

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

Human Cell Surface Markers

Cat. no. 249950 SBHS-055ZR

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	ALCAM	C5AR1	CD160	CD163	CD19	CD1A	CD1C	CD1D	CD2	CD209	CD22	CD24
B	CD244	CD247	CD28	CD37	CD38	CD3D	CD3G	CD4	CD40	CD40LG	CD5	CD6
C	CD63	CD69	CD7	CD70	CD72	CD74	CD79A	CD79B	CD80	CD83	CD86	CD8A
D	CD88	CD96	CHST10	COL1A1	COL1A2	CR2	CSF1R	CTLA4	DPP4	ENG	EPCAM	FAS
E	FCER1A	FCER2	FCGR1A	HLA-A	HLA-DRA	ICAM2	IL12RB1	IL1R2	IL2RA	ITGA1	ITGA2	ITGA3
F	KLRB1	KLRC1	KLRD1	KRT18	KRT5	KRT8	MS4A1	MYH10	MYH9	MYOCD	NCAM1	NOS3
G	NTSE	PECAM1	RETN	S100A8	SELP	ST6GAL1	TEK	TNFRSF4	TNFRSF8	TPSAB1	VCAM1	VWF
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	SBH0246648	ENST00000481337.5	ALCAM	ENSG00000170017	activated leukocyte cell adhesion molecule Source HGNC Symbol Acc HGNC 400
A02	SBH0627132	ENST00000355085.4	C5AR1	ENSG00000197405	complement C5a receptor 1 Source HGNC Symbol Acc HGNC 1338
A03	SBH0139470	ENST00000616463.1	CD160	ENSG00000117281	CD160 molecule Source HGNC Symbol Acc HGNC 17013
A04	SBH0054623	ENST00000359156.8	CD163	ENSG00000177575	CD163 molecule Source HGNC Symbol Acc HGNC 1631
A05	SBH0226289	ENST00000567368.1	CD19	ENSG00000177455	CD19 molecule Source HGNC Symbol Acc HGNC 1633
A06	SBH0173234	ENST00000289429.6	CD1A	ENSG00000158477	CD1a molecule Source HGNC Symbol Acc HGNC 1634
A07	SBH0544433	ENST00000368170.8	CD1C	ENSG00000158481	CD1c molecule Source HGNC Symbol Acc HGNC 1636
A08	SBH0361611	ENST00000368171.3	CD1D	ENSG00000158473	CD1d molecule Source HGNC Symbol Acc HGNC 1637
A09	SBH0125518	ENST00000369477.1	CD2	ENSG00000116824	CD2 molecule Source HGNC Symbol Acc HGNC 1639
A10	SBH0506763	ENST00000601951.5	CD209	ENSG00000090659	CD209 molecule Source HGNC Symbol Acc HGNC 1641
A11	SBH0388213	ENST00000599811.5	CD22	ENSG00000012124	CD22 molecule Source HGNC Symbol Acc HGNC 1643
A12	SBH0230547	ENST00000619133.4	CD24	ENSG000000272398	CD24 molecule Source HGNC Symbol Acc HGNC 1645
B01	SBH0130888	ENST00000322302.7	CD244	ENSG000000122223	CD244 molecule Source HGNC Symbol Acc HGNC 18171
B02	SBH0010780	ENST00000483825.5	CD247	ENSG000000198821	CD247 molecule Source HGNC Symbol Acc HGNC 1677
B03	SBH0430835	ENST00000458610.6	CD28	ENSG000000178562	CD28 molecule Source HGNC Symbol Acc HGNC 1653
B04	SBH0185992	ENST00000535669.6	CD37	ENSG000000104894	CD37 molecule Source HGNC Symbol Acc HGNC 1666
B05	SBH0584578	ENST00000502843.5	CD38	ENSG00000004468	CD38 molecule Source HGNC Symbol Acc HGNC 1667
B06	SBH0400296	ENST00000526561.1	CD3D	ENSG000000167286	CD3d molecule Source HGNC Symbol Acc HGNC 1673
B07	SBH0490458	ENST00000528540.5	CD3G	ENSG000000160654	CD3g molecule Source HGNC Symbol Acc HGNC 1675
B08	SBH1219860	ENST00000011653.9	CD4	ENSG000000010610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
B09	SBH1219861	ENST00000372285.7	CD40	ENSG000000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
B10	SBH1219862	ENST00000370629.6	CD40LG	ENSG000000102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
B11	SBH0543140	ENST00000544014.1	CD5	ENSG000000110448	CD5 molecule Source HGNC Symbol Acc HGNC 1685
B12	SBH0003146	ENST00000352009.9	CD6	ENSG000000013725	CD6 molecule Source HGNC Symbol Acc HGNC 1691
C01	SBH0227035	ENST00000420846.7	CD63	ENSG000000135404	CD63 molecule Source HGNC Symbol Acc HGNC 1692
C02	SBH0337223	ENST00000416624.6	CD69	ENSG000000110848	CD69 molecule Source HGNC Symbol Acc HGNC 1694
C03	SBH0547038	ENST00000578509.1	CD7	ENSG000000173762	CD7 molecule Source HGNC Symbol Acc HGNC 1695
C04	SBH1219863	ENST00000245903.4	CD70	ENSG000000125726	CD70 molecule Source NCBI gene Acc 970
C05	SBH0410925	ENST00000470387.5	CD72	ENSG000000137101	CD72 molecule Source HGNC Symbol Acc HGNC 1696
C06	SBH0506706	ENST00000523813.1	CD74	ENSG000000019582	CD74 molecule Source HGNC Symbol Acc HGNC 1697
C07	SBH0089394	ENST00000221972.7	CD79A	ENSG000000105369	CD79a molecule Source HGNC Symbol Acc HGNC 1698
C08	SBH0275993	ENST00000006750.7	CD79B	ENSG000000007312	CD79b molecule Source HGNC Symbol Acc HGNC 1699
C09	SBH1219864	ENST00000264246.8	CD80	ENSG000000121594	CD80 molecule Source HGNC Symbol Acc HGNC 1700
C10	SBH0608579	ENST00000379153.4	CD83	ENSG000000112149	CD83 molecule Source HGNC Symbol Acc HGNC 1703
