

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

Mouse Inflammatory Cytokines & Receptors

Cat. no. 249950 SBMM-011ZR

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	Aimp1	Bmp2	Ccl1	Ccl11	Ccl12	Ccl17	Ccl19	Ccl2	Ccl20	Ccl22	Ccl24	Ccl3
B	Ccl4	Ccl5	Ccl6	Ccl7	Ccl8	Ccl9	Ccr1	Ccr10	Ccr2	Ccr3	Ccr4	Ccr5
C	Ccr6	Ccr8	Cd40lg	Csf1	Csf2	Csf3	Cx3cl1	Cxcl1	Cxcl10	Cxcl11	Cxcl12	Cxcl13
D	Cxcl15	Cxcl5	Cxcl9	Cxcr2	Cxcr3	Cxcr5	Fasf	Ifng	Il10ra	Il10rb	Il11	Il13
E	Il15	Il16	Il17a	Il17b	Il17f	Il1a	Il1b	Il1r1	Il1rn	Il21	Il27	Il2rb
F	Il2rg	Il3	Il33	Il4	Il5	Il5ra	Il6ra	Il6st	Il7	Ilta	Ilta	Mif
G	Namp1	Osm	Pf4	Spp1	Tnf	Tnfrsf11b	Tnfrsf10	Tnfrsf11	Tnfrsf13	Tnfrsf13b	Tnfrsf4	Vegfa
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	SBM0758354	ENSMUST00000196206.4	Aimp1	ENSMUSG0000028029	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 Source MGI Symbol Acc MGI 102774
A02	SBM0831820	ENSMUST00000028836.6	Bmp2	ENSMUSG00000027358	bone morphogenetic protein 2 Source MGI Symbol Acc MGI 88177
A03	SBM0725984	ENSMUST00000108189.8	Ccl1	ENSMUSG00000020702	chemokine (C-C motif) ligand 1 Source MGI Symbol Acc MGI 98258
A04	SBM0757192	ENSMUST00000000342.2	Ccl11	ENSMUSG00000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
A05	SBM0687223	ENSMUST00000000194.3	Ccl12	ENSMUSG00000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
A06	SBM0699395	ENSMUST00000034232.2	Ccl17	ENSMUSG00000031780	chemokine (C-C motif) ligand 17 Source MGI Symbol Acc MGI 1329039
A07	SBM1085373	ENSMUST00000102957.5	Ccl19	ENSMUSG00000071005	chemokine (C-C motif) ligand 19 Source MGI Symbol Acc MGI 1346316
A08	SBM0836747	ENSMUST00000000193.5	Ccl2	ENSMUSG00000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
A09	SBM1058215	ENSMUST00000113437.8	Ccl20	ENSMUSG00000026166	chemokine (C-C motif) ligand 20 Source MGI Symbol Acc MGI 1329031
A10	SBM0685855	ENSMUST00000034231.3	Ccl22	ENSMUSG00000031779	chemokine (C-C motif) ligand 22 Source MGI Symbol Acc MGI 1306779
A11	SBM0867136	ENSMUST0000004936.9	Ccl24	ENSMUSG0000004814	chemokine (C-C motif) ligand 24 Source MGI Symbol Acc MGI 1928953
A12	SBM0794563	ENSMUST00000001008.5	Ccl3	ENSMUSG0000000982	chemokine (C-C motif) ligand 3 Source MGI Symbol Acc MGI 98260
B01	SBM0939661	ENSMUST00000019074.3	Ccl4	ENSMUSG00000018930	chemokine (C-C motif) ligand 4 Source MGI Symbol Acc MGI 98261
B02	SBM0703029	ENSMUST00000125015.1	Ccl5	ENSMUSG00000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
B03	SBM1076242	ENSMUST00000019071.3	Ccl6	ENSMUSG00000018927	chemokine (C-C motif) ligand 6 Source MGI Symbol Acc MGI 98263
B04	SBM0998844	ENSMUST00000021011.2	Ccl7	ENSMUSG00000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
B05	SBM1067489	ENSMUST00000009329.2	Ccl8	ENSMUSG00000009185	chemokine (C-C motif) ligand 8 Source MGI Symbol Acc MGI 101878
B06	SBM0688036	ENSMUST00000019266.5	Ccl9	ENSMUSG00000019122	chemokine (C-C motif) ligand 9 Source MGI Symbol Acc MGI 104533
B07	SBM1015405	ENSMUST00000026911.5	Ccr1	ENSMUSG00000025804	chemokine (C-C motif) receptor 1 Source MGI Symbol Acc MGI 104618
B08	SBM0858133	ENSMUST00000062759.3	Ccr10	ENSMUSG00000044052	chemokine (C-C motif) receptor 10 Source MGI Symbol Acc MGI 1096320
B09	SBM0796638	ENSMUST00000168841.2	Ccr2	ENSMUSG00000049103	chemokine (C-C motif) receptor 2 Source MGI Symbol Acc MGI 106185
B10	SBM1022292	ENSMUST00000039171.8	Ccr3	ENSMUSG00000035448	chemokine (C-C motif) receptor 3 Source MGI Symbol Acc MGI 104616
B11	SBM0824531	ENSMUST00000054414.4	Ccr4	ENSMUSG00000047898	chemokine (C-C motif) receptor 4 Source MGI Symbol Acc MGI 107824
B12	SBM0964476	ENSMUST00000111442.2	Ccr5	ENSMUSG00000079227	chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182
C01	SBM0879668	ENSMUST00000164411.9	Ccr6	ENSMUSG00000040899	chemokine (C-C motif) receptor 6 Source MGI Symbol Acc MGI 1333797
C02	SBM0815029	ENSMUST00000048777.3	Ccr8	ENSMUSG00000042262	chemokine (C-C motif) receptor 8 Source MGI Symbol Acc MGI 1201402
C03	SBM0708134	ENSMUST00000033466.1	Cd40lg	ENSMUSG00000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
C04	SBM0903322	ENSMUST00000155557.1	Csf1	ENSMUSG0000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
C05	SBM1080991	ENSMUST00000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
C06	SBM0837472	ENSMUST00000038886.2	Csf3	ENSMUSG00000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
C07	SBM0783722	ENSMUST00000034230.6	Cx3cl1	ENSMUSG00000031778	chemokine (C-X3-C motif) ligand 1 Source MGI Symbol Acc MGI 1097153
