

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

Rat TNF Signaling Pathway

Cat. no. 249950 SBRN-063ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA PCR System Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Agfg1	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	Ikbbk	Ikbbk	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 PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBR1172934	ENSRNOT00000021309.7	Agfg1	ENSRNOG0000015619	ArfGAP with FG repeats 1 Source RGD Symbol Acc 1560041
A02	SBR1126753	ENSRNOT00000010869.6	Apaf1	ENSRNOG0000008022	apoptotic peptidase activating factor 1 Source RGD Symbol Acc 620575
A03	SBR1138007	ENSRNOT00000007779.7	Arhgdib	ENSRNOG0000005809	Rho GDP dissociation inhibitor beta Source RGD Symbol Acc 1305383
A04	SBR1199175	ENSRNOT00000066901.3	Bag4	ENSRNOG0000042560	BCL2-associated athanogene 4 Source MGI Symbol Acc MGI 1914634
A05	SBR1170984	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A06	SBR1147619	ENSRNOT00000016776.2	Bid	ENSRNOG0000012439	BH3 interacting domain death agonist Source RGD Symbol Acc 620160
A07	SBR1172746	ENSRNOT00000039709.6	Cad	ENSRNOG0000026474	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase Source RGD Symbol Acc 1588606
A08	SBR1206768	ENSRNOT00000022543.5	Casp2	ENSRNOG0000016707	caspase 2 Source RGD Symbol Acc 69274
A09	SBR1123217	ENSRNOT00000014095.5	Casp3	ENSRNOG0000010475	caspase 3 Source RGD Symbol Acc 2275
A10	SBR1182801	ENSRNOT00000016613.4	Casp8	ENSRNOG0000012331	caspase 8 Source RGD Symbol Acc 620945
A11	SBR1134297	ENSRNOT00000038023.4	Cd27	ENSRNOG0000027466	CD27 molecule Source RGD Symbol Acc 1560499
A12	SBR1146998	ENSRNOT00000055148.4	Cd40	ENSRNOG0000018488	CD40 molecule Source RGD Symbol Acc 619830
B01	SBR1110042	ENSRNOT00000001162.4	Cd40lg	ENSRNOG0000000871	CD40 ligand Source RGD Symbol Acc 708418
B02	SBR1113183	ENSRNOT000000070806.1	Cd70	ENSRNOG00000051015	Cd70 molecule Source RGD Symbol Acc 1588573
B03	SBR1105415	ENSRNOT00000016730.5	Cflar	ENSRNOG0000012473	CASP8 and FADD-like apoptosis regulator Source RGD Symbol Acc 620847
B04	SBR1132111	ENSRNOT00000030782.4	Chuk	ENSRNOG0000022485	conserved helix-loop-helix ubiquitous kinase Source RGD Symbol Acc 1306661
B05	SBR1142435	ENSRNOT00000014058.7	Cycc	ENSRNOG0000010452	cytochrome c, somatic-like Source RGD Symbol Acc 2322845
B06	SBR1134760	ENSRNOT00000059522.2	Dffa	ENSRNOG0000013603	DNA fragmentation factor subunit alpha Source RGD Symbol Acc 620334
B07	SBR1102337	ENSRNOT00000005383.5	Dusp1	ENSRNOG0000003977	dual specificity phosphatase 1 Source RGD Symbol Acc 620897
B08	SBR1202965	ENSRNOT000000075089.3	Fadd	ENSRNOG0000047035	Fas associated via death domain Source RGD Symbol Acc 628700
B09	SBR1125231	ENSRNOT00000011765.6	Faf1	ENSRNOG0000008523	Fas associated factor 1 Source RGD Symbol Acc 70987
B10	SBR1159525	ENSRNOT00000025928.5	Fas	ENSRNOG0000019142	Fas cell surface death receptor Source RGD Symbol Acc 619831
B11	SBR1097457	ENSRNOT00000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
B12	SBR1162675	ENSRNOT00000011560.8	Fbf1	ENSRNOG0000008577	Fas binding factor 1 Source RGD Symbol Acc 1310662
C01	SBR1160446	ENSRNOT00000022836.5	Elp1	ENSRNOG0000016725	elongator complex protein 1 Source RGD Symbol Acc 620072
C02	SBR1133299	ENSRNOT00000025851.4	Ikbbk	ENSRNOG0000019073	inhibitor of nuclear factor kappa B kinase subunit beta Source RGD Symbol Acc 621375
C03	SBR1133952	ENSRNOT000000078438.1	Ikbgk	ENSRNOG0000060936	inhibitor of nuclear factor kappa B kinase subunit gamma Source RGD Symbol Acc 735223
C04	SBR1133226	ENSRNOT00000011731.3	Jun	ENSRNOG0000026293	Jun proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2943
