

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

Mouse Dendritic & Antigen Presenting Cell

Cat. no. 249950 SBMM-406ZR

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	Cd11	Cd12	Cd17	Ccl19	Cd2	Cd20	Cd3	Cd4	Ccl5	Cd7	Cd8	Ccr1
B	Ccr2	Ccr3	Ccr5	Ccr9	Cd1d1	Cd1d2	Cd2	Cd209a	Cd28	Cd33	Cd36	Cd4
C	Cd40	Cd40lg	Cd44	Cd74	Cd80	Cd86	Cd8a	Cd42	Cdln1a	Cebpa	Clec4b2	Csf1r
D	Csf2	Cxcl1	Cxcl10	Cxcl12	Cxcl2	Cxcr1	Cxcr4	ErbB2	Fos	Fcer1a	Fcer2a	Fcgr1
E	Fcgrt	Flt3	Flt3l	H2-DMA	Icam1	Icam2	Ifng	Il10	Il12a	Il12b	Il16	Il2
F	Il6	Ilr7	Itgam	Itgb2	Lrp1	Lyn	Mif	Nfkb1	Ptprc	Rac1	Rag1	Rela
G	Relb	Stat3	Tap2	Tapbp	Tgfb1	Thbs1	Tlr1	Tlr2	Tlr7	Tlr9	Tnf	Tnfrsf11
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	SBM0757192	ENSMUST0000000342.2	Ccl11	ENSMUSG0000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
A02	SBM0687223	ENSMUST0000000194.3	Ccl12	ENSMUSG0000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
A03	SBM0699395	ENSMUST00000034232.2	Ccl17	ENSMUSG0000031780	chemokine (C-C motif) ligand 17 Source MGI Symbol Acc MGI 1329039
A04	SBM1085373	ENSMUST000000102957.5	Ccl19	ENSMUSG0000071005	chemokine (C-C motif) ligand 19 Source MGI Symbol Acc MGI 1346316
A05	SBM0836747	ENSMUST00000000193.5	Ccl2	ENSMUSG0000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
A06	SBM1058215	ENSMUST000000113437.8	Ccl20	ENSMUSG0000026166	chemokine (C-C motif) ligand 20 Source MGI Symbol Acc MGI 1329031
A07	SBM0794563	ENSMUST00000001008.5	Ccl3	ENSMUSG0000000982	chemokine (C-C motif) ligand 3 Source MGI Symbol Acc MGI 98260
A08	SBM0939661	ENSMUST000000019074.3	Ccl4	ENSMUSG0000018930	chemokine (C-C motif) ligand 4 Source MGI Symbol Acc MGI 98261
A09	SBM0703029	ENSMUST000000125015.1	Ccl5	ENSMUSG0000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
A10	SBM0998844	ENSMUST000000021011.2	Ccl7	ENSMUSG0000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
A11	SBM1067489	ENSMUST00000009329.2	Ccl8	ENSMUSG0000009185	chemokine (C-C motif) ligand 8 Source MGI Symbol Acc MGI 101878
A12	SBM1015405	ENSMUST000000026911.5	Ccr1	ENSMUSG0000025804	chemokine (C-C motif) receptor 1 Source MGI Symbol Acc MGI 104618
B01	SBM0796638	ENSMUST000000168841.2	Ccr2	ENSMUSG0000049103	chemokine (C-C motif) receptor 2 Source MGI Symbol Acc MGI 106185
B02	SBM1022292	ENSMUST000000039171.8	Ccr3	ENSMUSG0000035448	chemokine (C-C motif) receptor 3 Source MGI Symbol Acc MGI 104616
B03	SBM0964476	ENSMUST000000111442.2	Ccr5	ENSMUSG0000079227	chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182
B04	SBM0943888	ENSMUST000000180093.1	Ccr9	ENSMUSG0000029530	chemokine (C-C motif) receptor 9 Source MGI Symbol Acc MGI 1341902
B05	SBM1061431	ENSMUST000000142793.1	Cd1d1	ENSMUSG0000028076	CD1d1 antigen Source MGI Symbol Acc MGI 107674
B06	SBM1006219	ENSMUST000000194208.5	Cd1d2	ENSMUSG0000041750	CD1d2 antigen Source MGI Symbol Acc MGI 107675
B07	SBM1024086	ENSMUST000000029456.4	Cd2	ENSMUSG0000027863	CD2 antigen Source MGI Symbol Acc MGI 88320
B08	SBM0940548	ENSMUST000000207906.1	Cd209a	ENSMUSG0000031494	CD209a antigen Source MGI Symbol Acc MGI 2157942
B09	SBM0735565	ENSMUST000000027165.2	Cd28	ENSMUSG0000026012	CD28 antigen Source MGI Symbol Acc MGI 88327
B10	SBM0908900	ENSMUST000000206371.1	Cd33	ENSMUSG0000004609	CD33 antigen Source MGI Symbol Acc MGI 99440
B11	SBM0818786	ENSMUST000000170051.7	Cd36	ENSMUSG0000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
B12	SBM1064445	ENSMUST000000024044.6	Cd4	ENSMUSG0000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
C01	SBM0757957	ENSMUST000000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