		ENST00000393		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0280451	627.6	CD86	114013	CD86 molecule Source HGNC Symbol Acc HGNC 1705
C12	SBH0013530	ENST00000283635.7	CD8A	ENSG00000153563	CD8a molecule Source HGNC Symbol Acc HGNC 1706
D01	SBH0614165	ENST00000390655.11	CD8B	ENSG00000172116	CD8b molecule Source HGNC Symbol Acc HGNC 1707
D02	SBH0266738	ENST00000438817.6	CD96	ENSG00000153283	CD96 molecule Source HGNC Symbol Acc HGNC 16892
D03	SBH0220904	ENST00000448989.5	CHST10	ENSG00000115526	carbohydrate sulfotransferase 10 Source HGNC Symbol Acc HGNC 19650
D04	SBH0268763	ENST00000225964.9	COL1A1	ENSG00000108821	collagen type I alpha 1 chain Source HGNC Symbol Acc HGNC 2197
D05	SBH0096733	ENST00000297268.10	COL1A2	ENSG00000164692	collagen type I alpha 2 chain Source HGNC Symbol Acc HGNC 2198
D06	SBH0549037	ENST00000367058.7	CR2	ENSG00000117322	complement C3d receptor 2 Source HGNC Symbol Acc HGNC 2336
D07	SBH0210500	ENST00000286301.7	CSF1R	ENSG00000182578	colony stimulating factor 1 receptor Source HGNC Symbol Acc HGNC 2433
D08	SBH0671849	ENST0000047206.1	CTLA4	ENSG00000163599	cytotoxic T-lymphocyte associated protein 4 Source HGNC Symbol Acc HGNC 2505
D09	SBH0072994	ENST00000490286.5	DPP4	ENSG00000197635	dipeptidyl peptidase 4 Source HGNC Symbol Acc HGNC 3009
D10	SBH1219975	ENST00000480266.5	ENG	ENSG00000106991	endoglin Source HGNC Symbol Acc HGNC 3349
D11	SBH0075185	ENST00000263735.8	EPCAM	ENSG00000119888	epithelial cell adhesion molecule Source HGNC Symbol Acc HGNC 11529
D12	SBH1219994	ENST00000652046.1	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
E01	SBH0529269	ENST00000368114.1	FCER1A	ENSG00000179639	Fc fragment of IgE receptor Ia Source HGNC Symbol Acc HGNC 3609
E02	SBH0569109	ENST00000346664.9	FCER2	ENSG00000104921	Fc fragment of IgE receptor II Source HGNC Symbol Acc HGNC 3612
E03	SBH0043666	ENST00000444948.5	FCGR1A	ENSG00000150337	Fc fragment of IgG receptor Ia Source HGNC Symbol Acc HGNC 3613
E04	SBH1220063	ENST00000376806.9	HLA-A	ENSG00000206503	major histocompatibility complex, class I, A Source HGNC Symbol Acc HGNC 4931
E05	SBH0488935	ENST00000374982.5	HLA-DRA	ENSG00000204287	major histocompatibility complex, class II, DR alpha Source HGNC Symbol Acc HGNC 4947
E06	SBH0420556	ENST00000579687.5	ICAM2	ENSG00000108622	intercellular adhesion molecule 2 Source HGNC Symbol Acc HGNC 5345
E07	SBH0452783	ENST00000430026.7	IL12RB1	ENSG00000096996	interleukin 12 receptor subunit beta 1 Source HGNC Symbol Acc HGNC 5971
E08	SBH0202838	ENST00000332549.8	IL1R2	ENSG00000115590	interleukin 1 receptor type 2 Source HGNC Symbol Acc HGNC 5994
E09	SBH0567688	ENST00000447847.1	IL2RA	ENSG00000134460	interleukin 2 receptor subunit alpha Source HGNC Symbol Acc HGNC 6008
E10	SBH1220129	ENST00000282588.6	ITGA1	ENSG00000213949	integrin subunit alpha 1 Source HGNC Symbol Acc HGNC 6134
E11	SBH1220130	ENST00000296585.10	ITGA2	ENSG00000164171	integrin subunit alpha 2 Source HGNC Symbol Acc HGNC 6137
E12	SBH1220131	ENST00000007722.11	ITGA3	ENSG00000005884	integrin subunit alpha 3 Source HGNC Symbol Acc HGNC 6139
F01	SBH0344321	ENST00000229402.3	KLRB1	ENSG00000111796	killer cell lectin like receptor B1 Source HGNC Symbol Acc HGNC 6373
F02	SBH0107680	ENST00000544822.2	KLRC1	ENSG00000134545	killer cell lectin like receptor C1 Source HGNC Symbol Acc HGNC 6374
F03	SBH0414585	ENST00000540271.1	KLRD1	ENSG00000134539	killer cell lectin like receptor D1 Source HGNC Symbol Acc HGNC 6378
F04	SBH0247700	ENST00000550600.5	KRT18	ENSG00000111057	keratin 18 Source HGNC Symbol Acc HGNC 6430
F05	SBH0505202	ENST00000549511.5	KRT5	ENSG00000186081	keratin 5 Source HGNC Symbol Acc HGNC 6442
F06	SBH0594835	ENST00000547176.3	KRT8	ENSG00000170421	keratin 8 Source HGNC Symbol Acc HGNC 6446
F07	SBH0171801	ENST00000532418.1	MS4A1	ENSG00000156738	membrane spanning 4-domains A1 Source HGNC Symbol Acc HGNC 7315
F08	SBH0109230	ENST00000465458.1	MYH10	ENSG00000133026	myosin heavy chain 10 Source HGNC Symbol Acc HGNC 7568
F09	SBH0437785	ENST00000401701.1	MYH9	ENSG00000100345	myosin heavy chain 9 Source HGNC Symbol Acc HGNC 7579
F10	SBH0574869	ENST00000343344.8	MYOCD	ENSG00000141052	myocardin Source HGNC Symbol Acc HGNC 16067

