

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

Human Cell Surface Markers

Cat. no. 249955 UPHS-055ZR

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	ALCAM	C5AR1	CD140	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	CD8B	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 Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFH0482520	ENST00000486979.6	ALCAM	ENSG00000170017	activated leukocyte cell adhesion molecule Source HGNC Symbol Acc HGNC 400
A02	UPFH0279350	ENST00000355085.4	C5AR1	ENSG00000197405	complement C5a receptor 1 Source HGNC Symbol Acc HGNC 1338
A03	UPFH0203063	ENST00000584442.2	CD160	ENSG00000117281	CD160 molecule Source HGNC Symbol Acc HGNC 17013
A04	UPFH0603631	ENST00000541972.5	CD163	ENSG00000177575	CD163 molecule Source HGNC Symbol Acc HGNC 1631
A05	UPFH0578469	ENST00000567541.6	CD19	ENSG00000177455	CD19 molecule Source HGNC Symbol Acc HGNC 1633
A06	UPFH0253297	ENST00000289429.6	CD1A	ENSG00000158477	CD1a molecule Source HGNC Symbol Acc HGNC 1634
A07	UPFH0444693	ENST00000368170.8	CD1C	ENSG00000158481	CD1c molecule Source HGNC Symbol Acc HGNC 1636
A08	UPFH0227496	ENST00000368171.3	CD1D	ENSG00000158473	CD1d molecule Source HGNC Symbol Acc HGNC 1637
A09	UPFH0412753	ENST00000369478.4	CD2	ENSG00000116824	CD2 molecule Source HGNC Symbol Acc HGNC 1639
A10	UPFH0023634	ENST00000315591.12	CD209	ENSG00000090659	CD209 molecule Source HGNC Symbol Acc HGNC 1641
A11	UPFH1123812	ENST00000600905.5	CD22	ENSG00000012124	CD22 molecule Source HGNC Symbol Acc HGNC 1643
A12	UPFH0043318	ENST00000615659.1	CD24	ENSG000000272398	CD24 molecule Source HGNC Symbol Acc HGNC 1645
B01	UPFH0125994	ENST00000322302.7	CD244	ENSG000000122223	CD244 molecule Source HGNC Symbol Acc HGNC 18171
B02	UPFH0419328	ENST00000476733.5	CD247	ENSG000000198821	CD247 molecule Source HGNC Symbol Acc HGNC 1677
B03	UPFH0310921	ENST00000458610.6	CD28	ENSG000000178562	CD28 molecule Source HGNC Symbol Acc HGNC 1653
B04	UPFH0118764	ENST00000598095.5	CD37	ENSG000000104894	CD37 molecule Source HGNC Symbol Acc HGNC 1666
B05	UPFH0266004	ENST00000506191.1	CD38	ENSG00000004468	CD38 molecule Source HGNC Symbol Acc HGNC 1667
B06	UPFH0362550	ENST00000526561.1	CD3D	ENSG000000167286	CD3d molecule Source HGNC Symbol Acc HGNC 1673
B07	UPFH0331554	ENST00000392883.6	CD3G	ENSG000000160654	CD3g molecule Source HGNC Symbol Acc HGNC 1675
B08	UPFH1132302	ENST00000541982.5	CD4	ENSG000000010610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
B09	UPFH0317626	ENST00000372285.7	CD40	ENSG000000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
B10	UPFH0592498	ENST00000370629.6	CD40LG	ENSG000000102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
B11	UPFH0144986	ENST00000347785.8	CD5	ENSG000000110448	CD5 molecule Source HGNC Symbol Acc HGNC 1685
B12	UPFH0325547	ENST00000542157.5	CD6	ENSG000000013725	CD6 molecule Source HGNC Symbol Acc HGNC 1691
C01	UPFH0286388	ENST00000552754.5	CD63	ENSG000000135404	CD63 molecule Source HGNC Symbol Acc HGNC 1692
C02	UPFH0464998	ENST00000228434.7	CD69	ENSG000000110848	CD69 molecule Source HGNC Symbol Acc HGNC 1694
C03	UPFH0381767	ENST00000584284.5	CD7	ENSG000000173762	CD7 molecule Source HGNC Symbol Acc HGNC 1695
C04	UPFH1132789	ENST00000245903.4	CD70	ENSG000000125726	CD70 molecule Source NCBI gene Acc 970
C05	UPFH0441433	ENST00000378431.5	CD72	ENSG000000137101	CD72 molecule Source HGNC Symbol Acc HGNC 1696
C06	UPFH0164282	ENST00000523208.5	CD74	ENSG000000019582	CD74 molecule Source HGNC Symbol Acc HGNC 1697
C07	UPFH0398187	ENST00000597454.1	CD79A	ENSG000000105369	CD79a molecule Source HGNC Symbol Acc HGNC 1698
C08	UPFH0250772	ENST00000559358.1	CD79B	ENSG000000007312	CD79b molecule Source HGNC Symbol Acc HGNC 1699
C09	UPFH1132790	ENST00000264246.8	CD80	ENSG000000121594	CD80 molecule Source HGNC Symbol Acc HGNC 1700
C10	UPFH0041131	ENST00000612003.4	CD83	ENSG000000112149	CD83 molecule Source HGNC Symbol Acc HGNC 1703
		ENST00000393		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0045195	627.6	CD86	114013	CD86 molecule Source HGNC Symbol Acc HGNC 1705
