

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

Human Type I Interferon Response

Cat. no. 249955 UPHS-016ZR

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	ADAR	BAG3	BST2	CASP1	CAV1	CCL2	CCL5	CD70	CD80	CD86	CDKN1B	CIITA
B	CRP	CXCL10	DDX58	EIF2AK2	GBP1	HLA-A	HLA-B	HLA-E	HLA-G	IFI16	IFI27	IFI30
C	IFI6	IFIH1	IFIT1	IFIT2	IFIT3	IFITM1	IFITM2	IFITM3	IFNA1	IFNA2	IFNA4	IFNAR1
D	IFNAR2	IFNB1	IFNE	IFNW1	IL10	IL15	IL6	IRF1	IRF2	IRF3	IRF5	IRF7
E	IRF9	ISG15	ISG20	JAK1	JAK2	MAL	MET	MNDA	MX1	MX2	MYD88	NMI
F	NOS2	OAS1	OAS2	PML	PRKCZ	PSME2	SH2D1A	SHB	SOCS1	STAT1	STAT2	STAT3
G	TAP1	TICAM1	TIMP1	TLR3	TLR7	TLR8	TLR9	TMEM173	TNFSF10	TRAF3	TYK2	VEGFA
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	UPFH1132219	ENST00000647597.1	ADAR	ENSG00000160710	adenosine deaminase, RNA specific Source HGNC Symbol Acc HGNC 225
A02	UPFH0352059	ENST00000369085.7	BAG3	ENSG00000151929	BCL2 associated athanogene 3 Source HGNC Symbol Acc HGNC 939
A03	UPFH1132280	ENST00000252593.7	BST2	ENSG00000130303	bone marrow stromal cell antigen 2 Source HGNC Symbol Acc HGNC 1119
A04	UPFH0285144	ENST00000436863.7	CASP1	ENSG00000137752	caspase 1 Source HGNC Symbol Acc HGNC 1499
A05	UPFH0192343	ENST00000393468.1	CAV1	ENSG00000105974	caveolin 1 Source HGNC Symbol Acc HGNC 1527
A06	UPFH1132783	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A07	UPFH1132786	ENST00000603197.6	CCL5	ENSG00000271503	C-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10632
A08	UPFH1132789	ENST00000245903.4	CD70	ENSG00000125726	CD70 molecule Source NCBI gene Acc 970
A09	UPFH1132790	ENST00000264246.8	CD80	ENSG00000121594	CD80 molecule Source HGNC Symbol Acc HGNC 1700
A10	UPFH0045195	ENST00000393627.6	CD86	ENSG00000114013	CD86 molecule Source HGNC Symbol Acc HGNC 1705
A11	UPFH1132964	ENST00000228872.9	CDKN1B	ENSG00000111276	cyclin dependent kinase inhibitor 1B Source HGNC Symbol Acc HGNC 1785
A12	UPFH0518652	ENST00000324288.13	CIITA	ENSG00000179583	class II major histocompatibility complex transactivator Source HGNC Symbol Acc HGNC 7067
B01	UPFH0143745	ENST00000255030.9	CRP	ENSG00000132693	C-reactive protein Source HGNC Symbol Acc HGNC 2367
B02	UPFH0196315	ENST00000306602.3	CXCL10	ENSG00000169245	C-X-C motif chemokine ligand 10 Source HGNC Symbol Acc HGNC 10637
B03	UPFH1132356	ENST00000379883.3	DDX58	ENSG00000107201	DExD/H-box helicase 58 Source HGNC Symbol Acc HGNC 19102
B04	UPFH0317953	ENST00000395127.6	EIF2AK2	ENSG00000055332	eukaryotic translation initiation factor 2 alpha kinase 2 Source HGNC Symbol Acc HGNC 9437
B05	UPFH0001186	ENST00000493139.1	GBP1	ENSG00000117228	guanylate binding protein 1 Source HGNC Symbol Acc HGNC 4182
B06	UPFH1132449	ENST00000376809.10	HLA-A	ENSG00000206503	major histocompatibility complex, class I, A Source HGNC Symbol Acc HGNC 4931
B07	UPFH1132450	ENST00000412585.7	HLA-B	ENSG00000234745	major histocompatibility complex, class I, B Source HGNC Symbol Acc HGNC 4932
B08	UPFH1132451	ENST00000376630.5	HLA-E	ENSG00000204592	major histocompatibility complex, class I, E Source HGNC Symbol Acc HGNC 4962
B09	UPFH1132452	ENST00000428701.5	HLA-G	ENSG00000204632	major histocompatibility complex, class I, G Source HGNC Symbol Acc HGNC 4964
B10	UPFH0267618	ENST00000368131.8	IFI16	ENSG00000163565	interferon gamma inducible protein 16 Source HGNC Symbol Acc HGNC 5395
B11	UPFH0038444	ENST00000621160.4	IFI27	ENSG00000165949	interferon alpha inducible protein 27 Source HGNC Symbol Acc HGNC 5397
B12	UPFH1132467	ENST00000407280.4	IFI30	ENSG00000216490	IFI30, lysosomal thiol reductase Source HGNC Symbol Acc HGNC 5398
