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

Human TNF Signaling Pathway

Cat. no. 249955 UPHS-063ZR

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	AGFG1	ARHGDIB	BAG4	CAD	CASP2	CASP3	CASP8	CD27	CD40	CD40LG	CD70	CHUK
B	CRADD	DFFA	DUSP1	EDA2R	FADD	FAS	FASLG	ELP1	IKBKB	IKBKG	JUN	LMNA
C	LMNB1	LMNB2	LTA	LTB	LTBR	MADD	MAP2K4	MAP3K1	MAP3K7	MAPK8	NFKB1	NFKBIA
D	NGFR	PAK1	PAK2	PARP1	PGLYRP1	PRKDC	PSMG2	RB1	RELT	SPTAN1	TNF	TNFAIP3
E	TNFRSF10A	TNFRSF10B	TNFRSF10C	TNFRSF10D	TNFRSF11A	TNFRSF11B	TNFRSF12A	TNFRSF13B	TNFRSF13C	TNFRSF14	TNFRSF17	TNFRSF18
F	TNFRSF19	TNFRSF1A	TNFRSF1B	TNFRSF21	TNFRSF25	TNFRSF4	TNFRSF6B	TNFRSF8	TNFRSF9	TNFSF10	TNFSF11	TNFSF12
G	TNFSF13	TNFSF13B	TNFSF14	TNFSF15	TNFSF18	TNFSF4	TNFSF8	TNFSF9	TRADD	TRAF1	TRAF2	TRAF3
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	UPFH0260351	ENST00000456 594.1	AGFG1	ENSG00000 173744	ArfGAP with FG repeats 1 Source HGNC Symbol Acc HGNC 5175
A02	UPFH0031825	ENST00000541 546.5	ARHGDIB	ENSG00000 111348	Rho GDP dissociation inhibitor beta Source HGNC Symbol Acc HGNC 679
A03	UPFH0609555	ENST00000521 311.1	BAG4	ENSG00000 156735	BCL2 associated athanogene 4 Source HGNC Symbol Acc HGNC 940
A04	UPFH0323565	ENST00000403 525.5	CAD	ENSG00000 084774	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase Source HGNC Symbol Acc HGNC 1424
A05	UPFH0459272	ENST00000350 623.7	CASP2	ENSG00000 106144	caspase 2 Source HGNC Symbol Acc HGNC 1503
A06	UPFH1132892	ENST00000523 916.5	CASP3	ENSG00000 164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
A07	UPFH0522971	ENST00000264 275.9	CASP8	ENSG00000 064012	caspase 8 Source HGNC Symbol Acc HGNC 1509
A08	UPFH0539172	ENST00000266 557.3	CD27	ENSG00000 139193	CD27 molecule Source HGNC Symbol Acc HGNC 11922
A09	UPFH0317626	ENST00000372 285.7	CD40	ENSG00000 101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
A10	UPFH0592498	ENST00000370 629.6	CD40LG	ENSG00000 102245	CD40 ligand Source HGNC Symbol Acc HGNC 11935
A11	UPFH1132789	ENST00000245 903.4	CD70	ENSG00000 125726	CD70 molecule Source NCBI gene Acc 970
A12	UPFH1132316	ENST00000370 397.8	CHUK	ENSG00000 213341	conserved helix-loop-helix ubiquitous kinase Source HGNC Symbol Acc HGNC 1974
B01	UPFH1132335	ENST00000332 896.8	CRADD	ENSG00000 169372	CASP2 and RIPK1 domain containing adaptor with death domain Source HGNC Symbol Acc HGNC 2340
B02	UPFH1132358	ENST00000377 036.2	DFFA	ENSG00000 160049	DNA fragmentation factor subunit alpha Source HGNC Symbol Acc HGNC 2772
B03	UPFH1132372	ENST00000239 223.4	DUSP1	ENSG00000 120129	dual specificity phosphatase 1 Source HGNC Symbol Acc HGNC 3064
B04	UPFH0595594	ENST00000451 436.6	EDA2R	ENSG00000 131080	ectodysplasin A2 receptor Source HGNC Symbol Acc HGNC 17756
B05	UPFH1132906	ENST00000301 838.4	FADD	ENSG00000 168040	Fas associated via death domain Source HGNC Symbol Acc HGNC 3573
