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

Human Neurotrophins & Receptors

Cat. no. 249950 SBHS-031ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA 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 PCR System 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 PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0131806	ENST00000409363.5	ADCYAP1R1	ENSG00000078549	ADCYAP receptor type I Source HGNC Symbol Acc HGNC 242
A02	SBH0038959	ENST00000414809.7	ARTN	ENSG00000117407	artemin Source HGNC Symbol Acc HGNC 727
A03	SBH1219783	ENST00000391871.4	BAX	ENSG00000087088	BCL2 associated X, apoptosis regulator Source HGNC Symbol Acc HGNC 959
A04	SBH1219786	ENST00000398117.1	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A05	SBH0006040	ENST00000525528.1	BDNF	ENSG00000176697	brain derived neurotrophic factor Source HGNC Symbol Acc HGNC 1033
A06	SBH0222926	ENST00000564786.1	CBLN1	ENSG00000102924	cerebellin 1 precursor Source HGNC Symbol Acc HGNC 1543
A07	SBH0291634	ENST00000295589.3	CCKAR	ENSG00000163394	cholecystokinin A receptor Source HGNC Symbol Acc HGNC 1570
A08	SBH1219861	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
A09	SBH1219893	ENST00000361987.6	CNTF	ENSG00000242689	ciliary neurotrophic factor Source HGNC Symbol Acc HGNC 2169
A10	SBH0562603	ENST00000610543.4	CNTFR	ENSG00000122756	ciliary neurotrophic factor receptor Source HGNC Symbol Acc HGNC 2170
A11	SBH0055799	ENST00000276571.5	CRH	ENSG00000147571	corticotropin releasing hormone Source HGNC Symbol Acc HGNC 2355
A12	SBH0047786	ENST00000274368.9	CRHBP	ENSG00000145708	corticotropin releasing hormone binding protein Source HGNC Symbol Acc HGNC 2356
B01	SBH0632511	ENST00000581479.1	CRHR1	ENSG00000120088	corticotropin releasing hormone receptor 1 Source HGNC Symbol Acc HGNC 2357
B02	SBH0297140	ENST00000341843.8	CRHR2	ENSG00000106113	corticotropin releasing hormone receptor 2 Source HGNC Symbol Acc HGNC 2358
B03	SBH0005890	ENST00000399220.2	CX3CR1	ENSG00000168329	C-X3-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 2558
B04	SBH0591410	ENST00000241393.3	CXCR4	ENSG00000121966	C-X-C motif chemokine receptor 4 Source HGNC Symbol Acc HGNC 2561
B05	SBH1219994	ENST00000652046.1	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
B06	SBH1220000	ENST00000264498.7	FGF2	ENSG00000138685	fibroblast growth factor 2 Source HGNC Symbol Acc HGNC 3676
B07	SBH0087968	ENST00000461657.1	FGF9	ENSG00000102678	fibroblast growth factor 9 Source HGNC Symbol Acc HGNC 3687
B08	SBH0226356	ENST00000326324.10	FGFR1	ENSG00000077782	fibroblast growth factor receptor 1 Source HGNC Symbol Acc HGNC 3688
B09	SBH1220004	ENST00000554617.1	FOS	ENSG00000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
B10	SBH0331293	ENST00000550937.5	FRS2	ENSG00000166225	fibroblast growth factor receptor substrate 2 Source HGNC Symbol Acc HGNC 16971
B11	SBH0299593	ENST00000426290.1	FRS3	ENSG00000137218	fibroblast growth factor receptor substrate 3 Source HGNC Symbol Acc HGNC 16970
B12	SBH0067264	ENST00000566605.5	FUS	ENSG00000089280	FUS RNA binding protein Source HGNC Symbol Acc HGNC 4010
C01	SBH0195798	ENST00000299727.4	GALR1	ENSG00000166573	galanin receptor 1 Source HGNC Symbol Acc HGNC 4132
C02	SBH0167966	ENST00000329003.4	GALR2	ENSG00000182687	galanin receptor 2 Source HGNC Symbol Acc HGNC 4133
