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

Mouse Cell Junction PathwayFinder

Cat. no. 249955 UPMM-213ZA

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 (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Cav1	Cav2	Cav3	Cdh1	Cdh2	Cldn1	Cldn10	Cldn11	Cldn12	Cldn14	Cldn15	Cldn16
B	Cldn17	Cldn18	Cldn19	Cldn2	Cldn3	Cldn4	Cldn5	Cldn6	Cldn7	Cldn8	Cldn9	Dll1
C	Dsc1	Dsc2	Dsc3	Dsg1a	Dsg2	Dsg3	Dsg4	Dsp	Dst	Esam	F11r	Gja1
D	Gja3	Gja4	Gja5	Gja8	Gjb1	Gjb2	Gjb3	Gjb4	Gjb5	Gjb6	Gjc2	Gjd2
E	Gje1	Icam1	Icam2	Itga1	Itga2	Itga3	Itga4	Itga5	Itga6	Itga7	Itga8	Itga9
F	Itgal	Itgam	Itgav	Itgb1	Itgb2	Itgb3	Itgb4	Itgb5	Itgb6	Jam2	Jam3	Jup
G	Notch1	Notch2	Notch3	Notch4	Ocln	Plec	Nectin1	Nectin2	Nectin4	Tjp1	Tjp2	Tjp3
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	UPFM0940428	ENSMUST00000150901.1	Cav1	ENSMUSG00000007655	caveolin 1, caveolae protein Source MGI Symbol Acc MGI 102709
A02	UPFM0706008	ENSMUST00000000058.6	Cav2	ENSMUSG00000000058	caveolin 2 Source MGI Symbol Acc MGI 107571
A03	UPFM0866159	ENSMUST00000075477.7	Cav3	ENSMUSG00000062694	caveolin 3 Source MGI Symbol Acc MGI 107570
A04	UPFM0883177	ENSMUST00000136580.1	Cdh1	ENSMUSG00000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
A05	UPFM0692742	ENSMUST00000025166.13	Cdh2	ENSMUSG00000024304	cadherin 2 Source MGI Symbol Acc MGI 88355
A06	UPFM0907296	ENSMUST00000023154.2	Cldn1	ENSMUSG00000022512	claudin 1 Source MGI Symbol Acc MGI 1276109
A07	UPFM0925008	ENSMUST00000100314.3	Cldn10	ENSMUSG00000022132	claudin 10 Source MGI Symbol Acc MGI 1913101
A08	UPFM0946148	ENSMUST00000046174.7	Cldn11	ENSMUSG00000037625	claudin 11 Source MGI Symbol Acc MGI 106925
A09	UPFM0831900	ENSMUST00000125110.1	Cldn12	ENSMUSG00000046798	claudin 12 Source MGI Symbol Acc MGI 1929288
A10	UPFM0819762	ENSMUST00000137163.1	Cldn14	ENSMUSG00000047109	claudin 14 Source MGI Symbol Acc MGI 1860425
A11	UPFM0626834	ENSMUST00000128391.1	Cldn15	ENSMUSG00000001739	claudin 15 Source MGI Symbol Acc MGI 1913103
A12	UPFM0794840	ENSMUST00000161053.7	Cldn16	ENSMUSG00000038148	claudin 16 Source MGI Symbol Acc MGI 2148742
B01	UPFM0805309	ENSMUST00000069549.2	Cldn17	ENSMUSG00000055811	claudin 17 Source MGI Symbol Acc MGI 2652030
B02	UPFM0921977	ENSMUST00000035048.11	Cldn18	ENSMUSG00000032473	claudin 18 Source MGI Symbol Acc MGI 1929209
B03	UPFM0951360	ENSMUST00000084309.11	Cldn19	ENSMUSG00000066058	claudin 19 Source MGI Symbol Acc MGI 3033992
B04	UPFM0999813	ENSMUST00000172779.1	Cldn2	ENSMUSG00000047230	claudin 2 Source MGI Symbol Acc MGI 1276110
B05	UPFM0781289	ENSMUST00000094245.3	Cldn3	ENSMUSG00000070473	claudin 3 Source MGI Symbol Acc MGI 1329044
