

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

Human Th17 Response

Cat. no. 249950 SBHS-073ZR

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	CCL1	CCL2	CCL20	CCL22	CCL7	CCR2	CCR4	CCR6	CD28	CD34	CD4	CD40LG
B	CD8A	CEBPB	CLEC7A	CSF2	CSF3	CX3CL1	CXCL1	CXCL12	CXCL2	CXCL5	CXCL6	FOXP3
C	GATA3	ICAM1	ICOS	IFNG	IL10	IL12B	IL12RB1	IL12RB2	IL13	IL15	IL17A	IL17C
D	IL17D	IL17F	IL17RA	IL17RB	IL17RC	IL17RE	IL18	IL1B	IL1R1	IL2	IL21	IL22
E	IL23A	IL23R	IL25	IL27	IL3	IL4	IL5	IL6	IL6R	IL7R	CXCL8	IL9
F	IRF4	ISG20	JAK1	JAK2	MMP3	MMP9	NFATC2	NFKB1	RORA	RORC	RUNX1	S1PR1
G	SOCS1	SOCS3	STAT3	STAT4	STAT5A	STAT6	SYK	TBX21	TGFB1	TLR4	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	SBH0608459	ENST00000225842.3	CCL1	ENSG00000108702	C-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 10609
A02	SBH0228134	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A03	SBH1219834	ENST00000409189.7	CCL20	ENSG00000115009	C-C motif chemokine ligand 20 Source HGNC Symbol Acc HGNC 10619
A04	SBH1219836	ENST00000219235.5	CCL22	ENSG00000102962	C-C motif chemokine ligand 22 Source HGNC Symbol Acc HGNC 10621
A05	SBH0098305	ENST00000378569.2	CCL7	ENSG00000108688	C-C motif chemokine ligand 7 Source HGNC Symbol Acc HGNC 10634
A06	SBH0387563	ENST00000445132.2	CCR2	ENSG00000121807	C-C motif chemokine receptor 2 Source HGNC Symbol Acc HGNC 1603
A07	SBH1219853	ENST00000330953.5	CCR4	ENSG00000183813	C-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 1605
A08	SBH1219855	ENST00000646493.1	CCR6	ENSG00000112486	C-C motif chemokine receptor 6 Source HGNC Symbol Acc HGNC 1607
A09	SBH0430835	ENST00000458610.6	CD28	ENSG00000178562	CD28 molecule Source HGNC Symbol Acc HGNC 1653
A10	SBH0234693	ENST00000356522.4	CD34	ENSG00000174059	CD34 molecule Source HGNC Symbol Acc HGNC 1662
A11	SBH1219860	ENST00000011653.9	CD4	ENSG00000101610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
A12	SBH1219862	ENST00000370629.6	CD40LG	ENSG00000102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
B01	SBH0013530	ENST00000283635.7	CD8A	ENSG00000153563	CD8a molecule Source HGNC Symbol Acc HGNC 1706
B02	SBH0569983	ENST00000303004.4	CEBPB	ENSG00000172216	CCAAT enhancer binding protein beta Source HGNC Symbol Acc HGNC 1834
B03	SBH0664303	ENST00000310002.4	CLEC7A	ENSG00000172243	C-type lectin domain containing 7A Source HGNC Symbol Acc HGNC 14558
B04	SBH1219914	ENST00000296871.4	CSF2	ENSG00000164400	colony stimulating factor 2 Source HGNC Symbol Acc HGNC 2434
B05	SBH0378721	ENST00000225474.6	CSF3	ENSG00000108342	colony stimulating factor 3 Source HGNC Symbol Acc HGNC 2438
B06	SBH1219926	ENST00000563383.1	CX3CL1	ENSG000001006210	C-X-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 10647
B07	SBH0404660	ENST00000395761.3	CXCL1	ENSG00000163739	C-X-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 4602
B08	SBH0010818	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
B09	SBH1219929	ENST00000508487.3	CXCL2	ENSG000001081041	C-X-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 4603
B10	SBH1219930	ENST00000296027.5	CXCL5	ENSG00000163735	C-X-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10642
B11	SBH1219931	ENST00000226317.10	CXCL6	ENSG00000124875	C-X-C motif chemokine ligand 6 Source HGNC Symbol Acc HGNC 10643
B12	SBH0423236	ENST00000376199.7	FOXP3	ENSG000001049768	forkhead box P3 Source HGNC Symbol Acc HGNC 6106
C01	SBH0349339	ENST00000346208.4	GATA3	ENSG00000107485	GATA binding protein 3 Source HGNC Symbol Acc HGNC 4172
C02	SBH1220076	ENST00000264832.8	ICAM1	ENSG000001090339	intercellular adhesion molecule 1 Source HGNC Symbol Acc HGNC 5344
C03	SBH0382852	ENST00000435193.1	ICOS	ENSG00000163600	inducible T cell costimulator Source HGNC Symbol Acc HGNC 5351
C04	SBH1220090	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
C05	SBH1220095	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
C06	SBH1220099	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
C07	SBH0452783	ENST00000430026.7	IL12RB1	ENSG000001096996	interleukin 12 receptor subunit beta 1 Source HGNC Symbol Acc HGNC 5971
C08	SBH0090342	ENST00000371000.5	IL12RB2	ENSG000001081985	interleukin 12 receptor subunit beta 2 Source HGNC Symbol Acc HGNC 5972
