

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

## Mouse Cell Differentiation & Development

Cat. no. 249951 SLMM-003ZA

For study focus gene expression analysis

### Shipping and storage

QuantiNova LNA PCR IncRNA Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored 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 PCR IncRNA Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

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

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

	1	2	3	4	5	6	7	8	9	10	11	12
<b>A</b>	Wt1os	Xist	H19	Hotair	Malat1	Mirg	Dancr	Meg3	Tsix	Gas5	Neat1	Snhg7os
<b>B</b>	Pvt1	Snhg14	Igf2os	Sox2ot	Has2os	Dio3os	Gm20219	Tug1	Gm12610	Kcnq1ot1	Crnde	Firre
<b>C</b>	Hota1m1	Hottip	Hoxaas2	Pldi	Dlx1os	Emx2os	Nctc1	Abhd11os	Bvht	Zfas1	Ftx	Miat
<b>D</b>	Snhg1	Trp53cor1	1700020114Rik	Aim	Dlx6os1	Dnm3os	Fendrr	Gm30731	Hoxa11os	Jpx	Gm14005	Nlx2-2os
<b>E</b>	Rmt	Snhg6	Snhg8	3110039108Rik	Dubr	Foxd2os	Hoxaas3	lfnas1	Mir99ahg	Nron	Rian	Six3os1
<b>F</b>	Snhg20	Snhg5	Terc	Tunar	Vax2os	Zeb2os	Amd-ps1	Anp32b-ps1	Evx1os	Gm15222	Kcnd3os	Lhx1os
<b>G</b>	Mir124a-1hg	Mir9-3hg	Myhas	Panf2	Plekhd1os	1700007L15Rik	C130071C03	G730013805	0610012G03	1700052K11R	1700086O06	2610307P16R
					k	k	Rik	Rik	Rik	ik	Rik	ik
<b>H</b>	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

