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

Human HIV Host response

Cat. no. 249955 UPHS-051ZR

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	APEX1	APOBEC3G	BAD	BANF1	BAX	BCL11B	BCL2	BTRC	CASP3	CASP8	CBX5	CCL2
B	CCL3	CCL4	CCL5	CCL8	CCNT1	CCR2	CCR3	CCR4	CCR5	CD209	CD247	CD4
C	CD44	CD69	CD74	CDK7	CDK9	CDKN1A	CEBPB	COPS6	CR2	CREBBP	CX3CL1	CXCL12
D	CXCR4	ELANE	EP300	FCAR	FOS	GADD45A	HCK	HTATSF1	IFNA1	IFNB1	IFNG	IL10
E	IL12B	IL16	IL1B	IL2	CXCL8	IRF1	IRF2	KLRD1	LTBR	MAP3K5	MBL2	NFATC1
F	NFKB1	NFKBIA	PPIA	PRDX1	PTK2B	RBL2	SELL	SERPINA1	SERPINC1	SLPI	SMARCB1	STAT1
G	STAT3	TFCP2	TGFB1	TNF	TNFRSF1B	TNFSF10	TRIM5	TSG101	VPS4A	XCL1	XPO1	YY1
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	UPFH0321059	ENST00000555414.5	APEX1	ENSG00000100823	apurinic/apyrimidinic endodeoxyribonuclease 1 Source HGNC Symbol Acc HGNC 587
A02	UPFH1132237	ENST00000407997.4	APOBEC3G	ENSG00000239713	apolipoprotein B mRNA editing enzyme catalytic subunit 3G Source HGNC Symbol Acc HGNC 17357
A03	UPFH0437748	ENST00000394532.7	BAD	ENSG00000002330	BCL2 associated agonist of cell death Source HGNC Symbol Acc HGNC 936
A04	UPFH0192446	ENST00000312175.7	BANF1	ENSG00000175334	barrier to autointegration factor 1 Source HGNC Symbol Acc HGNC 17397
A05	UPFH0540159	ENST00000293288.12	BAX	ENSG00000087088	BCL2 associated X, apoptosis regulator Source HGNC Symbol Acc HGNC 959
A06	UPFH0398935	ENST00000357195.8	BCL11B	ENSG00000127152	BCL11B, BAF complex component Source HGNC Symbol Acc HGNC 13222
A07	UPFH1132900	ENST00000333681.5	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A08	UPFH0358747	ENST00000370187.8	BTRC	ENSG00000166167	beta-transducin repeat containing E3 ubiquitin protein ligase Source HGNC Symbol Acc HGNC 1144
A09	UPFH1132892	ENST00000523916.5	CASP3	ENSG00000164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
A10	UPFH0522971	ENST00000264275.9	CASP8	ENSG00000064012	caspase 8 Source HGNC Symbol Acc HGNC 1509
A11	UPFH0096609	ENST00000552562.1	CBX5	ENSG00000094916	chromobox 5 Source HGNC Symbol Acc HGNC 1555
A12	UPFH1132783	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
B01	UPFH1132784	ENST00000613922.2	CCL3	ENSG00000277632	C-C motif chemokine ligand 3 Source HGNC Symbol Acc HGNC 10627
B02	UPFH1132785	ENST00000615863.2	CCL4	ENSG00000275302	C-C motif chemokine ligand 4 Source HGNC Symbol Acc HGNC 10630
B03	UPFH1132786	ENST00000603197.6	CCL5	ENSG00000271503	C-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10632
B04	UPFH1132787	ENST00000394620.2	CCL8	ENSG00000108700	C-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 10635
B05	UPFH1132931	ENST00000640148.1	CCNT1	ENSG00000129315	cyclin T1 Source HGNC Symbol Acc HGNC 1599
B06	UPFH0175349	ENST00000445132.2	CCR2	ENSG00000121807	C-C motif chemokine receptor 2 Source HGNC Symbol Acc HGNC 1603
B07	UPFH1132788	ENST00000395940.3	CCR3	ENSG00000183625	C-C motif chemokine receptor 3 Source HGNC Symbol Acc HGNC 1604
B08	UPFH0179708	ENST00000330953.5	CCR4	ENSG00000183813	C-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 1605
B09	UPFH1132860	ENST00000292303.4	CCR5	ENSG00000160791	C-C motif chemokine receptor 5 (gene/pseudogene) Source HGNC Symbol Acc HGNC 1606
B10	UPFH0023634	ENST00000315591.12	CD209	ENSG00000090659	CD209 molecule Source HGNC Symbol Acc HGNC 1641
B11	UPFH0419328	ENST00000476733.5	CD247	ENSG00000198821	CD247 molecule Source HGNC Symbol Acc HGNC 1677
