

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

Mouse Stem Cell

Cat. no. 249955 UPMM-405ZR

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	Abcg2	Acan	Actc1	Adar	Aldh1a1	Aldh2	Apc	Ascl2	Axin1	Bglap	Bmp1	Bmp2
B	Bmp3	Birc	Ccna2	Ccnd1	Ccnd2	Ccne1	Cd19	Cd3d	Cd4	Cd44	Cd8a	Cd8b1
C	Cdc42	Cdh1	Cdh2	Cdk1	Col1a1	Col2a1	Col9a1	Ctnna1	Cxcl12	Dhh	Dll1	Dll3
D	Dtx1	Dtx2	Dvl1	Ep300	Fgf1	Fgf2	Fgf3	Fgf4	Fgfr1	Foxa2	Frat1	Fzd1
E	Gdf2	Gdf3	Gja1	Gjb1	Hdac1	Hdac2	Hspa9	Igf1	Isl1	Jag1	Kat2a	Krt15
F	Mme	Mx1	Myc	Myod1	Kat8	Kat7	Ncam1	Neurog2	Notch1	Notch2	Numb	Pard6a
G	Pdx1	Ppard	Pparg	Rb1	S100b	Sigmar1	Sox1	Sox2	T	Tert	Tubb3	Wnt1
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	UPFM0861129	ENSMUST00000147213.7	Abcg2	ENSMUSG0000029802	ATP binding cassette subfamily G member 2 (Junior blood group) Source MGI Symbol Acc MGI 1347061
A02	UPFM0812795	ENSMUST00000032835.6	Acan	ENSMUSG0000030607	aggrecan Source MGI Symbol Acc MGI 99602
A03	UPFM0830631	ENSMUST00000090269.6	Act1	ENSMUSG0000068614	actin, alpha, cardiac muscle 1 Source MGI Symbol Acc MGI 87905
A04	UPFM0627356	ENSMUST00000118341.5	Adar	ENSMUSG0000027951	adenosine deaminase, RNA-specific Source MGI Symbol Acc MGI 1889575
A05	UPFM0775665	ENSMUST00000225337.2	Aldh1a1	ENSMUSG0000053279	aldehyde dehydrogenase family 1, subfamily A1 Source MGI Symbol Acc MGI 1353450
A06	UPFM0665817	ENSMUST00000200541.4	Aldh2	ENSMUSG0000029455	aldehyde dehydrogenase 2, mitochondrial Source MGI Symbol Acc MGI 99600
A07	UPFM0822814	ENSMUST00000163295.1	Apc	ENSMUSG0000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A08	UPFM0734928	ENSMUST00000121862.2	Ascl2	ENSMUSG0000009248	achaete-scute family bHLH transcription factor 2 Source MGI Symbol Acc MGI 96920
A09	UPFM0815766	ENSMUST00000168282.2	Axin1	ENSMUSG0000024182	axin 1 Source MGI Symbol Acc MGI 1096327
A10	UPFM0724604	ENSMUST00000076048.4	Bglap	ENSMUSG0000074483	bone gamma carboxyglutamate protein Source MGI Symbol Acc MGI 88156
A11	UPFM0756225	ENSMUST00000227944.1	Bmp1	ENSMUSG0000022098	bone morphogenetic protein 1 Source MGI Symbol Acc MGI 88176
A12	UPFM1172945	ENSMUST00000028836.6	Bmp2	ENSMUSG0000027358	bone morphogenetic protein 2 Source MGI Symbol Acc MGI 88177
B01	UPFM0808665	ENSMUST00000031278.5	Bmp3	ENSMUSG0000029335	bone morphogenetic protein 3 Source MGI Symbol Acc MGI 88179
B02	UPFM1005139	ENSMUST00000224478.1	Btrc	ENSMUSG0000025217	beta-transducin repeat containing protein Source MGI Symbol Acc MGI 1338871
B03	UPFM0888575	ENSMUST00000029270.9	Ccna2	ENSMUSG0000027715	cyclin A2 Source MGI Symbol Acc MGI 108069
B04	UPFM0933463	ENSMUST00000208193.1	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B05	UPFM0861442	ENSMUST00000201066.1	Ccnd2	ENSMUSG0000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
