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

Rat Adherens Junctions

Cat. no. 249955 UPRN-146ZR

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	Actn1	Actn3	Actn4	Anapc1	Arf6	Baiap2	Cbll1	Cdc16	Cdc23	Cdc27	Cdc42	Cdh1
B	Cdh2	Cdh3	Cdh4	Cdh5	Clip1	Csnk2a1	Csnk2a2	Csnk2b	Ctnna2	AABR0704490 0.1	Ctnnb1	Ctnnd1
C	Dlg5	Dll1	Dnm1	Dnm2	Dsc1	Dsc2	Dsc3	Dsg1	Dsg3	Dsg4	Dsp	Exoc2
D	Farp2	Fer	Flna	Flnb	Fyn	Hgs	Iqgap1	Jup	Lmo7	Mapre1	Mapre3	Afdn
E	Nme1	Notch1	Notch2	Notch3	Notch4	P2rx6	Pard3	Perp	Pik3cg	Pkp1	AABR0703476 7.1	Pkp3
F	Pkp4	Pnn	Plpp3	Ppl	Nectin1	Nectin2	Nectin3	Rac1	Rac2	Rala	Rhoa	Sorbs1
G	Src	Ssx2ip	Tjp1	Tln1	Vcl	Vezt	Was	Wasf1	Wasf2	Wasl	Yes1	Zyx
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	UPFR1055702	ENSRNOT00000088795.1	Actn1	ENSRNOG00000056756	actinin, alpha 1 Source RGD Symbol Acc 70907
A02	UPFR1098063	ENSRNOT00000026812.5	Actn3	ENSRNOG00000019745	actinin alpha 3 Source RGD Symbol Acc 621792
A03	UPFR1049536	ENSRNOT00000090402.1	Actn4	ENSRNOG00000020433	actinin alpha 4 Source RGD Symbol Acc 61816
A04	UPFR1099193	ENSRNOT00000055875.3	Anapc1	ENSRNOG00000016965	anaphase promoting complex subunit 1 Source RGD Symbol Acc 1306629
A05	UPFR1087505	ENSRNOT00000006355.5	Arf6	ENSRNOG00000004791	ADP-ribosylation factor 6 Source RGD Symbol Acc 621279
A06	UPFR1064300	ENSRNOT00000005687.6	Baiap2	ENSRNOG00000004049	BAI1-associated protein 2 Source RGD Symbol Acc 619814
A07	UPFR1101731	ENSRNOT00000009566.4	Cbll1	ENSRNOG00000007253	Cbl proto-oncogene like 1 Source RGD Symbol Acc 1310703
A08	UPFR1052371	ENSRNOT00000090674.1	Cdc16	ENSRNOG00000017536	cell division cycle 16 Source RGD Symbol Acc 1305076
A09	UPFR1054357	ENSRNOT00000037888.4	Cdc23	ENSRNOG00000024241	cell division cycle 23 Source RGD Symbol Acc 1304819
A10	UPFR1087432	ENSRNOT00000007963.5	Cdc27	ENSRNOG00000005904	cell division cycle 27 Source RGD Symbol Acc 1304921
A11	UPFR1103160	ENSRNOT00000018118.5	Cdc42	ENSRNOG00000013536	cell division cycle 42 Source RGD Symbol Acc 71043
A12	UPFR1037315	ENSRNOT00000027346.2	Cdh1	ENSRNOG00000020151	cadherin 1 Source RGD Symbol Acc 69279
B01	UPFR1054833	ENSRNOT00000021170.6	Cdh2	ENSRNOG00000015602	cadherin 2 Source RGD Symbol Acc 69280
B02	UPFR1075054	ENSRNOT00000027273.7	Cdh3	ENSRNOG00000020129	cadherin 3 Source RGD Symbol Acc 621089
B03	UPFR1103260	ENSRNOT00000082601.1	Cdh4	ENSRNOG00000052405	cadherin 4 Source NCBI gene Acc 114588
B04	UPFR1038288	ENSRNOT00000017983.6	Cdh5	ENSRNOG00000013324	cadherin 5 Source RGD Symbol Acc 1307370
B05	UPFR1049297	ENSRNOT00000088002.1	Clip1	ENSRNOG00000001247	CAP-GLY domain containing linker protein 1 Source RGD Symbol Acc 67404