C12	UPFH0396984	ENST00000409781.1	CD8A	ENSG00000153563	CD8a molecule Source HGNC Symbol Acc HGNC 1706
D01	UPFH0060065	ENST00000393761.6	CD8B	ENSG00000172116	CD8b molecule Source HGNC Symbol Acc HGNC 1707
D02	UPFH0360105	ENST00000488054.1	CD96	ENSG00000153283	CD96 molecule Source HGNC Symbol Acc HGNC 16892
D03	UPFH0304456	ENST00000418201.5	CHST10	ENSG00000115526	carbohydrate sulfotransferase 10 Source HGNC Symbol Acc HGNC 19650
D04	UPFH0361104	ENST00000225964.9	COL1A1	ENSG00000108821	collagen type I alpha 1 chain Source HGNC Symbol Acc HGNC 2197
D05	UPFH1132970	ENST00000620463.1	COL1A2	ENSG00000164692	collagen type I alpha 2 chain Source HGNC Symbol Acc HGNC 2198
D06	UPFH0452392	ENST00000367058.7	CR2	ENSG00000117322	complement C3d receptor 2 Source HGNC Symbol Acc HGNC 2336
D07	UPFH0123457	ENST00000504875.5	CSF1R	ENSG00000182578	colony stimulating factor 1 receptor Source HGNC Symbol Acc HGNC 2433
D08	UPFH0603710	ENST00000427473.3	CTLA4	ENSG00000163599	cytotoxic T-lymphocyte associated protein 4 Source HGNC Symbol Acc HGNC 2505
D09	UPFH0614636	ENST00000434918.6	DPP4	ENSG00000197635	dipeptidyl peptidase 4 Source HGNC Symbol Acc HGNC 3009
D10	UPFH0535657	ENST00000344849.4	ENG	ENSG00000106991	endoglin Source HGNC Symbol Acc HGNC 3349
D11	UPFH0451571	ENST00000490733.1	EPCAM	ENSG00000119888	epithelial cell adhesion molecule Source HGNC Symbol Acc HGNC 11529
D12	UPFH1132395	ENST00000357339.6	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
E01	UPFH0001018	ENST00000368115.5	FCER1A	ENSG00000179639	Fc fragment of IgE receptor Ia Source HGNC Symbol Acc HGNC 3609
E02	UPFH0089548	ENST00000346664.9	FCER2	ENSG00000104921	Fc fragment of IgE receptor II Source HGNC Symbol Acc HGNC 3612
E03	UPFH0313882	ENST00000444948.5	FCGR1A	ENSG00000150337	Fc fragment of IgG receptor Ia Source HGNC Symbol Acc HGNC 3613
E04	UPFH1132449	ENST00000376809.10	HLA-A	ENSG00000206503	major histocompatibility complex, class I, A Source HGNC Symbol Acc HGNC 4931
E05	UPFH0292435	ENST00000395388.7	HLA-DRA	ENSG00000204287	major histocompatibility complex, class II, DR alpha Source HGNC Symbol Acc HGNC 4947
E06	UPFH0413963	ENST00000449662.6	ICAM2	ENSG00000108622	intercellular adhesion molecule 2 Source HGNC Symbol Acc HGNC 5345
E07	UPFH0180840	ENST00000600835.6	IL12RB1	ENSG00000096996	interleukin 12 receptor subunit beta 1 Source HGNC Symbol Acc HGNC 5971
E08	UPFH0176161	ENST00000441002.1	IL1R2	ENSG00000115590	interleukin 1 receptor type 2 Source HGNC Symbol Acc HGNC 5994
E09	UPFH0323649	ENST00000447847.1	IL2RA	ENSG00000134460	interleukin 2 receptor subunit alpha Source HGNC Symbol Acc HGNC 6008
E10	UPFH0229386	ENST00000282588.6	ITGA1	ENSG00000213949	integrin subunit alpha 1 Source HGNC Symbol Acc HGNC 6134
E11	UPFH1132496	ENST00000296585.10	ITGA2	ENSG00000164171	integrin subunit alpha 2 Source HGNC Symbol Acc HGNC 6137
E12	UPFH1132814	ENST00000320031.13	ITGA3	ENSG00000005884	integrin subunit alpha 3 Source HGNC Symbol Acc HGNC 6139
F01	UPFH0072788	ENST00000229402.3	KLRB1	ENSG00000111796	killer cell lectin like receptor B1 Source HGNC Symbol Acc HGNC 6373
F02	UPFH0601008	ENST00000347831.9	KLRC1	ENSG00000134545	killer cell lectin like receptor C1 Source HGNC Symbol Acc HGNC 6374
F03	UPFH0257432	ENST00000350274.9	KLRD1	ENSG00000134539	killer cell lectin like receptor D1 Source HGNC Symbol Acc HGNC 6378
F04	UPFH0381528	ENST00000388835.4	KRT18	ENSG00000111057	keratin 18 Source HGNC Symbol Acc HGNC 6430
F05	UPFH0589368	ENST00000548409.5	KRT5	ENSG00000186081	keratin 5 Source HGNC Symbol Acc HGNC 6442
F06	UPFH0434758	ENST00000547176.3	KRT8	ENSG00000170421	keratin 8 Source HGNC Symbol Acc HGNC 6446
F07	UPFH0464870	ENST00000532073.5	MS4A1	ENSG00000156738	membrane spanning 4-domains A1 Source HGNC Symbol Acc HGNC 7315
F08	UPFH0379194	ENST00000360416.7	MYH10	ENSG00000133026	myosin heavy chain 10 Source HGNC Symbol Acc HGNC 7568
F09	UPFH0604008	ENST00000463027.1	MYH9	ENSG00000100345	myosin heavy chain 9 Source HGNC Symbol Acc HGNC 7579
F10	UPFH0418258	ENST00000343344.8	MYOCD	ENSG00000141052	myocardin Source HGNC Symbol Acc HGNC 16067

