

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

## Rat Inflammasomes

Cat. no. 249955 UPRN-097ZA

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>	Bcl2	Bcl2l1	Birc2	Birc3	Card6	Casp1	Casp12	Casp8	Ccl11	Ccl12	Ccl2	Ccl5
<b>B</b>	Ccl7	Cd40lg	Cflar	Chuk	Ciita	Ctsb	Cxcl1	Cxcl3	Fadd	Hsp90aa1	Hsp90ab1	Hsp90b1
<b>C</b>	Ifnb1	Ifng	Ikbkb	Ikbkg	Il12a	Il12b	Il18	Il1b	Il33	Il6	Irak1	Irf1
<b>D</b>	Irf2	Irf3	Irf4	Irf5	Irf6	LOC1009107 71	Tab1	Tab2	Mapk1	Mapk11	Mapk12	Mapk13
<b>E</b>	Mapk14	Mapk3	Mapk8	Mapk9	Mefv	Myd88	AC135826.1	Nfkb1	Nfkbia	Nfkbib	Nlrc4	Nlrp12
<b>F</b>	Nlrp1a	Nlrp3	Nlrp5	Nlrp6	Nlrp1	Nod2	P2rx7	Panx1	Pea15	Ptpp1p1	Pigs2	Pycard
<b>G</b>	Mok	Rela	Ripk2	Sugt1	Tirap	LOC1036943 80	LOC1036899 74	Tnfrsf14	Tnfrsf4	Traf6	Txnip	Xiap
<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	UPFR1082998	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A02	UPFR1047186	ENSRNOT00000010762.7	Bcl2l1	ENSRNOG0000007946	Bcl2-like 1 Source RGD Symbol Acc 2200
A03	UPFR1050093	ENSRNOT00000014560.6	Birc2	ENSRNOG0000010602	baculoviral IAP repeat-containing 2 Source RGD Symbol Acc 620690
A04	UPFR1015683	ENSRNOT00000007702.7	Birc3	ENSRNOG0000005731	baculoviral IAP repeat-containing 3 Source RGD Symbol Acc 621282
A05	UPFR1030933	ENSRNOT00000039057.3	Card6	ENSRNOG0000001271	caspase recruitment domain family, member 6 Source RGD Symbol Acc 1305805
A06	UPFR1052168	ENSRNOT00000009993.6	Casp1	ENSRNOG0000007372	caspase 1 Source RGD Symbol Acc 2274
A07	UPFR1089128	ENSRNOT00000088553.1	Casp12	ENSRNOG0000033434	caspase 12 Source RGD Symbol Acc 621758
A08	UPFR1030636	ENSRNOT00000016613.4	Casp8	ENSRNOG0000012331	caspase 8 Source RGD Symbol Acc 620945
A09	UPFR1034165	ENSRNOT00000009756.5	Ccl11	ENSRNOG0000007335	C-C motif chemokine ligand 11 Source RGD Symbol Acc 3644
A10	UPFR1080637	ENSRNOT00000031626.5	Ccl12	ENSRNOG0000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
A11	UPFR1014050	ENSRNOT00000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
A12	UPFR1019085	ENSRNOT00000014865.6	Ccl5	ENSRNOG0000010906	C-C motif chemokine ligand 5 Source RGD Symbol Acc 69069
B01	UPFR1083626	ENSRNOT00000000256.4	Ccl7	ENSRNOG000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
B02	UPFR1038741	ENSRNOT00000001162.4	Cd40lg	ENSRNOG0000000871	CD40 ligand Source RGD Symbol Acc 708418
B03	UPFR1108095	ENSRNOT00000016730.5	Cflar	ENSRNOG0000012473	CASP8 and FADD-like apoptosis regulator Source RGD Symbol Acc 620847
B04	UPFR1110725	ENSRNOT00000030782.4	Chuk	ENSRNOG0000022485	conserved helix-loop-helix ubiquitous kinase Source RGD Symbol Acc 1306661
B05	UPFR1117820	ENSRNOT00000085479.1	Ciita	ENSRNOG0000002659	class II, major histocompatibility complex, transactivator Source RGD Symbol Acc 619813
B06	UPFR1121227	ENSRNOT00000014177.5	Ctsb	ENSRNOG0000010331	cathepsin B Source RGD Symbol Acc 621509
