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

Human Pain: Neuropathic & Inflammatory

Cat. no. 249955 UPHS-162ZA

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	ACE	ADORA1	ADRB2	ALOX5	BDKRB1	BDNF	CACNA1B	CALCA	CCK	CCKBR	CCL2	CCR2
B	CD200	CD4	CHRNA4	CNR1	CNR2	COMT	CSF1	CX3CR1	DBH	EDN1	EDNRA	FAAH
C	GCH1	GDNF	GRIN1	GRIN2B	GRM1	GRM5	HTR1A	HTR2A	IL10	IL18	IL1A	IL1B
D	IL2	IL6	ITGAM	ITGB2	KCNIP3	KCNJ6	KCNQ2	KCNQ3	MAOB	MAPK1	MAPK14	MAPK3
E	MAPK8	NGF	NTRK1	OPRD1	OPRK1	OPRM1	P2RX3	P2RX4	P2RX7	P2RY1	PDYN	PENK
F	PLA2G1B	PNOC	PROK2	PTGER1	PTGER3	PTGER4	PTGES	PTGES2	PTGES3	PTGS1	PTGS2	SCN10A
G	SCN11A	SCN3A	SCN9A	SLC6A2	TAC1	TACR1	TLR2	TLR4	TNF	TRPA1	TRPV1	TRPV3
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	UPFH0471979	ENST00000467253.1	ADORA1	ENSG00000163485	adenosine A1 receptor Source HGNC Symbol Acc HGNC 262
A03	UPFH0552004	ENST00000305988.5	ADRB2	ENSG00000169252	adrenoceptor beta 2 Source HGNC Symbol Acc HGNC 286
A04	UPFH1132227	ENST00000612635.4	ALOX5	ENSG00000012779	arachidonate 5-lipoxygenase Source HGNC Symbol Acc HGNC 435
A05	UPFH0049435	ENST00000216629.11	BDKRB1	ENSG00000100739	bradykinin receptor B1 Source HGNC Symbol Acc HGNC 1029
A06	UPFH0520944	ENST00000525528.1	BDNF	ENSG00000176697	brain derived neurotrophic factor Source HGNC Symbol Acc HGNC 1033
A07	UPFH0070324	ENST00000371372.6	CACNA1B	ENSG00000148408	calcium voltage-gated channel subunit alpha1 B Source HGNC Symbol Acc HGNC 1389
A08	UPFH0317713	ENST00000331587.8	CALCA	ENSG00000110680	calcitonin related polypeptide alpha Source HGNC Symbol Acc HGNC 1437
A09	UPFH0102237	ENST00000334681.9	CCK	ENSG00000187094	cholecystokinin Source HGNC Symbol Acc HGNC 1569
A10	UPFH0205822	ENST00000525462.1	CCKBR	ENSG00000110148	cholecystokinin B receptor Source HGNC Symbol Acc HGNC 1571
A11	UPFH1132783	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A12	UPFH0175349	ENST00000445132.2	CCR2	ENSG00000121807	C-C motif chemokine receptor 2 Source HGNC Symbol Acc HGNC 1603
B01	UPFH0358402	ENST00000315711.12	CD200	ENSG00000091972	CD200 molecule Source HGNC Symbol Acc HGNC 7203
B02	UPFH1132302	ENST00000541982.5	CD4	ENSG00000010610	CD4 molecule Source HGNC Symbol Acc HGNC 1678
B03	UPFH0038991	ENST00000463705.5	CHRNA4	ENSG00000101204	cholinergic receptor nicotinic alpha 4 subunit Source HGNC Symbol Acc HGNC 1958
B04	UPFH0389304	ENST00000428600.2	CNR1	ENSG00000118432	cannabinoid receptor 1 Source HGNC Symbol Acc HGNC 2159
B05	UPFH0468236	ENST00000374472.5	CNR2	ENSG00000188822	cannabinoid receptor 2 Source HGNC Symbol Acc HGNC 2160
B06	UPFH0043531	ENST00000361682.10	COMT	ENSG00000093010	catechol-O-methyltransferase Source HGNC Symbol Acc HGNC 2228
B07	UPFH1132338	ENST00000329608.11	CSF1	ENSG00000184371	colony stimulating factor 1 Source HGNC Symbol Acc HGNC 2432
B08	UPFH0561943	ENST00000399220.2	CX3CR1	ENSG00000168329	C-X3-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 2558
B09	UPFH0151477	ENST00000393056.7	DBH	ENSG00000123454	dopamine beta-hydroxylase Source HGNC Symbol Acc HGNC 2689
B10	UPFH1132801	ENST00000379375.6	EDN1	ENSG00000078401	endothelin 1 Source HGNC Symbol Acc HGNC 3176
B11	UPFH1132379	ENST00000511804.5	EDNRA	ENSG00000151617	endothelin receptor type A Source HGNC Symbol Acc HGNC 3179
B12	UPFH0568947	ENST00000243167.9	FAAH	ENSG00000117480	fatty acid amide hydrolase Source HGNC Symbol Acc HGNC 3553
C01	UPFH0514217	ENST00000543643.6	GCH1	ENSG00000131979	GTP cyclohydrolase 1 Source HGNC Symbol Acc HGNC 4193
C02	UPFH0398280	ENST00000510177.5	GDNF	ENSG00000168621	glial cell derived neurotrophic factor Source HGNC Symbol Acc HGNC 4232
