

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

## Rat NFkB Signaling Targets

Cat. no. 249955 UPRN-225ZA

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 x 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
A	Adm	Agt	Akt1	Aldh3a2	Bcl2a1	Bcl2l1	Birc2	Birc3	C3	C4a	Ccl11	Ccl12
B	Ccl22	Ccl5	Ccnd1	Ccr5	Cd40	Cd74	Cd80	Cd83	Cdkn1a	Cfb	Csf1	Csf2
C	Csf2rb	Csf3	Cxcl1	Cxcl10	Cxcl3	Cxcl9	Egrfr	Egr2	F3	F8	Fos	Faslg
D	Gadd45b	Icam1	Ifnb1	Ifng	Il12b	Il15	Il1a	Il1b	Il1r2	Il1rn	Il2	Il2ra
E	Il4	Il6	Ins2	Irfl	Ita	LOC103694381	Map2k6	Mif	Mmp9	Myc	Myd88	Ncoa3
F	Nfkb1	Nfkb2	Nfkbia	Nqo1	Nr4a2	Pdgfb	Pfau	Ptgs2	Rel	Rela	Sele	Selp
G	Snap25	Sod2	Stat1	Stat3	Stat5b	LOC103694380	Tnfrsf1b	Tnfrsf10	Tp53	Traf2	Vcam1	Xiap
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	Q1C	Q1C	Q1C	PPC	PPC	PPC

## Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFR1061154	ENSRNOT00000 036718.1	Adm	ENSRNOG00 000027030	adrenomedullin Source RGD Symbol Acc 2047
A02	UPFR1049261	ENSRNOT00000 024917.4	Agt	ENSRNOG00 000018445	angiotensinogen Source RGD Symbol Acc 2069
A03	UPFR1083196	ENSRNOT00000 031164.3	Akt1	ENSRNOG00 000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A04	UPFR1037207	ENSRNOT00000 066109.3	Aldh3a2	ENSRNOG00 000002342	aldehyde dehydrogenase 3 family, member A2 Source RGD Symbol Acc 61866
A05	UPFR1064713	ENSRNOT00000 039850.3	Bcl2a1	ENSRNOG00 000047606	BCL2-related protein A1 Source RGD Symbol Acc 620621
A06	UPFR1047186	ENSRNOT00000 010762.7	Bcl2l1	ENSRNOG00 000007946	Bcl2-like 1 Source RGD Symbol Acc 2200
A07	UPFR1050093	ENSRNOT00000 014560.6	Birc2	ENSRNOG00 000010602	baculoviral IAP repeat-containing 2 Source RGD Symbol Acc 620690
A08	UPFR1015683	ENSRNOT00000 007702.7	Birc3	ENSRNOG00 000005731	baculoviral IAP repeat-containing 3 Source RGD Symbol Acc 621282
A09	UPFR1069924	ENSRNOT00000 075494.1	C3	ENSRNOG00 000046834	complement C3 Source RGD Symbol Acc 2232
A10	UPFR1033991	ENSRNOT00000 072377.2	C4a	ENSRNOG00 000047657	complement C4A Source RGD Symbol Acc 620005
A11	UPFR1034165	ENSRNOT00000 009756.5	Ccl11	ENSRNOG00 000007335	C-C motif chemokine ligand 11 Source RGD Symbol Acc 3644
A12	UPFR1080637	ENSRNOT00000 031626.5	Ccl12	ENSRNOG00 000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
B01	UPFR1070569	ENSRNOT00000 022167.3	Ccl22	ENSRNOG00 000016535	C-C motif chemokine ligand 22 Source RGD Symbol Acc 619933
B02	UPFR1019085	ENSRNOT00000 014865.6	Ccl5	ENSRNOG00 000010906	C-C motif chemokine ligand 5 Source RGD Symbol Acc 69069
B03	UPFR1042457	ENSRNOT00000 088588.1	Ccnd1	ENSRNOG00 000020918	cyclin D1 Source RGD Symbol Acc 68384
B04	UPFR1023768	ENSRNOT00000 082774.1	Ccr5	ENSRNOG00 000049115	C-C motif chemokine receptor 5 Source RGD Symbol Acc 620596
B05	UPFR1023025	ENSRNOT00000 055148.4	Cd40	ENSRNOG00 000018488	CD40 molecule Source RGD Symbol Acc 619830
B06	UPFR1021207	ENSRNOT00000 025354.7	Cd74	ENSRNOG00 000018735	CD74 molecule Source RGD Symbol Acc 2313
B07	UPFR1064878	ENSRNOT00000 089625.1	Cd80	ENSRNOG00 000001527	Cd80 molecule Source RGD Symbol Acc 2314
B08	UPFR1076542	ENSRNOT00000 024458.5	Cd83	ENSRNOG00 000018092	CD83 molecule Source RGD Symbol Acc 1309677
B09	UPFR1028644	ENSRNOT00000 091731.1	Cdkn1a	ENSRNOG00 000000521	cyclin-dependent kinase inhibitor 1A Source RGD Symbol Acc 69328
B10	UPFR1097207	ENSRNOT00000 075928.2	Cfb	ENSRNOG00 000000419	complement factor B Source RGD Symbol Acc 2204
B11	UPFR1022984	ENSRNOT00000 081835.1	Csf1	ENSRNOG00 000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
B12	UPFR1084630	ENSRNOT00000 032333.3	Csf2	ENSRNOG00 000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
C01	UPFR1094813	ENSRNOT00000 000203.5	Csf2rb	ENSRNOG00 000000187	colony stimulating factor 2 receptor beta common subunit Source RGD Symbol Acc 620189
C02	UPFR1037448	ENSRNOT00000 011509.3	Csf3	ENSRNOG00 000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
C03	UPFR1056296	ENSRNOT00000 003778.3	Cxcl1	ENSRNOG00 000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
C04	UPFR1049597	ENSRNOT00000 003075.7	Cxcl10	ENSRNOG00 000022256	C-X-C motif chemokine ligand 10 Source RGD Symbol Acc 620209
C05	UPFR1076775	ENSRNOT00000 034090.3	Cxcl3	ENSRNOG00 000028043	chemokine (C-X-C motif) ligand 3 Source RGD Symbol Acc 621812
C06	UPFR1089821	ENSRNOT00000 003082.7	Cxcl9	ENSRNOG00 000022242	C-X-C motif chemokine ligand 9 Source RGD Symbol Acc 628798
C07	UPFR1091984	ENSRNOT00000 006087.2	Egrf	ENSRNOG00 000004332	epidermal growth factor receptor Source RGD Symbol Acc 2543
C08	UPFR1023028	ENSRNOT00000 000792.4	Egr2	ENSRNOG00 000000640	early growth response 2 Source RGD Symbol Acc 621608
C09	UPFR1038904	ENSRNOT00000 015836.5	F3	ENSRNOG00 000011800	coagulation factor III, tissue factor Source RGD Symbol Acc 2587
C10	UPFR1073371	ENSRNOT00000 045926.4	F8	ENSRNOG00 000031197	coagulation factor VIII Source RGD Symbol Acc 727845
