

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

Mouse Pain: Neuropathic & Inflammatory

Cat. no. 249950 SBMM-162ZR

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	Ace	Adora1	Adrb2	Alox5	Bdkrb1	Bdnf	Cacna1b	Calca	Cck	Cckbr	Ccl12	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	Kcni3	Kcni6	Kcni2	Kcni3	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	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0904655	ENSMUST00000151657.1	Ace	ENSMUSG0000020681	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 Source MGI Symbol Acc MGI 87874
A02	SBM0781237	ENSMUST00000187631.1	Adora1	ENSMUSG0000042429	adenosine A1 receptor Source MGI Symbol Acc MGI 99401
A03	SBM1025763	ENSMUST00000053640.4	Adrb2	ENSMUSG0000045730	adrenergic receptor, beta 2 Source MGI Symbol Acc MGI 87938
A04	SBM0830704	ENSMUST00000026795.12	Alox5	ENSMUSG0000025701	arachidonate 5-lipoxygenase Source MGI Symbol Acc MGI 87999
A05	SBM0915036	ENSMUST00000182899.1	Bdkrb1	ENSMUSG0000041347	bradykinin receptor, beta 1 Source MGI Symbol Acc MGI 88144
A06	SBM0985592	ENSMUST00000111042.2	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A07	SBM1049868	ENSMUST00000100348.9	Cacna1b	ENSMUSG0000004113	calcium channel, voltage-dependent, N type, alpha 1B subunit Source MGI Symbol Acc MGI 88296
A08	SBM0833704	ENSMUST00000206156.1	Calca	ENSMUSG0000030669	calcitonin/calcitonin-related polypeptide, alpha Source MGI Symbol Acc MGI 2151253
A09	SBM0761359	ENSMUST00000213106.1	Cck	ENSMUSG0000032532	cholecystokinin Source MGI Symbol Acc MGI 88297
A10	SBM1074071	ENSMUST00000181339.7	Cckbr	ENSMUSG0000030898	cholecystokinin B receptor Source MGI Symbol Acc MGI 99479
A11	SBM0687223	ENSMUST0000000194.3	Ccl12	ENSMUSG0000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
A12	SBM0796638	ENSMUST00000168841.2	Ccr2	ENSMUSG0000049103	chemokine (C-C motif) receptor 2 Source MGI Symbol Acc MGI 106185
B01	SBM0745148	ENSMUST00000166512.1	Cd200	ENSMUSG0000022661	CD200 antigen Source MGI Symbol Acc MGI 1196990
B02	SBM1064445	ENSMUST00000024044.6	Cd4	ENSMUSG0000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
B03	SBM0826587	ENSMUST00000108851.7	Chrna4	ENSMUSG0000027577	cholinergic receptor, nicotinic, alpha polypeptide 4 Source MGI Symbol Acc MGI 87888
B04	SBM1037540	ENSMUST00000084736.2	Cnr1	ENSMUSG0000044288	cannabinoid receptor 1 (brain) Source MGI Symbol Acc MGI 104615
B05	SBM0687602	ENSMUST00000097843.8	Cnr2	ENSMUSG0000062585	cannabinoid receptor 2 (macrophage) Source MGI Symbol Acc MGI 104650
B06	SBM0791437	ENSMUST0000000335.11	Comt	ENSMUSG0000000326	catechol-O-methyltransferase Source MGI Symbol Acc MGI 88470
B07	SBM0903322	ENSMUST00000155557.1	Csf1	ENSMUSG0000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B08	SBM0805014	ENSMUST00000177637.1	Cx3cr1	ENSMUSG0000052336	chemokine (C-X3-C motif) receptor 1 Source MGI Symbol Acc MGI 1333815
B09	SBM1077536	ENSMUST00000000910.6	Dbh	ENSMUSG0000000889	dopamine beta hydroxylase Source MGI Symbol Acc MGI 94864
B10	SBM0992224	ENSMUST00000021796.8	Edn1	ENSMUSG0000021367	endothelin 1 Source MGI Symbol Acc MGI 95283
B11	SBM0725285	ENSMUST00000034029.7	Ednra	ENSMUSG0000031616	endothelin receptor type A Source MGI Symbol Acc MGI 105923
B12	SBM1047406	ENSMUST00000150614.1	Faah	ENSMUSG0000034171	fatty acid amide hydrolase Source MGI Symbol Acc MGI 109609
C01	SBM0916524	ENSMUST00000089959.6	Gch1	ENSMUSG0000037580	GTP cyclohydrolase 1 Source MGI Symbol Acc MGI 95675
C02	SBM0745351	ENSMUST00000022744.4	Gdnf	ENSMUSG0000022144	glial cell line derived neurotrophic factor Source MGI Symbol Acc MGI 107430
C03	SBM1029073	ENSMUST00000028335.12	Grin1	ENSMUSG0000026959	glutamate receptor, ionotropic, NMDA1 (zeta 1) Source MGI Symbol Acc MGI 95819
C04	SBM0896174	ENSMUST00000143943.7	Grin2b	ENSMUSG0000030209	glutamate receptor, ionotropic, NMDA2B (epsilon 2) Source MGI Symbol Acc MGI 95821
C05	SBM1018691	ENSMUST00000044306.12	Grm1	ENSMUSG0000019828	glutamate receptor, metabotropic 1 Source MGI Symbol Acc MGI 1351338
C06	SBM0928000	ENSMUST00000138732.2	Grm5	ENSMUSG0000049583	glutamate receptor, metabotropic 5 Source MGI Symbol Acc MGI 1351342
C07	SBM0817571	ENSMUST00000022235.5	Htr1a	ENSMUSG0000021721	5-hydroxytryptamine (serotonin) receptor 1A Source MGI Symbol Acc MGI 96273
C08	SBM1031976	ENSMUST00000036653.4	Htr2a	ENSMUSG0000034997	5-hydroxytryptamine (serotonin) receptor 2A Source MGI Symbol Acc MGI 109521
C09	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
