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

Human Inflammasomes

Cat. no. 249950 SBHS-097ZR

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	AIM2	BCL2	BCL2L1	BIRC2	BIRC3	CARD18	CARD6	CASP1	CASP5	CASP8	CCL2	CCL5
B	CCL7	CD40LG	CFLAR	CHUK	CIITA	CTSB	CXCL1	CXCL2	FADD	HSP90AA1	HSP90AB1	HSP90B1
C	IFNB1	IFNG	IKBKB	IKBKG	IL12A	IL12B	IL18	IL1B	IL33	IL6	IRAK1	IRF1
D	IRF2	MAP3K7	MAPK1	MAPK11	MAPK12	MAPK13	MAPK3	MAPK8	MAPK9	MEFV	MYD88	NAIP
E	NFKB1	NFKBIA	NFKBIB	NLRC4	NLRC5	NLRP1	NLRP12	NLRP3	NLRP4	NLRP5	NLRP6	NLRP9
F	NLRX1	NOD1	NOD2	P2RX7	PANX1	PEA15	PSTPIP1	PTGS2	PYCARD	PYDC1	MOK	RELA
G	RIPK2	SUGT1	TAB1	TAB2	TIRAP	TNF	TNFSF11	TNFSF14	TNFSF4	TRAF6	TXNIP	XIAP
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	SBH1219731	ENST00000368130.9	AIM2	ENSG00000163568	absent in melanoma 2 Source HGNC Symbol Acc HGNC 357
A02	SBH1219786	ENST00000398117.1	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A03	SBH0216029	ENST00000450273.1	BCL2L1	ENSG00000171552	BCL2 like 1 Source HGNC Symbol Acc HGNC 992
A04	SBH1219795	ENST00000530675.5	BIRC2	ENSG00000110330	baculoviral IAP repeat containing 2 Source HGNC Symbol Acc HGNC 590
A05	SBH1219796	ENST00000263464.8	BIRC3	ENSG00000023445	baculoviral IAP repeat containing 3 Source HGNC Symbol Acc HGNC 591
A06	SBH0640863	ENST00000532895.1	CARD18	ENSG00000255501	caspase recruitment domain family member 18 Source HGNC Symbol Acc HGNC 28861
A07	SBH0548680	ENST00000254691.10	CARD6	ENSG00000132357	caspase recruitment domain family member 6 Source HGNC Symbol Acc HGNC 16394
A08	SBH0054226	ENST00000526568.5	CASP1	ENSG00000137752	caspase 1 Source HGNC Symbol Acc HGNC 1499
A09	SBH1219826	ENST00000260315.8	CASP5	ENSG00000137757	caspase 5 Source HGNC Symbol Acc HGNC 1506
A10	SBH0075404	ENST00000358485.8	CASP8	ENSG00000064012	caspase 8 Source HGNC Symbol Acc HGNC 1509
A11	SBH0228134	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A12	SBH1219840	ENST00000603197.6	CCL5	ENSG00000271503	C-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10632
B01	SBH0098305	ENST00000378569.2	CCL7	ENSG00000108688	C-C motif chemokine ligand 7 Source HGNC Symbol Acc HGNC 10634
B02	SBH1219862	ENST00000370629.6	CD40LG	ENSG00000102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
B03	SBH1219883	ENST00000462763.5	CFLAR	ENSG00000003402	CASP8 and FADD like apoptosis regulator Source HGNC Symbol Acc HGNC 1876
B04	SBH1219887	ENST00000370397.8	CHUK	ENSG00000213341	conserved helix-loop-helix ubiquitous kinase Source HGNC Symbol Acc HGNC 1974
B05	SBH1219889	ENST00000618207.4	CIITA	ENSG00000179583	class II major histocompatibility complex transactivator Source HGNC Symbol Acc HGNC 7067
B06	SBH1219921	ENST00000534510.5	CTSB	ENSG00000164733	cathepsin B Source HGNC Symbol Acc HGNC 2527
B07	SBH0404660	ENST00000395761.3	CXCL1	ENSG00000163739	C-X-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 4602
B08	SBH1219929	ENST00000508487.3	CXCL2	ENSG00000081041	C-X-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 4603
B09	SBH0294674	ENST00000301838.4	FADD	ENSG00000168040	Fas associated via death domain Source HGNC Symbol Acc HGNC 3573
B10	SBH0323386	ENST00000334701.11	HSP90AA1	ENSG00000080824	heat shock protein 90 alpha family class A member 1 Source HGNC Symbol Acc HGNC 5253
B11	SBH1220555	ENST00000371646.10	HSP90AB1	ENSG00000096384	heat shock protein 90 alpha family class B member 1 Source HGNC Symbol Acc HGNC 5258
B12	SBH1220070	ENST00000299767.10	HSP90B1	ENSG00000166598	heat shock protein 90 beta family member 1 Source HGNC Symbol Acc HGNC 12028
C01	SBH1220089	ENST00000380232.4	IFNB1	ENSG00000171855	interferon beta 1 Source HGNC Symbol Acc HGNC 5434
C02	SBH1220090	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
C03	SBH0241248	ENST00000520810.6	IKBKB	ENSG00000104365	inhibitor of nuclear factor kappa B kinase subunit beta Source HGNC Symbol Acc HGNC 5960
C04	SBH0411490	ENST00000422680.5	IKBKG	ENSG00000269335	inhibitor of nuclear factor kappa B kinase subunit gamma Source HGNC Symbol Acc HGNC 5961
C05	SBH1220098	ENST00000305579.7	IL12A	ENSG00000168811	interleukin 12A Source HGNC Symbol Acc HGNC 5969
C06	SBH1220099	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
C07	SBH1220103	ENST00000524595.5	IL18	ENSG00000150782	interleukin 18 Source HGNC Symbol Acc HGNC 5986
C08	SBH0079231	ENST00000263341.6	IL1B	ENSG00000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
C09	SBH0223610	ENST00000381434.7	IL33	ENSG00000137033	interleukin 33 Source HGNC Symbol Acc HGNC 16028
C10	SBH1220111	ENST00000401630.7	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
		ENST00000393		ENSG00000	interleukin 1 receptor associated kinase 1 Source HGNC Symbol Acc HGNC

