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

Human Hematopoiesis

Cat. no. 249955 UPHS-054ZR

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	ANGPT1	APC	ASH2L	BLNK	CBFB	CCR1	CD14	CD164	CD1D	CD2	CD27	CD34
B	CD3D	CD3G	CD4	CD44	CD80	CD86	CD8A	CEBPE	CEBPG	CHST15	CSF1	CSF2
C	DLL1	ETS1	ETV6	FLT3LG	FUT10	FZD1	GATA1	GATA2	HDAC4	HDAC5	HDAC7	HDAC9
D	IL10	IL11	IL12B	IL1A	IL2	IL20	IL25	IL31RA	IL6ST	INHA	INHBA	JAG1
E	JAG2	KDR	KIT	KITLG	LEF1	LMO2	LRMP	MAL	MAP4K1	MMP9	NCOA6	NOS2
F	NOTCH1	NOTCH2	NOTCH4	PAX5	PECAM1	PF4	PTPRC	RBPJ	RUNX1	SFXN1	SOCS5	SPP1
G	STAT1	STAT3	STIM2	TAL1	TEK	TLR3	TLR4	TNFSF11	TRIM10	VAV1	VEGFA	WNT3A
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	UPFH1132231	ENST00000517746.6	ANGPT1	ENSG00000154188	angiopoietin 1 Source HGNC Symbol Acc HGNC 484
A02	UPFH1132236	ENST00000257430.9	APC	ENSG00000134982	APC, WNT signaling pathway regulator Source HGNC Symbol Acc HGNC 583
A03	UPFH0141514	ENST00000517719.5	ASH2L	ENSG00000129691	ASH2 like, histone lysine methyltransferase complex subunit Source HGNC Symbol Acc HGNC 744
A04	UPFH0513917	ENST00000224337.9	BLNK	ENSG00000095585	B cell linker Source HGNC Symbol Acc HGNC 14211
A05	UPFH0071292	ENST00000651988.1	CBFB	ENSG00000067955	core-binding factor subunit beta Source HGNC Symbol Acc HGNC 1539
A06	UPFH0327828	ENST00000296140.4	CCR1	ENSG00000163823	C-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 1602
A07	UPFH0199310	ENST00000302014.11	CD14	ENSG00000170458	CD14 molecule Source HGNC Symbol Acc HGNC 1628
A08	UPFH0048819	ENST00000504373.2	CD164	ENSG00000135535	CD164 molecule Source HGNC Symbol Acc HGNC 1632
A09	UPFH0227496	ENST00000368171.3	CD1D	ENSG00000158473	CD1d molecule Source HGNC Symbol Acc HGNC 1637
A10	UPFH0412753	ENST00000369478.4	CD2	ENSG00000116824	CD2 molecule Source HGNC Symbol Acc HGNC 1639
A11	UPFH0539172	ENST00000266557.3	CD27	ENSG00000139193	CD27 molecule Source HGNC Symbol Acc HGNC 11922
A12	UPFH0464651	ENST00000367036.7	CD34	ENSG00000174059	CD34 molecule Source HGNC Symbol Acc HGNC 1662
B01	UPFH0362550	ENST00000526561.1	CD3D	ENSG00000167286	CD3d molecule Source HGNC Symbol Acc HGNC 1673
B02	UPFH0331554	ENST00000392883.6	CD3G	ENSG00000160654	CD3g molecule Source HGNC Symbol Acc HGNC 1675
B03	UPFH1132302	ENST00000541982.5	CD4	ENSG00000010610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
B04	UPFH0253499	ENST00000428726.7	CD44	ENSG00000026508	CD44 molecule (Indian blood group) Source HGNC Symbol Acc HGNC 1681
B05	UPFH1132790	ENST00000264246.8	CD80	ENSG00000121594	CD80 molecule Source HGNC Symbol Acc HGNC 1700
B06	UPFH0045195	ENST00000393627.6	CD86	ENSG00000114013	CD86 molecule Source HGNC Symbol Acc HGNC 1705
B07	UPFH0396984	ENST00000409781.1	CD8A	ENSG00000153563	CD8a molecule Source HGNC Symbol Acc HGNC 1706
B08	UPFH0581777	ENST00000206513.5	CEBPE	ENSG00000092067	CCAAT enhancer binding protein epsilon Source HGNC Symbol Acc HGNC 1836
B09	UPFH0247239	ENST00000652630.1	CEBPG	ENSG00000153879	CCAAT enhancer binding protein gamma Source HGNC Symbol Acc HGNC 1837
B10	UPFH0135094	ENST00000346248.7	CHST15	ENSG00000182022	carbohydrate sulfotransferase 15 Source HGNC Symbol Acc HGNC 18137
B11	UPFH1132338	ENST00000329608.11	CSF1	ENSG00000184371	colony stimulating factor 1 Source HGNC Symbol Acc HGNC 2432
B12	UPFH1132793	ENST00000296871.4	CSF2	ENSG00000164400	colony stimulating factor 2 Source HGNC Symbol Acc HGNC 2434
