

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

Human TNF Signaling Pathway

Cat. no. 249950 SBHS-063ZR

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 (Rotor-Gene): QuantiNova LNA 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 PCR System Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	AGFG1	ARHGD1B	BAG4	CAD	CASP2	CASP3	CASP8	CD27	CD40	CD40LG	CD70	CHUK
B	CRADD	DFFA	DUSP1	EDA2R	FADD	FAS	FASLG	ELP1	IKKBK	IKBKG	JUN	LMNA
C	LMNB1	LMNB2	LTA	LTB	LTBR	MADD	MAP2K4	MAP3K1	MAP3K7	MAPK8	NFKB1	NFKBIA
D	NGFR	PAK1	PAK2	PARP1	PGLYRP1	PRKDC	PSMG2	RB1	RELT	SPTAN1	TNF	TNFAIP3
E	TNFRSF10A	TNFRSF10B	TNFRSF10C	TNFRSF10D	TNFRSF11A	TNFRSF11B	TNFRSF12A	TNFRSF13B	TNFRSF13C	TNFRSF14	TNFRSF17	TNFRSF18
F	TNFRSF19	TNFRSF1A	TNFRSF1B	TNFRSF21	TNFRSF25	TNFRSF4	TNFRSF6B	TNFRSF8	TNFRSF9	TNFSF10	TNFSF11	TNFSF12
G	TNFSF13	TNFSF13B	TNFSF14	TNFSF15	TNFSF18	TNFSF4	TNFSF8	TNFSF9	TRADD	TRAF1	TRAF2	TRAF3
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0305301	ENST0000031078.12	AGFG1	ENSG00000173744	ArfGAP with FG repeats 1 Source HGNC Symbol Acc HGNC 5175
A02	SBH0074394	ENST00000228945.9	ARHGDI1B	ENSG00000111348	Rho GDP dissociation inhibitor beta Source HGNC Symbol Acc HGNC 679
A03	SBH0608711	ENST00000432471.6	BAG4	ENSG00000156735	BCL2 associated athanogene 4 Source HGNC Symbol Acc HGNC 940
A04	SBH0040523	ENST00000491891.1	CAD	ENSG00000084774	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase Source HGNC Symbol Acc HGNC 1424
A05	SBH0250948	ENST00000310447.10	CASP2	ENSG00000106144	caspase 2 Source HGNC Symbol Acc HGNC 1503
A06	SBH1219824	ENST00000308394.9	CASP3	ENSG00000164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
A07	SBH0075404	ENST00000358485.8	CASP8	ENSG00000064012	caspase 8 Source HGNC Symbol Acc HGNC 1509
A08	SBH1219859	ENST00000266557.3	CD27	ENSG00000139193	CD27 molecule Source HGNC Symbol Acc HGNC 11922
A09	SBH1219861	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
A10	SBH1219862	ENST00000370629.6	CD40LG	ENSG00000102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
A11	SBH1219863	ENST00000245903.4	CD70	ENSG00000125726	CD70 molecule Source NCBI gene Acc 970
A12	SBH1219887	ENST00000370397.8	CHUK	ENSG00000213341	conserved helix-loop-helix ubiquitous kinase Source HGNC Symbol Acc HGNC 1974
B01	SBH1219911	ENST00000552983.5	CRADD	ENSG00000169372	CASP2 and RIPK1 domain containing adaptor with death domain Source HGNC Symbol Acc HGNC 2340
B02	SBH1219946	ENST00000377036.2	DFFA	ENSG00000160049	DNA fragmentation factor subunit alpha Source HGNC Symbol Acc HGNC 2772
B03	SBH1219962	ENST00000239223.4	DUSP1	ENSG00000120129	dual specificity phosphatase 1 Source HGNC Symbol Acc HGNC 3064
B04	SBH0609041	ENST00000451436.6	EDA2R	ENSG00000131080	ectodysplasin A2 receptor Source HGNC Symbol Acc HGNC 17756
