

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

## Rat Wound Healing

Cat. no. 249955 UPRN-121ZA

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](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
<b>A</b>	Acta2	Actc1	Angpt1	Ccl12	Ccl7	Cd40lg	Cdh1	Col14a1	Col1a1	Col1a2	Col3a1	Col4a1
<b>B</b>	Col4a3	Col5a1	Col5a2	Col5a3	Csf2	Csf3	Ccn2	Ctnnb1	Ctsq	Ctsk	Ctsl	Cxcl1
<b>C</b>	Cxcl11	Cxcl3	Cxcl6	Egf	Egfr	F13a1	F3	Fga	Fgf10	Fgf2	Fgf7	Hbegf
<b>D</b>	Hgf	Ifng	Igf1	Il10	Il1b	Il2	Il4	Il6	Il6st	Itga1	Itga2	Itga3
<b>E</b>	Itga4	Itga5	Itga6	Itgav	Itgb1	Itgb3	Itgb5	Itgb6	Mapk1	Mapk3	LOC1036948 77	Mmp1
<b>F</b>	Mmp2	Mmp7	Mmp9	Pdgfra	Plat	Plau	Plaur	Plg	Pten	Ptgs2	Rac1	Rhoa
<b>G</b>	Serpine1	Stat3	Tagln	Tgfa	Tgfb1	Tgfb3	Timp1	LOC1036943 80	Vegfa	Vtn	Ccn4	Wnt5a
<b>H</b>	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	UPFR1012946	ENSRNOT00000011773.4	Actc1	ENSRNOG0000008536	actin, alpha, cardiac muscle 1 Source RGD Symbol Acc 2026
A03	UPFR1072829	ENSRNOT00000007979.6	Angpt1	ENSRNOG0000005854	angiopoietin 1 Source RGD Symbol Acc 628896
A04	UPFR1080637	ENSRNOT00000031626.5	Ccl12	ENSRNOG0000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
A05	UPFR1083626	ENSRNOT00000000256.4	Ccl7	ENSRNOG0000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
A06	UPFR1038741	ENSRNOT00000001162.4	Cd40lg	ENSRNOG0000000871	CD40 ligand Source RGD Symbol Acc 708418
A07	UPFR1037315	ENSRNOT00000027346.2	Cdh1	ENSRNOG0000020151	cadherin 1 Source RGD Symbol Acc 69279
A08	UPFR1100234	ENSRNOT00000067649.3	Col14a1	ENSRNOG0000026415	collagen type XIV alpha 1 chain Source RGD Symbol Acc 1305806
A09	UPFR1053469	ENSRNOT00000005311.6	Col1a1	ENSRNOG0000003897	collagen type I alpha 1 chain Source RGD Symbol Acc 61817
A10	UPFR1109083	ENSRNOT00000089292.1	Col1a2	ENSRNOG0000011292	collagen type I alpha 2 chain Source RGD Symbol Acc 621351
A11	UPFR1066020	ENSRNOT00000004956.4	Col3a1	ENSRNOG0000003357	collagen type III alpha 1 chain Source RGD Symbol Acc 71029
A12	UPFR1018897	ENSRNOT00000057386.2	Col4a1	ENSRNOG0000016281	collagen type IV alpha 1 chain Source RGD Symbol Acc 1307148
B01	UPFR1065434	ENSRNOT00000020669.5	Col4a3	ENSRNOG0000015365	collagen type IV alpha 3 chain Source RGD Symbol Acc 71085
B02	UPFR1087101	ENSRNOT00000012334.7	Col5a1	ENSRNOG0000008749	collagen type V alpha 1 chain Source RGD Symbol Acc 70920
B03	UPFR1054012	ENSRNOT00000005073.7	Col5a2	ENSRNOG0000003736	collagen type V alpha 2 chain Source RGD Symbol Acc 70921
B04	UPFR1066346	ENSRNOT00000027897.4	Col5a3	ENSRNOG0000020525	collagen type V alpha 3 chain Source RGD Symbol Acc 70922
B05	UPFR1084630	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
B06	UPFR1037448	ENSRNOT00000011509.3	Csf3	ENSRNOG0000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
B07	UPFR1047569	ENSRNOT00000089196.1	Ccn2	ENSRNOG0000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
B08	UPFR1057605	ENSRNOT00000079085.1	Ctnnb1	ENSRNOG0000054172	catenin beta 1 Source RGD Symbol Acc 70487
B09	UPFR1054610	ENSRNOT00000059677.2	Ctsg	ENSRNOG0000020647	cathepsin G Source RGD Symbol Acc 1307681
B10	UPFR1063624	ENSRNOT00000028730.6	Ctsk	ENSRNOG0000021155	cathepsin K Source RGD Symbol Acc 61810
B11	UPFR1115111	ENSRNOT00000025462.6	Ctsl	ENSRNOG0000018566	cathepsin L Source RGD Symbol Acc 2448
B12	UPFR1056296	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
C01	UPFR1033909	ENSRNOT00000031667.4	Cxcl11	ENSRNOG0000022298	C-X-C motif chemokine ligand 11 Source RGD Symbol Acc 727827
C02	UPFR1076775	ENSRNOT00000034090.3	Cxcl3	ENSRNOG0000028043	chemokine (C-X-C motif) ligand 3 Source RGD Symbol Acc 621812
