

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

Human T-Cell & B-Cell Activation

Cat. no. 249955 UPHS-053ZR

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 (Rotor-Gene): QuantiNova LNA Probe 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 Probe PCR Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	ADA	AICDA	APC	BCL2	BLM	BLNK	CCL3	CCR1	CCR2	CCR3	CCR4	CCR5
B	CD1D	CD2	CD27	CD274	CD276	CD28	CD3D	CD3E	CD3G	CD4	CD40	CD40LG
C	CD47	CD5	CD7	CD80	CD81	CD86	CD8A	CD8B	CSF2	CX3CL1	CXCR3	CXCR4
D	CXCR5	DPP4	EGR1	FAS	FASLG	FOXP3	ICOSLG	IFNG	IL10	IL11	IL12A	IL12B
E	IL12RB1	IL12RB2	IL13	IL15	IL18	IL18R1	IL1B	IL2	IL2RA	IL3	IL4	IL4R
F	IL5	IL6	IL7	CXCL8	IRF4	LAG3	LCK	MAP3K7	MICB	MS4A1	NCK1	NOS2
G	PTPRC	RAG1	RIPK2	SOC1	TGFB1	TLR1	TLR2	TLR4	TLR6	TLR9	TNFSF14	VAV1
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	UPFH0511922	ENST00000536532.5	ADA	ENSG00000196839	adenosine deaminase Source HGNC Symbol Acc HGNC 186
A02	UPFH0415700	ENST00000544516.5	AICDA	ENSG00000111732	activation induced cytidine deaminase Source HGNC Symbol Acc HGNC 13203
A03	UPFH1132236	ENST00000257430.9	APC	ENSG00000134982	APC, WNT signaling pathway regulator Source HGNC Symbol Acc HGNC 583
A04	UPFH1132900	ENST00000333681.5	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A05	UPFH1132273	ENST00000355112.8	BLM	ENSG00000197299	BLM RecQ like helicase Source HGNC Symbol Acc HGNC 1058
A06	UPFH0513917	ENST00000224337.9	BLNK	ENSG00000095585	B cell linker Source HGNC Symbol Acc HGNC 14211
A07	UPFH1132784	ENST00000613922.2	CCL3	ENSG00000277632	C-C motif chemokine ligand 3 Source HGNC Symbol Acc HGNC 10627
A08	UPFH0327828	ENST00000296140.4	CCR1	ENSG00000163823	C-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 1602
A09	UPFH0175349	ENST00000445132.2	CCR2	ENSG00000121807	C-C motif chemokine receptor 2 Source HGNC Symbol Acc HGNC 1603
A10	UPFH1132788	ENST00000395940.3	CCR3	ENSG00000183625	C-C motif chemokine receptor 3 Source HGNC Symbol Acc HGNC 1604
A11	UPFH0179708	ENST00000330953.5	CCR4	ENSG00000183813	C-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 1605
A12	UPFH1132860	ENST00000292303.4	CCR5	ENSG00000160791	C-C motif chemokine receptor 5 (gene/pseudogene) Source HGNC Symbol Acc HGNC 1606
B01	UPFH0227496	ENST00000368171.3	CD1D	ENSG00000158473	CD1d molecule Source HGNC Symbol Acc HGNC 1637
B02	UPFH0412753	ENST00000369478.4	CD2	ENSG00000116824	CD2 molecule Source HGNC Symbol Acc HGNC 1639
B03	UPFH0539172	ENST00000266557.3	CD27	ENSG00000139193	CD27 molecule Source HGNC Symbol Acc HGNC 11922
B04	UPFH0099947	ENST00000492923.1	CD274	ENSG00000120217	CD274 molecule Source HGNC Symbol Acc HGNC 17635
B05	UPFH0109190	ENST00000561176.5	CD276	ENSG00000103855	CD276 molecule Source HGNC Symbol Acc HGNC 19137
B06	UPFH0310921	ENST00000458610.6	CD28	ENSG00000178562	CD28 molecule Source HGNC Symbol Acc HGNC 1653
B07	UPFH0362550	ENST00000526561.1	CD3D	ENSG00000167286	CD3d molecule Source HGNC Symbol Acc HGNC 1673
B08	UPFH0193590	ENST00000361763.8	CD3E	ENSG00000198851	CD3e molecule Source HGNC Symbol Acc HGNC 1674
B09	UPFH0331554	ENST00000392883.6	CD3G	ENSG00000160654	CD3g molecule Source HGNC Symbol Acc HGNC 1675
B10	UPFH1132302	ENST00000541982.5	CD4	ENSG00000010610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
B11	UPFH0317626	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
B12	UPFH0592498	ENST00000370629.6	CD40LG	ENSG00000102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
C01	UPFH0572719	ENST00000517766.5	CD47	ENSG00000196776	CD47 molecule Source HGNC Symbol Acc HGNC 1682
C02	UPFH0144986	ENST00000347785.8	CD5	ENSG00000110448	CD5 molecule Source HGNC Symbol Acc HGNC 1685
C03	UPFH0381767	ENST00000584284.5	CD7	ENSG00000173762	CD7 molecule Source HGNC Symbol Acc HGNC 1695
C04	UPFH1132790	ENST00000264246.8	CD80	ENSG00000121594	CD80 molecule Source HGNC Symbol Acc HGNC 1700
C05	UPFH0258771	ENST00000468153.1	CD81	ENSG00000110651	CD81 molecule Source HGNC Symbol Acc HGNC 1701
C06	UPFH0045195	ENST00000393627.6	CD86	ENSG00000114013	CD86 molecule Source HGNC Symbol Acc HGNC 1705
C07	UPFH0396984	ENST00000409781.1	CD8A	ENSG00000153563	CD8a molecule Source HGNC Symbol Acc HGNC 1706
C08	UPFH0060065	ENST00000393761.6	CD8B	ENSG00000172116	CD8b molecule Source HGNC Symbol Acc HGNC 1707
