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

Mouse Th1 & Th2 Responses

Cat. no. 249950 SBMM-034ZA

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	Bcl6	Ccl11	Ccl5	Ccl7	Ccr10	Ccr2	Ccr3	Ccr4	Ccr5	Cd27	Cd28	Cd4
B	Cd40	Cd40lg	Cd80	Cd86	Cebpb	Crebbp	Csf2	Ctla4	Cxcr3	Fasl	Gata3	Gfi1
C	Icos	Ifng	Il10	Il12b	Il12rb2	Il13	Il13ra1	Il15	Il18	Il18bp	Il18r1	Il1r1
D	Il1rl1	Il2	Il25	Il27	Il27ra	Il2ra	Il3	Il4	Il4ra	Il5	Il6	Il7
E	Il7r	Il9	Irf1	Irf4	Jak1	Jak2	Jak3	Junb	Lta	Maf	Mapk8	Mapk9
F	Nfatc1	Nfatc2	Nfkb1	Pcgf2	Ptprc	Sftpd	Socs1	Socs3	Socs5	Spp1	Stat1	Stat4
G	Stat6	Tbx21	Tgfb3	Tlr4	Tlr6	Tnf	Tnfrsf4	Tnfrsf8	Tnfsf4	Tyk2	Vegfa	Yy1
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	SBM1068298	ENSMUST00000023151.5	Bcl6	ENSMUSG00000022508	B cell leukemia/lymphoma 6 Source MGI Symbol Acc MGI 107187
A02	SBM0757192	ENSMUST00000000342.2	Ccl11	ENSMUSG00000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
A03	SBM0703029	ENSMUST00000125015.1	Ccl5	ENSMUSG00000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
A04	SBM0998844	ENSMUST00000021011.2	Ccl7	ENSMUSG00000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
A05	SBM0858133	ENSMUST00000062759.3	Ccr10	ENSMUSG00000044052	chemokine (C-C motif) receptor 10 Source MGI Symbol Acc MGI 1096320
A06	SBM0796638	ENSMUST00000168841.2	Ccr2	ENSMUSG00000049103	chemokine (C-C motif) receptor 2 Source MGI Symbol Acc MGI 106185
A07	SBM1022292	ENSMUST00000039171.8	Ccr3	ENSMUSG00000035448	chemokine (C-C motif) receptor 3 Source MGI Symbol Acc MGI 104616
A08	SBM0824531	ENSMUST00000054414.4	Ccr4	ENSMUSG00000047898	chemokine (C-C motif) receptor 4 Source MGI Symbol Acc MGI 107824
A09	SBM0964476	ENSMUST00000111442.2	Ccr5	ENSMUSG00000079227	chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182
A10	SBM1093198	ENSMUST00000032486.12	Cd27	ENSMUSG00000030336	CD27 antigen Source MGI Symbol Acc MGI 88326
A11	SBM0735565	ENSMUST00000027165.2	Cd28	ENSMUSG00000026012	CD28 antigen Source MGI Symbol Acc MGI 88327
A12	SBM1064445	ENSMUST00000024044.6	Cd4	ENSMUSG00000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
B01	SBM0757957	ENSMUST00000073707.8	Cd40	ENSMUSG00000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B02	SBM0708134	ENSMUST00000033466.1	Cd40lg	ENSMUSG00000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
B03	SBM1043965	ENSMUST00000232409.1	Cd80	ENSMUSG00000075122	CD80 antigen Source MGI Symbol Acc MGI 101775
B04	SBM0889253	ENSMUST00000089620.10	Cd86	ENSMUSG00000022901	CD86 antigen Source MGI Symbol Acc MGI 101773
B05	SBM0682459	ENSMUST00000070642.3	Cebpb	ENSMUSG00000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
B06	SBM0926551	ENSMUST00000205765.1	Crebbp	ENSMUSG00000022521	CREB binding protein Source MGI Symbol Acc MGI 1098280
B07	SBM1080991	ENSMUST00000019060.5	Csf2	ENSMUSG00000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B08	SBM0711116	ENSMUST00000124816.1	Ctla4	ENSMUSG00000026011	cytotoxic T-lymphocyte-associated protein 4 Source MGI Symbol Acc MGI 88556
B09	SBM0682187	ENSMUST00000056614.6	Cxcr3	ENSMUSG00000050232	chemokine (C-X-C motif) receptor 3 Source MGI Symbol Acc MGI 1277207
B10	SBM0967876	ENSMUST00000000834.3	Fasl	ENSMUSG00000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
B11	SBM0782281	ENSMUST00000147533.1	Gata3	ENSMUSG00000015619	GATA binding protein 3 Source MGI Symbol Acc MGI 95663
B12	SBM0999424	ENSMUST00000065478.11	Gfi1	ENSMUSG00000029275	growth factor independent 1 transcription repressor Source MGI Symbol Acc MGI 103170
C01	SBM0702277	ENSMUST00000027162.11	Icos	ENSMUSG00000026009	inducible T cell co-stimulator Source MGI Symbol Acc MGI 1858745
