

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

Mouse Neurotrophins & Receptors

Cat. no. 249950 SBMM-031ZA

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 (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Cnif	Cnfr	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	Hcrt1	Hcrt2
D	Hspb1	Il10	Il10ra	Il1b	Il1r1	Il6	Il6ra	Il6st	Lif	Lifr	Maged1	Mc2r
E	Mef2c	Mt3	Myc	Nf1	Ngf	Ngfr	Bex3	Nmbr	Npff	Npffr2	Npy	Npy1r
F	Npy2r	Nr1r2	Nrg1	Nrg4	Ntf3	Ntf5	Ntrk1	Ntrk2	Ntsr1	Npy4r	Pspn	Ptger2
G	Stat1	Stat2	Stat3	Stat4	Tacr1	Tfgr	Tgfa	Tgfb1	Tgfb1l1	Tro	Trp53	Ucn
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0799914	ENSMUST00000172084.7	Adcyap1r1	ENSMUSG0000029778	adenylate cyclase activating polypeptide 1 receptor 1 Source MGI Symbol Acc MGI 108449
A02	SBM0981474	ENSMUST00000070816.8	Artn	ENSMUSG0000028539	artemin Source MGI Symbol Acc MGI 1333791
A03	SBM0740166	ENSMUST00000211615.1	Bax	ENSMUSG0000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A04	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A05	SBM0985592	ENSMUST00000111042.2	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A06	SBM0937899	ENSMUST00000034076.15	Cbln1	ENSMUSG0000031654	cerebellin 1 precursor protein Source MGI Symbol Acc MGI 88281
A07	SBM0685417	ENSMUST00000200691.3	Cckar	ENSMUSG0000029193	cholecystokinin A receptor Source MGI Symbol Acc MGI 99478
A08	SBM0757957	ENSMUST00000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
A09	SBM0749576	ENSMUST00000112933.1	Cntf	ENSMUSG0000079415	ciliary neurotrophic factor Source MGI Symbol Acc MGI 88439
A10	SBM0994372	ENSMUST00000145379.1	Cntr	ENSMUSG0000028444	ciliary neurotrophic factor receptor Source MGI Symbol Acc MGI 99605
A11	SBM0920247	ENSMUST00000061294.4	Crh	ENSMUSG0000049796	corticotropin releasing hormone Source MGI Symbol Acc MGI 88496
A12	SBM0866330	ENSMUST00000045583.8	Crhbp	ENSMUSG0000021680	corticotropin releasing hormone binding protein Source MGI Symbol Acc MGI 88497
B01	SBM0944430	ENSMUST00000093925.4	Crhr1	ENSMUSG0000018634	corticotropin releasing hormone receptor 1 Source MGI Symbol Acc MGI 88498
B02	SBM0841267	ENSMUST00000164012.2	Crhr2	ENSMUSG0000003476	corticotropin releasing hormone receptor 2 Source MGI Symbol Acc MGI 894312
B03	SBM0805014	ENSMUST00000177637.1	Cx3cr1	ENSMUSG0000052336	chemokine (C-X3-C motif) receptor 1 Source MGI Symbol Acc MGI 1333815
B04	SBM0923037	ENSMUST00000052172.6	Cxcr4	ENSMUSG0000045382	chemokine (C-X-C motif) receptor 4 Source MGI Symbol Acc MGI 109563
B05	SBM0856649	ENSMUST00000112472.3	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
B06	SBM0959713	ENSMUST00000138563.8	Fgf2	ENSMUSG0000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
B07	SBM0984598	ENSMUST00000022545.13	Fgf9	ENSMUSG0000021974	fibroblast growth factor 9 Source MGI Symbol Acc MGI 104723
B08	SBM1002495	ENSMUST00000178276.7	Fgfr1	ENSMUSG0000031565	fibroblast growth factor receptor 1 Source MGI Symbol Acc MGI 95522
B09	SBM0977461	ENSMUST00000134311.1	Fos	ENSMUSG0000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
B10	SBM1093442	ENSMUST00000219483.1	Frs2	ENSMUSG0000020170	fibroblast growth factor receptor substrate 2 Source MGI Symbol Acc MGI 1100860
B11	SBM1066068	ENSMUST00000113296.7	Frs3	ENSMUSG0000023266	fibroblast growth factor receptor substrate 3 Source MGI Symbol Acc MGI 2135965
B12	SBM0927096	ENSMUST00000121616.8	Fus	ENSMUSG0000030795	fused in sarcoma Source MGI Symbol Acc MGI 1353633
C01	SBM0857513	ENSMUST00000065224.7	Galr1	ENSMUSG0000024553	galanin receptor 1 Source MGI Symbol Acc MGI 1096364
C02	SBM1037784	ENSMUST00000055872.2	Galr2	ENSMUSG0000020793	galanin receptor 2 Source MGI Symbol Acc MGI 1337018
C03	SBM0745351	ENSMUST00000022744.4	Gdnf	ENSMUSG0000022144	glial cell line derived neurotrophic factor Source MGI Symbol Acc MGI 107430
C04	SBM1023757	ENSMUST00000026076.13	Gfra1	ENSMUSG0000025089	glial cell line derived neurotrophic factor family receptor alpha 1 Source MGI Symbol Acc MGI 1100842
C05	SBM0956584	ENSMUST00000227633.1	Gfra2	ENSMUSG0000022103	glial cell line derived neurotrophic factor family receptor alpha 2 Source MGI Symbol Acc MGI 1195462
C06	SBM0829078	ENSMUST00000025224.8	Gfra3	ENSMUSG0000024366	glial cell line derived neurotrophic factor family receptor alpha 3 Source MGI Symbol Acc MGI 1201403
C07	SBM0960252	ENSMUST00000226333.1	Gmfb	ENSMUSG0000062014	glia maturation factor, beta Source MGI Symbol Acc MGI 1927133
