

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

Mouse Cell Lineage Identification

Cat. no. 249955 UPMM-508ZR

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	Alb	Apoh	Aqp1	Bmp4	Ccr5	Cd34	Cd3e	Cd79a	Chat	Col10a1	Comp	Cpa1
B	Ctsk	Dcn	Dcx	Dnmt3b	Dpp4	Eno1	Fabp7	Fgf5	Foxa1	Foxd3	Foxg1	G6pc
C	Gad1	Gad2	Galc	Gata1	Gata2	Gata6	Gbx2	Gdf3	Gfap	Hand1	Hand2	Hes5
D	Hnf4a	Ibsp	Igf2	Ins2	Itgb4	Krt10	Krt14	Krt19	Lefty1	Map3k12	Miox	Mxd1
E	Msln	Myh1	Myh11	Myh7	Myl3	Nanog	Neurod1	Neurog2	Nkx2-2	Nppa	Olig2	Otx2
F	Pdgfra	Podxl	Pou4f2	Pou5f1	Prom1	Ptcrn	Rcvm	Runx1	Ryr2	Sftpb	Sftpd	Slc17a6
G	Slc17a7	Slc2a2	Slc32a1	Smtn	Sox17	Sox2	Sox7	T	Tat	Tyr	Zfp42	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	UPFM080918 1	ENSMUST00000 201356.1	Alb	ENSMUSG00 000029368	albumin Source MGI Symbol Acc MGI 87991
A02	UPFM077856 7	ENSMUST00000 000049.5	ApoH	ENSMUSG00 000000049	apolipoprotein H Source MGI Symbol Acc MGI 88058
A03	UPFM093390 2	ENSMUST00000 004774.3	Aqp1	ENSMUSG00 000004655	aquaporin 1 Source MGI Symbol Acc MGI 103201
A04	UPFM097472 7	ENSMUST00000 100676.2	Bmp4	ENSMUSG00 000021835	bone morphogenetic protein 4 Source MGI Symbol Acc MGI 88180
A05	UPFM078922 4	ENSMUST00000 111442.2	Ccr5	ENSMUSG00 000079227	chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182
A06	UPFM096481 0	ENSMUST00000 194036.1	Cd34	ENSMUSG00 000016494	CD34 antigen Source MGI Symbol Acc MGI 88329
A07	UPFM082079 4	ENSMUST00000 214582.1	Cd3e	ENSMUSG00 000032093	CD3 antigen, epsilon polypeptide Source MGI Symbol Acc MGI 88332
A08	UPFM075213 2	ENSMUST00000 003469.7	Cd79a	ENSMUSG00 000003379	CD79A antigen (immunoglobulin-associated alpha) Source MGI Symbol Acc MGI 101774
A09	UPFM083998 5	ENSMUST00000 070125.5	Chat	ENSMUSG00 000021919	choline acetyltransferase Source MGI Symbol Acc MGI 88392
A10	UPFM063248 3	ENSMUST00000 105511.1	Col10a1	ENSMUSG00 000039462	collagen, type X, alpha 1 Source MGI Symbol Acc MGI 88445
A11	UPFM087967 5	ENSMUST00000 003659.8	Comp	ENSMUSG00 000031849	cartilage oligomeric matrix protein Source MGI Symbol Acc MGI 88469
A12	UPFM088372 0	ENSMUST00000 031806.9	Cpa1	ENSMUSG00 000054446	carboxypeptidase A1, pancreatic Source MGI Symbol Acc MGI 88478
B01	UPFM075734 4	ENSMUST00000 015664.4	Ctsk	ENSMUSG00 000028111	cathepsin K Source MGI Symbol Acc MGI 107823
B02	UPFM067651 1	ENSMUST00000 219539.1	Dcn	ENSMUSG00 000019929	decorin Source MGI Symbol Acc MGI 94872
B03	UPFM078760 6	ENSMUST00000 033642.9	Dcx	ENSMUSG00 000031285	doublecortin Source MGI Symbol Acc MGI 1277171
B04	UPFM084213 8	ENSMUST00000 072997.9	Dnmt3b	ENSMUSG00 000027478	DNA methyltransferase 3B Source MGI Symbol Acc MGI 1261819
B05	UPFM077525 3	ENSMUST00000 149306.1	Dpp4	ENSMUSG00 000035000	dipeptidylpeptidase 4 Source MGI Symbol Acc MGI 94919