C05	SBR1110172	ENSRNOT000000082174.1	Lmna	ENSRNOG0000019638	lamin A/C Source RGD Symbol Acc 620456
C06	SBR1117792	ENSRNOT00000019351.5	Lmnbl	ENSRNOG0000013774	lamin B1 Source RGD Symbol Acc 620522
C07	SBR1181153	ENSRNOT000000088936.1	Lta	ENSRNOG0000000838	lymphotoxin alpha Source RGD Symbol Acc 3020
C08	SBR1203426	ENSRNOT000000089411.1	LOC103694381	ENSRNOG0000058566	lymphotoxin-beta Source RGD Symbol Acc 9083628
C09	SBR1144410	ENSRNOT000000026184.4	Ltbr	ENSRNOG0000019264	lymphotoxin beta receptor Source RGD Symbol Acc 1309448
C10	SBR1177182	ENSRNOT000000079394.1	Madd	ENSRNOG0000012568	MAP-kinase activating death domain Source RGD Symbol Acc 619922
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1195777	005293.7	Map2k4	000003834	mitogen activated protein kinase kinase 4 Source RGD Symbol Acc 1307040
C12	SBR1134748	ENSRNOT00000017968.3	Map3k1	ENSRNOG0000013177	mitogen-activated protein kinase kinase 1 Source RGD Symbol Acc 620966
D01	SBR1132618	ENSRNOT00000004532.5	Map3k14	ENSRNOG0000003278	mitogen-activated protein kinase kinase kinase 14 Source RGD Symbol Acc 1310487
D02	SBR1093683	ENSRNOT00000007654.5	LOC100910771	ENSRNOG0000005724	mitogen-activated protein kinase kinase kinase 7-like Source RGD Symbol Acc 6496502
D03	SBR1199246	ENSRNOT00000067904.3	Tab1	ENSRNOG0000017285	TGF-beta activated kinase 1/MAP3K7 binding protein 1 Source RGD Symbol Acc 1306216
D04	SBR1144517	ENSRNOT00000065216.3	Mapk8	ENSRNOG0000020155	mitogen-activated protein kinase 8 Source RGD Symbol Acc 621506
D05	SBR1111134	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
D06	SBR1120974	ENSRNOT00000009894.6	Nfkbia	ENSRNOG0000007390	NFKB inhibitor alpha Source RGD Symbol Acc 3171
D07	SBR1176511	ENSRNOT00000007268.3	Ngfr	ENSRNOG0000005392	nerve growth factor receptor Source RGD Symbol Acc 3177
D08	SBR1176597	ENSRNOT00000045997.4	Bex3	ENSRNOG0000028822	brain expressed X-linked 3 Source RGD Symbol Acc 3148
D09	SBR1158213	ENSRNOT00000091952.1	Pak1	ENSRNOG0000029784	p21 (RAC1) activated kinase 1 Source RGD Symbol Acc 3250
D10	SBR1197439	ENSRNOT00000071060.2	LOC100910732	ENSRNOG0000048597	p21 (RAC1) activated kinase 2 Source RGD Symbol Acc 61953
D11	SBR1161994	ENSRNOT00000004232.5	Parp1	ENSRNOG0000003084	poly (ADP-ribose) polymerase 1 Source RGD Symbol Acc 2053
D12	SBR1166038	ENSRNOT00000018233.3	Pglyrp1	ENSRNOG0000013395	peptidoglycan recognition protein 1 Source RGD Symbol Acc 621429
E01	SBR1128961	ENSRNOT00000035247.7	Prkdc	ENSRNOG0000025028	protein kinase, DNA-activated, catalytic subunit Source RGD Symbol Acc 1308982
E02	SBR1149904	ENSRNOT00000024126.7	Psmg2	ENSRNOG0000017729	proteasome assembly chaperone 2 Source RGD Symbol Acc 1304867
E03	SBR1123205	ENSRNOT00000021752.5	Rb1	ENSRNOG0000016029	RB transcriptional corepressor 1 Source RGD Symbol Acc 3540
E04	SBR1214149	ENSRNOT00000077661.1	Relt	ENSRNOG0000025075	RELt, TNF receptor Source RGD Symbol Acc 1305381
E05	SBR1174883	ENSRNOT00000023962.5	Ripk1	ENSRNOG0000017787	receptor interacting serine/threonine kinase 1 Source RGD Symbol Acc 1310158
E06	SBR1207014	ENSRNOT00000091697.1	Sptan1	ENSRNOG0000015396	spectrin, alpha, non-erythrocytic 1 Source RGD Symbol Acc 621714
E07	SBR1138635	ENSRNOT00000081682.1	Tank	ENSRNOG0000008859	TRAF family member-associated NFKB activator Source RGD Symbol Acc 628859
E08	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
E09	SBR1211981	ENSRNOT00000066128.4	AABR07018323.1	ENSRNOG0000038483	
E10	SBR1183920	ENSRNOT00000011344.5	Tnfrsf11b	ENSRNOG0000008336	TNF receptor superfamily member 11B Source RGD Symbol Acc 619802