C09	UPFH1132793	ENST00000296871.4	CSF2	ENSG00000164400	colony stimulating factor 2 Source HGNC Symbol Acc HGNC 2434
C10	UPFH1132348	ENST00000006053.7	CX3CL1	ENSG00000006210	C-X3-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 10647
		ENST00000373		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1132799	693.4	CXCR3	186810	C-X-C motif chemokine receptor 3 Source HGNC Symbol Acc HGNC 4540
C12	UPFH0570418	ENST00000241393.3	CXCR4	ENSG00000121966	C-X-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 2561
D01	UPFH0300621	ENST00000292174.4	CXCR5	ENSG00000160683	C-X-C motif chemokine receptor 5 Source HGNC Symbol Acc HGNC 1060
D02	UPFH0614636	ENST00000434918.6	DPP4	ENSG00000197635	dipeptidyl peptidase 4 Source HGNC Symbol Acc HGNC 3009
D03	UPFH0558832	ENST00000239938.5	EGR1	ENSG00000120738	early growth response 1 Source HGNC Symbol Acc HGNC 3238
D04	UPFH1132395	ENST00000357339.6	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
D05	UPFH1132396	ENST00000367721.3	FASLG	ENSG00000117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
D06	UPFH1132403	ENST00000557224.6	FOXP3	ENSG00000049768	forkhead box P3 Source HGNC Symbol Acc HGNC 6106
D07	UPFH0280473	ENST00000400377.3	ICOSLG	ENSG00000160223	inducible T cell costimulator ligand Source HGNC Symbol Acc HGNC 17087
D08	UPFH1132473	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
D09	UPFH0028177	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D10	UPFH1132477	ENST00000585513.1	IL11	ENSG00000095752	interleukin 11 Source HGNC Symbol Acc HGNC 5966
D11	UPFH1132478	ENST00000466512.1	IL12A	ENSG00000168811	interleukin 12A Source HGNC Symbol Acc HGNC 5969
D12	UPFH0131869	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
E01	UPFH0180840	ENST00000600835.6	IL12RB1	ENSG00000096996	interleukin 12 receptor subunit beta 1 Source HGNC Symbol Acc HGNC 5971
E02	UPFH0010120	ENST00000541374.5	IL12RB2	ENSG00000081985	interleukin 12 receptor subunit beta 2 Source HGNC Symbol Acc HGNC 5972
E03	UPFH1132807	ENST00000617259.2	IL13	ENSG00000169194	interleukin 13 Source HGNC Symbol Acc HGNC 5973
E04	UPFH1132873	ENST00000296545.11	IL15	ENSG00000164136	interleukin 15 Source HGNC Symbol Acc HGNC 5977
E05	UPFH1132481	ENST00000528832.1	IL18	ENSG00000150782	interleukin 18 Source HGNC Symbol Acc HGNC 5986
E06	UPFH0567076	ENST00000233957.5	IL18R1	ENSG00000115604	interleukin 18 receptor 1 Source HGNC Symbol Acc HGNC 5988
E07	UPFH0163764	ENST00000263341.6	IL1B	ENSG00000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
E08	UPFH0116492	ENST00000226730.4	IL2	ENSG00000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
E09	UPFH0323649	ENST00000447847.1	IL2RA	ENSG00000134460	interleukin 2 receptor subunit alpha Source HGNC Symbol Acc HGNC 6008
E10	UPFH0282899	ENST00000296870.2	IL3	ENSG00000164399	interleukin 3 Source HGNC Symbol Acc HGNC 6011
E11	UPFH0226437	ENST00000231449.7	IL4	ENSG00000113520	interleukin 4 Source HGNC Symbol Acc HGNC 6014
E12	UPFH0363455	ENST00000563886.1	IL4R	ENSG00000077238	interleukin 4 receptor Source HGNC Symbol Acc HGNC 6015
F01	UPFH1132811	ENST00000231454.6	IL5	ENSG00000113525	interleukin 5 Source HGNC Symbol Acc HGNC 6016
F02	UPFH1172910	ENST00000258743.10	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
F03	UPFH1132812	ENST00000263851.9	IL7	ENSG00000104432	interleukin 7 Source HGNC Symbol Acc HGNC 6023
F04	UPFH0120553	ENST00000307407.8	CXCL8	ENSG00000169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
F05	UPFH0051290	ENST00000380956.9	IRF4	ENSG00000137265	interferon regulatory factor 4 Source HGNC Symbol Acc HGNC 6119
F06	UPFH0614886	ENST00000203629.3	LAG3	ENSG00000089692	lymphocyte activating 3 Source HGNC Symbol Acc HGNC 6476
F07	UPFH0186084	ENST00000619559.4	LCK	ENSG00000182866	LCK proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 6524
F08	UPFH0381277	ENST00000369327.7	MAP3K7	ENSG00000135341	mitogen-activated protein kinase kinase kinase 7 Source HGNC Symbol Acc HGNC 6859
F09	UPFH0114261	ENST00000252229.7	MICB	ENSG00000204516	MHC class I polypeptide-related sequence B Source HGNC Symbol Acc HGNC 7091
F10	UPFH0464870	ENST00000532073.5	MS4A1	ENSG00000156738	membrane spanning 4-domains A1 Source HGNC Symbol Acc HGNC 7315

