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

Human Neurotrophins & Receptors

Cat. no. 249955 UPHS-031ZA

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	ADCYAP1R1	ARTN	BAX	BCL2	BDNF	CBLN1	CCKAR	CD40	CNTF	CNTFR	CRH	CRHBP
B	CRHR1	CRHR2	CX3CR1	CXCR4	FAS	FGF2	FGF9	FGFR1	FOS	FRS2	FRS3	FUS
C	GALR1	GALR2	GDNF	GFRA1	GFRA2	GFRA3	GMFB	GMFG	GRPR	HCRT	HSPB1	IL10
D	IL10RA	IL1B	IL1R1	IL6	IL6R	IL6ST	LIF	LIFR	MAGED1	MC2R	MEF2C	MT3
E	MYC	NELL1	NF1	NGF	NGFR	BEX3	NPFF	NPFFR2	NPY	NPY1R	NPY2R	NR1I2
F	NRG1	NRG2	NRG4	NTF3	NTF4	NTRK1	NTRK2	NTSR1	PNOC	NPY4R	PSPN	PTGER2
G	STAT1	STAT2	STAT3	STAT4	TACR1	TFG	TGFA	TGFB1	TP53	TRO	UCN	VGF
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	UPFH0499856	ENST00000304166.8	ADCYAP1R1	ENSG00000078549	ADCYAP receptor type I Source HGNC Symbol Acc HGNC 242
A02	UPFH0514076	ENST00000491846.5	ARTN	ENSG00000117407	artemin Source HGNC Symbol Acc HGNC 727
A03	UPFH0540159	ENST00000293288.12	BAX	ENSG00000087088	BCL2 associated X, apoptosis regulator Source HGNC Symbol Acc HGNC 959
A04	UPFH1132900	ENST00000333681.5	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A05	UPFH0520944	ENST00000525528.1	BDNF	ENSG00000176697	brain derived neurotrophic factor Source HGNC Symbol Acc HGNC 1033
A06	UPFH0346380	ENST00000219197.11	CBLN1	ENSG00000102924	cerebellin 1 precursor Source HGNC Symbol Acc HGNC 1543
A07	UPFH0384581	ENST00000295589.3	CCKAR	ENSG00000163394	cholecystokinin A receptor Source HGNC Symbol Acc HGNC 1570
A08	UPFH0317626	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
A09	UPFH1172904	ENST00000361987.6	CNTF	ENSG00000242689	ciliary neurotrophic factor Source HGNC Symbol Acc HGNC 2169
A10	UPFH0473053	ENST00000378980.8	CNTFR	ENSG00000122756	ciliary neurotrophic factor receptor Source HGNC Symbol Acc HGNC 2170
A11	UPFH0547720	ENST00000276571.5	CRH	ENSG00000147571	corticotropin releasing hormone Source HGNC Symbol Acc HGNC 2355
A12	UPFH0534423	ENST00000274368.9	CRHBP	ENSG00000145708	corticotropin releasing hormone binding protein Source HGNC Symbol Acc HGNC 2356
B01	UPFH0116002	ENST00000352855.9	CRHR1	ENSG00000120088	corticotropin releasing hormone receptor 1 Source HGNC Symbol Acc HGNC 2357
B02	UPFH0078515	ENST00000341843.8	CRHR2	ENSG00000106113	corticotropin releasing hormone receptor 2 Source HGNC Symbol Acc HGNC 2358
B03	UPFH0561943	ENST00000399220.2	CX3CR1	ENSG00000168329	C-X3-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 2558
B04	UPFH0570418	ENST00000241393.3	CXCR4	ENSG00000121966	C-X-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 2561
B05	UPFH1132395	ENST00000357339.6	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
B06	UPFH0613093	ENST00000264498.7	FGF2	ENSG00000138685	fibroblast growth factor 2 Source HGNC Symbol Acc HGNC 3676
B07	UPFH0365297	ENST00000461657.1	FGF9	ENSG00000102678	fibroblast growth factor 9 Source HGNC Symbol Acc HGNC 3687
B08	UPFH0483731	ENST00000447712.6	FGFR1	ENSG00000077782	fibroblast growth factor receptor 1 Source HGNC Symbol Acc HGNC 3688
B09	UPFH1132401	ENST00000555242.1	FOS	ENSG00000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
B10	UPFH0260835	ENST00000397997.6	FRS2	ENSG00000166225	fibroblast growth factor receptor substrate 2 Source HGNC Symbol Acc HGNC 16971
B11	UPFH1125272	ENST00000426290.1	FRS3	ENSG00000137218	fibroblast growth factor receptor substrate 3 Source HGNC Symbol Acc HGNC 16970
B12	UPFH0304951	ENST00000474990.5	FUS	ENSG00000089280	FUS RNA binding protein Source HGNC Symbol Acc HGNC 4010
C01	UPFH0203559	ENST00000299727.4	GALR1	ENSG00000166573	galanin receptor 1 Source HGNC Symbol Acc HGNC 4132
C02	UPFH0081213	ENST00000329003.4	GALR2	ENSG00000182687	galanin receptor 2 Source HGNC Symbol Acc HGNC 4133
C03	UPFH0398280	ENST00000510177.5	GDNF	ENSG00000168621	glial cell derived neurotrophic factor Source HGNC Symbol Acc HGNC 4232
C04	UPFH0475260	ENST00000355422.10	GFRA1	ENSG00000151892	GDNF family receptor alpha 1 Source HGNC Symbol Acc HGNC 4243
C05	UPFH0359534	ENST00000517328.5	GFRA2	ENSG00000168546	GDNF family receptor alpha 2 Source HGNC Symbol Acc HGNC 4244
C06	UPFH1125486	ENST00000274721.8	GFRA3	ENSG00000146013	GDNF family receptor alpha 3 Source HGNC Symbol Acc HGNC 4245
C07	UPFH0448270	ENST00000554247.5	GMFB	ENSG00000197045	glia maturation factor beta Source HGNC Symbol Acc HGNC 4373
C08	UPFH0252419	ENST00000600322.5	GMFG	ENSG00000130755	glia maturation factor gamma Source HGNC Symbol Acc HGNC 4374
C09	UPFH0606195	ENST00000380289.2	GRPR	ENSG00000126010	gastrin releasing peptide receptor Source HGNC Symbol Acc HGNC 4609
C10	UPFH0223085	ENST00000293330.1	HCRT	ENSG00000161610	hypocretin neuropeptide precursor Source HGNC Symbol Acc HGNC 4847
		ENST00000248		ENSG00000	heat shock protein family B (small) member 1 Source HGNC Symbol Acc HGNC

