

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

Rat Fibrosis

Cat. no. 249955 UPRN-120ZR

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	Acta2	Agf1	Akt1	Bcl2	Bmp7	Cav1	Ccl11	Ccl12	Ccl3	Ccr7	Cebpb	Col1a2
B	Col3a1	Ccn2	Cxcr4	Dcn	Edn1	Egf	Eng	Faslg	Grem1	Hgf	Ifng	Il10
C	Il13	Il13ra2	Il1a	Il1b	Il4	Il5	Ilk	Inhbe	Itga1	Itga2	Itga3	Itgav
D	Itgb1	Itgb3	Itgb5	Itgb6	Itgb8	Jun	Lax	Ltbp1	Mmp13	Mmp14	Mmp1	Mmp2
E	Mmp3	Mmp8	Mmp9	Myc	Nfk1	Pdgfa	Pdgfb	Plat	Plau	Plg	Serpina1	Serpine1
F	Serpinh1	Smad2	Smad3	Smad4	Smad6	Smad7	Snai1	Sp1	Stat1	Stat6	Tgfb1	Tgfb2
G	Tgfb3	Tgfb1	Tgfb2	Tgfb1	Thbs1	Thbs2	Timp1	Timp2	Timp3	Timp4	LOC1036943 80	Vegfa
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	UPFR1115786	ENSRNOT00000083468.1	Acta2	ENSRNOG0000058039	actin, alpha 2, smooth muscle, aorta Source RGD Symbol Acc 621676
A02	UPFR1049261	ENSRNOT00000024917.4	Agt	ENSRNOG0000018445	angiotensinogen Source RGD Symbol Acc 2069
A03	UPFR1083196	ENSRNOT00000031164.3	Akt1	ENSRNOG0000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A04	UPFR1082998	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A05	UPFR1105126	ENSRNOT00000084990.1	Bmp7	ENSRNOG0000053384	bone morphogenetic protein 7 Source RGD Symbol Acc 620743
A06	UPFR1012931	ENSRNOT00000078250.1	Cav1	ENSRNOG0000056836	caveolin 1 Source RGD Symbol Acc 2280
A07	UPFR1034165	ENSRNOT00000009756.5	Ccl11	ENSRNOG0000007335	C-C motif chemokine ligand 11 Source RGD Symbol Acc 3644
A08	UPFR1080637	ENSRNOT00000031626.5	Ccl12	ENSRNOG0000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
A09	UPFR1057376	ENSRNOT00000015139.3	Ccl3	ENSRNOG0000011205	C-C motif chemokine ligand 3 Source RGD Symbol Acc 3647
A10	UPFR1029602	ENSRNOT00000014163.7	Ccr7	ENSRNOG0000010665	C-C motif chemokine receptor 7 Source RGD Symbol Acc 735151
A11	UPFR1126579	ENSRNOT00000083876.1	Cebpb	ENSRNOG0000057347	CCAAT/enhancer binding protein beta Source RGD Symbol Acc 2327
A12	UPFR1109083	ENSRNOT00000089292.1	Col1a2	ENSRNOG0000011292	collagen type I alpha 2 chain Source RGD Symbol Acc 621351
B01	UPFR1066020	ENSRNOT00000004956.4	Col3a1	ENSRNOG0000003357	collagen type III alpha 1 chain Source RGD Symbol Acc 71029
B02	UPFR1047569	ENSRNOT00000089196.1	Ccn2	ENSRNOG0000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
B03	UPFR1030244	ENSRNOT00000005143.6	Cxcr4	ENSRNOG0000003866	C-X-C motif chemokine receptor 4 Source RGD Symbol Acc 620465
B04	UPFR1014708	ENSRNOT00000006070.6	Dcn	ENSRNOG0000004554	decorin Source RGD Symbol Acc 61895
B05	UPFR1035851	ENSRNOT00000019361.2	Edn1	ENSRNOG0000014361	endothelin 1 Source RGD Symbol Acc 2532
B06	UPFR1045222	ENSRNOT00000087007.1	Egf	ENSRNOG0000053979	epidermal growth factor Source RGD Symbol Acc 2542
B07	UPFR1081956	ENSRNOT00000071801.2	Eng	ENSRNOG0000050190	endoglin Source RGD Symbol Acc 1593188
B08	UPFR1108356	ENSRNOT00000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
B09	UPFR1094825	ENSRNOT00000037895.3	Grem1	ENSRNOG0000026053	gremlin 1, DAN family BMP antagonist Source RGD Symbol Acc 2359
B10	UPFR1076642	ENSRNOT00000009763.5	Hgf	ENSRNOG0000007027	hepatocyte growth factor Source RGD Symbol Acc 2794
B11	UPFR1084134	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
B12	UPFR1113235	ENSRNOT00000006246.5	Il10	ENSRNOG0000004647	interleukin 10 Source RGD Symbol Acc 2886
C01	UPFR1038252	ENSRNOT00000010121.2	Il13	ENSRNOG0000007652	interleukin 13 Source RGD Symbol Acc 68949
C02	UPFR1073645	ENSRNOT00000084465.1	Il13ra2	ENSRNOG0000032973	interleukin 13 receptor subunit alpha 2 Source RGD Symbol Acc 620838
C03	UPFR1066959	ENSRNOT00000080818.1	Il1a	ENSRNOG0000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
C04	UPFR1121351	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
C05	UPFR1099283	ENSRNOT00000010029.3	Il4	ENSRNOG0000007624	interleukin 4 Source RGD Symbol Acc 2898
C06	UPFR1086524	ENSRNOT00000010729.4	Il5	ENSRNOG0000008111	interleukin 5 Source RGD Symbol Acc 2900
C07	UPFR1118308	ENSRNOT00000025906.4	Ilk	ENSRNOG0000018993	integrin-linked kinase Source RGD Symbol Acc 620063
C08	UPFR1037768	ENSRNOT00000010106.4	Inhbe	ENSRNOG0000007601	inhibin subunit beta E Source RGD Symbol Acc 621196
C09	UPFR1017832	ENSRNOT00000086114.1	Itga1	ENSRNOG0000053550	integrin subunit alpha 1 Source RGD Symbol Acc 2923