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH1220119	687.6	IRAK1	184216	6112
C12	SBH1220122	ENST00000245414.9	IRF1	ENSG00000125347	interferon regulatory factor 1 Source HGNC Symbol Acc HGNC 6116
D01	SBH1220123	ENST00000393593.8	IRF2	ENSG00000168310	interferon regulatory factor 2 Source HGNC Symbol Acc HGNC 6117
D02	SBH1220191	ENST00000369329.8	MAP3K7	ENSG00000135341	mitogen-activated protein kinase kinase kinase 7 Source HGNC Symbol Acc HGNC 6859
D03	SBH1220192	ENST00000544786.1	MAPK1	ENSG00000100030	mitogen-activated protein kinase 1 Source HGNC Symbol Acc HGNC 6871
D04	SBH0344387	ENST00000330651.11	MAPK11	ENSG00000185386	mitogen-activated protein kinase 11 Source HGNC Symbol Acc HGNC 6873
D05	SBH1220193	ENST00000395780.5	MAPK12	ENSG00000188130	mitogen-activated protein kinase 12 Source HGNC Symbol Acc HGNC 6874
D06	SBH0068887	ENST00000211287.9	MAPK13	ENSG00000156711	mitogen-activated protein kinase 13 Source HGNC Symbol Acc HGNC 6875
D07	SBH1220194	ENST00000478356.5	MAPK3	ENSG00000102882	mitogen-activated protein kinase 3 Source HGNC Symbol Acc HGNC 6877
D08	SBH0294318	ENST00000395611.7	MAPK8	ENSG00000107643	mitogen-activated protein kinase 8 Source HGNC Symbol Acc HGNC 6881
D09	SBH0380071	ENST00000343111.10	MAPK9	ENSG00000050748	mitogen-activated protein kinase 9 Source HGNC Symbol Acc HGNC 6886
D10	SBH1220209	ENST00000219596.5	MEFV	ENSG00000103313	MEFV, pyrin innate immunity regulator Source HGNC Symbol Acc HGNC 6998
D11	SBH0303234	ENST00000648963.1	MYD88	ENSG00000172936	MYD88, innate immune signal transduction adaptor Source HGNC Symbol Acc HGNC 7562
D12	SBH1220235	ENST00000523981.5	NAIP	ENSG00000249437	NLR family apoptosis inhibitory protein Source HGNC Symbol Acc HGNC 7634
E01	SBH1220264	ENST00000651197.1	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
E02	SBH0552847	ENST00000216797.9	NFKBIA	ENSG00000100906	NFKB inhibitor alpha Source HGNC Symbol Acc HGNC 7797
E03	SBH0044332	ENST00000509705.3	NFKBIB	ENSG00000104825	NFKB inhibitor beta Source HGNC Symbol Acc HGNC 7798
E04	SBH0227132	ENST00000342905.10	NLRC4	ENSG00000091106	NLR family CARD domain containing 4 Source HGNC Symbol Acc HGNC 16412
E05	SBH0039529	ENST00000545081.5	NLRC5	ENSG00000140853	NLR family CARD domain containing 5 Source HGNC Symbol Acc HGNC 29933
E06	SBH0359752	ENST00000345221.7	NLRP1	ENSG00000091592	NLR family pyrin domain containing 1 Source HGNC Symbol Acc HGNC 14374
E07	SBH0062711	ENST00000391775.7	NLRP12	ENSG00000142405	NLR family pyrin domain containing 12 Source HGNC Symbol Acc HGNC 22938
E08	SBH1220270	ENST00000391828.7	NLRP3	ENSG00000162711	NLR family pyrin domain containing 3 Source HGNC Symbol Acc HGNC 16400
E09	SBH0172964	ENST00000587891.5	NLRP4	ENSG00000160505	NLR family pyrin domain containing 4 Source HGNC Symbol Acc HGNC 22943
E10	SBH0455086	ENST00000597673.1	NLRP5	ENSG00000171487	NLR family pyrin domain containing 5 Source HGNC Symbol Acc HGNC 21269
E11	SBH0408990	ENST00000534750.5	NLRP6	ENSG00000174885	NLR family pyrin domain containing 6 Source HGNC Symbol Acc HGNC 22944
E12	SBH0021080	ENST00000332836.6	NLRP9	ENSG00000185792	NLR family pyrin domain containing 9 Source HGNC Symbol Acc HGNC 22941
F01	SBH0516980	ENST00000474751.6	NLRX1	ENSG00000160703	NLR family member X1 Source HGNC Symbol Acc HGNC 29890
F02	SBH1220271	ENST00000222823.9	NOD1	ENSG00000106100	nucleotide binding oligomerization domain containing 1 Source HGNC Symbol Acc HGNC 16390
F03	SBH0193609	ENST00000300589.6	NOD2	ENSG00000167207	nucleotide binding oligomerization domain containing 2 Source HGNC Symbol Acc HGNC 5331
F04	SBH0365004	ENST00000535250.5	P2RX7	ENSG00000089041	purinergic receptor P2X 7 Source HGNC Symbol Acc HGNC 8537
F05	SBH0342348	ENST00000436171.2	PANX1	ENSG00000110218	pannexin 1 Source HGNC Symbol Acc HGNC 8599
F06	SBH0434847	ENST00000368077.5	PEA15	ENSG00000162734	proliferation and apoptosis adaptor protein 15 Source HGNC Symbol Acc HGNC 8822
F07	SBH0650439	ENST00000558012.5	PSTPIP1	ENSG00000140368	proline-serine-threonine phosphatase interacting protein 1 Source HGNC Symbol Acc HGNC 9580
F08	SBH1220344	ENST00000367468.10	PTGS2	ENSG00000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
F09	SBH1220348	ENST00000247470.10	PYCARD	ENSG00000103490	PYD and CARD domain containing Source HGNC Symbol Acc HGNC 16608
F10	SBH0344194	ENST00000568383.5	PYDC1	ENSG00000169900	pyrin domain containing 1 Source HGNC Symbol Acc HGNC 30261