B06	UPFM0977827	ENSMUST00000130329.1	Ccne1	ENSMUSG0000002068	cyclin E1 Source MGI Symbol Acc MGI 88316
B07	UPFM0864996	ENSMUST00000032968.6	Cd19	ENSMUSG0000030724	CD19 antigen Source MGI Symbol Acc MGI 88319
B08	UPFM0768276	ENSMUST00000034602.8	Cd3d	ENSMUSG0000032094	CD3 antigen, delta polypeptide Source MGI Symbol Acc MGI 88331
B09	UPFM0755487	ENSMUST00000145818.1	Cd4	ENSMUSG0000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
B10	UPFM0952209	ENSMUST00000111192.2	Cd44	ENSMUSG0000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
B11	UPFM0783366	ENSMUST00000205054.1	Cd8a	ENSMUSG0000053977	CD8 antigen, alpha chain Source MGI Symbol Acc MGI 88346
B12	UPFM0905713	ENSMUST00000065248.8	Cd8b1	ENSMUSG0000053044	CD8 antigen, beta chain 1 Source MGI Symbol Acc MGI 88347
C01	UPFM0737254	ENSMUST00000030417.9	Cdc42	ENSMUSG0000006699	cell division cycle 42 Source MGI Symbol Acc MGI 106211
C02	UPFM0883177	ENSMUST00000136580.1	Cdh1	ENSMUSG0000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
C03	UPFM0692742	ENSMUST00000025166.13	Cdh2	ENSMUSG0000024304	cadherin 2 Source MGI Symbol Acc MGI 88355
C04	UPFM0810944	ENSMUST00000152448.1	Cdk1	ENSMUSG0000019942	cyclin-dependent kinase 1 Source MGI Symbol Acc MGI 88351
C05	UPFM1172946	ENSMUST00000001547.7	Col1a1	ENSMUSG0000001506	collagen, type I, alpha 1 Source MGI Symbol Acc MGI 88467
C06	UPFM1172947	ENSMUST00000088355.11	Col2a1	ENSMUSG0000022483	collagen, type II, alpha 1 Source MGI Symbol Acc MGI 88452
C07	UPFM0656519	ENSMUST00000088349.2	Col9a1	ENSMUSG0000026147	collagen, type IX, alpha 1 Source MGI Symbol Acc MGI 88465
C08	UPFM0636613	ENSMUST00000238145.1	Ctnna1	ENSMUSG0000037815	catenin (cadherin associated protein), alpha 1 Source MGI Symbol Acc MGI 88274
C09	UPFM0841368	ENSMUST00000112871.7	Cxcl12	ENSMUSG0000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
C10	UPFM0683861	ENSMUST00000229775.1	Dhh	ENSMUSG0000023000	desert hedgehog Source MGI Symbol Acc MGI 94891
	UPFM084775	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	6	129395.7	Dll1	000014773	delta like canonical Notch ligand 1 Source MGI Symbol Acc MGI 104659
C12	UPFM069572 3	ENSMUST00000 108315.3	Dll3	ENSMUSG00 000003436	delta like canonical Notch ligand 3 Source MGI Symbol Acc MGI 1096877
D01	UPFM067916 9	ENSMUST00000 144889.7	Dtx1	ENSMUSG00 000029603	deltex 1, E3 ubiquitin ligase Source MGI Symbol Acc MGI 1352744
D02	UPFM062800 9	ENSMUST00000 125827.7	Dtx2	ENSMUSG00 000004947	deltex 2, E3 ubiquitin ligase Source MGI Symbol Acc MGI 1921448
D03	UPFM078217 8	ENSMUST00000 168552.1	Dvl1	ENSMUSG00 000029071	dishevelled segment polarity protein 1 Source MGI Symbol Acc MGI 94941
D04	UPFM063958 2	ENSMUST00000 185967.2	Ep300	ENSMUSG00 000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
