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

Rat Cell Junction PathwayFinder

Cat. no. 249955 UPRN-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	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	Itgal
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 Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFR1012931	ENSRNOT00000078250.1	Cav1	ENSRNOG00000056836	caveolin 1 Source RGD Symbol Acc 2280
A02	UPFR1045353	ENSRNOT00000080271.1	Cav2	ENSRNOG00000057713	caveolin 2 Source RGD Symbol Acc 620348
A03	UPFR1043780	ENSRNOT00000007601.4	Cav3	ENSRNOG00000005798	caveolin 3 Source RGD Symbol Acc 2281
A04	UPFR1037315	ENSRNOT00000027346.2	Cdh1	ENSRNOG00000020151	cadherin 1 Source RGD Symbol Acc 69279
A05	UPFR1054833	ENSRNOT00000021170.6	Cdh2	ENSRNOG00000015602	cadherin 2 Source RGD Symbol Acc 69280
A06	UPFR1038288	ENSRNOT00000017983.6	Cdh5	ENSRNOG00000013324	cadherin 5 Source RGD Symbol Acc 1307370
A07	UPFR1026926	ENSRNOT00000002640.5	Cldn1	ENSRNOG00000001926	claudin 1 Source RGD Symbol Acc 68422
A08	UPFR1045278	ENSRNOT00000083269.2	Cldn10	ENSRNOG00000010085	claudin 10 Source RGD Symbol Acc 1308027
A09	UPFR1083965	ENSRNOT00000014359.5	Cldn11	ENSRNOG00000010263	claudin 11 Source RGD Symbol Acc 71081
A10	UPFR1013752	ENSRNOT00000061199.2	Cldn12	ENSRNOG00000039862	claudin 12 Source RGD Symbol Acc 1561053
A11	UPFR1045669	ENSRNOT00000002297.3	Cldn14	ENSRNOG00000001691	claudin 14 Source RGD Symbol Acc 1309165
A12	UPFR1101195	ENSRNOT00000001923.7	Cldn15	ENSRNOG00000001419	claudin 15 Source RGD Symbol Acc 1310678
B01	UPFR1102415	ENSRNOT00000083319.1	Cldn16	ENSRNOG00000055138	claudin 16 Source RGD Symbol Acc 620322
B02	UPFR1052570	ENSRNOT00000032663.2	Cldn17	ENSRNOG00000027691	claudin 17 Source RGD Symbol Acc 1307462
B03	UPFR1047712	ENSRNOT00000052043.4	Cldn18	ENSRNOG00000030386	claudin 18 Source RGD Symbol Acc 1359696
B04	UPFR1092796	ENSRNOT00000047151.2	Cldn19	ENSRNOG00000007922	claudin 19 Source RGD Symbol Acc 1305000
B05	UPFR1025125	ENSRNOT00000085078.1	Cldn2	ENSRNOG00000054495	claudin 2 Source RGD Symbol Acc 1560247
B06	UPFR1030875	ENSRNOT00000075280.2	Cldn3	ENSRNOG00000046007	claudin 3 Source RGD Symbol Acc 68425
B07	UPFR1100674	ENSRNOT00000002003.4	Cldn4	ENSRNOG00000001476	claudin 4 Source RGD Symbol Acc 1307932
B08	UPFR1112700	ENSRNOT00000071806.2	Cldn5	ENSRNOG00000045811	claudin 5 Source RGD Symbol Acc 68431
B09	UPFR1053015	ENSRNOT00000004845.4	Cldn6	ENSRNOG00000003648	claudin 6 Source RGD Symbol Acc 1308837
B10	UPFR1052768	ENSRNOT00000079237.1	Cldn7	ENSRNOG00000017325	claudin 7 Source RGD Symbol Acc 68432
B11	UPFR1043069	ENSRNOT00000002138.5	Cldn8	ENSRNOG00000001571	claudin 8 Source RGD Symbol Acc 1308575
B12	UPFR1072189	ENSRNOT00000004848.3	Cldn9	ENSRNOG00000003654	claudin 9 Source RGD Symbol Acc 1308999
C01	UPFR1058929	ENSRNOT00000080429.1	Dll1	ENSRNOG00000059984	delta like canonical Notch ligand 1 Source RGD Symbol Acc 70949
C02	UPFR1026831	ENSRNOT00000078207.1	Dsc1	ENSRNOG00000056258	desmocollin 1 Source RGD Symbol Acc 1310768
C03	UPFR1021733	ENSRNOT00000082891.1	Dsc2	ENSRNOG00000039969	desmocollin 2 Source RGD Symbol Acc 1309426
C04	UPFR1097574	ENSRNOT00000077304.1	Dsc3	ENSRNOG00000017159	desmocollin 3 Source RGD Symbol Acc 1311782
C05	UPFR1074551	ENSRNOT00000061344.4	Dsg1	ENSRNOG00000016853	desmoglein 1 Source RGD Symbol Acc 1309925