C02	SBM0708134	ENSMUST000000033466.1	Cd40lg	ENSMUSG0000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
C03	SBM0860996	ENSMUST000000111194.7	Cd44	ENSMUSG0000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
C04	SBM0877871	ENSMUST000000097563.8	Cd74	ENSMUSG0000024610	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) Source MGI Symbol Acc MGI 96534
C05	SBM1043965	ENSMUST000000232409.1	Cd80	ENSMUSG0000075122	CD80 antigen Source MGI Symbol Acc MGI 101775
C06	SBM0889253	ENSMUST000000089620.10	Cd86	ENSMUSG0000022901	CD86 antigen Source MGI Symbol Acc MGI 101773
C07	SBM0809834	ENSMUST000000205054.1	Cd8a	ENSMUSG0000053977	CD8 antigen, alpha chain Source MGI Symbol Acc MGI 88346
C08	SBM1071094	ENSMUST000000030417.9	Cdc42	ENSMUSG0000006699	cell division cycle 42 Source MGI Symbol Acc MGI 106211
C09	SBM1034022	ENSMUST000000023829.7	Cdkn1a	ENSMUSG0000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
C10	SBM0970317	ENSMUST000000205391.1	Cebpa	ENSMUSG0000034957	CCAAT/enhancer binding protein (C/EBP), alpha Source MGI Symbol Acc MGI 99480
		ENSMUST000000		ENSMUSG00	C-type lectin domain family 4, member b2 Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0832982	088455.5	Clec4b2	000067767	3588267
C12	SBM0818557	ENSMUST00000025523.12	Csf1r	ENSMUSG0000024621	colony stimulating factor 1 receptor Source MGI Symbol Acc MGI 1339758
D01	SBM1080991	ENSMUST00000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
D02	SBM0998835	ENSMUST00000031327.8	Cxcl1	ENSMUSG0000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
D03	SBM0996179	ENSMUST000000118006.2	Cxcl10	ENSMUSG0000034855	chemokine (C-X-C motif) ligand 10 Source MGI Symbol Acc MGI 1352450
D04	SBM0703161	ENSMUST000000134244.1	Cxcl12	ENSMUSG0000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
D05	SBM0694289	ENSMUST00000075433.7	Cxcl2	ENSMUSG0000058427	chemokine (C-X-C motif) ligand 2 Source MGI Symbol Acc MGI 1340094
D06	SBM1001723	ENSMUST000000190313.1	Cxcr1	ENSMUSG0000048480	chemokine (C-X-C motif) receptor 1 Source MGI Symbol Acc MGI 2448715
D07	SBM0923037	ENSMUST00000052172.6	Cxcr4	ENSMUSG0000045382	chemokine (C-X-C motif) receptor 4 Source MGI Symbol Acc MGI 109563
D08	SBM0761323	ENSMUST000000136032.1	ErbB2	ENSMUSG0000062312	erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410
D09	SBM0856649	ENSMUST000000112472.3	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
D10	SBM0825377	ENSMUST000000193017.1	Fcεr1a	ENSMUSG0000005339	Fc receptor, IgE, high affinity I, alpha polypeptide Source MGI Symbol Acc MGI 95494
D11	SBM0844408	ENSMUST00000005678.5	Fcεr2a	ENSMUSG0000005540	Fc receptor, IgE, low affinity II, alpha polypeptide Source MGI Symbol Acc MGI 95497
D12	SBM0845170	ENSMUST00000029748.7	Fcγr1	ENSMUSG0000015947	Fc receptor, IgG, high affinity I Source MGI Symbol Acc MGI 95498
E01	SBM1077597	ENSMUST000000210642.1	Fcγr3	ENSMUSG0000003420	Fc receptor, IgG, alpha chain transporter Source MGI Symbol Acc MGI 103017
E02	SBM0730952	ENSMUST000000110549.2	Flt3	ENSMUSG0000042817	FMS-like tyrosine kinase 3 Source MGI Symbol Acc MGI 95559
E03	SBM0750431	ENSMUST000000211429.1	Flt3l	ENSMUSG0000110206	FMS-like tyrosine kinase 3 ligand Source MGI Symbol Acc MGI 95560
E04	SBM0743657	ENSMUST000000042121.10	H2-DMA	ENSMUSG0000037649	histocompatibility 2, class II, locus DMA Source MGI Symbol Acc MGI 95921
E05	SBM0806584	ENSMUST000000215003.1	Icam1	ENSMUSG0000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
E06	SBM0795564	ENSMUST000000106813.8	Icam2	ENSMUSG0000001029	intercellular adhesion molecule 2 Source MGI Symbol Acc MGI 96394