B06	UPFR1071105	ENSRNOT00000007558.5	Csnk2a1	ENSRNOG00000005276	casein kinase 2 alpha 1 Source RGD Symbol Acc 621663
B07	UPFR1028007	ENSRNOT00000016386.7	Csnk2a2	ENSRNOG00000011933	casein kinase 2 alpha 2 Source RGD Symbol Acc 1306882
B08	UPFR1014922	ENSRNOT00000076528.1	Csnk2b	ENSRNOG00000000847	casein kinase 2 beta Source RGD Symbol Acc 619978
B09	UPFR1030863	ENSRNOT00000007971.7	Ctnna2	ENSRNOG00000006003	catenin alpha 2 Source RGD Symbol Acc 1305060
B10	UPFR1069481	ENSRNOT00000057950.4	AABR07044900.1	ENSRNOG00000000373	
B11	UPFR1057605	ENSRNOT00000079085.1	Ctnnb1	ENSRNOG00000054172	catenin beta 1 Source RGD Symbol Acc 70487
B12	UPFR1039030	ENSRNOT00000081400.1	Ctnnd1	ENSRNOG00000030790	catenin delta 1 Source RGD Symbol Acc 1305643
C01	UPFR1069578	ENSRNOT00000007828.8	Dlg5	ENSRNOG00000005783	discs large MAGUK scaffold protein 5 Source RGD Symbol Acc 1308753
C02	UPFR1058929	ENSRNOT00000080429.1	Dll1	ENSRNOG00000059984	delta like canonical Notch ligand 1 Source RGD Symbol Acc 70949
C03	UPFR1018875	ENSRNOT00000047921.5	Dnm1	ENSRNOG00000033835	dynamin 1 Source RGD Symbol Acc 71096
C04	UPFR1058441	ENSRNOT00000010947.5	Dnm2	ENSRNOG00000007649	dynamin 2 Source RGD Symbol Acc 2513
C05	UPFR1026831	ENSRNOT00000078207.1	Dsc1	ENSRNOG00000056258	desmocollin 1 Source RGD Symbol Acc 1310768
C06	UPFR1021733	ENSRNOT00000082891.1	Dsc2	ENSRNOG00000039969	desmocollin 2 Source RGD Symbol Acc 1309426
C07	UPFR1097574	ENSRNOT00000077304.1	Dsc3	ENSRNOG00000017159	desmocollin 3 Source RGD Symbol Acc 1311782
C08	UPFR1074551	ENSRNOT00000061344.4	Dsg1	ENSRNOG00000016853	desmoglein 1 Source RGD Symbol Acc 1309925
C09	UPFR1098066	ENSRNOT00000022584.4	Dsg3	ENSRNOG00000016632	desmoglein 3 Source RGD Symbol Acc 1592103
C10	UPFR1031417	ENSRNOT00000038450.2	Dsg4	ENSRNOG00000022364	desmoglein 4 Source RGD Symbol Acc 735015
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1093849	018649.6	Dsp	000013928	desmoplakin Source RGD Symbol Acc 1305794
C12	UPFR1102187	ENSRNOT00000 085704.1	Exoc2	ENSRNOG00 000060266	exocyst complex component 2-like Source RGD Symbol Acc 9258978
D01	UPFR1044821	ENSRNOT00000 024440.5	Farp2	ENSRNOG00 000018051	FERM, ARH/RhoGEF and pleckstrin domain protein 2 Source RGD Symbol Acc 1308003
D02	UPFR1061609	ENSRNOT00000 021758.7	Fer	ENSRNOG00 000015898	FER tyrosine kinase Source RGD Symbol Acc 1306273
D03	UPFR1022072	ENSRNOT00000 079889.1	Flna	ENSRNOG00 000054890	filamin A Source RGD Symbol Acc 1560614
D04	UPFR1042553	ENSRNOT00000 066546.1	Flnb	ENSRNOG00 000009470	filamin B Source RGD Symbol Acc 1311915
D05	UPFR1087186	ENSRNOT00000 085987.1	Fyn	ENSRNOG00 000000596	FYN proto-oncogene, Src family tyrosine kinase Source RGD Symbol Acc 2641
