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

Human Antifungal Response

Cat. no. 249950 SBHS-147ZR

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	BCL10	C3	C5AR1	CARD9	CASP1	CASP8	CCL2	CCL20	CCL5	CCR1	CD14	CD207
B	CD209	CD36	CD40	CD5	CD83	CHIA	CLEC6A	CLEC7A	COLEC12	CSF2	CSF3	CXCL1
C	CXCL10	CXCL11	CXCL2	CXCL9	F2RL1	F3	FCGR1A	FCGR2A	FCGR3A	FCN1	FOS	IFNG
D	IKBKB	IL10	IL12A	IL12B	IL18	IL1A	IL1B	IL1R1	IL2	IL23A	IL6	CXCL8
E	IRAK1	IRAK4	ITGAM	ITGB2	JUN	LYN	MALT1	MAP2K4	MAP3K7	MAPK14	MAPK8	MBL2
F	MRC1	MYD88	NFKB1	NFKBIA	NLRP3	NPTX1	PLCG2	PTGS2	PTPN6	PTX3	PYCARD	RAF1
G	SCARF1	SFTPD	SOCS3	ST3GAL5	STAT1	SYK	TIRAP	TLR2	TLR4	TLR9	TNF	TRAF6
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	SBH1219785	ENST00000648566.1	BCL10	ENSG00000142867	BCL10, immune signaling adaptor Source HGNC Symbol Acc HGNC 989
A02	SBH0244130	ENST00000245907.10	C3	ENSG00000125730	complement C3 Source HGNC Symbol Acc HGNC 1318
A03	SBH0627132	ENST00000355085.4	C5AR1	ENSG00000197405	complement C5a receptor 1 Source HGNC Symbol Acc HGNC 1338
A04	SBH1219822	ENST00000371732.9	CARD9	ENSG00000187796	caspase recruitment domain family member 9 Source HGNC Symbol Acc HGNC 16391
A05	SBH0054226	ENST00000526568.5	CASP1	ENSG00000137752	caspase 1 Source HGNC Symbol Acc HGNC 1499
A06	SBH0075404	ENST00000358485.8	CASP8	ENSG00000064012	caspase 8 Source HGNC Symbol Acc HGNC 1509
A07	SBH0228134	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A08	SBH1219834	ENST00000409189.7	CCL20	ENSG00000115009	C-C motif chemokine ligand 20 Source HGNC Symbol Acc HGNC 10619
A09	SBH1219840	ENST00000603197.6	CCL5	ENSG00000271503	C-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10632
A10	SBH1219851	ENST00000296140.4	CCR1	ENSG00000163823	C-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 1602
A11	SBH1219857	ENST00000512545.1	CD14	ENSG00000170458	CD14 molecule Source HGNC Symbol Acc HGNC 1628
A12	SBH0567899	ENST00000410009.5	CD207	ENSG00000116031	CD207 molecule Source HGNC Symbol Acc HGNC 17935
B01	SBH0506763	ENST00000601951.5	CD209	ENSG00000090659	CD209 molecule Source HGNC Symbol Acc HGNC 1641
B02	SBH0074710	ENST00000441109.6	CD36	ENSG00000135218	CD36 molecule Source HGNC Symbol Acc HGNC 1663
B03	SBH1219861	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
B04	SBH0543140	ENST00000544014.1	CD5	ENSG00000110448	CD5 molecule Source HGNC Symbol Acc HGNC 1685
B05	SBH0608579	ENST00000379153.4	CD83	ENSG00000112149	CD83 molecule Source HGNC Symbol Acc HGNC 1703
B06	SBH0585338	ENST00000353665.10	CHIA	ENSG00000134216	chitinase, acidic Source HGNC Symbol Acc HGNC 17432
B07	SBH0458672	ENST00000382073.3	CLEC6A	ENSG00000205846	C-type lectin domain containing 6A Source HGNC Symbol Acc HGNC 14556
B08	SBH0664303	ENST00000310002.4	CLEC7A	ENSG00000172243	C-type lectin domain containing 7A Source HGNC Symbol Acc HGNC 14558
B09	SBH0470980	ENST00000582147.1	COLEC12	ENSG00000158270	collectin subfamily member 12 Source HGNC Symbol Acc HGNC 16016
B10	SBH1219914	ENST00000296871.4	CSF2	ENSG00000164400	colony stimulating factor 2 Source HGNC Symbol Acc HGNC 2434
B11	SBH0378721	ENST00000225474.6	CSF3	ENSG00000108342	colony stimulating factor 3 Source HGNC Symbol Acc HGNC 2438
B12	SBH0404660	ENST00000395761.3	CXCL1	ENSG00000163739	C-X-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 4602
C01	SBH1219927	ENST00000306602.3	CXCL10	ENSG00000169245	C-X-C motif chemokine ligand 10 Source HGNC Symbol Acc HGNC 10637
