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

Human Hypertension

Cat. no. 249955 UPHS-037ZR

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	ACE	ACE2	ACTA2	ADM	ADRA1B	ADRA1D	ADRB1	AGT	AGTR1	AGTR2	ALOX5	ARG2
B	ATP2C1	ATP6AP2	AVP	AVPR1A	AVPR1B	BDKRB1	BDKRB2	BMPR2	CACNA1C	CALCA	CAV1	CHRNA1
C	CHRNB1	CLIC1	CLIC4	CLIC5	CNGA1	CNGA2	CNGA3	CNGA4	CNGB1	CNGB3	CPS1	DRD3
D	DRD5	ECE1	EDN1	EDN2	EDNRA	EDNRB	EPHX2	GCH1	GCHFR	GUCY1A1	GUCY1B1	HIF1A
E	ITPR1	ITPR2	KCNJ8	KCNMA1	KNG1	MYLK	MYLK2	MYLK3	NOS3	NOSIP	NOSTRIN	NPPB
F	NPPC	NPR1	NPY1R	P2RX4	PDE3A	PDE3B	PDE5A	PLCG1	PLCG2	PRKG1	PRKG2	PTGIR
G	PTGS1	PTGS2	REN	S1PR1	SCNN1A	SCNN1B	SCNN1G	SLC7A1	SPHK1	SPHK2	UTS2	UTS2R
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	UPFH1132210	ENST00000428043.5	ACE	ENSG00000159640	angiotensin I converting enzyme Source HGNC Symbol Acc HGNC 2707
A02	UPFH0371164	ENST00000427411.1	ACE2	ENSG00000130234	angiotensin I converting enzyme 2 Source HGNC Symbol Acc HGNC 13557
A03	UPFH0537484	ENST00000224784.10	ACTA2	ENSG00000107796	actin, alpha 2, smooth muscle, aorta Source HGNC Symbol Acc HGNC 130
A04	UPFH1172899	ENST00000528655.5	ADM	ENSG00000148926	adrenomedullin Source HGNC Symbol Acc HGNC 259
A05	UPFH0458556	ENST00000306675.5	ADRA1B	ENSG00000170214	adrenoceptor alpha 1B Source HGNC Symbol Acc HGNC 278
A06	UPFH0065785	ENST00000379453.5	ADRA1D	ENSG00000171873	adrenoceptor alpha 1D Source HGNC Symbol Acc HGNC 280
A07	UPFH0612978	ENST00000369295.3	ADRB1	ENSG00000043591	adrenoceptor beta 1 Source HGNC Symbol Acc HGNC 285
A08	UPFH1132773	ENST00000366667.5	AGT	ENSG00000135744	angiotensinogen Source HGNC Symbol Acc HGNC 333
A09	UPFH1132221	ENST00000418473.6	AGTR1	ENSG00000144891	angiotensin II receptor type 1 Source HGNC Symbol Acc HGNC 336
A10	UPFH0421549	ENST00000371906.5	AGTR2	ENSG00000180772	angiotensin II receptor type 2 Source HGNC Symbol Acc HGNC 338
A11	UPFH1132227	ENST00000612635.4	ALOX5	ENSG00000012779	arachidonate 5-lipoxygenase Source HGNC Symbol Acc HGNC 435
A12	UPFH0049034	ENST00000557120.5	ARG2	ENSG00000081181	arginase 2 Source HGNC Symbol Acc HGNC 664
B01	UPFH0518079	ENST00000504948.5	ATP2C1	ENSG00000017260	ATPase secretory pathway Ca2+ transporting 1 Source HGNC Symbol Acc HGNC 13211
B02	UPFH0192249	ENST00000637327.1	ATP6AP2	ENSG00000182220	ATPase H+ transporting accessory protein 2 Source HGNC Symbol Acc HGNC 18305
B03	UPFH0615974	ENST00000380293.3	AVP	ENSG00000101200	arginine vasopressin Source HGNC Symbol Acc HGNC 894
B04	UPFH0337699	ENST00000550940.1	AVPR1A	ENSG00000166148	arginine vasopressin receptor 1A Source HGNC Symbol Acc HGNC 895
B05	UPFH0290173	ENST00000367126.5	AVPR1B	ENSG00000198049	arginine vasopressin receptor 1B Source HGNC Symbol Acc HGNC 896
