

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

Rat Extracellular Matrix & Adhesion Molecules

Cat. no. 249955 UPRN-013ZR

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	Adams1	Adams2	Adams5	Adams8	Cttna1	Cd44	Cdh1	Cdh2	Cdh3	Cdh4	Cntn1	Col1a1
B	Col2a1	Col3a1	Col4a1	Col4a2	Col4a3	Col5a1	Col6a1	Col8a1	Ccn2	Cttna2	Ctnnb1	Ecm1
C	Emilin1	Entpd1	Fbln1	<td>Hsp1n1</td> <td>Icam1</td> <td>Itga2</td> <td>Itga3</td> <td>Itga4</td> <td>Itga5</td> <td>Itgax</td> <td>Itgae</td>	Hsp1n1	Icam1	Itga2	Itga3	Itga4	Itga5	Itgax	Itgae
D	Itgal	Itgad	Itgav	Itgb1	Itgb2	Itgb3	Itgb4	Lama1	Lama2	AABR0703119 3.1	Lamb2	Lamb3
E	Lamc1	Mmp10	LOC1036948 74	Mmp12	Mmp13	Mmp14	Mmp15	Mmp16	Mmp1	Mmp2	Mmp3	Mmp7
F	Mmp8	Mmp9	Ncam1	Ncam2	Cdh12	Postn	Sele	Sell	Selp	Sgce	Sparc	Spock1
G	Spp1	Syt1	Tgfb1	Thbs1	Thbs2	Timp1	Timp2	Timp3	Tnc	Vcam1	Vcan	Vtn
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	UPFR1105539	ENSRNOT0000002187.7	Adams1	ENSRNOG0000001607	ADAM metalloproteinase with thrombospondin type 1 motif, 1 Source RGD Symbol Acc 621241
A02	UPFR1099542	ENSRNOT00000083568.1	Adams2	ENSRNOG00000061484	ADAM metalloproteinase with thrombospondin type 1 motif, 2 Source RGD Symbol Acc 1565950
A03	UPFR1036472	ENSRNOT00000085444.1	Adams5	ENSRNOG00000057794	ADAM metalloproteinase with thrombospondin type 1 motif, 5 Source RGD Symbol Acc 735196
A04	UPFR1114802	ENSRNOT00000007358.7	Adams8	ENSRNOG0000005574	ADAM metalloproteinase with thrombospondin type 1 motif, 8 Source RGD Symbol Acc 1308511
A05	UPFR1115058	ENSRNOT00000080999.1	Cttna1	ENSRNOG0000005796	catenin alpha 1 Source RGD Symbol Acc 1359485
A06	UPFR1040363	ENSRNOT00000009073.7	Cd44	ENSRNOG0000006094	CD44 molecule (Indian blood group) Source RGD Symbol Acc 2307
A07	UPFR1037315	ENSRNOT00000027346.2	Cdh1	ENSRNOG00000020151	cadherin 1 Source RGD Symbol Acc 69279
A08	UPFR1054833	ENSRNOT00000021170.6	Cdh2	ENSRNOG00000015602	cadherin 2 Source RGD Symbol Acc 69280
A09	UPFR1075054	ENSRNOT00000027273.7	Cdh3	ENSRNOG00000020129	cadherin 3 Source RGD Symbol Acc 621089
A10	UPFR1103260	ENSRNOT00000082601.1	Cdh4	ENSRNOG00000052405	cadherin 4 Source NCBI gene Acc 114588
A11	UPFR1084154	ENSRNOT00000080621.1	Cntn1	ENSRNOG0000004438	contactin 1 Source RGD Symbol Acc 621300
A12	UPFR1053469	ENSRNOT00000005311.6	Col1a1	ENSRNOG0000003897	collagen type I alpha 1 chain Source RGD Symbol Acc 61817
B01	UPFR1079135	ENSRNOT00000086062.1	Col2a1	ENSRNOG00000058560	collagen type II alpha 1 chain Source RGD Symbol Acc 2375
B02	UPFR1066020	ENSRNOT00000004956.4	Col3a1	ENSRNOG00000003357	collagen type III alpha 1 chain Source RGD Symbol Acc 71029
B03	UPFR1018897	ENSRNOT00000057386.2	Col4a1	ENSRNOG00000016281	collagen type IV alpha 1 chain Source RGD Symbol Acc 1307148