B07	UPFR1056296	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
B08	UPFR1076775	ENSRNOT00000034090.3	Cxcl3	ENSRNOG0000028043	chemokine (C-X-C motif) ligand 3 Source RGD Symbol Acc 621812
B09	UPFR1101946	ENSRNOT00000075089.3	Fadd	ENSRNOG0000047035	Fas associated via death domain Source RGD Symbol Acc 628700
B10	UPFR1014170	ENSRNOT00000086310.1	Hsp90aa1	ENSRNOG0000059714	heat shock protein 90 alpha family class A member 1 Source RGD Symbol Acc 631409
B11	UPFR1172895	ENSRNOT00000086986.1	Hsp90ab1	ENSRNOG0000019834	heat shock protein 90 alpha family class B member 1 Source RGD Symbol Acc 1303075
B12	UPFR1020204	ENSRNOT00000079731.1	Hsp90b1	ENSRNOG0000026963	heat shock protein 90 beta family member 1 Source RGD Symbol Acc 1310482
C01	UPFR1098156	ENSRNOT00000008224.2	Ifnb1	ENSRNOG0000006268	interferon beta 1 Source RGD Symbol Acc 2865
C02	UPFR1084134	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
C03	UPFR1104220	ENSRNOT00000025851.4	Ikbbk	ENSRNOG0000019073	inhibitor of nuclear factor kappa B kinase subunit beta Source RGD Symbol Acc 621375
C04	UPFR1033544	ENSRNOT00000078438.1	Ikbgk	ENSRNOG0000060936	inhibitor of nuclear factor kappa B kinase subunit gamma Source RGD Symbol Acc 735223
C05	UPFR1065603	ENSRNOT00000012831.3	Il12a	ENSRNOG0000009468	interleukin 12A Source RGD Symbol Acc 620562
C06	UPFR1060283	ENSRNOT00000005898.6	Il12b	ENSRNOG0000004380	interleukin 12B Source RGD Symbol Acc 628704
C07	UPFR1053861	ENSRNOT00000013093.6	Il18	ENSRNOG0000009848	interleukin 18 Source RGD Symbol Acc 2889
C08	UPFR1121351	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
C09	UPFR1088661	ENSRNOT00000022056.7	Il33	ENSRNOG0000016456	interleukin 33 Source RGD Symbol Acc 1311155
C10	UPFR1098910	ENSRNOT00000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1054336	092207.1	Irak1	000060869	interleukin-1 receptor-associated kinase 1 Source RGD Symbol Acc 1563841
C12	UPFR1043289	ENSRNOT00000 010968.6	Irf1	ENSRNOG00 000008144	interferon regulatory factor 1 Source RGD Symbol Acc 2920
D01	UPFR1026836	ENSRNOT00000 013118.6	Irf2	ENSRNOG00 000009824	interferon regulatory factor 2 Source RGD Symbol Acc 1304922
D02	UPFR1094379	ENSRNOT00000 027786.6	Irf3	ENSRNOG00 000043388	interferon regulatory factor 3 Source RGD Symbol Acc 1549774
D03	UPFR1026456	ENSRNOT00000 088931.1	Irf4	ENSRNOG00 000061070	interferon regulatory factor 4 Source RGD Symbol Acc 1308050
D04	UPFR1052261	ENSRNOT00000 010001.6	Irf5	ENSRNOG00 000007437	interferon regulatory factor 5 Source RGD Symbol Acc 1310447
D05	UPFR1093131	ENSRNOT00000 007333.4	Irf6	ENSRNOG00 000005082	interferon regulatory factor 6 Source RGD Symbol Acc 1309645
D06	UPFR1103973	ENSRNOT00000 007654.5	LOC10091 0771	ENSRNOG00 000005724	mitogen-activated protein kinase kinase kinase 7-like Source RGD Symbol Acc 6496502