C09	SBH0375568	ENST00000304506.7	IL13	ENSG00000169194	interleukin 13 Source HGNC Symbol Acc HGNC 5973
C10	SBH1220101	ENST00000296545.11	IL15	ENSG00000164136	interleukin 15 Source HGNC Symbol Acc HGNC 5977
		ENST00000340		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0451354	057.1	IL17A	112115	interleukin 17A Source HGNC Symbol Acc HGNC 5981
C12	SBH0371753	ENST00000244 241.4	IL17C	ENSG00000 124391	interleukin 17C Source HGNC Symbol Acc HGNC 5983
D01	SBH0226262	ENST00000304 920.3	IL17D	ENSG00000 172458	interleukin 17D Source HGNC Symbol Acc HGNC 5984
D02	SBH0137232	ENST00000336 123.4	IL17F	ENSG00000 112116	interleukin 17F Source HGNC Symbol Acc HGNC 16404
D03	SBH0477232	ENST00000477 874.1	IL17RA	ENSG00000 177663	interleukin 17 receptor A Source HGNC Symbol Acc HGNC 5985
D04	SBH0499119	ENST00000288 167.8	IL17RB	ENSG00000 056736	interleukin 17 receptor B Source HGNC Symbol Acc HGNC 18015
D05	SBH0607402	ENST00000498 214.6	IL17RC	ENSG00000 163702	interleukin 17 receptor C Source HGNC Symbol Acc HGNC 18358
D06	SBH0014961	ENST00000444 427.5	IL17RE	ENSG00000 163701	interleukin 17 receptor E Source HGNC Symbol Acc HGNC 18439
D07	SBH1220103	ENST00000524 595.5	IL18	ENSG00000 150782	interleukin 18 Source HGNC Symbol Acc HGNC 5986
D08	SBH0079231	ENST00000263 341.6	IL1B	ENSG00000 125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
D09	SBH1220104	ENST00000424 272.5	IL1R1	ENSG00000 115594	interleukin 1 receptor type 1 Source HGNC Symbol Acc HGNC 5993
D10	SBH0225582	ENST00000226 730.4	IL2	ENSG00000 109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
D11	SBH1220106	ENST00000611 104.2	IL21	ENSG00000 138684	interleukin 21 Source HGNC Symbol Acc HGNC 6005
D12	SBH0349355	ENST00000328 087.6	IL22	ENSG00000 127318	interleukin 22 Source HGNC Symbol Acc HGNC 14900
E01	SBH1220107	ENST00000228 534.6	IL23A	ENSG00000 110944	interleukin 23 subunit alpha Source HGNC Symbol Acc HGNC 15488
E02	SBH1220108	ENST00000347 310.9	IL23R	ENSG00000 162594	interleukin 23 receptor Source HGNC Symbol Acc HGNC 19100
E03	SBH0573219	ENST00000329 715.2	IL25	ENSG00000 166090	interleukin 25 Source HGNC Symbol Acc HGNC 13765
E04	SBH0629895	ENST00000356 897.1	IL27	ENSG00000 197272	interleukin 27 Source HGNC Symbol Acc HGNC 19157
E05	SBH0584080	ENST00000296 870.2	IL3	ENSG00000 164399	interleukin 3 Source HGNC Symbol Acc HGNC 6011
E06	SBH1220109	ENST00000350 025.2	IL4	ENSG00000 113520	interleukin 4 Source HGNC Symbol Acc HGNC 6014
E07	SBH1220110	ENST00000231 454.6	IL5	ENSG00000 113525	interleukin 5 Source HGNC Symbol Acc HGNC 6016
E08	SBH1220111	ENST00000401 630.7	IL6	ENSG00000 136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
E09	SBH1220112	ENST00000368 485.8	IL6R	ENSG00000 160712	interleukin 6 receptor Source HGNC Symbol Acc HGNC 6019
E10	SBH0481782	ENST00000514 217.5	IL7R	ENSG00000 168685	interleukin 7 receptor Source HGNC Symbol Acc HGNC 6024
E11	SBH1219932	ENST00000401 931.1	CXCL8	ENSG00000 169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
E12	SBH1220114	ENST00000274 520.1	IL9	ENSG00000 145839	interleukin 9 Source HGNC Symbol Acc HGNC 6029
F01	SBH0409342	ENST00000380 956.9	IRF4	ENSG00000 137265	interferon regulatory factor 4 Source HGNC Symbol Acc HGNC 6119
F02	SBH1220128	ENST00000559 876.1	ISG20	ENSG00000 172183	interferon stimulated exonuclease gene 20 Source HGNC Symbol Acc HGNC 6130
F03	SBH1220142	ENST00000342 505.5	JAK1	ENSG00000 162434	Janus kinase 1 Source HGNC Symbol Acc HGNC 6190
F04	SBH0334185	ENST00000381 652.3	JAK2	ENSG00000 096968	Janus kinase 2 Source HGNC Symbol Acc HGNC 6192
F05	SBH1220223	ENST00000299 855.10	MMP3	ENSG00000 149968	matrix metalloproteinase 3 Source HGNC Symbol Acc HGNC 7173
F06	SBH0471278	ENST00000372 330.3	MMP9	ENSG00000 100985	matrix metalloproteinase 9 Source HGNC Symbol Acc HGNC 7176
F07	SBH0361870	ENST00000609 943.5	NFATC2	ENSG00000 101096	nuclear factor of activated T cells 2 Source HGNC Symbol Acc HGNC 7776
F08	SBH1220264	ENST00000651 197.1	NFKB1	ENSG00000 109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
F09	SBH0660238	ENST00000551 975.5	RORA	ENSG00000 069667	RAR related orphan receptor A Source HGNC Symbol Acc HGNC 10258
F10	SBH1220375	ENST00000356 728.10	RORC	ENSG00000 143365	RAR related orphan receptor C Source HGNC Symbol Acc HGNC 10260

