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

Inflammatory Response & Autoimmunity

Cat. no. 330721 LAHS-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 Human 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 ΔΔCT 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	A2ML1-AS1	ABCA11P	AC000120.7	AC007228.9	AC016629.8	AC068196.1	AC104820.2	CEP83-AS1	CROCCP2	CTC-444N24.11	CTC-487M23.5	CTD-3185P2.1
B	DLEU2	EPB41L4A-AS1	ERICH1-AS1	FAM211A-AS1	FGD5-AS1	FGF14-IT1	FLJ31306	FOXN3-AS2	GAS5	GAS5-AS1	GRM5-AS1	HCG11
C	HCG18	HNRNPU-AS1	HOTAIR	HTR4-IT1	IQCF5-AS1	JPX	LINC00094	LINC00116	LINC00293	LINC00324	LINC00338	LINC00421
D	LINC00635	LINC00657	LINC00662	LINC00667	LL22NC03-N27C7.1	LOC653160	LRRC37BP1	MALAT1	MCM3AP-AS1	MEG3	NAV2-AS5	NCBP2-AS2
E	NEAT1	NUTM2A-AS1	OIP5-AS1	PDXDC2P	RMST	RP11-1134I14.8	RP11-282O18.3	RP11-29G8.3	RP11-325K4.3	RP11-363E7.4	RP11-363G2.4	RP11-367N14.3
F	RP11-38P22.2	RP11-399K21.11	RP11-473I1.10	RP11-473M20.16	RP11-498C9.15	RP11-549J18.1	RP11-819C21.1	RP11-84C13.1	RP11-96D1.10	RP1-239B22.5	RP6-24A23.7	SDCBP2-AS1
G	SENP3-EIF4A1	SIK3-IT1	SLC7A11-AS1	SNHG11	SNHG16	SNHG5	SNHG7	TP73-AS1	TUG1	XIST	ZFAS1	ZNRD1-AS1
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	ENST00000537288	A2ML1-AS1	A2ML1 antisense RNA 1 [Source:HGNC Symbol;Acc:41022]
A02	Hs.745030	NR_002451	ABCA11P	ATP-binding cassette, sub-family A (ABC1), member 11, pseudogene
A03	N/A	ENST00000414227	AC000120.7	AC000120.7
A04	N/A	ENST00000602145	AC007228.9	AC007228.9
A05	N/A	ENST00000593642	AC016629.8	Uncharacterized LOC100131691
A06	N/A	ENST00000456895	AC068196.1	AC068196.1
A07	N/A	ENST00000414750	AC104820.2	Uncharacterized LOC101927156
A08	N/A	NR_027035	CEP83-AS1	CEP83 antisense RNA 1 (head to head)
A09	Hs.733729	NR_026752	CROCCP2	Ciliary rootlet coiled-coil, rootletin pseudogene 2
A10	N/A	ENST00000593427	CTC-444N24.11	CTC-444N24.11
A11	N/A	ENST00000602872	CTC-487M23.5	CTC-487M23.5
A12	N/A	ENST00000565387	CTD-3185P2.1	CTD-3185P2.1
B01	Hs.547964	NR_002612	DLEU2	Deleted in lymphocytic leukemia 2 (non-protein coding)
B02	Hs.12082	NR_015370	EPB41L4A-AS1	Non-protein coding RNA 219
B03	Hs.722154	NR_073397	ERICH1-AS1	ERICH1 antisense RNA 1
B04	Hs.368934	NR_027158	FAM211A-AS1	Non-protein coding RNA 188
B05	N/A	ENST00000417835	FGD5-AS1	FGD5 antisense RNA 1
B06	Hs.662212	NR_036486	FGF14-IT1	Hypothetical LOC283480
B07	Hs.531089	NR_029434	FLJ31306	Hypothetical LOC379025
B08	Hs.673124	NR_024620	FOXN3-AS2	PRO1768
B09	Hs.736055	NR_002578	GAS5	Growth arrest-specific 5 (non-protein coding)
B10	N/A	ENST00000602767	GAS5-AS1	GAS5 antisense RNA 1
B11	N/A	ENST00000526448	GRM5-AS1	GRM5 antisense RNA 1
		ENST00000411		