C10	SBM0953194	ENSMUST00000180021.1	Il18	ENSMUSG0000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1007460	028882.1	Il1a	000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
C12	SBM0738485	ENSMUST00000 028881.13	Il1b	ENSMUSG00 000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D01	SBM0797059	ENSMUST00000 029275.5	Il2	ENSMUSG00 000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D02	SBM0742623	ENSMUST00000 026845.11	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D03	SBM0730179	ENSMUST00000 156593.2	Itgam	ENSMUSG00 000030786	integrin alpha M Source MGI Symbol Acc MGI 96607
D04	SBM0947975	ENSMUST00000 131023.7	Itgb2	ENSMUSG00 000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
D05	SBM0749542	ENSMUST00000 028850.14	Kcnip3	ENSMUSG00 000079056	Kv channel interacting protein 3, calsenilin Source MGI Symbol Acc MGI 1929258
D06	SBM1008730	ENSMUST00000 232562.1	Kcnj6	ENSMUSG00 000043301	potassium inwardly-rectifying channel, subfamily J, member 6 Source MGI Symbol Acc MGI 104781
D07	SBM0874456	ENSMUST00000 129073.7	Kcnq2	ENSMUSG00 000016346	potassium voltage-gated channel, subfamily Q, member 2 Source MGI Symbol Acc MGI 1309503
D08	SBM0714491	ENSMUST00000 183354.1	Kcnq3	ENSMUSG00 000056258	potassium voltage-gated channel, subfamily Q, member 3 Source MGI Symbol Acc MGI 1336181
D09	SBM0839056	ENSMUST00000 040820.12	Maob	ENSMUSG00 000040147	monoamine oxidase B Source MGI Symbol Acc MGI 96916
D10	SBM0800614	ENSMUST00000 231821.1	Mapk1	ENSMUSG00 000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D11	SBM0683456	ENSMUST00000 114754.7	Mapk14	ENSMUSG00 000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
D12	SBM0856900	ENSMUST00000 206272.1	Mapk3	ENSMUSG00 000063065	mitogen-activated protein kinase 3 Source MGI Symbol Acc MGI 1346859
E01	SBM0984642	ENSMUST00000 132379.1	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
E02	SBM0986150	ENSMUST00000 106925.8	Ngf	ENSMUSG00 000027859	nerve growth factor Source MGI Symbol Acc MGI 97321
E03	SBM0944038	ENSMUST00000 029712.4	Ntrk1	ENSMUSG00 000028072	neurotrophic tyrosine kinase, receptor, type 1 Source MGI Symbol Acc MGI 97383
E04	SBM1023656	ENSMUST00000 056336.1	Oprd1	ENSMUSG00 000050511	opioid receptor, delta 1 Source MGI Symbol Acc MGI 97438
E05	SBM0944687	ENSMUST00000 160777.7	Oprk1	ENSMUSG00 000025905	opioid receptor, kappa 1 Source MGI Symbol Acc MGI 97439
E06	SBM1076575	ENSMUST00000 105607.7	Oprm1	ENSMUSG00 000000766	opioid receptor, mu 1 Source MGI Symbol Acc MGI 97441
E07	SBM1059554	ENSMUST00000 111613.7	P2rx3	ENSMUSG00 000027071	purinergic receptor P2X, ligand-gated ion channel, 3 Source MGI Symbol Acc MGI 1097160
E08	SBM0699665	ENSMUST00000 142664.2	P2rx4	ENSMUSG00 000029470	purinergic receptor P2X, ligand-gated ion channel 4 Source MGI Symbol Acc MGI 1338859
E09	SBM0965301	ENSMUST00000 199371.1	P2rx7	ENSMUSG00 000029468	purinergic receptor P2X, ligand-gated ion channel, 7 Source MGI Symbol Acc MGI 1339957
E10	SBM0794131	ENSMUST00000 193943.1	P2ry1	ENSMUSG00 000027765	purinergic receptor P2Y, G-protein coupled 1 Source MGI Symbol Acc MGI 105049
E11	SBM0795904	ENSMUST00000 152113.1	Pdyn	ENSMUSG00 000027400	prodynorphin Source MGI Symbol Acc MGI 97535
E12	SBM0797504	ENSMUST00000 133567.1	Penk	ENSMUSG00 000045573	preproenkephalin Source MGI Symbol Acc MGI 104629
F01	SBM0872788	ENSMUST00000 145785.7	Pla2g1b	ENSMUSG00 000029522	phospholipase A2, group IB, pancreas Source MGI Symbol Acc MGI 101842
F02	SBM0773831	ENSMUST00000 059339.5	Pnoc	ENSMUSG00 000045731	prepronociceptin Source MGI Symbol Acc MGI 105308
F03	SBM0752736	ENSMUST00000 032152.13	Prok2	ENSMUSG00 000030069	prokineticin 2 Source MGI Symbol Acc MGI 1354178
F04	SBM0806813	ENSMUST00000 019608.6	Ptger1	ENSMUSG00 000019464	prostaglandin E receptor 1 (subtype EP1) Source MGI Symbol Acc MGI 97793
F05	SBM1045222	ENSMUST00000 041175.12	Ptger3	ENSMUSG00 000040016	prostaglandin E receptor 3 (subtype EP3) Source MGI Symbol Acc MGI 97795
F06	SBM0775278	ENSMUST00000 047379.14	Ptger4	ENSMUSG00 000039942	prostaglandin E receptor 4 (subtype EP4) Source MGI Symbol Acc MGI 104311
F07	SBM0791278	ENSMUST00000 056046.9	Ptges	ENSMUSG00 000050737	prostaglandin E synthase Source MGI Symbol Acc MGI 1927593
F08	SBM0779001	ENSMUST00000 130121.2	Ptges2	ENSMUSG00 000026820	prostaglandin E synthase 2 Source MGI Symbol Acc MGI 1917592
F09	SBM0997142	ENSMUST00000 052798.13	Ptges3	ENSMUSG00 000071072	prostaglandin E synthase 3 Source MGI Symbol Acc MGI 1929282
F10	SBM0775877	ENSMUST00000 149930.2	Ptgs1	ENSMUSG00 000047250	prostaglandin-endoperoxide synthase 1 Source MGI Symbol Acc MGI 97797