D07	UPFR1110113	ENSRNOT00000 067904.3	Tab1	ENSRNOG00 000017285	TGF-beta activated kinase 1/MAP3K7 binding protein 1 Source RGD Symbol Acc 1306216
D08	UPFR1057592	ENSRNOT00000 021905.6	Tab2	ENSRNOG00 000016054	TGF-beta activated kinase 1/MAP3K7 binding protein 2 Source RGD Symbol Acc 1309527
D09	UPFR1055882	ENSRNOT00000 002533.7	Mapk1	ENSRNOG00 000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
D10	UPFR1074404	ENSRNOT00000 009325.6	Mapk11	ENSRNOG00 000006984	mitogen-activated protein kinase 11 Source RGD Symbol Acc 1309340
D11	UPFR1079036	ENSRNOT00000 044376.4	Mapk12	ENSRNOG00 000031233	mitogen-activated protein kinase 12 Source RGD Symbol Acc 70975
D12	UPFR1029556	ENSRNOT00000 000621.6	Mapk13	ENSRNOG00 000000515	mitogen activated protein kinase 13 Source RGD Symbol Acc 3045
E01	UPFR1036984	ENSRNOT00000 000617.8	Mapk14	ENSRNOG00 000000513	mitogen activated protein kinase 14 Source RGD Symbol Acc 70496
E02	UPFR1049954	ENSRNOT00000 087625.1	Mapk3	ENSRNOG00 000053583	mitogen activated protein kinase 3 Source RGD Symbol Acc 3046
E03	UPFR1048766	ENSRNOT00000 065216.3	Mapk8	ENSRNOG00 000020155	mitogen-activated protein kinase 8 Source RGD Symbol Acc 621506
E04	UPFR1038865	ENSRNOT00000 083688.1	Mapk9	ENSRNOG00 000002823	mitogen-activated protein kinase 9 Source RGD Symbol Acc 628847
E05	UPFR1047560	ENSRNOT00000 081191.1	Mefv	ENSRNOG00 000008134	MEFV, pyrin innate immunity regulator Source RGD Symbol Acc 61889
E06	UPFR1120879	ENSRNOT00000 018341.5	Myd88	ENSRNOG00 000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
E07	UPFR1031972	ENSRNOT00000 072926.3	AC135826. 1	ENSRNOG00 000033693	NLR family, apoptosis inhibitory protein 2 Source MGI Symbol Acc MGI 1298226
E08	UPFR1116688	ENSRNOT00000 036838.4	Nfkb1	ENSRNOG00 000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
E09	UPFR1024664	ENSRNOT00000 009894.6	Nfkbia	ENSRNOG00 000007390	NFKB inhibitor alpha Source RGD Symbol Acc 3171
E10	UPFR1013391	ENSRNOT00000 027212.5	Nfkbib	ENSRNOG00 000020063	NFKB inhibitor beta Source RGD Symbol Acc 621887
E11	UPFR1110959	ENSRNOT00000 007655.7	Nlrc4	ENSRNOG00 000005810	NLR family, CARD domain containing 4 Source RGD Symbol Acc 1309831
E12	UPFR1080389	ENSRNOT00000 086331.1	Nlrp12	ENSRNOG00 000060745	NLR family, pyrin domain containing 12 Source RGD Symbol Acc 1309415
F01	UPFR1017279	ENSRNOT00000 037546.6	Nlrp1a	ENSRNOG00 000023143	NLR family, pyrin domain containing 1A Source RGD Symbol Acc 1310963
F02	UPFR1036618	ENSRNOT00000 004280.5	Nlrp3	ENSRNOG00 000003170	NLR family, pyrin domain containing 3 Source RGD Symbol Acc 1308314
F03	UPFR1051626	ENSRNOT00000 041542.4	Nlrp5	ENSRNOG00 000022994	NLR family, pyrin domain containing 5 Source RGD Symbol Acc 1307446