C03	SBH0310916	ENST00000502572.1	GDNF	ENSG00000168621	glial cell derived neurotrophic factor Source HGNC Symbol Acc HGNC 4232
C04	SBH0637152	ENST00000439649.7	GFRA1	ENSG00000151892	GDNF family receptor alpha 1 Source HGNC Symbol Acc HGNC 4243
C05	SBH0556774	ENST00000518077.5	GFRA2	ENSG00000168546	GDNF family receptor alpha 2 Source HGNC Symbol Acc HGNC 4244
C06	SBH0573578	ENST00000378362.3	GFRA3	ENSG00000146013	GDNF family receptor alpha 3 Source HGNC Symbol Acc HGNC 4245
C07	SBH0190615	ENST00000554163.5	GMFB	ENSG00000197045	glia maturation factor beta Source HGNC Symbol Acc HGNC 4373
C08	SBH0527331	ENST00000595636.1	GMFG	ENSG00000130755	glia maturation factor gamma Source HGNC Symbol Acc HGNC 4374
C09	SBH0355522	ENST00000380289.2	GRPR	ENSG00000126010	gastrin releasing peptide receptor Source HGNC Symbol Acc HGNC 4609
C10	SBH0557487	ENST00000293330.1	HCRT	ENSG00000161610	hypocretin neuropeptide precursor Source HGNC Symbol Acc HGNC 4847
		ENST00000429		ENSG00000	heat shock protein family B (small) member 1 Source HGNC Symbol Acc HGNC

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0474094	938.1	HSPB1	106211	5246
C12	SBH1220095	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D01	SBH0388417	ENST00000227752.7	IL10RA	ENSG00000110324	interleukin 10 receptor subunit alpha Source HGNC Symbol Acc HGNC 5964
D02	SBH0079231	ENST00000263341.6	IL1B	ENSG00000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
D03	SBH1220104	ENST00000424272.5	IL1R1	ENSG00000115594	interleukin 1 receptor type 1 Source HGNC Symbol Acc HGNC 5993
D04	SBH1220111	ENST00000401630.7	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
D05	SBH1220112	ENST00000368485.8	IL6R	ENSG00000160712	interleukin 6 receptor Source HGNC Symbol Acc HGNC 6019
D06	SBH0280973	ENST00000503773.6	IL6ST	ENSG00000134352	interleukin 6 signal transducer Source HGNC Symbol Acc HGNC 6021
D07	SBH1220172	ENST00000249075.4	LIF	ENSG00000128342	LIF, interleukin 6 family cytokine Source HGNC Symbol Acc HGNC 6596
D08	SBH0373775	ENST00000506990.5	LIFR	ENSG00000113594	LIF receptor alpha Source HGNC Symbol Acc HGNC 6597
D09	SBH0499399	ENST00000375722.5	MAGED1	ENSG00000179222	MAGE family member D1 Source HGNC Symbol Acc HGNC 6813
D10	SBH0264822	ENST00000327606.3	MC2R	ENSG00000185231	melanocortin 2 receptor Source HGNC Symbol Acc HGNC 6930
D11	SBH0475014	ENST00000625585.2	MEF2C	ENSG00000081189	myocyte enhancer factor 2C Source HGNC Symbol Acc HGNC 6996
D12	SBH1220231	ENST00000561640.5	MT3	ENSG00000087250	metallothionein 3 Source HGNC Symbol Acc HGNC 7408
E01	SBH0426145	ENST00000524013.1	MYC	ENSG00000136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
E02	SBH0449565	ENST00000524738.1	NELL1	ENSG00000165973	neural EGFL like 1 Source HGNC Symbol Acc HGNC 7750
E03	SBH0472829	ENST00000358273.8	NF1	ENSG00000196712	neurofibromin 1 Source HGNC Symbol Acc HGNC 7765
E04	SBH0318562	ENST00000369512.2	NGF	ENSG00000134259	nerve growth factor Source HGNC Symbol Acc HGNC 7808
E05	SBH0556664	ENST00000504201.1	NGFR	ENSG00000064300	nerve growth factor receptor Source HGNC Symbol Acc HGNC 7809
E06	SBH0454278	ENST00000372635.1	BEX3	ENSG00000166681	brain expressed X-linked 3 Source HGNC Symbol Acc HGNC 13388
E07	SBH0572947	ENST00000267017.3	NPFF	ENSG00000139574	neuropeptide FF-amide peptide precursor Source HGNC Symbol Acc HGNC 7901
