

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

Rat NFkB Signaling Pathway

Cat. no. 249955 UPRN-025ZA

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 for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Agf	Akt1	Aif1	Aif2	Bcl10	Bcl2a1	Bcl2l1	Bcl3	Birc3	Card10	AABR0703547 0.1	Casp1
B	Casp8	Ccl2	Ccl5	Ccl40	Ctlar	Chuk	Crebbp	Csf1	Csf2	Csf3	Egfr	Egr1
C	Eif2ak2	F2r	Fadd	Faslg	Fos	Hmox1	Icam1	Ifna5	Ifng	Ilkbkb	Ilkbe	Ilkbg
D	Il10	Il1a	Il1b	Il1r1	Irak1	Irak2	Irak4	Irf1	Jun	Traf1	Lta	Ltbr
E	Map2k3	Map3k1	Mapk3	Myd88	Nfkb1	Nfkb2	Nfkbia	AABR0706618 0.1	Psip1	Raf1	Rel	Rela
F	Ripk1	Ripk2	Smad4	Stat1	Tbk1	Timp1	Tlr1	Tlr2	Tlr3	Tlr4	Tlr6	Tlr9
G	LOC1036943 80	AABR0701832 3.1	Tnfrsf1a	Tnfrsf1b	Tnfrsf10	Tnfrsf14	Tollip	Tradd	Traf2	Traf3	Traf6	Zap70
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	UPFR1049261	ENSRNOT00000024917.4	Agt	ENSRNOG0000018445	angiotensinogen Source RGD Symbol Acc 2069
A02	UPFR1083196	ENSRNOT00000031164.3	Akt1	ENSRNOG0000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A03	UPFR1117151	ENSRNOT00000079011.1	Aif1	ENSRNOG0000061088	activating transcription factor 1 Source RGD Symbol Acc 1307360
A04	UPFR1067157	ENSRNOT00000002174.7	Aif2	ENSRNOG0000001597	activating transcription factor 2 Source RGD Symbol Acc 621862
A05	UPFR1104210	ENSRNOT00000019911.6	Bcl10	ENSRNOG0000042389	BCL10, immune signaling adaptor Source RGD Symbol Acc 620544
A06	UPFR1064713	ENSRNOT00000039850.3	Bcl2a1	ENSRNOG0000047606	BCL2-related protein A1 Source RGD Symbol Acc 620621
A07	UPFR1047186	ENSRNOT00000010762.7	Bcl2l1	ENSRNOG0000007946	Bcl2-like 1 Source RGD Symbol Acc 2200
A08	UPFR1035458	ENSRNOT00000025913.6	Bcl3	ENSRNOG0000043416	BCL3, transcription coactivator Source RGD Symbol Acc 1589465
A09	UPFR1015683	ENSRNOT00000007702.7	Birc3	ENSRNOG0000005731	baculoviral IAP repeat-containing 3 Source RGD Symbol Acc 621282
A10	UPFR1118327	ENSRNOT00000077677.1	Card10	ENSRNOG0000008401	caspase recruitment domain family, member 10 Source RGD Symbol Acc 1304949
A11	UPFR1086893	ENSRNOT00000051382.6	AABR07035470.1	ENSRNOG0000024277	caspase recruitment domain family, member 11 Source NCBI gene Acc 100363332
A12	UPFR1052168	ENSRNOT00000009993.6	Casp1	ENSRNOG0000007372	caspase 1 Source RGD Symbol Acc 2274
B01	UPFR1030636	ENSRNOT00000016613.4	Casp8	ENSRNOG0000012331	caspase 8 Source RGD Symbol Acc 620945
B02	UPFR1014050	ENSRNOT00000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
B03	UPFR1019085	ENSRNOT00000014865.6	Ccl5	ENSRNOG0000010906	C-C motif chemokine ligand 5 Source RGD Symbol Acc 69069
B04	UPFR1023025	ENSRNOT00000055148.4	Cd40	ENSRNOG0000018488	CD40 molecule Source RGD Symbol Acc 619830
B05	UPFR1108095	ENSRNOT00000016730.5	Cflar	ENSRNOG0000012473	CASP8 and FADD-like apoptosis regulator Source RGD Symbol Acc 620847
B06	UPFR1110725	ENSRNOT00000030782.4	Chuk	ENSRNOG0000022485	conserved helix-loop-helix ubiquitous kinase Source RGD Symbol Acc 1306661
B07	UPFR1058705	ENSRNOT00000007079.5	Crebbp	ENSRNOG0000005330	CREB binding protein Source RGD Symbol Acc 2401
B08	UPFR1022984	ENSRNOT000000081835.1	Csf1	ENSRNOG0000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
B09	UPFR1084630	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
B10	UPFR1037448	ENSRNOT00000011509.3	Csf3	ENSRNOG0000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
B11	UPFR1091984	ENSRNOT00000006087.2	Egfr	ENSRNOG0000004332	epidermal growth factor receptor Source RGD Symbol Acc 2543
B12	UPFR1034050	ENSRNOT00000026303.4	Egr1	ENSRNOG0000019422	early growth response 1 Source RGD Symbol Acc 2544
C01	UPFR1062762	ENSRNOT00000072810.2	Eif2ak2	ENSRNOG0000048315	eukaryotic translation initiation factor 2-alpha kinase 2 Source RGD Symbol Acc 3402
C02	UPFR1094290	ENSRNOT00000074626.2	F2r	ENSRNOG0000048043	coagulation factor II (thrombin) receptor Source RGD Symbol Acc 2586
C03	UPFR1101946	ENSRNOT00000075089.3	Fadd	ENSRNOG0000047035	Fas associated via death domain Source RGD Symbol Acc 628700
C04	UPFR1108356	ENSRNOT00000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
C05	UPFR1045359	ENSRNOT00000010712.3	Fos	ENSRNOG0000008015	Fos proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2626
C06	UPFR1040868	ENSRNOT00000019192.6	Hmx1	ENSRNOG0000014117	heme oxygenase 1 Source RGD Symbol Acc 2806
C07	UPFR1031281	ENSRNOT00000028066.5	Icam1	ENSRNOG0000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
C08	UPFR1014391	ENSRNOT00000049705.1	Ifna5	ENSRNOG0000031046	interferon, alpha 5 Source RGD Symbol Acc 1359312
C09	UPFR1084134	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
C10	UPFR1104220	ENSRNOT00000025851.4	Ikbkb	ENSRNOG0000019073	inhibitor of nuclear factor kappa B kinase subunit beta Source RGD Symbol Acc 621375
		ENSRNOT000000		ENSRNOG00	inhibitor of nuclear factor kappa B kinase subunit epsilon Source RGD Symbol

