

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

## Mouse IL6/STAT3 Signaling Pathway

Cat. no. 249950 SBMM-160ZA

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](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Akt1	Bax	Bcl2	Ccl12	Ccl3	Ccl4	Ccl5	Cd4	Cd40	Cd40lg	Cd80	Cdc25a
B	Cdkn1a	Cebpd	Csf1	Csf2	Csf3	Csf3r	Cxcl10	Cxcl12	Cxcr4	Egrfr	Fas	Fasl
C	Hgf	Ikbkb	Il10	Il11	Il12a	Il13	Il15	Il17a	Il18	Il18r1	Il1a	Il1b
D	Il1rl	Il2	Il21	Il22	Il23a	Il24	Il2ra	Il3	Il4	Il5	Il6	Il6ra
E	Il6st	Il7	Il9	Jak2	Jak3	Lif	Lifr	Lta	Map2k1	Mapk1	Mapk14	Mapk3
F	Mapk8	Met	Mtor	Myc	NRkb1	Nfkbia	Osm	Osmr	Pias3	Pim1	Rac1	Rela
G	Socs1	Socs3	Src	Stat3	Tlr4	Tnf	Tnfrsf10b	Tnfrsf1a	Tnfrsf1b	Tnfrsf10	Tnfrsf11	Tyk2
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	PPC	PPC	PPC	PPC

## Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM1020452	ENSMUST00000 144550.8	Akt1	ENSMUSG00 000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A02	SBM0740166	ENSMUST00000 211615.1	Bax	ENSMUSG00 000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A03	SBM0876340	ENSMUST00000 189999.1	Bcl2	ENSMUSG00 000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A04	SBM0687223	ENSMUST00000 000194.3	Ccl12	ENSMUSG00 000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
A05	SBM0794563	ENSMUST00000 001008.5	Cd3	ENSMUSG00 000000982	chemokine (C-C motif) ligand 3 Source MGI Symbol Acc MGI 98260
A06	SBM0939661	ENSMUST00000 019074.3	Cd4	ENSMUSG00 000018930	chemokine (C-C motif) ligand 4 Source MGI Symbol Acc MGI 98261
A07	SBM0703029	ENSMUST00000 125015.1	Cd5	ENSMUSG00 000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
A08	SBM1064445	ENSMUST00000 024044.6	Cd4	ENSMUSG00 000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
A09	SBM0757957	ENSMUST00000 073707.8	Cd40	ENSMUSG00 000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
A10	SBM0708134	ENSMUST00000 033466.1	Cd40lg	ENSMUSG00 000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
A11	SBM1043965	ENSMUST00000 232409.1	Cd80	ENSMUSG00 000075122	CD80 antigen Source MGI Symbol Acc MGI 101775
A12	SBM0768186	ENSMUST00000 199787.2	Cdc25a	ENSMUSG00 000032477	cell division cycle 25A Source MGI Symbol Acc MGI 103198
B01	SBM1034022	ENSMUST00000 023829.7	Cdkn1a	ENSMUSG00 000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
B02	SBM0962498	ENSMUST00000 096232.5	Cebpd	ENSMUSG00 000071637	CCAAT/enhancer binding protein (C/EBP), delta Source MGI Symbol Acc MGI 103573
B03	SBM0903322	ENSMUST00000 155557.1	Csf1	ENSMUSG00 000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B04	SBM1080991	ENSMUST00000 019060.5	Csf2	ENSMUSG00 000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B05	SBM0837472	ENSMUST00000 038886.2	Csf3	ENSMUSG00 000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
B06	SBM0769548	ENSMUST00000 140426.1	Csf3r	ENSMUSG00 000028859	colony stimulating factor 3 receptor (granulocyte) Source MGI Symbol Acc MGI 1339755
B07	SBM0996179	ENSMUST00000 118006.2	Cxcl10	ENSMUSG00 000034855	chemokine (C-X-C motif) ligand 10 Source MGI Symbol Acc MGI 1352450
B08	SBM0703161	ENSMUST00000 134244.1	Cxcl12	ENSMUSG00 000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
B09	SBM0923037	ENSMUST00000 052172.6	Cxcr4	ENSMUSG00 000045382	chemokine (C-X-C motif) receptor 4 Source MGI Symbol Acc MGI 109563
B10	SBM1033270	ENSMUST00000 020329.12	Egfr	ENSMUSG00 000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
B11	SBM0856649	ENSMUST00000 112472.3	Fas	ENSMUSG00 000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
B12	SBM0967876	ENSMUST00000 000834.3	Fasl	ENSMUSG00 000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
C01	SBM0858725	ENSMUST00000 200189.4	Hgf	ENSMUSG00 000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
C02	SBM0683235	ENSMUST00000 144583.7	Ikbkb	ENSMUSG00 000031537	inhibitor of kappaB kinase beta Source MGI Symbol Acc MGI 1338071
C03	SBM1004151	ENSMUST00000 016673.5	Il10	ENSMUSG00 000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
C04	SBM0752881	ENSMUST00000 094892.11	Il11	ENSMUSG00 000004371	interleukin 11 Source MGI Symbol Acc MGI 107613
C05	SBM0806519	ENSMUST00000 107816.3	Il12a	ENSMUSG00 000027776	interleukin 12a Source MGI Symbol Acc MGI 96539
C06	SBM0860496	ENSMUST00000 020650.1	Il13	ENSMUSG00 000020383	interleukin 13 Source MGI Symbol Acc MGI 96541
C07	SBM0737685	ENSMUST00000 034148.6	Il15	ENSMUSG00 000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
C08	SBM1055424	ENSMUST00000 027061.4	Il17a	ENSMUSG00 000025929	interleukin 17A Source MGI Symbol Acc MGI 107364
C09	SBM0953194	ENSMUST00000 180021.1	Il18	ENSMUSG00 000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
C10	SBM0709309	ENSMUST00000 167723.7	Il18r1	ENSMUSG00 000026070	interleukin 18 receptor 1 Source MGI Symbol Acc MGI 105383
		ENSMUST00000		ENSMUSG00	