Position	UniGene	GenBank	Symbol	Description
B12	N/A	553	HCG11	HLA complex group 11 (non-protein coding)
C01	N/A	ENST00000412685	HCG18	HLA complex group 18 (non-protein coding)
C02	N/A	ENST00000366527	HNRNPU-AS1	HNRNPU antisense RNA 1
C03	Hs.197076	NR_003716	HOTAIR	Hox transcript antisense RNA (non-protein coding)
C04	N/A	ENST00000517511	HTR4-IT1	HTR4 intronic transcript 1 (non-protein coding) [Source:HGNC Symbol;Acc:41345]
C05	N/A	ENST00000440723	IQCF5-AS1	IQCF5 antisense RNA 1
C06	N/A	ENST00000414209	JPX	JPX transcript, XIST activator (non-protein coding)
C07	N/A	ENST00000430633	LINC00094	Long intergenic non-protein coding RNA 94
C08	Hs.128499	NR_027063	LINC00116	Non-protein coding RNA 116
C09	N/A	ENST00000518278	LINC00293	Long intergenic non-protein coding RNA 293
C10	Hs.121692	NR_026951	LINC00324	Non-protein coding RNA 324
C11	N/A	ENST00000366365	LINC00338	Long intergenic non-protein coding RNA 338
C12	Hs.375063	NR_034026	LINC00421	HCG2019585-like
D01	Hs.159043	NR_015414	LINC00635	Hypothetical LOC151658
D02	N/A	ENST00000565493	LINC00657	Long intergenic non-protein coding RNA 657
D03	N/A	ENST00000561521	LINC00662	Long intergenic non-protein coding RNA 662
D04	Hs.727464	NR_015389	LINC00667	Hypothetical LOC339290
D05	N/A	ENST00000602816	LL22NC03-N27C7.1	LL22NC03-N27C7.1
D06	N/A	ENST00000311990	LOC653160	Uncharacterized LOC653160
D07	Hs.568209	NR_015341	LRRC37BP1	Leucine rich repeat containing 37B pseudogene 1
D08	Hs.642877	NR_002819	MALAT1	Metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
D09	Hs.731747	NR_002776	MCM3AP-AS1	MCM3AP antisense RNA 1 (non-protein coding)
D10	Hs.654863	NR_002766	MEG3	Maternally expressed 3 (non-protein coding)
D11	Hs.434602	NR_049725	NAV2-AS5	NAV2 antisense RNA 5
D12	Hs.118820	NR_024388	NCBP2-AS2	Hypothetical LOC152217
E01	N/A	NR_028272	NEAT1	Nuclear paraspeckle assembly transcript 1 (non-protein coding)
E02	N/A	ENST00000366446	NUTM2A-AS1	NUTM2A antisense RNA 1
E03	N/A	ENST00000500949	OIP5-AS1	OIP5 antisense RNA 1
E04	Hs.513695	NR_003610	PDXDC2P	Pyridoxal-dependent decarboxylase domain containing 2, pseudogene
E05	N/A	NR_024037	RMST	Rhabdomyosarcoma 2 associated transcript (non-protein coding)
E06	N/A	ENST00000528139	RP11-1134I14.8	Patched 1 pseudogene
E07	N/A	ENST00000541002	RP11-282O18.3	RP11-282O18.3
E08	N/A	ENST00000563635	RP11-29G8.3	RP11-29G8.3
E09	N/A	ENST00000565861	RP11-325K4.3	RP11-325K4.3
E10	N/A	ENST00000563205	RP11-363E7.4	RP11-363E7.4
E11	N/A	ENST00000445646	RP11-363G2.4	RP11-363G2.4
E12	N/A	ENST00000608204	RP11-367N14.3	RP11-367N14.3
F01	N/A	ENST00000460407	RP11-38P22.2	RP11-38P22.2
F02	N/A	ENST00000418818	RP11-399K21.11	Uncharacterized LOC101929189
F03	N/A	ENST00000574616	RP11-473I1.10	RP11-473I1.10
F04	N/A	ENST00000570843	RP11-473M20.16	RP11-473M20.16
F05	N/A	ENST00000582866	RP11-498C9.15	RP11-498C9.15
F06	N/A	ENST00000505668	RP11-549J18.1	RP11-549J18.1