C02	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG00000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C03	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG00000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
C04	SBM0957286	ENSMUST00000102796.9	Il12b	ENSMUSG00000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
C05	SBM0758729	ENSMUST00000117441.7	Il12rb2	ENSMUSG00000018341	interleukin 12 receptor, beta 2 Source MGI Symbol Acc MGI 1270861
C06	SBM0860496	ENSMUST00000020650.1	Il13	ENSMUSG00000020383	interleukin 13 Source MGI Symbol Acc MGI 96541
C07	SBM0817568	ENSMUST00000033418.7	Il13ra1	ENSMUSG00000017057	interleukin 13 receptor, alpha 1 Source MGI Symbol Acc MGI 105052
C08	SBM0737685	ENSMUST00000034148.6	Il15	ENSMUSG00000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
C09	SBM0953194	ENSMUST00000180021.1	Il18	ENSMUSG00000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
C10	SBM0943354	ENSMUST00000209368.1	Il18bp	ENSMUSG00000070427	interleukin 18 binding protein Source MGI Symbol Acc MGI 1333800
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0709309	167723.7	Il18r1	000026070	interleukin 18 receptor 1 Source MGI Symbol Acc MGI 105383
C12	SBM1086348	ENSMUST00000 027241.10	Il1r1	ENSMUSG00 000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D01	SBM0977445	ENSMUST00000 174335.7	Il1rl1	ENSMUSG00 000026069	interleukin 1 receptor-like 1 Source MGI Symbol Acc MGI 98427
D02	SBM0797059	ENSMUST00000 029275.5	Il2	ENSMUSG00 000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D03	SBM1081255	ENSMUST00000 037863.5	Il25	ENSMUSG00 000040770	interleukin 25 Source MGI Symbol Acc MGI 2155888
D04	SBM0706373	ENSMUST00000 058429.5	Il27	ENSMUSG00 000044701	interleukin 27 Source MGI Symbol Acc MGI 2384409
D05	SBM0689065	ENSMUST00000 210245.1	Il27ra	ENSMUSG00 000005465	interleukin 27 receptor, alpha Source MGI Symbol Acc MGI 1355318
D06	SBM1067326	ENSMUST00000 028111.5	Il2ra	ENSMUSG00 000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
D07	SBM1089901	ENSMUST00000 019058.5	Il3	ENSMUSG00 000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
D08	SBM0926369	ENSMUST00000 150568.7	Il4	ENSMUSG00 000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
D09	SBM0691649	ENSMUST00000 206681.1	Il4ra	ENSMUSG00 000030748	interleukin 4 receptor, alpha Source MGI Symbol Acc MGI 105367
D10	SBM1034588	ENSMUST00000 048605.2	Il5	ENSMUSG00 000036117	interleukin 5 Source MGI Symbol Acc MGI 96557
D11	SBM0742623	ENSMUST00000 026845.11	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D12	SBM1037504	ENSMUST00000 168269.7	Il7	ENSMUSG00 000040329	interleukin 7 Source MGI Symbol Acc MGI 96561
E01	SBM0796500	ENSMUST00000 003981.5	Il7r	ENSMUSG00 000003882	interleukin 7 receptor Source MGI Symbol Acc MGI 96562
E02	SBM0847018	ENSMUST00000 022019.3	Il9	ENSMUSG00 000021538	interleukin 9 Source MGI Symbol Acc MGI 96563
E03	SBM1091850	ENSMUST00000 138913.7	Irf1	ENSMUSG00 000018899	interferon regulatory factor 1 Source MGI Symbol Acc MGI 96590
E04	SBM0761311	ENSMUST00000 021784.9	Irf4	ENSMUSG00 000021356	interferon regulatory factor 4 Source MGI Symbol Acc MGI 1096873
E05	SBM0792684	ENSMUST00000 155328.7	Jak1	ENSMUSG00 000028530	Janus kinase 1 Source MGI Symbol Acc MGI 96628
E06	SBM0844988	ENSMUST00000 065796.9	Jak2	ENSMUSG00 000024789	Janus kinase 2 Source MGI Symbol Acc MGI 96629
E07	SBM0924872	ENSMUST00000 051995.13	Jak3	ENSMUSG00 000031805	Janus kinase 3 Source MGI Symbol Acc MGI 99928
E08	SBM0879318	ENSMUST00000 064922.6	Junb	ENSMUSG00 000052837	jun B proto-oncogene Source MGI Symbol Acc MGI 96647