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220236	ENST00000618266.4	NCAM1	ENSG00000149294	neural cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 7656
F12	SBH1220272	ENST00000297494.8	NOS3	ENSG00000164867	nitric oxide synthase 3 Source HGNC Symbol Acc HGNC 7876
G01	SBH0237971	ENST00000437581.1	NT5E	ENSG00000135318	5'-nucleotidase ecto Source HGNC Symbol Acc HGNC 8021
G02	SBH1220299	ENST00000563924.6	PECAM1	ENSG00000261371	platelet and endothelial cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 8823
G03	SBH0623598	ENST00000629642.1	RETN	ENSG00000104918	resistin Source HGNC Symbol Acc HGNC 20389
G04	SBH0133006	ENST00000477801.1	S100A8	ENSG00000143546	S100 calcium binding protein A8 Source HGNC Symbol Acc HGNC 10498
G05	SBH1220385	ENST00000426706.6	SELP	ENSG00000174175	selectin P Source HGNC Symbol Acc HGNC 10721
G06	SBH0625692	ENST00000446170.1	ST6GAL1	ENSG00000073849	ST6 beta-galactoside alpha-2,6-sialyltransferase 1 Source HGNC Symbol Acc HGNC 10860
G07	SBH1220437	ENST00000380036.9	TEK	ENSG00000120156	TEK receptor tyrosine kinase Source HGNC Symbol Acc HGNC 11724
G08	SBH0433585	ENST00000453580.1	TNFRSF4	ENSG00000186827	TNF receptor superfamily member 4 Source HGNC Symbol Acc HGNC 11918
G09	SBH0035846	ENST00000417814.3	TNFRSF8	ENSG00000120949	TNF receptor superfamily member 8 Source HGNC Symbol Acc HGNC 11923
G10	SBH0588789	ENST00000338844.8	TPSAB1	ENSG00000172236	tryptase alpha/beta 1 Source HGNC Symbol Acc HGNC 12019
G11	SBH1220515	ENST00000294728.7	VCAM1	ENSG00000162692	vascular cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 12663
G12	SBH1220522	ENST00000261405.9	VWF	ENSG00000110799	von Willebrand factor Source HGNC Symbol Acc HGNC 12726
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.

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.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.