<b>Position</b>	<b>Assay</b>	<b>Name</b>	<b>Symbol</b>	<b>Ensembl ID</b>	<b>Description</b>
C11	SBM1007460	028882.1	Il1a	ENSMUST00000028881.13	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
C12	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D01	SBM1086348	ENSMUST000000027241.10	Il1r1	ENSMUSG0000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D02	SBM0797059	ENSMUST000000029275.5	Il2	ENSMUSG0000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D03	SBM0747287	ENSMUST000000161015.1	Il21	ENSMUSG0000027718	interleukin 21 Source MGI Symbol Acc MGI 1890474
D04	SBM0998851	ENSMUST000000096691.4	Il22	ENSMUSG0000074695	interleukin 22 Source MGI Symbol Acc MGI 1355307
D05	SBM0691721	ENSMUST000000218109.1	Il23a	ENSMUSG0000025383	interleukin 23, alpha subunit p19 Source MGI Symbol Acc MGI 1932410
D06	SBM0705042	ENSMUST000000191279.1	Il24	ENSMUSG0000026420	interleukin 24 Source MGI Symbol Acc MGI 2135548
D07	SBM1067326	ENSMUST000000028111.5	Il2ra	ENSMUSG0000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
D08	SBM1089901	ENSMUST000000019058.5	Il3	ENSMUSG0000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
D09	SBM0926369	ENSMUST0000000150568.7	Il4	ENSMUSG0000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
D10	SBM1034588	ENSMUST000000048605.2	Il5	ENSMUSG0000036117	interleukin 5 Source MGI Symbol Acc MGI 96557
D11	SBM0742623	ENSMUST000000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D12	SBM0834938	ENSMUST0000000197679.4	Il6ra	ENSMUSG0000027947	interleukin 6 receptor, alpha Source MGI Symbol Acc MGI 105304
E01	SBM0823451	ENSMUST0000000183829.7	Il6st	ENSMUSG0000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
E02	SBM1037504	ENSMUST0000000168269.7	Il7	ENSMUSG0000040329	interleukin 7 Source MGI Symbol Acc MGI 96561
E03	SBM0847018	ENSMUST000000022019.3	Il9	ENSMUSG0000021538	interleukin 9 Source MGI Symbol Acc MGI 96563
E04	SBM0844988	ENSMUST000000065796.9	Jak2	ENSMUSG0000024789	Janus kinase 2 Source MGI Symbol Acc MGI 96629
E05	SBM0924872	ENSMUST000000051995.13	Jak3	ENSMUSG0000031805	Janus kinase 3 Source MGI Symbol Acc MGI 99928
E06	SBM0873612	ENSMUST000000066283.11	Lif	ENSMUSG0000034394	leukemia inhibitory factor Source MGI Symbol Acc MGI 96787
E07	SBM0699496	ENSMUST000000067190.11	Lifr	ENSMUSG0000054263	LIF receptor alpha Source MGI Symbol Acc MGI 96788
E08	SBM0790437	ENSMUST000000025266.5	Lta	ENSMUSG0000024402	lymphotoxin A Source MGI Symbol Acc MGI 104797
E09	SBM1025120	ENSMUST000000005066.8	Map2k1	ENSMUSG000004936	mitogen-activated protein kinase kinase 1 Source MGI Symbol Acc MGI 1346866
E10	SBM0800614	ENSMUST0000000231821.1	Mapk1	ENSMUSG0000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
E11	SBM0683456	ENSMUST0000000114754.7	Mapk14	ENSMUSG0000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
E12	SBM0856900	ENSMUST0000000206272.1	Mapk3	ENSMUSG0000063065	mitogen-activated protein kinase 3 Source MGI Symbol Acc MGI 1346859
F01	SBM0984642	ENSMUST0000000132379.1	Mapk8	ENSMUSG0000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
F02	SBM1055926	ENSMUST0000000115442.7	Met	ENSMUSG0000009376	met proto-oncogene Source MGI Symbol Acc MGI 96969
F03	SBM1220565	ENSMUST0000000103221.9	Mtor	ENSMUSG0000028991	mechanistic target of rapamycin kinase Source MGI Symbol Acc MGI 1928394
F04	SBM0987162	ENSMUST0000000159338.1	Myc	ENSMUSG000002346	myelomatosis oncogene Source MGI Symbol Acc MGI 97250
F05	SBM0841870	ENSMUST0000000164430.6	Nfkbl1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
F06	SBM0696431	ENSMUST000000021413.8	Nfkbia	ENSMUSG0000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
F07	SBM0824436	ENSMUST0000000131764.1	Osm	ENSMUSG0000058755	oncostatin M Source MGI Symbol Acc MGI 104749
F08	SBM0732075	ENSMUST0000000177478.1	Osmr	ENSMUSG0000022146	oncostatin M receptor Source MGI Symbol Acc MGI 1330819
F09	SBM0934449	ENSMUST000000064900.15	Pias3	ENSMUSG0000028101	protein inhibitor of activated STAT 3 Source MGI Symbol Acc MGI 1913126
F10	SBM0769349	ENSMUST0000000234665.1	Pim1	ENSMUSG0000024014	proviral integration site 1 Source MGI Symbol Acc MGI 97584

