

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

Rat TNF Signaling Pathway

Cat. no. 249955 UPRN-063ZR

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	Agf1	Apaf1	Arhgdib	Bag4	Bcl2	Bid	Cad	Casp2	Casp3	Casp8	Cd27	Cd40
B	Cd40lg	Cd70	Cflar	Chuk	Cycs	Dffa	Dusp1	Fadd	Faf1	Fas	Faslg	Fbf1
C	Elp1	Ikbkb	Ikbkg	Jun	Lmna	Lmnb1	Lta	LOC1036943 81	Libr	Madd	Map2k4	Map3k1
D	Map3k14	LOC1009107 71	Tab1	Mapk8	Nfkb1	Nfkbia	Ngfr	Bex3	Pak1	LOC1009107 32	Parp1	Pglyrp1
E	Prkdc	Psmg2	Rb1	Relt	Ripk1	Splan1	Tank	LOC1036943 80	AABR0701832 3.1	Tnfrsf11b	Tnfrsf12a	Tnfrsf13c
F	Tnfrsf14	Tnfrsf17	Tnfrsf1a	Tnfrsf1b	Tnfrsf21	Tnfrsf25	Tnfrsf4	Tnfrsf8	Tnfrsf9	Tnfrsf10	LOC1036899 74	Tnfrsf12
G	Tnfrsf13	Tnfrsf14	Tnfrsf15	Tnfrsf18	Tnfrsf4	Tnfrsf9	Tradd	Traf2	Traf3	Traf4	Traf6	Traf7
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	UPFR1114913	ENSRNOT00000021309.7	Agfg1	ENSRNOG0000015619	ArfGAP with FG repeats 1 Source RGD Symbol Acc 1560041
A02	UPFR1031240	ENSRNOT00000010869.6	Apaf1	ENSRNOG0000008022	apoptotic peptidase activating factor 1 Source RGD Symbol Acc 620575
A03	UPFR1040661	ENSRNOT00000007779.7	Arhgdib	ENSRNOG0000005809	Rho GDP dissociation inhibitor beta Source RGD Symbol Acc 1305383
A04	UPFR1030593	ENSRNOT00000066901.3	Bag4	ENSRNOG0000042560	BCL2-associated athanogene 4 Source MGI Symbol Acc MGI 1914634
A05	UPFR1082998	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A06	UPFR1018136	ENSRNOT00000016776.2	Bid	ENSRNOG0000012439	BH3 interacting domain death agonist Source RGD Symbol Acc 620160
A07	UPFR1067630	ENSRNOT00000039709.6	Cad	ENSRNOG0000026474	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase Source RGD Symbol Acc 1588606
A08	UPFR1065838	ENSRNOT00000022543.5	Casp2	ENSRNOG0000016707	caspase 2 Source RGD Symbol Acc 69274
A09	UPFR1091664	ENSRNOT00000014095.5	Casp3	ENSRNOG0000010475	caspase 3 Source RGD Symbol Acc 2275
A10	UPFR1030636	ENSRNOT00000016613.4	Casp8	ENSRNOG0000012331	caspase 8 Source RGD Symbol Acc 620945
A11	UPFR1061083	ENSRNOT00000038023.4	Cd27	ENSRNOG0000027466	CD27 molecule Source RGD Symbol Acc 1560499
A12	UPFR1023025	ENSRNOT00000055148.4	Cd40	ENSRNOG0000018488	CD40 molecule Source RGD Symbol Acc 619830
B01	UPFR1038741	ENSRNOT00000001162.4	Cd40lg	ENSRNOG0000000871	CD40 ligand Source RGD Symbol Acc 708418
B02	UPFR1090606	ENSRNOT00000070806.1	Cd70	ENSRNOG0000051015	Cd70 molecule Source RGD Symbol Acc 1588573
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	UPFR1019082	ENSRNOT00000014058.7	Cycc	ENSRNOG0000010452	cytochrome c, somatic-like Source RGD Symbol Acc 2322845
B06	UPFR1092379	ENSRNOT00000089179.1	Dffa	ENSRNOG0000013603	DNA fragmentation factor subunit alpha Source RGD Symbol Acc 620334
B07	UPFR1053812	ENSRNOT00000005383.5	Dusp1	ENSRNOG0000003977	dual specificity phosphatase 1 Source RGD Symbol Acc 620897
