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

Human Angiogenic Growth Factors

Cat. no. 249955 UPHS-072ZR

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	AGGF1	AMOT	ANG	ANGPT1	ANGPT2	ANGPTL1	ADGRB1	BMP2	BTG1	CCL15	CCL2	CD55
B	CD59	CHGA	COL18A1	COL4A3	CSF3	CXCL10	CXCL11	CXCL12	CXCL13	CXCL14	CXCL2	CXCL3
C	CXCL5	CXCL6	CXCL9	EDIL3	EREG	FGF1	FGF13	FGF2	FGFBP1	VEGFD	FN1	FOXO4
D	FST	GRN	GRP	HGF	IFNA1	IFNB1	IFNG	IL10	IL12A	IL12B	IL17F	IL6
E	CXCL8	KITLG	KLK3	LEP	MDK	NPPB	NPR1	PDGFB	PDGFD	PF4	PGF	PLG
F	PPBP	PRL	PROK1	PTN	RHOB	RNH1	RUNX1	SERPINC1	SERPINE1	SERPINF1	SPINK5	STAB1
G	TGFA	TGFB1	THBS1	TIE1	TIMP1	TIMP2	TIMP3	TNF	TNNI2	TNNI3	TYMP	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	UPFH0297669	ENST00000502408.1	AGGF1	ENSG00000164252	angiogenic factor with G-patch and FHA domains 1 Source HGNC Symbol Acc HGNC 24684
A02	UPFH0558065	ENST00000371958.1	AMOT	ENSG00000126016	angiomotin Source HGNC Symbol Acc HGNC 17810
A03	UPFH0091321	ENST00000336811.10	ANG	ENSG00000214274	angiogenin Source HGNC Symbol Acc HGNC 483
A04	UPFH1132231	ENST00000517746.6	ANGPT1	ENSG00000154188	angiopoietin 1 Source HGNC Symbol Acc HGNC 484
A05	UPFH0272158	ENST00000325203.9	ANGPT2	ENSG00000091879	angiopoietin 2 Source HGNC Symbol Acc HGNC 485
A06	UPFH0091981	ENST00000367629.1	ANGPTL1	ENSG00000116194	angiopoietin like 1 Source HGNC Symbol Acc HGNC 489
A07	UPFH0051538	ENST00000323289.6	ADGRB1	ENSG00000181790	adhesion G protein-coupled receptor B1 Source HGNC Symbol Acc HGNC 943
A08	UPFH1132780	ENST00000378827.5	BMP2	ENSG00000125845	bone morphogenetic protein 2 Source HGNC Symbol Acc HGNC 1069
A09	UPFH0449279	ENST00000552315.1	BTG1	ENSG00000133639	BTG anti-proliferation factor 1 Source HGNC Symbol Acc HGNC 1130
A10	UPFH1132287	ENST00000617897.2	CCL15	ENSG00000275718	C-C motif chemokine ligand 15 Source HGNC Symbol Acc HGNC 10613
A11	UPFH1132783	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A12	UPFH0517372	ENST00000644836.1	CD55	ENSG00000196352	CD55 molecule (Cromer blood group) Source HGNC Symbol Acc HGNC 2665
B01	UPFH0167403	ENST00000426650.7	CD59	ENSG00000085063	CD59 molecule (CD59 blood group) Source HGNC Symbol Acc HGNC 1689
B02	UPFH0519534	ENST00000334654.4	CHGA	ENSG00000100604	chromogranin A Source HGNC Symbol Acc HGNC 1929
B03	UPFH1132325	ENST00000359759.8	COL18A1	ENSG00000182871	collagen type XVIII alpha 1 chain Source HGNC Symbol Acc HGNC 2195
B04	UPFH0194470	ENST00000487633.1	COL4A3	ENSG00000169031	collagen type IV alpha 3 chain Source HGNC Symbol Acc HGNC 2204
B05	UPFH1132794	ENST00000225474.6	CSF3	ENSG00000108342	colony stimulating factor 3 Source HGNC Symbol Acc HGNC 2438
B06	UPFH0196315	ENST00000306602.3	CXCL10	ENSG00000169245	C-X-C motif chemokine ligand 10 Source HGNC Symbol Acc HGNC 10637
B07	UPFH0421123	ENST00000306621.7	CXCL11	ENSG00000169248	C-X-C motif chemokine ligand 11 Source HGNC Symbol Acc HGNC 10638
B08	UPFH0092551	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
B09	UPFH1132796	ENST00000286758.4	CXCL13	ENSG00000156234	C-X-C motif chemokine ligand 13 Source HGNC Symbol Acc HGNC 10639
B10	UPFH0265114	ENST00000512158.5	CXCL14	ENSG00000145824	C-X-C motif chemokine ligand 14 Source HGNC Symbol Acc HGNC 10640
B11	UPFH1132349	ENST00000508487.3	CXCL2	ENSG00000081041	C-X-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 4603
B12	UPFH1132889	ENST00000296026.4	CXCL3	ENSG00000163734	C-X-C motif chemokine ligand 3 Source HGNC Symbol Acc HGNC 4604
C01	UPFH1132798	ENST00000296027.5	CXCL5	ENSG00000163735	C-X-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10642
C02	UPFH1132350	ENST00000226317.10	CXCL6	ENSG00000124875	C-X-C motif chemokine ligand 6 Source HGNC Symbol Acc HGNC 10643
C03	UPFH0222764	ENST00000264888.5	CXCL9	ENSG00000138755	C-X-C motif chemokine ligand 9 Source HGNC Symbol Acc HGNC 7098
C04	UPFH0553036	ENST00000296591.10	EDIL3	ENSG00000164176	EGF like repeats and discoidin domains 3 Source HGNC Symbol Acc HGNC 3173
C05	UPFH0417873	ENST00000507603.1	EREG	ENSG00000124882	epiregulin Source HGNC Symbol Acc HGNC 3443
C06	UPFH0087975	ENST00000612258.4	FGF1	ENSG00000113578	fibroblast growth factor 1 Source HGNC Symbol Acc HGNC 3665
C07	UPFH0248413	ENST00000305414.8	FGF13	ENSG00000129682	fibroblast growth factor 13 Source HGNC Symbol Acc HGNC 3670
