

QuantiNova® LNA® Probe PCR IncRNA Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Mouse Cell Differentiation & Development

Cat. no. 249956 ULMM-003ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR IncRNA Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light at 2–8°C for short term storage or at –30°C to –15°C for long time storage. Under these conditions, all components are stable for at least 12 months.

Note: Open the package and store the products appropriately immediately upon receipt.

For optimal performance, QuantiNova LNA Probe PCR IncRNA Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA Probe PCR Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Wt1os	Xist	H19	Hota1r	Malat1	Mirg	Dancr	Meg3	Tsix	Gas5	Neat1	Snhg7os
B	Pvt1	Snhg14	Igf2os	Sox2ot	Has2os	Dio3os	Gm20219	Tug1	Gm12610	Kcnq1ot1	Cnrde	Firre
C	Hota1rm1	Hottip	Hoxaas2	Pldi	Dlx1os	Emx2os	Ndc1	Abhd11os	Bvht	Zfas1	Ftx	Miat
D	Snhg1	Trp53cor1	1700020114Rik	Aim	Dlx6os1	Dnm3os	Fendrr	Gm30731	Hoxa11os	Jpx	Gm14005	Nlx2-2os
E	Rmst	Snhg6	Snhg8	3110039108Rik	Dubr	Foxd2os	Hoxaas3	Ifngas1	Mir99ahg	Nron	Rian	Six3os1
F	Snhg20	Snhg5	Terc	Tunar	Vax2os	Zeb2os	Amd-ps1	Anp32b-ps1	Evx1os	Gm15222	Kcnd3os	Lhx1os
G	Mir124a-1hg	Mir9-3hg	Myhas	Pancf2	Plekhd1os	1700007L15Rik	C130071C03	G730013B05	0610012G03	1700052K11R	1700086O06	2610307P16R
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR IncRNA Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM062572 6	ENSMUST00000 135153.7	Wt1os	ENSMUSG00 000074987	Wilms tumor 1 homolog, opposite strand Source MGI Symbol Acc MGI 2138884
A02	UPFM067823 3	ENSMUST00000 127786.3	Xist	ENSMUSG00 000086503	inactive X specific transcripts Source MGI Symbol Acc MGI 98974
A03	UPFM064158 2	ENSMUST00000 228514.1	H19	ENSMUSG00 000000031	H19, imprinted maternally expressed transcript Source MGI Symbol Acc MGI 95891
A04	UPFM087225 8	ENSMUST00000 151949.4	Hotair	ENSMUSG00 000086903	HOX transcript antisense RNA (non-protein coding) Source MGI Symbol Acc MGI 3826586
A05	UPFM077524 3	ENSMUST00000 173314.1	Malat1	ENSMUSG00 000092341	metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) Source MGI Symbol Acc MGI 1919539
A06	UPFM095401 4	ENSMUST00000 183144.7	Mirg	ENSMUSG00 000097391	miRNA containing gene Source MGI Symbol Acc MGI 3781106
A07	UPFM076498 0	ENSMUST00000 132389.2	Dancr	ENSMUSG00 000106943	differentiation antagonizing non-protein coding RNA Source MGI Symbol Acc MGI 1917286
A08	UPFM080290 3	ENSMUST00000 126289.7	Meg3	ENSMUSG00 000021268	maternally expressed 3 Source MGI Symbol Acc MGI 1202886
A09	UPFM097304 0	ENSMUST00000 152916.1	Tsix	ENSMUSG00 000085715	X (inactive)-specific transcript, opposite strand Source MGI Symbol Acc MGI 1336196
A10	UPFM071740 2	ENSMUST00000 162289.7	Gas5	ENSMUSG00 000053332	growth arrest specific 5 Source MGI Symbol Acc MGI 95659
A11	UPFM101082 5	ENSMUST00000 232969.1	Neat1	ENSMUSG00 000092274	nuclear paraspeckle assembly transcript 1 (non-protein coding) Source MGI Symbol Acc MGI 1914211
