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

Mouse Cell Junction PathwayFinder

Cat. no. 249950 SBMM-213ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA 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 PCR System 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 PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0727943	ENSMUST00000115454.1	Cav1	ENSMUSG00000007655	caveolin 1, caveolae protein Source MGI Symbol Acc MGI 102709
A02	SBM0700536	ENSMUST00000115462.1	Cav2	ENSMUSG00000000058	caveolin 2 Source MGI Symbol Acc MGI 107571
A03	SBM1035433	ENSMUST00000075477.7	Cav3	ENSMUSG00000062694	caveolin 3 Source MGI Symbol Acc MGI 107570
A04	SBM0815100	ENSMUST00000136580.1	Cdh1	ENSMUSG00000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
A05	SBM0822940	ENSMUST00000025166.13	Cdh2	ENSMUSG00000024304	cadherin 2 Source MGI Symbol Acc MGI 88355
A06	SBM0759787	ENSMUST00000023154.2	Cldn1	ENSMUSG00000022512	claudin 1 Source MGI Symbol Acc MGI 1276109
A07	SBM0821396	ENSMUST00000071546.13	Cldn10	ENSMUSG00000022132	claudin 10 Source MGI Symbol Acc MGI 1913101
A08	SBM0807459	ENSMUST00000046174.7	Cldn11	ENSMUSG00000037625	claudin 11 Source MGI Symbol Acc MGI 106925
A09	SBM0906857	ENSMUST00000115446.7	Cldn12	ENSMUSG00000046798	claudin 12 Source MGI Symbol Acc MGI 1929288
A10	SBM0729770	ENSMUST00000137163.1	Cldn14	ENSMUSG00000047109	claudin 14 Source MGI Symbol Acc MGI 1860425
A11	SBM0733312	ENSMUST00000001790.5	Cldn15	ENSMUSG00000001739	claudin 15 Source MGI Symbol Acc MGI 1913103
A12	SBM1000305	ENSMUST00000161053.7	Cldn16	ENSMUSG00000038148	claudin 16 Source MGI Symbol Acc MGI 2148742
B01	SBM1036248	ENSMUST00000069549.2	Cldn17	ENSMUSG00000055811	claudin 17 Source MGI Symbol Acc MGI 2652030
B02	SBM0926903	ENSMUST00000136429.7	Cldn18	ENSMUSG00000032473	claudin 18 Source MGI Symbol Acc MGI 1929209
B03	SBM0704025	ENSMUST00000094823.3	Cldn19	ENSMUSG00000066058	claudin 19 Source MGI Symbol Acc MGI 3033992
B04	SBM0835590	ENSMUST00000054889.3	Cldn2	ENSMUSG00000047230	claudin 2 Source MGI Symbol Acc MGI 1276110
B05	SBM1002288	ENSMUST00000094245.3	Cldn3	ENSMUSG00000070473	claudin 3 Source MGI Symbol Acc MGI 1329044
B06	SBM0715143	ENSMUST00000051401.3	Cldn4	ENSMUSG00000047501	claudin 4 Source MGI Symbol Acc MGI 1313314
B07	SBM1063020	ENSMUST00000043577.2	Cldn5	ENSMUSG00000041378	claudin 5 Source MGI Symbol Acc MGI 1276112
B08	SBM1055283	ENSMUST00000024699.3	Cldn6	ENSMUSG00000023906	claudin 6 Source MGI Symbol Acc MGI 1859284
B09	SBM0724146	ENSMUST00000018713.12	Cldn7	ENSMUSG00000018569	claudin 7 Source MGI Symbol Acc MGI 1859285
B10	SBM0887355	ENSMUST00000049697.4	Cldn8	ENSMUSG00000050520	claudin 8 Source MGI Symbol Acc MGI 1859286
B11	SBM0859917	ENSMUST00000085989.7	Cldn9	ENSMUSG00000066720	claudin 9 Source MGI Symbol Acc MGI 1913100
B12	SBM0898031	ENSMUST00000124196.1	Dll1	ENSMUSG00000014773	delta like canonical Notch ligand 1 Source MGI Symbol Acc MGI 104659
C01	SBM1054166	ENSMUST00000224432.1	Dsc1	ENSMUSG00000044322	desmocollin 1 Source MGI Symbol Acc MGI 109173
C02	SBM0991235	ENSMUST00000128464.1	Dsc2	ENSMUSG00000024331	desmocollin 2 Source MGI Symbol Acc MGI 103221
C03	SBM0788245	ENSMUST00000225110.1	Dsc3	ENSMUSG00000059898	desmocollin 3 Source MGI Symbol Acc MGI 1194993
C04	SBM0807599	ENSMUST00000077146.3	Dsg1a	ENSMUSG00000069441	desmoglein 1 alpha Source MGI Symbol Acc MGI 94930