D06	UPFR1066634	ENSRNOT00000 054966.4	Hgs	ENSRNOG00 000036696	hepatocyte growth factor-regulated tyrosine kinase substrate Source RGD Symbol Acc 69225
D07	UPFR1097558	ENSRNOT00000 018021.5	Iqgap1	ENSRNOG00 000012002	IQ motif containing GTPase activating protein 1 Source RGD Symbol Acc 1311884
D08	UPFR1108217	ENSRNOT00000 089933.1	Jup	ENSRNOG00 000015380	junction plakoglobin Source RGD Symbol Acc 620412
D09	UPFR1101387	ENSRNOT00000 084471.1	Lmo7	ENSRNOG00 000060775	LIM domain 7 Source RGD Symbol Acc 1302984
D10	UPFR1090345	ENSRNOT00000 016220.6	Mapre1	ENSRNOG00 000011798	microtubule-associated protein, RP/EB family, member 1 Source RGD Symbol Acc 621781
D11	UPFR1034406	ENSRNOT00000 011874.4	Mapre3	ENSRNOG00 000008961	microtubule-associated protein, RP/EB family, member 3 Source RGD Symbol Acc 1359297
D12	UPFR1098651	ENSRNOT00000 032667.7	Afdn	ENSRNOG00 000023753	afadin, adherens junction formation factor Source RGD Symbol Acc 708561
E01	UPFR1113057	ENSRNOT00000 003658.2	Nme1	ENSRNOG00 000002693	NME/NM23 nucleoside diphosphate kinase 1 Source RGD Symbol Acc 70497
E02	UPFR1044597	ENSRNOT00000 026212.7	Notch1	ENSRNOG00 000019322	notch 1 Source RGD Symbol Acc 3187
E03	UPFR1064592	ENSRNOT00000 025718.4	Notch2	ENSRNOG00 000018835	notch 2 Source RGD Symbol Acc 3188
E04	UPFR1027756	ENSRNOT00000 037456.4	Notch3	ENSRNOG00 000004346	notch 3 Source RGD Symbol Acc 620761
E05	UPFR1111007	ENSRNOT00000 000513.4	Notch4	ENSRNOG00 000000442	notch 4 Source RGD Symbol Acc 1303282
E06	UPFR1045593	ENSRNOT00000 002558.6	P2rx6	ENSRNOG00 000001873	purinergic receptor P2X 6 Source RGD Symbol Acc 3243
E07	UPFR1016407	ENSRNOT00000 042623.4	Pard3	ENSRNOG00 000032437	par-3 family cell polarity regulator Source RGD Symbol Acc 620374
E08	UPFR1048071	ENSRNOT00000 016037.6	Perp	ENSRNOG00 000011994	PERP, TP53 apoptosis effector Source RGD Symbol Acc 1310294
E09	UPFR1091290	ENSRNOT00000 012487.5	Pik3cg	ENSRNOG00 000009385	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma Source RGD Symbol Acc 1306468
E10	UPFR1098370	ENSRNOT00000 013531.5	Pkp1	ENSRNOG00 000010076	plakophilin 1 Source RGD Symbol Acc 1307472
E11	UPFR1043695	ENSRNOT00000 002498.7	AABR0703 4767.1	ENSRNOG00 000001825	
E12	UPFR1078386	ENSRNOT00000 020864.4	Pkp3	ENSRNOG00 000015152	plakophilin 3 Source RGD Symbol Acc 1309133
F01	UPFR1096432	ENSRNOT00000 059246.5	Pkp4	ENSRNOG00 000005504	plakophilin 4 Source RGD Symbol Acc 1307840
F02	UPFR1056277	ENSRNOT00000 005439.5	Pnn	ENSRNOG00 000004061	pinin, desmosome associated protein Source RGD Symbol Acc 1597086
F03	UPFR1081880	ENSRNOT00000 011237.5	Plpp3	ENSRNOG00 000008116	phospholipid phosphatase 3 Source RGD Symbol Acc 620454
F04	UPFR1029151	ENSRNOT00000 004026.4	Ppl	ENSRNOG00 000002930	periplakin Source RGD Symbol Acc 1305511
