

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

Human Cell Junction PathwayFinder

Cat. no. 249955 UPHS-213ZR

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	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	DSG1	DSG2	DSG3	DSG4	DSP	DST	ESAM	F11R	GJA1
D	GJA3	GJA4	GJA5	GJA8	GJB1	GJB2	GJB3	GJB4	GJB5	GJB6	GJC2	GJD2
E	GJC3	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	NECTIN3	TJP1	TJP2	TJP3
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFH0192343	ENST00000393468.1	CAV1	ENSG00000105974	caveolin 1 Source HGNC Symbol Acc HGNC 1527
A02	UPFH1132285	ENST00000222693.5	CAV2	ENSG00000105971	caveolin 2 Source HGNC Symbol Acc HGNC 1528
A03	UPFH0013779	ENST00000397368.2	CAV3	ENSG00000182533	caveolin 3 Source HGNC Symbol Acc HGNC 1529
A04	UPFH1132791	ENST00000261769.10	CDH1	ENSG00000039068	cadherin 1 Source HGNC Symbol Acc HGNC 1748
A05	UPFH1132792	ENST00000399380.7	CDH2	ENSG00000170558	cadherin 2 Source HGNC Symbol Acc HGNC 1759
A06	UPFH0397114	ENST00000490800.1	CLDN1	ENSG00000163347	claudin 1 Source HGNC Symbol Acc HGNC 2032
A07	UPFH0173767	ENST00000299339.3	CLDN10	ENSG00000134873	claudin 10 Source HGNC Symbol Acc HGNC 2033
A08	UPFH0093496	ENST00000468358.5	CLDN11	ENSG00000013297	claudin 11 Source HGNC Symbol Acc HGNC 8514
A09	UPFH0123547	ENST00000427904.1	CLDN12	ENSG00000157224	claudin 12 Source HGNC Symbol Acc HGNC 2034
A10	UPFH0104304	ENST00000342108.2	CLDN14	ENSG00000159261	claudin 14 Source HGNC Symbol Acc HGNC 2035
A11	UPFH0099812	ENST00000401528.5	CLDN15	ENSG00000106404	claudin 15 Source HGNC Symbol Acc HGNC 2036
A12	UPFH0074228	ENST00000456423.1	CLDN16	ENSG00000113946	claudin 16 Source HGNC Symbol Acc HGNC 2037
B01	UPFH0002852	ENST00000286808.4	CLDN17	ENSG00000156282	claudin 17 Source HGNC Symbol Acc HGNC 2038
B02	UPFH0044848	ENST00000343735.8	CLDN18	ENSG00000066405	claudin 18 Source HGNC Symbol Acc HGNC 2039
B03	UPFH0068114	ENST00000296387.5	CLDN19	ENSG00000164007	claudin 19 Source HGNC Symbol Acc HGNC 2040
B04	UPFH0009167	ENST00000336803.1	CLDN2	ENSG00000165376	claudin 2 Source HGNC Symbol Acc HGNC 2041
B05	UPFH0137950	ENST00000395145.3	CLDN3	ENSG00000165215	claudin 3 Source HGNC Symbol Acc HGNC 2045
B06	UPFH0398073	ENST00000431918.1	CLDN4	ENSG00000189143	claudin 4 Source HGNC Symbol Acc HGNC 2046
B07	UPFH0032444	ENST00000618236.1	CLDN5	ENSG00000184113	claudin 5 Source HGNC Symbol Acc HGNC 2047
B08	UPFH0480601	ENST00000328796.5	CLDN6	ENSG00000184697	claudin 6 Source HGNC Symbol Acc HGNC 2048
B09	UPFH0127687	ENST00000571881.2	CLDN7	ENSG00000181885	claudin 7 Source HGNC Symbol Acc HGNC 2049
B10	UPFH0547397	ENST00000399899.1	CLDN8	ENSG00000156284	claudin 8 Source HGNC Symbol Acc HGNC 2050
B11	UPFH0211617	ENST00000445369.3	CLDN9	ENSG00000213937	claudin 9 Source HGNC Symbol Acc HGNC 2051
B12	UPFH0541475	ENST00000630500.1	DLL1	ENSG00000198719	delta like canonical Notch ligand 1 Source HGNC Symbol Acc HGNC 2908
C01	UPFH0388933	ENST00000257197.7	DSC1	ENSG00000134765	desmocollin 1 Source HGNC Symbol Acc HGNC 3035
C02	UPFH1132370	ENST00000280904.10	DSC2	ENSG00000134755	desmocollin 2 Source HGNC Symbol Acc HGNC 3036
C03	UPFH0035792	ENST00000584980.1	DSC3	ENSG00000134762	desmocollin 3 Source HGNC Symbol Acc HGNC 3037
C04	UPFH0330133	ENST00000462981.2	DSG1	ENSG00000134760	desmoglein 1 Source HGNC Symbol Acc HGNC 3048
C05	UPFH0235367	ENST00000585206.1	DSG2	ENSG00000046604	desmoglein 2 Source HGNC Symbol Acc HGNC 3049
C06	UPFH0310199	ENST00000257189.5	DSG3	ENSG00000134757	desmoglein 3 Source HGNC Symbol Acc HGNC 3050
C07	UPFH0548558	ENST00000359747.4	DSG4	ENSG00000175065	desmoglein 4 Source HGNC Symbol Acc HGNC 21307
C08	UPFH1132371	ENST00000379802.8	DSP	ENSG00000096696	desmoplakin Source HGNC Symbol Acc HGNC 3052
C09	UPFH0252765	ENST00000520645.5	DST	ENSG00000151914	dystonin Source HGNC Symbol Acc HGNC 1090
C10	UPFH0419978	ENST00000417453.5	ESAM	ENSG00000149564	endothelial cell adhesion molecule Source HGNC Symbol Acc HGNC 17474
		ENST00000621		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1132391	309.4	F11R	158769	F11 receptor Source HGNC Symbol Acc HGNC 14685