B06	UPFM0830616	ENSMUST00000051401.3	Cldn4	ENSMUSG00000047501	claudin 4 Source MGI Symbol Acc MGI 1313314
B07	UPFM0856898	ENSMUST00000043577.2	Cldn5	ENSMUSG00000041378	claudin 5 Source MGI Symbol Acc MGI 1276112
B08	UPFM0925619	ENSMUST00000233364.1	Cldn6	ENSMUSG00000023906	claudin 6 Source MGI Symbol Acc MGI 1859284
B09	UPFM0989414	ENSMUST00000108597.7	Cldn7	ENSMUSG00000018569	claudin 7 Source MGI Symbol Acc MGI 1859285
B10	UPFM0661961	ENSMUST00000049697.4	Cldn8	ENSMUSG00000050520	claudin 8 Source MGI Symbol Acc MGI 1859286
B11	UPFM0858956	ENSMUST00000085989.7	Cldn9	ENSMUSG00000066720	claudin 9 Source MGI Symbol Acc MGI 1913100
B12	UPFM0847756	ENSMUST00000129395.7	Dll1	ENSMUSG00000014773	delta like canonical Notch ligand 1 Source MGI Symbol Acc MGI 104659
C01	UPFM0751809	ENSMUST00000224432.1	Dsc1	ENSMUSG00000044322	desmocollin 1 Source MGI Symbol Acc MGI 109173
C02	UPFM0853948	ENSMUST00000039247.10	Dsc2	ENSMUSG00000024331	desmocollin 2 Source MGI Symbol Acc MGI 103221
C03	UPFM0901963	ENSMUST00000223946.1	Dsc3	ENSMUSG00000059898	desmocollin 3 Source MGI Symbol Acc MGI 1194993
C04	UPFM0870996	ENSMUST00000077146.3	Dsg1a	ENSMUSG00000069441	desmoglein 1 alpha Source MGI Symbol Acc MGI 94930
C05	UPFM0955902	ENSMUST00000059787.14	Dsg2	ENSMUSG00000044393	desmoglein 2 Source MGI Symbol Acc MGI 1196466
C06	UPFM0980969	ENSMUST00000234945.1	Dsg3	ENSMUSG00000056632	desmoglein 3 Source MGI Symbol Acc MGI 99499
C07	UPFM0758634	ENSMUST00000019426.4	Dsg4	ENSMUSG00000001804	desmoglein 4 Source MGI Symbol Acc MGI 2661061
C08	UPFM0928542	ENSMUST00000124830.2	Dsp	ENSMUSG00000054889	desmoplakin Source MGI Symbol Acc MGI 109611
C09	UPFM0800887	ENSMUST00000183034.4	Dst	ENSMUSG00000026131	dystonin Source MGI Symbol Acc MGI 104627
C10	UPFM0882606	ENSMUST00000146860.7	Esam	ENSMUSG00000001946	endothelial cell-specific adhesion molecule Source MGI Symbol Acc MGI 1916774
	UPFM088158	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	3	043839.4	F11r	000038235	F11 receptor Source MGI Symbol Acc MGI 1321398
C12	UPFM0827145	ENSMUST00000068581.8	Gja1	ENSMUSG00000050953	gap junction protein, alpha 1 Source MGI Symbol Acc MGI 95713
D01	UPFM0871411	ENSMUST00000061614.7	Gja3	ENSMUSG00000048582	gap junction protein, alpha 3 Source MGI Symbol Acc MGI 95714
D02	UPFM0852640	ENSMUST00000053753.7	Gja4	ENSMUSG00000050234	gap junction protein, alpha 4 Source MGI Symbol Acc MGI 95715
D03	UPFM0875327	ENSMUST00000199597.1	Gja5	ENSMUSG00000057123	gap junction protein, alpha 5 Source MGI Symbol Acc MGI 95716
D04	UPFM0743839	ENSMUST00000062944.6	Gja8	ENSMUSG00000049908	gap junction protein, alpha 8 Source MGI Symbol Acc MGI 99953
D05	UPFM0630479	ENSMUST00000119190.1	Gjb1	ENSMUSG00000047797	gap junction protein, beta 1 Source MGI Symbol Acc MGI 95719