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0782881	ENSMUST00000035065.8	Ptgs2	ENSMUSG00000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F12	SBM0788387	ENSMUST00000213392.1	Scn10a	ENSMUSG00000034533	sodium channel, voltage-gated, type X, alpha Source MGI Symbol Acc MGI 108029
G01	SBM1048086	ENSMUST00000215718.1	Scn11a	ENSMUSG00000034115	sodium channel, voltage-gated, type XI, alpha Source MGI Symbol Acc MGI 1345149
G02	SBM0782116	ENSMUST00000066432.11	Scn3a	ENSMUSG00000057182	sodium channel, voltage-gated, type III, alpha Source MGI Symbol Acc MGI 98249
G03	SBM0932091	ENSMUST00000164384.8	Scn9a	ENSMUSG00000075316	sodium channel, voltage-gated, type IX, alpha Source MGI Symbol Acc MGI 107636
G04	SBM0696440	ENSMUST00000072939.7	Slc6a2	ENSMUSG00000055368	solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2 Source MGI Symbol Acc MGI 1270850
G05	SBM1011481	ENSMUST00000185187.7	Tac1	ENSMUSG00000061762	tachykinin 1 Source MGI Symbol Acc MGI 98474
G06	SBM0836174	ENSMUST00000203775.1	Tacr1	ENSMUSG00000030043	tachykinin receptor 1 Source MGI Symbol Acc MGI 98475
G07	SBM0974490	ENSMUST00000029623.10	Tlr2	ENSMUSG00000027995	toll-like receptor 2 Source MGI Symbol Acc MGI 1346060
G08	SBM0745293	ENSMUST00000107365.2	Tlr4	ENSMUSG00000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G09	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G10	SBM0896820	ENSMUST00000235071.1	Trpa1	ENSMUSG00000032769	transient receptor potential cation channel, subfamily A, member 1 Source MGI Symbol Acc MGI 3522699
G11	SBM0823241	ENSMUST00000102526.8	Trpv1	ENSMUSG00000005952	transient receptor potential cation channel, subfamily V, member 1 Source MGI Symbol Acc MGI 1341787
G12	SBM0854408	ENSMUST00000049676.2	Trpv3	ENSMUSG00000043029	transient receptor potential cation channel, subfamily V, member 3 Source MGI Symbol Acc MGI 2181407
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	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.