C08	SBM0967215	ENSMUST00000108289.7	Gmfg	ENSMUSG0000060791	glia maturation factor, gamma Source MGI Symbol Acc MGI 1927135
C09	SBM0893313	ENSMUST00000033730.2	Grpr	ENSMUSG0000031364	gastrin releasing peptide receptor Source MGI Symbol Acc MGI 95836
C10	SBM0790070	ENSMUST00000055083.3	Hcrt	ENSMUSG0000045471	hypocretin Source MGI Symbol Acc MGI 1202306
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1015634	164887.2	Hctr1	000028778	hypocretin (orexin) receptor 1 Source MGI Symbol Acc MGI 2385650
C12	SBM0885920	ENSMUST00000184757.1	Hctr2	ENSMUSG0000032360	hypocretin (orexin) receptor 2 Source MGI Symbol Acc MGI 2680765
D01	SBM1021618	ENSMUST00000005077.6	Hspb1	ENSMUSG0000004951	heat shock protein 1 Source MGI Symbol Acc MGI 96240
D02	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
D03	SBM0888395	ENSMUST000000176808.1	Il10ra	ENSMUSG0000032089	interleukin 10 receptor, alpha Source MGI Symbol Acc MGI 96538
D04	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D05	SBM1086348	ENSMUST00000027241.10	Il1r1	ENSMUSG0000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D06	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D07	SBM0834938	ENSMUST000000197679.4	Il6ra	ENSMUSG0000027947	interleukin 6 receptor, alpha Source MGI Symbol Acc MGI 105304
D08	SBM0823451	ENSMUST000000183829.7	Il6st	ENSMUSG0000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
D09	SBM0873612	ENSMUST00000066283.11	Lif	ENSMUSG0000034394	leukemia inhibitory factor Source MGI Symbol Acc MGI 96787
D10	SBM0699496	ENSMUST00000067190.11	Lifr	ENSMUSG0000054263	LIF receptor alpha Source MGI Symbol Acc MGI 96788
D11	SBM0755032	ENSMUST000000153386.7	Maged1	ENSMUSG0000025151	melanoma antigen, family D, 1 Source MGI Symbol Acc MGI 1930187
D12	SBM0885969	ENSMUST00000052347.7	Mc2r	ENSMUSG0000045569	melanocortin 2 receptor Source MGI Symbol Acc MGI 96928
E01	SBM0750479	ENSMUST000000199210.4	Mef2c	ENSMUSG0000005583	myocyte enhancer factor 2C Source MGI Symbol Acc MGI 99458
E02	SBM0931289	ENSMUST00000034211.9	Mt3	ENSMUSG0000031760	metallothionein 3 Source MGI Symbol Acc MGI 97173
E03	SBM0987162	ENSMUST000000159338.1	Myc	ENSMUSG0000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
E04	SBM1038616	ENSMUST000000122917.7	Nf1	ENSMUSG0000020716	neurofibromin 1 Source MGI Symbol Acc MGI 97306
E05	SBM0986150	ENSMUST000000106925.8	Ngf	ENSMUSG0000027859	nerve growth factor Source MGI Symbol Acc MGI 97321
E06	SBM0740409	ENSMUST00000000122.6	Ngfr	ENSMUSG0000000120	nerve growth factor receptor (TNFR superfamily, member 16) Source MGI Symbol Acc MGI 97323
E07	SBM0791758	ENSMUST000000113113.1	Bex3	ENSMUSG0000046432	brain expressed X-linked 3 Source MGI Symbol Acc MGI 1338016
E08	SBM0892354	ENSMUST000000190114.1	Nmbr	ENSMUSG0000019865	neuromedin B receptor Source MGI Symbol Acc MGI 1100525
E09	SBM1054836	ENSMUST00000023814.8	Npff	ENSMUSG0000023052	neuropeptide FF-amide peptide precursor Source MGI Symbol Acc MGI 1891708
E10	SBM0967814	ENSMUST00000048557.2	Npffr2	ENSMUSG0000035528	neuropeptide FF receptor 2 Source MGI Symbol Acc MGI 1860130
E11	SBM0865432	ENSMUST00000031843.6	Npy	ENSMUSG0000029819	neuropeptide Y Source MGI Symbol Acc MGI 97374
E12	SBM0855010	ENSMUST00000039303.6	Npy1r	ENSMUSG0000036437	neuropeptide Y receptor Y1 Source MGI Symbol Acc MGI 104963
F01	SBM0685806	ENSMUST000000182181.7	Npy2r	ENSMUSG0000028004	neuropeptide Y receptor Y2 Source MGI Symbol Acc MGI 108418
F02	SBM0723887	ENSMUST00000023504.4	Nr1i2	ENSMUSG0000022809	nuclear receptor subfamily 1, group I, member 2 Source MGI Symbol Acc MGI 1337040
F03	SBM0794214	ENSMUST000000207417.1	Nrg1	ENSMUSG0000062991	neuregulin 1 Source MGI Symbol Acc MGI 96083
F04	SBM1082159	ENSMUST000000135531.1	Nrg4	ENSMUSG0000032311	neuregulin 4 Source MGI Symbol Acc MGI 1933833
F05	SBM0855486	ENSMUST000000204542.2	Ntf3	ENSMUSG0000049107	neurotrophin 3 Source MGI Symbol Acc MGI 97380
F06	SBM1013714	ENSMUST00000058879.7	Ntf5	ENSMUSG0000074121	neurotrophin 5 Source MGI Symbol Acc MGI 97381
F07	SBM0944038	ENSMUST00000029712.4	Ntrk1	ENSMUSG0000028072	neurotrophic tyrosine kinase, receptor, type 1 Source MGI Symbol Acc MGI 97383
F08	SBM1050719	ENSMUST000000224402.1	Ntrk2	ENSMUSG0000055254	neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384
F09	SBM0936312	ENSMUST000000170448.1	Ntsr1	ENSMUSG0000027568	neurotensin receptor 1 Source MGI Symbol Acc MGI 97386
F10	SBM1006886	ENSMUST00000052164.3	Npy4r	ENSMUSG0000048337	neuropeptide Y receptor Y4 Source MGI Symbol Acc MGI 105374