C12	UPFH0199748	ENST00000649003.1	GJA1	ENSG00000152661	gap junction protein alpha 1 Source HGNC Symbol Acc HGNC 4274
D01	UPFH0264908	ENST00000241125.4	GJA3	ENSG00000121743	gap junction protein alpha 3 Source HGNC Symbol Acc HGNC 4277
D02	UPFH0158918	ENST00000342280.5	GJA4	ENSG00000187513	gap junction protein alpha 4 Source HGNC Symbol Acc HGNC 4278
D03	UPFH0027281	ENST00000621517.1	GJA5	ENSG00000265107	gap junction protein alpha 5 Source HGNC Symbol Acc HGNC 4279
D04	UPFH0167469	ENST00000369235.1	GJA8	ENSG00000121634	gap junction protein alpha 8 Source HGNC Symbol Acc HGNC 4281
D05	UPFH0329117	ENST00000374022.3	GJB1	ENSG00000169562	gap junction protein beta 1 Source HGNC Symbol Acc HGNC 4283
D06	UPFH0363834	ENST00000382844.2	GJB2	ENSG00000165474	gap junction protein beta 2 Source HGNC Symbol Acc HGNC 4284
D07	UPFH0334337	ENST00000373366.3	GJB3	ENSG00000188910	gap junction protein beta 3 Source HGNC Symbol Acc HGNC 4285
D08	UPFH0047063	ENST00000339480.2	GJB4	ENSG00000189433	gap junction protein beta 4 Source HGNC Symbol Acc HGNC 4286
D09	UPFH0584102	ENST00000338513.1	GJB5	ENSG00000189280	gap junction protein beta 5 Source HGNC Symbol Acc HGNC 4287
D10	UPFH0528061	ENST00000645654.1	GJB6	ENSG00000121742	gap junction protein beta 6 Source HGNC Symbol Acc HGNC 4288
D11	UPFH0251475	ENST00000366714.3	GJC2	ENSG00000198835	gap junction protein gamma 2 Source HGNC Symbol Acc HGNC 17494
D12	UPFH0513786	ENST00000290374.5	GJD2	ENSG00000159248	gap junction protein delta 2 Source HGNC Symbol Acc HGNC 19154
E01	UPFH0236017	ENST00000312891.2	GJC3	ENSG00000176402	gap junction protein gamma 3 Source HGNC Symbol Acc HGNC 17495
E02	UPFH1132462	ENST00000264832.8	ICAM1	ENSG00000090339	intercellular adhesion molecule 1 Source HGNC Symbol Acc HGNC 5344
E03	UPFH0413963	ENST00000449662.6	ICAM2	ENSG00000108622	intercellular adhesion molecule 2 Source HGNC Symbol Acc HGNC 5345
E04	UPFH0229386	ENST00000282588.6	ITGA1	ENSG00000213949	integrin subunit alpha 1 Source HGNC Symbol Acc HGNC 6134
E05	UPFH1132496	ENST00000296585.10	ITGA2	ENSG00000164171	integrin subunit alpha 2 Source HGNC Symbol Acc HGNC 6137
E06	UPFH1132814	ENST00000320031.13	ITGA3	ENSG00000005884	integrin subunit alpha 3 Source HGNC Symbol Acc HGNC 6139
E07	UPFH1132815	ENST00000397033.7	ITGA4	ENSG00000115232	integrin subunit alpha 4 Source HGNC Symbol Acc HGNC 6140
E08	UPFH1132497	ENST00000293379.9	ITGA5	ENSG00000161638	integrin subunit alpha 5 Source HGNC Symbol Acc HGNC 6141
E09	UPFH0124444	ENST00000264107.11	ITGA6	ENSG00000091409	integrin subunit alpha 6 Source HGNC Symbol Acc HGNC 6142
E10	UPFH0265512	ENST00000555728.5	ITGA7	ENSG00000135424	integrin subunit alpha 7 Source HGNC Symbol Acc HGNC 6143
E11	UPFH0034113	ENST00000477064.1	ITGA8	ENSG00000077943	integrin subunit alpha 8 Source HGNC Symbol Acc HGNC 6144
E12	UPFH0191534	ENST00000264741.10	ITGA9	ENSG00000144668	integrin subunit alpha 9 Source HGNC Symbol Acc HGNC 6145
F01	UPFH0367914	ENST00000356798.10	ITGAL	ENSG00000005844	integrin subunit alpha L Source HGNC Symbol Acc HGNC 6148
F02	UPFH0542903	ENST00000287497.13	ITGAM	ENSG00000169896	integrin subunit alpha M Source HGNC Symbol Acc HGNC 6149
F03	UPFH1132816	ENST00000261023.8	ITGAV	ENSG00000138448	integrin subunit alpha V Source HGNC Symbol Acc HGNC 6150
F04	UPFH1132498	ENST00000423113.5	ITGB1	ENSG00000150093	integrin subunit beta 1 Source HGNC Symbol Acc HGNC 6153
F05	UPFH1132499	ENST00000397850.6	ITGB2	ENSG00000160255	integrin subunit beta 2 Source HGNC Symbol Acc HGNC 6155
F06	UPFH1132500	ENST00000559488.5	ITGB3	ENSG00000259207	integrin subunit beta 3 Source HGNC Symbol Acc HGNC 6156
F07	UPFH1132501	ENST00000200181.8	ITGB4	ENSG00000132470	integrin subunit beta 4 Source HGNC Symbol Acc HGNC 6158
F08	UPFH1132502	ENST00000608107.1	ITGB5	ENSG00000082781	integrin subunit beta 5 Source HGNC Symbol Acc HGNC 6160
F09	UPFH1132503	ENST00000620391.4	ITGB6	ENSG00000115221	integrin subunit beta 6 Source HGNC Symbol Acc HGNC 6161
F10	UPFH0152888	ENST00000460679.5	JAM2	ENSG00000154721	junctional adhesion molecule 2 Source HGNC Symbol Acc HGNC 14686