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1075141	025928.5	Fas	ENSRNOG000019142	Fas cell surface death receptor Source RGD Symbol Acc 619831
C12	UPFR1108356	ENSRNOT0000003998.2	Faslg	ENSRNOG000002978	Fas ligand Source RGD Symbol Acc 3880
D01	UPFR1054309	ENSRNOT00000026871.4	Gadd45b	ENSRNOG000019822	growth arrest and DNA-damage-inducible, beta Source RGD Symbol Acc 1309080
D02	UPFR1031281	ENSRNOT00000028066.5	Icam1	ENSRNOG0000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
D03	UPFR1098156	ENSRNOT00000008224.2	Ifnb1	ENSRNOG000006268	interferon beta 1 Source RGD Symbol Acc 2865
D04	UPFR1084134	ENSRNOT00000009919.2	Ifng	ENSRNOG000007468	interferon gamma Source RGD Symbol Acc 2866
D05	UPFR1060283	ENSRNOT00000005898.6	Il12b	ENSRNOG000004380	interleukin 12B Source RGD Symbol Acc 628704
D06	UPFR1102147	ENSRNOT000000044590.6	Il15	ENSRNOG000003439	interleukin 15 Source RGD Symbol Acc 2887
D07	UPFR1066959	ENSRNOT000000080818.1	Il1a	ENSRNOG000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
D08	UPFR1121351	ENSRNOT00000006308.4	Il1b	ENSRNOG000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D09	UPFR1058134	ENSRNOT000000019415.5	Il1r2	ENSRNOG000014378	interleukin 1 receptor type 2 Source RGD Symbol Acc 621147
D10	UPFR1086251	ENSRNOT00000007949.6	Il1rn	ENSRNOG000005871	interleukin 1 receptor antagonist Source RGD Symbol Acc 621159
D11	UPFR1070791	ENSRNOT000000023327.2	Il2	ENSRNOG000017348	interleukin 2 Source RGD Symbol Acc 620047
D12	UPFR1114337	ENSRNOT000000073144.2	Il2ra	ENSRNOG000047647	interleukin 2 receptor subunit alpha Source RGD Symbol Acc 2895
E01	UPFR1099283	ENSRNOT000000010029.3	Il4	ENSRNOG000007624	interleukin 4 Source RGD Symbol Acc 2898
E02	UPFR1098910	ENSRNOT000000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
E03	UPFR1114751	ENSRNOT000000027656.3	Ins2	ENSRNOG000020405	insulin 2 Source RGD Symbol Acc 2916
E04	UPFR1043289	ENSRNOT000000010968.6	Irf1	ENSRNOG000008144	interferon regulatory factor 1 Source RGD Symbol Acc 2920
E05	UPFR1116910	ENSRNOT000000088936.1	Lta	ENSRNOG000000838	lymphotoxin alpha Source RGD Symbol Acc 3020
E06	UPFR1050435	ENSRNOT000000089411.1	LOC103694381	ENSRNOG0000058566	lymphotoxin-beta Source RGD Symbol Acc 9083628
E07	UPFR1098004	ENSRNOT00000006217.6	Map2k6	ENSRNOG000004437	mitogen-activated protein kinase kinase 6 Source RGD Symbol Acc 620666
E08	UPFR1057784	ENSRNOT000000083127.1	Mif	ENSRNOG000008658	melanocyte inducing transcription factor Source RGD Symbol Acc 3092
E09	UPFR1032957	ENSRNOT000000023965.3	Mmp9	ENSRNOG000017539	matrix metallopeptidase 9 Source RGD Symbol Acc 621320
E10	UPFR1101439	ENSRNOT00000006188.5	Myc	ENSRNOG000004500	MYC proto-oncogene, bHLH transcription factor Source RGD Symbol Acc 3130
E11	UPFR1120879	ENSRNOT000000018341.5	Myd88	ENSRNOG0000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
E12	UPFR1072465	ENSRNOT00000007768.7	Ncoa3	ENSRNOG000005616	nuclear receptor coactivator 3 Source RGD Symbol Acc 620109
F01	UPFR1116688	ENSRNOT000000036838.4	Nfkb1	ENSRNOG000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
F02	UPFR1025860	ENSRNOT000000026235.3	Nfkb2	ENSRNOG0000019311	nuclear factor kappa B subunit 2 Source RGD Symbol Acc 1307189
F03	UPFR1024664	ENSRNOT000000009894.6	Nfkbia	ENSRNOG0000007390	NFKB inhibitor alpha Source RGD Symbol Acc 3171
F04	UPFR1111217	ENSRNOT000000017174.5	Nqo1	ENSRNOG000012772	NAD(P)H quinone dehydrogenase 1 Source RGD Symbol Acc 2503
F05	UPFR1088324	ENSRNOT000000078001.1	Nr4a2	ENSRNOG000005600	nuclear receptor subfamily 4, group A, member 2 Source RGD Symbol Acc 3202
F06	UPFR1088903	ENSRNOT000000023196.5	Pdgfb	ENSRNOG000017197	platelet derived growth factor subunit B Source RGD Symbol Acc 3283
F07	UPFR1088915	ENSRNOT000000014273.5	Plau	ENSRNOG0000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
F08	UPFR1035449	ENSRNOT000000003567.4	Ptg52	ENSRNOG000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
F09	UPFR1066569	ENSRNOT000000081077.1	Rel	ENSRNOG000054437	REL proto-oncogene, NF-kB subunit Source RGD Symbol Acc 1311231
F10	UPFR1070877	ENSRNOT000000045233.3	Rela	ENSRNOG000030888	RELA proto-oncogene, NF-kB subunit Source RGD Symbol Acc 727889