C08	UPFH0613093	ENST00000264498.7	FGF2	ENSG00000138685	fibroblast growth factor 2 Source HGNC Symbol Acc HGNC 3676
C09	UPFH0576081	ENST00000382333.1	FGFBP1	ENSG00000137440	fibroblast growth factor binding protein 1 Source HGNC Symbol Acc HGNC 19695
C10	UPFH1132399	ENST00000297904.4	VEGFD	ENSG00000165197	vascular endothelial growth factor D Source HGNC Symbol Acc HGNC 3708
		ENST00000336		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0605066	916.8	FN1	115414	fibronectin 1 Source HGNC Symbol Acc HGNC 3778
C12	UPFH0316557	ENST00000374259.7	FOXO4	ENSG00000184481	forkhead box O4 Source HGNC Symbol Acc HGNC 7139
D01	UPFH0474678	ENST00000396947.7	FST	ENSG00000134363	follistatin Source HGNC Symbol Acc HGNC 3971
D02	UPFH0137813	ENST00000589265.5	GRN	ENSG00000030582	granulin precursor Source HGNC Symbol Acc HGNC 4601
D03	UPFH0100638	ENST00000529320.2	GRP	ENSG00000134443	gastrin releasing peptide Source HGNC Symbol Acc HGNC 4605
D04	UPFH1132871	ENST00000643024.1	HGF	ENSG00000019991	hepatocyte growth factor Source HGNC Symbol Acc HGNC 4893
D05	UPFH0577805	ENST00000276927.2	IFNA1	ENSG00000197919	interferon alpha 1 Source HGNC Symbol Acc HGNC 5417
D06	UPFH1132806	ENST00000380232.4	IFNB1	ENSG00000171855	interferon beta 1 Source HGNC Symbol Acc HGNC 5434
D07	UPFH1132473	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
D08	UPFH0028177	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D09	UPFH1132478	ENST00000466512.1	IL12A	ENSG00000168811	interleukin 12A Source HGNC Symbol Acc HGNC 5969
D10	UPFH0131869	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
D11	UPFH1132480	ENST00000336123.4	IL17F	ENSG00000112116	interleukin 17F Source HGNC Symbol Acc HGNC 16404
D12	UPFH1172910	ENST00000258743.10	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
E01	UPFH0120553	ENST00000307407.8	CXCL8	ENSG00000169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
E02	UPFH0242107	ENST00000644744.1	KITLG	ENSG00000049130	KIT ligand Source HGNC Symbol Acc HGNC 6343
E03	UPFH1132511	ENST00000617027.4	KLK3	ENSG00000142515	kallikrein related peptidase 3 Source HGNC Symbol Acc HGNC 6364
E04	UPFH1132519	ENST00000308868.5	LEP	ENSG00000174697	leptin Source HGNC Symbol Acc HGNC 6553
E05	UPFH0255721	ENST00000395566.8	MDK	ENSG00000110492	midkine Source HGNC Symbol Acc HGNC 6972
E06	UPFH1132597	ENST00000376468.4	NPPB	ENSG00000120937	natriuretic peptide B Source HGNC Symbol Acc HGNC 7940
E07	UPFH1132933	ENST00000368680.4	NPR1	ENSG00000169418	natriuretic peptide receptor 1 Source HGNC Symbol Acc HGNC 7943
E08	UPFH0524988	ENST00000381551.8	PDGFB	ENSG00000100311	platelet derived growth factor subunit B Source HGNC Symbol Acc HGNC 8800
E09	UPFH0343072	ENST00000393158.7	PDGFD	ENSG00000170962	platelet derived growth factor D Source HGNC Symbol Acc HGNC 30620
E10	UPFH0614943	ENST00000296029.3	PF4	ENSG00000163737	platelet factor 4 Source HGNC Symbol Acc HGNC 8861
E11	UPFH1132616	ENST00000555567.6	PGF	ENSG00000119630	placental growth factor Source HGNC Symbol Acc HGNC 8893
E12	UPFH0091404	ENST00000308192.13	PLG	ENSG00000122194	plasminogen Source HGNC Symbol Acc HGNC 9071
F01	UPFH1132833	ENST00000296028.4	PPBP	ENSG00000163736	pro-platelet basic protein Source HGNC Symbol Acc HGNC 9240
F02	UPFH0580799	ENST00000615510.4	PRL	ENSG00000172179	prolactin Source HGNC Symbol Acc HGNC 9445
F03	UPFH0273973	ENST00000271331.4	PROK1	ENSG00000143125	prokineticin 1 Source HGNC Symbol Acc HGNC 18454
F04	UPFH0287140	ENST00000348225.6	PTN	ENSG00000105894	pleiotrophin Source HGNC Symbol Acc HGNC 9630
F05	UPFH0026449	ENST00000272233.5	RHOB	ENSG00000143878	ras homolog family member B Source HGNC Symbol Acc HGNC 668
F06	UPFH0232026	ENST00000524464.5	RNH1	ENSG00000023191	ribonuclease/angiogenin inhibitor 1 Source HGNC Symbol Acc HGNC 10074
F07	UPFH0023287	ENST00000437180.5	RUNX1	ENSG00000159216	runt related transcription factor 1 Source HGNC Symbol Acc HGNC 10471
F08	UPFH0531559	ENST00000367698.3	SERPINC1	ENSG00000117601	serpin family C member 1 Source HGNC Symbol Acc HGNC 775
F09	UPFH0384736	ENST00000223095.4	SERPINE1	ENSG00000106366	serpin family E member 1 Source HGNC Symbol Acc HGNC 8583
F10	UPFH1172913	ENST00000254722.9	SERPINF1	ENSG00000132386	serpin family F member 1 Source HGNC Symbol Acc HGNC 8824

