

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

Mouse Th17 Response

Cat. no. 249950 SBMM-073ZA

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	Ccl1	Ccl2	Ccl20	Ccl22	Ccl7	Ccr2	Ccr4	Ccr6	Cd2	Cd28	Cd34	Cd4
B	Cd40lg	Cd8a	Cebpb	Clec7a	Csf2	Csf3	Cx3cl1	Cxcl1	Cxcl12	Cxcl2	Cxcl5	Foxp3
C	Gata3	Icam1	Icos	Ifng	Il10	Il12b	Il12rb1	Il12rb2	Il13	Il15	Il17a	Il17c
D	Il17d	Il17f	Il17ra	Il17rb	Il17rc	Il17re	Il18	Il1b	Il1r1	Il2	Il21	Il22
E	Il23a	Il23r	Il25	Il27	Il3	Il4	Il5	Il6	Il6ra	Il7r	Il9	Ilr4
F	Isg20	Jak1	Jak2	Mmp3	Mmp9	Myd88	Nfatc2	Nfkb1	Rora	Rorc	Runn1	S1pr1
G	Socs1	Socs3	Stat3	Stat4	Stat5a	Stat6	Syk	Tbx21	Tgfb1	Tlr4	Tnf	Traf6
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	SBM0725984	ENSMUST00000108189.8	Ccl1	ENSMUSG0000020702	chemokine (C-C motif) ligand 1 Source MGI Symbol Acc MGI 98258
A02	SBM0836747	ENSMUST0000000193.5	Ccl2	ENSMUSG0000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
A03	SBM1058215	ENSMUST00000113437.8	Ccl20	ENSMUSG0000026166	chemokine (C-C motif) ligand 20 Source MGI Symbol Acc MGI 1329031
A04	SBM0685855	ENSMUST00000034231.3	Ccl22	ENSMUSG0000031779	chemokine (C-C motif) ligand 22 Source MGI Symbol Acc MGI 1306779
A05	SBM0998844	ENSMUST00000021011.2	Ccl7	ENSMUSG0000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
A06	SBM0796638	ENSMUST00000168841.2	Ccr2	ENSMUSG0000049103	chemokine (C-C motif) receptor 2 Source MGI Symbol Acc MGI 106185
A07	SBM0824531	ENSMUST00000054414.4	Ccr4	ENSMUSG0000047898	chemokine (C-C motif) receptor 4 Source MGI Symbol Acc MGI 107824
A08	SBM0879668	ENSMUST00000164411.9	Ccr6	ENSMUSG0000040899	chemokine (C-C motif) receptor 6 Source MGI Symbol Acc MGI 1333797
A09	SBM1024086	ENSMUST00000029456.4	Cd2	ENSMUSG0000027863	CD2 antigen Source MGI Symbol Acc MGI 88320
A10	SBM0735565	ENSMUST00000027165.2	Cd28	ENSMUSG0000026012	CD28 antigen Source MGI Symbol Acc MGI 88327
A11	SBM1031595	ENSMUST00000110815.8	Cd34	ENSMUSG0000016494	CD34 antigen Source MGI Symbol Acc MGI 88329
A12	SBM1064445	ENSMUST00000024044.6	Cd4	ENSMUSG0000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
B01	SBM0708134	ENSMUST00000033466.1	Cd40lg	ENSMUSG0000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
B02	SBM0809834	ENSMUST000000205054.1	Cd8a	ENSMUSG0000053977	CD8 antigen, alpha chain Source MGI Symbol Acc MGI 88346
B03	SBM0682459	ENSMUST00000070642.3	Cebpb	ENSMUSG0000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
B04	SBM0927974	ENSMUST00000184861.3	Clec7a	ENSMUSG0000079293	C-type lectin domain family 7, member a Source MGI Symbol Acc MGI 1861431
B05	SBM1080991	ENSMUST00000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B06	SBM0837472	ENSMUST00000038886.2	Csf3	ENSMUSG0000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
B07	SBM0783722	ENSMUST00000034230.6	Cx3cl1	ENSMUSG0000031778	chemokine (C-X3-C motif) ligand 1 Source MGI Symbol Acc MGI 1097153
B08	SBM0998835	ENSMUST00000031327.8	Cxcl1	ENSMUSG0000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
B09	SBM0703161	ENSMUST000000134244.1	Cxcl12	ENSMUSG0000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
B10	SBM0694289	ENSMUST00000075433.7	Cxcl2	ENSMUSG0000058427	chemokine (C-X-C motif) ligand 2 Source MGI Symbol Acc MGI 1340094
B11	SBM0760625	ENSMUST000000202380.1	Cxcl5	ENSMUSG0000029371	chemokine (C-X-C motif) ligand 5 Source MGI Symbol Acc MGI 1096868
B12	SBM0951877	ENSMUST000000234479.1	Foxp3	ENSMUSG0000039521	forkhead box P3 Source MGI Symbol Acc MGI 1891436
C01	SBM0782281	ENSMUST00000147533.1	Gata3	ENSMUSG0000015619	GATA binding protein 3 Source MGI Symbol Acc MGI 95663
C02	SBM0806584	ENSMUST000000215003.1	Icam1	ENSMUSG0000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
C03	SBM0702277	ENSMUST00000027162.11	Icos	ENSMUSG0000026009	inducible T cell co-stimulator Source MGI Symbol Acc MGI 1858745
C04	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C05	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
C06	SBM0957286	ENSMUST000000102796.9	Il12b	ENSMUSG000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
C07	SBM0894668	ENSMUST000000212657.1	Il12rb1	ENSMUSG0000000791	interleukin 12 receptor, beta 1 Source MGI Symbol Acc MGI 104579
C08	SBM0758729	ENSMUST000000117441.7	Il12rb2	ENSMUSG0000018341	interleukin 12 receptor, beta 2 Source MGI Symbol Acc MGI 1270861
