QuantiNova® LNA® Probe PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Human Neuronal Ion Channels

Cat. no. 249955 UPHS-036ZA

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 (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	ASIC2	ASIC1	ASIC3	BEST1	CACNA1A	CACNA1B	CACNA1C	CACNA1D	CACNA1G	CACNA1I	CACNB1	CACNB2
B	CACNB3	CACNG2	CACNG4	CLCN2	CLCN3	CLCN7	HCN1	HCN2	KCNA1	KCNA2	KCNA5	KCNA6
C	KCNAB1	KCNAB2	KCNAB3	KCNB1	KCNB2	KCNC1	KCNC2	KCND2	KCND3	KCNH1	KCNH2	KCNH3
D	KCNH6	KCNH7	KCNJ1	KCNJ11	KCNJ12	KCNJ13	KCNJ14	KCNJ15	KCNJ16	KCNJ2	KCNJ3	KCNJ4
E	KCNJ5	KCNJ6	KCNJ9	KCNK1	KCNMA1	KCNMB4	KCNN1	KCNN2	KCNN3	KCNQ1	KCNQ2	KCNQ3
F	KCNS1	RYR3	SCN10A	SCN11A	SCN1A	SCN1B	SCN2A	SCN2B	SCN3A	SCN8A	SCN9A	SLC12A5
G	TRPA1	TRPC1	TRPC3	TRPC6	TRPM1	TRPM2	TRPM6	TRPM8	TRPV1	TRPV2	TRPV3	TRPV4
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	UPFH0435855	ENST00000448983.1	ASIC2	ENSG00000108684	acid sensing ion channel subunit 2 Source HGNC Symbol Acc HGNC 99
A02	UPFH0364130	ENST00000550558.5	ASIC1	ENSG00000110881	acid sensing ion channel subunit 1 Source HGNC Symbol Acc HGNC 100
A03	UPFH0603312	ENST00000377904.8	ASIC3	ENSG00000213199	acid sensing ion channel subunit 3 Source HGNC Symbol Acc HGNC 101
A04	UPFH0432662	ENST00000529265.5	BEST1	ENSG00000167995	bestrophin 1 Source HGNC Symbol Acc HGNC 12703
A05	UPFH0241768	ENST00000637432.1	CACNA1A	ENSG00000141837	calcium voltage-gated channel subunit alpha1 A Source HGNC Symbol Acc HGNC 1388
A06	UPFH0070324	ENST00000371372.6	CACNA1B	ENSG00000148408	calcium voltage-gated channel subunit alpha1 B Source HGNC Symbol Acc HGNC 1389
A07	UPFH0572565	ENST00000402845.7	CACNA1C	ENSG00000151067	calcium voltage-gated channel subunit alpha1 C Source HGNC Symbol Acc HGNC 1390
A08	UPFH0286238	ENST00000638120.1	CACNA1D	ENSG00000157388	calcium voltage-gated channel subunit alpha1 D Source HGNC Symbol Acc HGNC 1391
A09	UPFH0586734	ENST00000505165.5	CACNA1G	ENSG00000006283	calcium voltage-gated channel subunit alpha1 G Source HGNC Symbol Acc HGNC 1394
A10	UPFH0159108	ENST00000404898.5	CACNA1I	ENSG00000100346	calcium voltage-gated channel subunit alpha1 I Source HGNC Symbol Acc HGNC 1396
A11	UPFH0209385	ENST00000622445.4	CACNB1	ENSG00000067191	calcium voltage-gated channel auxiliary subunit beta 1 Source HGNC Symbol Acc HGNC 1401
A12	UPFH0196692	ENST00000617363.4	CACNB2	ENSG00000165995	calcium voltage-gated channel auxiliary subunit beta 2 Source HGNC Symbol Acc HGNC 1402
B01	UPFH0128236	ENST00000548874.5	CACNB3	ENSG00000167535	calcium voltage-gated channel auxiliary subunit beta 3 Source HGNC Symbol Acc HGNC 1403
B02	UPFH0485062	ENST00000300105.6	CACNG2	ENSG00000166862	calcium voltage-gated channel auxiliary subunit gamma 2 Source HGNC Symbol Acc HGNC 1406
B03	UPFH0540867	ENST00000262138.4	CACNG4	ENSG00000075461	calcium voltage-gated channel auxiliary subunit gamma 4 Source HGNC Symbol Acc HGNC 1408
B04	UPFH0289760	ENST00000485667.1	CLCN2	ENSG00000114859	chloride voltage-gated channel 2 Source HGNC Symbol Acc HGNC 2020
B05	UPFH0580841	ENST00000512813.5	CLCN3	ENSG00000109572	chloride voltage-gated channel 3 Source HGNC Symbol Acc HGNC 2021
B06	UPFH0582340	ENST00000382745.9	CLCN7	ENSG00000103249	chloride voltage-gated channel 7 Source HGNC Symbol Acc HGNC 2025