E09	SBM0790437	ENSMUST00000 025266.5	Lta	ENSMUSG00 000024402	lymphotoxin A Source MGI Symbol Acc MGI 104797
E10	SBM0794374	ENSMUST00000 069009.6	Maf	ENSMUSG00 000055435	avian musculoaponeurotic fibrosarcoma oncogene homolog Source MGI Symbol Acc MGI 96909
E11	SBM0984642	ENSMUST00000 132379.1	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
E12	SBM1025510	ENSMUST00000 144857.7	Mapk9	ENSMUSG00 000020366	mitogen-activated protein kinase 9 Source MGI Symbol Acc MGI 1346862
F01	SBM1038763	ENSMUST00000 078049.11	Nfatc1	ENSMUSG00 000033016	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1 Source MGI Symbol Acc MGI 102469
F02	SBM0850906	ENSMUST00000 099067.9	Nfatc2	ENSMUSG00 000027544	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2 Source MGI Symbol Acc MGI 102463
F03	SBM0841870	ENSMUST00000 164430.6	Nfkb1	ENSMUSG00 000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
F04	SBM0879579	ENSMUST00000 103149.8	Pcgf2	ENSMUSG00 000018537	polycomb group ring finger 2 Source MGI Symbol Acc MGI 99161
F05	SBM0851018	ENSMUST00000 183229.2	Ptprc	ENSMUSG00 000026395	protein tyrosine phosphatase, receptor type, C Source MGI Symbol Acc MGI 97810
F06	SBM0834442	ENSMUST00000 077136.4	Sftpd	ENSMUSG00 000021795	surfactant associated protein D Source MGI Symbol Acc MGI 109515
F07	SBM0830785	ENSMUST00000 229866.1	Socs1	ENSMUSG00 000038037	suppressor of cytokine signaling 1 Source MGI Symbol Acc MGI 1354910
F08	SBM0977814	ENSMUST00000 054002.3	Socs3	ENSMUSG00 000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
F09	SBM0834297	ENSMUST00000 041369.7	Socs5	ENSMUSG00 000037104	suppressor of cytokine signaling 5 Source MGI Symbol Acc MGI 2385459
F10	SBM0826950	ENSMUST00000 086833.12	Spp1	ENSMUSG00 000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0954168	ENSMUST00000070968.13	Stat1	ENSMUSG00000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
F12	SBM0758089	ENSMUST00000187554.1	Stat4	ENSMUSG00000062939	signal transducer and activator of transcription 4 Source MGI Symbol Acc MGI 103062
G01	SBM0912507	ENSMUST00000156231.1	Stat6	ENSMUSG00000002147	signal transducer and activator of transcription 6 Source MGI Symbol Acc MGI 103034
G02	SBM1024821	ENSMUST00000001484.2	Tbx21	ENSMUSG00000001444	T-box 21 Source MGI Symbol Acc MGI 1888984
G03	SBM1022458	ENSMUST00000003687.7	Tgfb3	ENSMUSG00000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G04	SBM0745293	ENSMUST00000107365.2	Tlr4	ENSMUSG00000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G05	SBM0968629	ENSMUST00000201307.1	Tlr6	ENSMUSG00000051498	toll-like receptor 6 Source MGI Symbol Acc MGI 1341296
G06	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G07	SBM0900193	ENSMUST00000143576.1	Tnfrsf4	ENSMUSG00000029075	tumor necrosis factor receptor superfamily, member 4 Source MGI Symbol Acc MGI 104512
G08	SBM0814576	ENSMUST00000123027.1	Tnfrsf8	ENSMUSG00000028602	tumor necrosis factor receptor superfamily, member 8 Source MGI Symbol Acc MGI 99908
G09	SBM1089254	ENSMUST00000028024.4	Tnfsf4	ENSMUSG00000026700	tumor necrosis factor (ligand) superfamily, member 4 Source MGI Symbol Acc MGI 104511
G10	SBM0927410	ENSMUST00000214454.1	Tyk2	ENSMUSG00000032175	tyrosine kinase 2 Source MGI Symbol Acc MGI 1929470
G11	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG00000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	SBM0955085	ENSMUST00000126912.1	Yy1	ENSMUSG00000021264	YY1 transcription factor Source MGI Symbol Acc MGI 99150
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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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