B08	UPFR1101946	ENSRNOT00000075089.3	Fadd	ENSRNOG0000047035	Fas associated via death domain Source RGD Symbol Acc 628700
B09	UPFR1065513	ENSRNOT00000011765.6	Faf1	ENSRNOG0000008523	Fas associated factor 1 Source RGD Symbol Acc 70987
B10	UPFR1075141	ENSRNOT00000025928.5	Fas	ENSRNOG0000019142	Fas cell surface death receptor Source RGD Symbol Acc 619831
B11	UPFR1108356	ENSRNOT00000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
B12	UPFR1074328	ENSRNOT00000011560.8	Fbf1	ENSRNOG0000008577	Fas binding factor 1 Source RGD Symbol Acc 1310662
C01	UPFR1075425	ENSRNOT00000022836.5	Elp1	ENSRNOG0000016725	elongator complex protein 1 Source RGD Symbol Acc 620072
C02	UPFR1104220	ENSRNOT00000025851.4	Ikbbk	ENSRNOG0000019073	inhibitor of nuclear factor kappa B kinase subunit beta Source RGD Symbol Acc 621375
C03	UPFR1033544	ENSRNOT00000078438.1	Ikkg	ENSRNOG0000060936	inhibitor of nuclear factor kappa B kinase subunit gamma Source RGD Symbol Acc 735223
C04	UPFR1037970	ENSRNOT00000011731.3	Jun	ENSRNOG0000026293	Jun proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2943
C05	UPFR1040557	ENSRNOT00000026705.6	Lmna	ENSRNOG0000019638	lamin A/C Source RGD Symbol Acc 620456
C06	UPFR1037053	ENSRNOT00000019351.5	Lmnbl	ENSRNOG0000013774	lamin B1 Source RGD Symbol Acc 620522
C07	UPFR1116910	ENSRNOT00000088936.1	Lta	ENSRNOG0000000838	lymphotoxin alpha Source RGD Symbol Acc 3020
C08	UPFR1050435	ENSRNOT00000089411.1	LOC103694381	ENSRNOG0000058566	lymphotoxin-beta Source RGD Symbol Acc 9083628
C09	UPFR1014666	ENSRNOT00000026184.4	Ltbr	ENSRNOG0000019264	lymphotoxin beta receptor Source RGD Symbol Acc 1309448
C10	UPFR1112171	ENSRNOT00000079394.1	Madd	ENSRNOG0000012568	MAP-kinase activating death domain Source RGD Symbol Acc 619922
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1096951	005293.7	Map2k4	000003834	mitogen activated protein kinase kinase 4 Source RGD Symbol Acc 1307040
C12	UPFR1044671	ENSRNOT00000017968.3	Map3k1	ENSRNOG0000013177	mitogen-activated protein kinase kinase 1 Source RGD Symbol Acc 620966
D01	UPFR1106042	ENSRNOT00000004532.5	Map3k14	ENSRNOG0000003278	mitogen-activated protein kinase kinase kinase 14 Source RGD Symbol Acc 1310487
D02	UPFR1103973	ENSRNOT00000007654.5	LOC100910771	ENSRNOG0000005724	mitogen-activated protein kinase kinase kinase 7-like Source RGD Symbol Acc 6496502
D03	UPFR1110113	ENSRNOT00000067904.3	Tab1	ENSRNOG0000017285	TGF-beta activated kinase 1/MAP3K7 binding protein 1 Source RGD Symbol Acc 1306216
D04	UPFR1048766	ENSRNOT00000065216.3	Mapk8	ENSRNOG0000020155	mitogen-activated protein kinase 8 Source RGD Symbol Acc 621506
D05	UPFR1116688	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