C03	UPFH0460129	ENST00000371561.8	GRIN1	ENSG00000176884	glutamate ionotropic receptor NMDA type subunit 1 Source HGNC Symbol Acc HGNC 4584
C04	UPFH0487402	ENST00000628166.1	GRIN2B	ENSG00000273079	glutamate ionotropic receptor NMDA type subunit 2B Source HGNC Symbol Acc HGNC 4586
C05	UPFH0087489	ENST00000282753.6	GRM1	ENSG00000152822	glutamate metabotropic receptor 1 Source HGNC Symbol Acc HGNC 4593
C06	UPFH0485590	ENST00000305447.4	GRM5	ENSG00000168959	glutamate metabotropic receptor 5 Source HGNC Symbol Acc HGNC 4597
C07	UPFH0122721	ENST00000323865.4	HTR1A	ENSG00000178394	5-hydroxytryptamine receptor 1A Source HGNC Symbol Acc HGNC 5286
C08	UPFH0492753	ENST00000543956.4	HTR2A	ENSG00000102468	5-hydroxytryptamine receptor 2A Source HGNC Symbol Acc HGNC 5293
C09	UPFH0028177	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
C10	UPFH1132481	ENST00000528832.1	IL18	ENSG00000150782	interleukin 18 Source HGNC Symbol Acc HGNC 5986
		ENST00000263		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0436255	339.3	IL1A	115008	interleukin 1 alpha Source HGNC Symbol Acc HGNC 5991
C12	UPFH0163764	ENST00000263341.6	IL1B	ENSG00000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
D01	UPFH0116492	ENST00000226730.4	IL2	ENSG00000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
D02	UPFH1172910	ENST00000258743.10	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
D03	UPFH0542903	ENST00000287497.13	ITGAM	ENSG00000169896	integrin subunit alpha M Source HGNC Symbol Acc HGNC 6149
D04	UPFH1132499	ENST00000397850.6	ITGB2	ENSG00000160255	integrin subunit beta 2 Source HGNC Symbol Acc HGNC 6155
D05	UPFH0101670	ENST00000295225.10	KCNIP3	ENSG00000115041	potassium voltage-gated channel interacting protein 3 Source HGNC Symbol Acc HGNC 15523
D06	UPFH0591146	ENST00000645093.1	KCNJ6	ENSG00000157542	potassium voltage-gated channel subfamily J member 6 Source HGNC Symbol Acc HGNC 6267
D07	UPFH0100935	ENST00000629676.2	KCNQ2	ENSG00000075043	potassium voltage-gated channel subfamily Q member 2 Source HGNC Symbol Acc HGNC 6296
D08	UPFH0244248	ENST00000388996.10	KCNQ3	ENSG00000184156	potassium voltage-gated channel subfamily Q member 3 Source HGNC Symbol Acc HGNC 6297
D09	UPFH0020129	ENST00000378069.5	MAOB	ENSG00000069535	monoamine oxidase B Source HGNC Symbol Acc HGNC 6834
D10	UPFH0366815	ENST00000215832.10	MAPK1	ENSG00000100030	mitogen-activated protein kinase 1 Source HGNC Symbol Acc HGNC 6871
D11	UPFH0068247	ENST00000229795.7	MAPK14	ENSG00000112062	mitogen-activated protein kinase 14 Source HGNC Symbol Acc HGNC 6876
D12	UPFH1132534	ENST00000481230.1	MAPK3	ENSG00000102882	mitogen-activated protein kinase 3 Source HGNC Symbol Acc HGNC 6877
E01	UPFH1132535	ENST00000374179.8	MAPK8	ENSG00000107643	mitogen-activated protein kinase 8 Source HGNC Symbol Acc HGNC 6881
E02	UPFH0235569	ENST00000369512.2	NGF	ENSG00000134259	nerve growth factor Source HGNC Symbol Acc HGNC 7808
E03	UPFH0340767	ENST00000358660.3	NTRK1	ENSG00000198400	neurotrophic receptor tyrosine kinase 1 Source HGNC Symbol Acc HGNC 8031
E04	UPFH0369959	ENST00000621425.1	OPRD1	ENSG00000116329	opioid receptor delta 1 Source HGNC Symbol Acc HGNC 8153
E05	UPFH0119876	ENST00000520287.5	OPRK1	ENSG00000082556	opioid receptor kappa 1 Source HGNC Symbol Acc HGNC 8154
E06	UPFH0581129	ENST00000435918.6	OPRM1	ENSG00000112038	opioid receptor mu 1 Source HGNC Symbol Acc HGNC 8156
E07	UPFH0443628	ENST00000263314.2	P2RX3	ENSG00000109991	purinergic receptor P2X 3 Source HGNC Symbol Acc HGNC 8534
