

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

Mouse Embryonic Stem Cells

Cat. no. 249955 UPMM-081ZR

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	Acta2	Aicda	Alb	Alpl	Ccna2	Cd44	Cdc42	Cdk1	Chd1	Chd7	Cno3	Des
B	Dppa2	Dppa3	Dppa4	Dppa5a	En2	Eng	Esrrb	Ev2	Fgf2	Fgf5	Flii	Gata1
C	Gata2	Gata6	Gdf3	Gfap	Gsc	Hand1	Hnf4a	Hpa9	Isl1	Kat5	Klf4	Lin28a
D	Meis1	Mesp1	Mix1	Mybl2	Myc	Myod1	Nanog	Ncam1	Nes	Nkx2-5	Nr0b1	Nr5a2
E	Nr6a1	Nr5e	Olig2	Otx2	Paf1	Pax6	Pou5f1	Prdm14	Rif1	Sall4	Scn1a	Smad1
F	Smad2	Smad3	Sox15	Sox17	Sox2	Sox3	Sox7	Stat3	T	Tagln	Tal1	Tat
G	Tbx3	Tcf3	Td1	Tdgf1	Tek	Tert	Thap11	Thy1	Trim28	Uhf1	Zfp42	Zfx
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	QIC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM065194 2	ENSMUST00000 039631.9	Acta2	ENSMUSG00 000035783	actin, alpha 2, smooth muscle, aorta Source MGI Symbol Acc MGI 87909
A02	UPFM062985 2	ENSMUST00000 043301.13	Aicda	ENSMUSG00 000040627	activation-induced cytidine deaminase Source MGI Symbol Acc MGI 1342279
A03	UPFM080918 1	ENSMUST00000 201356.1	Alb	ENSMUSG00 000029368	albumin Source MGI Symbol Acc MGI 87991
A04	UPFM088710 7	ENSMUST00000 030551.10	Alpl	ENSMUSG00 000028766	alkaline phosphatase, liver/bone/kidney Source MGI Symbol Acc MGI 87983
A05	UPFM088857 5	ENSMUST00000 029270.9	Ccna2	ENSMUSG00 000027715	cyclin A2 Source MGI Symbol Acc MGI 108069
A06	UPFM095220 9	ENSMUST00000 111192.2	Cd44	ENSMUSG00 00005087	CD44 antigen Source MGI Symbol Acc MGI 88338
A07	UPFM073725 4	ENSMUST00000 030417.9	Cdc42	ENSMUSG00 000006699	cell division cycle 42 Source MGI Symbol Acc MGI 106211
A08	UPFM081094 4	ENSMUST00000 152448.1	Cdk1	ENSMUSG00 000019942	cyclin-dependent kinase 1 Source MGI Symbol Acc MGI 88351
A09	UPFM091870 3	ENSMUST00000 173311.7	Chd1	ENSMUSG00 000023852	chromodomain helicase DNA binding protein 1 Source MGI Symbol Acc MGI 88393
A10	UPFM083714 1	ENSMUST00000 039267.9	Chd7	ENSMUSG00 000041235	chromodomain helicase DNA binding protein 7 Source MGI Symbol Acc MGI 2444748
A11	UPFM068677 0	ENSMUST00000 132344.7	Cnot3	ENSMUSG00 000035632	CCR4-NOT transcription complex, subunit 3 Source MGI Symbol Acc MGI 2385261
A12	UPFM099825 8	ENSMUST00000 125948.1	Des	ENSMUSG00 000026208	desmin Source MGI Symbol Acc MGI 94885
B01	UPFM073502 5	ENSMUST00000 097175.4	Dppa2	ENSMUSG00 000072419	developmental pluripotency associated 2 Source MGI Symbol Acc MGI 2157523
B02	UPFM079746 0	ENSMUST00000 123429.1	Dppa3	ENSMUSG00 000046323	developmental pluripotency-associated 3 Source MGI Symbol Acc MGI 1920958
B03	UPFM098778 7	ENSMUST00000 096045.8	Dppa4	ENSMUSG00 000058550	developmental pluripotency associated 4 Source MGI Symbol Acc MGI 2157525
B04	UPFM091468 1	ENSMUST00000 071991.5	Dppa5a	ENSMUSG00 000060461	developmental pluripotency associated 5A Source MGI Symbol Acc MGI 101800
B05	UPFM082043 2	ENSMUST00000 036177.8	En2	ENSMUSG00 000039095	engrailed 2 Source MGI Symbol Acc MGI 95390