C08	SBM0998835	ENSMUST00000031327.8	Cxcl1	ENSMUSG00000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
C09	SBM0996179	ENSMUST00000118006.2	Cxcl10	ENSMUSG00000034855	chemokine (C-X-C motif) ligand 10 Source MGI Symbol Acc MGI 1352450
C10	SBM0710486	ENSMUST00000122808.1	Cxcl11	ENSMUSG00000060183	chemokine (C-X-C motif) ligand 11 Source MGI Symbol Acc MGI 1860203
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0703161	134244.1	Cxcl12	000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
C12	SBM1027153	ENSMUST00000023840.6	Cxcl13	ENSMUSG0000023078	chemokine (C-X-C motif) ligand 13 Source MGI Symbol Acc MGI 1888499
D01	SBM0816626	ENSMUST00000031322.6	Cxcl15	ENSMUSG0000029375	chemokine (C-X-C motif) ligand 15 Source MGI Symbol Acc MGI 1339941
D02	SBM0760625	ENSMUST00000202380.1	Cxcl5	ENSMUSG0000029371	chemokine (C-X-C motif) ligand 5 Source MGI Symbol Acc MGI 1096868
D03	SBM0993686	ENSMUST00000113093.4	Cxcl9	ENSMUSG0000029417	chemokine (C-X-C motif) ligand 9 Source MGI Symbol Acc MGI 1352449
D04	SBM0963144	ENSMUST00000106899.3	Cxcr2	ENSMUSG0000026180	chemokine (C-X-C motif) receptor 2 Source MGI Symbol Acc MGI 105303
D05	SBM0682187	ENSMUST00000056614.6	Cxcr3	ENSMUSG0000050232	chemokine (C-X-C motif) receptor 3 Source MGI Symbol Acc MGI 1277207
D06	SBM0950831	ENSMUST00000179828.7	Cxcr5	ENSMUSG0000047880	chemokine (C-X-C motif) receptor 5 Source MGI Symbol Acc MGI 103567
D07	SBM0967876	ENSMUST0000000834.3	Fas1	ENSMUSG0000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
D08	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG00000055170	interferon gamma Source MGI Symbol Acc MGI 107656
D09	SBM0888395	ENSMUST00000176808.1	Il10ra	ENSMUSG0000032089	interleukin 10 receptor, alpha Source MGI Symbol Acc MGI 96538
D10	SBM0883363	ENSMUST00000156133.7	Il10rb	ENSMUSG0000022969	interleukin 10 receptor, beta Source MGI Symbol Acc MGI 109380
D11	SBM0752881	ENSMUST00000094892.11	Il11	ENSMUSG0000004371	interleukin 11 Source MGI Symbol Acc MGI 107613
D12	SBM0860496	ENSMUST00000020650.1	Il13	ENSMUSG0000020383	interleukin 13 Source MGI Symbol Acc MGI 96541
E01	SBM0737685	ENSMUST00000034148.6	Il15	ENSMUSG00000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
E02	SBM0679719	ENSMUST00000001792.11	Il16	ENSMUSG0000001741	interleukin 16 Source MGI Symbol Acc MGI 1270855
E03	SBM1055424	ENSMUST00000027061.4	Il17a	ENSMUSG0000025929	interleukin 17A Source MGI Symbol Acc MGI 107364
E04	SBM0707381	ENSMUST00000235713.1	Il17b	ENSMUSG0000024578	interleukin 17B Source MGI Symbol Acc MGI 1928397
E05	SBM0790079	ENSMUST00000039046.9	Il17f	ENSMUSG0000041872	interleukin 17F Source MGI Symbol Acc MGI 2676631
E06	SBM1007460	ENSMUST00000028882.1	Il1a	ENSMUSG0000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
E07	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
E08	SBM1086348	ENSMUST00000027241.10	Il1r1	ENSMUSG0000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
E09	SBM0732530	ENSMUST00000142093.6	Il1rn	ENSMUSG0000026981	interleukin 1 receptor antagonist Source MGI Symbol Acc MGI 96547
E10	SBM0747287	ENSMUST00000161015.1	Il21	ENSMUSG0000027718	interleukin 21 Source MGI Symbol Acc MGI 1890474
E11	SBM0706373	ENSMUST00000058429.5	Il27	ENSMUSG0000044701	interleukin 27 Source MGI Symbol Acc MGI 2384409
E12	SBM1056230	ENSMUST00000163494.2	Il2rb	ENSMUSG0000068227	interleukin 2 receptor, beta chain Source MGI Symbol Acc MGI 96550
F01	SBM0793634	ENSMUST00000127538.1	Il2rg	ENSMUSG00000031304	interleukin 2 receptor, gamma chain Source MGI Symbol Acc MGI 96551
F02	SBM1089901	ENSMUST00000019058.5	Il3	ENSMUSG0000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
F03	SBM0679001	ENSMUST00000120388.8	Il33	ENSMUSG0000024810	interleukin 33 Source MGI Symbol Acc MGI 1924375
F04	SBM0926369	ENSMUST00000150568.7	Il4	ENSMUSG0000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
F05	SBM1034588	ENSMUST00000048605.2	Il5	ENSMUSG0000036117	interleukin 5 Source MGI Symbol Acc MGI 96557
F06	SBM0863497	ENSMUST00000205004.1	Il5ra	ENSMUSG0000005364	interleukin 5 receptor, alpha Source MGI Symbol Acc MGI 96558
F07	SBM0834938	ENSMUST00000197679.4	Il6ra	ENSMUSG0000027947	interleukin 6 receptor, alpha Source MGI Symbol Acc MGI 105304
F08	SBM0823451	ENSMUST00000183829.7	Il6st	ENSMUSG0000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
F09	SBM1037504	ENSMUST00000168269.7	Il7	ENSMUSG0000040329	interleukin 7 Source MGI Symbol Acc MGI 96561
F10	SBM0790437	ENSMUST00000025266.5	Lta	ENSMUSG0000024402	lymphotoxin A Source MGI Symbol Acc MGI 104797

