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

Human Necrosis

Cat. no. 249955 UPHS-141ZR

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	AIFM1	ATP6V1G2	BAX	BID	BIRC3	BMF	BNIP3L	C1orf159	CAPN1	CAPN2	CAPN3	CAPN5
B	CAPN6	CAPN7	CAPNS1	CASP8AP2	CCDC103	CD40	COMMD4	CYBB	CYLD	DEFB1	DENND4A	DPYSL4
C	EDA2R	EIF5B	FADD	FAF1	FAS	FASLG	FEM1B	FOXI1	FUS	GALNT5	GLUD1	GLUL
D	GRB2	HSPBAP1	IKBKG	JPH3	KCNIP1	MADD	MAG	OGA	MYD88	NFKB1	NGF	NGFR
E	BEX3	NOX1	NOX4	OR10J3	PARP1	PARP2	PIDD1	PPIA	PPID	PVR	PYGL	RAB25
F	RIPK1	RIPK2	RIPK3	S100A7A	SLC25A4	SP1	SPATA2	SYCP2	TMEM123	MACO1	TNF	TNFRSF10A
G	TNFRSF14	TNFRSF17	TNFRSF1A	TNFRSF1B	TNFRSF25	TNFRSF4	TNFRSF8	TNFSF10	TNFSF15	TRADD	TRAF2	TXNL4B
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	UPFH1132774	ENST00000287295.8	AIFM1	ENSG00000156709	apoptosis inducing factor mitochondria associated 1 Source HGNC Symbol Acc HGNC 8768
A02	UPFH0064740	ENST00000415099.2	ATP6V1G2	ENSG00000213760	ATPase H+ transporting V1 subunit G2 Source HGNC Symbol Acc HGNC 862
A03	UPFH0540159	ENST00000293288.12	BAX	ENSG00000087088	BCL2 associated X, apoptosis regulator Source HGNC Symbol Acc HGNC 959
A04	UPFH0184066	ENST00000622694.4	BID	ENSG00000015475	BH3 interacting domain death agonist Source HGNC Symbol Acc HGNC 1050
A05	UPFH0113281	ENST00000615299.4	BIRC3	ENSG00000023445	baculoviral IAP repeat containing 3 Source HGNC Symbol Acc HGNC 591
A06	UPFH0520627	ENST00000431415.3	BMF	ENSG00000104081	Bcl2 modifying factor Source HGNC Symbol Acc HGNC 24132
A07	UPFH1132277	ENST00000520409.5	BNIP3L	ENSG00000104765	BCL2 interacting protein 3 like Source HGNC Symbol Acc HGNC 1085
A08	UPFH0232425	ENST00000379320.5	C1orf159	ENSG00000131591	chromosome 1 open reading frame 159 Source HGNC Symbol Acc HGNC 26062
A09	UPFH0597247	ENST00000527323.5	CAPN1	ENSG00000014216	calpain 1 Source HGNC Symbol Acc HGNC 1476
A10	UPFH0544717	ENST00000433674.6	CAPN2	ENSG00000162909	calpain 2 Source HGNC Symbol Acc HGNC 1479
A11	UPFH0273772	ENST00000356316.7	CAPN3	ENSG00000092529	calpain 3 Source HGNC Symbol Acc HGNC 1480
A12	UPFH0143715	ENST00000456580.6	CAPN5	ENSG00000149260	calpain 5 Source HGNC Symbol Acc HGNC 1482
B01	UPFH0607364	ENST00000324068.2	CAPN6	ENSG00000077274	calpain 6 Source HGNC Symbol Acc HGNC 1483
B02	UPFH0011097	ENST00000253693.7	CAPN7	ENSG00000131375	calpain 7 Source HGNC Symbol Acc HGNC 1484
B03	UPFH0389335	ENST00000246533.7	CAPNS1	ENSG00000126247	calpain small subunit 1 Source HGNC Symbol Acc HGNC 1481
B04	UPFH0228561	ENST00000547893.5	CASP8AP2	ENSG00000118412	caspase 8 associated protein 2 Source HGNC Symbol Acc HGNC 1510
B05	UPFH0237552	ENST00000410006.6	CCDC103	ENSG00000167131	coiled-coil domain containing 103 Source HGNC Symbol Acc HGNC 32700
B06	UPFH0317626	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
B07	UPFH0282408	ENST00000564815.5	COMMD4	ENSG00000140365	COMM domain containing 4 Source HGNC Symbol Acc HGNC 26027
B08	UPFH0181004	ENST00000378588.4	CYBB	ENSG00000165168	cytochrome b-245 beta chain Source HGNC Symbol Acc HGNC 2578
B09	UPFH0025683	ENST00000311559.13	CYLD	ENSG00000083799	CYLD lysine 63 deubiquitinase Source HGNC Symbol Acc HGNC 2584
B10	UPFH0256759	ENST00000297439.4	DEFB1	ENSG00000164825	defensin beta 1 Source HGNC Symbol Acc HGNC 2766
B11	UPFH0345459	ENST00000635620.1	DENND4A	ENSG00000174485	DENN domain containing 4A Source HGNC Symbol Acc HGNC 24321
B12	UPFH0109303	ENST00000471544.1	DPYSL4	ENSG00000151640	dihydropyrimidinase like 4 Source HGNC Symbol Acc HGNC 3016
C01	UPFH0595594	ENST00000451436.6	EDA2R	ENSG00000131080	ectodysplasin A2 receptor Source HGNC Symbol Acc HGNC 17756