B06	UPFM062460 8	ENSMUST00000 009705.13	Eng	ENSMUSG00 000026814	endoglin Source MGI Symbol Acc MGI 95392
B07	UPFM076712 2	ENSMUST00000 110203.7	Esrrb	ENSMUSG00 000021255	estrogen related receptor, beta Source MGI Symbol Acc MGI 1346832
B08	UPFM095252 7	ENSMUST00000 108147.2	Etv2	ENSMUSG00 000006311	ets variant 2 Source MGI Symbol Acc MGI 99253
B09	UPFM073062 9	ENSMUST00000 145228.1	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
B10	UPFM100762 7	ENSMUST00000 200059.1	Fgf5	ENSMUSG00 000029337	fibroblast growth factor 5 Source MGI Symbol Acc MGI 95519
B11	UPFM074992 8	ENSMUST00000 137226.1	Flii	ENSMUSG00 000002812	flightless 1 actin binding protein Source MGI Symbol Acc MGI 1342286
B12	UPFM071598 7	ENSMUST00000 033502.13	Gata1	ENSMUSG00 000031162	GATA binding protein 1 Source MGI Symbol Acc MGI 95661
C01	UPFM074268 8	ENSMUST00000 203579.1	Gata2	ENSMUSG00 000015053	GATA binding protein 2 Source MGI Symbol Acc MGI 95662
C02	UPFM100909 5	ENSMUST00000 047762.9	Gata6	ENSMUSG00 000005836	GATA binding protein 6 Source MGI Symbol Acc MGI 107516
C03	UPFM079120 1	ENSMUST00000 032211.4	Gdf3	ENSMUSG00 000030117	growth differentiation factor 3 Source MGI Symbol Acc MGI 95686
C04	UPFM085676 1	ENSMUST00000 077902.4	Gfap	ENSMUSG00 000020932	glial fibrillary acidic protein Source MGI Symbol Acc MGI 95697
C05	UPFM093480 2	ENSMUST00000 021513.5	Gsc	ENSMUSG00 000021095	goosecoid homeobox Source MGI Symbol Acc MGI 95841
C06	UPFM078237 6	ENSMUST00000 160392.8	Hand1	ENSMUSG00 000037335	heart and neural crest derivatives expressed 1 Source MGI Symbol Acc MGI 103577
C07	UPFM089220 5	ENSMUST00000 137449.1	Hnf4a	ENSMUSG00 000017950	hepatic nuclear factor 4, alpha Source MGI Symbol Acc MGI 109128
C08	UPFM079048 3	ENSMUST00000 025217.10	Hspa9	ENSMUSG00 000024359	heat shock protein 9 Source MGI Symbol Acc MGI 96245
C09	UPFM074124 3	ENSMUST00000 176044.2	Isl1	ENSMUSG00 000042258	ISL1 transcription factor, LIM/homeodomain Source MGI Symbol Acc MGI 101791
C10	UPFM095529 9	ENSMUST00000 235701.1	Kat5	ENSMUSG00 000024926	K(lysine) acetyltransferase 5 Source MGI Symbol Acc MGI 1932051
	UPFM077094	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	3	107619.2	Klf4	000003032	Kruppel-like factor 4 (gut) Source MGI Symbol Acc MGI 1342287
C12	UPFM090224 1	ENSMUST00000 176113.7	Lin28a	ENSMUSG00 000050966	lin-28 homolog A (C. elegans) Source MGI Symbol Acc MGI 1890546
D01	UPFM076165 7	ENSMUST00000 144988.7	Meis1	ENSMUSG00 000020160	Meis homeobox 1 Source MGI Symbol Acc MGI 104717
D02	UPFM073278 5	ENSMUST00000 032760.5	Mesp1	ENSMUSG00 000030544	mesoderm posterior 1 Source MGI Symbol Acc MGI 107785
D03	UPFM080414 9	ENSMUST00000 027778.7	Mix1	ENSMUSG00 000026497	Mix1 homeobox-like 1 (Xenopus laevis) Source MGI Symbol Acc MGI 1351322
D04	UPFM097209 4	ENSMUST00000 018005.9	Mybl2	ENSMUSG00 000017861	myeloblastosis oncogene-like 2 Source MGI Symbol Acc MGI 101785
