

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

## Human NFκB Signaling Targets

Cat. no. 249950 SBHS-225ZA

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](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	ADM	AGT	AKT1	ALDH3A2	BCL2A1	BCL2L1	BIRC2	BIRC3	C3	CCL11	CCL2	CCL22
B	CCL5	CCND1	CCR5	CD40	CD69	CD80	CD83	CDKN1A	CFB	CSF1	CSF2	CSF2RB
C	CSF3	CXCL1	CXCL10	CXCL2	CXCL9	EGFR	EGR2	F3	F8	FAS	FASLG	GADD45B
D	ICAM1	IFNB1	IFNG	IL12B	IL15	IL1A	IL1B	IL1R2	IL1RN	IL2	IL2RA	IL4
E	IL6	CXCL8	INS	IRF1	LTA	LTB	MAP2K6	MMP9	MYC	MYD88	NCOA3	NFKB1
F	NFKB2	NFKBIA	NQO1	NR4A2	PDGFB	PLAU	PTGS2	REL	RELA	RELB	SELE	SELP
G	SNAP25	SOD2	STAT1	STAT3	STAT5B	TNF	TNFRSF1B	TNFSF10	TP53	TRAF2	VCAM1	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	SBH1219728	ENST00000525063.2	ADM	ENSG00000148926	adrenomedullin Source HGNC Symbol Acc HGNC 259
A02	SBH1219729	ENST00000366667.5	AGT	ENSG00000135744	angiotensinogen Source HGNC Symbol Acc HGNC 333
A03	SBH0095396	ENST00000555528.5	AKT1	ENSG00000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A04	SBH0367037	ENST00000631291.2	ALDH3A2	ENSG00000072210	aldehyde dehydrogenase 3 family member A2 Source HGNC Symbol Acc HGNC 403
A05	SBH1219787	ENST00000267953.4	BCL2A1	ENSG00000140379	BCL2 related protein A1 Source HGNC Symbol Acc HGNC 991
A06	SBH0216029	ENST00000450273.1	BCL2L1	ENSG00000171552	BCL2 like 1 Source HGNC Symbol Acc HGNC 992
A07	SBH1219795	ENST00000530675.5	BIRC2	ENSG00000110330	baculoviral IAP repeat containing 2 Source HGNC Symbol Acc HGNC 590
A08	SBH1219796	ENST00000263464.8	BIRC3	ENSG00000023445	baculoviral IAP repeat containing 3 Source HGNC Symbol Acc HGNC 591
A09	SBH0244130	ENST00000245907.10	C3	ENSG00000125730	complement C3 Source HGNC Symbol Acc HGNC 1318
A10	SBH0204041	ENST00000305869.3	CCL11	ENSG00000172156	C-C motif chemokine ligand 11 Source HGNC Symbol Acc HGNC 10610
A11	SBH0228134	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A12	SBH1219836	ENST00000219235.5	CCL22	ENSG00000102962	C-C motif chemokine ligand 22 Source HGNC Symbol Acc HGNC 10621
B01	SBH1219840	ENST00000603197.6	CCL5	ENSG00000271503	C-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10632
B02	SBH0434090	ENST00000227507.2	CCND1	ENSG00000110092	cyclin D1 Source HGNC Symbol Acc HGNC 1582
B03	SBH1219854	ENST00000292303.4	CCR5	ENSG00000160791	C-C motif chemokine receptor 5 (gene/pseudogene) Source HGNC Symbol Acc HGNC 1606
B04	SBH1219861	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
B05	SBH0337223	ENST00000416624.6	CD69	ENSG00000110848	CD69 molecule Source HGNC Symbol Acc HGNC 1694
B06	SBH1219864	ENST00000264246.8	CD80	ENSG00000121594	CD80 molecule Source HGNC Symbol Acc HGNC 1700
B07	SBH0608579	ENST00000379153.4	CD83	ENSG00000112149	CD83 molecule Source HGNC Symbol Acc HGNC 1703
B08	SBH0608500	ENST00000244741.9	CDKN1A	ENSG00000124762	cyclin dependent kinase inhibitor 1A Source HGNC Symbol Acc HGNC 1784
B09	SBH0321624	ENST00000483004.1	CFB	ENSG00000243649	complement factor B Source HGNC Symbol Acc HGNC 1037
B10	SBH1219913	ENST00000420111.6	CSF1	ENSG00000184371	colony stimulating factor 1 Source HGNC Symbol Acc HGNC 2432
B11	SBH1219914	ENST00000296871.4	CSF2	ENSG00000164400	colony stimulating factor 2 Source HGNC Symbol Acc HGNC 2434
B12	SBH0145061	ENST00000403662.8	CSF2RB	ENSG00000100368	colony stimulating factor 2 receptor beta common subunit Source HGNC Symbol Acc HGNC 2436
C01	SBH0378721	ENST00000225474.6	CSF3	ENSG00000108342	colony stimulating factor 3 Source HGNC Symbol Acc HGNC 2438
C02	SBH0404660	ENST00000395761.3	CXCL1	ENSG00000163739	C-X-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 4602
C03	SBH1219927	ENST00000306602.3	CXCL10	ENSG00000169245	C-X-C motif chemokine ligand 10 Source HGNC Symbol Acc HGNC 10637
C04	SBH1219929	ENST00000508487.3	CXCL2	ENSG00000081041	C-X-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 4603
C05	SBH0383348	ENST00000264888.5	CXCL9	ENSG00000138755	C-X-C motif chemokine ligand 9 Source HGNC Symbol Acc HGNC 7098
C06	SBH1219970	ENST00000454757.6	EGFR	ENSG00000146648	epidermal growth factor receptor Source HGNC Symbol Acc HGNC 3236
C07	SBH0476440	ENST00000242480.4	EGR2	ENSG00000122877	early growth response 2 Source HGNC Symbol Acc HGNC 3239
C08	SBH1219990	ENST00000334047.12	F3	ENSG00000117525	coagulation factor III, tissue factor Source HGNC Symbol Acc HGNC 3541