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0013835	ENST00000531044.5	NCAM1	ENSG00000149294	neural cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 7656
F12	UPFH1132897	ENST00000297494.8	NOS3	ENSG00000164867	nitric oxide synthase 3 Source HGNC Symbol Acc HGNC 7876
G01	UPFH0577262	ENST00000416334.5	NT5E	ENSG00000135318	5 -nucleotidase ecto Source HGNC Symbol Acc HGNC 8021
G02	UPFH1132613	ENST00000563924.6	PECAM1	ENSG00000261371	platelet and endothelial cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 8823
G03	UPFH0306767	ENST00000629642.1	RETN	ENSG00000104918	resistin Source HGNC Symbol Acc HGNC 20389
G04	UPFH0240332	ENST00000368732.5	S100A8	ENSG00000143546	S100 calcium binding protein A8 Source HGNC Symbol Acc HGNC 10498
G05	UPFH1132839	ENST00000367786.6	SELP	ENSG00000174175	selectin P Source HGNC Symbol Acc HGNC 10721
G06	UPFH0136754	ENST00000438590.5	ST6GAL1	ENSG00000073849	ST6 beta-galactoside alpha-2,6-sialyltransferase 1 Source HGNC Symbol Acc HGNC 10860
G07	UPFH1132711	ENST00000380036.9	TEK	ENSG00000120156	TEK receptor tyrosine kinase Source HGNC Symbol Acc HGNC 11724
G08	UPFH0433269	ENST00000497869.5	TNFRSF4	ENSG00000186827	TNF receptor superfamily member 4 Source HGNC Symbol Acc HGNC 11918
G09	UPFH0288248	ENST00000479933.2	TNFRSF8	ENSG00000120949	TNF receptor superfamily member 8 Source HGNC Symbol Acc HGNC 11923
G10	UPFH1125866	ENST00000561736.1	TPSAB1	ENSG00000172236	tryptase alpha/beta 1 Source HGNC Symbol Acc HGNC 12019
G11	UPFH1132856	ENST00000294728.7	VCAM1	ENSG00000162692	vascular cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 12663
G12	UPFH0533670	ENST00000261405.9	VWF	ENSG00000110799	von Willebrand factor Source HGNC Symbol Acc HGNC 12726
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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