C01	UPFH1132468	ENST00000361157.11	IFI6	ENSG00000126709	interferon alpha inducible protein 6 Source HGNC Symbol Acc HGNC 4054
C02	UPFH0315757	ENST00000263642.2	IFIH1	ENSG00000115267	interferon induced with helicase C domain 1 Source HGNC Symbol Acc HGNC 18873
C03	UPFH1132469	ENST00000371804.4	IFIT1	ENSG00000185745	interferon induced protein with tetratricopeptide repeats 1 Source HGNC Symbol Acc HGNC 5407
C04	UPFH1132470	ENST00000638108.1	IFIT2	ENSG00000119922	interferon induced protein with tetratricopeptide repeats 2 Source HGNC Symbol Acc HGNC 5409
C05	UPFH0190197	ENST00000371811.4	IFIT3	ENSG00000119917	interferon induced protein with tetratricopeptide repeats 3 Source HGNC Symbol Acc HGNC 5411
C06	UPFH1132471	ENST00000408968.4	IFITM1	ENSG00000185885	interferon induced transmembrane protein 1 Source HGNC Symbol Acc HGNC 5412
C07	UPFH1132911	ENST00000533141.1	IFITM2	ENSG00000185201	interferon induced transmembrane protein 2 Source HGNC Symbol Acc HGNC 5413
C08	UPFH0153872	ENST00000526811.4	IFITM3	ENSG00000142089	interferon induced transmembrane protein 3 Source HGNC Symbol Acc HGNC 5414
C09	UPFH0577805	ENST00000276927.2	IFNA1	ENSG00000197919	interferon alpha 1 Source HGNC Symbol Acc HGNC 5417
C10	UPFH0206613	ENST00000380206.3	IFNA2	ENSG00000188379	interferon alpha 2 Source HGNC Symbol Acc HGNC 5423
		ENST00000421		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0532650	715.2	IFNA4	236637	interferon alpha 4 Source HGNC Symbol Acc HGNC 5425
C12	UPFH1132472	ENST00000270139.8	IFNAR1	ENSG00000142166	interferon alpha and beta receptor subunit 1 Source HGNC Symbol Acc HGNC 5432
D01	UPFH0538480	ENST00000382264.7	IFNAR2	ENSG00000159110	interferon alpha and beta receptor subunit 2 Source HGNC Symbol Acc HGNC 5433
D02	UPFH1132806	ENST00000380232.4	IFNB1	ENSG00000171855	interferon beta 1 Source HGNC Symbol Acc HGNC 5434
D03	UPFH0445264	ENST00000448696.4	IFNE	ENSG00000184995	interferon epsilon Source HGNC Symbol Acc HGNC 18163
D04	UPFH0416983	ENST00000380229.3	IFNW1	ENSG00000177047	interferon omega 1 Source HGNC Symbol Acc HGNC 5448
D05	UPFH0028177	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D06	UPFH1132873	ENST00000296545.11	IL15	ENSG00000164136	interleukin 15 Source HGNC Symbol Acc HGNC 5977
D07	UPFH1172910	ENST00000258743.10	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
D08	UPFH1132490	ENST00000476613.1	IRF1	ENSG00000125347	interferon regulatory factor 1 Source HGNC Symbol Acc HGNC 6116
D09	UPFH1132491	ENST00000506230.5	IRF2	ENSG00000168310	interferon regulatory factor 2 Source HGNC Symbol Acc HGNC 6117
D10	UPFH0390278	ENST00000599144.5	IRF3	ENSG00000126456	interferon regulatory factor 3 Source HGNC Symbol Acc HGNC 6118
D11	UPFH1132492	ENST00000479582.5	IRF5	ENSG00000128604	interferon regulatory factor 5 Source HGNC Symbol Acc HGNC 6120
D12	UPFH1132493	ENST00000348655.11	IRF7	ENSG00000185507	interferon regulatory factor 7 Source HGNC Symbol Acc HGNC 6122
E01	UPFH0526820	ENST00000396864.7	IRF9	ENSG00000213928	interferon regulatory factor 9 Source HGNC Symbol Acc HGNC 6131
E02	UPFH1132494	ENST00000379389.4	ISG15	ENSG00000187608	ISG15 ubiquitin-like modifier Source HGNC Symbol Acc HGNC 4053
E03	UPFH1132495	ENST00000560741.5	ISG20	ENSG00000172183	interferon stimulated exonuclease gene 20 Source HGNC Symbol Acc HGNC 6130
E04	UPFH1132963	ENST00000342505.5	JAK1	ENSG00000162434	Janus kinase 1 Source HGNC Symbol Acc HGNC 6190
E05	UPFH1132818	ENST00000381652.3	JAK2	ENSG00000096968	Janus kinase 2 Source HGNC Symbol Acc HGNC 6192
E06	UPFH1132529	ENST00000354078.7	MAL	ENSG00000172005	mal, T cell differentiation protein Source HGNC Symbol Acc HGNC 6817
