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

Human Dendritic & Antigen Presenting Cell

Cat. no. 249950 SBHS-406ZA

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	CCL11	CCL13	CCL16	CCL19	CCL2	CCL3	CCL5	CCL7	CCL8	CCR1	CCR2	CCR3
B	CCR5	CD1A	CD1B	CD1C	CD1D	CD2	CD209	CD28	CD4	CD40	CD40LG	CD44
C	CD74	CD80	CD86	CD8A	CDC42	CDKN1A	CEBPA	CLEC4C	CSF1R	CSF2	CXCL1	CXCL10
D	CXCL12	CXCL2	CXCR1	CXCR4	ERBB2	FAS	FCER1A	FCER2	FCGR1A	FLT3	FLT3LG	HLA-A
E	HLA-DMA	HLA-DPA1	ICAM1	ICAM2	IFNG	IL10	IL12A	IL12B	IL16	IL2	IL6	CXCL8
F	IRF7	IRF8	ITGAM	ITGB2	LRP1	LYN	MIF	NFKB1	PTPRC	RAC1	RELA	RELB
G	STAT3	TAP2	TAPBP	TGFB1	THBS1	TLR1	TLR2	TLR7	TLR9	TNF	TNFSF11	VCAM1
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	SBH0204041	ENST00000305869.3	CCL11	ENSG00000172156	C-C motif chemokine ligand 11 Source HGNC Symbol Acc HGNC 10610
A02	SBH1219830	ENST00000225844.7	CCL13	ENSG00000181374	C-C motif chemokine ligand 13 Source HGNC Symbol Acc HGNC 10611
A03	SBH1219832	ENST00000611905.2	CCL16	ENSG00000275152	C-C motif chemokine ligand 16 Source HGNC Symbol Acc HGNC 10614
A04	SBH1219833	ENST00000311925.7	CCL19	ENSG00000172724	C-C motif chemokine ligand 19 Source HGNC Symbol Acc HGNC 10617
A05	SBH0228134	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A06	SBH1219838	ENST00000613922.2	CCL3	ENSG00000277632	C-C motif chemokine ligand 3 Source HGNC Symbol Acc HGNC 10627
A07	SBH1219840	ENST00000603197.6	CCL5	ENSG00000271503	C-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10632
A08	SBH0098305	ENST00000378569.2	CCL7	ENSG00000108688	C-C motif chemokine ligand 7 Source HGNC Symbol Acc HGNC 10634
A09	SBH1219841	ENST00000394620.2	CCL8	ENSG00000108700	C-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 10635
A10	SBH1219851	ENST00000296140.4	CCR1	ENSG00000163823	C-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 1602
A11	SBH0387563	ENST00000445132.2	CCR2	ENSG00000121807	C-C motif chemokine receptor 2 Source HGNC Symbol Acc HGNC 1603
A12	SBH1219852	ENST00000545097.1	CCR3	ENSG00000183625	C-C motif chemokine receptor 3 Source HGNC Symbol Acc HGNC 1604
B01	SBH1219854	ENST00000292303.4	CCR5	ENSG00000160791	C-C motif chemokine receptor 5 (gene/pseudogene) Source HGNC Symbol Acc HGNC 1606
B02	SBH0173234	ENST00000289429.6	CD1A	ENSG00000158477	CD1a molecule Source HGNC Symbol Acc HGNC 1634
B03	SBH0103575	ENST00000368168.3	CD1B	ENSG00000158485	CD1b molecule Source HGNC Symbol Acc HGNC 1635
B04	SBH0544433	ENST00000368170.8	CD1C	ENSG00000158481	CD1c molecule Source HGNC Symbol Acc HGNC 1636
B05	SBH0361611	ENST00000368171.3	CD1D	ENSG00000158473	CD1d molecule Source HGNC Symbol Acc HGNC 1637
B06	SBH0125518	ENST00000369477.1	CD2	ENSG00000116824	CD2 molecule Source HGNC Symbol Acc HGNC 1639
B07	SBH0506763	ENST00000601951.5	CD209	ENSG00000090659	CD209 molecule Source HGNC Symbol Acc HGNC 1641
B08	SBH0430835	ENST00000458610.6	CD28	ENSG00000178562	CD28 molecule Source HGNC Symbol Acc HGNC 1653
B09	SBH1219860	ENST00000011653.9	CD4	ENSG00000010610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
B10	SBH1219861	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
B11	SBH1219862	ENST00000370629.6	CD40LG	ENSG00000102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
B12	SBH0074994	ENST00000428726.7	CD44	ENSG00000026508	CD44 molecule (Indian blood group) Source HGNC Symbol Acc HGNC 1681
C01	SBH0506706	ENST00000523813.1	CD74	ENSG00000019582	CD74 molecule Source HGNC Symbol Acc HGNC 1697
C02	SBH1219864	ENST00000264246.8	CD80	ENSG00000121594	CD80 molecule Source HGNC Symbol Acc HGNC 1700
C03	SBH0280451	ENST00000393627.6	CD86	ENSG00000114013	CD86 molecule Source HGNC Symbol Acc HGNC 1705
C04	SBH0013530	ENST00000283635.7	CD8A	ENSG00000153563	CD8a molecule Source HGNC Symbol Acc HGNC 1706
C05	SBH0651826	ENST00000651171.1	CDC42	ENSG00000070831	cell division cycle 42 Source HGNC Symbol Acc HGNC 1736
C06	SBH0608500	ENST00000244741.9	CDKN1A	ENSG00000124762	cyclin dependent kinase inhibitor 1A Source HGNC Symbol Acc HGNC 1784
C07	SBH0261466	ENST00000498907.3	CEBPA	ENSG00000245848	CCAAT enhancer binding protein alpha Source HGNC Symbol Acc HGNC 1833
C08	SBH0121008	ENST00000354629.9	CLEC4C	ENSG00000198178	C-type lectin domain family 4 member C Source HGNC Symbol Acc HGNC 13258
