

QuantiNova® LNA® Probe PCR Focus Panels (Rotor-Gene® Format)

Mouse Stem Cell Transcription Factors

Cat. no. 249955 UPMM-501ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR 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 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 (Rotor-Gene): QuantiNova LNA Probe PCR Focus Panel

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. 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	Cdx2	Diach1	Dlx1	Dlx2	Dnmt3b	Egr3	Esr1	Ezh2	Foxa1	Foxa2	Foxp1	Foxp2
B	Foxp3	Gata1	Gata6	Gli2	Hand1	Hoxa10	Hoxa11	Hoxa2	Hoxa3	Hoxa7	Hoxa9	Hoxb1
C	Hoxb13	Hoxb3	Hoxb5	Hoxb8	Hoxc10	Hoxc12	Hoxc4	Hoxc5	Hoxc6	Hoxc9	Hoxd1	Hoxd10
D	Hoxd4	Htr7	Irf4	Isl1	Jun	Klf2	Klf4	Lin28b	Lmx1b	Msx2	Myc	Nanog
E	Neurod1	Nfatc1	Nkx2-2	Notch2	Nr2f2	Olig2	Pax1	Pax5	Pax6	Pax9	Pcna	Pitx2
F	Pitx3	Pou4f1	Pou4f2	Pou5f1	Pparg	Rb1	Rumx1	Six2	Smad2	Sox2	Sox6	Sox9
G	Sp1	Stat1	Stat3	Tbx5	Tdgf1	Tert	Tlx3	Vdr	Wtn	Wt1	Zfpn2	Zic1
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM0643234	ENSMUST00000031650.3	Cdx2	ENSMUSG0000029646	caudal type homeobox 2 Source MGI Symbol Acc MGI 88361
A02	UPFM0834522	ENSMUST00000069334.7	Dach1	ENSMUSG0000055639	dachshund family transcription factor 1 Source MGI Symbol Acc MGI 1277991
A03	UPFM1002357	ENSMUST00000037119.3	Dlx1	ENSMUSG0000041911	distal-less homeobox 1 Source MGI Symbol Acc MGI 94901
A04	UPFM1005518	ENSMUST000000134249.1	Dlx2	ENSMUSG0000023391	distal-less homeobox 2 Source MGI Symbol Acc MGI 94902
A05	UPFM0842138	ENSMUST00000072997.9	Dnmt3b	ENSMUSG0000027478	DNA methyltransferase 3B Source MGI Symbol Acc MGI 1261819
A06	UPFM0818834	ENSMUST000000225200.1	Egr3	ENSMUSG0000033730	early growth response 3 Source MGI Symbol Acc MGI 1306780
A07	UPFM0832263	ENSMUST000000105590.7	Esr1	ENSMUSG0000019768	estrogen receptor 1 (alpha) Source MGI Symbol Acc MGI 1352467
A08	UPFM0625647	ENSMUST000000114618.7	Ezh2	ENSMUSG0000029687	enhancer of zeste 2 polycomb repressive complex 2 subunit Source MGI Symbol Acc MGI 107940
A09	UPFM0641138	ENSMUST000000044380.7	Foxa1	ENSMUSG0000035451	forkhead box A1 Source MGI Symbol Acc MGI 1347472
A10	UPFM0668080	ENSMUST000000109964.7	Foxa2	ENSMUSG0000037025	forkhead box A2 Source MGI Symbol Acc MGI 1347476
A11	UPFM0829675	ENSMUST000000113329.9	Foxp1	ENSMUSG0000030067	forkhead box P1 Source MGI Symbol Acc MGI 1914004
A12	UPFM0746895	ENSMUST000000115469.7	Foxp2	ENSMUSG0000029563	forkhead box P2 Source MGI Symbol Acc MGI 2148705
B01	UPFM0729702	ENSMUST000000234479.1	Foxp3	ENSMUSG0000039521	forkhead box P3 Source MGI Symbol Acc MGI 1891436
B02	UPFM0715987	ENSMUST000000033502.13	Gata1	ENSMUSG0000031162	GATA binding protein 1 Source MGI Symbol Acc MGI 95661
B03	UPFM1009095	ENSMUST000000047762.9	Gata6	ENSMUSG0000005836	GATA binding protein 6 Source MGI Symbol Acc MGI 107516
B04	UPFM0684655	ENSMUST000000161056.7	Gli2	ENSMUSG0000048402	GLI-Kruppel family member GLI2 Source MGI Symbol Acc MGI 95728