B12	UPFH1132302	ENST00000541982.5	CD4	ENSG00000010610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
C01	UPFH0253499	ENST00000428726.7	CD44	ENSG00000026508	CD44 molecule (Indian blood group) Source HGNC Symbol Acc HGNC 1681
C02	UPFH0464998	ENST00000228434.7	CD69	ENSG00000110848	CD69 molecule Source HGNC Symbol Acc HGNC 1694
C03	UPFH0164282	ENST00000523208.5	CD74	ENSG00000019582	CD74 molecule Source HGNC Symbol Acc HGNC 1697
C04	UPFH1132310	ENST00000256443.8	CDK7	ENSG00000134058	cyclin dependent kinase 7 Source HGNC Symbol Acc HGNC 1778
C05	UPFH0331422	ENST00000480353.5	CDK9	ENSG00000136807	cyclin dependent kinase 9 Source HGNC Symbol Acc HGNC 1780
C06	UPFH0312181	ENST00000244741.9	CDKN1A	ENSG00000124762	cyclin dependent kinase inhibitor 1A Source HGNC Symbol Acc HGNC 1784
C07	UPFH0202295	ENST00000303004.4	CEBPB	ENSG00000172216	CCAAT enhancer binding protein beta Source HGNC Symbol Acc HGNC 1834
C08	UPFH0247726	ENST00000426712.1	COPS6	ENSG00000168090	COP9 signalosome subunit 6 Source HGNC Symbol Acc HGNC 21749
C09	UPFH0452392	ENST00000367058.7	CR2	ENSG00000117322	complement C3d receptor 2 Source HGNC Symbol Acc HGNC 2336
C10	UPFH0338543	ENST00000573517.6	CREBBP	ENSG00000005339	CREB binding protein Source HGNC Symbol Acc HGNC 2348
		ENST00000006		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1132348	053.7	CX3CL1	006210	C-X3-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 10647
C12	UPFH0092551	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
D01	UPFH0570418	ENST00000241393.3	CXCR4	ENSG00000121966	C-X-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 2561
D02	UPFH0053155	ENST00000263621.2	ELANE	ENSG00000197561	elastase, neutrophil expressed Source HGNC Symbol Acc HGNC 3309
D03	UPFH0118049	ENST00000635691.1	EP300	ENSG00000100393	E1A binding protein p300 Source HGNC Symbol Acc HGNC 3373
D04	UPFH0335185	ENST00000353758.8	FCAR	ENSG00000186431	Fc fragment of IgA receptor Source HGNC Symbol Acc HGNC 3608
D05	UPFH1132401	ENST00000555242.1	FOS	ENSG00000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
D06	UPFH1132413	ENST00000370985.4	GADD45A	ENSG00000116717	growth arrest and DNA damage inducible alpha Source HGNC Symbol Acc HGNC 4095
D07	UPFH0405886	ENST00000629881.2	HCK	ENSG00000101336	HCK proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 4840
D08	UPFH0290305	ENST00000535601.5	HTATSF1	ENSG00000102241	HIV-1 Tat specific factor 1 Source HGNC Symbol Acc HGNC 5276
D09	UPFH0577805	ENST00000276927.2	IFNA1	ENSG00000197919	interferon alpha 1 Source HGNC Symbol Acc HGNC 5417
D10	UPFH1132806	ENST00000380232.4	IFNB1	ENSG00000171855	interferon beta 1 Source HGNC Symbol Acc HGNC 5434
D11	UPFH1132473	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
D12	UPFH0028177	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
E01	UPFH0131869	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
E02	UPFH0104353	ENST00000394652.6	IL16	ENSG00000172349	interleukin 16 Source HGNC Symbol Acc HGNC 5980
E03	UPFH0163764	ENST00000263341.6	IL1B	ENSG00000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
E04	UPFH0116492	ENST00000226730.4	IL2	ENSG00000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
E05	UPFH0120553	ENST00000307407.8	CXCL8	ENSG00000169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
E06	UPFH1132490	ENST00000476613.1	IRF1	ENSG00000125347	interferon regulatory factor 1 Source HGNC Symbol Acc HGNC 6116