B06	UPFM076721 3	ENSMUST00000 141931.1	Eno1	ENSMUSG00 000063524	enolase 1, alpha non-neuron Source MGI Symbol Acc MGI 95393
B07	UPFM067317 4	ENSMUST00000 165013.1	Fabp7	ENSMUSG00 000019874	fatty acid binding protein 7, brain Source MGI Symbol Acc MGI 101916
B08	UPFM100762 7	ENSMUST00000 200059.1	Fgf5	ENSMUSG00 000029337	fibroblast growth factor 5 Source MGI Symbol Acc MGI 95519
B09	UPFM064113 8	ENSMUST00000 044380.7	Foxa1	ENSMUSG00 000035451	forkhead box A1 Source MGI Symbol Acc MGI 1347472
B10	UPFM064101 0	ENSMUST00000 087285.4	Foxd3	ENSMUSG00 000067261	forkhead box D3 Source MGI Symbol Acc MGI 1347473
B11	UPFM070685 1	ENSMUST00000 179669.2	Foxg1	ENSMUSG00 000020950	forkhead box G1 Source MGI Symbol Acc MGI 1347464
B12	UPFM069116 4	ENSMUST00000 019469.2	G6pc	ENSMUSG00 000078650	glucose-6-phosphatase, catalytic Source MGI Symbol Acc MGI 95607
C01	UPFM065398 9	ENSMUST00000 130998.7	Gad1	ENSMUSG00 000070880	glutamate decarboxylase 1 Source MGI Symbol Acc MGI 95632
C02	UPFM064863 7	ENSMUST00000 028123.3	Gad2	ENSMUSG00 000026787	glutamic acid decarboxylase 2 Source MGI Symbol Acc MGI 95634
C03	UPFM101240 9	ENSMUST00000 222042.1	Galc	ENSMUSG00 000021003	galactosylceramidase Source MGI Symbol Acc MGI 95636
C04	UPFM071598 7	ENSMUST00000 033502.13	Gata1	ENSMUSG00 000031162	GATA binding protein 1 Source MGI Symbol Acc MGI 95661
C05	UPFM074268 8	ENSMUST00000 203579.1	Gata2	ENSMUSG00 000015053	GATA binding protein 2 Source MGI Symbol Acc MGI 95662
C06	UPFM100909 5	ENSMUST00000 047762.9	Gata6	ENSMUSG00 000005836	GATA binding protein 6 Source MGI Symbol Acc MGI 107516
C07	UPFM062268 6	ENSMUST00000 036954.8	Gbx2	ENSMUSG00 000034486	gastrulation brain homeobox 2 Source MGI Symbol Acc MGI 95668
C08	UPFM079120 1	ENSMUST00000 032211.4	Gdf3	ENSMUSG00 000030117	growth differentiation factor 3 Source MGI Symbol Acc MGI 95686
C09	UPFM085676 1	ENSMUST00000 077902.4	Gfap	ENSMUSG00 000020932	glial fibrillary acidic protein Source MGI Symbol Acc MGI 95697
C10	UPFM078237 6	ENSMUST00000 160392.8	Hand1	ENSMUSG00 000037335	heart and neural crest derivatives expressed 1 Source MGI Symbol Acc MGI 103577
	UPFM078133	ENSMUST00000		ENSMUSG00	heart and neural crest derivatives expressed 2 Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	8	040104.4	Hand2	000038193	103580
C12	UPFM095879 7	ENSMUST00000 049621.6	Hes5	ENSMUSG00 000048001	hes family bHLH transcription factor 5 Source MGI Symbol Acc MGI 104876
D01	UPFM089220 5	ENSMUST00000 137449.1	Hnf4a	ENSMUSG00 000017950	hepatic nuclear factor 4, alpha Source MGI Symbol Acc MGI 109128
D02	UPFM096234 0	ENSMUST00000 031246.8	Ibsp	ENSMUSG00 000029306	integrin binding sialoprotein Source MGI Symbol Acc MGI 96389
D03	UPFM080008 1	ENSMUST00000 000033.11	Igf2	ENSMUSG00 000048583	insulin-like growth factor 2 Source MGI Symbol Acc MGI 96434