B05	UPFM0782376	ENSMUST000000160392.8	Hand1	ENSMUSG0000037335	heart and neural crest derivatives expressed 1 Source MGI Symbol Acc MGI 103577
B06	UPFM0744227	ENSMUST000000125581.1	Hoxa10	ENSMUSG0000000938	homeobox A10 Source MGI Symbol Acc MGI 96171
B07	UPFM0884704	ENSMUST000000048026.9	Hoxa11	ENSMUSG0000038210	homeobox A11 Source MGI Symbol Acc MGI 96172
B08	UPFM0639501	ENSMUST000000014848.10	Hoxa2	ENSMUSG0000014704	homeobox A2 Source MGI Symbol Acc MGI 96174
B09	UPFM0701223	ENSMUST000000134831.1	Hoxa3	ENSMUSG0000079560	homeobox A3 Source MGI Symbol Acc MGI 96175
B10	UPFM0698103	ENSMUST000000140316.1	Hoxa7	ENSMUSG0000038236	homeobox A7 Source MGI Symbol Acc MGI 96179
B11	UPFM0719787	ENSMUST000000048680.7	Hoxa9	ENSMUSG0000038227	homeobox A9 Source MGI Symbol Acc MGI 96180
B12	UPFM0973936	ENSMUST000000019117.2	Hoxb1	ENSMUSG0000018973	homeobox B1 Source MGI Symbol Acc MGI 96182
C01	UPFM0876626	ENSMUST000000062709.3	Hoxb13	ENSMUSG0000049604	homeobox B13 Source MGI Symbol Acc MGI 107730
C02	UPFM0721823	ENSMUST000000055334.2	Hoxb3	ENSMUSG0000048763	homeobox B3 Source MGI Symbol Acc MGI 96184
C03	UPFM0708273	ENSMUST000000049272.4	Hoxb5	ENSMUSG0000038700	homeobox B5 Source MGI Symbol Acc MGI 96186
C04	UPFM0888553	ENSMUST000000168043.1	Hoxb8	ENSMUSG0000056648	homeobox B8 Source MGI Symbol Acc MGI 96189
C05	UPFM0900994	ENSMUST000000001699.7	Hoxc10	ENSMUSG0000022484	homeobox C10 Source MGI Symbol Acc MGI 96192
C06	UPFM0839241	ENSMUST000000055562.2	Hoxc12	ENSMUSG0000050328	homeobox C12 Source MGI Symbol Acc MGI 96194
C07	UPFM0733415	ENSMUST000000165375.2	Hoxc4	ENSMUSG0000075394	homeobox C4 Source MGI Symbol Acc MGI 96195
C08	UPFM0720565	ENSMUST000000174869.1	Hoxc5	ENSMUSG0000022485	homeobox C5 Source MGI Symbol Acc MGI 96196
C09	UPFM0746982	ENSMUST000000173210.1	Hoxc6	ENSMUSG0000001661	homeobox C6 Source MGI Symbol Acc MGI 96197
C10	UPFM0823987	ENSMUST000000173306.1	Hoxc9	ENSMUSG0000036139	homeobox C9 Source MGI Symbol Acc MGI 96199
	UPFM112634	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	6	047793.5	Hoxd1	000042448	homeobox D1 Source MGI Symbol Acc MGI 96201
C12	UPFM072525 4	ENSMUST00000 061745.4	Hoxd10	ENSMUSG00 000050368	homeobox D10 Source MGI Symbol Acc MGI 96202
D01	UPFM063050 3	ENSMUST00000 111980.3	Hoxd4	ENSMUSG00 000101174	homeobox D4 Source MGI Symbol Acc MGI 96208
D02	UPFM093812 7	ENSMUST00000 164781.1	Htr7	ENSMUSG00 000024798	5-hydroxytryptamine (serotonin) receptor 7 Source MGI Symbol Acc MGI 99841
D03	UPFM091318 1	ENSMUST00000 176684.7	Irx4	ENSMUSG00 000021604	Iroquois homeobox 4 Source MGI Symbol Acc MGI 1355275
D04	UPFM074124 3	ENSMUST00000 176044.2	Isl1	ENSMUSG00 000042258	ISL1 transcription factor, LIM/homeodomain Source MGI Symbol Acc MGI 101791