C09	SBM0860496	ENSMUST00000020650.1	Il13	ENSMUSG0000020383	interleukin 13 Source MGI Symbol Acc MGI 96541
C10	SBM0737685	ENSMUST00000034148.6	Il15	ENSMUSG0000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1055424	027061.4	Il17a	000025929	interleukin 17A Source MGI Symbol Acc MGI 107364
C12	SBM1091760	ENSMUST00000050963.3	Il17c	ENSMUSG0000046108	interleukin 17C Source MGI Symbol Acc MGI 2446486
D01	SBM1055556	ENSMUST00000089494.5	Il17d	ENSMUSG0000050222	interleukin 17D Source MGI Symbol Acc MGI 2446510
D02	SBM0790079	ENSMUST00000039046.9	Il17f	ENSMUSG0000041872	interleukin 17F Source MGI Symbol Acc MGI 2676631
D03	SBM1004120	ENSMUST00000002976.4	Il17ra	ENSMUSG0000002897	interleukin 17 receptor A Source MGI Symbol Acc MGI 107399
D04	SBM0926842	ENSMUST000000136726.1	Il17rb	ENSMUSG0000015966	interleukin 17 receptor B Source MGI Symbol Acc MGI 1355292
D05	SBM0821438	ENSMUST00000058300.13	Il17rc	ENSMUSG0000030281	interleukin 17 receptor C Source MGI Symbol Acc MGI 2159336
D06	SBM0866544	ENSMUST000000204774.2	Il17re	ENSMUSG0000043088	interleukin 17 receptor E Source MGI Symbol Acc MGI 1889371
D07	SBM0953194	ENSMUST000000180021.1	Il18	ENSMUSG0000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
D08	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D09	SBM1086348	ENSMUST00000027241.10	Il1r1	ENSMUSG0000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D10	SBM0797059	ENSMUST00000029275.5	Il2	ENSMUSG0000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D11	SBM0747287	ENSMUST000000161015.1	Il21	ENSMUSG0000027718	interleukin 21 Source MGI Symbol Acc MGI 1890474
D12	SBM0998851	ENSMUST000000096691.4	Il22	ENSMUSG0000074695	interleukin 22 Source MGI Symbol Acc MGI 1355307
E01	SBM0691721	ENSMUST000000218109.1	Il23a	ENSMUSG0000025383	interleukin 23, alpha subunit p19 Source MGI Symbol Acc MGI 1932410
E02	SBM0693815	ENSMUST000000118364.1	Il23r	ENSMUSG0000049093	interleukin 23 receptor Source MGI Symbol Acc MGI 2181693
E03	SBM1081255	ENSMUST000000037863.5	Il25	ENSMUSG0000040770	interleukin 25 Source MGI Symbol Acc MGI 2155888
E04	SBM0706373	ENSMUST000000058429.5	Il27	ENSMUSG0000044701	interleukin 27 Source MGI Symbol Acc MGI 2384409
E05	SBM1089901	ENSMUST000000019058.5	Il3	ENSMUSG0000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
E06	SBM0926369	ENSMUST000000150568.7	Il4	ENSMUSG0000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
E07	SBM1034588	ENSMUST000000048605.2	Il5	ENSMUSG0000036117	interleukin 5 Source MGI Symbol Acc MGI 96557
E08	SBM0742623	ENSMUST000000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
E09	SBM0834938	ENSMUST000000197679.4	Il6ra	ENSMUSG0000027947	interleukin 6 receptor, alpha Source MGI Symbol Acc MGI 105304
E10	SBM0796500	ENSMUST000000003981.5	Il7r	ENSMUSG0000003882	interleukin 7 receptor Source MGI Symbol Acc MGI 96562
E11	SBM0847018	ENSMUST000000022019.3	Il9	ENSMUSG0000021538	interleukin 9 Source MGI Symbol Acc MGI 96563
E12	SBM0761311	ENSMUST000000021784.9	Ilrf4	ENSMUSG0000021356	interferon regulatory factor 4 Source MGI Symbol Acc MGI 1096873
F01	SBM0808139	ENSMUST000000121645.7	Ilsg20	ENSMUSG0000039236	interferon-stimulated protein Source MGI Symbol Acc MGI 1928895
F02	SBM0792684	ENSMUST000000155328.7	Jak1	ENSMUSG0000028530	Janus kinase 1 Source MGI Symbol Acc MGI 96628
F03	SBM0844988	ENSMUST000000065796.9	Jak2	ENSMUSG0000024789	Janus kinase 2 Source MGI Symbol Acc MGI 96629
F04	SBM1025609	ENSMUST000000034497.7	Mmp3	ENSMUSG0000043613	matrix metalloproteinase 3 Source MGI Symbol Acc MGI 97010
F05	SBM1089430	ENSMUST000000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
F06	SBM0986804	ENSMUST000000035092.6	Myd88	ENSMUSG0000032508	myeloid differentiation primary response gene 88 Source MGI Symbol Acc MGI 108005
F07	SBM0850906	ENSMUST000000099067.9	Nfatc2	ENSMUSG0000027544	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2 Source MGI Symbol Acc MGI 102463
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	SBM0775611	ENSMUST000000034766.13	Rora	ENSMUSG0000032238	RAR-related orphan receptor alpha Source MGI Symbol Acc MGI 104661
F10	SBM0832210	ENSMUST000000197040.4	Rorc	ENSMUSG0000028150	RAR-related orphan receptor gamma Source MGI Symbol Acc MGI 104856