C09	SBH0293475	ENST00000360256.9	F8	ENSG00000185010	coagulation factor VIII Source HGNC Symbol Acc HGNC 3546
C10	SBH1219994	ENST00000652046.1	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
		ENST00000367		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH1219995	721.3	FASLG	117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
C12	SBH1220020	ENST00000587345.1	GADD45B	ENSG00000099860	growth arrest and DNA damage inducible beta Source HGNC Symbol Acc HGNC 4096
D01	SBH1220076	ENST00000264832.8	ICAM1	ENSG00000090339	intercellular adhesion molecule 1 Source HGNC Symbol Acc HGNC 5344
D02	SBH1220089	ENST00000380232.4	IFNB1	ENSG000000171855	interferon beta 1 Source HGNC Symbol Acc HGNC 5434
D03	SBH1220090	ENST00000229135.4	IFNG	ENSG000000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
D04	SBH1220099	ENST00000231228.2	IL12B	ENSG000000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
D05	SBH1220101	ENST00000296545.11	IL15	ENSG000000164136	interleukin 15 Source HGNC Symbol Acc HGNC 5977
D06	SBH0663647	ENST00000263339.3	IL1A	ENSG000000115008	interleukin 1 alpha Source HGNC Symbol Acc HGNC 5991
D07	SBH0079231	ENST00000263341.6	IL1B	ENSG000000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
D08	SBH0202838	ENST00000332549.8	IL1R2	ENSG000000115590	interleukin 1 receptor type 2 Source HGNC Symbol Acc HGNC 5994
D09	SBH0473919	ENST00000354115.6	IL1RN	ENSG000000136689	interleukin 1 receptor antagonist Source HGNC Symbol Acc HGNC 6000
D10	SBH0225582	ENST00000226730.4	IL2	ENSG000000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
D11	SBH0567688	ENST00000447847.1	IL2RA	ENSG000000134460	interleukin 2 receptor subunit alpha Source HGNC Symbol Acc HGNC 6008
D12	SBH1220109	ENST00000350025.2	IL4	ENSG000000113520	interleukin 4 Source HGNC Symbol Acc HGNC 6014
E01	SBH1220111	ENST00000401630.7	IL6	ENSG000000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
E02	SBH1219932	ENST00000401931.1	CXCL8	ENSG000000169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
E03	SBH0403664	ENST00000250971.7	INS	ENSG000000254647	insulin Source HGNC Symbol Acc HGNC 6081
E04	SBH1220122	ENST00000245414.9	IRF1	ENSG000000125347	interferon regulatory factor 1 Source HGNC Symbol Acc HGNC 6116
E05	SBH0249281	ENST00000418386.2	LTA	ENSG000000226979	lymphotoxin alpha Source HGNC Symbol Acc HGNC 6709
E06	SBH1220578	ENST00000429299.2	LTB	ENSG000000227507	lymphotoxin beta Source HGNC Symbol Acc HGNC 6711
E07	SBH1218288	ENST00000588110.5	MAP2K6	ENSG000000108984	mitogen-activated protein kinase kinase 6 Source HGNC Symbol Acc HGNC 6846
E08	SBH0471278	ENST00000372330.3	MMP9	ENSG000000100985	matrix metalloproteinase 9 Source HGNC Symbol Acc HGNC 7176
E09	SBH0426145	ENST00000524013.1	MYC	ENSG000000136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
E10	SBH0303234	ENST00000648963.1	MYD88	ENSG000000172936	MYD88, innate immune signal transduction adaptor Source HGNC Symbol Acc HGNC 7562
E11	SBH1220237	ENST00000371998.8	NCOA3	ENSG000000124151	nuclear receptor coactivator 3 Source HGNC Symbol Acc HGNC 7670
E12	SBH1220264	ENST00000651197.1	NFKB1	ENSG000000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
F01	SBH1220265	ENST00000652277.1	NFKB2	ENSG000000077150	nuclear factor kappa B subunit 2 Source HGNC Symbol Acc HGNC 7795
F02	SBH0552847	ENST00000216797.9	NFKBIA	ENSG000000100906	NFKB inhibitor alpha Source HGNC Symbol Acc HGNC 7797
F03	SBH1220279	ENST00000320623.10	NQO1	ENSG000000181019	NAD(P)H quinone dehydrogenase 1 Source HGNC Symbol Acc HGNC 2874
F04	SBH0444745	ENST00000339562.9	NR4A2	ENSG000000153234	nuclear receptor subfamily 4 group A member 2 Source HGNC Symbol Acc HGNC 7981
F05	SBH0091370	ENST00000331163.10	PDGFB	ENSG000000100311	platelet derived growth factor subunit B Source HGNC Symbol Acc HGNC 8800
F06	SBH1220315	ENST00000446342.5	PLAU	ENSG000000122861	plasminogen activator, urokinase Source HGNC Symbol Acc HGNC 9052
F07	SBH1220344	ENST00000367468.10	PTGS2	ENSG000000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
F08	SBH1220362	ENST00000394479.3	REL	ENSG000000162924	REL proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9954
F09	SBH1220363	ENST00000532999.5	RELA	ENSG000000173039	RELA proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9955
F10	SBH0657475	ENST00000625761.2	RELB	ENSG000000104856	RELB proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9956