A12	UPFM069858 3	ENSMUST00000 147986.1	Snhg7os	ENSMUSG00 000086775	small nucleolar RNA host gene 7, opposite strand Source MGI Symbol Acc MGI 3045374
B01	UPFM095995 2	ENSMUST00000 182956.7	Pvt1	ENSMUSG00 000097039	Pvt1 oncogene Source MGI Symbol Acc MGI 97824
B02	UPFM096016 5	ENSMUST00000 185693.6	Snhg14	ENSMUSG00 000100826	small nucleolar RNA host gene 14 Source MGI Symbol Acc MGI 1289201
B03	UPFM093520 3	ENSMUST00000 141681.1	Igf2os	ENSMUSG00 000086266	insulin-like growth factor 2, opposite strand Source MGI Symbol Acc MGI 1195257
B04	UPFM095314 3	ENSMUST00000 199171.4	Sox2ot	ENSMUSG00 000105265	SOX2 overlapping transcript (non-protein coding) Source MGI Symbol Acc MGI 2444112
B05	UPFM082810 6	ENSMUST00000 165880.1	Has2os	ENSMUSG00 000086541	hyaluronan synthase 2, opposite strand Source MGI Symbol Acc MGI 3643465
B06	UPFM087676 6	ENSMUST00000 220793.1	Dio3os	ENSMUSG00 000113581	deiodinase, iodothyronine type III, opposite strand Source MGI Symbol Acc MGI 2664395
B07	UPFM089134 2	ENSMUST00000 209718.1	Gm20219	ENSMUSG00 000110218	predicted gene, 20219 Source MGI Symbol Acc MGI 5012404
B08	UPFM074695 5	ENSMUST00000 153313.8	Tug1	ENSMUSG00 000056579	taurine upregulated gene 1 Source MGI Symbol Acc MGI 2144114
B09	UPFM072531 0	ENSMUST00000 139272.1	Gm12610	ENSMUSG00 000086035	predicted gene 12610 Source MGI Symbol Acc MGI 3652143
B10	UPFM065979 0	ENSMUST00000 185789.2	Kcnq1ot1	ENSMUSG00 000101609	KCNQ1 overlapping transcript 1 Source MGI Symbol Acc MGI 1926855
B11	UPFM079859 3	ENSMUST00000 034183.9	Crnde	ENSMUSG00 000031736	colorectal neoplasia differentially expressed (non-protein coding) Source MGI Symbol Acc MGI 1918546
B12	UPFM066738 5	ENSMUST00000 124842.7	Firre	ENSMUSG00 000085396	functional intergenic repeating RNA element Source MGI Symbol Acc MGI 2147989
C01	UPFM074249 2	ENSMUST00000 132559.1	Hotairm1	ENSMUSG00 000087658	Hoxa transcript antisense RNA, myeloid-specific 1 Source MGI Symbol Acc MGI 3705155
C02	UPFM071591 4	ENSMUST00000 152875.1	Hottip	ENSMUSG00 000055408	Hoxa distal transcript antisense RNA Source MGI Symbol Acc MGI 3642509
C03	UPFM093600 7	ENSMUST00000 114435.1	Hoxaas2	ENSMUSG00 000056445	Hoxa cluster antisense RNA 2 Source MGI Symbol Acc MGI 1913890
C04	UPFM064440 9	ENSMUST00000 036304.3	Pldi	ENSMUSG00 000037247	polymorphic derived intron containing Source MGI Symbol Acc MGI 1920866
C05	UPFM067628 9	ENSMUST00000 137251.2	Dlx1as	ENSMUSG00 000084946	distal-less homeobox 1, antisense Source MGI Symbol Acc MGI 1195983
C06	UPFM088948 2	ENSMUST00000 136990.2	Emx2os	ENSMUSG00 000087095	Emx2 opposite strand/antisense transcript (non-protein coding) Source MGI Symbol Acc MGI 3052329
C07	UPFM079724 0	ENSMUST00000 132167.7	Ntc1	ENSMUSG00 000087090	non-coding transcript 1 Source MGI Symbol Acc MGI 1306816
C08	UPFM072837 1	ENSMUST00000 136022.7	Abhd11os	ENSMUSG00 000085042	abhydrolase domain containing 11, opposite strand Source MGI Symbol Acc MGI 1917062