B05	SBH0294674	ENST00000301838.4	FADD	ENSG00000168040	Fas associated via death domain Source HGNC Symbol Acc HGNC 3573
B06	SBH1219994	ENST00000652046.1	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
B07	SBH1219995	ENST00000367721.3	FASLG	ENSG00000117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
B08	SBH0150513	ENST00000467959.1	ELP1	ENSG00000070061	elongator complex protein 1 Source HGNC Symbol Acc HGNC 5959
B09	SBH0241248	ENST00000520810.6	IKKBK	ENSG00000104365	inhibitor of nuclear factor kappa B kinase subunit beta Source HGNC Symbol Acc HGNC 5960
B10	SBH0411490	ENST00000422680.5	IKBK1	ENSG00000269335	inhibitor of nuclear factor kappa B kinase subunit gamma Source HGNC Symbol Acc HGNC 5961
B11	SBH0613340	ENST00000371222.3	JUN	ENSG00000177606	Jun proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6204
B12	SBH0543296	ENST00000368299.7	LMNA	ENSG00000160789	lamin A/C Source HGNC Symbol Acc HGNC 6636
C01	SBH0405376	ENST00000261366.10	LMNB1	ENSG00000113368	lamin B1 Source HGNC Symbol Acc HGNC 6637
C02	SBH0329533	ENST00000532465.1	LMNB2	ENSG00000176619	lamin B2 Source HGNC Symbol Acc HGNC 6638
C03	SBH0249281	ENST00000418386.2	LTA	ENSG00000226979	lymphotoxin alpha Source HGNC Symbol Acc HGNC 6709
C04	SBH1220578	ENST00000429299.2	LTB	ENSG00000227507	lymphotoxin beta Source HGNC Symbol Acc HGNC 6711
C05	SBH1220181	ENST00000228918.9	LTBR	ENSG00000111321	lymphotoxin beta receptor Source HGNC Symbol Acc HGNC 6718
C06	SBH0164256	ENST00000349238.7	MADD	ENSG00000110514	MAP kinase activating death domain Source HGNC Symbol Acc HGNC 6766
C07	SBH1220189	ENST00000353533.10	MAP2K4	ENSG00000065559	mitogen-activated protein kinase kinase 4 Source HGNC Symbol Acc HGNC 6844
C08	SBH1220190	ENST00000399503.4	MAP3K1	ENSG00000095015	mitogen-activated protein kinase kinase kinase 1 Source HGNC Symbol Acc HGNC 6848
C09	SBH1220191	ENST00000369329.8	MAP3K7	ENSG00000135341	mitogen-activated protein kinase kinase kinase 7 Source HGNC Symbol Acc HGNC 6859
C10	SBH0294318	ENST00000395611.7	MAPK8	ENSG00000107643	mitogen-activated protein kinase 8 Source HGNC Symbol Acc HGNC 6881
		ENST00000651		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH1220264	197.1	NFKB1	109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
C12	SBH0552847	ENST00000216797.9	NFKBIA	ENSG00000100906	NFKB inhibitor alpha Source HGNC Symbol Acc HGNC 7797
D01	SBH0556664	ENST00000504201.1	NGFR	ENSG00000064300	nerve growth factor receptor Source HGNC Symbol Acc HGNC 7809
D02	SBH0221748	ENST00000356341.7	PAK1	ENSG00000149269	p21 (RAC1) activated kinase 1 Source HGNC Symbol Acc HGNC 8590
D03	SBH0516046	ENST00000426668.1	PAK2	ENSG00000180370	p21 (RAC1) activated kinase 2 Source HGNC Symbol Acc HGNC 8591
D04	SBH1220289	ENST00000366794.10	PARP1	ENSG00000143799	poly(ADP-ribose) polymerase 1 Source HGNC Symbol Acc HGNC 270