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0504955	ENST00000522874.5	MOK	ENSG00000080823	MOK protein kinase Source HGNC Symbol Acc HGNC 9833
F12	SBH1220363	ENST00000532999.5	RELA	ENSG00000173039	RELA proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9955
G01	SBH1220370	ENST00000220751.5	RIPK2	ENSG00000104312	receptor interacting serine/threonine kinase 2 Source HGNC Symbol Acc HGNC 10020
G02	SBH1220429	ENST00000310528.8	SUGT1	ENSG00000165416	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone Source HGNC Symbol Acc HGNC 16987
G03	SBH1220431	ENST00000216160.11	TAB1	ENSG00000100324	TGF-beta activated kinase 1 (MAP3K7) binding protein 1 Source HGNC Symbol Acc HGNC 18157
G04	SBH0115054	ENST00000484505.1	TAB2	ENSG00000055208	TGF-beta activated kinase 1 (MAP3K7) binding protein 2 Source HGNC Symbol Acc HGNC 17075
G05	SBH0413608	ENST00000392680.6	TIRAP	ENSG00000150455	TIR domain containing adaptor protein Source HGNC Symbol Acc HGNC 17192
G06	SBH1220471	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G07	SBH1220478	ENST00000239849.8	TNFSF11	ENSG00000120659	TNF superfamily member 11 Source HGNC Symbol Acc HGNC 11926
G08	SBH1220480	ENST00000599359.1	TNFSF14	ENSG00000125735	TNF superfamily member 14 Source HGNC Symbol Acc HGNC 11930
G09	SBH1220481	ENST00000367718.5	TNFSF4	ENSG00000117586	TNF superfamily member 4 Source HGNC Symbol Acc HGNC 11934
G10	SBH1220493	ENST00000526995.6	TRAF6	ENSG00000175104	TNF receptor associated factor 6 Source HGNC Symbol Acc HGNC 12036
G11	SBH0485667	ENST00000486597.1	TXNIP	ENSG00000265972	thioredoxin interacting protein Source HGNC Symbol Acc HGNC 16952
G12	SBH1220539	ENST00000434753.7	XIAP	ENSG00000101966	X-linked inhibitor of apoptosis Source HGNC Symbol Acc HGNC 592
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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.