A	ENSMUST00000143564	5830418P13Rik	RIKEN cDNA 5830418P13 gene
B11	N/A	ENSMUST00000180693	5830432E09Rik	RIKEN cDNA 5830432E09 gene
B12	Mm.359054	ENSMUST00000098901	6820431F20Rik	Cadherin 11 pseudogene
C01	Mm.226434	ENSMUST00000101535	9330158H04Rik	RIKEN cDNA 9330158H04 gene
C02	N/A	ENSMUST00000180723	9430037G07Rik	RIKEN cDNA 9430037G07 gene
C03	N/A	ENSMUST00000181882	9530052C20Rik	RIKEN cDNA 9530052C20 gene [Source:MGI Symbol;Acc:MGI:2443632]
C04	N/A	ENSMUST00000181107	9530059O14Rik	RIKEN cDNA 9530059O14 gene
C05	Mm.402857	ENSMUST00000181083	9630001P10Rik	RIKEN cDNA 9630001P10 gene
C06	N/A	ENSMUST00000180894	A230107N01Rik	RIKEN cDNA A230107N01 gene
C07	Mm.99905	ENSMUST00000181226	A330023F24Rik	RIKEN cDNA A330023F24 gene
C08	Mm.275995	ENSMUST00000181304	A430010J10Rik	RIKEN cDNA A430010J10 gene
C09	N/A	ENSMUST00000153461	A430108G06Rik	RIKEN cDNA A430108G06 gene
C10	N/A	ENSMUST00000181251	A930024N18Rik	RIKEN cDNA A930024N18 gene [Source:MGI Symbol;Acc:MGI:4360907]
C11	N/A	ENSMUST00000138617	Atxn7l1os2	Ataxin 7-like 1, opposite strand 2
C12	Mm.72070	ENSMUST00000147294	C130021I20Rik	Riken cDNA C130021I20 gene
D01	Mm.245636	ENSMUST00000052354	C130071C03Rik	RIKEN cDNA C130071C03 gene
D02	N/A	ENSMUST00000181084	C230088H06Rik	RIKEN cDNA C230088H06 gene [Source:MGI Symbol;Acc:MGI:2444536]
D03	Mm.439073	ENSMUST00000126339	C330013F16Rik	RIKEN cDNA C330013F16 gene
D04	Mm.116284	ENSMUST00000181906	Ccdc41os1	RIKEN cDNA 4932415G12 gene
D05	Mm.5324	ENSMUST00000129321	Chd3os	RIKEN cDNA A030009H04 gene
D06	N/A	ENSMUST00000180663	D430036J16Rik	RIKEN cDNA D430036J16 gene
D07	N/A	ENSMUST00000126002	D930015M05Rik	RIKEN cDNA D930015M05 gene
D08	Mm.473427	ENSMUST00000180377	Dleu2	Deleted in lymphocytic leukemia, 2
D09	N/A	ENSMUST00000122990	Dlx1as	Distal-less homeobox 1, antisense
D10	N/A	ENSMUST00000124842	Firre	Functional intergenic repeating RNA element
D11	Mm.486180	ENSMUST00000065709	Gas5	Growth arrest specific 5
D12	N/A	ENSMUST00000131851	Gm12116	Predicted gene 12116 [Source:MGI Symbol;Acc:MGI:3652289]
E01	N/A	ENSMUST00000136217	Gm13111	Predicted gene 13111
E02	N/A	ENSMUST00000123016	Gm14204	Predicted gene 14204
E03	N/A	ENSMUST00000128858	Gm14379	Predicted gene 14379
E04	N/A	ENSMUST00000154109	Gm14705	Predicted gene 14705 [Source:MGI Symbol;Acc:MGI:3705152]
E05	N/A	ENSMUST00000133723	Gm15050	Predicted gene 15050 [Source:MGI Symbol;Acc:MGI:3705180]
E06	N/A	ENSMUST00000146314	Gm15832	Predicted gene 15832 [Source:MGI Symbol;Acc:MGI:3834078]
E07	N/A	ENSMUST00000	Gm16023	Predicted gene 16023

