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

Human Th17 Response

Cat. no. 249955 UPHS-073ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light 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 Probe PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA Probe PCR 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 Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFH0203536	ENST00000225842.3	CCL1	ENSG00000108702	C-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 10609
A02	UPFH1132783	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A03	UPFH1132289	ENST00000358813.5	CCL20	ENSG00000115009	C-C motif chemokine ligand 20 Source HGNC Symbol Acc HGNC 10619
A04	UPFH1132291	ENST00000219235.5	CCL22	ENSG00000102962	C-C motif chemokine ligand 22 Source HGNC Symbol Acc HGNC 10621
A05	UPFH0186519	ENST00000378569.2	CCL7	ENSG00000108688	C-C motif chemokine ligand 7 Source HGNC Symbol Acc HGNC 10634
A06	UPFH0175349	ENST00000445132.2	CCR2	ENSG00000121807	C-C motif chemokine receptor 2 Source HGNC Symbol Acc HGNC 1603
A07	UPFH0179708	ENST00000330953.5	CCR4	ENSG00000183813	C-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 1605
A08	UPFH1172903	ENST00000349984.6	CCR6	ENSG00000112486	C-C motif chemokine receptor 6 Source HGNC Symbol Acc HGNC 1607
A09	UPFH0310921	ENST00000458610.6	CD28	ENSG00000178562	CD28 molecule Source HGNC Symbol Acc HGNC 1653
A10	UPFH0464651	ENST00000367036.7	CD34	ENSG00000174059	CD34 molecule Source HGNC Symbol Acc HGNC 1662
A11	UPFH1132302	ENST00000541982.5	CD4	ENSG00000010610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
A12	UPFH0592498	ENST00000370629.6	CD40LG	ENSG00000102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
B01	UPFH0396984	ENST00000409781.1	CD8A	ENSG00000153563	CD8a molecule Source HGNC Symbol Acc HGNC 1706
B02	UPFH0202295	ENST00000303004.4	CEBPB	ENSG00000172216	CCAAT enhancer binding protein beta Source HGNC Symbol Acc HGNC 1834
B03	UPFH0521742	ENST00000528799.1	CLEC7A	ENSG00000172243	C-type lectin domain containing 7A Source HGNC Symbol Acc HGNC 14558
B04	UPFH1132793	ENST00000296871.4	CSF2	ENSG00000164400	colony stimulating factor 2 Source HGNC Symbol Acc HGNC 2434
B05	UPFH1132794	ENST00000225474.6	CSF3	ENSG00000108342	colony stimulating factor 3 Source HGNC Symbol Acc HGNC 2438
B06	UPFH1132348	ENST00000006053.7	CX3CL1	ENSG00000006210	C-X3-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 10647
B07	UPFH0494346	ENST00000395761.3	CXCL1	ENSG00000163739	C-X-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 4602
B08	UPFH0092551	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
B09	UPFH1132349	ENST00000508487.3	CXCL2	ENSG00000081041	C-X-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 4603
B10	UPFH1132798	ENST00000296027.5	CXCL5	ENSG00000163735	C-X-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10642
B11	UPFH1132350	ENST00000226317.10	CXCL6	ENSG00000124875	C-X-C motif chemokine ligand 6 Source HGNC Symbol Acc HGNC 10643
B12	UPFH1132403	ENST00000557224.6	FOXP3	ENSG00000049768	forkhead box P3 Source HGNC Symbol Acc HGNC 6106
C01	UPFH1132416	ENST00000645492.1	GATA3	ENSG00000107485	GATA binding protein 3 Source HGNC Symbol Acc HGNC 4172
C02	UPFH1132462	ENST00000264832.8	ICAM1	ENSG00000090339	intercellular adhesion molecule 1 Source HGNC Symbol Acc HGNC 5344
C03	UPFH0092255	ENST00000316386.10	ICOS	ENSG00000163600	inducible T cell costimulator Source HGNC Symbol Acc HGNC 5351
C04	UPFH1132473	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
C05	UPFH0028177	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
C06	UPFH0131869	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
C07	UPFH0180840	ENST00000600835.6	IL12RB1	ENSG00000096996	interleukin 12 receptor subunit beta 1 Source HGNC Symbol Acc HGNC 5971
C08	UPFH0010120	ENST00000541374.5	IL12RB2	ENSG00000081985	interleukin 12 receptor subunit beta 2 Source HGNC Symbol Acc HGNC 5972
C09	UPFH1132807	ENST00000617259.2	IL13	ENSG00000169194	interleukin 13 Source HGNC Symbol Acc HGNC 5973