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0384721	ENST00000437180.5	RUNX1	ENSG00000159216	runt related transcription factor 1 Source HGNC Symbol Acc HGNC 10471
F12	SBH0181986	ENST00000305352.6	S1PR1	ENSG00000170989	sphingosine-1-phosphate receptor 1 Source HGNC Symbol Acc HGNC 3165
G01	SBH1220412	ENST00000644787.1	SOCS1	ENSG00000185338	suppressor of cytokine signaling 1 Source HGNC Symbol Acc HGNC 19383
G02	SBH1220413	ENST00000330871.3	SOCS3	ENSG00000184557	suppressor of cytokine signaling 3 Source HGNC Symbol Acc HGNC 19391
G03	SBH0341614	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G04	SBH1220423	ENST00000392320.7	STAT4	ENSG00000138378	signal transducer and activator of transcription 4 Source HGNC Symbol Acc HGNC 11365
G05	SBH0335854	ENST00000345506.8	STAT5A	ENSG00000126561	signal transducer and activator of transcription 5A Source HGNC Symbol Acc HGNC 11366
G06	SBH1220424	ENST00000300134.8	STAT6	ENSG00000166888	signal transducer and activator of transcription 6 Source HGNC Symbol Acc HGNC 11368
G07	SBH0411535	ENST00000375746.1	SYK	ENSG00000165025	spleen associated tyrosine kinase Source HGNC Symbol Acc HGNC 11491
G08	SBH1220435	ENST00000177694.2	TBX21	ENSG00000073861	T-box 21 Source HGNC Symbol Acc HGNC 11599
G09	SBH1220443	ENST00000598758.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G10	SBH0092782	ENST00000355622.8	TLR4	ENSG00000136869	toll like receptor 4 Source HGNC Symbol Acc HGNC 11850
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 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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