D06	UPFM0873250	ENSMUST00000055698.7	Gjb2	ENSMUSG00000046352	gap junction protein, beta 2 Source MGI Symbol Acc MGI 95720
D07	UPFM0641655	ENSMUST00000106091.8	Gjb3	ENSMUSG00000042367	gap junction protein, beta 3 Source MGI Symbol Acc MGI 95721
D08	UPFM0921181	ENSMUST00000106090.7	Gjb4	ENSMUSG00000046623	gap junction protein, beta 4 Source MGI Symbol Acc MGI 95722
D09	UPFM0846865	ENSMUST00000046498.2	Gjb5	ENSMUSG00000042357	gap junction protein, beta 5 Source MGI Symbol Acc MGI 95723
D10	UPFM0951987	ENSMUST00000039380.8	Gjb6	ENSMUSG00000040055	gap junction protein, beta 6 Source MGI Symbol Acc MGI 107588
D11	UPFM0908427	ENSMUST00000108793.8	Gjc2	ENSMUSG00000043448	gap junction protein, gamma 2 Source MGI Symbol Acc MGI 2153060
D12	UPFM0991931	ENSMUST00000090275.4	Gjd2	ENSMUSG00000068615	gap junction protein, delta 2 Source MGI Symbol Acc MGI 1334209
E01	UPFM0772212	ENSMUST00000020016.4	Gje1	ENSMUSG00000019867	gap junction protein, epsilon 1 Source MGI Symbol Acc MGI 1923993
E02	UPFM0843264	ENSMUST00000215003.1	Icam1	ENSMUSG00000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
E03	UPFM0647953	ENSMUST00000173795.1	Icam2	ENSMUSG00000001029	intercellular adhesion molecule 2 Source MGI Symbol Acc MGI 96394
E04	UPFM0900259	ENSMUST00000224493.1	Itga1	ENSMUSG00000042284	integrin alpha 1 Source MGI Symbol Acc MGI 96599
E05	UPFM0992888	ENSMUST00000224204.1	Itga2	ENSMUSG00000015533	integrin alpha 2 Source MGI Symbol Acc MGI 96600
E06	UPFM0765592	ENSMUST00000001548.13	Itga3	ENSMUSG00000001507	integrin alpha 3 Source MGI Symbol Acc MGI 96602
E07	UPFM0783200	ENSMUST00000099972.4	Itga4	ENSMUSG00000027009	integrin alpha 4 Source MGI Symbol Acc MGI 96603
E08	UPFM0788390	ENSMUST00000215331.1	Itga5	ENSMUSG00000000555	integrin alpha 5 (fibronectin receptor alpha) Source MGI Symbol Acc MGI 96604
E09	UPFM0745105	ENSMUST00000133124.7	Itga6	ENSMUSG00000027111	integrin alpha 6 Source MGI Symbol Acc MGI 96605
E10	UPFM0660400	ENSMUST00000099112.3	Itga7	ENSMUSG00000025348	integrin alpha 7 Source MGI Symbol Acc MGI 102700
E11	UPFM0982230	ENSMUST00000141477.7	Itga8	ENSMUSG00000026768	integrin alpha 8 Source MGI Symbol Acc MGI 109442
E12	UPFM0671996	ENSMUST00000149150.1	Itga9	ENSMUSG00000039115	integrin alpha 9 Source MGI Symbol Acc MGI 104756
F01	UPFM0791837	ENSMUST00000106306.8	Itgal	ENSMUSG00000030830	integrin alpha L Source MGI Symbol Acc MGI 96606
F02	UPFM0918338	ENSMUST00000156593.2	Itgam	ENSMUSG00000030786	integrin alpha M Source MGI Symbol Acc MGI 96607
F03	UPFM0855247	ENSMUST00000028499.10	Itgav	ENSMUSG00000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