B04	UPFR1101722	ENSRNOT00000057461.4	Col4a2	ENSRNOG00000023972	collagen type IV alpha 2 chain Source RGD Symbol Acc 1308085
B05	UPFR1065434	ENSRNOT00000020669.5	Col4a3	ENSRNOG00000015365	collagen type IV alpha 3 chain Source RGD Symbol Acc 71085
B06	UPFR1087101	ENSRNOT00000012334.7	Col5a1	ENSRNOG00000008749	collagen type V alpha 1 chain Source RGD Symbol Acc 70920
B07	UPFR1116990	ENSRNOT00000072951.2	Col6a1	ENSRNOG0000001249	collagen type VI alpha 1 chain Source RGD Symbol Acc 1565398
B08	UPFR1115343	ENSRNOT00000060838.4	Col8a1	ENSRNOG00000039668	collagen type VIII alpha 1 chain Source RGD Symbol Acc 1309361
B09	UPFR1047569	ENSRNOT00000089196.1	Ccn2	ENSRNOG00000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
B10	UPFR1030863	ENSRNOT00000007971.7	Cttna2	ENSRNOG0000006003	catenin alpha 2 Source RGD Symbol Acc 1305060
B11	UPFR1057605	ENSRNOT00000079085.1	Cttnb1	ENSRNOG00000054172	catenin beta 1 Source RGD Symbol Acc 70487
B12	UPFR1115248	ENSRNOT00000028740.5	Ecm1	ENSRNOG00000021166	extracellular matrix protein 1 Source RGD Symbol Acc 620357
C01	UPFR1048929	ENSRNOT00000010932.5	Emilin1	ENSRNOG00000008246	elastin microfibril interfacier 1 Source RGD Symbol Acc 1311209
C02	UPFR1038092	ENSRNOT00000054719.4	Entpd1	ENSRNOG00000014574	ectonucleoside triphosphate diphosphohydrolase 1 Source RGD Symbol Acc 69265
C03	UPFR1052227	ENSRNOT00000047234.4	Fbln1	ENSRNOG00000014137	fibulin 1 Source RGD Symbol Acc 1308667
C04	UPFR1089380	ENSRNOT00000057585.4	Fn1	ENSRNOG00000014288	fibronectin 1 Source RGD Symbol Acc 2624
C05	UPFR1093115	ENSRNOT00000043196.4	Hapl1	ENSRNOG00000032002	hyaluronan and proteoglycan link protein 1 Source RGD Symbol Acc 2412
C06	UPFR1031281	ENSRNOT00000028066.5	Icam1	ENSRNOG00000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
C07	UPFR1068108	ENSRNOT00000077401.1	Itga2	ENSRNOG00000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
C08	UPFR1093170	ENSRNOT00000005644.6	Itga3	ENSRNOG00000004276	integrin subunit alpha 3 Source RGD Symbol Acc 1310333
C09	UPFR1097667	ENSRNOT00000006880.6	Itga4	ENSRNOG00000004861	integrin subunit alpha 4 Source RGD Symbol Acc 1593249
C10	UPFR1023329	ENSRNOT00000087748.1	Itga5	ENSRNOG00000057451	integrin subunit alpha 5 Source RGD Symbol Acc 2925
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1013587	054983.4	Itgax	000036703	integrin subunit alpha X Source RGD Symbol Acc 1561123
C12	UPFR1017470	ENSRNOT00000 077107.1	Itgae	ENSRNOG00 000046639	integrin subunit alpha E Source RGD Symbol Acc 621644
D01	UPFR1057182	ENSRNOT00000 024404.6	Itgal	ENSRNOG00 000017980	integrin subunit alpha L Source RGD Symbol Acc 631424
D02	UPFR1089159	ENSRNOT00000 026748.4	Itgad	ENSRNOG00 000019728	integrin subunit alpha M Source RGD Symbol Acc 2926
D03	UPFR1097241	ENSRNOT00000 006961.7	Itgav	ENSRNOG00 000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