E08	SBH0426533	ENST00000308744.10	NPFFR2	ENSG00000056291	neuropeptide FF receptor 2 Source HGNC Symbol Acc HGNC 4525
E09	SBH0377787	ENST00000407573.5	NPY	ENSG00000122585	neuropeptide Y Source HGNC Symbol Acc HGNC 7955
E10	SBH0089061	ENST00000509586.5	NPY1R	ENSG00000164128	neuropeptide Y receptor Y1 Source HGNC Symbol Acc HGNC 7956
E11	SBH0197177	ENST00000506608.1	NPY2R	ENSG00000185149	neuropeptide Y receptor Y2 Source HGNC Symbol Acc HGNC 7957
E12	SBH0509930	ENST00000493757.1	NR1I2	ENSG00000144852	nuclear receptor subfamily 1 group I member 2 Source HGNC Symbol Acc HGNC 7968
F01	SBH0274670	ENST00000652592.1	NRG1	ENSG00000157168	neuregulin 1 Source HGNC Symbol Acc HGNC 7997
F02	SBH0471786	ENST00000361474.6	NRG2	ENSG00000158458	neuregulin 2 Source HGNC Symbol Acc HGNC 7998
F03	SBH0560783	ENST00000565661.5	NRG4	ENSG00000169752	neuregulin 4 Source HGNC Symbol Acc HGNC 29862
F04	SBH0012802	ENST00000543548.1	NTF3	ENSG00000185652	neurotrophin 3 Source HGNC Symbol Acc HGNC 8023
F05	SBH0261499	ENST00000593537.1	NTF4	ENSG00000225950	neurotrophin 4 Source HGNC Symbol Acc HGNC 8024
F06	SBH0383500	ENST00000392302.6	NTRK1	ENSG00000198400	neurotrophic receptor tyrosine kinase 1 Source HGNC Symbol Acc HGNC 8031
F07	SBH0629742	ENST00000277120.7	NTRK2	ENSG00000148053	neurotrophic receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 8032
F08	SBH0207698	ENST00000370501.4	NTSR1	ENSG00000101188	neurotensin receptor 1 Source HGNC Symbol Acc HGNC 8039
F09	SBH0090489	ENST00000522209.1	PNOC	ENSG00000168081	prepronociceptin Source HGNC Symbol Acc HGNC 9163
F10	SBH0315368	ENST00000612632.3	NPY4R	ENSG00000204174	neuropeptide Y receptor Y4 Source HGNC Symbol Acc HGNC 9329

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0231621	ENST00000597721.1	PSPN	ENSG00000125650	persephin Source HGNC Symbol Acc HGNC 9579
F12	SBH0060846	ENST00000557436.1	PTGER2	ENSG00000125384	prostaglandin E receptor 2 Source HGNC Symbol Acc HGNC 9594
G01	SBH0333289	ENST00000361099.7	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G02	SBH1220422	ENST00000314128.9	STAT2	ENSG00000170581	signal transducer and activator of transcription 2 Source HGNC Symbol Acc HGNC 11363
G03	SBH0341614	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G04	SBH1220423	ENST00000392320.7	STAT4	ENSG00000138378	signal transducer and activator of transcription 4 Source HGNC Symbol Acc HGNC 11365
G05	SBH0301003	ENST00000409848.3	TACR1	ENSG00000115353	tachykinin receptor 1 Source HGNC Symbol Acc HGNC 11526
G06	SBH0340934	ENST00000481203.1	TFG	ENSG00000114354	TRK-fused gene Source HGNC Symbol Acc HGNC 11758
G07	SBH1220442	ENST00000445399.5	TGFA	ENSG00000163235	transforming growth factor alpha Source HGNC Symbol Acc HGNC 11765
G08	SBH1220443	ENST00000598758.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G09	SBH1220486	ENST00000445888.6	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G10	SBH0506553	ENST00000622017.4	TRO	ENSG00000067445	trophinin Source HGNC Symbol Acc HGNC 12326
G11	SBH0131012	ENST00000296099.2	UCN	ENSG00000163794	urocortin Source HGNC Symbol Acc HGNC 12516
G12	SBH0597297	ENST00000249330.3	VGF	ENSG00000128564	VGF nerve growth factor inducible Source HGNC Symbol Acc HGNC 12684
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	SBH1218553	Sybr_HGDC	HGDC	Sybr_HGDC	Human Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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