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0812229	ENSMUST00000168195.7	Runx1	ENSMUSG0000022952	runt related transcription factor 1 Source MGI Symbol Acc MGI 99852
F12	SBM0772480	ENSMUST00000055676.3	S1pr1	ENSMUSG0000045092	sphingosine-1-phosphate receptor 1 Source MGI Symbol Acc MGI 1096355
G01	SBM0830785	ENSMUST00000229866.1	Socs1	ENSMUSG0000038037	suppressor of cytokine signaling 1 Source MGI Symbol Acc MGI 1354910
G02	SBM0977814	ENSMUST00000054002.3	Socs3	ENSMUSG0000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
G03	SBM0821931	ENSMUST00000103114.7	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G04	SBM0758089	ENSMUST00000187554.1	Stat4	ENSMUSG0000062939	signal transducer and activator of transcription 4 Source MGI Symbol Acc MGI 103062
G05	SBM0789938	ENSMUST00000138083.7	Stat5a	ENSMUSG0000004043	signal transducer and activator of transcription 5A Source MGI Symbol Acc MGI 103036
G06	SBM0912507	ENSMUST00000156231.1	Stat6	ENSMUSG0000002147	signal transducer and activator of transcription 6 Source MGI Symbol Acc MGI 103034
G07	SBM0702487	ENSMUST00000120135.7	Syk	ENSMUSG0000021457	spleen tyrosine kinase Source MGI Symbol Acc MGI 99515
G08	SBM1024821	ENSMUST00000001484.2	Tbx21	ENSMUSG0000001444	T-box 21 Source MGI Symbol Acc MGI 1888984
G09	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G10	SBM0745293	ENSMUST00000107365.2	Tlr4	ENSMUSG0000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G11	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G12	SBM1225398	ENSMUST00000004949.7	Traf6	ENSMUSG0000027164	TNF receptor-associated factor 6 Source MGI Symbol Acc MGI 108072
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	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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