C09	SBH0210500	ENST00000286301.7	CSF1R	ENSG00000182578	colony stimulating factor 1 receptor Source HGNC Symbol Acc HGNC 2433
C10	SBH1219914	ENST00000296871.4	CSF2	ENSG00000164400	colony stimulating factor 2 Source HGNC Symbol Acc HGNC 2434
		ENST00000395		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0404660	761.3	CXCL1	163739	C-X-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 4602
C12	SBH1219927	ENST00000306602.3	CXCL10	ENSG00000169245	C-X-C motif chemokine ligand 10 Source HGNC Symbol Acc HGNC 10637
D01	SBH0010818	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
D02	SBH1219929	ENST00000508487.3	CXCL2	ENSG00000081041	C-X-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 4603
D03	SBH0591583	ENST00000295683.2	CXCR1	ENSG00000163464	C-X-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 6026
D04	SBH0591410	ENST00000241393.3	CXCR4	ENSG00000121966	C-X-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 2561
D05	SBH0056013	ENST00000269571.9	ERBB2	ENSG00000141736	erb-b2 receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 3430
D06	SBH1219994	ENST00000652046.1	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
D07	SBH0529269	ENST00000368114.1	FCER1A	ENSG00000179639	Fc fragment of IgE receptor Ia Source HGNC Symbol Acc HGNC 3609
D08	SBH0569109	ENST00000346664.9	FCER2	ENSG00000104921	Fc fragment of IgE receptor II Source HGNC Symbol Acc HGNC 3612
D09	SBH0043666	ENST00000444948.5	FCGR1A	ENSG00000150337	Fc fragment of IgG receptor Ia Source HGNC Symbol Acc HGNC 3613
D10	SBH0649679	ENST00000241453.11	FLT3	ENSG00000122025	fms related tyrosine kinase 3 Source HGNC Symbol Acc HGNC 3765
D11	SBH0334488	ENST00000601800.5	FLT3LG	ENSG00000090554	fms related tyrosine kinase 3 ligand Source HGNC Symbol Acc HGNC 3766
D12	SBH1220063	ENST00000376806.9	HLA-A	ENSG00000206503	major histocompatibility complex, class I, A Source HGNC Symbol Acc HGNC 4931
E01	SBH0374939	ENST00000374843.9	HLA-DMA	ENSG00000204257	major histocompatibility complex, class II, DM alpha Source HGNC Symbol Acc HGNC 4934
E02	SBH0219628	ENST00000463066.1	HLA-DPA1	ENSG00000231389	major histocompatibility complex, class II, DP alpha 1 Source HGNC Symbol Acc HGNC 4938
E03	SBH1220076	ENST00000264832.8	ICAM1	ENSG00000090339	intercellular adhesion molecule 1 Source HGNC Symbol Acc HGNC 5344
E04	SBH0420556	ENST00000579687.5	ICAM2	ENSG00000108622	intercellular adhesion molecule 2 Source HGNC Symbol Acc HGNC 5345
E05	SBH1220090	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
E06	SBH1220095	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
E07	SBH1220098	ENST00000305579.7	IL12A	ENSG00000168811	interleukin 12A Source HGNC Symbol Acc HGNC 5969
E08	SBH1220099	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
E09	SBH1220102	ENST00000394660.6	IL16	ENSG00000172349	interleukin 16 Source HGNC Symbol Acc HGNC 5980
E10	SBH0225582	ENST00000226730.4	IL2	ENSG00000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
E11	SBH1220111	ENST00000401630.7	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
E12	SBH1219932	ENST00000401931.1	CXCL8	ENSG00000169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
F01	SBH0251148	ENST00000397574.7	IRF7	ENSG00000185507	interferon regulatory factor 7 Source HGNC Symbol Acc HGNC 6122
F02	SBH0216986	ENST00000268638.10	IRF8	ENSG00000140968	interferon regulatory factor 8 Source HGNC Symbol Acc HGNC 5358
F03	SBH0245852	ENST00000287497.13	ITGAM	ENSG00000169896	integrin subunit alpha M Source HGNC Symbol Acc HGNC 6149
F04	SBH0032107	ENST00000397857.5	ITGB2	ENSG00000160255	integrin subunit beta 2 Source HGNC Symbol Acc HGNC 6155
F05	SBH0296428	ENST00000243077.7	LRP1	ENSG00000123384	LDL receptor related protein 1 Source HGNC Symbol Acc HGNC 6692
F06	SBH0578082	ENST00000519728.6	LYN	ENSG00000254087	LYN proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 6735
F07	SBH1220212	ENST00000215754.8	MIF	ENSG00000240972	macrophage migration inhibitory factor Source HGNC Symbol Acc HGNC 7097
F08	SBH1220264	ENST00000651197.1	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
F09	SBH0081266	ENST00000491302.1	PTPRC	ENSG00000081237	protein tyrosine phosphatase, receptor type C Source HGNC Symbol Acc HGNC 9666
F10	SBH1220352	ENST00000356142.4	RAC1	ENSG00000136238	Rac family small GTPase 1 Source HGNC Symbol Acc HGNC 9801