C01	UPFH0541475	ENST00000630500.1	DLL1	ENSG00000198719	delta like canonical Notch ligand 1 Source HGNC Symbol Acc HGNC 2908
C02	UPFH0570530	ENST00000392668.8	ETS1	ENSG00000134954	ETS proto-oncogene 1, transcription factor Source HGNC Symbol Acc HGNC 3488
C03	UPFH0139796	ENST00000541426.1	ETV6	ENSG00000139083	ETS variant 6 Source HGNC Symbol Acc HGNC 3495
C04	UPFH0489783	ENST00000600084.5	FLT3LG	ENSG00000090554	fms related tyrosine kinase 3 ligand Source HGNC Symbol Acc HGNC 3766
C05	UPFH0007911	ENST00000518672.5	FUT10	ENSG00000172728	fucosyltransferase 10 Source HGNC Symbol Acc HGNC 19234
C06	UPFH0039775	ENST00000287934.3	FZD1	ENSG00000157240	frizzled class receptor 1 Source HGNC Symbol Acc HGNC 4038
C07	UPFH0379883	ENST00000651144.1	GATA1	ENSG00000102145	GATA binding protein 1 Source HGNC Symbol Acc HGNC 4170
C08	UPFH0034415	ENST00000430265.6	GATA2	ENSG00000179348	GATA binding protein 2 Source HGNC Symbol Acc HGNC 4171
C09	UPFH0101499	ENST00000345617.7	HDAC4	ENSG00000068024	histone deacetylase 4 Source HGNC Symbol Acc HGNC 14063
C10	UPFH1132439	ENST00000225983.10	HDAC5	ENSG00000108840	histone deacetylase 5 Source HGNC Symbol Acc HGNC 14068
		ENST00000380		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1132440	610.8	HDAC7	061273	histone deacetylase 7 Source HGNC Symbol Acc HGNC 14067
C12	UPFH0538990	ENST00000428307.6	HDAC9	ENSG00000048052	histone deacetylase 9 Source HGNC Symbol Acc HGNC 14065
D01	UPFH0028177	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D02	UPFH1132477	ENST00000585513.1	IL11	ENSG00000095752	interleukin 11 Source HGNC Symbol Acc HGNC 5966
D03	UPFH0131869	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
D04	UPFH0436255	ENST00000263339.3	IL1A	ENSG00000115008	interleukin 1 alpha Source HGNC Symbol Acc HGNC 5991
D05	UPFH0116492	ENST00000226730.4	IL2	ENSG00000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
D06	UPFH0297773	ENST00000391930.3	IL20	ENSG00000162891	interleukin 20 Source HGNC Symbol Acc HGNC 6002
D07	UPFH0387713	ENST00000329715.2	IL25	ENSG00000166090	interleukin 25 Source HGNC Symbol Acc HGNC 13765
D08	UPFH0379580	ENST00000396834.6	IL31RA	ENSG00000164509	interleukin 31 receptor A Source HGNC Symbol Acc HGNC 18969
D09	UPFH0582962	ENST00000523039.5	IL6ST	ENSG00000134352	interleukin 6 signal transducer Source HGNC Symbol Acc HGNC 6021
D10	UPFH1132485	ENST00000243786.3	INHA	ENSG00000123999	inhibin subunit alpha Source HGNC Symbol Acc HGNC 6065
D11	UPFH1132486	ENST00000242208.5	INHBA	ENSG00000122641	inhibin subunit beta A Source HGNC Symbol Acc HGNC 6066
D12	UPFH0500277	ENST00000254958.10	JAG1	ENSG00000101384	jagged 1 Source HGNC Symbol Acc HGNC 6188
E01	UPFH0057830	ENST00000553051.1	JAG2	ENSG00000184916	jagged 2 Source HGNC Symbol Acc HGNC 6189
E02	UPFH0596732	ENST00000263923.5	KDR	ENSG00000128052	kinase insert domain receptor Source HGNC Symbol Acc HGNC 6307
E03	UPFH0545239	ENST00000288135.5	KIT	ENSG00000157404	KIT proto-oncogene receptor tyrosine kinase Source HGNC Symbol Acc HGNC 6342
E04	UPFH0242107	ENST00000644744.1	KITLG	ENSG00000049130	KIT ligand Source HGNC Symbol Acc HGNC 6343
E05	UPFH1132518	ENST00000438313.6	LEF1	ENSG00000138795	lymphoid enhancer binding factor 1 Source HGNC Symbol Acc HGNC 6551
E06	UPFH0607748	ENST00000257818.3	LMO2	ENSG00000135363	LIM domain only 2 Source HGNC Symbol Acc HGNC 6642
E07	UPFH0570592	ENST00000554272.5	LRMP	ENSG00000118308	lymphoid restricted membrane protein Source HGNC Symbol Acc HGNC 6690