E11	SBR1117414	ENSRNOT00000004842.5	Tnfrsf12a	ENSRNOG0000003546	TNF receptor superfamily member 12A Source RGD Symbol Acc 631329
E12	SBR1124221	ENSRNOT00000056037.3	Tnfrsf13c	ENSRNOG0000007664	TNF receptor superfamily member 13C Source RGD Symbol Acc 1560810
F01	SBR1149283	ENSRNOT00000018494.5	Tnfrsf14	ENSRNOG0000013820	TNF receptor superfamily member 14 Source RGD Symbol Acc 1310115
F02	SBR1199596	ENSRNOT00000035886.5	Tnfrsf17	ENSRNOG0000021987	TNF receptor superfamily member 17 Source RGD Symbol Acc 1304703
F03	SBR1130829	ENSRNOT00000048529.4	Tnfrsf1a	ENSRNOG0000031312	TNF receptor superfamily member 1A Source RGD Symbol Acc 621237
F04	SBR1111098	ENSRNOT00000022478.4	Tnfrsf1b	ENSRNOG0000016575	TNF receptor superfamily member 1B Source RGD Symbol Acc 621238
F05	SBR1183174	ENSRNOT00000015918.5	Tnfrsf21	ENSRNOG0000011517	TNF receptor superfamily member 21 Source RGD Symbol Acc 1307308
F06	SBR1188451	ENSRNOT00000055466.2	Tnfrsf25	ENSRNOG0000021814	TNF receptor superfamily member 25 Source RGD Symbol Acc 1598206
F07	SBR1199323	ENSRNOT00000027251.4	Tnfrsf4	ENSRNOG0000020106	TNF receptor superfamily member 4 Source RGD Symbol Acc 3920
F08	SBR1100398	ENSRNOT00000022968.4	Tnfrsf8	ENSRNOG0000016782	TNF receptor superfamily member 8 Source RGD Symbol Acc 3879
F09	SBR1159626	ENSRNOT00000055506.4	Tnfrsf9	ENSRNOG0000036942	TNF receptor superfamily member 9 Source RGD Symbol Acc 1598208
F10	SBR1107258	ENSRNOT00000017758.5	Tnfsf10	ENSRNOG0000013269	TNF superfamily member 10 Source RGD Symbol Acc 628734

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1170442	ENSRNOT00000049056.4	LOC103689974	ENSRNOG0000049547	TNF superfamily member 11 Source RGD Symbol Acc 620784
F12	SBR1162961	ENSRNOT00000064401.2	Tnfsf12	ENSRNOG0000045670	TNF superfamily member 12 Source RGD Symbol Acc 1359620
G01	SBR1180016	ENSRNOT00000090762.1	Tnfsf13	ENSRNOG0000014171	TNF superfamily member 13 Source RGD Symbol Acc 1305871
G02	SBR1099702	ENSRNOT00000074247.1	Tnfsf14	ENSRNOG0000047730	TNF superfamily member 14 Source RGD Symbol Acc 1588572
G03	SBR1161711	ENSRNOT00000011845.3	Tnfsf15	ENSRNOG0000008930	TNF superfamily member 15 Source RGD Symbol Acc 628735
G04	SBR1151292	ENSRNOT00000039221.5	Tnfsf18	ENSRNOG0000026607	TNF superfamily member 18 Source RGD Symbol Acc 1305066
G05	SBR1194073	ENSRNOT00000003969.5	Tnfsf4	ENSRNOG0000002968	TNF superfamily member 4 Source RGD Symbol Acc 619816
G06	SBR1142322	ENSRNOT00000071515.1	Tnfsf9	ENSRNOG0000045595	TNF superfamily member 9 Source RGD Symbol Acc 727974
G07	SBR1105478	ENSRNOT00000020405.6	Tradd	ENSRNOG0000015179	TNFRSF1A-associated via death domain Source RGD Symbol Acc 621313
G08	SBR1181541	ENSRNOT00000008253.6	Traf2	ENSRNOG0000006238	Tnf receptor-associated factor 2 Source RGD Symbol Acc 1310457
G09	SBR1135297	ENSRNOT00000010906.6	Traf3	ENSRNOG0000008145	Tnf receptor-associated factor 3 Source RGD Symbol Acc 1304633
G10	SBR1109104	ENSRNOT00000018468.5	Traf4	ENSRNOG0000013169	Tnf receptor associated factor 4 Source RGD Symbol Acc 1306708
G11	SBR1200335	ENSRNOT00000006148.5	Traf6	ENSRNOG0000004639	TNF receptor associated factor 6 Source RGD Symbol Acc 1306853
G12	SBR1099136	ENSRNOT00000004192.4	Traf7	ENSRNOG0000003131	TNF receptor associated factor 7 Source RGD Symbol Acc 1559653
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	SBR1218555	Sybr_RGDC	RGDC	Sybr_RGDC	Rat Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green 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	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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