

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

Rat Cell Junction PathwayFinder

Cat. no. 249950 SBRN-213ZA

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 (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Cdh5	Cldn1	Cldn10	Cldn11	Cldn12	Cldn14	Cldn15
B	Cldn16	Cldn17	Cldn18	Cldn19	Cldn2	Cldn3	Cldn4	Cldn5	Cldn6	Cldn7	Cldn8	Cldn9
C	Dll1	Dsc1	Dsc2	Dsc3	Dsg1	Dsg3	Dsg4	Dsp	Dst	Esam	F11r	Gja1
D	Gja3	Gja4	Gja5	Gja8	Gjb1	Gjb2	Gjb3	Gjb4	Gjb5	Gjb6	Gjc2	Gjc3
E	Gjd2	Icam1	Icam2	Itga1	Itga2	Itga3	Itga4	Itga5	Itga6	Itga7	Itga8	Itga1
F	Itgad	Itgav	Itgax	Itgb1	Itgb2	Itgb3	Itgb4	Itgb5	Itgb6	Jam3	Jup	Notch1
G	Notch2	Notch3	Notch4	Ocln	Epcam	Plec	Nectin1	Nectin2	Nectin3	Tjp1	Tjp2	Tjp3
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBR1108638	ENSRNOT00000078250.1	Cav1	ENSRNOG0000056836	caveolin 1 Source RGD Symbol Acc 2280
A02	SBR1201369	ENSRNOT00000080271.1	Cav2	ENSRNOG0000057713	caveolin 2 Source RGD Symbol Acc 620348
A03	SBR1199258	ENSRNOT00000007601.4	Cav3	ENSRNOG0000005798	caveolin 3 Source RGD Symbol Acc 2281
A04	SBR1170192	ENSRNOT00000027346.2	Cdh1	ENSRNOG0000020151	cadherin 1 Source RGD Symbol Acc 69279
A05	SBR1148414	ENSRNOT00000021170.6	Cdh2	ENSRNOG0000015602	cadherin 2 Source RGD Symbol Acc 69280
A06	SBR1122090	ENSRNOT00000017983.6	Cdh5	ENSRNOG0000013324	cadherin 5 Source RGD Symbol Acc 1307370
A07	SBR1165025	ENSRNOT00000002640.5	Cldn1	ENSRNOG0000001926	claudin 1 Source RGD Symbol Acc 68422
A08	SBR1211110	ENSRNOT00000093403.1	Cldn10	ENSRNOG0000010085	claudin 10 Source RGD Symbol Acc 1308027
A09	SBR1119694	ENSRNOT00000014359.5	Cldn11	ENSRNOG0000010263	claudin 11 Source RGD Symbol Acc 71081
A10	SBR1103962	ENSRNOT00000061199.2	Cldn12	ENSRNOG0000039862	claudin 12 Source RGD Symbol Acc 1561053
A11	SBR1143244	ENSRNOT00000002297.3	Cldn14	ENSRNOG0000001691	claudin 14 Source RGD Symbol Acc 1309165
A12	SBR1211778	ENSRNOT00000001923.7	Cldn15	ENSRNOG0000001419	claudin 15 Source RGD Symbol Acc 1310678
B01	SBR1173748	ENSRNOT00000083319.1	Cldn16	ENSRNOG0000055138	claudin 16 Source RGD Symbol Acc 620322
B02	SBR1116626	ENSRNOT00000032663.2	Cldn17	ENSRNOG00000027691	claudin 17 Source RGD Symbol Acc 1307462
B03	SBR1174618	ENSRNOT00000052043.4	Cldn18	ENSRNOG0000030386	claudin 18 Source RGD Symbol Acc 1359696
B04	SBR1137349	ENSRNOT00000047151.2	Cldn19	ENSRNOG0000007922	claudin 19 Source RGD Symbol Acc 1305000
B05	SBR1185482	ENSRNOT00000085078.1	Cldn2	ENSRNOG0000054495	claudin 2 Source RGD Symbol Acc 1560247
B06	SBR1152588	ENSRNOT00000075280.2	Cldn3	ENSRNOG0000046007	claudin 3 Source RGD Symbol Acc 68425
B07	SBR1196299	ENSRNOT00000002003.4	Cldn4	ENSRNOG0000001476	claudin 4 Source RGD Symbol Acc 1307932
B08	SBR1108592	ENSRNOT00000071806.2	Cldn5	ENSRNOG0000045811	claudin 5 Source RGD Symbol Acc 68431
B09	SBR1161214	ENSRNOT00000004845.4	Cldn6	ENSRNOG0000003648	claudin 6 Source RGD Symbol Acc 1308837
B10	SBR1194006	ENSRNOT00000079237.1	Cldn7	ENSRNOG0000017325	claudin 7 Source RGD Symbol Acc 68432
B11	SBR1119003	ENSRNOT00000002138.5	Cldn8	ENSRNOG0000001571	claudin 8 Source RGD Symbol Acc 1308575
B12	SBR1203677	ENSRNOT00000004848.3	Cldn9	ENSRNOG0000003654	claudin 9 Source RGD Symbol Acc 1308999
C01	SBR1168167	ENSRNOT00000080429.1	Dll1	ENSRNOG0000059984	delta like canonical Notch ligand 1 Source RGD Symbol Acc 70949
C02	SBR1161171	ENSRNOT00000078207.1	Dsc1	ENSRNOG0000056258	desmocollin 1 Source RGD Symbol Acc 1310768
C03	SBR1154049	ENSRNOT00000082891.1	Dsc2	ENSRNOG0000039969	desmocollin 2 Source RGD Symbol Acc 1309426
C04	SBR1100564	ENSRNOT00000077304.1	Dsc3	ENSRNOG0000017159	desmocollin 3 Source RGD Symbol Acc 1311782
C05	SBR1165006	ENSRNOT00000061344.4	Dsg1	ENSRNOG0000016853	desmoglein 1 Source RGD Symbol Acc 1309925
C06	SBR1118739	ENSRNOT00000022584.4	Dsg3	ENSRNOG0000016632	desmoglein 3 Source RGD Symbol Acc 1592103
C07	SBR1193801	ENSRNOT00000038450.2	Dsg4	ENSRNOG0000022364	desmoglein 4 Source RGD Symbol Acc 735015
C08	SBR1121361	ENSRNOT00000018649.6	Dsp	ENSRNOG0000013928	desmoplakin Source RGD Symbol Acc 1305794
C09	SBR1174076	ENSRNOT00000044452.6	Dst	ENSRNOG0000012207	dystonin Source RGD Symbol Acc 1306566
C10	SBR1173462	ENSRNOT00000083778.1	Esam	ENSRNOG0000033217	endothelial cell adhesion molecule Source RGD Symbol Acc 1303286