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220384	ENST00000367774.1	SELE	ENSG00000007908	selectin E Source HGNC Symbol Acc HGNC 10718
F12	SBH1220385	ENST00000426706.6	SELP	ENSG000000174175	selectin P Source HGNC Symbol Acc HGNC 10721
G01	SBH0261658	ENST00000495883.1	SNAP25	ENSG000000132639	synaptosome associated protein 25 Source HGNC Symbol Acc HGNC 11132
G02	SBH1220414	ENST00000535561.5	SOD2	ENSG000000112096	superoxide dismutase 2 Source HGNC Symbol Acc HGNC 11180
G03	SBH0333289	ENST00000361099.7	STAT1	ENSG000000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G04	SBH0341614	ENST00000404395.3	STAT3	ENSG000000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G05	SBH0472958	ENST00000481253.2	STAT5B	ENSG000000173757	signal transducer and activator of transcription 5B Source HGNC Symbol Acc HGNC 11367
G06	SBH1220471	ENST00000449264.3	TNF	ENSG000000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G07	SBH1220475	ENST00000536782.2	TNFRSF1B	ENSG000000028137	TNF receptor superfamily member 1B Source HGNC Symbol Acc HGNC 11917
G08	SBH1220477	ENST00000241261.7	TNFSF10	ENSG000000121858	TNF superfamily member 10 Source HGNC Symbol Acc HGNC 11925
G09	SBH1220486	ENST00000445888.6	TP53	ENSG000000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G10	SBH1220492	ENST00000247668.7	TRAF2	ENSG000000127191	TNF receptor associated factor 2 Source HGNC Symbol Acc HGNC 12032
G11	SBH1220515	ENST00000294728.7	VCAM1	ENSG000000162692	vascular cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 12663
G12	SBH1220539	ENST00000434753.7	XIAP	ENSG000000101966	X-linked inhibitor of apoptosis Source HGNC Symbol Acc HGNC 592
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG000000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG000000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG000000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG000000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG000000089157	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 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 $\mu$ l QuantiNova SYBR Green RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ 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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