C02	SBH0419056	ENST00000306621.7	CXCL11	ENSG00000169248	C-X-C motif chemokine ligand 11 Source HGNC Symbol Acc HGNC 10638
C03	SBH1219929	ENST00000508487.3	CXCL2	ENSG00000081041	C-X-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 4603
C04	SBH0383348	ENST00000264888.5	CXCL9	ENSG00000138755	C-X-C motif chemokine ligand 9 Source HGNC Symbol Acc HGNC 7098
C05	SBH0397941	ENST00000514165.1	F2RL1	ENSG00000164251	F2R like trypsin receptor 1 Source HGNC Symbol Acc HGNC 3538
C06	SBH1219990	ENST00000334047.12	F3	ENSG00000117525	coagulation factor III, tissue factor Source HGNC Symbol Acc HGNC 3541
C07	SBH0043666	ENST00000444948.5	FCGR1A	ENSG00000150337	Fc fragment of IgG receptor Ia Source HGNC Symbol Acc HGNC 3613
C08	SBH0643988	ENST00000491841.1	FCGR2A	ENSG00000143226	Fc fragment of IgG receptor IIa Source HGNC Symbol Acc HGNC 3616
C09	SBH0279923	ENST00000367969.8	FCGR3A	ENSG00000203747	Fc fragment of IgG receptor IIIa Source HGNC Symbol Acc HGNC 3619
C10	SBH0191266	ENST00000616356.4	FCN1	ENSG00000085265	ficolin 1 Source HGNC Symbol Acc HGNC 3623
		ENST00000554		ENSG00000	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH1220004	617.1	FOS	170345	Acc HGNC 3796
C12	SBH1220090	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
D01	SBH0241248	ENST00000520810.6	IKBKB	ENSG00000104365	inhibitor of nuclear factor kappa B kinase subunit beta Source HGNC Symbol Acc HGNC 5960
D02	SBH1220095	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D03	SBH1220098	ENST00000305579.7	IL12A	ENSG00000168811	interleukin 12A Source HGNC Symbol Acc HGNC 5969
D04	SBH1220099	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
D05	SBH1220103	ENST00000524595.5	IL18	ENSG00000150782	interleukin 18 Source HGNC Symbol Acc HGNC 5986
D06	SBH0663647	ENST00000263339.3	IL1A	ENSG00000115008	interleukin 1 alpha Source HGNC Symbol Acc HGNC 5991
D07	SBH0079231	ENST00000263341.6	IL1B	ENSG00000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
D08	SBH1220104	ENST00000424272.5	IL1R1	ENSG00000115594	interleukin 1 receptor type 1 Source HGNC Symbol Acc HGNC 5993
D09	SBH0225582	ENST00000226730.4	IL2	ENSG00000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
D10	SBH1220107	ENST00000228534.6	IL23A	ENSG00000110944	interleukin 23 subunit alpha Source HGNC Symbol Acc HGNC 15488
D11	SBH1220111	ENST00000401630.7	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
D12	SBH1219932	ENST00000401931.1	CXCL8	ENSG00000169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
E01	SBH1220119	ENST00000393687.6	IRAK1	ENSG00000184216	interleukin 1 receptor associated kinase 1 Source HGNC Symbol Acc HGNC 6112
E02	SBH1220121	ENST00000613694.4	IRAK4	ENSG00000198001	interleukin 1 receptor associated kinase 4 Source HGNC Symbol Acc HGNC 17967
E03	SBH0245852	ENST00000287497.13	ITGAM	ENSG00000169896	integrin subunit alpha M Source HGNC Symbol Acc HGNC 6149
E04	SBH0032107	ENST00000397857.5	ITGB2	ENSG00000160255	integrin subunit beta 2 Source HGNC Symbol Acc HGNC 6155
E05	SBH0613340	ENST00000371222.3	JUN	ENSG00000177606	Jun proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6204
E06	SBH0578082	ENST00000519728.6	LYN	ENSG00000254087	LYN proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 6735
E07	SBH0557342	ENST00000587438.1	MALT1	ENSG00000172175	MALT1 paracaspase Source HGNC Symbol Acc HGNC 6819
E08	SBH1220189	ENST00000353533.10	MAP2K4	ENSG00000065559	mitogen-activated protein kinase kinase 4 Source HGNC Symbol Acc HGNC 6844