Position	UniGene	GenBank	Symbol	Description
F07	N/A	ENST00000561746	RP11-819C21.1	RP11-819C21.1
F08	N/A	ENST00000603357	RP11-84C13.1	RP11-84C13.1
F09	N/A	ENST00000571975	RP11-96D1.10	RP11-96D1.10
F10	N/A	ENST00000568280	RP1-239B22.5	RP1-239B22.5
F11	N/A	ENST00000564206	RP6-24A23.7	RP6-24A23.7
F12	N/A	ENST00000446423	SDCBP2-AS1	SDCBP2 antisense RNA 1
G01	N/A	ENST00000579777	SENP3-EIF4A1	SENP3-EIF4A1 readthrough (NMD candidate)
G02	N/A	ENST00000454832	SIK3-IT1	SIK3 intronic transcript 1 (non-protein coding) [Source:HGNC Symbol;Acc:41495]
G03	N/A	ENST00000510066	SLC7A11-AS1	SLC7A11 antisense RNA 1
G04	Hs.16936	NR_003239	SNHG11	Small nucleolar RNA host gene 11 (non-protein coding)
G05	N/A	NR_038108	SNHG16	Small nucleolar RNA host gene 16 (non-protein coding)
G06	Hs.292457	NR_003038	SNHG5	Small nucleolar RNA host gene 5 (non-protein coding)
G07	Hs.741305	NR_003672	SNHG7	Small nucleolar RNA host gene 7 (non-protein coding)
G08	Hs.49658	NR_033708	TP73-AS1	TP73 antisense RNA 1 (non-protein coding)
G09	Hs.554829	NR_002323	TUG1	Taurine upregulated 1 (non-protein coding)
G10	Hs.529901	NR_001564	XIST	X (inactive)-specific transcript (non-protein coding)
G11	Hs.356766	NR_003604	ZFAS1	ZNFX1 antisense RNA 1
G12	Hs.653168	NR_026751	ZNRD1-AS1	ZNRD1 antisense RNA 1 (non-protein coding)
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 Grouping:

Acute-Phase Response: A2ML1-AS1, AATK-AS1, ABCA11P, AC000120.7, AC007228.9, AC016629.8, AC104820.2, ALMS1-IT1, CROCCP2, CSNK1A1P1, CTC-444N24.11, CTC-487M23.5, CTD-3185P2.1, DLEU2, EPB41L4A-AS1, ERICH1-AS1, FAM155A-IT1, FAM66C, FGD5-AS1, FGF14-IT1, FOXN3-AS2, GAS5, GAS5-AS1, GPC6-AS1, GRM5-AS1, HCG11, HCG18, HNRNPU-AS1, HOTAIR, HTR4-IT1, IQCF5-AS1, IQCH-AS1, JAZF1-AS1, LINC00094, LINC00116, LINC00293, LINC00338, LINC00421, LINC00472, LINC00500, LINC00635, LINC00657, LINC00662, LINC00667, LL22NC03-N27C7.1, LOC653160, LRRC37BP1, MALAT1, MCM3AP-AS1, MEG3, MINOS1P1, MYB-AS1, NAV2-AS5, NCBP2-AS2, NEAT1, NUTM2A-AS1, OIP5-AS1, RNU12, RP11-1134I14.8, RP11-282O18.3, RP11-29G8.3, RP11-363E7.4, RP11-363G2.4, RP11-38P22.2, RP11-399K21.11, RP11-473I1.10, RP11-473M20.16, RP11-498C9.15, RP11-819C21.1, RP11-84C13.1, RP11-96D1.10, RP1-239B22.5, RP6-24A23.7, SDCBP2-AS1, SENP3-EIF4A1, SIK3-IT1, SLC7A11-AS1, SLC9B1P3, SNHG16, SNHG7, TTC28-AS1, TUG1, XIST, ZFAS1, ZNRD1-AS1.

Autoimmunity: A2ML1-AS1, AATK-AS1, ABCA11P, AC000120.7, AC016629.8, AC104820.2, ALMS1-IT1, CROCCP2, CTC-444N24.11, EPB41L4A-AS1, ERICH1-AS1, FAM155A-IT1, FAM66C, FGD5-AS1, FGF14-IT1, FOXN3-AS2, GAS5, GAS5-AS1, GPC6-AS1, GRM5-AS1, HCG18, HNRNPU-AS1, HOTAIR, HTR4-IT1, IQCF5-AS1, IQCH-AS1, JAZF1-AS1, LINC00094, LINC00116, LINC00293, LINC00324, LINC00338, LINC00421, LINC00472, LINC00500, LINC00635, LINC00657, LINC00662, LINC00667, LL22NC03-N27C7.1, LOC653160, LRRC37BP1, MALAT1, MCM3AP-AS1, MINOS1P1, MYB-AS1, NCBP2-AS2, NEAT1, NUTM2A-AS1, OIP5-AS1, PDXDC2P, RNU12, RP11-1134I14.8, RP11-282O18.3, RP11-29G8.3, RP11-325K4.3, RP11-363E7.4, RP11-363G2.4, RP11-38P22.2, RP11-399K21.11, RP11-473I1.10, RP11-473M20.16, RP11-498C9.15, RP11-549J18.1, RP11-819C21.1, RP11-84C13.1, RP11-96D1.10, RP1-239B22.5, RP6-24A23.7, SENP3-EIF4A1, SIK3-IT1, SLC7A11-AS1, SLC9B1P3, SNHG16, SNHG7, TP73-AS1, TSPAN9-IT1, TTC28-AS1, TUG1, XIST, ZNRD1-AS1.