B06	UPFH0049435	ENST00000216629.11	BDKRB1	ENSG00000100739	bradykinin receptor B1 Source HGNC Symbol Acc HGNC 1029
B07	UPFH0444563	ENST00000554311.1	BDKRB2	ENSG00000168398	bradykinin receptor B2 Source HGNC Symbol Acc HGNC 1030
B08	UPFH0383804	ENST00000374580.8	BMPR2	ENSG00000204217	bone morphogenetic protein receptor type 2 Source HGNC Symbol Acc HGNC 1078
B09	UPFH0572565	ENST00000402845.7	CACNA1C	ENSG00000151067	calcium voltage-gated channel subunit alpha1 C Source HGNC Symbol Acc HGNC 1390
B10	UPFH0317713	ENST00000331587.8	CALCA	ENSG00000110680	calcitonin related polypeptide alpha Source HGNC Symbol Acc HGNC 1437
B11	UPFH0192343	ENST00000393468.1	CAV1	ENSG00000105974	caveolin 1 Source HGNC Symbol Acc HGNC 1527
B12	UPFH0496563	ENST00000348749.9	CHRNA1	ENSG00000138435	cholinergic receptor nicotinic alpha 1 subunit Source HGNC Symbol Acc HGNC 1955
C01	UPFH0164072	ENST00000570557.5	CHRNB1	ENSG00000170175	cholinergic receptor nicotinic beta 1 subunit Source HGNC Symbol Acc HGNC 1961
C02	UPFH0241479	ENST00000375779.6	CLIC1	ENSG00000213719	chloride intracellular channel 1 Source HGNC Symbol Acc HGNC 2062
C03	UPFH0083850	ENST00000488683.1	CLIC4	ENSG00000169504	chloride intracellular channel 4 Source HGNC Symbol Acc HGNC 13518
C04	UPFH0275659	ENST00000644324.1	CLIC5	ENSG00000112782	chloride intracellular channel 5 Source HGNC Symbol Acc HGNC 13517
C05	UPFH0461091	ENST00000506118.1	CNGA1	ENSG00000198515	cyclic nucleotide gated channel alpha 1 Source HGNC Symbol Acc HGNC 2148
C06	UPFH0149618	ENST00000329903.4	CNGA2	ENSG00000183862	cyclic nucleotide gated channel alpha 2 Source HGNC Symbol Acc HGNC 2149
C07	UPFH0556363	ENST00000393504.5	CNGA3	ENSG00000144191	cyclic nucleotide gated channel alpha 3 Source HGNC Symbol Acc HGNC 2150
C08	UPFH0073943	ENST00000533426.5	CNGA4	ENSG00000132259	cyclic nucleotide gated channel alpha 4 Source HGNC Symbol Acc HGNC 2152
C09	UPFH0261841	ENST00000567568.1	CNGB1	ENSG00000070729	cyclic nucleotide gated channel beta 1 Source HGNC Symbol Acc HGNC 2151
C10	UPFH0035538	ENST00000320005.5	CNGB3	ENSG00000170289	cyclic nucleotide gated channel beta 3 Source HGNC Symbol Acc HGNC 2153
		ENST00000430		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1123912	249.6	CPS1	021826	carbamoyl-phosphate synthase 1 Source HGNC Symbol Acc HGNC 2323
C12	UPFH0131168	ENST00000295881.9	DRD3	ENSG00000151577	dopamine receptor D3 Source HGNC Symbol Acc HGNC 3024
D01	UPFH0394985	ENST00000304374.3	DRD5	ENSG00000169676	dopamine receptor D5 Source HGNC Symbol Acc HGNC 3026
D02	UPFH0264786	ENST00000436918.6	ECE1	ENSG00000117298	endothelin converting enzyme 1 Source HGNC Symbol Acc HGNC 3146
D03	UPFH1132801	ENST00000379375.6	EDN1	ENSG00000078401	endothelin 1 Source HGNC Symbol Acc HGNC 3176