Position	UniGene	GenBank	Symbol	Description
		137752		
E08	N/A	ENSMUST00000 162186	Gm16575	Predicted gene 16575 [Source:MGI Symbol;Acc:MGI:4414995]
E09	N/A	ENSMUST00000 181222	Gm16754	Predicted gene, 16754 [Source:MGI Symbol;Acc:MGI:4439678]
E10	N/A	ENSMUST00000 180999	Gm16892	Predicted gene, 16892 [Source:MGI Symbol;Acc:MGI:4439816]
E11	N/A	ENSMUST00000 141741	Gm16933	Predicted gene, 16933 [Source:MGI Symbol;Acc:MGI:4439857]
E12	N/A	ENSMUST00000 181899	Gm16998	Predicted gene, 16998
F01	N/A	ENSMUST00000 181811	Gm17275	Predicted gene, 17275 [Source:MGI Symbol;Acc:MGI:4936909]
F02	N/A	ENSMUST00000 171380	Gm17337	Predicted gene, 17337 [Source:MGI Symbol;Acc:MGI:4936971]
F03	N/A	ENSMUST00000 170933	Gm17354	Predicted gene, 17354 [Source:MGI Symbol;Acc:MGI:4936988]
F04	N/A	ENSMUST00000 180855	Gm17388	Predicted gene, 17388
F05	N/A	ENSMUST00000 180585	Gm17473	Predicted gene, 17473 [Source:MGI Symbol;Acc:MGI:4937107]
F06	N/A	ENSMUST00000 181502	Gm17586	Predicted gene, 17586 [Source:MGI Symbol;Acc:MGI:4937220]
F07	Mm.387088	ENSMUST00000 044500	Gm4117	Predicted gene 4117
F08	N/A	ENSMUST00000 181103	Gm4211	Predicted gene 4211
F09	Mm.334269	ENSMUST00000 146366	Gm5602	Predicted gene 5602
F10	Mm.367743	ENSMUST00000 181337	Gm6410	Predicted gene 6410
F11	N/A	ENSMUST00000 180427	Gm6999	Predicted gene 6999 [Source:MGI Symbol;Acc:MGI:3647443]
F12	N/A	ENSMUST00000 151949	Hotair	HOX transcript antisense RNA (non-protein coding)
G01	N/A	ENSMUST00000 181020	Jpx	Jpx transcript, Xist activator (non-protein coding)
G02	N/A	ENSMUST00000 172812	Malat1	Metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)
G03	Mm.442513	ENSMUST00000 124106	Meg3	Maternally expressed 3
G04	N/A	ENSMUST00000 173672	Neat1	Nuclear paraspeckle assembly transcript 1 (non-protein coding)
G05	N/A	ENSMUST00000 126735	Pcsk2os1	Proprotein convertase subtilisin/kexin type 2, opposite strand 1
G06	Mm.440245	NR_002864	Peg13	Paternally expressed 13
G07	N/A	ENSMUST00000 181269	Redrum	Redrum, erythroid developmental long intergenic non-protein coding transcript
G08	Mm.429764	ENSMUST00000 181213	Rmst	Rhabdomyosarcoma 2 associated transcript (non-coding RNA)
G09	Mm.386906	ENSMUST00000 127559	Slc2a4rg-ps	Slc2a4 regulator, pseudogene
G10	N/A	ENSMUST00000 132077	Tug1	Taurine upregulated gene 1
G11	Mm.472939	ENSMUST00000 127786	Xist	Inactive X specific transcripts
G12	Mm.490597	ENSMUST00000 055516	Zfa-ps	Zinc finger protein, autosomal
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 Grouping:

Acute-Phase Response: 1500012K07Rik, 1700020I14Rik, 1810019N24Rik, 1810058I24Rik, 2010300F17Rik, 2310001H17Rik, 2500004C02Rik, 4632427E13Rik, 4921504A21Rik, 4932412D23Rik, 4933407K13Rik, 4933427G23Rik, 5530601H04Rik, 8430419K02Rik, 9330158H04Rik, A930024N18Rik, C130021I20Rik, C130071C03Rik, C230088H06Rik, C330013F16Rik, Chd3os, D430036J16Rik, Dlx1as, Firre, Gm13111, Gm16575, Gm16933, Gm16998, Gm17275, Gm17473, Gm4117, Gm4211, Gm6410, Gm6999, Hotair, Malat1, Neat1, Pcsk2os1, Redrum, Tug1, Xist.

Autoimmunity: 1500012K07Rik, 1700020I14Rik, 1810019N24Rik, 1810058I24Rik, 2010300F17Rik, 2210406O10Rik, 2310001H17Rik, 2500004C02Rik, 2900041M22Rik, 4921504A21Rik, 4930470G03Rik, 4930554H23Rik, 4930555B11Rik, 4930558J18Rik, 4931440J10Rik, 4932412D23Rik, 4933407K13Rik, 4933427G23Rik, 5530601H04Rik, 5730480H06Rik, 5830418P13Rik, 5830432E09Rik, 8430419K02Rik, 9330158H04Rik, 9530052C20Rik, 9530059O14Rik, 9630001P10Rik, A230107N01Rik, A430010J10Rik, A430108G06Rik, A930024N18Rik, AI504432, Atxn7l1os2, C130021I20Rik, C130071C03Rik, C230088H06Rik, C330013F16Rik, Ccdc41os1, Chd3os, D430036J16Rik, D930015M05Rik, Dleu2, Dlx1as, Gm12116, Gm13111, Gm14204, Gm14379, Gm14705, Gm15050, Gm16023, Gm16575, Gm16754, Gm16933, Gm16998, Gm17275, Gm17337, Gm17354, Gm17388, Gm17473, Gm17586, Gm4117, Gm4211, Gm5602, Gm6410, Gm6999, Hotair, Malat1, Neat1, Pcsk2os1, Peg13, Redrum, Snhg1, Snhg7, Tug1, Xist.