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0777783	ENSMUST00000173510.1	Ltb	ENSMUSG00000024399	lymphotoxin B Source MGI Symbol Acc MGI 104796
F12	SBM0802241	ENSMUST00000218267.1	Mif	ENSMUSG00000033307	macrophage migration inhibitory factor (glycosylation-inhibiting factor) Source MGI Symbol Acc MGI 96982
G01	SBM0859199	ENSMUST00000218491.1	Nampt	ENSMUSG00000020572	nicotinamide phosphoribosyltransferase Source MGI Symbol Acc MGI 1929865
G02	SBM0824436	ENSMUST00000131764.1	Osm	ENSMUSG00000058755	oncostatin M Source MGI Symbol Acc MGI 104749
G03	SBM0889385	ENSMUST00000031320.7	Pf4	ENSMUSG00000029373	platelet factor 4 Source MGI Symbol Acc MGI 1888711
G04	SBM0826950	ENSMUST00000086833.12	Spp1	ENSMUSG00000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
G05	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G06	SBM0675830	ENSMUST00000079772.3	Tnfrsf11b	ENSMUSG00000063727	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) Source MGI Symbol Acc MGI 109587
G07	SBM0969669	ENSMUST00000046383.11	Tnfsf10	ENSMUSG00000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G08	SBM1225403	ENSMUST00000022592.7	Tnfsf11	ENSMUSG00000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
G09	SBM1082975	ENSMUST00000018896.13	Tnfsf13	ENSMUSG00000089669	tumor necrosis factor (ligand) superfamily, member 13 Source MGI Symbol Acc MGI 1916833
G10	SBM0908217	ENSMUST000000208683.1	Tnfsf13b	ENSMUSG00000031497	tumor necrosis factor (ligand) superfamily, member 13b Source MGI Symbol Acc MGI 1344376
G11	SBM1089254	ENSMUST00000028024.4	Tnfsf4	ENSMUSG00000026700	tumor necrosis factor (ligand) superfamily, member 4 Source MGI Symbol Acc MGI 104511
G12	SBM1079198	ENSMUST000000217017.1	Vegfa	ENSMUSG00000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
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.

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