C06	UPFR1098066	ENSRNOT00000022584.4	Dsg3	ENSRNOG00000016632	desmoglein 3 Source RGD Symbol Acc 1592103
C07	UPFR1031417	ENSRNOT00000038450.2	Dsg4	ENSRNOG00000022364	desmoglein 4 Source RGD Symbol Acc 735015
C08	UPFR1093849	ENSRNOT00000018649.6	Dsp	ENSRNOG00000013928	desmoplakin Source RGD Symbol Acc 1305794
C09	UPFR1063771	ENSRNOT00000044452.6	Dst	ENSRNOG00000012207	dystonin Source RGD Symbol Acc 1306566
C10	UPFR1106503	ENSRNOT00000083778.1	Esam	ENSRNOG00000033217	endothelial cell adhesion molecule Source RGD Symbol Acc 1303286
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1091423	006141.5	F11r	000004414	F11 receptor Source RGD Symbol Acc 621842
C12	UPFR1122020	ENSRNOT00000001054.4	Gja1	ENSRNOG00000000805	gap junction protein, alpha 1 Source RGD Symbol Acc 2690
D01	UPFR1121417	ENSRNOT00000011699.4	Gja3	ENSRNOG00000008847	gap junction protein, alpha 3 Source RGD Symbol Acc 621820
D02	UPFR1042041	ENSRNOT00000019246.5	Gja4	ENSRNOG00000014357	gap junction protein, alpha 4 Source RGD Symbol Acc 2691
D03	UPFR1045827	ENSRNOT00000023488.6	Gja5	ENSRNOG00000017484	gap junction protein, alpha 5 Source RGD Symbol Acc 2692
D04	UPFR1120792	ENSRNOT00000071622.2	Gja8	ENSRNOG00000046703	gap junction protein, alpha 8 Source RGD Symbol Acc 628890
D05	UPFR1047097	ENSRNOT00000076816.1	Gjb1	ENSRNOG00000003746	gap junction protein, beta 1 Source RGD Symbol Acc 61926
D06	UPFR1076817	ENSRNOT00000011711.4	Gjb2	ENSRNOG00000008855	gap junction protein, beta 2 Source RGD Symbol Acc 728891
D07	UPFR1069108	ENSRNOT00000019266.2	Gjb3	ENSRNOG00000014372	gap junction protein, beta 3 Source RGD Symbol Acc 2695
D08	UPFR1017691	ENSRNOT00000037128.3	Gjb4	ENSRNOG00000026910	gap junction protein, beta 4 Source RGD Symbol Acc 621829
D09	UPFR1047539	ENSRNOT00000081919.1	Gjb5	ENSRNOG00000059897	gap junction protein, beta 5 Source RGD Symbol Acc 2696
D10	UPFR1085144	ENSRNOT00000011742.3	Gjb6	ENSRNOG00000022116	gap junction protein, beta 6 Source RGD Symbol Acc 621830
D11	UPFR1119668	ENSRNOT00000058362.3	Gjc2	ENSRNOG00000038328	gap junction protein, gamma 2 Source RGD Symbol Acc 1562712
D12	UPFR1105739	ENSRNOT00000001797.4	Gjc3	ENSRNOG00000001329	gap junction protein, gamma 3 Source RGD Symbol Acc 727930
E01	UPFR1067682	ENSRNOT00000011078.3	Gjd2	ENSRNOG00000008337	gap junction protein, delta 2 Source RGD Symbol Acc 2694
E02	UPFR1031281	ENSRNOT00000028066.5	Icam1	ENSRNOG00000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
E03	UPFR1033031	ENSRNOT00000035474.3	Icam2	ENSRNOG00000025143	intercellular adhesion molecule 2 Source RGD Symbol Acc 1359660
E04	UPFR1017832	ENSRNOT00000086114.1	Itga1	ENSRNOG00000053550	integrin subunit alpha 1 Source RGD Symbol Acc 2923
E05	UPFR1068108	ENSRNOT00000077401.1	Itga2	ENSRNOG00000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
E06	UPFR1093170	ENSRNOT00000005644.6	Itga3	ENSRNOG00000004276	integrin subunit alpha 3 Source RGD Symbol Acc 1310333
E07	UPFR1097667	ENSRNOT00000006880.6	Itga4	ENSRNOG00000004861	integrin subunit alpha 4 Source RGD Symbol Acc 1593249
E08	UPFR1023329	ENSRNOT00000087748.1	Itga5	ENSRNOG00000057451	integrin subunit alpha 5 Source RGD Symbol Acc 2925
E09	UPFR1020634	ENSRNOT00000002075.4	Itga6	ENSRNOG00000001518	integrin subunit alpha 6 Source RGD Symbol Acc 621633
E10	UPFR1020625	ENSRNOT00000030453.6	Itga7	ENSRNOG00000007905	integrin subunit alpha 7 Source RGD Symbol Acc 71022