C02	UPFH0140244	ENST00000289371.11	EIF5B	ENSG00000158417	eukaryotic translation initiation factor 5B Source HGNC Symbol Acc HGNC 30793
C03	UPFH1132906	ENST00000301838.4	FADD	ENSG00000168040	Fas associated via death domain Source HGNC Symbol Acc HGNC 3573
C04	UPFH0533704	ENST00000494400.5	FAF1	ENSG00000185104	Fas associated factor 1 Source HGNC Symbol Acc HGNC 3578
C05	UPFH1132395	ENST00000357339.6	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
C06	UPFH1132396	ENST00000367721.3	FASLG	ENSG00000117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
C07	UPFH0166223	ENST00000566008.1	FEM1B	ENSG00000169018	fem-1 homolog B Source HGNC Symbol Acc HGNC 3649
C08	UPFH0204878	ENST00000449804.4	FOXI1	ENSG00000168269	forkhead box I1 Source HGNC Symbol Acc HGNC 3815
C09	UPFH0304951	ENST00000474990.5	FUS	ENSG00000089280	FUS RNA binding protein Source HGNC Symbol Acc HGNC 4010
C10	UPFH0495936	ENST00000259056.5	GALNT5	ENSG00000136542	polypeptide N-acetylgalactosaminyltransferase 5 Source HGNC Symbol Acc HGNC 4127
		ENST00000474		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0112821	574.1	GLUD1	148672	glutamate dehydrogenase 1 Source HGNC Symbol Acc HGNC 4335
C12	UPFH0149415	ENST00000462444.1	GLUL	ENSG00000135821	glutamate-ammonia ligase Source HGNC Symbol Acc HGNC 4341
D01	UPFH1132426	ENST00000392564.5	GRB2	ENSG00000177885	growth factor receptor bound protein 2 Source HGNC Symbol Acc HGNC 4566
D02	UPFH0084399	ENST00000467643.5	HSPBAP1	ENSG00000169087	HSPB1 associated protein 1 Source HGNC Symbol Acc HGNC 16389
D03	UPFH0226012	ENST00000611176.4	IKBKG	ENSG00000269335	inhibitor of nuclear factor kappa B kinase subunit gamma Source HGNC Symbol Acc HGNC 5961
D04	UPFH0096318	ENST00000537256.5	JPH3	ENSG00000154118	junctophilin 3 Source HGNC Symbol Acc HGNC 14203
D05	UPFH0584507	ENST00000434108.5	KCNIP1	ENSG00000182132	potassium voltage-gated channel interacting protein 1 Source HGNC Symbol Acc HGNC 15521
D06	UPFH0424662	ENST00000405573.2	MADD	ENSG00000110514	MAP kinase activating death domain Source HGNC Symbol Acc HGNC 6766
D07	UPFH0265574	ENST00000595791.5	MAG	ENSG00000105695	myelin associated glycoprotein Source HGNC Symbol Acc HGNC 6783
D08	UPFH0559561	ENST00000361464.8	OGA	ENSG00000198408	O-GlcNAcase Source HGNC Symbol Acc HGNC 7056
D09	UPFH1125930	ENST00000648963.1	MYD88	ENSG00000172936	MYD88, innate immune signal transduction adaptor Source HGNC Symbol Acc HGNC 7562
D10	UPFH1132828	ENST00000226574.9	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
D11	UPFH0235569	ENST00000369512.2	NGF	ENSG00000134259	nerve growth factor Source HGNC Symbol Acc HGNC 7808
D12	UPFH0277610	ENST00000172229.8	NGFR	ENSG00000064300	nerve growth factor receptor Source HGNC Symbol Acc HGNC 7809
E01	UPFH0369870	ENST00000372635.1	BEX3	ENSG00000166681	brain expressed X-linked 3 Source HGNC Symbol Acc HGNC 13388
E02	UPFH0555471	ENST00000372964.5	NOX1	ENSG00000007952	NADPH oxidase 1 Source HGNC Symbol Acc HGNC 7889
E03	UPFH0055322	ENST00000531342.5	NOX4	ENSG00000086991	NADPH oxidase 4 Source HGNC Symbol Acc HGNC 7891
E04	UPFH0488504	ENST00000649616.1	OR10J3	ENSG00000196266	olfactory receptor family 10 subfamily J member 3 Source HGNC Symbol Acc HGNC 14992
E05	UPFH0203594	ENST00000490921.5	PARP1	ENSG00000143799	poly(ADP-ribose) polymerase 1 Source HGNC Symbol Acc HGNC 270
E06	UPFH0154861	ENST00000527915.5	PARP2	ENSG00000129484	poly(ADP-ribose) polymerase 2 Source HGNC Symbol Acc HGNC 272
E07	UPFH0080607	ENST00000347755.10	PIDD1	ENSG00000177595	p53-induced death domain protein 1 Source HGNC Symbol Acc HGNC 16491