D05	UPFM097521 6	ENSMUST00000 107094.1	Jun	ENSMUSG00 000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D06	UPFM086886 1	ENSMUST00000 067912.7	Klf2	ENSMUSG00 000055148	Kruppel-like factor 2 (lung) Source MGI Symbol Acc MGI 1342772
D07	UPFM077094 3	ENSMUST00000 107619.2	Klf4	ENSMUSG00 000003032	Kruppel-like factor 4 (gut) Source MGI Symbol Acc MGI 1342287
D08	UPFM077207 1	ENSMUST00000 079390.6	Lin28b	ENSMUSG00 000063804	lin-28 homolog B (C. elegans) Source MGI Symbol Acc MGI 3584032
D09	UPFM076121 7	ENSMUST00000 137559.2	Lmx1b	ENSMUSG00 000038765	LIM homeobox transcription factor 1 beta Source MGI Symbol Acc MGI 1100513
D10	UPFM080790 0	ENSMUST00000 021922.9	Msx2	ENSMUSG00 000021469	msh homeobox 2 Source MGI Symbol Acc MGI 97169
D11	UPFM081421 4	ENSMUST00000 161976.7	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
D12	UPFM094958 9	ENSMUST00000 112581.7	Nanog	ENSMUSG00 000012396	Nanog homeobox Source MGI Symbol Acc MGI 1919200
E01	UPFM066462 4	ENSMUST00000 041099.4	Neurod1	ENSMUSG00 000034701	neurogenic differentiation 1 Source MGI Symbol Acc MGI 1339708
E02	UPFM095588 1	ENSMUST00000 170905.8	Nfatc1	ENSMUSG00 000033016	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1 Source MGI Symbol Acc MGI 102469
E03	UPFM078563 2	ENSMUST00000 109970.4	Nkx2-2	ENSMUSG00 000027434	NK2 homeobox 2 Source MGI Symbol Acc MGI 97347
E04	UPFM093566 5	ENSMUST00000 079812.7	Notch2	ENSMUSG00 000027878	notch 2 Source MGI Symbol Acc MGI 97364
E05	UPFM094917 7	ENSMUST00000 089565.5	Nr2f2	ENSMUSG00 000030551	nuclear receptor subfamily 2, group F, member 2 Source MGI Symbol Acc MGI 1352452
E06	UPFM080070 9	ENSMUST00000 035608.9	Olig2	ENSMUSG00 000039830	oligodendrocyte transcription factor 2 Source MGI Symbol Acc MGI 1355331
E07	UPFM094790 4	ENSMUST00000 109968.2	Pax1	ENSMUSG00 000037034	paired box 1 Source MGI Symbol Acc MGI 97485
E08	UPFM074642 0	ENSMUST00000 174319.7	Pax5	ENSMUSG00 000014030	paired box 5 Source MGI Symbol Acc MGI 97489
E09	UPFM072669 9	ENSMUST00000 111085.7	Pax6	ENSMUSG00 000027168	paired box 6 Source MGI Symbol Acc MGI 97490
E10	UPFM097645 3	ENSMUST00000 153250.8	Pax9	ENSMUSG00 000001497	paired box 9 Source MGI Symbol Acc MGI 97493
E11	UPFM069101 9	ENSMUST00000 140338.1	Pcna	ENSMUSG00 000027342	proliferating cell nuclear antigen Source MGI Symbol Acc MGI 97503
E12	UPFM083472 7	ENSMUST00000 172645.7	Pitx2	ENSMUSG00 000028023	paired-like homeodomain transcription factor 2 Source MGI Symbol Acc MGI 109340
F01	UPFM094956 0	ENSMUST00000 026259.15	Pitx3	ENSMUSG00 000025229	paired-like homeodomain transcription factor 3 Source MGI Symbol Acc MGI 1100498
F02	UPFM087776 0	ENSMUST00000 053016.9	Pou4f1	ENSMUSG00 000048349	POU domain, class 4, transcription factor 1 Source MGI Symbol Acc MGI 102525
F03	UPFM088627 6	ENSMUST00000 034115.4	Pou4f2	ENSMUSG00 000031688	POU domain, class 4, transcription factor 2 Source MGI Symbol Acc MGI 102524