D04	UPFH1132378	ENST00000372587.5	EDN2	ENSG00000127129	endothelin 2 Source HGNC Symbol Acc HGNC 3177
D05	UPFH1132379	ENST00000511804.5	EDNRA	ENSG00000151617	endothelin receptor type A Source HGNC Symbol Acc HGNC 3179
D06	UPFH0050752	ENST00000377211.8	EDNRB	ENSG00000136160	endothelin receptor type B Source HGNC Symbol Acc HGNC 3180
D07	UPFH0039157	ENST00000521400.5	EPHX2	ENSG00000120915	epoxide hydrolase 2 Source HGNC Symbol Acc HGNC 3402
D08	UPFH0514217	ENST00000543643.6	GCH1	ENSG00000131979	GTP cyclohydrolase 1 Source HGNC Symbol Acc HGNC 4193
D09	UPFH0244200	ENST00000260447.6	GCHFR	ENSG00000137880	GTP cyclohydrolase I feedback regulator Source HGNC Symbol Acc HGNC 4194
D10	UPFH0020356	ENST00000512983.5	GUCY1A1	ENSG00000164116	guanylate cyclase 1 soluble subunit alpha 1 Source HGNC Symbol Acc HGNC 4685
D11	UPFH0443108	ENST00000513437.1	GUCY1B1	ENSG00000061918	guanylate cyclase 1 soluble subunit beta 1 Source HGNC Symbol Acc HGNC 4687
D12	UPFH1132447	ENST00000394997.5	HIF1A	ENSG00000100644	hypoxia inducible factor 1 subunit alpha Source HGNC Symbol Acc HGNC 4910
E01	UPFH0126956	ENST00000649430.1	ITPR1	ENSG00000150995	inositol 1,4,5-trisphosphate receptor type 1 Source HGNC Symbol Acc HGNC 6180
E02	UPFH0370804	ENST00000538984.1	ITPR2	ENSG00000123104	inositol 1,4,5-trisphosphate receptor type 2 Source HGNC Symbol Acc HGNC 6181
E03	UPFH0174543	ENST00000240662.3	KCNJ8	ENSG00000121361	potassium voltage-gated channel subfamily J member 8 Source HGNC Symbol Acc HGNC 6269
E04	UPFH0028258	ENST00000639090.1	KCNMA1	ENSG00000156113	potassium calcium-activated channel subfamily M alpha 1 Source HGNC Symbol Acc HGNC 6284
E05	UPFH0103700	ENST00000645909.1	KNG1	ENSG00000113889	kininogen 1 Source HGNC Symbol Acc HGNC 6383
E06	UPFH0114137	ENST00000360772.7	MYLK	ENSG00000065534	myosin light chain kinase Source HGNC Symbol Acc HGNC 7590
E07	UPFH0595413	ENST00000375994.6	MYLK2	ENSG00000101306	myosin light chain kinase 2 Source HGNC Symbol Acc HGNC 16243
E08	UPFH0091755	ENST00000562104.1	MYLK3	ENSG00000140795	myosin light chain kinase 3 Source HGNC Symbol Acc HGNC 29826
E09	UPFH1132897	ENST00000297494.8	NOS3	ENSG00000164867	nitric oxide synthase 3 Source HGNC Symbol Acc HGNC 7876
E10	UPFH0276602	ENST00000598296.5	NOSIP	ENSG00000142546	nitric oxide synthase interacting protein Source HGNC Symbol Acc HGNC 17946
E11	UPFH0191861	ENST00000447264.2	NOSTRIN	ENSG00000163072	nitric oxide synthase trafficking Source HGNC Symbol Acc HGNC 20203
E12	UPFH1132597	ENST00000376468.4	NPPB	ENSG00000120937	natriuretic peptide B Source HGNC Symbol Acc HGNC 7940
F01	UPFH0487911	ENST00000409852.2	NPPC	ENSG00000163273	natriuretic peptide C Source HGNC Symbol Acc HGNC 7941