D05	UPFM081421 4	ENSMUST00000 161976.7	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
D06	UPFM063561 8	ENSMUST00000 072514.2	Myod1	ENSMUSG00 000009471	myogenic differentiation 1 Source MGI Symbol Acc MGI 97275
D07	UPFM094958 9	ENSMUST00000 112581.7	Nanog	ENSMUSG00 000012396	Nanog homeobox Source MGI Symbol Acc MGI 1919200
D08	UPFM068412 7	ENSMUST00000 166811.8	Ncam1	ENSMUSG00 000039542	neural cell adhesion molecule 1 Source MGI Symbol Acc MGI 97281
D09	UPFM097557 2	ENSMUST00000 159830.1	Nes	ENSMUSG00 000004891	nestin Source MGI Symbol Acc MGI 101784
D10	UPFM075936 1	ENSMUST00000 015723.4	Nkx2-5	ENSMUSG00 000015579	NK2 homeobox 5 Source MGI Symbol Acc MGI 97350
D11	UPFM066575 4	ENSMUST00000 026036.4	Nr0b1	ENSMUSG00 000025056	nuclear receptor subfamily 0, group B, member 1 Source MGI Symbol Acc MGI 1352460
D12	UPFM092473 0	ENSMUST00000 192587.1	Nr5a2	ENSMUSG00 000026398	nuclear receptor subfamily 5, group A, member 2 Source MGI Symbol Acc MGI 1346834
E01	UPFM062254 6	ENSMUST00000 142113.7	Nr6a1	ENSMUSG00 000063972	nuclear receptor subfamily 6, group A, member 1 Source MGI Symbol Acc MGI 1352459
E02	UPFM077356 8	ENSMUST00000 034992.7	Nt5e	ENSMUSG00 000032420	5 nucleotidase, ecto Source MGI Symbol Acc MGI 99782
E03	UPFM080070 9	ENSMUST00000 035608.9	Olig2	ENSMUSG00 000039830	oligodendrocyte transcription factor 2 Source MGI Symbol Acc MGI 1355331
E04	UPFM082075 3	ENSMUST00000 144465.7	Otx2	ENSMUSG00 000021848	orthodenticle homeobox 2 Source MGI Symbol Acc MGI 97451
E05	UPFM085147 7	ENSMUST00000 146886.1	Paf1	ENSMUSG00 000003437	Paf1, RNA polymerase II complex component Source MGI Symbol Acc MGI 1923988
E06	UPFM072669 9	ENSMUST00000 111085.7	Pax6	ENSMUSG00 000027168	paired box 6 Source MGI Symbol Acc MGI 97490
E07	UPFM093822 6	ENSMUST00000 025271.16	Pou5f1	ENSMUSG00 000024406	POU domain, class 5, transcription factor 1 Source MGI Symbol Acc MGI 101893
E08	UPFM078942 9	ENSMUST00000 047577.6	Prdm14	ENSMUSG00 000042414	PR domain containing 14 Source MGI Symbol Acc MGI 3588194
E09	UPFM062190 4	ENSMUST00000 112693.9	Rif1	ENSMUSG00 000036202	replication timing regulatory factor 1 Source MGI Symbol Acc MGI 1098622
E10	UPFM080981 5	ENSMUST00000 075044.9	Sall4	ENSMUSG00 000027547	spalt like transcription factor 4 Source MGI Symbol Acc MGI 2139360
E11	UPFM071401 9	ENSMUST00000 094951.9	Scn1a	ENSMUSG00 000064329	sodium channel, voltage-gated, type I, alpha Source MGI Symbol Acc MGI 98246
E12	UPFM099034 9	ENSMUST00000 210678.1	Smad1	ENSMUSG00 000031681	SMAD family member 1 Source MGI Symbol Acc MGI 109452
F01	UPFM077443 3	ENSMUST00000 172198.7	Smad2	ENSMUSG00 000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
F02	UPFM088392 2	ENSMUST00000 034973.9	Smad3	ENSMUSG00 000032402	SMAD family member 3 Source MGI Symbol Acc MGI 1201674
F03	UPFM067199 2	ENSMUST00000 047373.5	Sox15	ENSMUSG00 000041287	SRY (sex determining region Y)-box 15 Source MGI Symbol Acc MGI 98363