C10	UPFH1132873	ENST00000296545.11	IL15	ENSG00000164136	interleukin 15 Source HGNC Symbol Acc HGNC 5977
		ENST00000648		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0091505	244.1	IL17A	112115	interleukin 17A Source HGNC Symbol Acc HGNC 5981
C12	UPFH1132479	ENST00000244241.4	IL17C	ENSG00000124391	interleukin 17C Source HGNC Symbol Acc HGNC 5983
D01	UPFH0536498	ENST00000468605.1	IL17D	ENSG00000172458	interleukin 17D Source HGNC Symbol Acc HGNC 5984
D02	UPFH1132480	ENST00000336123.4	IL17F	ENSG00000112116	interleukin 17F Source HGNC Symbol Acc HGNC 16404
D03	UPFH0533647	ENST00000477874.1	IL17RA	ENSG00000177663	interleukin 17 receptor A Source HGNC Symbol Acc HGNC 5985
D04	UPFH0111666	ENST00000288167.8	IL17RB	ENSG00000056736	interleukin 17 receptor B Source HGNC Symbol Acc HGNC 18015
D05	UPFH0515202	ENST00000498214.6	IL17RC	ENSG00000163702	interleukin 17 receptor C Source HGNC Symbol Acc HGNC 18358
D06	UPFH0101815	ENST00000489181.5	IL17RE	ENSG00000163701	interleukin 17 receptor E Source HGNC Symbol Acc HGNC 18439
D07	UPFH1132481	ENST00000528832.1	IL18	ENSG00000150782	interleukin 18 Source HGNC Symbol Acc HGNC 5986
D08	UPFH0163764	ENST00000263341.6	IL1B	ENSG00000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
D09	UPFH1132482	ENST00000442590.5	IL1R1	ENSG00000115594	interleukin 1 receptor type 1 Source HGNC Symbol Acc HGNC 5993
D10	UPFH0116492	ENST00000226730.4	IL2	ENSG00000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
D11	UPFH0321856	ENST00000648588.1	IL21	ENSG00000138684	interleukin 21 Source HGNC Symbol Acc HGNC 6005
D12	UPFH0614981	ENST00000328087.6	IL22	ENSG00000127318	interleukin 22 Source HGNC Symbol Acc HGNC 14900
E01	UPFH1132809	ENST00000228534.6	IL23A	ENSG00000110944	interleukin 23 subunit alpha Source HGNC Symbol Acc HGNC 15488
E02	UPFH1132810	ENST00000637002.1	IL23R	ENSG00000162594	interleukin 23 receptor Source HGNC Symbol Acc HGNC 19100
E03	UPFH0387713	ENST00000329715.2	IL25	ENSG00000166090	interleukin 25 Source HGNC Symbol Acc HGNC 13765
E04	UPFH0006752	ENST00000356897.1	IL27	ENSG00000197272	interleukin 27 Source HGNC Symbol Acc HGNC 19157
E05	UPFH0282899	ENST00000296870.2	IL3	ENSG00000164399	interleukin 3 Source HGNC Symbol Acc HGNC 6011
E06	UPFH0226437	ENST00000231449.7	IL4	ENSG00000113520	interleukin 4 Source HGNC Symbol Acc HGNC 6014
E07	UPFH1132811	ENST00000231454.6	IL5	ENSG00000113525	interleukin 5 Source HGNC Symbol Acc HGNC 6016
E08	UPFH1172910	ENST00000258743.10	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
E09	UPFH1132484	ENST00000622330.4	IL6R	ENSG00000160712	interleukin 6 receptor Source HGNC Symbol Acc HGNC 6019
E10	UPFH0314857	ENST00000514217.5	IL7R	ENSG00000168685	interleukin 7 receptor Source HGNC Symbol Acc HGNC 6024
E11	UPFH0120553	ENST00000307407.8	CXCL8	ENSG00000169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
E12	UPFH0611711	ENST00000274520.1	IL9	ENSG00000145839	interleukin 9 Source HGNC Symbol Acc HGNC 6029
F01	UPFH0051290	ENST00000380956.9	IRF4	ENSG00000137265	interferon regulatory factor 4 Source HGNC Symbol Acc HGNC 6119
F02	UPFH1132495	ENST00000560741.5	ISG20	ENSG00000172183	interferon stimulated exonuclease gene 20 Source HGNC Symbol Acc HGNC 6130
F03	UPFH1132963	ENST00000342505.5	JAK1	ENSG00000162434	Janus kinase 1 Source HGNC Symbol Acc HGNC 6190
F04	UPFH1132818	ENST00000381652.3	JAK2	ENSG00000096968	Janus kinase 2 Source HGNC Symbol Acc HGNC 6192
F05	UPFH1132827	ENST00000299855.10	MMP3	ENSG00000149968	matrix metallopeptidase 3 Source HGNC Symbol Acc HGNC 7173
F06	UPFH0367626	ENST00000372330.3	MMP9	ENSG00000100985	matrix metallopeptidase 9 Source HGNC Symbol Acc HGNC 7176
F07	UPFH0101128	ENST00000610033.5	NFATC2	ENSG00000101096	nuclear factor of activated T cells 2 Source HGNC Symbol Acc HGNC 7776
F08	UPFH1132828	ENST00000226574.9	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
F09	UPFH0374720	ENST00000335670.11	RORA	ENSG00000069667	RAR related orphan receptor A Source HGNC Symbol Acc HGNC 10258
F10	UPFH1132662	ENST00000318247.7	RORC	ENSG00000143365	RAR related orphan receptor C Source HGNC Symbol Acc HGNC 10260