D05	SBH0401292	ENST00000008938.5	PGLYRP1	ENSG00000008438	peptidoglycan recognition protein 1 Source HGNC Symbol Acc HGNC 8904
D06	SBH0182228	ENST00000314191.6	PRKDC	ENSG00000253729	protein kinase, DNA-activated, catalytic subunit Source HGNC Symbol Acc HGNC 9413
D07	SBH0043101	ENST00000317615.11	PSMG2	ENSG00000128789	proteasome assembly chaperone 2 Source HGNC Symbol Acc HGNC 24929
D08	SBH0093533	ENST00000267163.5	RB1	ENSG00000139687	RB transcriptional corepressor 1 Source HGNC Symbol Acc HGNC 9884
D09	SBH0010376	ENST00000544075.5	RELT	ENSG00000054967	RELT, TNF receptor Source HGNC Symbol Acc HGNC 13764
D10	SBH0247589	ENST00000630804.2	SPTAN1	ENSG00000197694	spectrin alpha, non-erythrocytic 1 Source HGNC Symbol Acc HGNC 11273
D11	SBH1220471	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
D12	SBH0348756	ENST00000614035.4	TNFAIP3	ENSG00000118503	TNF alpha induced protein 3 Source HGNC Symbol Acc HGNC 11896
E01	SBH1220472	ENST00000221132.7	TNFRSF10A	ENSG00000104689	TNF receptor superfamily member 10a Source HGNC Symbol Acc HGNC 11904
E02	SBH1220473	ENST00000347739.3	TNFRSF10B	ENSG00000120889	TNF receptor superfamily member 10b Source HGNC Symbol Acc HGNC 11905
E03	SBH0394080	ENST00000518135.1	TNFRSF10C	ENSG00000173535	TNF receptor superfamily member 10c Source HGNC Symbol Acc HGNC 11906
E04	SBH0393775	ENST00000312584.4	TNFRSF10D	ENSG00000173530	TNF receptor superfamily member 10d Source HGNC Symbol Acc HGNC 11907
E05	SBH0198097	ENST00000639222.1	TNFRSF11A	ENSG00000141655	TNF receptor superfamily member 11a Source HGNC Symbol Acc HGNC 11908
E06	SBH1220474	ENST00000297350.9	TNFRSF11B	ENSG00000164761	TNF receptor superfamily member 11b Source HGNC Symbol Acc HGNC 11909
E07	SBH0222622	ENST00000573001.5	TNFRSF12A	ENSG00000006327	TNF receptor superfamily member 12A Source HGNC Symbol Acc HGNC 18152
E08	SBH0417784	ENST00000583789.1	TNFRSF13B	ENSG00000240505	TNF receptor superfamily member 13B Source HGNC Symbol Acc HGNC 18153
E09	SBH0314498	ENST00000291232.4	TNFRSF13C	ENSG00000159958	TNF receptor superfamily member 13C Source HGNC Symbol Acc HGNC 17755
E10	SBH0472908	ENST00000435221.6	TNFRSF14	ENSG00000157873	TNF receptor superfamily member 14 Source HGNC Symbol Acc HGNC 11912
E11	SBH0089303	ENST00000396495.3	TNFRSF17	ENSG00000048462	TNF receptor superfamily member 17 Source HGNC Symbol Acc HGNC 11913
E12	SBH0054416	ENST00000486728.5	TNFRSF18	ENSG00000186891	TNF receptor superfamily member 18 Source HGNC Symbol Acc HGNC 11914
F01	SBH0135218	ENST00000382263.3	TNFRSF19	ENSG00000127863	TNF receptor superfamily member 19 Source HGNC Symbol Acc HGNC 11915
F02	SBH0080951	ENST00000162749.6	TNFRSF1A	ENSG00000067182	TNF receptor superfamily member 1A Source HGNC Symbol Acc HGNC 11916
F03	SBH1220475	ENST00000536782.2	TNFRSF1B	ENSG00000028137	TNF receptor superfamily member 1B Source HGNC Symbol Acc HGNC 11917