B07	UPFH0381777	ENST00000303230.6	HCN1	ENSG00000164588	hyperpolarization activated cyclic nucleotide gated potassium channel 1 Source HGNC Symbol Acc HGNC 4845
B08	UPFH0344141	ENST00000251287.3	HCN2	ENSG00000099822	hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2 Source HGNC Symbol Acc HGNC 4846
B09	UPFH0427723	ENST00000639680.1	KCNA1	ENSG00000111262	potassium voltage-gated channel subfamily A member 1 Source HGNC Symbol Acc HGNC 6218
B10	UPFH0249191	ENST00000640774.1	KCNA2	ENSG00000177301	potassium voltage-gated channel subfamily A member 2 Source HGNC Symbol Acc HGNC 6220
B11	UPFH0494049	ENST00000252321.4	KCNA5	ENSG00000130037	potassium voltage-gated channel subfamily A member 5 Source HGNC Symbol Acc HGNC 6224
B12	UPFH0581322	ENST00000280684.3	KCNA6	ENSG00000151079	potassium voltage-gated channel subfamily A member 6 Source HGNC Symbol Acc HGNC 6225
C01	UPFH0128928	ENST00000389634.5	KCNAB1	ENSG00000169282	potassium voltage-gated channel subfamily A member regulatory beta subunit 1 Source HGNC Symbol Acc HGNC 6228
C02	UPFH0353212	ENST00000378083.7	KCNAB2	ENSG00000069424	potassium voltage-gated channel subfamily A regulatory beta subunit 2 Source HGNC Symbol Acc HGNC 6229
C03	UPFH0230014	ENST00000576981.1	KCNAB3	ENSG00000170049	potassium voltage-gated channel subfamily A regulatory beta subunit 3 Source HGNC Symbol Acc HGNC 6230
C04	UPFH0322447	ENST00000635210.1	KCNB1	ENSG00000158445	potassium voltage-gated channel subfamily B member 1 Source HGNC Symbol Acc HGNC 6231
C05	UPFH0317132	ENST00000523207.2	KCNB2	ENSG00000182674	potassium voltage-gated channel subfamily B member 2 Source HGNC Symbol Acc HGNC 6232
C06	UPFH0078541	ENST00000265969.7	KCNC1	ENSG00000129159	potassium voltage-gated channel subfamily C member 1 Source HGNC Symbol Acc HGNC 6233
C07	UPFH0046553	ENST00000549446.5	KCNC2	ENSG00000166006	potassium voltage-gated channel subfamily C member 2 Source HGNC Symbol Acc HGNC 6234
C08	UPFH0219812	ENST00000425288.1	KCND2	ENSG00000184408	potassium voltage-gated channel subfamily D member 2 Source HGNC Symbol Acc HGNC 6238
C09	UPFH0594872	ENST00000315987.6	KCND3	ENSG00000171385	potassium voltage-gated channel subfamily D member 3 Source HGNC Symbol Acc HGNC 6239
C10	UPFH0094975	ENST00000640528.1	KCNH1	ENSG00000143473	potassium voltage-gated channel subfamily H member 1 Source HGNC Symbol Acc HGNC 6250
		ENST00000262		ENSG00000	potassium voltage-gated channel subfamily H member 2 Source HGNC Symbol

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0043727	186.9	KCNH2	055118	Acc HGNC 6251
C12	UPFH0361943	ENST00000550434.1	KCNH3	ENSG00000135519	potassium voltage-gated channel subfamily H member 3 Source HGNC Symbol Acc HGNC 6252
D01	UPFH0507773	ENST00000581784.5	KCNH6	ENSG00000173826	potassium voltage-gated channel subfamily H member 6 Source HGNC Symbol Acc HGNC 18862
D02	UPFH0608421	ENST00000621889.1	KCNH7	ENSG00000184611	potassium voltage-gated channel subfamily H member 7 Source HGNC Symbol Acc HGNC 18863
D03	UPFH0028572	ENST00000392665.6	KCNJ1	ENSG00000151704	potassium voltage-gated channel subfamily J member 1 Source HGNC Symbol Acc HGNC 6255
D04	UPFH0328148	ENST00000339994.4	KCNJ11	ENSG00000187486	potassium voltage-gated channel subfamily J member 11 Source HGNC Symbol Acc HGNC 6257