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0322315	ENST00000532165.1	JAM3	ENSG00000166086	junctional adhesion molecule 3 Source HGNC Symbol Acc HGNC 15532
F12	UPFH0565151	ENST00000437369.5	JUP	ENSG00000173801	junction plakoglobin Source HGNC Symbol Acc HGNC 6207
G01	UPFH0543837	ENST00000277541.7	NOTCH1	ENSG00000148400	notch 1 Source HGNC Symbol Acc HGNC 7881
G02	UPFH0591047	ENST00000640021.1	NOTCH2	ENSG00000134250	notch 2 Source HGNC Symbol Acc HGNC 7882
G03	UPFH0053070	ENST00000597756.1	NOTCH3	ENSG00000074181	notch 3 Source HGNC Symbol Acc HGNC 7883
G04	UPFH1132594	ENST00000375023.3	NOTCH4	ENSG00000204301	notch 4 Source HGNC Symbol Acc HGNC 7884
G05	UPFH1132600	ENST00000355237.6	OCLN	ENSG00000197822	occludin Source HGNC Symbol Acc HGNC 8104
G06	UPFH0204047	ENST00000526416.5	PLEC	ENSG00000178209	plectin Source HGNC Symbol Acc HGNC 9069
G07	UPFH0405991	ENST00000341398.6	NECTIN1	ENSG00000110400	nectin cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 9706
G08	UPFH0301384	ENST00000591581.1	NECTIN2	ENSG00000130202	nectin cell adhesion molecule 2 Source HGNC Symbol Acc HGNC 9707
G09	UPFH0376239	ENST00000461477.5	NECTIN3	ENSG00000177707	nectin cell adhesion molecule 3 Source HGNC Symbol Acc HGNC 17664
G10	UPFH0310877	ENST00000558447.1	TJP1	ENSG00000104067	tight junction protein 1 Source HGNC Symbol Acc HGNC 11827
G11	UPFH0564119	ENST00000649783.1	TJP2	ENSG00000119139	tight junction protein 2 Source HGNC Symbol Acc HGNC 11828
G12	UPFH0597202	ENST00000541714.7	TJP3	ENSG00000105289	tight junction protein 3 Source HGNC Symbol Acc HGNC 11829
H01	UPFH1132936	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	UPFH1132937	ENST00000544417.5	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	UPFH1132938	ENST00000229239.10	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	UPFH1132939	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	UPFH1132941	ENST00000392514.9	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	UPFH1126608	UPL_HGDC	HGDC	UPL_HGDC	Human 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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