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1033982	038151.3	Ikake	000025100	Acc 1308352
C12	UPFR1033544	ENSRNOT00000078438.1	Ikakg	ENSRNOG0000060936	inhibitor of nuclear factor kappa B kinase subunit gamma Source RGD Symbol Acc 735223
D01	UPFR1113235	ENSRNOT00000006246.5	Il10	ENSRNOG0000004647	interleukin 10 Source RGD Symbol Acc 2886
D02	UPFR1066959	ENSRNOT00000080818.1	Il1a	ENSRNOG0000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
D03	UPFR1121351	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D04	UPFR1025024	ENSRNOT00000082146.1	Il1r1	ENSRNOG0000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D05	UPFR1054336	ENSRNOT00000092207.1	Ilak1	ENSRNOG0000060869	interleukin-1 receptor-associated kinase 1 Source RGD Symbol Acc 1563841
D06	UPFR1064642	ENSRNOT00000029819.4	Ilak2	ENSRNOG0000021817	interleukin-1 receptor-associated kinase 2 Source RGD Symbol Acc 1309584
D07	UPFR1084131	ENSRNOT00000007932.5	Ilak4	ENSRNOG000005965	interleukin-1 receptor-associated kinase 4 Source RGD Symbol Acc 1305303
D08	UPFR1043289	ENSRNOT00000010968.6	Ilr1	ENSRNOG0000008144	interferon regulatory factor 1 Source RGD Symbol Acc 2920
D09	UPFR1037970	ENSRNOT00000011731.3	Jun	ENSRNOG0000026293	Jun proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2943
D10	UPFR1059379	ENSRNOT00000072400.2	Traf1	ENSRNOG0000048914	TNF receptor-associated factor 1 Source RGD Symbol Acc 1596290
D11	UPFR1116910	ENSRNOT00000088936.1	Lta	ENSRNOG0000000838	lymphotoxin alpha Source RGD Symbol Acc 3020
D12	UPFR1014666	ENSRNOT00000026184.4	Ltr	ENSRNOG0000019264	lymphotoxin beta receptor Source RGD Symbol Acc 1309448
E01	UPFR1058261	ENSRNOT00000073792.2	Map2k3	ENSRNOG0000049132	mitogen activated protein kinase kinase 3 Source RGD Symbol Acc 1306620
E02	UPFR1044671	ENSRNOT00000017968.3	Map3k1	ENSRNOG0000013177	mitogen-activated protein kinase kinase kinase 1 Source RGD Symbol Acc 620966
E03	UPFR1049954	ENSRNOT00000087625.1	Mapk3	ENSRNOG0000053583	mitogen activated protein kinase 3 Source RGD Symbol Acc 3046
E04	UPFR1120879	ENSRNOT00000018341.5	Myd88	ENSRNOG0000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
E05	UPFR1116688	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
E06	UPFR1025860	ENSRNOT00000026235.3	Nfkb2	ENSRNOG0000019311	nuclear factor kappa B subunit 2 Source RGD Symbol Acc 1307189
E07	UPFR1024664	ENSRNOT00000009894.6	Nfkbia	ENSRNOG0000007390	NFKB inhibitor alpha Source RGD Symbol Acc 3171
E08	UPFR1095920	ENSRNOT00000061882.4	AABR07066180.1	ENSRNOG0000011871	
E09	UPFR1080686	ENSRNOT00000082239.1	Psip1	ENSRNOG0000011498	PC4 and SFRS1 interacting protein 1 Source RGD Symbol Acc 631439
E10	UPFR1087799	ENSRNOT00000013831.6	Raf1	ENSRNOG0000010153	Raf-1 proto-oncogene, serine/threonine kinase Source RGD Symbol Acc 3531
E11	UPFR1066569	ENSRNOT00000081077.1	Rel	ENSRNOG0000054437	REL proto-oncogene, NF-kB subunit Source RGD Symbol Acc 1311231
E12	UPFR1070877	ENSRNOT00000045233.3	Rela	ENSRNOG0000030888	RELA proto-oncogene, NF-kB subunit Source RGD Symbol Acc 727889
F01	UPFR1111177	ENSRNOT00000023962.5	Ripk1	ENSRNOG0000017787	receptor interacting serine/threonine kinase 1 Source RGD Symbol Acc 1310158
F02	UPFR1074419	ENSRNOT00000012963.5	Ripk2	ENSRNOG0000009389	receptor-interacting serine-threonine kinase 2 Source RGD Symbol Acc 1309167
F03	UPFR1022605	ENSRNOT00000082484.1	Smad4	ENSRNOG0000051965	SMAD family member 4 Source RGD Symbol Acc 3033
F04	UPFR1068760	ENSRNOT00000083514.1	Stat1	ENSRNOG0000014079	signal transducer and activator of transcription 4 Source RGD Symbol Acc 1305747
F05	UPFR1076485	ENSRNOT00000009260.5	Tbk1	ENSRNOG0000055528	TANK-binding kinase 1 Source RGD Symbol Acc 1588588
F06	UPFR1060230	ENSRNOT00000013745.7	Timp1	ENSRNOG0000010208	TIMP metalloproteinase inhibitor 1 Source RGD Symbol Acc 621675
F07	UPFR1066076	ENSRNOT00000059124.3	Tlr1	ENSRNOG0000038722	toll-like receptor 1 Source MGI Symbol Acc MGI 1341295
F08	UPFR1061984	ENSRNOT00000013025.4	Tlr2	ENSRNOG0000009822	toll-like receptor 2 Source RGD Symbol Acc 735138
F09	UPFR1036867	ENSRNOT00000087986.1	Tlr3	ENSRNOG0000021726	toll-like receptor 3 Source RGD Symbol Acc 735171
F10	UPFR1020675	ENSRNOT00000014020.3	Tlr4	ENSRNOG0000010522	toll-like receptor 4 Source RGD Symbol Acc 3870