E08	UPFH0410154	ENST00000543430.5	P2RX4	ENSG00000135124	purinergic receptor P2X 4 Source HGNC Symbol Acc HGNC 8535
E09	UPFH0094042	ENST00000539606.5	P2RX7	ENSG00000089041	purinergic receptor P2X 7 Source HGNC Symbol Acc HGNC 8537
E10	UPFH0307490	ENST00000305097.6	P2RY1	ENSG00000169860	purinergic receptor P2Y1 Source HGNC Symbol Acc HGNC 8539
E11	UPFH0279011	ENST00000651684.1	PDYN	ENSG00000101327	prodynorphin Source HGNC Symbol Acc HGNC 8820
E12	UPFH0399007	ENST00000523051.5	PENK	ENSG00000181195	proenkephalin Source HGNC Symbol Acc HGNC 8831
F01	UPFH0561862	ENST00000308366.9	PLA2G1B	ENSG00000170890	phospholipase A2 group IB Source HGNC Symbol Acc HGNC 9030
F02	UPFH0496622	ENST00000301908.8	PNOC	ENSG00000168081	prepronociceptin Source HGNC Symbol Acc HGNC 9163
F03	UPFH0318194	ENST00000353065.7	PROK2	ENSG00000163421	prokineticin 2 Source HGNC Symbol Acc HGNC 18455
F04	UPFH1133427	ENST00000292513.4	PTGER1	ENSG00000160951	prostaglandin E receptor 1 Source HGNC Symbol Acc HGNC 9593
F05	UPFH0293424	ENST00000370932.6	PTGER3	ENSG00000050628	prostaglandin E receptor 3 Source HGNC Symbol Acc HGNC 9595
F06	UPFH0589941	ENST00000302472.4	PTGER4	ENSG00000171522	prostaglandin E receptor 4 Source HGNC Symbol Acc HGNC 9596
F07	UPFH0437621	ENST00000481476.1	PTGES	ENSG00000148344	prostaglandin E synthase Source HGNC Symbol Acc HGNC 9599
F08	UPFH0424350	ENST00000338961.11	PTGES2	ENSG00000148334	prostaglandin E synthase 2 Source HGNC Symbol Acc HGNC 17822
F09	UPFH0318382	ENST00000614328.4	PTGES3	ENSG00000110958	prostaglandin E synthase 3 Source HGNC Symbol Acc HGNC 16049
F10	UPFH0450481	ENST00000619306.5	PTGS1	ENSG00000095303	prostaglandin-endoperoxide synthase 1 Source HGNC Symbol Acc HGNC 9604

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH1132642	ENST00000367468.10	PTGS2	ENSG00000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
F12	UPFH0437363	ENST00000644826.1	SCN10A	ENSG00000185313	sodium voltage-gated channel alpha subunit 10 Source HGNC Symbol Acc HGNC 10582
G01	UPFH0058425	ENST00000456224.7	SCN11A	ENSG00000168356	sodium voltage-gated channel alpha subunit 11 Source HGNC Symbol Acc HGNC 10583
G02	UPFH0516393	ENST00000360093.7	SCN3A	ENSG00000153253	sodium voltage-gated channel alpha subunit 3 Source HGNC Symbol Acc HGNC 10590
G03	UPFH0174759	ENST00000454569.6	SCN9A	ENSG00000169432	sodium voltage-gated channel alpha subunit 9 Source HGNC Symbol Acc HGNC 10597
G04	UPFH0497250	ENST00000566163.5	SLC6A2	ENSG00000103546	solute carrier family 6 member 2 Source HGNC Symbol Acc HGNC 11048
G05	UPFH0246449	ENST00000350485.8	TAC1	ENSG00000006128	tachykinin precursor 1 Source HGNC Symbol Acc HGNC 11517
G06	UPFH0340276	ENST00000409848.3	TACR1	ENSG00000115353	tachykinin receptor 1 Source HGNC Symbol Acc HGNC 11526
G07	UPFH0035742	ENST00000642700.1	TLR2	ENSG00000137462	toll like receptor 2 Source HGNC Symbol Acc HGNC 11848
G08	UPFH1132859	ENST00000645071.1	TLR4	ENSG00000136869	toll like receptor 4 Source HGNC Symbol Acc HGNC 11850
G09	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G10	UPFH0143414	ENST00000523582.5	TRPA1	ENSG00000104321	transient receptor potential cation channel subfamily A member 1 Source HGNC Symbol Acc HGNC 497
G11	UPFH0571060	ENST00000399756.8	TRPV1	ENSG00000196689	transient receptor potential cation channel subfamily V member 1 Source HGNC Symbol Acc HGNC 12716
G12	UPFH0506414	ENST00000616411.4	TRPV3	ENSG00000167723	transient receptor potential cation channel subfamily V member 3 Source HGNC Symbol Acc HGNC 18084
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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