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1115759	006141.5	F11r	000004414	F11 receptor Source RGD Symbol Acc 621842
C12	SBR1181138	ENSRNOT0000001054.4	Gja1	ENSRNOG0000000805	gap junction protein, alpha 1 Source RGD Symbol Acc 2690
D01	SBR1096725	ENSRNOT00000011699.4	Gja3	ENSRNOG0000008847	gap junction protein, alpha 3 Source RGD Symbol Acc 621820
D02	SBR1170304	ENSRNOT00000019246.5	Gja4	ENSRNOG0000014357	gap junction protein, alpha 4 Source RGD Symbol Acc 2691
D03	SBR1158584	ENSRNOT00000023488.6	Gja5	ENSRNOG0000017484	gap junction protein, alpha 5 Source RGD Symbol Acc 2692
D04	SBR1174058	ENSRNOT00000071622.2	Gja8	ENSRNOG0000046703	gap junction protein, alpha 8 Source RGD Symbol Acc 628890
D05	SBR1173856	ENSRNOT00000076816.1	Gjb1	ENSRNOG0000003746	gap junction protein, beta 1 Source RGD Symbol Acc 61926
D06	SBR1144075	ENSRNOT00000011711.4	Gjb2	ENSRNOG0000008855	gap junction protein, beta 2 Source RGD Symbol Acc 728891
D07	SBR1209275	ENSRNOT00000019266.2	Gjb3	ENSRNOG0000014372	gap junction protein, beta 3 Source RGD Symbol Acc 2695
D08	SBR1145423	ENSRNOT00000037128.3	Gjb4	ENSRNOG0000026910	gap junction protein, beta 4 Source RGD Symbol Acc 621829
D09	SBR1180064	ENSRNOT00000081919.1	Gjb5	ENSRNOG0000059897	gap junction protein, beta 5 Source RGD Symbol Acc 2696
D10	SBR1124941	ENSRNOT00000011742.3	Gjb6	ENSRNOG0000022116	gap junction protein, beta 6 Source RGD Symbol Acc 621830
D11	SBR1190715	ENSRNOT00000058362.3	Gjc2	ENSRNOG0000038328	gap junction protein, gamma 2 Source RGD Symbol Acc 1562712
D12	SBR1206613	ENSRNOT0000001797.4	Gjc3	ENSRNOG0000001329	gap junction protein, gamma 3 Source RGD Symbol Acc 727930
E01	SBR1123448	ENSRNOT00000011078.3	Gjd2	ENSRNOG0000008337	gap junction protein, delta 2 Source RGD Symbol Acc 2694
E02	SBR1152534	ENSRNOT00000028066.5	Icam1	ENSRNOG0000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
E03	SBR1171048	ENSRNOT00000035474.3	Icam2	ENSRNOG0000025143	intercellular adhesion molecule 2 Source RGD Symbol Acc 1359660
E04	SBR1162885	ENSRNOT00000086114.1	Itga1	ENSRNOG0000053550	integrin subunit alpha 1 Source RGD Symbol Acc 2923
E05	SBR1203459	ENSRNOT00000077401.1	Itga2	ENSRNOG0000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
E06	SBR1140121	ENSRNOT00000035894.7	Itga3	ENSRNOG0000004276	integrin subunit alpha 3 Source RGD Symbol Acc 1310333
E07	SBR1153753	ENSRNOT00000006880.6	Itga4	ENSRNOG0000004861	integrin subunit alpha 4 Source RGD Symbol Acc 1593249
E08	SBR1211134	ENSRNOT00000087748.1	Itga5	ENSRNOG0000057451	integrin subunit alpha 5 Source RGD Symbol Acc 2925
E09	SBR1106472	ENSRNOT00000002075.4	Itga6	ENSRNOG0000001518	integrin subunit alpha 6 Source RGD Symbol Acc 621633
E10	SBR1134246	ENSRNOT00000030453.6	Itga7	ENSRNOG0000007905	integrin subunit alpha 7 Source RGD Symbol Acc 71022
E11	SBR1115234	ENSRNOT00000022711.4	Itga8	ENSRNOG0000016538	integrin subunit alpha 8 Source RGD Symbol Acc 621634
E12	SBR1127655	ENSRNOT00000024404.6	ItgaL	ENSRNOG0000017980	integrin subunit alpha L Source RGD Symbol Acc 631424
F01	SBR1114389	ENSRNOT00000086003.1	Itgad	ENSRNOG0000019728	integrin subunit alpha M Source RGD Symbol Acc 2926
F02	SBR1162857	ENSRNOT00000006961.7	Itgav	ENSRNOG0000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
F03	SBR1156619	ENSRNOT00000054983.4	Itgax	ENSRNOG0000036703	integrin subunit alpha X Source RGD Symbol Acc 1561123
F04	SBR1105686	ENSRNOT00000014785.5	Itgb1	ENSRNOG0000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
F05	SBR1182978	ENSRNOT00000001639.6	Itgb2	ENSRNOG0000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
F06	SBR1124401	ENSRNOT00000073350.2	Itgb3	ENSRNOG0000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
F07	SBR1171569	ENSRNOT00000086747.1	Itgb4	ENSRNOG0000005580	integrin subunit beta 4 Source RGD Symbol Acc 2928
F08	SBR1156192	ENSRNOT00000076955.2	Itgb5	ENSRNOG0000001795	integrin subunit beta 5 Source RGD Symbol Acc 628869
F09	SBR1162472	ENSRNOT00000086576.1	Itgb6	ENSRNOG0000008346	integrin subunit beta 6 Source RGD Symbol Acc 1303119
F10	SBR1179697	ENSRNOT00000012247.4	Jam3	ENSRNOG0000009149	junctional adhesion molecule 3 Source RGD Symbol Acc 1303248