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0177587	ENST00000256084.7	SPINK5	ENSG00000133710	serine peptidase inhibitor, Kazal type 5 Source HGNC Symbol Acc HGNC 15464
F12	UPFH0185887	ENST00000481607.1	STAB1	ENSG00000010327	stabilin 1 Source HGNC Symbol Acc HGNC 18628
G01	UPFH1132717	ENST00000295400.11	TGFA	ENSG00000163235	transforming growth factor alpha Source HGNC Symbol Acc HGNC 11765
G02	UPFH0193430	ENST00000221930.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G03	UPFH1132847	ENST00000260356.5	THBS1	ENSG00000137801	thrombospondin 1 Source HGNC Symbol Acc HGNC 11785
G04	UPFH0392212	ENST00000538015.1	TIE1	ENSG00000066056	tyrosine kinase with immunoglobulin like and EGF like domains 1 Source HGNC Symbol Acc HGNC 11809
G05	UPFH1132725	ENST00000456754.6	TIMP1	ENSG00000102265	TIMP metallopeptidase inhibitor 1 Source HGNC Symbol Acc HGNC 11820
G06	UPFH0276014	ENST00000262768.11	TIMP2	ENSG00000035862	TIMP metallopeptidase inhibitor 2 Source HGNC Symbol Acc HGNC 11821
G07	UPFH0118826	ENST00000266085.6	TIMP3	ENSG00000100234	TIMP metallopeptidase inhibitor 3 Source HGNC Symbol Acc HGNC 11822
G08	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G09	UPFH0048380	ENST00000252898.11	TNNI2	ENSG00000130598	troponin I2, fast skeletal type Source HGNC Symbol Acc HGNC 11946
G10	UPFH0402346	ENST00000344887.9	TNNI3	ENSG00000129991	troponin I3, cardiac type Source NCBI gene Acc 7137
G11	UPFH1132746	ENST00000252029.8	TYMP	ENSG00000025708	thymidine phosphorylase Source HGNC Symbol Acc HGNC 3148
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 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.

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