E08	UPFH1172937	ENST00000479021.1	PPIA	ENSG00000196262	peptidylprolyl isomerase A Source HGNC Symbol Acc HGNC 9253
E09	UPFH0090909	ENST00000307720.4	PPID	ENSG00000171497	peptidylprolyl isomerase D Source HGNC Symbol Acc HGNC 9257
E10	UPFH1132644	ENST00000403059.8	PVR	ENSG00000073008	poliovirus receptor Source HGNC Symbol Acc HGNC 9705
E11	UPFH1132646	ENST00000544180.6	PYGL	ENSG00000100504	glycogen phosphorylase L Source HGNC Symbol Acc HGNC 9725
E12	UPFH0471247	ENST00000361084.10	RAB25	ENSG00000132698	RAB25, member RAS oncogene family Source HGNC Symbol Acc HGNC 18238
F01	UPFH0390785	ENST00000380409.2	RIPK1	ENSG00000137275	receptor interacting serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 10019
F02	UPFH1132658	ENST00000220751.5	RIPK2	ENSG00000104312	receptor interacting serine/threonine kinase 2 Source HGNC Symbol Acc HGNC 10020
F03	UPFH0353932	ENST00000557662.1	RIPK3	ENSG00000129465	receptor interacting serine/threonine kinase 3 Source HGNC Symbol Acc HGNC 10021
F04	UPFH0602044	ENST00000368728.2	S100A7A	ENSG00000184330	S100 calcium binding protein A7A Source HGNC Symbol Acc HGNC 21657
F05	UPFH0547612	ENST00000281456.11	SLC25A4	ENSG00000151729	solute carrier family 25 member 4 Source HGNC Symbol Acc HGNC 10990
F06	UPFH1132843	ENST00000327443.9	SP1	ENSG00000185591	Sp1 transcription factor Source HGNC Symbol Acc HGNC 11205
F07	UPFH0337304	ENST00000422556.1	SPATA2	ENSG00000158480	spermatogenesis associated 2 Source HGNC Symbol Acc HGNC 14681
F08	UPFH0339147	ENST00000357552.8	SYCP2	ENSG00000196074	synaptonemal complex protein 2 Source HGNC Symbol Acc HGNC 11490
F09	UPFH0412803	ENST00000528969.5	TMEM123	ENSG00000152558	transmembrane protein 123 Source HGNC Symbol Acc HGNC 30138
F10	UPFH0616177	ENST00000374343.5	MACO1	ENSG00000204178	macoilin 1 Source HGNC Symbol Acc HGNC 25572

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
F12	UPFH1132888	ENST00000524158.5	TNFRSF10A	ENSG00000104689	TNF receptor superfamily member 10a Source HGNC Symbol Acc HGNC 11904
G01	UPFH0422651	ENST00000426449.5	TNFRSF14	ENSG00000157873	TNF receptor superfamily member 14 Source HGNC Symbol Acc HGNC 11912
G02	UPFH0538926	ENST00000396495.3	TNFRSF17	ENSG00000048462	TNF receptor superfamily member 17 Source HGNC Symbol Acc HGNC 11913
G03	UPFH1132732	ENST00000162749.6	TNFRSF1A	ENSG00000067182	TNF receptor superfamily member 1A Source HGNC Symbol Acc HGNC 11916
G04	UPFH1132926	ENST00000536782.2	TNFRSF1B	ENSG00000028137	TNF receptor superfamily member 1B Source HGNC Symbol Acc HGNC 11917
G05	UPFH0465524	ENST00000356876.7	TNFRSF25	ENSG00000215788	TNF receptor superfamily member 25 Source HGNC Symbol Acc HGNC 11910
G06	UPFH0433269	ENST00000497869.5	TNFRSF4	ENSG00000186827	TNF receptor superfamily member 4 Source HGNC Symbol Acc HGNC 11918
G07	UPFH0288248	ENST00000479933.2	TNFRSF8	ENSG00000120949	TNF receptor superfamily member 8 Source HGNC Symbol Acc HGNC 11923
G08	UPFH1132733	ENST00000241261.7	TNFSF10	ENSG00000121858	TNF superfamily member 10 Source HGNC Symbol Acc HGNC 11925
G09	UPFH0401828	ENST00000374044.1	TNFSF15	ENSG00000181634	TNF superfamily member 15 Source HGNC Symbol Acc HGNC 11931
G10	UPFH1132738	ENST00000345057.9	TRADD	ENSG00000102871	TNFRSF1A associated via death domain Source HGNC Symbol Acc HGNC 12030
G11	UPFH1132855	ENST00000247668.7	TRAF2	ENSG00000127191	TNF receptor associated factor 2 Source HGNC Symbol Acc HGNC 12032
G12	UPFH1132745	ENST00000426362.6	TXNL4B	ENSG00000140830	thioredoxin like 4B Source HGNC Symbol Acc HGNC 26041
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.