D05	UPFH0213458	ENST00000583088.6	KCNJ12	ENSG00000184185	potassium voltage-gated channel subfamily J member 12 Source HGNC Symbol Acc HGNC 6258
D06	UPFH0237756	ENST00000444142.1	KCNJ13	ENSG00000115474	potassium voltage-gated channel subfamily J member 13 Source HGNC Symbol Acc HGNC 6259
D07	UPFH0049615	ENST00000391884.2	KCNJ14	ENSG00000182324	potassium voltage-gated channel subfamily J member 14 Source HGNC Symbol Acc HGNC 6260
D08	UPFH0399553	ENST00000547341.5	KCNJ15	ENSG00000157551	potassium voltage-gated channel subfamily J member 15 Source HGNC Symbol Acc HGNC 6261
D09	UPFH0116750	ENST00000591891.5	KCNJ16	ENSG00000153822	potassium voltage-gated channel subfamily J member 16 Source HGNC Symbol Acc HGNC 6262
D10	UPFH0603609	ENST00000243457.3	KCNJ2	ENSG00000123700	potassium voltage-gated channel subfamily J member 2 Source HGNC Symbol Acc HGNC 6263
D11	UPFH0269855	ENST00000493505.1	KCNJ3	ENSG00000162989	potassium voltage-gated channel subfamily J member 3 Source HGNC Symbol Acc HGNC 6264
D12	UPFH0359790	ENST00000303592.3	KCNJ4	ENSG00000168135	potassium voltage-gated channel subfamily J member 4 Source HGNC Symbol Acc HGNC 6265
E01	UPFH0430297	ENST00000529694.6	KCNJ5	ENSG00000120457	potassium voltage-gated channel subfamily J member 5 Source HGNC Symbol Acc HGNC 6266
E02	UPFH0591146	ENST00000645093.1	KCNJ6	ENSG00000157542	potassium voltage-gated channel subfamily J member 6 Source HGNC Symbol Acc HGNC 6267
E03	UPFH1125576	ENST00000368088.4	KCNJ9	ENSG00000162728	potassium voltage-gated channel subfamily J member 9 Source HGNC Symbol Acc HGNC 6270
E04	UPFH0391445	ENST00000366620.5	KCNK1	ENSG00000135750	potassium two pore domain channel subfamily K member 1 Source HGNC Symbol Acc HGNC 6272
E05	UPFH0028258	ENST00000639090.1	KCNMA1	ENSG00000156113	potassium calcium-activated channel subfamily M alpha 1 Source HGNC Symbol Acc HGNC 6284
E06	UPFH0064676	ENST00000258111.5	KCNMB4	ENSG00000135643	potassium calcium-activated channel subfamily M regulatory beta subunit 4 Source HGNC Symbol Acc HGNC 6289
E07	UPFH0518516	ENST00000615435.1	KCNN1	ENSG00000105642	potassium calcium-activated channel subfamily N member 1 Source HGNC Symbol Acc HGNC 6290
E08	UPFH0274163	ENST00000507750.5	KCNN2	ENSG00000080709	potassium calcium-activated channel subfamily N member 2 Source HGNC Symbol Acc HGNC 6291
E09	UPFH0547726	ENST00000361147.8	KCNN3	ENSG00000143603	potassium calcium-activated channel subfamily N member 3 Source HGNC Symbol Acc HGNC 6292
E10	UPFH0129898	ENST00000155840.10	KCNQ1	ENSG00000053918	potassium voltage-gated channel subfamily Q member 1 Source HGNC Symbol Acc HGNC 6294
E11	UPFH0100935	ENST00000629676.2	KCNQ2	ENSG00000075043	potassium voltage-gated channel subfamily Q member 2 Source HGNC Symbol Acc HGNC 6296
E12	UPFH0244248	ENST00000388996.10	KCNQ3	ENSG00000184156	potassium voltage-gated channel subfamily Q member 3 Source HGNC Symbol Acc HGNC 6297
F01	UPFH0524299	ENST00000306117.5	KCNS1	ENSG00000124134	potassium voltage-gated channel modifier subfamily S member 1 Source HGNC Symbol Acc HGNC 6300
F02	UPFH0333110	ENST00000635790.1	RYR3	ENSG00000198838	ryanodine receptor 3 Source HGNC Symbol Acc HGNC 10485
F03	UPFH0437363	ENST00000644826.1	SCN10A	ENSG00000185313	sodium voltage-gated channel alpha subunit 10 Source HGNC Symbol Acc HGNC 10582