## Gene table: QuantiNova LNA PCR IncRNA Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0834803	ENSMUST00000172701.7	Wt1os	ENSMUSG0000074987	Wilms tumor 1 homolog, opposite strand Source MGI Symbol Acc MGI 2138884
A02	SBM1047908	ENSMUST00000127786.3	Xist	ENSMUSG0000086503	inactive X specific transcripts Source MGI Symbol Acc MGI 98974
A03	SBM0818653	ENSMUST00000152754.8	H19	ENSMUSG0000000031	H19, imprinted maternally expressed transcript Source MGI Symbol Acc MGI 95891
A04	SBM0797802	ENSMUST00000151949.4	Hotair	ENSMUSG0000086903	HOX transcript antisense RNA (non-protein coding) Source MGI Symbol Acc MGI 3826586
A05	SBM1031723	ENSMUST00000173314.1	Malat1	ENSMUSG0000092341	metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) Source MGI Symbol Acc MGI 1919539
A06	SBM0762025	ENSMUST00000182185.7	Mirg	ENSMUSG0000097391	miRNA containing gene Source MGI Symbol Acc MGI 3781106
A07	SBM0734288	ENSMUST00000117249.1	Dancr	ENSMUSG0000106943	differentiation antagonizing non-protein coding RNA Source MGI Symbol Acc MGI 1917286
A08	SBM0834892	ENSMUST00000143847.7	Meg3	ENSMUSG0000021268	maternally expressed 3 Source MGI Symbol Acc MGI 1202886
A09	SBM0694024	ENSMUST00000152916.1	Tsix	ENSMUSG0000085715	X (inactive)-specific transcript, opposite strand Source MGI Symbol Acc MGI 1336196
A10	SBM0674752	ENSMUST00000161005.7	Gas5	ENSMUSG0000053332	growth arrest specific 5 Source MGI Symbol Acc MGI 95659
A11	SBM0868233	ENSMUST00000174829.1	Neat1	ENSMUSG0000092274	nuclear paraspeckle assembly transcript 1 (non-protein coding) Source MGI Symbol Acc MGI 1914211
A12	SBM0849360	ENSMUST00000131841.7	Snhg7os	ENSMUSG0000086775	small nucleolar RNA host gene 7, opposite strand Source MGI Symbol Acc MGI 3045374
B01	SBM0965777	ENSMUST00000180432.8	Pvt1	ENSMUSG0000097039	Pvt1 oncogene Source MGI Symbol Acc MGI 97824
B02	SBM0977549	ENSMUST00000188976.1	Snhg14	ENSMUSG0000100826	small nucleolar RNA host gene 14 Source MGI Symbol Acc MGI 1289201
B03	SBM0827530	ENSMUST00000141681.1	Igf2os	ENSMUSG0000086266	insulin-like growth factor 2, opposite strand Source MGI Symbol Acc MGI 1195257
B04	SBM0675522	ENSMUST00000200092.1	Sox2ot	ENSMUSG0000105265	SOX2 overlapping transcript (non-protein coding) Source MGI Symbol Acc MGI 2444112
B05	SBM0959942	ENSMUST00000165880.1	Has2os	ENSMUSG0000086541	hyaluronan synthase 2, opposite strand Source MGI Symbol Acc MGI 3643465
B06	SBM0963468	ENSMUST00000220793.1	Dio3os	ENSMUSG0000113581	deiodinase, iodothyronine type III, opposite strand Source MGI Symbol Acc MGI 2664395
B07	SBM1089902	ENSMUST00000209718.1	Gm20219	ENSMUSG0000110218	predicted gene, 20219 Source MGI Symbol Acc MGI 5012404
B08	SBM0742445	ENSMUST00000153313.8	Tug1	ENSMUSG0000056579	taurine upregulated gene 1 Source MGI Symbol Acc MGI 2144114
B09	SBM0976861	ENSMUST00000139272.1	Gm12610	ENSMUSG0000086035	predicted gene 12610 Source MGI Symbol Acc MGI 3652143
B10	SBM1070107	ENSMUST00000185789.2	Kcnq1ot1	ENSMUSG0000101609	KCNQ1 overlapping transcript 1 Source MGI Symbol Acc MGI 1926855
B11	SBM1079975	ENSMUST00000034183.9	Crnde	ENSMUSG0000031736	colorectal neoplasia differentially expressed (non-protein coding) Source MGI Symbol Acc MGI 1918546
B12	SBM0766068	ENSMUST00000124842.7	Firre	ENSMUSG0000085396	functional intergenic repeating RNA element Source MGI Symbol Acc MGI 2147989
C01	SBM0778719	ENSMUST00000159006.1	Hotairm1	ENSMUSG0000087658	Hoxa transcript antisense RNA, myeloid-specific 1 Source MGI Symbol Acc MGI 3705155
C02	SBM0856716	ENSMUST00000152875.1	Hottip	ENSMUSG0000055408	Hoxa distal transcript antisense RNA Source MGI Symbol Acc MGI 3642509
C03	SBM0701018	ENSMUST00000155922.1	Hoxaas2	ENSMUSG0000056445	Hoxa cluster antisense RNA 2 Source MGI Symbol Acc MGI 1913890
C04	SBM0861022	ENSMUST00000036304.3	Pldi	ENSMUSG0000037247	polymorphic derived intron containing Source MGI Symbol Acc MGI 1920866
C05	SBM1034129	ENSMUST00000140271.1	Dlx1as	ENSMUSG0000084946	distal-less homeobox 1, antisense Source MGI Symbol Acc MGI 1195983
C06	SBM0777798	ENSMUST00000136990.2	Emx2os	ENSMUSG0000087095	Emx2 opposite strand/antisense transcript (non-protein coding) Source MGI Symbol Acc MGI 3052329
C07	SBM1076797	ENSMUST00000132167.7	Nctc1	ENSMUSG0000087090	non-coding transcript 1 Source MGI Symbol Acc MGI 1306816
C08	SBM1072397	ENSMUST00000136022.7	Abhd11os	ENSMUSG0000085042	abhydrolase domain containing 11, opposite strand Source MGI Symbol Acc MGI 1917062
C09	SBM0918500	ENSMUST00000183083.7	Bvht	ENSMUSG0000098098	braveheart long non-coding RNA Source MGI Symbol Acc MGI 5434104
C10	SBM0677076	ENSMUST00000136378.1	Zfas1	ENSMUSG0000074578	zinc finger, NFX1-type containing 1, antisense RNA 1 Source MGI Symbol Acc MGI 1916199
		ENSMUST00000		ENSMUSG00	Fix transcript, Xist regulator (non-protein coding) Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0966445	237368.1	Fx	000086370	1926128