C10	UPFR1068108	ENSRNOT00000077401.1	Itga2	ENSRNOG0000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1093170	005644.6	Itga3	000004276	integrin subunit alpha 3 Source RGD Symbol Acc 1310333
C12	UPFR1097241	ENSRNOT0000006961.7	Itgav	ENSRNOG0000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
D01	UPFR1091655	ENSRNOT00000014785.5	Itgb1	ENSRNOG0000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
D02	UPFR1016531	ENSRNOT00000073350.2	Itgb3	ENSRNOG0000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
D03	UPFR1088952	ENSRNOT00000076955.2	Itgb5	ENSRNOG0000001795	integrin subunit beta 5 Source RGD Symbol Acc 628869
D04	UPFR1069796	ENSRNOT00000011030.4	Itgb6	ENSRNOG0000008346	integrin subunit beta 6 Source RGD Symbol Acc 1303119
D05	UPFR1075510	ENSRNOT00000066545.1	Itgb8	ENSRNOG0000006569	integrin subunit beta 8 Source RGD Symbol Acc 1311374
D06	UPFR1037970	ENSRNOT00000011731.3	Jun	ENSRNOG0000026293	Jun proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2943
D07	UPFR1106429	ENSRNOT00000083881.1	Lox	ENSRNOG0000014426	lysyl oxidase Source RGD Symbol Acc 3015
D08	UPFR1061424	ENSRNOT00000047674.4	Ltbp1	ENSRNOG00000033090	latent transforming growth factor beta binding protein 1 Source RGD Symbol Acc 68379
D09	UPFR1099162	ENSRNOT00000011507.5	Mmp13	ENSRNOG0000008478	matrix metalloproteinase 13 Source RGD Symbol Acc 620196
D10	UPFR1097779	ENSRNOT00000075610.2	Mmp14	ENSRNOG0000010947	matrix metalloproteinase 14 Source RGD Symbol Acc 620198
D11	UPFR1101595	ENSRNOT00000012595.3	Mmp1	ENSRNOG00000032353	matrix metalloproteinase 1 Source RGD Symbol Acc 1307917
D12	UPFR1080151	ENSRNOT00000022679.6	Mmp2	ENSRNOG0000016695	matrix metalloproteinase 2 Source RGD Symbol Acc 621316
E01	UPFR1017988	ENSRNOT00000012310.6	Mmp3	ENSRNOG00000032626	matrix metalloproteinase 3 Source RGD Symbol Acc 621317
E02	UPFR1084685	ENSRNOT00000013936.3	Mmp8	ENSRNOG0000009907	matrix metalloproteinase 8 Source RGD Symbol Acc 631408
E03	UPFR1032957	ENSRNOT00000023965.3	Mmp9	ENSRNOG0000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
E04	UPFR1101439	ENSRNOT00000006188.5	Myc	ENSRNOG0000004500	MYC proto-oncogene, bHLH transcription factor Source RGD Symbol Acc 3130
E05	UPFR1116688	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
E06	UPFR1035905	ENSRNOT00000042117.6	Pdgfa	ENSRNOG0000001312	platelet derived growth factor subunit A Source RGD Symbol Acc 3282
E07	UPFR1088903	ENSRNOT00000023196.5	Pdgfb	ENSRNOG0000017197	platelet derived growth factor subunit B Source RGD Symbol Acc 3283
E08	UPFR1085291	ENSRNOT00000025763.6	Plat	ENSRNOG0000019018	plasminogen activator, tissue type Source RGD Symbol Acc 3342
E09	UPFR1088915	ENSRNOT00000014273.5	Plau	ENSRNOG0000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
E10	UPFR1070729	ENSRNOT00000023368.5	Plg	ENSRNOG0000017223	plasminogen Source RGD Symbol Acc 619893
E11	UPFR1050149	ENSRNOT00000089931.1	Serpina1	ENSRNOG0000032669	serpin family A member 1 Source RGD Symbol Acc 3326
E12	UPFR1051798	ENSRNOT00000001916.2	Serpine1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249
F01	UPFR1044270	ENSRNOT00000086091.1	Serpinh1	ENSRNOG0000016831	serpin family H member 1 Source RGD Symbol Acc 69302
F02	UPFR1057367	ENSRNOT00000046847.4	Smad2	ENSRNOG0000018140	SMAD family member 2 Source RGD Symbol Acc 3031
F03	UPFR1033812	ENSRNOT00000039730.4	Smad3	ENSRNOG0000008620	SMAD family member 3 Source RGD Symbol Acc 3032
F04	UPFR1022605	ENSRNOT00000082484.1	Smad4	ENSRNOG0000051965	SMAD family member 4 Source RGD Symbol Acc 3033
F05	UPFR1024934	ENSRNOT00000012155.7	Smad6	ENSRNOG0000009173	SMAD family member 6 Source RGD Symbol Acc 1305069
F06	UPFR1092772	ENSRNOT00000024831.4	Smad7	ENSRNOG0000018359	SMAD family member 7 Source RGD Symbol Acc 69314
F07	UPFR1119713	ENSRNOT00000077581.1	Snai1	ENSRNOG0000009594	snail family transcriptional repressor 1 Source RGD Symbol Acc 620758
F08	UPFR1092400	ENSRNOT00000019403.6	Sp1	ENSRNOG0000014084	Sp1 transcription factor Source RGD Symbol Acc 3738
F09	UPFR1068760	ENSRNOT00000083514.1	Stat1	ENSRNOG0000014079	signal transducer and activator of transcription 4 Source RGD Symbol Acc 1305747
F10	UPFR1082210	ENSRNOT00000085350.1	Stat6	ENSRNOG0000025023	signal transducer and activator of transcription 6 Source RGD Symbol Acc 1309063