B06	UPFH1132395	ENST00000357 339.6	FAS	ENSG00000 026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
B07	UPFH1132396	ENST00000367 721.3	FASLG	ENSG00000 117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
B08	UPFH0278963	ENST00000495 759.5	ELP1	ENSG00000 070061	elongator complex protein 1 Source HGNC Symbol Acc HGNC 5959
B09	UPFH0596293	ENST00000649 612.2	IKBKB	ENSG00000 104365	inhibitor of nuclear factor kappa B kinase subunit beta Source HGNC Symbol Acc HGNC 5960
B10	UPFH0226012	ENST00000611 176.4	IKBKG	ENSG00000 269335	inhibitor of nuclear factor kappa B kinase subunit gamma Source HGNC Symbol Acc HGNC 5961
B11	UPFH0569765	ENST00000371 222.3	JUN	ENSG00000 177606	Jun proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6204
B12	UPFH0218092	ENST00000368 299.7	LMNA	ENSG00000 160789	lamin A/C Source HGNC Symbol Acc HGNC 6636
C01	UPFH0052035	ENST00000472 034.5	LMNB1	ENSG00000 113368	lamin B1 Source HGNC Symbol Acc HGNC 6637
C02	UPFH0098623	ENST00000532 465.1	LMNB2	ENSG00000 176619	lamin B2 Source HGNC Symbol Acc HGNC 6638
C03	UPFH1132824	ENST00000454 783.5	LTA	ENSG00000 226979	lymphotoxin alpha Source HGNC Symbol Acc HGNC 6709
C04	UPFH0509119	ENST00000429 299.2	LTB	ENSG00000 227507	lymphotoxin beta Source HGNC Symbol Acc HGNC 6711
C05	UPFH1132825	ENST00000228 918.9	LTBR	ENSG00000 111321	lymphotoxin beta receptor Source HGNC Symbol Acc HGNC 6718
C06	UPFH0424662	ENST00000405 573.2	MADD	ENSG00000 110514	MAP kinase activating death domain Source HGNC Symbol Acc HGNC 6766
C07	UPFH1132531	ENST00000353 533.10	MAP2K4	ENSG00000 065559	mitogen-activated protein kinase kinase 4 Source HGNC Symbol Acc HGNC 6844
C08	UPFH1132532	ENST00000399 503.4	MAP3K1	ENSG00000 095015	mitogen-activated protein kinase kinase kinase 1 Source HGNC Symbol Acc HGNC 6848
C09	UPFH0381277	ENST00000369 327.7	MAP3K7	ENSG00000 135341	mitogen-activated protein kinase kinase kinase 7 Source HGNC Symbol Acc HGNC 6859
C10	UPFH1132535	ENST00000374 179.8	MAPK8	ENSG00000 107643	mitogen-activated protein kinase 8 Source HGNC Symbol Acc HGNC 6881
		ENST00000226		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1132828	574.9	NFKB1	109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
C12	UPFH0444462	ENST00000216797.9	NFKBIA	ENSG00000100906	NFKB inhibitor alpha Source HGNC Symbol Acc HGNC 7797
D01	UPFH0277610	ENST00000172229.8	NGFR	ENSG00000064300	nerve growth factor receptor Source HGNC Symbol Acc HGNC 7809
D02	UPFH0310946	ENST00000356341.7	PAK1	ENSG00000149269	p21 (RAC1) activated kinase 1 Source HGNC Symbol Acc HGNC 8590
D03	UPFH0578402	ENST00000426668.1	PAK2	ENSG00000180370	p21 (RAC1) activated kinase 2 Source HGNC Symbol Acc HGNC 8591
D04	UPFH0203594	ENST00000490921.5	PARP1	ENSG00000143799	poly(ADP-ribose) polymerase 1 Source HGNC Symbol Acc HGNC 270