E08	UPFH1132529	ENST00000354078.7	MAL	ENSG00000172005	mal, T cell differentiation protein Source HGNC Symbol Acc HGNC 6817
E09	UPFH0295746	ENST00000591517.5	MAP4K1	ENSG00000104814	mitogen-activated protein kinase kinase kinase kinase 1 Source HGNC Symbol Acc HGNC 6863
E10	UPFH0367626	ENST00000372330.3	MMP9	ENSG00000100985	matrix metallopeptidase 9 Source HGNC Symbol Acc HGNC 7176
E11	UPFH1132567	ENST00000359003.7	NCOA6	ENSG00000198646	nuclear receptor coactivator 6 Source HGNC Symbol Acc HGNC 15936
E12	UPFH0572128	ENST00000313735.10	NOS2	ENSG00000007171	nitric oxide synthase 2 Source HGNC Symbol Acc HGNC 7873
F01	UPFH0543837	ENST00000277541.7	NOTCH1	ENSG00000148400	notch 1 Source HGNC Symbol Acc HGNC 7881
F02	UPFH0591047	ENST00000640021.1	NOTCH2	ENSG00000134250	notch 2 Source HGNC Symbol Acc HGNC 7882
F03	UPFH1132594	ENST00000375023.3	NOTCH4	ENSG00000204301	notch 4 Source HGNC Symbol Acc HGNC 7884
F04	UPFH0136572	ENST00000522003.5	PAX5	ENSG00000196092	paired box 5 Source HGNC Symbol Acc HGNC 8619
F05	UPFH1132613	ENST00000563924.6	PECAM1	ENSG00000261371	platelet and endothelial cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 8823
F06	UPFH0614943	ENST00000296029.3	PF4	ENSG00000163737	platelet factor 4 Source HGNC Symbol Acc HGNC 8861
F07	UPFH0448301	ENST00000367367.8	PTPRC	ENSG00000081237	protein tyrosine phosphatase, receptor type C Source HGNC Symbol Acc HGNC 9666
F08	UPFH0270480	ENST00000504938.1	RBPJ	ENSG00000168214	recombination signal binding protein for immunoglobulin kappa J region Source HGNC Symbol Acc HGNC 5724
F09	UPFH0023287	ENST00000437180.5	RUNX1	ENSG00000159216	runt related transcription factor 1 Source HGNC Symbol Acc HGNC 10471
F10	UPFH0470679	ENST00000502865.5	SFXN1	ENSG00000164466	sideroflexin 1 Source HGNC Symbol Acc HGNC 16085

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0133368	ENST00000306503.5	SOCS5	ENSG00000171150	suppressor of cytokine signaling 5 Source HGNC Symbol Acc HGNC 16852
F12	UPFH0044238	ENST00000237623.11	SPP1	ENSG00000118785	secreted phosphoprotein 1 Source HGNC Symbol Acc HGNC 11255
G01	UPFH1132696	ENST00000392323.6	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G02	UPFH0531262	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G03	UPFH0468511	ENST00000639195.1	STIM2	ENSG00000109689	stromal interaction molecule 2 Source HGNC Symbol Acc HGNC 19205
G04	UPFH0064880	ENST00000371884.6	TAL1	ENSG00000162367	TAL bHLH transcription factor 1, erythroid differentiation factor Source HGNC Symbol Acc HGNC 11556
G05	UPFH1132711	ENST00000380036.9	TEK	ENSG00000120156	TEK receptor tyrosine kinase Source HGNC Symbol Acc HGNC 11724
G06	UPFH0561110	ENST00000296795.7	TLR3	ENSG00000164342	toll like receptor 3 Source HGNC Symbol Acc HGNC 11849
G07	UPFH1132859	ENST00000645071.1	TLR4	ENSG00000136869	toll like receptor 4 Source HGNC Symbol Acc HGNC 11850
G08	UPFH1132852	ENST00000544862.5	TNFSF11	ENSG00000120659	TNF superfamily member 11 Source HGNC Symbol Acc HGNC 11926
G09	UPFH0064959	ENST00000376704.3	TRIM10	ENSG00000204613	tripartite motif containing 10 Source HGNC Symbol Acc HGNC 10072
G10	UPFH0537533	ENST00000596764.5	VAV1	ENSG00000141968	vav guanine nucleotide exchange factor 1 Source HGNC Symbol Acc HGNC 12657
G11	UPFH0281656	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
G12	UPFH0486867	ENST00000284523.2	WNT3A	ENSG00000154342	Wnt family member 3A Source HGNC Symbol Acc HGNC 15983
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.