D05	UPFM088976 4	ENSMUST00000 139972.1	Fgf1	ENSMUSG00 000036585	fibroblast growth factor 1 Source MGI Symbol Acc MGI 95515
D06	UPFM073062 9	ENSMUST00000 145228.1	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
D07	UPFM062442 1	ENSMUST00000 155320.7	Fgf3	ENSMUSG00 000031074	fibroblast growth factor 3 Source MGI Symbol Acc MGI 95517
D08	UPFM100139 4	ENSMUST00000 208265.1	Fgf4	ENSMUSG00 000050917	fibroblast growth factor 4 Source MGI Symbol Acc MGI 95518
D09	UPFM073988 3	ENSMUST00000 167764.1	Fgfr1	ENSMUSG00 000031565	fibroblast growth factor receptor 1 Source MGI Symbol Acc MGI 95522
D10	UPFM066808 0	ENSMUST00000 109964.7	Foxa2	ENSMUSG00 000037025	forkhead box A2 Source MGI Symbol Acc MGI 1347476
D11	UPFM063286 5	ENSMUST00000 087155.4	Frat1	ENSMUSG00 000067199	frequently rearranged in advanced T cell lymphomas Source MGI Symbol Acc MGI 109450
D12	UPFM078390 1	ENSMUST00000 054294.6	Fzd1	ENSMUSG00 000044674	frizzled class receptor 1 Source MGI Symbol Acc MGI 1196625
E01	UPFM081201 1	ENSMUST00000 100720.1	Gdf2	ENSMUSG00 000072625	growth differentiation factor 2 Source MGI Symbol Acc MGI 1321394
E02	UPFM079120 1	ENSMUST00000 032211.4	Gdf3	ENSMUSG00 000030117	growth differentiation factor 3 Source MGI Symbol Acc MGI 95686
E03	UPFM082714 5	ENSMUST00000 068581.8	Gja1	ENSMUSG00 000050953	gap junction protein, alpha 1 Source MGI Symbol Acc MGI 95713
E04	UPFM063047 9	ENSMUST00000 119190.1	Gjb1	ENSMUSG00 000047797	gap junction protein, beta 1 Source MGI Symbol Acc MGI 95719
E05	UPFM093590 7	ENSMUST00000 125718.7	Hdac1	ENSMUSG00 000028800	histone deacetylase 1 Source MGI Symbol Acc MGI 108086
E06	UPFM081873 6	ENSMUST00000 019911.13	Hdac2	ENSMUSG00 000019777	histone deacetylase 2 Source MGI Symbol Acc MGI 1097691
E07	UPFM079048 3	ENSMUST00000 025217.10	Hspa9	ENSMUSG00 000024359	heat shock protein 9 Source MGI Symbol Acc MGI 96245
E08	UPFM092941 8	ENSMUST00000 121161.7	Igf1	ENSMUSG00 000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
E09	UPFM074124 3	ENSMUST00000 176044.2	Isl1	ENSMUSG00 000042258	ISL1 transcription factor, LIM/homeodomain Source MGI Symbol Acc MGI 101791
E10	UPFM083362 5	ENSMUST00000 028735.7	Jag1	ENSMUSG00 000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
E11	UPFM074448 9	ENSMUST00000 103118.3	Kat2a	ENSMUSG00 000020918	K(lysine) acetyltransferase 2A Source MGI Symbol Acc MGI 1343101
E12	UPFM093492 1	ENSMUST00000 107411.2	Krt15	ENSMUSG00 000054146	keratin 15 Source MGI Symbol Acc MGI 96689
F01	UPFM079873 9	ENSMUST00000 194324.5	Mme	ENSMUSG00 000027820	membrane metallo endopeptidase Source MGI Symbol Acc MGI 97004
F02	UPFM086565 8	ENSMUST00000 063116.9	Msx1	ENSMUSG00 000048450	msh homeobox 1 Source MGI Symbol Acc MGI 97168
F03	UPFM081421 4	ENSMUST00000 161976.7	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