D06	UPFR1024664	ENSRNOT00000009894.6	Nfkbia	ENSRNOG0000007390	NFKB inhibitor alpha Source RGD Symbol Acc 3171
D07	UPFR1048810	ENSRNOT00000007268.3	Ngfr	ENSRNOG0000005392	nerve growth factor receptor Source RGD Symbol Acc 3177
D08	UPFR1091953	ENSRNOT00000045997.4	Bex3	ENSRNOG0000028822	brain expressed X-linked 3 Source RGD Symbol Acc 3148
D09	UPFR1066459	ENSRNOT00000091952.1	Pak1	ENSRNOG0000029784	p21 (RAC1) activated kinase 1 Source RGD Symbol Acc 3250
D10	UPFR1033705	ENSRNOT00000071060.2	LOC100910732	ENSRNOG0000048597	p21 (RAC1) activated kinase 2 Source RGD Symbol Acc 61953
D11	UPFR1022638	ENSRNOT00000004232.5	Parp1	ENSRNOG0000003084	poly (ADP-ribose) polymerase 1 Source RGD Symbol Acc 2053
D12	UPFR1052792	ENSRNOT00000018233.3	Pglyrp1	ENSRNOG0000013395	peptidoglycan recognition protein 1 Source RGD Symbol Acc 621429
E01	UPFR1035960	ENSRNOT00000035247.7	Prkdc	ENSRNOG0000025028	protein kinase, DNA-activated, catalytic subunit Source RGD Symbol Acc 1308982
E02	UPFR1096537	ENSRNOT00000024126.7	Psmg2	ENSRNOG0000017729	proteasome assembly chaperone 2 Source RGD Symbol Acc 1304867
E03	UPFR1039430	ENSRNOT00000021752.5	Rb1	ENSRNOG0000016029	RB transcriptional corepressor 1 Source RGD Symbol Acc 3540
E04	UPFR1096068	ENSRNOT00000077661.1	Relt	ENSRNOG0000025075	RELt, TNF receptor Source RGD Symbol Acc 1305381
E05	UPFR1111177	ENSRNOT00000023962.5	Ripk1	ENSRNOG0000017787	receptor interacting serine/threonine kinase 1 Source RGD Symbol Acc 1310158
E06	UPFR1028773	ENSRNOT00000082672.1	Sptan1	ENSRNOG0000015396	spectrin, alpha, non-erythrocytic 1 Source RGD Symbol Acc 621714
E07	UPFR1032361	ENSRNOT00000081682.1	Tank	ENSRNOG0000008859	TRAF family member-associated NFKB activator Source RGD Symbol Acc 628859
E08	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
E09	UPFR1016844	ENSRNOT00000066128.4	AABR07018323.1	ENSRNOG0000038483	
E10	UPFR1015258	ENSRNOT00000011344.5	Tnfrsf11b	ENSRNOG0000008336	TNF receptor superfamily member 11B Source RGD Symbol Acc 619802
E11	UPFR1074434	ENSRNOT00000004842.5	Tnfrsf12a	ENSRNOG0000003546	TNF receptor superfamily member 12A Source RGD Symbol Acc 631329
E12	UPFR1057483	ENSRNOT00000056037.3	Tnfrsf13c	ENSRNOG0000007664	TNF receptor superfamily member 13C Source RGD Symbol Acc 1560810
F01	UPFR1038022	ENSRNOT00000018494.5	Tnfrsf14	ENSRNOG0000013820	TNF receptor superfamily member 14 Source RGD Symbol Acc 1310115
F02	UPFR1028691	ENSRNOT00000035886.5	Tnfrsf17	ENSRNOG0000021987	TNF receptor superfamily member 17 Source RGD Symbol Acc 1304703
F03	UPFR1079067	ENSRNOT00000048529.4	Tnfrsf1a	ENSRNOG0000031312	TNF receptor superfamily member 1A Source RGD Symbol Acc 621237
F04	UPFR1064277	ENSRNOT00000022478.4	Tnfrsf1b	ENSRNOG0000016575	TNF receptor superfamily member 1B Source RGD Symbol Acc 621238