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220363	ENST00000532999.5	RELA	ENSG00000173039	RELA proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9955
F12	SBH0657475	ENST00000625761.2	RELB	ENSG00000104856	RELB proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9956
G01	SBH0341614	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G02	SBH0627392	ENST00000374899.8	TAP2	ENSG00000204267	transporter 2, ATP binding cassette subfamily B member Source HGNC Symbol Acc HGNC 44
G03	SBH0192860	ENST00000434618.6	TAPBP	ENSG00000231925	TAP binding protein Source HGNC Symbol Acc HGNC 11566
G04	SBH1220443	ENST00000598758.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G05	SBH1220450	ENST00000260356.5	THBS1	ENSG00000137801	thrombospondin 1 Source HGNC Symbol Acc HGNC 11785
G06	SBH1220460	ENST00000506146.5	TLR1	ENSG00000174125	toll like receptor 1 Source HGNC Symbol Acc HGNC 11847
G07	SBH0671922	ENST00000642700.1	TLR2	ENSG00000137462	toll like receptor 2 Source HGNC Symbol Acc HGNC 11848
G08	SBH1220465	ENST00000380659.4	TLR7	ENSG00000196664	toll like receptor 7 Source HGNC Symbol Acc HGNC 15631
G09	SBH1220466	ENST00000360658.2	TLR9	ENSG00000239732	toll like receptor 9 Source HGNC Symbol Acc HGNC 15633
G10	SBH1220471	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G11	SBH1220478	ENST00000239849.8	TNFSF11	ENSG00000120659	TNF superfamily member 11 Source HGNC Symbol Acc HGNC 11926
G12	SBH1220515	ENST00000294728.7	VCAM1	ENSG00000162692	vascular cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 12663
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.

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