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH1139042	553.7	HSPB1	106211	5246
C12	UPFH0028177	ENST00000423 557.1	IL10	ENSG00000 136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D01	UPFH0594844	ENST00000227 752.7	IL10RA	ENSG00000 110324	interleukin 10 receptor subunit alpha Source HGNC Symbol Acc HGNC 5964
D02	UPFH0163764	ENST00000263 341.6	IL1B	ENSG00000 125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
D03	UPFH1132482	ENST00000442 590.5	IL1R1	ENSG00000 115594	interleukin 1 receptor type 1 Source HGNC Symbol Acc HGNC 5993
D04	UPFH1172910	ENST00000258 743.10	IL6	ENSG00000 136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
D05	UPFH1132484	ENST00000622 330.4	IL6R	ENSG00000 160712	interleukin 6 receptor Source HGNC Symbol Acc HGNC 6019
D06	UPFH0582962	ENST00000523 039.5	IL6ST	ENSG00000 134352	interleukin 6 signal transducer Source HGNC Symbol Acc HGNC 6021
D07	UPFH1132822	ENST00000249 075.4	LIF	ENSG00000 128342	LIF, interleukin 6 family cytokine Source HGNC Symbol Acc HGNC 6596
D08	UPFH0041279	ENST00000506 003.5	LIFR	ENSG00000 113594	LIF receptor alpha Source HGNC Symbol Acc HGNC 6597
D09	UPFH0040377	ENST00000473 931.1	MAGED1	ENSG00000 179222	MAGE family member D1 Source HGNC Symbol Acc HGNC 6813
D10	UPFH0428755	ENST00000327 606.3	MC2R	ENSG00000 185231	melanocortin 2 receptor Source HGNC Symbol Acc HGNC 6930
D11	UPFH0170268	ENST00000424 173.6	MEF2C	ENSG00000 081189	myocyte enhancer factor 2C Source HGNC Symbol Acc HGNC 6996
D12	UPFH1132878	ENST00000200 691.4	MT3	ENSG00000 087250	metallothionein 3 Source HGNC Symbol Acc HGNC 7408
E01	UPFH1132563	ENST00000517 291.1	MYC	ENSG00000 136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
E02	UPFH0345731	ENST00000528 046.5	NELL1	ENSG00000 165973	neural EGFL like 1 Source HGNC Symbol Acc HGNC 7750
E03	UPFH0158363	ENST00000431 387.8	NF1	ENSG00000 196712	neurofibromin 1 Source HGNC Symbol Acc HGNC 7765
E04	UPFH0235569	ENST00000369 512.2	NGF	ENSG00000 134259	nerve growth factor Source HGNC Symbol Acc HGNC 7808
E05	UPFH0277610	ENST00000172 229.8	NGFR	ENSG00000 064300	nerve growth factor receptor Source HGNC Symbol Acc HGNC 7809
E06	UPFH0369870	ENST00000372 635.1	BEX3	ENSG00000 166681	brain expressed X-linked 3 Source HGNC Symbol Acc HGNC 13388
E07	UPFH0446466	ENST00000267 017.3	NPFF	ENSG00000 139574	neuropeptide FF-amide peptide precursor Source HGNC Symbol Acc HGNC 7901
E08	UPFH0047364	ENST00000308 744.10	NPFFR2	ENSG00000 056291	neuropeptide FF receptor 2 Source HGNC Symbol Acc HGNC 4525
E09	UPFH0380153	ENST00000407 573.5	NPY	ENSG00000 122585	neuropeptide Y Source HGNC Symbol Acc HGNC 7955
E10	UPFH0023593	ENST00000504 391.5	NPY1R	ENSG00000 164128	neuropeptide Y receptor Y1 Source HGNC Symbol Acc HGNC 7956
E11	UPFH0055692	ENST00000506 608.1	NPY2R	ENSG00000 185149	neuropeptide Y receptor Y2 Source HGNC Symbol Acc HGNC 7957
E12	UPFH0364637	ENST00000493 757.1	NR1I2	ENSG00000 144852	nuclear receptor subfamily 1 group I member 2 Source HGNC Symbol Acc HGNC 7968
F01	UPFH0407423	ENST00000652 592.1	NRG1	ENSG00000 157168	neuregulin 1 Source HGNC Symbol Acc HGNC 7997
F02	UPFH0017444	ENST00000541 337.5	NRG2	ENSG00000 158458	neuregulin 2 Source HGNC Symbol Acc HGNC 7998
F03	UPFH0137283	ENST00000563 910.5	NRG4	ENSG00000 169752	neuregulin 4 Source HGNC Symbol Acc HGNC 29862
F04	UPFH0062043	ENST00000535 299.5	NTF3	ENSG00000 185652	neurotrophin 3 Source HGNC Symbol Acc HGNC 8023
F05	UPFH0326759	ENST00000594 938.1	NTF4	ENSG00000 225950	neurotrophin 4 Source HGNC Symbol Acc HGNC 8024
F06	UPFH0340767	ENST00000358 660.3	NTRK1	ENSG00000 198400	neurotrophic receptor tyrosine kinase 1 Source HGNC Symbol Acc HGNC 8031
F07	UPFH0140055	ENST00000376 208.5	NTRK2	ENSG00000 148053	neurotrophic receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 8032
F08	UPFH0126082	ENST00000482 259.1	NTSR1	ENSG00000 101188	neurotensin receptor 1 Source HGNC Symbol Acc HGNC 8039
F09	UPFH0496622	ENST00000301 908.8	PNOC	ENSG00000 168081	prepronociceptin Source HGNC Symbol Acc HGNC 9163
F10	UPFH0393584	ENST00000612 632.3	NPY4R	ENSG00000 204174	neuropeptide Y receptor Y4 Source HGNC Symbol Acc HGNC 9329