F05	UPFR1073026	ENSRNOT00000015918.5	Tnfrsf21	ENSRNOG0000011517	TNF receptor superfamily member 21 Source RGD Symbol Acc 1307308
F06	UPFR1024276	ENSRNOT00000055466.2	Tnfrsf25	ENSRNOG0000021814	TNF receptor superfamily member 25 Source RGD Symbol Acc 1598206
F07	UPFR1097673	ENSRNOT00000027251.4	Tnfrsf4	ENSRNOG0000020106	TNF receptor superfamily member 4 Source RGD Symbol Acc 3920
F08	UPFR1119781	ENSRNOT00000022968.4	Tnfrsf8	ENSRNOG0000016782	TNF receptor superfamily member 8 Source RGD Symbol Acc 3879
F09	UPFR1073203	ENSRNOT00000055506.4	Tnfrsf9	ENSRNOG0000036942	TNF receptor superfamily member 9 Source RGD Symbol Acc 1598208
F10	UPFR1107113	ENSRNOT00000017758.5	Tnfsf10	ENSRNOG0000013269	TNF superfamily member 10 Source RGD Symbol Acc 628734

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1105006	ENSRNOT00000049056.4	LOC103689974	ENSRNOG00000049547	TNF superfamily member 11 Source RGD Symbol Acc 620784
F12	UPFR1096999	ENSRNOT00000064401.2	Tnfsf12	ENSRNOG00000045670	TNF superfamily member 12 Source RGD Symbol Acc 1359620
G01	UPFR1092546	ENSRNOT00000056903.3	Tnfsf13	ENSRNOG0000014171	TNF superfamily member 13 Source RGD Symbol Acc 1305871
G02	UPFR1025657	ENSRNOT00000074247.1	Tnfsf14	ENSRNOG00000047730	TNF superfamily member 14 Source RGD Symbol Acc 1588572
G03	UPFR1094917	ENSRNOT00000011845.3	Tnfsf15	ENSRNOG00000008930	TNF superfamily member 15 Source RGD Symbol Acc 628735
G04	UPFR1080447	ENSRNOT00000039221.5	Tnfsf18	ENSRNOG0000026607	TNF superfamily member 18 Source RGD Symbol Acc 1305066
G05	UPFR1107619	ENSRNOT00000003969.5	Tnfsf4	ENSRNOG0000002968	TNF superfamily member 4 Source RGD Symbol Acc 619816
G06	UPFR1097440	ENSRNOT00000071515.1	Tnfsf9	ENSRNOG00000045595	TNF superfamily member 9 Source RGD Symbol Acc 727974
G07	UPFR1034627	ENSRNOT00000020405.6	Tradd	ENSRNOG0000015179	TNFRSF1A-associated via death domain Source RGD Symbol Acc 621313
G08	UPFR1056890	ENSRNOT00000008253.6	Traf2	ENSRNOG0000006238	Tnf receptor-associated factor 2 Source RGD Symbol Acc 1310457
G09	UPFR1120299	ENSRNOT00000077770.1	Traf3	ENSRNOG0000008145	Tnf receptor-associated factor 3 Source RGD Symbol Acc 1304633
G10	UPFR1099567	ENSRNOT00000018468.5	Traf4	ENSRNOG0000013169	Tnf receptor associated factor 4 Source RGD Symbol Acc 1306708
G11	UPFR1106871	ENSRNOT00000006148.5	Traf6	ENSRNOG00000004639	TNF receptor associated factor 6 Source RGD Symbol Acc 1306853
G12	UPFR1088116	ENSRNOT00000004192.4	Traf7	ENSRNOG0000003131	TNF receptor associated factor 7 Source RGD Symbol Acc 1559653
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG00000034254	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	ENSRNOG00000048561	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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