<b>Position</b>	<b>Assay</b>	<b>Name</b>	<b>Symbol</b>	<b>Ensembl ID</b>	<b>Description</b>
F11	UPFR1029154	ENSRNOT00000 030677.3	Sele	ENSRNOG00 000002723	selectin E Source RGD Symbol Acc 3654
F12	UPFR1033299	ENSRNOT00000 076879.2	Selp	ENSRNOG00 000002794	selectin P Source RGD Symbol Acc 3656
G01	UPFR1107645	ENSRNOT00000 007998.7	Snap25	ENSRNOG00 000006037	synaptosomal-associated protein 25 Source MGI Symbol Acc MGI 98331
G02	UPFR1090502	ENSRNOT00000 025794.4	Sod2	ENSRNOG00 000019048	superoxide dismutase 2 Source RGD Symbol Acc 3732
G03	UPFR1068760	ENSRNOT00000 083514.1	Stat1	ENSRNOG00 000014079	signal transducer and activator of transcription 4 Source RGD Symbol Acc 1305747
G04	UPFR1040072	ENSRNOT00000 026760.4	Stat3	ENSRNOG00 000019742	signal transducer and activator of transcription 3 Source RGD Symbol Acc 3772
G05	UPFR1050387	ENSRNOT00000 026354.3	Stat5b	ENSRNOG00 000019075	signal transducer and activator of transcription 5B Source RGD Symbol Acc 3774
G06	UPFR1098022	ENSRNOT00000 079677.1	LOC10369 4380	ENSRNOG00 000051516	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G07	UPFR1064277	ENSRNOT00000 022478.4	Tnfrsf1b	ENSRNOG00 000016575	TNF receptor superfamily member 1B Source RGD Symbol Acc 621238
G08	UPFR1107113	ENSRNOT00000 017758.5	Tnfsf10	ENSRNOG00 000013269	TNF superfamily member 10 Source RGD Symbol Acc 628734
G09	UPFR1095007	ENSRNOT00000 085115.1	Tp53	ENSRNOG00 000010756	tumor protein p53 Source RGD Symbol Acc 3889
G10	UPFR1056890	ENSRNOT00000 008253.6	Traf2	ENSRNOG00 000006238	Tnf receptor-associated factor 2 Source RGD Symbol Acc 1310457
G11	UPFR1101375	ENSRNOT00000 019377.5	Vcam1	ENSRNOG00 000014333	vascular cell adhesion molecule 1 Source RGD Symbol Acc 3952
G12	UPFR1049285	ENSRNOT00000 009336.3	Xiap	ENSRNOG00 000006967	X-linked inhibitor of apoptosis Source RGD Symbol Acc 620692
H01	UPFR1132952	ENSRNOT00000 080216.1	Actb	ENSRNOG00 000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000 023017.5	B2m	ENSRNOG00 000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000 065935.3	Hprt1	ENSRNOG00 000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000 017468.2	Ldha	ENSRNOG00 000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000 018820.5	Rplp1	ENSRNOG00 000013874	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.

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