E11	UPFR1041744	ENSRNOT00000022711.4	Itga8	ENSRNOG00000016538	integrin subunit alpha 8 Source RGD Symbol Acc 621634
E12	UPFR1057182	ENSRNOT00000024404.6	Itgal	ENSRNOG00000017980	integrin subunit alpha L Source RGD Symbol Acc 631424
F01	UPFR1089159	ENSRNOT00000026748.4	Itgad	ENSRNOG00000019728	integrin subunit alpha M Source RGD Symbol Acc 2926
F02	UPFR1097241	ENSRNOT00000006961.7	Itgav	ENSRNOG00000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
F03	UPFR1013587	ENSRNOT00000054983.4	Itgax	ENSRNOG00000036703	integrin subunit alpha X Source RGD Symbol Acc 1561123
F04	UPFR1091655	ENSRNOT00000014785.5	Itgb1	ENSRNOG00000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
F05	UPFR1033837	ENSRNOT00000001639.6	Itgb2	ENSRNOG00000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
F06	UPFR1016531	ENSRNOT00000073350.2	Itgb3	ENSRNOG00000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
F07	UPFR1035313	ENSRNOT00000065339.2	Itgb4	ENSRNOG00000005580	integrin subunit beta 4 Source RGD Symbol Acc 2928
F08	UPFR1088952	ENSRNOT00000076955.2	Itgb5	ENSRNOG00000001795	integrin subunit beta 5 Source RGD Symbol Acc 628869
F09	UPFR1069796	ENSRNOT00000011030.4	Itgb6	ENSRNOG00000008346	integrin subunit beta 6 Source RGD Symbol Acc 1303119
F10	UPFR1094033	ENSRNOT00000012247.4	Jam3	ENSRNOG00000009149	junctional adhesion molecule 3 Source RGD Symbol Acc 1303248

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1108217	ENSRNOT00000089933.1	Jup	ENSRNOG00000015380	junction plakoglobin Source RGD Symbol Acc 620412
F12	UPFR1044597	ENSRNOT00000026212.7	Notch1	ENSRNOG00000019322	notch 1 Source RGD Symbol Acc 3187
G01	UPFR1064592	ENSRNOT00000025718.4	Notch2	ENSRNOG00000018835	notch 2 Source RGD Symbol Acc 3188
G02	UPFR1027756	ENSRNOT00000037456.4	Notch3	ENSRNOG00000004346	notch 3 Source RGD Symbol Acc 620761
G03	UPFR1111007	ENSRNOT00000000513.4	Notch4	ENSRNOG00000000442	notch 4 Source RGD Symbol Acc 1303282
G04	UPFR1027887	ENSRNOT00000084667.1	Ocln	ENSRNOG00000018297	occludin Source RGD Symbol Acc 620089
G05	UPFR1120200	ENSRNOT00000021135.6	Epcam	ENSRNOG00000015667	epithelial cell adhesion molecule Source RGD Symbol Acc 621365
G06	UPFR1038182	ENSRNOT00000040762.6	Plec	ENSRNOG00000023781	plectin Source RGD Symbol Acc 621649
G07	UPFR1033998	ENSRNOT00000008614.7	Nectin1	ENSRNOG00000006403	nectin cell adhesion molecule 1 Source RGD Symbol Acc 620791
G08	UPFR1060484	ENSRNOT00000025388.6	Nectin2	ENSRNOG00000018730	nectin cell adhesion molecule 2 Source RGD Symbol Acc 1309505
G09	UPFR1120777	ENSRNOT00000002957.5	Nectin3	ENSRNOG00000002176	nectin cell adhesion molecule 3 Source RGD Symbol Acc 1309516
G10	UPFR1053688	ENSRNOT00000014988.7	Tjp1	ENSRNOG00000011077	tight junction protein 1 Source RGD Symbol Acc 1306305
G11	UPFR1033687	ENSRNOT00000065921.3	Tjp2	ENSRNOG00000015030	tight junction protein 2 Source RGD Symbol Acc 619807
G12	UPFR1073915	ENSRNOT00000089004.1	Tjp3	ENSRNOG00000020501	tight junction protein 3 Source RGD Symbol Acc 1309247
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG00000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG00000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG00000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG00000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	UPFR1126610	UPL_RGDC	RGDC	UPL_RGDC	Rat 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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