D05	UPFH0574099	ENST00000008938.5	PGLYRP1	ENSG00000008438	peptidoglycan recognition protein 1 Source HGNC Symbol Acc HGNC 8904
D06	UPFH0575007	ENST00000314191.6	PRKDC	ENSG00000253729	protein kinase, DNA-activated, catalytic subunit Source HGNC Symbol Acc HGNC 9413
D07	UPFH0245048	ENST00000586445.5	PSMG2	ENSG00000128789	proteasome assembly chaperone 2 Source HGNC Symbol Acc HGNC 24929
D08	UPFH0001483	ENST00000267163.5	RB1	ENSG00000139687	RB transcriptional corepressor 1 Source HGNC Symbol Acc HGNC 9884
D09	UPFH0179247	ENST00000544075.5	RELT	ENSG00000054967	RELT, TNF receptor Source HGNC Symbol Acc HGNC 13764
D10	UPFH0127374	ENST00000630866.1	SPTAN1	ENSG00000197694	spectrin alpha, non-erythrocytic 1 Source HGNC Symbol Acc HGNC 11273
D11	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
D12	UPFH0576817	ENST00000485192.1	TNFAIP3	ENSG00000118503	TNF alpha induced protein 3 Source HGNC Symbol Acc HGNC 11896
E01	UPFH1132888	ENST00000524158.5	TNFRSF10A	ENSG00000104689	TNF receptor superfamily member 10a Source HGNC Symbol Acc HGNC 11904
E02	UPFH1132850	ENST00000347739.3	TNFRSF10B	ENSG00000120889	TNF receptor superfamily member 10b Source HGNC Symbol Acc HGNC 11905
E03	UPFH0059304	ENST00000517558.1	TNFRSF10C	ENSG00000173535	TNF receptor superfamily member 10c Source HGNC Symbol Acc HGNC 11906
E04	UPFH0363243	ENST00000312584.4	TNFRSF10D	ENSG00000173530	TNF receptor superfamily member 10d Source HGNC Symbol Acc HGNC 11907
E05	UPFH0510648	ENST00000639222.1	TNFRSF11A	ENSG00000141655	TNF receptor superfamily member 11a Source HGNC Symbol Acc HGNC 11908
E06	UPFH1132851	ENST00000297350.9	TNFRSF11B	ENSG00000164761	TNF receptor superfamily member 11b Source HGNC Symbol Acc HGNC 11909
E07	UPFH0365901	ENST00000341627.5	TNFRSF12A	ENSG00000006327	TNF receptor superfamily member 12A Source HGNC Symbol Acc HGNC 18152
E08	UPFH0515138	ENST00000584950.5	TNFRSF13B	ENSG00000240505	TNF receptor superfamily member 13B Source HGNC Symbol Acc HGNC 18153
E09	UPFH0383297	ENST00000291232.4	TNFRSF13C	ENSG00000159958	TNF receptor superfamily member 13C Source HGNC Symbol Acc HGNC 17755
E10	UPFH0422651	ENST00000426449.5	TNFRSF14	ENSG00000157873	TNF receptor superfamily member 14 Source HGNC Symbol Acc HGNC 11912
E11	UPFH0538926	ENST00000396495.3	TNFRSF17	ENSG00000048462	TNF receptor superfamily member 17 Source HGNC Symbol Acc HGNC 11913
E12	UPFH0526059	ENST00000379265.5	TNFRSF18	ENSG00000186891	TNF receptor superfamily member 18 Source HGNC Symbol Acc HGNC 11914
F01	UPFH0116571	ENST00000382263.3	TNFRSF19	ENSG00000127863	TNF receptor superfamily member 19 Source HGNC Symbol Acc HGNC 11915
F02	UPFH1132732	ENST00000162749.6	TNFRSF1A	ENSG00000067182	TNF receptor superfamily member 1A Source HGNC Symbol Acc HGNC 11916