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1193534	ENSRNOT00000040845.2	Jup	ENSRNOG0000015380	junction plakoglobin Source RGD Symbol Acc 620412
F12	SBR1183596	ENSRNOT00000026212.7	Notch1	ENSRNOG0000019322	notch 1 Source RGD Symbol Acc 3187
G01	SBR1107240	ENSRNOT00000025718.4	Notch2	ENSRNOG0000018835	notch 2 Source RGD Symbol Acc 3188
G02	SBR1195114	ENSRNOT00000037456.4	Notch3	ENSRNOG0000004346	notch 3 Source RGD Symbol Acc 620761
G03	SBR1192212	ENSRNOT00000000513.4	Notch4	ENSRNOG0000000442	notch 4 Source RGD Symbol Acc 1303282
G04	SBR1197094	ENSRNOT00000084667.1	Ocln	ENSRNOG0000018297	occludin Source RGD Symbol Acc 620089
G05	SBR1103276	ENSRNOT00000021135.6	Epcam	ENSRNOG0000015667	epithelial cell adhesion molecule Source RGD Symbol Acc 621365
G06	SBR1142831	ENSRNOT00000082271.1	Plec	ENSRNOG0000023781	plectin Source RGD Symbol Acc 621649
G07	SBR1114807	ENSRNOT00000008614.7	Nectin1	ENSRNOG0000006403	nectin cell adhesion molecule 1 Source RGD Symbol Acc 620791
G08	SBR1135089	ENSRNOT00000025388.6	Nectin2	ENSRNOG0000018730	nectin cell adhesion molecule 2 Source RGD Symbol Acc 1309505
G09	SBR1116386	ENSRNOT00000002957.5	Nectin3	ENSRNOG0000002176	nectin cell adhesion molecule 3 Source RGD Symbol Acc 1309516
G10	SBR1153932	ENSRNOT00000014988.7	Tjp1	ENSRNOG0000011077	tight junction protein 1 Source RGD Symbol Acc 1306305
G11	SBR1160358	ENSRNOT00000065921.3	Tjp2	ENSRNOG0000015030	tight junction protein 2 Source RGD Symbol Acc 619807
G12	SBR1157906	ENSRNOT00000089004.1	Tjp3	ENSRNOG0000020501	tight junction protein 3 Source RGD Symbol Acc 1309247
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	SBR1218555	Sybr_RGDC	RGDC	Sybr_RGDC	Rat 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.