

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

Human Inflammasomes

Cat. no. 249950 SBHS-097ZA

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 | 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 | IKKBK | 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 | NLR4 | NLR5 | NLRP1 | NLRP2 | 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 | IKKB | ENSG00000104365 | inhibitor of nuclear factor kappa B kinase subunit beta Source HGNC Symbol Acc HGNC 5960 |
| C04 | SBH0411490 | ENST00000422680.5 | IKBK | 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 | | ENSG000000 | 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, MIST2 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 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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