E07	SBM0903694	ENSMUST000000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
E08	SBM1004151	ENSMUST000000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
E09	SBM0806519	ENSMUST000000107816.3	Il12a	ENSMUSG0000027776	interleukin 12a Source MGI Symbol Acc MGI 96539
E10	SBM0957286	ENSMUST000000102796.9	Il12b	ENSMUSG0000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
E11	SBM0679719	ENSMUST000000001792.11	Il16	ENSMUSG0000001741	interleukin 16 Source MGI Symbol Acc MGI 1270855
E12	SBM0797059	ENSMUST000000029275.5	Il2	ENSMUSG0000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
F01	SBM0742623	ENSMUST000000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
F02	SBM0775971	ENSMUST000000123525.1	Irf7	ENSMUSG0000025498	interferon regulatory factor 7 Source MGI Symbol Acc MGI 1859212
F03	SBM0730179	ENSMUST000000156593.2	Itgam	ENSMUSG0000030786	integrin alpha M Source MGI Symbol Acc MGI 96607
F04	SBM0947975	ENSMUST000000131023.7	Itgb2	ENSMUSG0000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
F05	SBM1037164	ENSMUST000000125480.1	Lrp1	ENSMUSG0000040249	low density lipoprotein receptor-related protein 1 Source MGI Symbol Acc MGI 96828
F06	SBM0691599	ENSMUST000000103010.3	Lyn	ENSMUSG0000042228	LYN proto-oncogene, Src family tyrosine kinase Source MGI Symbol Acc MGI 96892
F07	SBM0802241	ENSMUST000000218267.1	Mif	ENSMUSG0000033307	macrophage migration inhibitory factor (glycosylation-inhibiting factor) Source MGI Symbol Acc MGI 96982
F08	SBM0841870	ENSMUST000000164430.6	Nfkb1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
F09	SBM0851018	ENSMUST000000183229.2	Ptpn22	ENSMUSG0000026395	protein tyrosine phosphatase, receptor type, C Source MGI Symbol Acc MGI 97810
F10	SBM0680406	ENSMUST000000145709.7	Rac1	ENSMUSG0000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0803807	ENSMUST00000078494.5	Rag1	ENSMUSG00000061311	recombination activating gene 1 Source MGI Symbol Acc MGI 97848
F12	SBM0937498	ENSMUST00000237361.1	Rela	ENSMUSG00000024927	v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290
G01	SBM1089153	ENSMUST00000094762.9	Relb	ENSMUSG0000002983	avian reticuloendotheliosis viral (v-rel) oncogene related B Source MGI Symbol Acc MGI 103289
G02	SBM0821931	ENSMUST00000103114.7	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G03	SBM0945253	ENSMUST00000025197.5	Tap2	ENSMUSG00000024339	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP) Source MGI Symbol Acc MGI 98484
G04	SBM0883471	ENSMUST00000172653.1	Tapbp	ENSMUSG00000024308	TAP binding protein Source MGI Symbol Acc MGI 1201689
G05	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G06	SBM0895247	ENSMUST00000142588.1	Thbs1	ENSMUSG00000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G07	SBM0864936	ENSMUST00000059349.5	Tlr1	ENSMUSG00000044827	toll-like receptor 1 Source MGI Symbol Acc MGI 1341295
G08	SBM0974490	ENSMUST00000029623.10	Tlr2	ENSMUSG00000027995	toll-like receptor 2 Source MGI Symbol Acc MGI 1346060
G09	SBM0901291	ENSMUST00000112164.1	Tlr7	ENSMUSG00000044583	toll-like receptor 7 Source MGI Symbol Acc MGI 2176882
G10	SBM0973468	ENSMUST00000062241.10	Tlr9	ENSMUSG00000045322	toll-like receptor 9 Source MGI Symbol Acc MGI 1932389
G11	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G12	SBM1225403	ENSMUST00000022592.7	Tnfrsf11	ENSMUSG00000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
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.

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