F04	UPFM093822 6	ENSMUST00000 025271.16	Pou5f1	ENSMUSG00 000024406	POU domain, class 5, transcription factor 1 Source MGI Symbol Acc MGI 101893
F05	UPFM084296 6	ENSMUST00000 203732.2	Pparg	ENSMUSG00 000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F06	UPFM077278 8	ENSMUST00000 022701.6	Rb1	ENSMUSG00 000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F07	UPFM072805 9	ENSMUST00000 113956.9	Runx1	ENSMUSG00 000022952	runt related transcription factor 1 Source MGI Symbol Acc MGI 99852
F08	UPFM074517 4	ENSMUST00000 163568.3	Six2	ENSMUSG00 000024134	sine oculis-related homeobox 2 Source MGI Symbol Acc MGI 102778
F09	UPFM077443 3	ENSMUST00000 172198.7	Smad2	ENSMUSG00 000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
F10	UPFM080676 7	ENSMUST00000 099151.5	Sox2	ENSMUSG00 000074637	SRY (sex determining region Y)-box 2 Source MGI Symbol Acc MGI 98364

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM084910 0	ENSMUST00000 205980.1	Sox6	ENSMUSG00 000051910	SRY (sex determining region Y)-box 6 Source MGI Symbol Acc MGI 98368
F12	UPFM071167 5	ENSMUST00000 000579.2	Sox9	ENSMUSG00 000000567	SRY (sex determining region Y)-box 9 Source MGI Symbol Acc MGI 98371
G01	UPFM083079 3	ENSMUST00000 001326.6	Sp1	ENSMUSG00 000001280	trans-acting transcription factor 1 Source MGI Symbol Acc MGI 98372
G02	UPFM071531 5	ENSMUST00000 186574.6	Stat1	ENSMUSG00 000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G03	UPFM098484 5	ENSMUST00000 092671.11	Stat3	ENSMUSG00 000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G04	UPFM067925 2	ENSMUST00000 202723.3	Tbx5	ENSMUSG00 000018263	T-box 5 Source MGI Symbol Acc MGI 102541
G05	UPFM099001 1	ENSMUST00000 035075.12	Tdgf1	ENSMUSG00 000032494	teratocarcinoma-derived growth factor 1 Source MGI Symbol Acc MGI 98658
G06	UPFM088336 8	ENSMUST00000 022104.8	Terf	ENSMUSG00 000021611	telomerase reverse transcriptase Source MGI Symbol Acc MGI 1202709
G07	UPFM112634 3	ENSMUST00000 037746.7	Tlx3	ENSMUSG00 000040610	T cell leukemia, homeobox 3 Source MGI Symbol Acc MGI 1351209
G08	UPFM099996 3	ENSMUST00000 023119.14	Vdr	ENSMUSG00 000022479	vitamin D (1,25-dihydroxyvitamin D3) receptor Source MGI Symbol Acc MGI 103076
G09	UPFM065431 5	ENSMUST00000 211498.1	Wrrn	ENSMUSG00 000031583	Werner syndrome RecQ like helicase Source MGI Symbol Acc MGI 109635
G10	UPFM100747 1	ENSMUST00000 111098.7	Wt1	ENSMUSG00 000016458	Wilms tumor 1 homolog Source MGI Symbol Acc MGI 98968
G11	UPFM100314 7	ENSMUST00000 053467.5	Zfpn2	ENSMUSG00 000022306	zinc finger protein, multitype 2 Source MGI Symbol Acc MGI 1334444
G12	UPFM071973 2	ENSMUST00000 034927.12	Zic1	ENSMUSG00 000032368	zinc finger protein of the cerebellum 1 Source MGI Symbol Acc MGI 106683
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 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 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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