C03	UPFR1109014	ENSRNOT00000003823.3	Cxcl6	ENSRNOG0000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
C04	UPFR1045222	ENSRNOT00000087007.1	Egf	ENSRNOG0000053979	epidermal growth factor Source RGD Symbol Acc 2542
C05	UPFR1091984	ENSRNOT00000006087.2	Egfr	ENSRNOG0000004332	epidermal growth factor receptor Source RGD Symbol Acc 2543
C06	UPFR1047082	ENSRNOT00000021568.4	F13a1	ENSRNOG0000015957	coagulation factor XIII A1 chain Source RGD Symbol Acc 621495
C07	UPFR1038904	ENSRNOT00000015836.5	F3	ENSRNOG0000011800	coagulation factor III, tissue factor Source RGD Symbol Acc 2587
C08	UPFR1114837	ENSRNOT00000064091.3	Fga	ENSRNOG0000024848	fibrinogen alpha chain Source RGD Symbol Acc 2603
C09	UPFR1048435	ENSRNOT00000016485.3	Fgf10	ENSRNOG0000012278	fibroblast growth factor 10 Source RGD Symbol Acc 2606
C10	UPFR1033121	ENSRNOT00000023388.5	Fgf2	ENSRNOG0000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1021146	012700.4	Fgf7	000009425	fibroblast growth factor 7 Source RGD Symbol Acc 61805
C12	UPFR1043686	ENSRNOT00000 025157.6	Hbegf	ENSRNOG00 000018646	heparin-binding EGF-like growth factor Source RGD Symbol Acc 2526
D01	UPFR1076642	ENSRNOT00000 009763.5	Hgf	ENSRNOG00 000007027	hepatocyte growth factor Source RGD Symbol Acc 2794
D02	UPFR1084134	ENSRNOT00000 009919.2	lfng	ENSRNOG00 000007468	interferon gamma Source RGD Symbol Acc 2866
D03	UPFR1050099	ENSRNOT00000 038780.6	lgf1	ENSRNOG00 000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
D04	UPFR1113235	ENSRNOT00000 006246.5	Il10	ENSRNOG00 000004647	interleukin 10 Source RGD Symbol Acc 2886
D05	UPFR1121351	ENSRNOT00000 006308.4	Il1b	ENSRNOG00 000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D06	UPFR1070791	ENSRNOT00000 023327.2	Il2	ENSRNOG00 000017348	interleukin 2 Source RGD Symbol Acc 620047
D07	UPFR1099283	ENSRNOT00000 010029.3	Il4	ENSRNOG00 000007624	interleukin 4 Source RGD Symbol Acc 2898
D08	UPFR1098910	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D09	UPFR1023505	ENSRNOT00000 018877.7	Il6st	ENSRNOG00 000013963	interleukin 6 signal transducer Source RGD Symbol Acc 2903
D10	UPFR1017832	ENSRNOT00000 086114.1	Itga1	ENSRNOG00 000053550	integrin subunit alpha 1 Source RGD Symbol Acc 2923
D11	UPFR1068108	ENSRNOT00000 077401.1	Itga2	ENSRNOG00 000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
D12	UPFR1093170	ENSRNOT00000 005644.6	Itga3	ENSRNOG00 000004276	integrin subunit alpha 3 Source RGD Symbol Acc 1310333
E01	UPFR1097667	ENSRNOT00000 006880.6	Itga4	ENSRNOG00 000004861	integrin subunit alpha 4 Source RGD Symbol Acc 1593249
E02	UPFR1023329	ENSRNOT00000 087748.1	Itga5	ENSRNOG00 000057451	integrin subunit alpha 5 Source RGD Symbol Acc 2925
E03	UPFR1020634	ENSRNOT00000 002075.4	Itga6	ENSRNOG00 000001518	integrin subunit alpha 6 Source RGD Symbol Acc 621633
E04	UPFR1097241	ENSRNOT00000 006961.7	Itgav	ENSRNOG00 000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
E05	UPFR1091655	ENSRNOT00000 014785.5	Itgb1	ENSRNOG00 000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
E06	UPFR1016531	ENSRNOT00000 073350.2	Itgb3	ENSRNOG00 000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
E07	UPFR1088952	ENSRNOT00000 076955.2	Itgb5	ENSRNOG00 000001795	integrin subunit beta 5 Source RGD Symbol Acc 628869
E08	UPFR1069796	ENSRNOT00000 011030.4	Itgb6	ENSRNOG00 000008346	integrin subunit beta 6 Source RGD Symbol Acc 1303119
E09	UPFR1055882	ENSRNOT00000 002533.7	Mapk1	ENSRNOG00 000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
E10	UPFR1049954	ENSRNOT00000 087625.1	Mapk3	ENSRNOG00 000053583	mitogen activated protein kinase 3 Source RGD Symbol Acc 3046