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0023287	ENST00000437180.5	RUNX1	ENSG00000159216	runt related transcription factor 1 Source HGNC Symbol Acc HGNC 10471
F12	UPFH0376099	ENST00000305352.6	S1PR1	ENSG00000170989	sphingosine-1-phosphate receptor 1 Source HGNC Symbol Acc HGNC 3165
G01	UPFH1132887	ENST00000644787.1	SOCS1	ENSG00000185338	suppressor of cytokine signaling 1 Source HGNC Symbol Acc HGNC 19383
G02	UPFH1132974	ENST00000330871.3	SOCS3	ENSG00000184557	suppressor of cytokine signaling 3 Source HGNC Symbol Acc HGNC 19391
G03	UPFH0531262	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G04	UPFH1132697	ENST00000392320.7	STAT4	ENSG00000138378	signal transducer and activator of transcription 4 Source HGNC Symbol Acc HGNC 11365
G05	UPFH0458805	ENST00000591556.1	STAT5A	ENSG00000126561	signal transducer and activator of transcription 5A Source HGNC Symbol Acc HGNC 11366
G06	UPFH1132845	ENST00000553533.2	STAT6	ENSG00000166888	signal transducer and activator of transcription 6 Source HGNC Symbol Acc HGNC 11368
G07	UPFH0221786	ENST00000375751.8	SYK	ENSG00000165025	spleen associated tyrosine kinase Source HGNC Symbol Acc HGNC 11491
G08	UPFH0331267	ENST00000177694.2	TBX21	ENSG00000073861	T-box 21 Source HGNC Symbol Acc HGNC 11599
G09	UPFH0193430	ENST00000221930.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G10	UPFH1132859	ENST00000645071.1	TLR4	ENSG00000136869	toll like receptor 4 Source HGNC Symbol Acc HGNC 11850
G11	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G12	UPFH1132739	ENST00000348124.5	TRAF6	ENSG00000175104	TNF receptor associated factor 6 Source HGNC Symbol Acc HGNC 12036
H01	UPFH1132936	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	UPFH1132937	ENST00000544417.5	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	UPFH1132938	ENST00000229239.10	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	UPFH1132939	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	UPFH1132941	ENST00000392514.9	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	UPFH1126608	UPL_HGDC	HGDC	UPL_HGDC	Human Genomic DNA Contamination
H07	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H08	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H09	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H10	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H11	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H12	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA Probe PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249945
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 Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl QN ROX Reference Dye, 1.9 ml Water	208252

*Larger kit sizes available.

The QuantiNova LNA Probe 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.