F02	UPFH1132933	ENST00000368680.4	NPR1	ENSG00000169418	natriuretic peptide receptor 1 Source HGNC Symbol Acc HGNC 7943
F03	UPFH0023593	ENST00000504391.5	NPY1R	ENSG00000164128	neuropeptide Y receptor Y1 Source HGNC Symbol Acc HGNC 7956
F04	UPFH0410154	ENST00000543430.5	P2RX4	ENSG00000135124	purinergic receptor P2X 4 Source HGNC Symbol Acc HGNC 8535
F05	UPFH0465126	ENST00000544307.1	PDE3A	ENSG00000172572	phosphodiesterase 3A Source HGNC Symbol Acc HGNC 8778
F06	UPFH0371179	ENST00000525439.1	PDE3B	ENSG00000152270	phosphodiesterase 3B Source HGNC Symbol Acc HGNC 8779
F07	UPFH0394532	ENST00000513594.5	PDE5A	ENSG00000138735	phosphodiesterase 5A Source HGNC Symbol Acc HGNC 8784
F08	UPFH0088354	ENST00000617873.4	PLCG1	ENSG00000124181	phospholipase C gamma 1 Source HGNC Symbol Acc HGNC 9065
F09	UPFH0213401	ENST00000359376.7	PLCG2	ENSG00000197943	phospholipase C gamma 2 Source HGNC Symbol Acc HGNC 9066
F10	UPFH0398196	ENST00000373980.10	PRKG1	ENSG00000185532	protein kinase cGMP-dependent 1 Source HGNC Symbol Acc HGNC 9414

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0078191	ENST00000264399.5	PRKG2	ENSG00000138669	protein kinase cGMP-dependent 2 Source HGNC Symbol Acc HGNC 9416
F12	UPFH0113810	ENST00000594275.1	PTGIR	ENSG00000160013	prostaglandin I2 receptor Source HGNC Symbol Acc HGNC 9602
G01	UPFH0450481	ENST00000619306.5	PTGS1	ENSG00000095303	prostaglandin-endoperoxide synthase 1 Source HGNC Symbol Acc HGNC 9604
G02	UPFH1132642	ENST00000367468.10	PTGS2	ENSG00000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
G03	UPFH0491031	ENST00000638118.1	REN	ENSG00000143839	renin Source HGNC Symbol Acc HGNC 9958
G04	UPFH0376099	ENST00000305352.6	S1PR1	ENSG00000170989	sphingosine-1-phosphate receptor 1 Source HGNC Symbol Acc HGNC 3165
G05	UPFH0099672	ENST00000540037.5	SCNN1A	ENSG00000111319	sodium channel epithelial 1 alpha subunit Source HGNC Symbol Acc HGNC 10599
G06	UPFH0355672	ENST00000568923.5	SCNN1B	ENSG00000168447	sodium channel epithelial 1 beta subunit Source HGNC Symbol Acc HGNC 10600
G07	UPFH0423313	ENST00000300061.3	SCNN1G	ENSG00000166828	sodium channel epithelial 1 gamma subunit Source HGNC Symbol Acc HGNC 10602
G08	UPFH0536042	ENST00000450494.1	SLC7A1	ENSG00000139514	solute carrier family 7 member 1 Source HGNC Symbol Acc HGNC 11057
G09	UPFH0560569	ENST00000590959.5	SPHK1	ENSG00000176170	sphingosine kinase 1 Source NCBI gene Acc 8877
G10	UPFH0099327	ENST00000597434.5	SPHK2	ENSG00000063176	sphingosine kinase 2 Source HGNC Symbol Acc HGNC 18859
G11	UPFH0449260	ENST00000377516.6	UTS2	ENSG00000049247	urotensin 2 Source HGNC Symbol Acc HGNC 12636
G12	UPFH0566767	ENST00000313135.3	UTS2R	ENSG00000181408	urotensin 2 receptor Source HGNC Symbol Acc HGNC 4468
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.