F04	UPFM0934656	ENSMUST00000124826.1	Itgb1	ENSMUSG00000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
F05	UPFM0838414	ENSMUST00000156644.7	Itgb2	ENSMUSG00000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
F06	UPFM0799616	ENSMUST00000127140.2	Itgb3	ENSMUSG00000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
F07	UPFM0895530	ENSMUST00000151691.7	Itgb4	ENSMUSG00000020758	integrin beta 4 Source MGI Symbol Acc MGI 96613
F08	UPFM0851206	ENSMUST00000134262.7	Itgb5	ENSMUSG00000022817	integrin beta 5 Source MGI Symbol Acc MGI 96614
F09	UPFM0630108	ENSMUST00000154764.1	Itgb6	ENSMUSG00000026971	integrin beta 6 Source MGI Symbol Acc MGI 96615
F10	UPFM0983386	ENSMUST00000098407.2	Jam2	ENSMUSG00000053062	junction adhesion molecule 2 Source MGI Symbol Acc MGI 1933820

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0654632	ENSMUST00000215446.1	Jam3	ENSMUSG00000031990	junction adhesion molecule 3 Source MGI Symbol Acc MGI 1933825
F12	UPFM0803910	ENSMUST00000123903.1	Jup	ENSMUSG00000001552	junction plakoglobin Source MGI Symbol Acc MGI 96650
G01	UPFM0795987	ENSMUST00000126872.7	Notch1	ENSMUSG00000026923	notch 1 Source MGI Symbol Acc MGI 97363
G02	UPFM0935665	ENSMUST00000079812.7	Notch2	ENSMUSG00000027878	notch 2 Source MGI Symbol Acc MGI 97364
G03	UPFM0716399	ENSMUST00000236544.1	Notch3	ENSMUSG00000038146	notch 3 Source MGI Symbol Acc MGI 99460
G04	UPFM0722825	ENSMUST00000151654.7	Notch4	ENSMUSG00000015468	notch 4 Source MGI Symbol Acc MGI 107471
G05	UPFM0874861	ENSMUST00000069756.10	Ocln	ENSMUSG00000021638	occludin Source MGI Symbol Acc MGI 106183
G06	UPFM1006802	ENSMUST00000171562.7	Plec	ENSMUSG00000022565	plectin Source MGI Symbol Acc MGI 1277961
G07	UPFM0876484	ENSMUST00000216893.1	Nectin1	ENSMUSG00000032012	nectin cell adhesion molecule 1 Source MGI Symbol Acc MGI 1926483
G08	UPFM0823997	ENSMUST00000075447.13	Nectin2	ENSMUSG00000062300	nectin cell adhesion molecule 2 Source MGI Symbol Acc MGI 97822
G09	UPFM1009828	ENSMUST00000094325.4	Nectin4	ENSMUSG00000006411	nectin cell adhesion molecule 4 Source MGI Symbol Acc MGI 1918990
G10	UPFM0728422	ENSMUST00000102592.9	Tjp1	ENSMUSG00000030516	tight junction protein 1 Source MGI Symbol Acc MGI 98759
G11	UPFM0801382	ENSMUST00000233658.2	Tjp2	ENSMUSG00000024812	tight junction protein 2 Source MGI Symbol Acc MGI 1341872
G12	UPFM0774656	ENSMUST00000045744.6	Tjp3	ENSMUSG00000034917	tight junction protein 3 Source MGI Symbol Acc MGI 1351650
H01	UPFM1132946	ENSMUST00000163829.1	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM1126609	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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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