C09	UPFM094801 0	ENSMUST00000 183087.1	Bvht	ENSMUSG00 000098098	braveheart long non-coding RNA Source MGI Symbol Acc MGI 5434104
C10	UPFM090243 4	ENSMUST00000 189909.6	Zfas1	ENSMUSG00 000074578	zinc finger, NFX1-type containing 1, antisense RNA 1 Source MGI Symbol Acc MGI 1916199
	UPFM071345	ENSMUST00000		ENSMUSG00	Fix transcript, Xist regulator (non-protein coding) Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	5	238083.1	Ftx	000086370	1926128
C12	UPFM090763 2	ENSMUST00000 182258.7	Miat	ENSMUSG00 000097767	myocardial infarction associated transcript (non-protein coding) Source MGI Symbol Acc MGI 2444886
D01	UPFM091485 8	ENSMUST00000 206135.1	Snhg1	ENSMUSG00 000108414	small nucleolar RNA host gene 1 Source MGI Symbol Acc MGI 3763743
D02	UPFM077538 0	ENSMUST00000 133221.2	Trp53cor1	ENSMUSG00 000085912	tumor protein p53 pathway corepressor 1 Source MGI Symbol Acc MGI 3801771
D03	UPFM081049 7	ENSMUST00000 147425.1	170002011 4Rik	ENSMUSG00 000085438	RIKEN cDNA 1700020114 gene Source MGI Symbol Acc MGI 1913852
D04	UPFM068534 7	ENSMUST00000 159731.1	Airn	ENSMUSG00 000078247	antisense Igf2r RNA Source MGI Symbol Acc MGI 1353471
D05	UPFM089697 6	ENSMUST00000 159568.5	Dlx6os1	ENSMUSG00 000090063	distal-less homeobox 6, opposite strand 1 Source MGI Symbol Acc MGI 2443217
D06	UPFM094422 7	ENSMUST00000 231725.1	Dnm3os	ENSMUSG00 000078190	dynammin 3, opposite strand Source MGI Symbol Acc MGI 3052332
D07	UPFM072152 5	ENSMUST00000 181530.7	Fendrr	ENSMUSG00 000097336	Foxf1 adjacent non-coding developmental regulatory RNA Source MGI Symbol Acc MGI 1916040
D08	UPFM087334 5	ENSMUST00000 203909.1	Gm30731	ENSMUSG00 000107859	predicted gene, 30731 Source MGI Symbol Acc MGI 5589890
D09	UPFM065865 7	ENSMUST00000 137729.1	Hoxa11os	ENSMUSG00 000086427	homeobox A11, opposite strand Source MGI Symbol Acc MGI 107208
D10	UPFM065326 6	ENSMUST00000 182486.2	Jpx	ENSMUSG00 000097571	Jpx transcript, Xist activator (non-protein coding) Source MGI Symbol Acc MGI 2180008
D11	UPFM066114 0	ENSMUST00000 143065.7	Gm14005	ENSMUSG00 000074813	predicted gene 14005 Source MGI Symbol Acc MGI 3652191
D12	UPFM068252 5	ENSMUST00000 136998.2	Nkx2-2os	ENSMUSG00 000086509	NK2 homeobox 2, opposite strand Source MGI Symbol Acc MGI 3652259
E01	UPFM075182 0	ENSMUST00000 219444.1	Rmst	ENSMUSG00 000112117	rhabdomyosarcoma 2 associated transcript (non-coding RNA) Source MGI Symbol Acc MGI 1099806
E02	UPFM072816 5	ENSMUST00000 182742.1	Snhg6	ENSMUSG00 000098234	small nucleolar RNA host gene 6 Source MGI Symbol Acc MGI 1921074
E03	UPFM073652 3	ENSMUST00000 196466.1	Snhg8	ENSMUSG00 000104960	small nucleolar RNA host gene 8 Source MGI Symbol Acc MGI 1917145
E04	UPFM077940 2	ENSMUST00000 233934.1	311003910 8Rik	ENSMUSG00 000074415	RIKEN cDNA 3110039108 gene Source MGI Symbol Acc MGI 1920394