F04	UPFM063561 8	ENSMUST00000 072514.2	Myod1	ENSMUSG00 000009471	myogenic differentiation 1 Source MGI Symbol Acc MGI 97275
F05	UPFM067564 3	ENSMUST00000 205357.1	Kat8	ENSMUSG00 000030801	K(lysine) acetyltransferase 8 Source MGI Symbol Acc MGI 1915023
F06	UPFM088884 8	ENSMUST00000 072621.11	Kat7	ENSMUSG00 000038909	K(lysine) acetyltransferase 7 Source MGI Symbol Acc MGI 2182799
F07	UPFM068412 7	ENSMUST00000 166811.8	Ncam1	ENSMUSG00 000039542	neural cell adhesion molecule 1 Source MGI Symbol Acc MGI 97281
F08	UPFM091609 6	ENSMUST00000 029587.8	Neurog2	ENSMUSG00 000027967	neurogenin 2 Source MGI Symbol Acc MGI 109619
F09	UPFM079598 7	ENSMUST00000 126872.7	Notch1	ENSMUSG00 000026923	notch 1 Source MGI Symbol Acc MGI 97363
F10	UPFM093566 5	ENSMUST00000 079812.7	Notch2	ENSMUSG00 000027878	notch 2 Source MGI Symbol Acc MGI 97364

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM068851 6	ENSMUST00000 135962.7	Numb	ENSMUSG00 000021224	NUMB endocytic adaptor protein Source MGI Symbol Acc MGI 107423
F12	UPFM062621 1	ENSMUST00000 211888.1	Pard6a	ENSMUSG00 000005699	par-6 family cell polarity regulator alpha Source MGI Symbol Acc MGI 1927223
G01	UPFM078010 9	ENSMUST00000 085591.6	Pdx1	ENSMUSG00 000029644	pancreatic and duodenal homeobox 1 Source MGI Symbol Acc MGI 102851
G02	UPFM096380 9	ENSMUST00000 002320.15	Ppard	ENSMUSG00 000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
G03	UPFM084296 6	ENSMUST00000 203732.2	Pparg	ENSMUSG00 000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
G04	UPFM077278 8	ENSMUST00000 022701.6	Rb1	ENSMUSG00 000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
G05	UPFM065473 2	ENSMUST00000 036387.7	S100b	ENSMUSG00 000033208	S100 protein, beta polypeptide, neural Source MGI Symbol Acc MGI 98217
G06	UPFM097730 9	ENSMUST00000 059354.14	Sigmar1	ENSMUSG00 000036078	sigma non-opioid intracellular receptor 1 Source MGI Symbol Acc MGI 1195268
G07	UPFM112651 8	ENSMUST00000 180353.1	Sox1	ENSMUSG00 000096014	SRY (sex determining region Y)-box 1 Source MGI Symbol Acc MGI 98357
G08	UPFM080676 7	ENSMUST00000 099151.5	Sox2	ENSMUSG00 000074637	SRY (sex determining region Y)-box 2 Source MGI Symbol Acc MGI 98364
G09	UPFM063912 5	ENSMUST00000 177118.1	T	ENSMUSG00 000062327	brachyury, T-box transcription factor T Source MGI Symbol Acc MGI 98472
G10	UPFM088336 8	ENSMUST00000 022104.8	Tert	ENSMUSG00 000021611	telomerase reverse transcriptase Source MGI Symbol Acc MGI 1202709
G11	UPFM074438 7	ENSMUST00000 071134.3	Tubb3	ENSMUSG00 000062380	tubulin, beta 3 class III Source MGI Symbol Acc MGI 107813
G12	UPFM069215 7	ENSMUST00000 023734.7	Wnt1	ENSMUSG00 000022997	wingless-type MMTV integration site family, member 1 Source MGI Symbol Acc MGI 98953
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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