F04	SBH0062778	ENST00000296861.2	TNFRSF21	ENSG00000146072	TNF receptor superfamily member 21 Source HGNC Symbol Acc HGNC 13469
F05	SBH0554154	ENST00000377782.7	TNFRSF25	ENSG00000215788	TNF receptor superfamily member 25 Source HGNC Symbol Acc HGNC 11910
F06	SBH0433585	ENST00000453580.1	TNFRSF4	ENSG00000186827	TNF receptor superfamily member 4 Source HGNC Symbol Acc HGNC 11918
F07	SBH0182905	ENST00000369996.3	TNFRSF6B	ENSG00000243509	TNF receptor superfamily member 6b Source HGNC Symbol Acc HGNC 11921
F08	SBH0035846	ENST00000417814.3	TNFRSF8	ENSG00000120949	TNF receptor superfamily member 8 Source HGNC Symbol Acc HGNC 11923
F09	SBH1220476	ENST00000377507.7	TNFRSF9	ENSG00000049249	TNF receptor superfamily member 9 Source HGNC Symbol Acc HGNC 11924
F10	SBH1220477	ENST00000241261.7	TNFSF10	ENSG00000121858	TNF superfamily member 10 Source HGNC Symbol Acc HGNC 11925

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220478	ENST00000239849.8	TNFSF11	ENSG00000120659	TNF superfamily member 11 Source HGNC Symbol Acc HGNC 11926
F12	SBH0415653	ENST00000322272.11	TNFSF12	ENSG00000239697	TNF superfamily member 12 Source HGNC Symbol Acc HGNC 11927
G01	SBH1220479	ENST00000436057.5	TNFSF13	ENSG00000161955	TNF superfamily member 13 Source HGNC Symbol Acc HGNC 11928
G02	SBH0113173	ENST00000375887.8	TNFSF13B	ENSG00000102524	TNF superfamily member 13b Source HGNC Symbol Acc HGNC 11929
G03	SBH1220480	ENST00000599359.1	TNFSF14	ENSG00000125735	TNF superfamily member 14 Source HGNC Symbol Acc HGNC 11930
G04	SBH0334858	ENST00000374044.1	TNFSF15	ENSG00000181634	TNF superfamily member 15 Source HGNC Symbol Acc HGNC 11931
G05	SBH0167727	ENST00000404377.3	TNFSF18	ENSG00000120337	TNF superfamily member 18 Source HGNC Symbol Acc HGNC 11932
G06	SBH1220481	ENST00000367718.5	TNFSF4	ENSG00000117586	TNF superfamily member 4 Source HGNC Symbol Acc HGNC 11934
G07	SBH0593682	ENST00000223795.2	TNFSF8	ENSG00000106952	TNF superfamily member 8 Source HGNC Symbol Acc HGNC 11938
G08	SBH0289263	ENST00000245817.5	TNFSF9	ENSG00000125657	TNF superfamily member 9 Source HGNC Symbol Acc HGNC 11939
G09	SBH1220491	ENST00000345057.9	TRADD	ENSG00000102871	TNFRSF1A associated via death domain Source HGNC Symbol Acc HGNC 12030
G10	SBH0061182	ENST00000373887.8	TRAF1	ENSG00000056558	TNF receptor associated factor 1 Source HGNC Symbol Acc HGNC 12031
G11	SBH1220492	ENST00000247668.7	TRAF2	ENSG00000127191	TNF receptor associated factor 2 Source HGNC Symbol Acc HGNC 12032
G12	SBH0271159	ENST00000560371.5	TRAF3	ENSG00000131323	TNF receptor associated factor 3 Source HGNC Symbol Acc HGNC 12033
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	SBH1218553	Sybr_HGDC	HGDC	Sybr_HGDC	Human 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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