D04	UPFM100267 5	ENSMUST00000 210288.1	Ins2	ENSMUSG00 000000215	insulin II Source MGI Symbol Acc MGI 96573
D05	UPFM089553 0	ENSMUST00000 151691.7	Itgb4	ENSMUSG00 000020758	integrin beta 4 Source MGI Symbol Acc MGI 96613
D06	UPFM068186 5	ENSMUST00000 211768.1	Krt10	ENSMUSG00 000019761	keratin 10 Source MGI Symbol Acc MGI 96685
D07	UPFM073270 5	ENSMUST00000 007272.7	Krt14	ENSMUSG00 000045545	keratin 14 Source MGI Symbol Acc MGI 96688
D08	UPFM100132 1	ENSMUST00000 007317.7	Krt19	ENSMUSG00 000020911	keratin 19 Source MGI Symbol Acc MGI 96693
D09	UPFM089745 7	ENSMUST00000 132087.1	Lefty1	ENSMUSG00 000038793	left right determination factor 1 Source MGI Symbol Acc MGI 107405
D10	UPFM071886 9	ENSMUST00000 023812.9	Map3k12	ENSMUSG00 000023050	mitogen-activated protein kinase kinase kinase 12 Source MGI Symbol Acc MGI 1346881
D11	UPFM067902 0	ENSMUST00000 023282.8	Miox	ENSMUSG00 000022613	myo-inositol oxygenase Source MGI Symbol Acc MGI 1891725
D12	UPFM080414 9	ENSMUST00000 027778.7	Mixl1	ENSMUSG00 000026497	Mix1 homeobox-like 1 (Xenopus laevis) Source MGI Symbol Acc MGI 1351322
E01	UPFM071636 6	ENSMUST00000 237359.1	Msln	ENSMUSG00 000063011	mesothelin Source MGI Symbol Acc MGI 1888992
E02	UPFM074151 7	ENSMUST00000 129018.7	Myh1	ENSMUSG00 000056328	myosin, heavy polypeptide 1, skeletal muscle, adult Source MGI Symbol Acc MGI 1339711
E03	UPFM094752 6	ENSMUST00000 090287.4	Myh11	ENSMUSG00 000018830	myosin, heavy polypeptide 11, smooth muscle Source MGI Symbol Acc MGI 102643
E04	UPFM091014 4	ENSMUST00000 227518.1	Myh7	ENSMUSG00 000053093	myosin, heavy polypeptide 7, cardiac muscle, beta Source MGI Symbol Acc MGI 2155600
E05	UPFM090311 3	ENSMUST00000 124267.7	Myl3	ENSMUSG00 000059741	myosin, light polypeptide 3 Source MGI Symbol Acc MGI 97268
E06	UPFM094958 9	ENSMUST00000 112581.7	Nanog	ENSMUSG00 000012396	Nanog homeobox Source MGI Symbol Acc MGI 1919200
E07	UPFM066462 4	ENSMUST00000 041099.4	Neurod1	ENSMUSG00 000034701	neurogenic differentiation 1 Source MGI Symbol Acc MGI 1339708
E08	UPFM091609 6	ENSMUST00000 029587.8	Neurog2	ENSMUSG00 000027967	neurogenin 2 Source MGI Symbol Acc MGI 109619
E09	UPFM078563 2	ENSMUST00000 109970.4	Nkx2-2	ENSMUSG00 000027434	NK2 homeobox 2 Source MGI Symbol Acc MGI 97347
E10	UPFM098042 7	ENSMUST00000 103230.4	Nppa	ENSMUSG00 000041616	natriuretic peptide type A Source MGI Symbol Acc MGI 97367
E11	UPFM080070 9	ENSMUST00000 035608.9	Olig2	ENSMUSG00 000039830	oligodendrocyte transcription factor 2 Source MGI Symbol Acc MGI 1355331
E12	UPFM082075 3	ENSMUST00000 144465.7	Otx2	ENSMUSG00 000021848	orthodenticle homeobox 2 Source MGI Symbol Acc MGI 97451
F01	UPFM073646 8	ENSMUST00000 202186.3	Pdgfra	ENSMUSG00 000029231	platelet derived growth factor receptor, alpha polypeptide Source MGI Symbol Acc MGI 97530