E05	UPFM085004 9	ENSMUST00000 191079.1	Dubr	ENSMUSG00 000022639	Dppa2 upstream binding RNA Source MGI Symbol Acc MGI 1915440
E06	UPFM090277 4	ENSMUST00000 123272.1	Foxd2os	ENSMUSG00 000085399	forkhead box D2, opposite strand Source MGI Symbol Acc MGI 2444065
E07	UPFM084591 9	ENSMUST00000 131502.1	Hoxaas3	ENSMUSG00 000085696	Hoxa cluster antisense RNA 3 Source MGI Symbol Acc MGI 1919878
E08	UPFM092363 4	ENSMUST00000 220034.1	Ifngas1	ENSMUSG00 000112230	Ifng antisense RNA 1 Source MGI Symbol Acc MGI 1934663
E09	UPFM077864 1	ENSMUST00000 182748.7	Mir99ahg	ENSMUSG00 000090386	Mir99a and Mirlet7c-1 host gene (non-protein coding) Source MGI Symbol Acc MGI 1919929
E10	UPFM078689 5	ENSMUST00000 140412.1	Nron	ENSMUSG00 000086484	non-protein coding RNA, repressor of NFAT Source MGI Symbol Acc MGI 2444126
E11	UPFM071536 9	ENSMUST00000 182119.1	Rian	ENSMUSG00 000097451	RNA imprinted and accumulated in nucleus Source MGI Symbol Acc MGI 1922995
E12	UPFM076199 9	ENSMUST00000 160691.1	Six3os1	ENSMUSG00 000093460	SIX homeobox 3, opposite strand 1 Source MGI Symbol Acc MGI 1925118
F01	UPFM088246 0	ENSMUST00000 232907.1	Snhg20	ENSMUSG00 000086859	small nucleolar RNA host gene 20 Source MGI Symbol Acc MGI 1924222
F02	UPFM091922 5	ENSMUST00000 183045.1	Snhg5	ENSMUSG00 000097195	small nucleolar RNA host gene 5 Source MGI Symbol Acc MGI 1919905
F03	UPFM062416 8	ENSMUST00000 082862.1	Terc	ENSMUSG00 000064796	telomerase RNA component Source MGI Symbol Acc MGI 109558
F04	UPFM085995 9	ENSMUST00000 180458.8	Tunar	ENSMUSG00 000097929	Tcl1 upstream neural differentiation associated RNA Source MGI Symbol Acc MGI 1917202
F05	UPFM097603 7	ENSMUST00000 123402.1	Vax2os	ENSMUSG00 000085794	ventral anterior homeobox 2, opposite strand Source MGI Symbol Acc MGI 3583301
F06	UPFM091702 8	ENSMUST00000 127150.8	Zeb2os	ENSMUSG00 000052248	zinc finger E-box binding homeobox 2, opposite strand Source MGI Symbol Acc MGI 3652108
F07	UPFM069930 1	ENSMUST00000 120127.1	Amd-ps1	ENSMUSG00 000083823	S-adenosylmethionine decarboxylase, pseudogene 1 Source MGI Symbol Acc MGI 1310005
F08	UPFM092401 0	ENSMUST00000 122215.1	Anp32b-ps 1	ENSMUSG00 000081792	Bacidic (leucine-rich) nuclear phosphoprotein 32 family, member B, pseudogene 1 Source MGI Symbol Acc MGI 3651262
F09	UPFM094160 2	ENSMUST00000 125305.1	Evx1os	ENSMUSG00 000086126	even skipped homeotic gene 1, opposite strand Source MGI Symbol Acc MGI 1917843
F10	UPFM063122 7	ENSMUST00000 127359.1	Gm15222	ENSMUSG00 000086746	predicted gene 15222 Source MGI Symbol Acc MGI 3705297

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM090602 3	ENSMUST00000 143893.1	Kcnd3os	ENSMUSG00 000074346	potassium voltage-gated channel, Shal-related family, member 3, opposite strand Source MGI Symbol Acc MGI 1925885
F12	UPFM067858 6	ENSMUST00000 128121.1	Lhx1os	ENSMUSG00 000087211	LIM homeobox 1, opposite strand Source MGI Symbol Acc MGI 1925615
G01	UPFM092699 3	ENSMUST00000 181808.2	Mir124a-1 hg	ENSMUSG00 000097545	Mir124-1 host gene (non-protein coding) Source MGI Symbol Acc MGI 2442197