Humoral Immune Response: 1500012K07Rik, 1700020I14Rik, 1810019N24Rik, 1810058I24Rik, 2010300F17Rik, 2210406O10Rik, 2310001H17Rik, 2500004C02Rik, 2900041M22Rik, 4632427E13Rik, 4921504A21Rik, 4930470G03Rik, 4930558J18Rik, 4932412D23Rik, 4933407K13Rik, 4933427G23Rik, 5530601H04Rik, 5730480H06Rik, 5830418P13Rik, 5830432E09Rik, 6820431F20Rik, 8430419K02Rik, 9330158H04Rik, 9530052C20Rik, 9530059O14Rik, 9630001P10Rik, A330023F24Rik, A430108G06Rik, A930024N18Rik, AI504432, Atxn7l1os2, C130021I20Rik, C130071C03Rik, C230088H06Rik, C330013F16Rik, Ccdc41os1, Chd3os, D430036J16Rik, D930015M05Rik, Dlx1as, Firre, Gm12116, Gm13111, Gm14379, Gm14705, Gm15050, Gm16023, Gm16575, Gm16892, Gm16933, Gm16998, Gm17275, Gm17337, Gm17354, Gm17388, Gm17473, Gm17586, Gm4117, Gm4211, Gm5602, Gm6410, Gm6999, Hotair, Malat1, Meg3, Neat1, Pcsk2os1, Peg13, Redrum, Rmst, Rps15a-ps4, Slc2a4rg-ps, Snhg1, Snhg7, Tug1, Xist.

Inflammatory Responses: 1500012K07Rik, 1700020I14Rik, 1810019N24Rik, 1810058I24Rik, 2010300F17Rik, 2210406O10Rik, 2310001H17Rik, 2500004C02Rik, 2900041M22Rik, 4921504A21Rik, 4930470G03Rik, 4930554H23Rik, 4930558J18Rik, 4931440J10Rik, 4932412D23Rik, 4933407K13Rik, 4933427G23Rik, 5530601H04Rik, 5730480H06Rik, 5830418P13Rik, 5830432E09Rik, 8430419K02Rik, 9330158H04Rik, 9430037G07Rik, 9530052C20Rik, 9530059O14Rik, 9630001P10Rik, A230107N01Rik, A330023F24Rik, A430010J10Rik, A430108G06Rik, A930024N18Rik, AI504432, Atxn7l1os2, C130021I20Rik, C130071C03Rik, C230088H06Rik, C330013F16Rik, Ccdc41os1, Chd3os, D930015M05Rik, Dleu2, Dlx1as, Gm12116, Gm13111, Gm14379, Gm14705, Gm15050, Gm16023, Gm16575, Gm16754, Gm16933, Gm16998, Gm17275, Gm17337, Gm17388, Gm17473, Gm17586, Gm4117, Gm4211, Gm5602, Gm6410, Gm6999, Hotair, Malat1, Neat1, Pcsk2os1, Peg13, Redrum, Snhg1, Snhg5, Snhg7, Tug1, Xist.

Innate & Adaptive Immunity: 1500012K07Rik, 1700020I14Rik, 1810058I24Rik, 2210406O10Rik, 2310001H17Rik, 2900041M22Rik, 4921504A21Rik, 4930470G03Rik, 4930558J18Rik, 4932412D23Rik, 4933407K13Rik, 4933427G23Rik, 5730480H06Rik, 5830418P13Rik, 8430419K02Rik, 9330158H04Rik, 9530059O14Rik, 9630001P10Rik, A330023F24Rik, A430108G06Rik, A930024N18Rik, AI504432, Atxn7l1os2, C130021I20Rik, C130071C03Rik, C230088H06Rik, C330013F16Rik, Ccdc41os1, Chd3os, D930015M05Rik, Dlx1as, Firre, Gm12116, Gm13111, Gm14379, Gm14705, Gm16023, Gm16575, Gm16933, Gm17275, Gm17337, Gm17354, Gm17586, Gm4117, Gm6410, Hotair, Malat1, Neat1, Pcsk2os1, Peg13, Snhg7, Tug1, Xist, Zfa-ps.

Other Inflammatory Response & Autoimmunity lncRNAs: Gas5, Gm15832, Jpx, Ptgs2os2.

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.

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