F03	UPFH1132926	ENST00000536782.2	TNFRSF1B	ENSG00000028137	TNF receptor superfamily member 1B Source HGNC Symbol Acc HGNC 11917
F04	UPFH0235952	ENST00000296861.2	TNFRSF21	ENSG00000146072	TNF receptor superfamily member 21 Source HGNC Symbol Acc HGNC 13469
F05	UPFH0465524	ENST00000356876.7	TNFRSF25	ENSG00000215788	TNF receptor superfamily member 25 Source HGNC Symbol Acc HGNC 11910
F06	UPFH0433269	ENST00000497869.5	TNFRSF4	ENSG00000186827	TNF receptor superfamily member 4 Source HGNC Symbol Acc HGNC 11918
F07	UPFH0580684	ENST00000369996.3	TNFRSF6B	ENSG00000243509	TNF receptor superfamily member 6b Source HGNC Symbol Acc HGNC 11921
F08	UPFH0288248	ENST00000479933.2	TNFRSF8	ENSG00000120949	TNF receptor superfamily member 8 Source HGNC Symbol Acc HGNC 11923
F09	UPFH0607162	ENST00000615230.4	TNFRSF9	ENSG00000049249	TNF receptor superfamily member 9 Source HGNC Symbol Acc HGNC 11924
F10	UPFH1132733	ENST00000241261.7	TNFSF10	ENSG00000121858	TNF superfamily member 10 Source HGNC Symbol Acc HGNC 11925

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH1132852	ENST00000544862.5	TNFSF11	ENSG00000120659	TNF superfamily member 11 Source HGNC Symbol Acc HGNC 11926
F12	UPFH0522721	ENST00000322272.11	TNFSF12	ENSG00000239697	TNF superfamily member 12 Source HGNC Symbol Acc HGNC 11927
G01	UPFH1132853	ENST00000436057.5	TNFSF13	ENSG00000161955	TNF superfamily member 13 Source HGNC Symbol Acc HGNC 11928
G02	UPFH0487377	ENST00000542136.1	TNFSF13B	ENSG00000102524	TNF superfamily member 13b Source HGNC Symbol Acc HGNC 11929
G03	UPFH1132854	ENST00000599359.1	TNFSF14	ENSG00000125735	TNF superfamily member 14 Source HGNC Symbol Acc HGNC 11930
G04	UPFH0401828	ENST00000374044.1	TNFSF15	ENSG00000181634	TNF superfamily member 15 Source HGNC Symbol Acc HGNC 11931
G05	UPFH0119549	ENST00000404377.3	TNFSF18	ENSG00000120337	TNF superfamily member 18 Source HGNC Symbol Acc HGNC 11932
G06	UPFH0265690	ENST00000281834.4	TNFSF4	ENSG00000117586	TNF superfamily member 4 Source HGNC Symbol Acc HGNC 11934
G07	UPFH0562560	ENST00000223795.2	TNFSF8	ENSG00000106952	TNF superfamily member 8 Source HGNC Symbol Acc HGNC 11938
G08	UPFH0084839	ENST00000245817.5	TNFSF9	ENSG00000125657	TNF superfamily member 9 Source HGNC Symbol Acc HGNC 11939
G09	UPFH1132738	ENST00000345057.9	TRADD	ENSG00000102871	TNFRSF1A associated via death domain Source HGNC Symbol Acc HGNC 12030
G10	UPFH0179182	ENST00000540010.1	TRAF1	ENSG00000056558	TNF receptor associated factor 1 Source HGNC Symbol Acc HGNC 12031
G11	UPFH1132855	ENST00000247668.7	TRAF2	ENSG00000127191	TNF receptor associated factor 2 Source HGNC Symbol Acc HGNC 12032
G12	UPFH0301511	ENST00000560371.5	TRAF3	ENSG00000131323	TNF receptor associated factor 3 Source HGNC Symbol Acc HGNC 12033
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.