E07	UPFH1132491	ENST00000506230.5	IRF2	ENSG00000168310	interferon regulatory factor 2 Source HGNC Symbol Acc HGNC 6117
E08	UPFH0257432	ENST00000350274.9	KLRD1	ENSG00000134539	killer cell lectin like receptor D1 Source HGNC Symbol Acc HGNC 6378
E09	UPFH1132825	ENST00000228918.9	LTBR	ENSG00000111321	lymphotoxin beta receptor Source HGNC Symbol Acc HGNC 6718
E10	UPFH0306760	ENST00000463140.1	MAP3K5	ENSG00000197442	mitogen-activated protein kinase kinase kinase 5 Source HGNC Symbol Acc HGNC 6857
E11	UPFH0432165	ENST00000373968.3	MBL2	ENSG00000165471	mannose binding lectin 2 Source HGNC Symbol Acc HGNC 6922
E12	UPFH0595445	ENST00000591814.5	NFATC1	ENSG00000131196	nuclear factor of activated T cells 1 Source HGNC Symbol Acc HGNC 7775
F01	UPFH1132828	ENST00000226574.9	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
F02	UPFH0444462	ENST00000216797.9	NFKBIA	ENSG00000100906	NFKB inhibitor alpha Source HGNC Symbol Acc HGNC 7797
F03	UPFH1172937	ENST00000479021.1	PPIA	ENSG00000196262	peptidylprolyl isomerase A Source HGNC Symbol Acc HGNC 9253
F04	UPFH1132631	ENST00000262746.5	PRDX1	ENSG00000117450	peroxiredoxin 1 Source HGNC Symbol Acc HGNC 9352
F05	UPFH0298721	ENST00000519512.5	PTK2B	ENSG00000120899	protein tyrosine kinase 2 beta Source HGNC Symbol Acc HGNC 9612
F06	UPFH1132654	ENST00000544405.6	RBL2	ENSG00000103479	RB transcriptional corepressor like 2 Source HGNC Symbol Acc HGNC 9894
F07	UPFH0444664	ENST00000236147.5	SELL	ENSG00000188404	selectin L Source HGNC Symbol Acc HGNC 10720
F08	UPFH0163116	ENST00000393087.8	SERPINA1	ENSG00000197249	serpin family A member 1 Source HGNC Symbol Acc HGNC 8941
F09	UPFH0531559	ENST00000367698.3	SERPINC1	ENSG00000117601	serpin family C member 1 Source HGNC Symbol Acc HGNC 775
F10	UPFH0063870	ENST00000338380.2	SLPI	ENSG00000124107	secretory leukocyte peptidase inhibitor Source HGNC Symbol Acc HGNC 11092

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0516234	ENST00000407422.8	SMARCB1	ENSG00000099956	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1 Source HGNC Symbol Acc HGNC 11103
F12	UPFH1132696	ENST00000392323.6	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G01	UPFH0531262	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G02	UPFH0109114	ENST00000549867.5	TFCP2	ENSG00000135457	transcription factor CP2 Source HGNC Symbol Acc HGNC 11748
G03	UPFH0193430	ENST00000221930.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G04	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G05	UPFH1132926	ENST00000536782.2	TNFRSF1B	ENSG00000028137	TNF receptor superfamily member 1B Source HGNC Symbol Acc HGNC 11917
G06	UPFH1132733	ENST00000241261.7	TNFSF10	ENSG00000121858	TNF superfamily member 10 Source HGNC Symbol Acc HGNC 11925
G07	UPFH0530517	ENST00000465634.5	TRIM5	ENSG00000132256	tripartite motif containing 5 Source HGNC Symbol Acc HGNC 16276
G08	UPFH0350923	ENST00000543054.5	TSG101	ENSG00000074319	tumor susceptibility 101 Source HGNC Symbol Acc HGNC 15971
G09	UPFH0586881	ENST00000254950.13	VPS4A	ENSG00000132612	vacuolar protein sorting 4 homolog A Source HGNC Symbol Acc HGNC 13488
G10	UPFH0495407	ENST00000367818.4	XCL1	ENSG00000143184	X-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 10645
G11	UPFH0425712	ENST00000420673.5	XPO1	ENSG00000082898	exportin 1 Source HGNC Symbol Acc HGNC 12825
G12	UPFH0134182	ENST00000553625.5	YY1	ENSG00000100811	YY1 transcription factor Source HGNC Symbol Acc HGNC 12856
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.