C05	SBM1024202	ENSMUST00000120102.7	Dsg2	ENSMUSG00000044393	desmoglein 2 Source MGI Symbol Acc MGI 1196466
C06	SBM0905376	ENSMUST00000070892.7	Dsg3	ENSMUSG00000056632	desmoglein 3 Source MGI Symbol Acc MGI 99499
C07	SBM0805297	ENSMUST00000019426.4	Dsg4	ENSMUSG00000001804	desmoglein 4 Source MGI Symbol Acc MGI 2661061
C08	SBM0781162	ENSMUST00000124830.2	Dsp	ENSMUSG00000054889	desmoplakin Source MGI Symbol Acc MGI 109611
C09	SBM0918512	ENSMUST00000183331.7	Dst	ENSMUSG00000026131	dystonin Source MGI Symbol Acc MGI 104627
C10	SBM0973528	ENSMUST00000146860.7	Esam	ENSMUSG00000001946	endothelial cell-specific adhesion molecule Source MGI Symbol Acc MGI 1916774
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1054242	043839.4	F11r	000038235	F11 receptor Source MGI Symbol Acc MGI 1321398
C12	SBM1033106	ENSMUST00000 218834.1	Gja1	ENSMUSG00 000050953	gap junction protein, alpha 1 Source MGI Symbol Acc MGI 95713
D01	SBM0773945	ENSMUST00000 061614.7	Gja3	ENSMUSG00 000048582	gap junction protein, alpha 3 Source MGI Symbol Acc MGI 95714
D02	SBM1065977	ENSMUST00000 053753.7	Gja4	ENSMUSG00 000050234	gap junction protein, alpha 4 Source MGI Symbol Acc MGI 95715
D03	SBM1062659	ENSMUST00000 132256.7	Gja5	ENSMUSG00 000057123	gap junction protein, alpha 5 Source MGI Symbol Acc MGI 95716
D04	SBM0787847	ENSMUST00000 062944.6	Gja8	ENSMUSG00 000049908	gap junction protein, alpha 8 Source MGI Symbol Acc MGI 99953
D05	SBM0842245	ENSMUST00000 119190.1	Gjb1	ENSMUSG00 000047797	gap junction protein, beta 1 Source MGI Symbol Acc MGI 95719
D06	SBM0688916	ENSMUST00000 055698.7	Gjb2	ENSMUSG00 000046352	gap junction protein, beta 2 Source MGI Symbol Acc MGI 95720
D07	SBM0959859	ENSMUST00000 046532.3	Gjb3	ENSMUSG00 000042367	gap junction protein, beta 3 Source MGI Symbol Acc MGI 95721
D08	SBM0743963	ENSMUST00000 060419.1	Gjb4	ENSMUSG00 000046623	gap junction protein, beta 4 Source MGI Symbol Acc MGI 95722
D09	SBM1049781	ENSMUST00000 046498.2	Gjb5	ENSMUSG00 000042357	gap junction protein, beta 5 Source MGI Symbol Acc MGI 95723
D10	SBM0879653	ENSMUST00000 039380.8	Gjb6	ENSMUSG00 000040055	gap junction protein, beta 6 Source MGI Symbol Acc MGI 107588
D11	SBM0682532	ENSMUST00000 108793.8	Gjc2	ENSMUSG00 000043448	gap junction protein, gamma 2 Source MGI Symbol Acc MGI 2153060
D12	SBM0679639	ENSMUST00000 090275.4	Gjd2	ENSMUSG00 000068615	gap junction protein, delta 2 Source MGI Symbol Acc MGI 1334209
E01	SBM0918698	ENSMUST00000 020016.4	Gje1	ENSMUSG00 000019867	gap junction protein, epsilon 1 Source MGI Symbol Acc MGI 1923993
E02	SBM0806584	ENSMUST00000 215003.1	Icam1	ENSMUSG00 000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
E03	SBM0795564	ENSMUST00000 106813.8	Icam2	ENSMUSG00 000001029	intercellular adhesion molecule 2 Source MGI Symbol Acc MGI 96394
E04	SBM0802692	ENSMUST00000 061673.8	Itga1	ENSMUSG00 000042284	integrin alpha 1 Source MGI Symbol Acc MGI 96599
E05	SBM1002416	ENSMUST00000 056117.9	Itga2	ENSMUSG00 000015533	integrin alpha 2 Source MGI Symbol Acc MGI 96600
E06	SBM0845438	ENSMUST00000 140342.1	Itga3	ENSMUSG00 000001507	integrin alpha 3 Source MGI Symbol Acc MGI 96602
E07	SBM0718988	ENSMUST00000 126312.1	Itga4	ENSMUSG00 000027009	integrin alpha 4 Source MGI Symbol Acc MGI 96603
E08	SBM0776835	ENSMUST00000 023128.7	Itga5	ENSMUSG00 000000555	integrin alpha 5 (fibronectin receptor alpha) Source MGI Symbol Acc MGI 96604