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0680406	ENSMUST00000 145709.7	Rac1	ENSMUSG00 000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845
F12	SBM0937498	ENSMUST00000 237361.1	Rela	ENSMUSG00 000024927	v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290
G01	SBM0830785	ENSMUST00000 229866.1	Socs1	ENSMUSG00 000038037	suppressor of cytokine signaling 1 Source MGI Symbol Acc MGI 1354910
G02	SBM0977814	ENSMUST00000 054002.3	Socs3	ENSMUSG00 000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
G03	SBM1051097	ENSMUST00000 029175.13	Src	ENSMUSG00 000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
G04	SBM0821931	ENSMUST00000 103114.7	Stat3	ENSMUSG00 000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G05	SBM0745293	ENSMUST00000 107365.2	Tlr4	ENSMUSG00 000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G06	SBM0788439	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G07	SBM0809431	ENSMUST00000 224533.1	Tnfrsf10b	ENSMUSG00 000022074	tumor necrosis factor receptor superfamily, member 10b Source MGI Symbol Acc MGI 1341090
G08	SBM0837100	ENSMUST00000 134803.1	Tnfrsf1a	ENSMUSG00 000030341	tumor necrosis factor receptor superfamily, member 1a Source MGI Symbol Acc MGI 1314884
G09	SBM0979488	ENSMUST00000 143055.1	Tnfrsf1b	ENSMUSG00 000028599	tumor necrosis factor receptor superfamily, member 1b Source MGI Symbol Acc MGI 1314883
G10	SBM0969669	ENSMUST00000 046383.11	Tnfsf10	ENSMUSG00 000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G11	SBM1225403	ENSMUST00000 022592.7	Tnfsf11	ENSMUSG00 000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
G12	SBM0927410	ENSMUST00000 214454.1	Tyk2	ENSMUSG00 000032175	tyrosine kinase 2 Source MGI Symbol Acc MGI 1929470
H01	SBM1220560	ENSMUST00000 100497.10	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	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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