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1064975	ENSRNOT0000002933.5	Tlr6	ENSRNOG0000002161	toll-like receptor 6 Source RGD Symbol Acc 1303030
F12	UPFR1099903	ENSRNOT00000074194.1	Tlr9	ENSRNOG00000048161	toll-like receptor 9 Source RGD Symbol Acc 631352
G01	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG00000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G02	UPFR1016844	ENSRNOT00000066128.4	AABR07018323.1	ENSRNOG00000038483	
G03	UPFR1079067	ENSRNOT00000048529.4	Tnfrsf1a	ENSRNOG00000031312	TNF receptor superfamily member 1A Source RGD Symbol Acc 621237
G04	UPFR1064277	ENSRNOT00000022478.4	Tnfrsf1b	ENSRNOG00000016575	TNF receptor superfamily member 1B Source RGD Symbol Acc 621238
G05	UPFR1107113	ENSRNOT00000017758.5	Tnfsf10	ENSRNOG00000013269	TNF superfamily member 10 Source RGD Symbol Acc 628734
G06	UPFR1025657	ENSRNOT00000074247.1	Tnfsf14	ENSRNOG00000047730	TNF superfamily member 14 Source RGD Symbol Acc 1588572
G07	UPFR1079309	ENSRNOT00000046344.3	Tollip	ENSRNOG00000019861	toll interacting protein Source RGD Symbol Acc 1304676
G08	UPFR1034627	ENSRNOT00000020405.6	Tradd	ENSRNOG00000015179	TNFRSF1A-associated via death domain Source RGD Symbol Acc 621313
G09	UPFR1056890	ENSRNOT00000008253.6	Traf2	ENSRNOG0000006238	Tnf receptor-associated factor 2 Source RGD Symbol Acc 1310457
G10	UPFR1120299	ENSRNOT00000077770.1	Traf3	ENSRNOG00000008145	Tnf receptor-associated factor 3 Source RGD Symbol Acc 1304633
G11	UPFR1106871	ENSRNOT00000006148.5	Traf6	ENSRNOG00000004639	TNF receptor associated factor 6 Source RGD Symbol Acc 1306853
G12	UPFR1048040	ENSRNOT00000023036.7	Zap70	ENSRNOG00000016995	zeta chain of T cell receptor associated protein kinase 70 Source RGD Symbol Acc 3983
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG00000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG00000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG00000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG00000013874	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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