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0531352	ENST00000467911.1	NCK1	ENSG00000158092	NCK adaptor protein 1 Source HGNC Symbol Acc HGNC 7664
F12	UPFH0572128	ENST00000313735.10	NOS2	ENSG00000007171	nitric oxide synthase 2 Source HGNC Symbol Acc HGNC 7873
G01	UPFH0448301	ENST00000367367.8	PTPRC	ENSG00000081237	protein tyrosine phosphatase, receptor type C Source HGNC Symbol Acc HGNC 9666
G02	UPFH1132837	ENST00000299440.5	RAG1	ENSG00000166349	recombination activating 1 Source HGNC Symbol Acc HGNC 9831
G03	UPFH1132658	ENST00000220751.5	RIPK2	ENSG00000104312	receptor interacting serine/threonine kinase 2 Source HGNC Symbol Acc HGNC 10020
G04	UPFH1132887	ENST00000644787.1	SOCS1	ENSG00000185338	suppressor of cytokine signaling 1 Source HGNC Symbol Acc HGNC 19383
G05	UPFH0193430	ENST00000221930.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G06	UPFH0034752	ENST00000308979.7	TLR1	ENSG00000174125	toll like receptor 1 Source HGNC Symbol Acc HGNC 11847
G07	UPFH0035742	ENST00000642700.1	TLR2	ENSG00000137462	toll like receptor 2 Source HGNC Symbol Acc HGNC 11848
G08	UPFH1132859	ENST00000645071.1	TLR4	ENSG00000136869	toll like receptor 4 Source HGNC Symbol Acc HGNC 11850
G09	UPFH1172914	ENST00000508254.5	TLR6	ENSG00000174130	toll like receptor 6 Source HGNC Symbol Acc HGNC 16711
G10	UPFH1172915	ENST00000360658.2	TLR9	ENSG00000239732	toll like receptor 9 Source HGNC Symbol Acc HGNC 15633
G11	UPFH1132854	ENST00000599359.1	TNFSF14	ENSG00000125735	TNF superfamily member 14 Source HGNC Symbol Acc HGNC 11930
G12	UPFH0537533	ENST00000596764.5	VAV1	ENSG00000141968	vav guanine nucleotide exchange factor 1 Source HGNC Symbol Acc HGNC 12657
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 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 Probe RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe 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	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l 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.

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