E07	UPFH1132915	ENST00000436117.2	MET	ENSG00000105976	MET proto-oncogene, receptor tyrosine kinase Source HGNC Symbol Acc HGNC 7029
E08	UPFH1132553	ENST00000368141.5	MNDA	ENSG00000163563	myeloid cell nuclear differentiation antigen Source HGNC Symbol Acc HGNC 7183
E09	UPFH1132561	ENST00000398600.6	MX1	ENSG00000157601	MX dynamin like GTPase 1 Source HGNC Symbol Acc HGNC 7532
E10	UPFH1132562	ENST00000330714.8	MX2	ENSG00000183486	MX dynamin like GTPase 2 Source HGNC Symbol Acc HGNC 7533
E11	UPFH1125930	ENST00000648963.1	MYD88	ENSG00000172936	MYD88, innate immune signal transduction adaptor Source HGNC Symbol Acc HGNC 7562
E12	UPFH0464290	ENST00000243346.9	NMI	ENSG00000123609	N-myc and STAT interactor Source HGNC Symbol Acc HGNC 7854
F01	UPFH0572128	ENST00000313735.10	NOS2	ENSG00000007171	nitric oxide synthase 2 Source HGNC Symbol Acc HGNC 7873
F02	UPFH1132918	ENST00000550689.1	OAS1	ENSG00000089127	2'-5'-oligoadenylate synthetase 1 Source HGNC Symbol Acc HGNC 8086
F03	UPFH1132896	ENST00000620097.1	OAS2	ENSG00000111335	2'-5'-oligoadenylate synthetase 2 Source HGNC Symbol Acc HGNC 8087
F04	UPFH1125311	ENST00000268058.7	PML	ENSG00000140464	promyelocytic leukemia Source HGNC Symbol Acc HGNC 9113
F05	UPFH1132634	ENST00000378567.8	PRKCZ	ENSG00000067606	protein kinase C zeta Source HGNC Symbol Acc HGNC 9412
F06	UPFH1132640	ENST00000615264.4	PSME2	ENSG00000100911	proteasome activator subunit 2 Source HGNC Symbol Acc HGNC 9569
F07	UPFH0386648	ENST00000360027.4	SH2D1A	ENSG00000183918	SH2 domain containing 1A Source HGNC Symbol Acc HGNC 10820
F08	UPFH1132680	ENST00000377707.4	SHB	ENSG00000107338	SH2 domain containing adaptor protein B Source HGNC Symbol Acc HGNC 10838
F09	UPFH1132887	ENST00000644787.1	SOCS1	ENSG00000185338	suppressor of cytokine signaling 1 Source HGNC Symbol Acc HGNC 19383
F10	UPFH1132696	ENST00000392323.6	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0338707	ENST00000652741.1	STAT2	ENSG00000170581	signal transducer and activator of transcription 2 Source HGNC Symbol Acc HGNC 11363
F12	UPFH0531262	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G01	UPFH1132705	ENST00000354258.4	TAP1	ENSG00000168394	transporter 1, ATP binding cassette subfamily B member Source HGNC Symbol Acc HGNC 43
G02	UPFH1132848	ENST00000248244.5	TICAM1	ENSG00000127666	toll like receptor adaptor molecule 1 Source NCBI gene Acc 148022
G03	UPFH1132725	ENST00000456754.6	TIMP1	ENSG00000102265	TIMP metalloproteinase inhibitor 1 Source HGNC Symbol Acc HGNC 11820
G04	UPFH0561110	ENST00000296795.7	TLR3	ENSG00000164342	toll like receptor 3 Source HGNC Symbol Acc HGNC 11849
G05	UPFH1132849	ENST00000380659.4	TLR7	ENSG00000196664	toll like receptor 7 Source HGNC Symbol Acc HGNC 15631
G06	UPFH0324928	ENST00000218032.6	TLR8	ENSG00000101916	toll like receptor 8 Source HGNC Symbol Acc HGNC 15632
G07	UPFH1172915	ENST00000360658.2	TLR9	ENSG00000239732	toll like receptor 9 Source HGNC Symbol Acc HGNC 15633
G08	UPFH0317460	ENST00000652271.1	TMEM173	ENSG00000184584	transmembrane protein 173 Source HGNC Symbol Acc HGNC 27962
G09	UPFH1132733	ENST00000241261.7	TNFSF10	ENSG00000121858	TNF superfamily member 10 Source HGNC Symbol Acc HGNC 11925
G10	UPFH0301511	ENST00000560371.5	TRAF3	ENSG00000131323	TNF receptor associated factor 3 Source HGNC Symbol Acc HGNC 12033
G11	UPFH0496191	ENST00000525621.5	TYK2	ENSG00000105397	tyrosine kinase 2 Source HGNC Symbol Acc HGNC 12440
G12	UPFH0281656	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
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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