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0380101	ENST00000245810.1	PSPN	ENSG00000125650	persephin Source HGNC Symbol Acc HGNC 9579
F12	UPFH0561351	ENST00000245457.6	PTGER2	ENSG00000125384	prostaglandin E receptor 2 Source HGNC Symbol Acc HGNC 9594
G01	UPFH1132696	ENST00000392323.6	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G02	UPFH0338707	ENST00000652741.1	STAT2	ENSG00000170581	signal transducer and activator of transcription 2 Source HGNC Symbol Acc HGNC 11363
G03	UPFH0531262	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G04	UPFH1132697	ENST00000392320.7	STAT4	ENSG00000138378	signal transducer and activator of transcription 4 Source HGNC Symbol Acc HGNC 11365
G05	UPFH0340276	ENST00000409848.3	TACR1	ENSG00000115353	tachykinin receptor 1 Source HGNC Symbol Acc HGNC 11526
G06	UPFH0097578	ENST00000620299.4	TFG	ENSG00000114354	TRK-fused gene Source HGNC Symbol Acc HGNC 11758
G07	UPFH1132717	ENST00000295400.11	TGFA	ENSG00000163235	transforming growth factor alpha Source HGNC Symbol Acc HGNC 11765
G08	UPFH0193430	ENST00000221930.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G09	UPFH0565795	ENST00000269305.8	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G10	UPFH0372084	ENST00000420798.6	TRO	ENSG00000067445	trophinin Source HGNC Symbol Acc HGNC 12326
G11	UPFH1125579	ENST00000296099.2	UCN	ENSG00000163794	urocortin Source HGNC Symbol Acc HGNC 12516
G12	UPFH0573948	ENST00000445482.2	VGF	ENSG00000128564	VGF nerve growth factor inducible Source HGNC Symbol Acc HGNC 12684
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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