E09	SBM0759318	ENSMUST00000 028522.9	Itga6	ENSMUSG00 000027111	integrin alpha 6 Source MGI Symbol Acc MGI 96605
E10	SBM0943260	ENSMUST00000 218290.1	Itga7	ENSMUSG00 000025348	integrin alpha 7 Source MGI Symbol Acc MGI 102700
E11	SBM0841683	ENSMUST00000 141477.7	Itga8	ENSMUSG00 000026768	integrin alpha 8 Source MGI Symbol Acc MGI 109442
E12	SBM0984016	ENSMUST00000 149150.1	Itga9	ENSMUSG00 000039115	integrin alpha 9 Source MGI Symbol Acc MGI 104756
F01	SBM0900464	ENSMUST00000 120857.7	Itgal	ENSMUSG00 000030830	integrin alpha L Source MGI Symbol Acc MGI 96606
F02	SBM0730179	ENSMUST00000 156593.2	Itgam	ENSMUSG00 000030786	integrin alpha M Source MGI Symbol Acc MGI 96607
F03	SBM0710817	ENSMUST00000 151463.1	Itgav	ENSMUSG00 000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
F04	SBM0691612	ENSMUST00000 090006.11	Itgb1	ENSMUSG00 000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
F05	SBM0947975	ENSMUST00000 131023.7	Itgb2	ENSMUSG00 000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
F06	SBM0851696	ENSMUST00000 127140.2	Itgb3	ENSMUSG00 000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
F07	SBM0809070	ENSMUST00000 169928.7	Itgb4	ENSMUSG00 000020758	integrin beta 4 Source MGI Symbol Acc MGI 96613
F08	SBM0961760	ENSMUST00000 069345.5	Itgb5	ENSMUSG00 000022817	integrin beta 5 Source MGI Symbol Acc MGI 96614
F09	SBM0767121	ENSMUST00000 151035.7	Itgb6	ENSMUSG00 000026971	integrin beta 6 Source MGI Symbol Acc MGI 96615
F10	SBM0855510	ENSMUST00000 231910.1	Jam2	ENSMUSG00 000053062	junction adhesion molecule 2 Source MGI Symbol Acc MGI 1933820

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1014326	ENSMUST00000213682.1	Jam3	ENSMUSG00000031990	junction adhesion molecule 3 Source MGI Symbol Acc MGI 1933825
F12	SBM0815160	ENSMUST00000001592.14	Jup	ENSMUSG00000001552	junction plakoglobin Source MGI Symbol Acc MGI 96650
G01	SBM1060528	ENSMUST00000132820.1	Notch1	ENSMUSG00000026923	notch 1 Source MGI Symbol Acc MGI 97363
G02	SBM0724048	ENSMUST00000079812.7	Notch2	ENSMUSG00000027878	notch 2 Source MGI Symbol Acc MGI 97364
G03	SBM0987360	ENSMUST00000087723.4	Notch3	ENSMUSG00000038146	notch 3 Source MGI Symbol Acc MGI 99460
G04	SBM0822219	ENSMUST00000174707.1	Notch4	ENSMUSG00000015468	notch 4 Source MGI Symbol Acc MGI 107471
G05	SBM1083398	ENSMUST00000159515.1	Ocln	ENSMUSG00000021638	occludin Source MGI Symbol Acc MGI 106183
G06	SBM1053570	ENSMUST00000167754.7	Plec	ENSMUSG00000022565	plectin Source MGI Symbol Acc MGI 1277961
G07	SBM0922696	ENSMUST00000216893.1	Nectin1	ENSMUSG00000032012	nectin cell adhesion molecule 1 Source MGI Symbol Acc MGI 1926483
G08	SBM0714883	ENSMUST00000075447.13	Nectin2	ENSMUSG00000062300	nectin cell adhesion molecule 2 Source MGI Symbol Acc MGI 97822
G09	SBM0986097	ENSMUST00000006578.9	Nectin4	ENSMUSG00000006411	nectin cell adhesion molecule 4 Source MGI Symbol Acc MGI 1918990
G10	SBM0797397	ENSMUST00000144961.1	Tjp1	ENSMUSG00000030516	tight junction protein 1 Source MGI Symbol Acc MGI 98759
G11	SBM0690219	ENSMUST00000099558.4	Tjp2	ENSMUSG00000024812	tight junction protein 2 Source MGI Symbol Acc MGI 1341872
G12	SBM0683741	ENSMUST00000219479.1	Tjp3	ENSMUSG00000034917	tight junction protein 3 Source MGI Symbol Acc MGI 1351650
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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