F04	UPFM067947 2	ENSMUST00000 192650.5	Sox17	ENSMUSG00 000025902	SRY (sex determining region Y)-box 17 Source MGI Symbol Acc MGI 107543
F05	UPFM080676 7	ENSMUST00000 099151.5	Sox2	ENSMUSG00 000074637	SRY (sex determining region Y)-box 2 Source MGI Symbol Acc MGI 98364
F06	UPFM093524 0	ENSMUST00000 135107.3	Sox3	ENSMUSG00 000045179	SRY (sex determining region Y)-box 3 Source MGI Symbol Acc MGI 98365
F07	UPFM065840 3	ENSMUST00000 079652.6	Sox7	ENSMUSG00 000063060	SRY (sex determining region Y)-box 7 Source MGI Symbol Acc MGI 98369
F08	UPFM098484 5	ENSMUST00000 092671.11	Stat3	ENSMUSG00 000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
F09	UPFM063912 5	ENSMUST00000 177118.1	T	ENSMUSG00 000062327	brachyury, T-box transcription factor T Source MGI Symbol Acc MGI 98472
F10	UPFM079487 9	ENSMUST00000 215509.1	Tagln	ENSMUSG00 000032085	transgelin Source MGI Symbol Acc MGI 106012

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM089425 9	ENSMUST00000 161601.7	Tal1	ENSMUSG00 000028717	T cell acute lymphocytic leukemia 1 Source MGI Symbol Acc MGI 98480
F12	UPFM091477 0	ENSMUST00000 143741.1	Tat	ENSMUSG00 000001670	tyrosine aminotransferase Source MGI Symbol Acc MGI 98487
G01	UPFM070419 1	ENSMUST00000 145647.1	Tbx3	ENSMUSG00 000018604	T-box 3 Source MGI Symbol Acc MGI 98495
G02	UPFM100535 0	ENSMUST00000 105342.7	Tcf3	ENSMUSG00 000020167	transcription factor 3 Source MGI Symbol Acc MGI 98510
G03	UPFM096560 9	ENSMUST00000 176579.1	Tcl1	ENSMUSG00 000041359	T cell lymphoma breakpoint 1 Source MGI Symbol Acc MGI 1097166
G04	UPFM099001 1	ENSMUST00000 035075.12	Tdgf1	ENSMUSG00 000032494	teratocarcinoma-derived growth factor 1 Source MGI Symbol Acc MGI 98658
G05	UPFM093936 7	ENSMUST00000 131958.1	Tek	ENSMUSG00 000006386	TEK receptor tyrosine kinase Source MGI Symbol Acc MGI 98664
G06	UPFM088336 8	ENSMUST00000 022104.8	Tert	ENSMUSG00 000021611	telomerase reverse transcriptase Source MGI Symbol Acc MGI 1202709
G07	UPFM079255 2	ENSMUST00000 040445.8	Thap11	ENSMUSG00 000036442	THAP domain containing 11 Source MGI Symbol Acc MGI 1930964
G08	UPFM101144 2	ENSMUST00000 215156.1	Thy1	ENSMUSG00 000032011	thymus cell antigen 1, theta Source MGI Symbol Acc MGI 98747
G09	UPFM095073 4	ENSMUST00000 142421.8	Trim28	ENSMUSG00 000005566	tripartite motif-containing 28 Source MGI Symbol Acc MGI 109274
G10	UPFM082948 2	ENSMUST00000 168457.2	Uf1	ENSMUSG00 000047751	undifferentiated embryonic cell transcription factor 1 Source MGI Symbol Acc MGI 1276125
G11	UPFM065117 2	ENSMUST00000 211248.1	Zfp42	ENSMUSG00 000051176	zinc finger protein 42 Source MGI Symbol Acc MGI 99187
G12	UPFM076659 0	ENSMUST00000 113927.7	Zfx	ENSMUSG00 000079509	zinc finger protein X-linked Source MGI Symbol Acc MGI 99211
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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