F04	UPFR1050754	ENSRNOT00000 050551.5	Nlrp6	ENSRNOG00 000045677	NLR family, pyrin domain containing 6 Source RGD Symbol Acc 708549
F05	UPFR1039347	ENSRNOT00000 077958.1	Nlrx1	ENSRNOG00 000052386	NLR family member X1 Source RGD Symbol Acc 1311293
F06	UPFR1045696	ENSRNOT00000 065103.2	Nod2	ENSRNOG00 000014124	nucleotide-binding oligomerization domain containing 2 Source RGD Symbol Acc 1306368
F07	UPFR1059236	ENSRNOT00000 079201.1	P2rx7	ENSRNOG00 000001296	purinergic receptor P2X 7 Source RGD Symbol Acc 3241
F08	UPFR1020342	ENSRNOT00000 013577.5	Panx1	ENSRNOG00 000010060	Pannexin 1 Source RGD Symbol Acc 735204
F09	UPFR1065343	ENSRNOT00000 070812.1	Pea15	ENSRNOG00 000046996	proliferation and apoptosis adaptor protein 15 Source RGD Symbol Acc 1306055
F10	UPFR1014210	ENSRNOT00000 063930.2	Pstpip1	ENSRNOG00 000016413	proline-serine-threonine phosphatase-interacting protein 1 Source RGD Symbol Acc 1307557

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1035449	ENSRNOT00000003567.4	Ptgs2	ENSRNOG0000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
F12	UPFR1097767	ENSRNOT00000026699.4	Pycard	ENSRNOG0000019675	PYD and CARD domain containing Source RGD Symbol Acc 628637
G01	UPFR1046438	ENSRNOT00000088986.1	Mok	ENSRNOG0000007850	MOK protein kinase Source RGD Symbol Acc 1309274
G02	UPFR1070877	ENSRNOT00000045233.3	Rela	ENSRNOG0000030888	RELA proto-oncogene, NF-kB subunit Source RGD Symbol Acc 727889
G03	UPFR1074419	ENSRNOT00000012963.5	Ripk2	ENSRNOG0000009389	receptor-interacting serine-threonine kinase 2 Source RGD Symbol Acc 1309167
G04	UPFR1097417	ENSRNOT00000017086.7	Sugt1	ENSRNOG0000012594	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone Source RGD Symbol Acc 1307550
G05	UPFR1091338	ENSRNOT00000038312.5	Tirap	ENSRNOG0000021420	TIR domain containing adaptor protein Source RGD Symbol Acc 1595496
G06	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G07	UPFR1105006	ENSRNOT00000049056.4	LOC103689974	ENSRNOG0000049547	TNF superfamily member 11 Source RGD Symbol Acc 620784
G08	UPFR1025657	ENSRNOT00000074247.1	Tnfsf14	ENSRNOG0000047730	TNF superfamily member 14 Source RGD Symbol Acc 1588572
G09	UPFR1107619	ENSRNOT00000003969.5	Tnfsf4	ENSRNOG0000002968	TNF superfamily member 4 Source RGD Symbol Acc 619816
G10	UPFR1106871	ENSRNOT00000006148.5	Traf6	ENSRNOG0000004639	TNF receptor associated factor 6 Source RGD Symbol Acc 1306853
G11	UPFR1099909	ENSRNOT00000028793.6	Txnip	ENSRNOG0000021201	thioredoxin interacting protein Source RGD Symbol Acc 620886
G12	UPFR1049285	ENSRNOT00000009336.3	Xiap	ENSRNOG0000006967	X-linked inhibitor of apoptosis Source RGD Symbol Acc 620692
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 $\mu$ 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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