F02	UPFM089745 1	ENSMUST00000 026698.7	Podxl	ENSMUSG00 000025608	podocalyxin-like Source MGI Symbol Acc MGI 1351317
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	UPFM073166 3	ENSMUST00000 196853.1	Prom1	ENSMUSG00 000029086	prominin 1 Source MGI Symbol Acc MGI 1100886
F06	UPFM078570 3	ENSMUST00000 041012.8	Ptcr	ENSMUSG00 000036858	pre T cell antigen receptor alpha Source MGI Symbol Acc MGI 104857
F07	UPFM087409 8	ENSMUST00000 021290.1	Rcvrn	ENSMUSG00 000020907	recoverin Source MGI Symbol Acc MGI 97883
F08	UPFM072805 9	ENSMUST00000 113956.9	Runx1	ENSMUSG00 000022952	runt related transcription factor 1 Source MGI Symbol Acc MGI 99852
F09	UPFM062196 4	ENSMUST00000 221018.1	Ryr2	ENSMUSG00 000021313	ryanodine receptor 2, cardiac Source MGI Symbol Acc MGI 99685
F10	UPFM064508 1	ENSMUST00000 183278.7	Sftpb	ENSMUSG00 000056370	surfactant associated protein B Source MGI Symbol Acc MGI 109516

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM070463 1	ENSMUST00000 077136.4	Sftpd	ENSMUSG00 000021795	surfactant associated protein D Source MGI Symbol Acc MGI 109515
F12	UPFM094600 1	ENSMUST00000 207945.1	Slc17a6	ENSMUSG00 000030500	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6 Source MGI Symbol Acc MGI 2156052
G01	UPFM090943 5	ENSMUST00000 209634.1	Slc17a7	ENSMUSG00 000070570	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7 Source MGI Symbol Acc MGI 1920211
G02	UPFM062954 5	ENSMUST00000 029240.13	Slc2a2	ENSMUSG00 000027690	solute carrier family 2 (facilitated glucose transporter), member 2 Source MGI Symbol Acc MGI 1095438
G03	UPFM094135 8	ENSMUST00000 045738.4	Slc32a1	ENSMUSG00 000037771	solute carrier family 32 (GABA vesicular transporter), member 1 Source MGI Symbol Acc MGI 1194488
G04	UPFM073583 6	ENSMUST00000 075118.9	Smtn	ENSMUSG00 000020439	smoothelin Source MGI Symbol Acc MGI 1354727
G05	UPFM067947 2	ENSMUST00000 192650.5	Sox17	ENSMUSG00 000025902	SRY (sex determining region Y)-box 17 Source MGI Symbol Acc MGI 107543
G06	UPFM080676 7	ENSMUST00000 099151.5	Sox2	ENSMUSG00 000074637	SRY (sex determining region Y)-box 2 Source MGI Symbol Acc MGI 98364
G07	UPFM065840 3	ENSMUST00000 079652.6	Sox7	ENSMUSG00 000063060	SRY (sex determining region Y)-box 7 Source MGI Symbol Acc MGI 98369
G08	UPFM063912 5	ENSMUST00000 177118.1	T	ENSMUSG00 000062327	brachyury, T-box transcription factor T Source MGI Symbol Acc MGI 98472
G09	UPFM091477 0	ENSMUST00000 143741.1	Tat	ENSMUSG00 000001670	tyrosine aminotransferase Source MGI Symbol Acc MGI 98487
G10	UPFM077212 1	ENSMUST00000 004770.6	Tyr	ENSMUSG00 000004651	tyrosinase Source MGI Symbol Acc MGI 98880
G11	UPFM065117 2	ENSMUST00000 211248.1	Zfp42	ENSMUSG00 000051176	zinc finger protein 42 Source MGI Symbol Acc MGI 99187
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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