C12	SBM0746127	ENSMUST00000182509.7	Miat	ENSMUSG0000097767	myocardial infarction associated transcript (non-protein coding) Source MGI Symbol Acc MGI 2444886
D01	SBM1081202	ENSMUST00000206155.1	Snhg1	ENSMUSG0000108414	small nucleolar RNA host gene 1 Source MGI Symbol Acc MGI 3763743
D02	SBM0871527	ENSMUST00000133221.2	Trp53cor1	ENSMUSG0000085912	tumor protein p53 pathway corepressor 1 Source MGI Symbol Acc MGI 3801771
D03	SBM0966676	ENSMUST00000147425.1	1700020114Rik	ENSMUSG0000085438	RIKEN cDNA 1700020114 gene Source MGI Symbol Acc MGI 1913852
D04	SBM0922825	ENSMUST00000159731.1	Airn	ENSMUSG0000078247	antisense Igf2r RNA Source MGI Symbol Acc MGI 1353471
D05	SBM0674727	ENSMUST00000159827.2	Dlx6os1	ENSMUSG0000090063	distal-less homeobox 6, opposite strand 1 Source MGI Symbol Acc MGI 2443217
D06	SBM1005069	ENSMUST00000231725.1	Dnm3os	ENSMUSG0000078190	dynamamin 3, opposite strand Source MGI Symbol Acc MGI 3052332
D07	SBM0820502	ENSMUST00000182264.1	Fendrr	ENSMUSG0000097336	Foxf1 adjacent non-coding developmental regulatory RNA Source MGI Symbol Acc MGI 1916040
D08	SBM0762831	ENSMUST00000203909.1	Gm30731	ENSMUSG0000107859	predicted gene, 30731 Source MGI Symbol Acc MGI 5589890
D09	SBM0760766	ENSMUST00000156515.8	Hoxa11os	ENSMUSG0000086427	homeobox A11, opposite strand Source MGI Symbol Acc MGI 107208
D10	SBM0712055	ENSMUST00000181020.8	Jpx	ENSMUSG0000097571	Jpx transcript, Xist activator (non-protein coding) Source MGI Symbol Acc MGI 2180008
D11	SBM0676665	ENSMUST00000151427.1	Gm14005	ENSMUSG0000074813	predicted gene 14005 Source MGI Symbol Acc MGI 3652191
D12	SBM1058044	ENSMUST00000136998.2	Nkx2-2os	ENSMUSG0000086509	NK2 homeobox 2, opposite strand Source MGI Symbol Acc MGI 3652259
E01	SBM1023163	ENSMUST00000220288.1	Rmst	ENSMUSG0000112117	rhabdomyosarcoma 2 associated transcript (non-coding RNA) Source MGI Symbol Acc MGI 1099806
E02	SBM0870308	ENSMUST00000182580.7	Snhg6	ENSMUSG0000098234	small nucleolar RNA host gene 6 Source MGI Symbol Acc MGI 1921074
E03	SBM0970895	ENSMUST00000196466.1	Snhg8	ENSMUSG0000104960	small nucleolar RNA host gene 8 Source MGI Symbol Acc MGI 1917145
E04	SBM0820061	ENSMUST00000233562.1	3110039108Rik	ENSMUSG0000074415	RIKEN cDNA 3110039108 gene Source MGI Symbol Acc MGI 1920394
E05	SBM0757781	ENSMUST00000186535.1	Dubr	ENSMUSG0000022639	Dppa2 upstream binding RNA Source MGI Symbol Acc MGI 1915440
E06	SBM0703192	ENSMUST00000123272.1	Foxd2os	ENSMUSG0000085399	forkhead box D2, opposite strand Source MGI Symbol Acc MGI 2444065
E07	SBM1051135	ENSMUST00000136806.7	Hoxaas3	ENSMUSG0000085696	Hoxa cluster antisense RNA 3 Source MGI Symbol Acc MGI 1919878
E08	SBM1059860	ENSMUST00000220034.1	lfngas1	ENSMUSG0000112230	lfng antisense RNA 1 Source MGI Symbol Acc MGI 1934663
E09	SBM0772292	ENSMUST00000182601.7	Mir99ahg	ENSMUSG0000090386	Mir99a and Mirlet7c-1 host gene (non-protein coding) Source MGI Symbol Acc MGI 1919929
E10	SBM0702429	ENSMUST00000140412.1	Nron	ENSMUSG0000086484	non-protein coding RNA, repressor of NFAT Source MGI Symbol Acc MGI 2444126
E11	SBM0745954	ENSMUST00000182689.7	Rian	ENSMUSG0000097451	RNA imprinted and accumulated in nucleus Source MGI Symbol Acc MGI 1922995
E12	SBM0863830	ENSMUST00000176917.7	Six3os1	ENSMUSG0000093460	SIX homeobox 3, opposite strand 1 Source MGI Symbol Acc MGI 1925118
F01	SBM0825665	ENSMUST00000232695.1	Snhg20	ENSMUSG0000086859	small nucleolar RNA host gene 20 Source MGI Symbol Acc MGI 1924222
F02	SBM0693359	ENSMUST00000183045.1	Snhg5	ENSMUSG0000097195	small nucleolar RNA host gene 5 Source MGI Symbol Acc MGI 1919905
F03	SBM0745223	ENSMUST00000082862.1	Terc	ENSMUSG0000064796	telomerase RNA component Source MGI Symbol Acc MGI 109558
F04	SBM0882687	ENSMUST00000180458.8	Tunar	ENSMUSG0000097929	Tcl1 upstream neural differentiation associated RNA Source MGI Symbol Acc MGI 1917202
F05	SBM0903640	ENSMUST00000123402.1	Vax2os	ENSMUSG0000085794	ventral anterior homeobox 2, opposite strand Source MGI Symbol Acc MGI 3583301
F06	SBM0859710	ENSMUST00000127150.8	Zeb2os	ENSMUSG0000052248	zinc finger E-box binding homeobox 2, opposite strand Source MGI Symbol Acc MGI 3652108
F07	SBM0984192	ENSMUST00000120127.1	Amd-ps1	ENSMUSG0000083823	S-adenosylmethionine decarboxylase, pseudogene 1 Source MGI Symbol Acc MGI 1310005
F08	SBM0843312	ENSMUST00000122215.1	Anp32b-ps1	ENSMUSG0000081792	Bacdic (leucine-rich) nuclear phosphoprotein 32 family, member B, pseudogene 1 Source MGI Symbol Acc MGI 3651262
F09	SBM1004852	ENSMUST00000125305.1	Evx1os	ENSMUSG0000086126	even skipped homeotic gene 1, opposite strand Source MGI Symbol Acc MGI 1917843
F10	SBM0691975	ENSMUST00000127359.1	Gm15222	ENSMUSG0000086746	predicted gene 15222 Source MGI Symbol Acc MGI 3705297