D04	UPFR1091655	ENSRNOT00000 014785.5	Itgb1	ENSRNOG00 000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
D05	UPFR1033837	ENSRNOT00000 001639.6	Itgb2	ENSRNOG00 000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
D06	UPFR1016531	ENSRNOT00000 073350.2	Itgb3	ENSRNOG00 000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
D07	UPFR1035313	ENSRNOT00000 065339.2	Itgb4	ENSRNOG00 000005580	integrin subunit beta 4 Source RGD Symbol Acc 2928
D08	UPFR1092904	ENSRNOT00000 023226.6	Lama1	ENSRNOG00 000017237	laminin subunit alpha 1 Source RGD Symbol Acc 1307207
D09	UPFR1050504	ENSRNOT00000 079138.1	Lama2	ENSRNOG00 000011134	laminin subunit alpha 2 Source RGD Symbol Acc 1308889
D10	UPFR1112312	ENSRNOT00000 015363.7	AABR0703 1193.1	ENSRNOG00 000011300	laminin subunit alpha 3 Source NCBI gene Acc 307582
D11	UPFR1073518	ENSRNOT00000 072098.2	Lamb2	ENSRNOG00 000047768	laminin subunit beta 2 Source RGD Symbol Acc 2988
D12	UPFR1030606	ENSRNOT00000 008440.6	Lamb3	ENSRNOG00 000006025	laminin subunit beta 3 Source RGD Symbol Acc 1562668
E01	UPFR1118498	ENSRNOT00000 092521.1	Lamc1	ENSRNOG00 000002680	laminin subunit gamma 1 Source RGD Symbol Acc 621052
E02	UPFR1089526	ENSRNOT00000 013119.4	Mmp10	ENSRNOG00 000032832	matrix metalloproteinase 10 Source RGD Symbol Acc 620192
E03	UPFR1015901	ENSRNOT00000 031400.5	LOC10369 4874	ENSRNOG00 000028344	stromelysin-3 Source RGD Symbol Acc 9106139
E04	UPFR1017195	ENSRNOT00000 011727.6	Mmp12	ENSRNOG00 000030187	matrix metalloproteinase 12 Source RGD Symbol Acc 620195
E05	UPFR1099162	ENSRNOT00000 011507.5	Mmp13	ENSRNOG00 000008478	matrix metalloproteinase 13 Source RGD Symbol Acc 620196
E06	UPFR1097779	ENSRNOT00000 075610.2	Mmp14	ENSRNOG00 000010947	matrix metalloproteinase 14 Source RGD Symbol Acc 620198
E07	UPFR1017216	ENSRNOT00000 017629.6	Mmp15	ENSRNOG00 000012622	matrix metalloproteinase 15 Source RGD Symbol Acc 1308937
E08	UPFR1020113	ENSRNOT00000 050137.5	Mmp16	ENSRNOG00 000005708	matrix metalloproteinase 16 Source RGD Symbol Acc 620199
E09	UPFR1101595	ENSRNOT00000 012595.3	Mmp1	ENSRNOG00 000032353	matrix metalloproteinase 1 Source RGD Symbol Acc 1307917
E10	UPFR1080151	ENSRNOT00000 022679.6	Mmp2	ENSRNOG00 000016695	matrix metalloproteinase 2 Source RGD Symbol Acc 621316
E11	UPFR1017988	ENSRNOT00000 012310.6	Mmp3	ENSRNOG00 000032626	matrix metalloproteinase 3 Source RGD Symbol Acc 621317
E12	UPFR1034539	ENSRNOT00000 014041.5	Mmp7	ENSRNOG00 000010507	matrix metalloproteinase 7 Source RGD Symbol Acc 3100
F01	UPFR1084685	ENSRNOT00000 013936.3	Mmp8	ENSRNOG00 000009907	matrix metalloproteinase 8 Source RGD Symbol Acc 631408
F02	UPFR1032957	ENSRNOT00000 023965.3	Mmp9	ENSRNOG00 000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