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0880402	ENSMUST00000002740.2	Pspn	ENSMUSG0000002664	persephin Source MGI Symbol Acc MGI 1201684
F12	SBM1019802	ENSMUST00000046891.5	Ptger2	ENSMUSG00000037759	prostaglandin E receptor 2 (subtype EP2) Source MGI Symbol Acc MGI 97794
G01	SBM0954168	ENSMUST00000070968.13	Stat1	ENSMUSG00000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G02	SBM0896602	ENSMUST00000085708.2	Stat2	ENSMUSG00000040033	signal transducer and activator of transcription 2 Source MGI Symbol Acc MGI 103039
G03	SBM0821931	ENSMUST000000103114.7	Stat3	ENSMUSG00000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G04	SBM0758089	ENSMUST000000187554.1	Stat4	ENSMUSG00000062939	signal transducer and activator of transcription 4 Source MGI Symbol Acc MGI 103062
G05	SBM0836174	ENSMUST000000203775.1	Tacr1	ENSMUSG00000030043	tachykinin receptor 1 Source MGI Symbol Acc MGI 98475
G06	SBM0722667	ENSMUST000000121554.7	Tfg	ENSMUSG00000022757	Trk-fused gene Source MGI Symbol Acc MGI 1338041
G07	SBM0940166	ENSMUST000000192058.3	Tgfa	ENSMUSG00000029999	transforming growth factor alpha Source MGI Symbol Acc MGI 98724
G08	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G09	SBM0744840	ENSMUST000000168825.7	Tgfb1i1	ENSMUSG00000030782	transforming growth factor beta 1 induced transcript 1 Source MGI Symbol Acc MGI 102784
G10	SBM1067572	ENSMUST000000171775.1	Tro	ENSMUSG00000025272	trophinin Source MGI Symbol Acc MGI 1928994
G11	SBM0841427	ENSMUST000000108657.3	Trp53	ENSMUSG00000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G12	SBM0843250	ENSMUST000000043475.6	Ucn	ENSMUSG00000038676	urocortin Source MGI Symbol Acc MGI 1276123
H01	SBM1220560	ENSMUST000000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST000000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST000000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST000000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST000000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse 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 μ l reactions: 20 μ l 8x gDNA Removal Mix, 10 μ l Reverse Transcription Enzyme, 40 μ l Reverse Transcription Mix (containing RT primers), 20 μ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green RT Mix, 20 μ l Internal Control RNA, 500 μ l Yellow Template Dilution Buffer, 250 μ l ROX Reference Dye, 1.9 μ l RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l 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.

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.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.