G02	UPFM063843 9	ENSMUST00000 183043.7	Mir9-3hg	ENSMUSG00 000097023	Mir9-3 host gene Source MGI Symbol Acc MGI 2142071
G03	UPFM100771 3	ENSMUST00000 145021.1	Myhas	ENSMUSG00 000085348	myosin heavy chain gene antisense RNA Source MGI Symbol Acc MGI 3650429
G04	UPFM093941 3	ENSMUST00000 181489.2	Panc12	ENSMUSG00 000097814	pluripotency-associated noncoding transcript 2 Source MGI Symbol Acc MGI 3643517
G05	UPFM091829 2	ENSMUST00000 153297.1	Plekhd1os	ENSMUSG00 000044062	pleckstrin homology domain containing, family D (with coiled-coil domains) member 1, opposite strand Source MGI Symbol Acc MGI 1915604
G06	UPFM081015 2	ENSMUST00000 180923.1	1700007L1 5Rik	ENSMUSG00 000097318	RIKEN cDNA 1700007L15 gene Source MGI Symbol Acc MGI 1916581
G07	UPFM066321 0	ENSMUST00000 182701.1	C130071C 03Rik	ENSMUSG00 000050334	RIKEN cDNA C130071C03 gene Source MGI Symbol Acc MGI 2443574
G08	UPFM075824 5	ENSMUST00000 180509.8	G730013B 05Rik	ENSMUSG00 000097694	RIKEN cDNA G730013B05 gene Source MGI Symbol Acc MGI 3588276
G09	UPFM083962 6	ENSMUST00000 202722.1	0610012G 03Rik	ENSMUSG00 000107002	RIKEN cDNA 0610012G03 gene Source MGI Symbol Acc MGI 1913301
G10	UPFM078181 0	ENSMUST00000 190120.1	1700052K 11Rik	ENSMUSG00 000099681	RIKEN cDNA 1700052K11 gene Source MGI Symbol Acc MGI 1920681
G11	UPFM095920 2	ENSMUST00000 181871.2	1700086O 06Rik	ENSMUSG00 000097080	RIKEN cDNA 1700086O06 gene Source MGI Symbol Acc MGI 1920766
G12	UPFM086235 9	ENSMUST00000 125358.7	2610307P 16Rik	ENSMUSG00 000085936	RIKEN cDNA 2610307P16 gene Source MGI Symbol Acc MGI 1919768
H01	UPFM113294 6	ENSMUST00000 163829.1	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM112660 9	UPL_MGDC	MGDC	UPL_MGDC	Mouse Genomic DNA Contamination
H07	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H08	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H09	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H10	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H11	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H12	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA Probe PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR IncRNA Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249945
QuantiNova Reverse Transcription Kit (10)*	For 10 x 20 μ l reactions: 20 μ l 8x gDNA Removal Mix, 10 μ l Reverse Transcription Enzyme, 40 μ l Reverse Transcription Mix (containing RT primers), 20 μ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe RT Mix, 20 μ l Internal Control RNA, 500 μ l Yellow Template Dilution Buffer, 250 μ l ROX Reference Dye, 1.9 μ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208252

*Larger kit sizes available.

The QuantiNova LNA Probe PCR IncRNA Focus Panels 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 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.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.