F03	UPFR1059961	ENSRNOT00000 042281.6	Ncam1	ENSRNOG00 000031890	neural cell adhesion molecule 1 Source RGD Symbol Acc 67378
F04	UPFR1044550	ENSRNOT00000 002895.7	Ncam2	ENSRNOG00 000002126	neural cell adhesion molecule 2 Source RGD Symbol Acc 1303131
F05	UPFR1050226	ENSRNOT00000 034044.5	Cdh12	ENSRNOG00 000026392	cadherin 12 Source RGD Symbol Acc 1566350
F06	UPFR1075701	ENSRNOT00000 084527.1	Postn	ENSRNOG00 000012660	periostin Source RGD Symbol Acc 1305285
F07	UPFR1029154	ENSRNOT00000 030677.3	Sele	ENSRNOG00 000002723	selectin E Source RGD Symbol Acc 3654
F08	UPFR1104551	ENSRNOT00000 003733.6	Sell	ENSRNOG00 000002776	selectin L Source RGD Symbol Acc 3655
F09	UPFR1033299	ENSRNOT00000 076879.2	Selp	ENSRNOG00 000002794	selectin P Source RGD Symbol Acc 3656
F10	UPFR1025429	ENSRNOT00000 074177.2	Sgce	ENSRNOG00 000046905	sarcoglycan, epsilon Source RGD Symbol Acc 1303201

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1099979	ENSRNOT00000017486.7	Sparc	ENSRNOG0000012840	secreted protein acidic and cysteine rich Source RGD Symbol Acc 3742
F12	UPFR1088649	ENSRNOT00000061187.3	Spock1	ENSRNOG0000012747	sparc/osteonectin, cwcv and kazal like domains proteoglycan 1 Source RGD Symbol Acc 1311496
G01	UPFR1100110	ENSRNOT00000067875.4	Spp1	ENSRNOG0000043451	secreted phosphoprotein 1 Source RGD Symbol Acc 3752
G02	UPFR1065705	ENSRNOT00000088950.1	Syt1	ENSRNOG0000006426	synaptotagmin 1 Source RGD Symbol Acc 3803
G03	UPFR1042228	ENSRNOT00000016390.7	Tgfb1	ENSRNOG0000012216	transforming growth factor, beta induced Source RGD Symbol Acc 620017
G04	UPFR1104745	ENSRNOT00000083351.1	Thbs1	ENSRNOG0000045829	thrombospondin 1 Source RGD Symbol Acc 1588455
G05	UPFR1102771	ENSRNOT00000014552.7	Thbs2	ENSRNOG0000010529	thrombospondin 2 Source RGD Symbol Acc 1310979
G06	UPFR1060230	ENSRNOT00000013745.5	Timp1	ENSRNOG0000010208	TIMP metalloproteinase inhibitor 1 Source RGD Symbol Acc 621675
G07	UPFR1066754	ENSRNOT00000004290.4	Timp2	ENSRNOG0000003148	TIMP metalloproteinase inhibitor 2 Source RGD Symbol Acc 61312
G08	UPFR1107259	ENSRNOT00000005746.5	Timp3	ENSRNOG0000004303	TIMP metalloproteinase inhibitor 3 Source RGD Symbol Acc 3865
G09	UPFR1025799	ENSRNOT00000084563.1	Tnc	ENSRNOG0000058645	tenascin C Source RGD Symbol Acc 621057
G10	UPFR1101375	ENSRNOT00000019377.5	Vcam1	ENSRNOG0000014333	vascular cell adhesion molecule 1 Source RGD Symbol Acc 3952
G11	UPFR1115726	ENSRNOT00000088313.1	Vcan	ENSRNOG0000029212	versican Source RGD Symbol Acc 619940
G12	UPFR1105823	ENSRNOT00000039954.5	Vtn	ENSRNOG0000010031	vitronectin Source RGD Symbol Acc 3967
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	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 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.

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.