E11	UPFR1126542	ENSRNOT00000 008608.4	LOC10369 4877	ENSRNOG00 000006589	macrophage migration inhibitory factor Source RGD Symbol Acc 621163
E12	UPFR1101595	ENSRNOT00000 012595.3	Mmp1	ENSRNOG00 000032353	matrix metalloproteinase 1 Source RGD Symbol Acc 1307917
F01	UPFR1080151	ENSRNOT00000 022679.6	Mmp2	ENSRNOG00 000016695	matrix metalloproteinase 2 Source RGD Symbol Acc 621316
F02	UPFR1034539	ENSRNOT00000 014041.5	Mmp7	ENSRNOG00 000010507	matrix metalloproteinase 7 Source RGD Symbol Acc 3100
F03	UPFR1032957	ENSRNOT00000 023965.3	Mmp9	ENSRNOG00 000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
F04	UPFR1035905	ENSRNOT00000 042117.6	Pdgfa	ENSRNOG00 000001312	platelet derived growth factor subunit A Source RGD Symbol Acc 3282
F05	UPFR1085291	ENSRNOT00000 025763.6	Plat	ENSRNOG00 000019018	plasminogen activator, tissue type Source RGD Symbol Acc 3342
F06	UPFR1088915	ENSRNOT00000 014273.5	Plau	ENSRNOG00 000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
F07	UPFR1041940	ENSRNOT00000 075167.3	Plaur	ENSRNOG00 000037931	plasminogen activator, urokinase receptor Source RGD Symbol Acc 620597
F08	UPFR1070729	ENSRNOT00000 023368.5	Plg	ENSRNOG00 000017223	plasminogen Source RGD Symbol Acc 619893
F09	UPFR1043890	ENSRNOT00000 028143.3	Pten	ENSRNOG00 000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
F10	UPFR1035449	ENSRNOT00000 003567.4	Ptgs2	ENSRNOG00 000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1019271	ENSRNOT00000001417.5	Rac1	ENSRNOG0000001068	Rac family small GTPase 1 Source RGD Symbol Acc 619755
F12	UPFR1119707	ENSRNOT00000071664.2	Rhoa	ENSRNOG0000050519	ras homolog family member A Source RGD Symbol Acc 619921
G01	UPFR1051798	ENSRNOT00000001916.2	Serpine1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249
G02	UPFR1040072	ENSRNOT00000026760.4	Stat3	ENSRNOG0000019742	signal transducer and activator of transcription 3 Source RGD Symbol Acc 3772
G03	UPFR1042915	ENSRNOT000000081737.1	Tagln	ENSRNOG0000017628	transgelin Source RGD Symbol Acc 3723
G04	UPFR1060818	ENSRNOT000000057441.4	Tgfa	ENSRNOG0000016182	transforming growth factor alpha Source RGD Symbol Acc 3849
G05	UPFR1103881	ENSRNOT000000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G06	UPFR1058624	ENSRNOT00000002867.4	Tgfb3	ENSRNOG0000002093	transforming growth factor beta receptor 3 Source RGD Symbol Acc 61821
G07	UPFR1060230	ENSRNOT000000013745.7	Timp1	ENSRNOG0000010208	TIMP metalloproteinase inhibitor 1 Source RGD Symbol Acc 621675
G08	UPFR1098022	ENSRNOT000000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G09	UPFR1117908	ENSRNOT000000026559.5	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G10	UPFR1105823	ENSRNOT000000039954.5	Vtn	ENSRNOG0000010031	vitronectin Source RGD Symbol Acc 3967
G11	UPFR1109359	ENSRNOT000000009673.7	Ccn4	ENSRNOG0000007078	cellular communication network factor 4 Source RGD Symbol Acc 69431
G12	UPFR1100946	ENSRNOT000000021164.3	Wnt5a	ENSRNOG0000015618	Wnt family member 5A Source RGD Symbol Acc 69250
H01	UPFR1132952	ENSRNOT000000080216.1	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT000000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT000000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT000000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT000000018820.5	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 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 $\mu$ l QuantiNova Probe RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ 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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