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1010985	ENSMUST00000143893.1	Kcnd3os	ENSMUSG0000074346	potassium voltage-gated channel, Shal-related family, member 3, opposite strand Source MGI Symbol Acc MGI 1925885
F12	SBM1036686	ENSMUST00000128121.1	Lhx1os	ENSMUSG0000087211	LIM homeobox 1, opposite strand Source MGI Symbol Acc MGI 1925615
G01	SBM1004249	ENSMUST00000181808.2	Mir124a-1hg	ENSMUSG0000097545	Mir124-1 host gene (non-protein coding) Source MGI Symbol Acc MGI 2442197
G02	SBM0918801	ENSMUST00000183043.7	Mir9-3hg	ENSMUSG0000097023	Mir9-3 host gene Source MGI Symbol Acc MGI 2142071
G03	SBM0775141	ENSMUST00000145021.1	Myhas	ENSMUSG0000085348	myosin heavy chain gene antisense RNA Source MGI Symbol Acc MGI 3650429
G04	SBM0794615	ENSMUST00000202118.1	Panct2	ENSMUSG0000097814	pluripotency-associated noncoding transcript 2 Source MGI Symbol Acc MGI 3643517
G05	SBM0962411	ENSMUST00000153297.1	Plekhd1os	ENSMUSG0000044062	pleckstrin homology domain containing, family D (with coiled-coil domains) member 1, opposite strand Source MGI Symbol Acc MGI 1915604
G06	SBM0828862	ENSMUST00000231849.1	1700007L15Rik	ENSMUSG0000097318	RIKEN cDNA 1700007L15 gene Source MGI Symbol Acc MGI 1916581
G07	SBM0683430	ENSMUST00000131907.8	C130071C03Rik	ENSMUSG0000050334	RIKEN cDNA C130071C03 gene Source MGI Symbol Acc MGI 2443574
G08	SBM0743062	ENSMUST00000181884.1	G730013B05Rik	ENSMUSG0000097694	RIKEN cDNA G730013B05 gene Source MGI Symbol Acc MGI 3588276
G09	SBM0947143	ENSMUST00000202722.1	0610012G03Rik	ENSMUSG0000107002	RIKEN cDNA 0610012G03 gene Source MGI Symbol Acc MGI 1913301
G10	SBM1041760	ENSMUST00000190120.1	1700052K11Rik	ENSMUSG0000099681	RIKEN cDNA 1700052K11 gene Source MGI Symbol Acc MGI 1920681
G11	SBM1081589	ENSMUST00000181871.2	1700086O06Rik	ENSMUSG0000097080	RIKEN cDNA 1700086O06 gene Source MGI Symbol Acc MGI 1920766
G12	SBM0795301	ENSMUST00000134624.1	2610307P16Rik	ENSMUSG0000085936	RIKEN cDNA 2610307P16 gene Source MGI Symbol Acc MGI 1919768
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control



## Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR IncRNA Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
QuantiNova Reverse Transcription Kit (10)*	For 10 x 20 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 $\mu$ l QuantiNova SYBR Green RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ l QN ROX Reference Dye, 1.9 ml Water	208052

\*Larger kit sizes available.

The QuantiNova LNA PCR IncRNA Focus Panels are intended for molecular biology applications. These products are not intended for the diagnosis, prevention or treatment of a disease.

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