E09	SBH1220191	ENST00000369329.8	MAP3K7	ENSG00000135341	mitogen-activated protein kinase kinase kinase 7 Source HGNC Symbol Acc HGNC 6859
E10	SBH0102441	ENST00000229795.7	MAPK14	ENSG00000112062	mitogen-activated protein kinase 14 Source HGNC Symbol Acc HGNC 6876
E11	SBH0294318	ENST00000395611.7	MAPK8	ENSG00000107643	mitogen-activated protein kinase 8 Source HGNC Symbol Acc HGNC 6881
E12	SBH0384612	ENST00000373968.3	MBL2	ENSG00000165471	mannose binding lectin 2 Source HGNC Symbol Acc HGNC 6922
F01	SBH0047410	ENST00000569591.3	MRC1	ENSG00000260314	mannose receptor C-type 1 Source HGNC Symbol Acc HGNC 7228
F02	SBH0303234	ENST00000648963.1	MYD88	ENSG00000172936	MYD88, innate immune signal transduction adaptor Source HGNC Symbol Acc HGNC 7562
F03	SBH1220264	ENST00000651197.1	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
F04	SBH0552847	ENST00000216797.9	NFKBIA	ENSG00000100906	NFKB inhibitor alpha Source HGNC Symbol Acc HGNC 7797
F05	SBH1220270	ENST00000391828.7	NLRP3	ENSG00000162711	NLR family pyrin domain containing 3 Source HGNC Symbol Acc HGNC 16400
F06	SBH0084927	ENST00000571100.1	NPTX1	ENSG00000171246	neuronal pentraxin 1 Source NCBI gene Acc 4884
F07	SBH0377372	ENST00000569929.5	PLCG2	ENSG00000197943	phospholipase C gamma 2 Source HGNC Symbol Acc HGNC 9066
F08	SBH1220344	ENST00000367468.10	PTGS2	ENSG00000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
F09	SBH0083303	ENST00000539365.1	PTPN6	ENSG00000111679	protein tyrosine phosphatase, non-receptor type 6 Source HGNC Symbol Acc HGNC 9658
F10	SBH0463700	ENST00000295927.4	PTX3	ENSG00000163661	pentraxin 3 Source HGNC Symbol Acc HGNC 9692

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220348	ENST00000247470.10	PYCARD	ENSG00000103490	PYD and CARD domain containing Source HGNC Symbol Acc HGNC 16608
F12	SBH0573752	ENST00000416093.1	RAF1	ENSG00000132155	Raf-1 proto-oncogene, serine/threonine kinase Source HGNC Symbol Acc HGNC 9829
G01	SBH0435868	ENST00000573852.5	SCARF1	ENSG00000074660	scavenger receptor class F member 1 Source HGNC Symbol Acc HGNC 16820
G02	SBH1220396	ENST00000372292.8	SFTPD	ENSG00000133661	surfactant protein D Source HGNC Symbol Acc HGNC 10803
G03	SBH1220413	ENST00000330871.3	SOCS3	ENSG00000184557	suppressor of cytokine signaling 3 Source HGNC Symbol Acc HGNC 19391
G04	SBH0534686	ENST00000639743.1	ST3GAL5	ENSG00000115525	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 Source HGNC Symbol Acc HGNC 10872
G05	SBH0333289	ENST00000361099.7	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G06	SBH0411535	ENST00000375746.1	SYK	ENSG00000165025	spleen associated tyrosine kinase Source HGNC Symbol Acc HGNC 11491
G07	SBH0413608	ENST00000392680.6	TIRAP	ENSG00000150455	TIR domain containing adaptor protein Source HGNC Symbol Acc HGNC 17192
G08	SBH0671922	ENST00000642700.1	TLR2	ENSG00000137462	toll like receptor 2 Source HGNC Symbol Acc HGNC 11848
G09	SBH0092782	ENST00000355622.8	TLR4	ENSG00000136869	toll like receptor 4 Source HGNC Symbol Acc HGNC 11850
G10	SBH1220466	ENST00000360658.2	TLR9	ENSG00000239732	toll like receptor 9 Source HGNC Symbol Acc HGNC 15633
G11	SBH1220471	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G12	SBH1220493	ENST00000526995.6	TRAF6	ENSG00000175104	TNF receptor associated factor 6 Source HGNC Symbol Acc HGNC 12036
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.