Humoral Immune Response: A2M-AS1, A2ML1-AS1, AATK-AS1, ABCA11P, AC000120.7, AC007228.9, AC016629.8, AC104820.2, ALMS1-IT1, CROCCP2, CSNK1A1P1, CTC-444N24.11, CTD-3185P2.1, DLEU2, EPB41L4A-AS1, ERICH1-AS1, FAM155A-IT1, FAM66C, FGD5-AS1, FGF14-IT1, FLJ31306, FOXN3-AS2, GAS5, GAS5-AS1, GPC6-AS1, GRM5-AS1, HCG11, HCG18, HNRNPU-AS1, HOTAIR, HTR4-IT1, IQCF5-AS1, IQCH-AS1, JAZF1-AS1, JPX, LINC00094, LINC00116, LINC00293, LINC00324, LINC00338, LINC00421, LINC00472, LINC00500, LINC00635, LINC00657, LINC00662, LINC00667, LL22NC03-N27C7.1, LOC653160, LRRC37BP1, MALAT1, MCM3AP-AS1, MINOS1P1, NAV2-AS5, NEAT1, NUTM2A-AS1, OIP5-AS1, PDXDC2P, RNU12, RP11-1134I14.8, RP11-282O18.3, RP11-29G8.3, RP11-325K4.3, RP11-363E7.4, RP11-363G2.4, RP11-367N14.3, RP11-38P22.2, RP11-399K21.11, RP11-473I1.10, RP11-473M20.16, RP11-498C9.15, RP11-549J18.1, RP11-819C21.1, RP11-84C13.1, RP11-96D1.10, RP1-239B22.5, RP6-24A23.7, SDCBP2-AS1, SEC62-AS1, SENP3-EIF4A1, SIK3-IT1, SLC7A11-AS1, SLC9B1P3, SNHG16, SNHG7, TP73-AS1, TSPAN9-IT1, TTC28-AS1, TUG1, XIST, ZNRD1-AS1.

Inflammatory Responses: A2ML1-AS1, AATK-AS1, ABCA11P, AC0001207, AC0166298, ALMS1-IT1, CROCCP2, CTC-444N2411, DLEU2, EPB41L4A-AS1, FAM155A-IT1, FAM66C, FGD5-AS1, FGF14-IT1, FOXN3-AS2, GAS5, GAS5-AS1, GPC6-AS1, GRM5-AS1, HCG18, HNRNPU-AS1, HOTAIR, HTR4-IT1, IQCF5-AS1, IQCH-AS1, JAZF1-AS1, LINC00094, LINC00116, LINC00293, LINC00338, LINC00421, LINC00472, LINC00500, LINC00635, LINC00657, LINC00662, LINC00667, LL22NC03-N27C71, LRRC37BP1, MALAT1, MCM3AP-AS1, MINOS1P1, NAV2-AS5, NEAT1, NUTM2A-AS1, OIP5-AS1, PDXDC2P, RNU12, RP11-1134I148, RP11-282O183, RP11-29G83, RP11-363E74, RP11-363G24, RP11-38P222, RP11-399K2111, RP11-473I110, RP11-473M2016, RP11-498C915, RP11-549J181, RP11-819C211, RP11-84C131, RP11-96D110, RP6-24A237, SDCBP2-AS1, SENP3-EIF4A1, SIK3-IT1, SLC7A11-AS1, SLC9B1P3, SNHG16, SNHG7, TTC28-AS1, TUG1, XIST, ZNRD1-AS1.

Innate & Adaptive Immunity: A2ML1-AS1, AATK-AS1, ABCA11P, AC000120.7, ALMS1-IT1, CROCCP2, CTC-444N24.11, EPB41L4A-AS1, FGD5-AS1, FOXN3-AS2, GAS5-AS1, GRM5-AS1, HCG18, HNRNPU-AS1, HOTAIR, HTR4-IT1, IQCF5-AS1, JAZF1-AS1, LINC00094, LINC00116, LINC00293, LINC00338, LINC00500, LINC00635, LINC00657, LINC00667, LRRC37BP1, MALAT1, MCM3AP-AS1, MINOS1P1, NCBP2-AS2, NEAT1, NUTM2A-AS1, RP11-1134I14.8, RP11-29G8.3, RP11-363E7.4, RP11-363G2.4, RP11-399K21.11, RP11-473I1.10, RP11-473M20.16, RP11-498C9.15, RP11-819C21.1, RP11-84C13.1, RP11-96D1.10, RP6-24A23.7, SENP3-EIF4A1, SIK3-IT1, SLC7A11-AS1, SNHG16, SNHG7, TUG1, XIST, ZNRD1-AS1.

Other Inflammatory Response & Autoimmunity lncRNAs: AC068196.1, CEP83-AS1, FAM211A-AS1, RMST, SNHG11, SNHG5.

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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