F05	UPFR1033998	ENSRNOT00000 008614.7	Nectin1	ENSRNOG00 000006403	nectin cell adhesion molecule 1 Source RGD Symbol Acc 620791
F06	UPFR1060484	ENSRNOT00000 025388.6	Nectin2	ENSRNOG00 000018730	nectin cell adhesion molecule 2 Source RGD Symbol Acc 1309505
F07	UPFR1120777	ENSRNOT00000 002957.5	Nectin3	ENSRNOG00 000002176	nectin cell adhesion molecule 3 Source RGD Symbol Acc 1309516
F08	UPFR1019271	ENSRNOT00000 001417.5	Rac1	ENSRNOG00 000001068	Rac family small GTPase 1 Source RGD Symbol Acc 619755
F09	UPFR1037602	ENSRNOT00000 009994.5	Rac2	ENSRNOG00 000007350	Rac family small GTPase 2 Source RGD Symbol Acc 1307568
F10	UPFR1082097	ENSRNOT00000 018190.4	Rala	ENSRNOG00 000013454	RAS like proto-oncogene A Source RGD Symbol Acc 619851

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1119707	ENSRNOT00000071664.2	Rhoa	ENSRNOG00000050519	ras homolog family member A Source RGD Symbol Acc 619921
F12	UPFR1049169	ENSRNOT00000021114.8	Sorbs1	ENSRNOG00000015658	sorbin and SH3 domain containing 1 Source RGD Symbol Acc 1586598
G01	UPFR1050158	ENSRNOT00000012739.4	Src	ENSRNOG00000009495	SRC proto-oncogene, non-receptor tyrosine kinase Source RGD Symbol Acc 620795
G02	UPFR1041198	ENSRNOT00000041186.5	Ssx2ip	ENSRNOG00000015425	SSX family member 2 interacting protein Source RGD Symbol Acc 708490
G03	UPFR1053688	ENSRNOT00000014988.7	Tjp1	ENSRNOG00000011077	tight junction protein 1 Source RGD Symbol Acc 1306305
G04	UPFR1015447	ENSRNOT00000022400.5	Tln1	ENSRNOG00000016630	talin 1 Source RGD Symbol Acc 1306247
G05	UPFR1109271	ENSRNOT00000015179.7	Vcl	ENSRNOG00000010765	vinculin Source RGD Symbol Acc 1311217
G06	UPFR1015708	ENSRNOT00000030015.4	Vezt	ENSRNOG00000006514	vezatin, adherens junctions transmembrane protein Source RGD Symbol Acc 1359117
G07	UPFR1114413	ENSRNOT00000051439.4	Was	ENSRNOG00000031058	Wiskott-Aldrich syndrome Source RGD Symbol Acc 1563567
G08	UPFR1096087	ENSRNOT00000073091.2	Wasf1	ENSRNOG00000047476	WAS protein family, member 1 Source RGD Symbol Acc 1561954
G09	UPFR1073840	ENSRNOT00000077807.1	Wasf2	ENSRNOG00000009805	WAS protein family, member 2 Source RGD Symbol Acc 1307299
G10	UPFR1073976	ENSRNOT00000009261.6	Wasl	ENSRNOG00000006975	Wiskott-Aldrich syndrome-like Source RGD Symbol Acc 735144
G11	UPFR1120716	ENSRNOT00000056250.4	Yes1	ENSRNOG00000037227	YES proto-oncogene 1, Src family tyrosine kinase Source RGD Symbol Acc 3977
G12	UPFR1055727	ENSRNOT00000023537.5	Zyx	ENSRNOG00000017354	zyxin Source RGD Symbol Acc 620698
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.

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.

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