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1103881	ENSRNOT00000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
F12	UPFR1046456	ENSRNOT00000087023.1	Tgfb2	ENSRNOG0000002418	transforming growth factor, beta 2 Source RGD Symbol Acc 70491
G01	UPFR1030751	ENSRNOT00000013516.5	Tgfb3	ENSRNOG0000009867	transforming growth factor, beta 3 Source RGD Symbol Acc 3851
G02	UPFR1035135	ENSRNOT00000081090.1	Tgfb1	ENSRNOG0000007036	transforming growth factor, beta receptor 1 Source RGD Symbol Acc 3852
G03	UPFR1107633	ENSRNOT00000037883.4	Tgfb2	ENSRNOG0000013265	transforming growth factor, beta receptor 2 Source RGD Symbol Acc 69651
G04	UPFR1059577	ENSRNOT00000021534.6	Tgif1	ENSRNOG0000015906	TGFB-induced factor homeobox 1 Source RGD Symbol Acc 1310517
G05	UPFR1104745	ENSRNOT00000083351.1	Thbs1	ENSRNOG0000045829	thrombospondin 1 Source RGD Symbol Acc 1588455
G06	UPFR1102771	ENSRNOT00000014552.7	Thbs2	ENSRNOG0000010529	thrombospondin 2 Source RGD Symbol Acc 1310979
G07	UPFR1060230	ENSRNOT00000013745.7	Timp1	ENSRNOG0000010208	TIMP metalloproteinase inhibitor 1 Source RGD Symbol Acc 621675
G08	UPFR1066754	ENSRNOT00000004290.4	Timp2	ENSRNOG0000003148	TIMP metalloproteinase inhibitor 2 Source RGD Symbol Acc 61312
G09	UPFR1107259	ENSRNOT00000005746.5	Timp3	ENSRNOG0000004303	TIMP metalloproteinase inhibitor 3 Source RGD Symbol Acc 3865
G10	UPFR1069231	ENSRNOT00000010748.3	Timp4	ENSRNOG0000007955	TIMP metalloproteinase inhibitor 4 Source RGD Symbol Acc 69077
G11	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G12	UPFR1117908	ENSRNOT00000026559.5	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
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.

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