F04	UPFH0058425	ENST00000456224.7	SCN11A	ENSG00000168356	sodium voltage-gated channel alpha subunit 11 Source HGNC Symbol Acc HGNC 10583
F05	UPFH0249109	ENST00000640036.1	SCN1A	ENSG00000144285	sodium voltage-gated channel alpha subunit 1 Source HGNC Symbol Acc HGNC 10585
F06	UPFH0373113	ENST00000595652.5	SCN1B	ENSG00000105711	sodium voltage-gated channel beta subunit 1 Source HGNC Symbol Acc HGNC 10586
F07	UPFH0219147	ENST00000636769.1	SCN2A	ENSG00000136531	sodium voltage-gated channel alpha subunit 2 Source HGNC Symbol Acc HGNC 10588
F08	UPFH0047177	ENST00000278947.5	SCN2B	ENSG00000149575	sodium voltage-gated channel beta subunit 2 Source HGNC Symbol Acc HGNC 10589
F09	UPFH0516393	ENST00000360093.7	SCN3A	ENSG00000153253	sodium voltage-gated channel alpha subunit 3 Source HGNC Symbol Acc HGNC 10590
F10	UPFH0526261	ENST00000638820.1	SCN8A	ENSG00000196876	sodium voltage-gated channel alpha subunit 8 Source HGNC Symbol Acc HGNC 10596

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0174759	ENST00000454569.6	SCN9A	ENSG00000169432	sodium voltage-gated channel alpha subunit 9 Source HGNC Symbol Acc HGNC 10597
F12	UPFH0563325	ENST00000616933.4	SLC12A5	ENSG00000124140	solute carrier family 12 member 5 Source HGNC Symbol Acc HGNC 13818
G01	UPFH0143414	ENST00000523582.5	TRPA1	ENSG00000104321	transient receptor potential cation channel subfamily A member 1 Source HGNC Symbol Acc HGNC 497
G02	UPFH0351452	ENST00000476941.6	TRPC1	ENSG00000144935	transient receptor potential cation channel subfamily C member 1 Source HGNC Symbol Acc HGNC 12333
G03	UPFH0541079	ENST00000513531.1	TRPC3	ENSG00000138741	transient receptor potential cation channel subfamily C member 3 Source HGNC Symbol Acc HGNC 12335
G04	UPFH0234061	ENST00000532133.5	TRPC6	ENSG00000137672	transient receptor potential cation channel subfamily C member 6 Source HGNC Symbol Acc HGNC 12338
G05	UPFH0456238	ENST00000558768.5	TRPM1	ENSG00000134160	transient receptor potential cation channel subfamily M member 1 Source HGNC Symbol Acc HGNC 7146
G06	UPFH0217684	ENST00000621064.1	TRPM2	ENSG00000142185	transient receptor potential cation channel subfamily M member 2 Source HGNC Symbol Acc HGNC 12339
G07	UPFH0328467	ENST00000360774.6	TRPM6	ENSG00000119121	transient receptor potential cation channel subfamily M member 6 Source HGNC Symbol Acc HGNC 17995
G08	UPFH0540997	ENST00000433712.6	TRPM8	ENSG00000144481	transient receptor potential cation channel subfamily M member 8 Source HGNC Symbol Acc HGNC 17961
G09	UPFH0571060	ENST00000399756.8	TRPV1	ENSG00000196689	transient receptor potential cation channel subfamily V member 1 Source HGNC Symbol Acc HGNC 12716
G10	UPFH0225982	ENST00000577865.2	TRPV2	ENSG00000187688	transient receptor potential cation channel subfamily V member 2 Source HGNC Symbol Acc HGNC 18082
G11	UPFH0506414	ENST00000616411.4	TRPV3	ENSG00000167723	transient receptor potential cation channel subfamily V member 3 Source HGNC Symbol Acc HGNC 18084
G12	UPFH0395222	ENST00000544971.5	TRPV4	ENSG00000111199	transient receptor potential cation channel subfamily V member 4 Source HGNC Symbol Acc HGNC 18083
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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