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

Mouse Antibacterial Response

Cat. no. 249950 SBMM-148ZA

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	Akt1	Apcs	Birc3	Bpi	Camp	Card6	Card9	Casp1	Casp8	Ccl3	Ccl4	Ccl5
B	Cd14	Chuk	Crp	Ctsg	Cxcl1	Cxcl3	Dmbt1	Fadd	Hsp90aa1	Ifna9	Ifnb1	Ikbkb
C	Il12a	Il12b	Il18	Il1b	Il6	Irak1	Irak3	Irf5	Irf7	Jun	Lbp	Lcn2
D	Ltf	Ly96	Lyz2	Map2k1	Map2k3	Map2k4	Map3k7	Mapk1	Mapk14	Mapk3	Mapk8	Mefv
E	Mpo	Myd88	Naip1	Nfkb1	Nfkbia	Nlrc4	Nlrp1a	Nlrp3	Nod1	Nod2	Pik3ca	Prtn3
F	Pstpip1	Pycard	Rac1	Rela	Ripk1	Ripk2	Slc11a1	Slpi	Sugt1	Ticam1	Ticam2	Tirap
G	Tlr1	Tlr2	Tlr4	Tlr5	Tlr6	Tlr9	Tnf	Tnfrsf1a	Tollip	Traf6	Xiap	Zbp1
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	SBM1020452	ENSMUST00000144550.8	Akt1	ENSMUSG00000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A02	SBM0730529	ENSMUST00000027824.6	Apcs	ENSMUSG00000026542	serum amyloid P-component Source MGI Symbol Acc MGI 98229
A03	SBM0873926	ENSMUST00000115672.1	Birc3	ENSMUSG00000032000	baculoviral IAP repeat-containing 3 Source MGI Symbol Acc MGI 1197007
A04	SBM0901267	ENSMUST00000065039.2	Bpi	ENSMUSG00000052922	bactericidal permeablility increasing protein Source MGI Symbol Acc MGI 3045315
A05	SBM1078418	ENSMUST00000112022.4	Camp	ENSMUSG00000038357	cathelicidin antimicrobial peptide Source MGI Symbol Acc MGI 108443
A06	SBM0822887	ENSMUST00000141020.1	Card6	ENSMUSG00000041849	caspase recruitment domain family, member 6 Source MGI Symbol Acc MGI 3032959
A07	SBM0745387	ENSMUST00000028294.6	Card9	ENSMUSG00000026928	caspase recruitment domain family, member 9 Source MGI Symbol Acc MGI 2685628
A08	SBM0862549	ENSMUST00000027015.5	Casp1	ENSMUSG00000025888	caspase 1 Source MGI Symbol Acc MGI 96544
A09	SBM0772558	ENSMUST00000027189.14	Casp8	ENSMUSG00000026029	caspase 8 Source MGI Symbol Acc MGI 1261423
A10	SBM0794563	ENSMUST00000001008.5	Ccl3	ENSMUSG00000000982	chemokine (C-C motif) ligand 3 Source MGI Symbol Acc MGI 98260
A11	SBM0939661	ENSMUST00000019074.3	Ccl4	ENSMUSG00000018930	chemokine (C-C motif) ligand 4 Source MGI Symbol Acc MGI 98261
A12	SBM0703029	ENSMUST00000125015.1	Ccl5	ENSMUSG00000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
B01	SBM0904854	ENSMUST00000061829.7	Cd14	ENSMUSG00000051439	CD14 antigen Source MGI Symbol Acc MGI 88318
B02	SBM1034080	ENSMUST00000026217.10	Chuk	ENSMUSG00000025199	conserved helix-loop-helix ubiquitous kinase Source MGI Symbol Acc MGI 99484
B03	SBM0905444	ENSMUST00000194251.1	Crp	ENSMUSG00000037942	C-reactive protein, pentraxin-related Source MGI Symbol Acc MGI 88512
B04	SBM0791036	ENSMUST00000225312.1	Ctsg	ENSMUSG00000040314	cathepsin G Source MGI Symbol Acc MGI 88563
B05	SBM0998835	ENSMUST00000031327.8	Cxcl1	ENSMUSG00000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
B06	SBM0747228	ENSMUST00000201840.1	Cxcl3	ENSMUSG00000029379	chemokine (C-X-C motif) ligand 3 Source MGI Symbol Acc MGI 3037818
B07	SBM0833606	ENSMUST00000084509.4	Dmbt1	ENSMUSG00000047517	deleted in malignant brain tumors 1 Source MGI Symbol Acc MGI 106210
B08	SBM0895464	ENSMUST00000033394.7	Fadd	ENSMUSG00000031077	Fas (TNFRSF6)-associated via death domain Source MGI Symbol Acc MGI 109324
B09	SBM0939146	ENSMUST00000155242.7	Hsp90aa1	ENSMUSG00000021270	heat shock protein 90, alpha (cytosolic), class A member 1 Source MGI Symbol Acc MGI 96250
B10	SBM1062122	ENSMUST00000102807.1	Ifna9	ENSMUSG00000095270	interferon alpha 9 Source MGI Symbol Acc MGI 107659
B11	SBM0872658	ENSMUST00000055671.4	Ifnb1	ENSMUSG00000048806	interferon beta 1, fibroblast Source MGI Symbol Acc MGI 107657
B12	SBM0683235	ENSMUST00000144583.7	Ikbkb	ENSMUSG00000031537	inhibitor of kappaB kinase beta Source MGI Symbol Acc MGI 1338071
C01	SBM0806519	ENSMUST00000107816.3	Il12a	ENSMUSG00000027776	interleukin 12a Source MGI Symbol Acc MGI 96539
C02	SBM0957286	ENSMUST00000102796.9	Il12b	ENSMUSG00000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
C03	SBM0953194	ENSMUST00000180021.1	Il18	ENSMUSG00000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
C04	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG00000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
C05	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG00000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
C06	SBM0933124	ENSMUST00000148706.7	Irak1	ENSMUSG00000031392	interleukin-1 receptor-associated kinase 1 Source MGI Symbol Acc MGI 107420
C07	SBM0779963	ENSMUST00000143100.1	Irak3	ENSMUSG00000020227	interleukin-1 receptor-associated kinase 3 Source MGI Symbol Acc MGI 1921164
C08	SBM0896474	ENSMUST00000163511.6	Irf5	ENSMUSG00000029771	interferon regulatory factor 5 Source MGI Symbol Acc MGI 1350924
C09	SBM0775971	ENSMUST00000123525.1	Irf7	ENSMUSG00000025498	interferon regulatory factor 7 Source MGI Symbol Acc MGI 1859212
C10	SBM1045409	ENSMUST00000107094.1	Jun	ENSMUSG00000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0691558	146600.1	Lbp	000016024	lipopolysaccharide binding protein Source MGI Symbol Acc MGI 1098776
C12	SBM0689303	ENSMUST00000 050785.13	Lcn2	ENSMUSG00 000026822	lipocalin 2 Source MGI Symbol Acc MGI 96757
D01	SBM0738797	ENSMUST00000 198233.1	Ltf	ENSMUSG00 000032496	lactotransferrin Source MGI Symbol Acc MGI 96837
D02	SBM0966348	ENSMUST00000 191260.1	Ly96	ENSMUSG00 000025779	lymphocyte antigen 96 Source MGI Symbol Acc MGI 1341909
D03	SBM0672708	ENSMUST00000 092163.8	Lyz2	ENSMUSG00 000069516	lysozyme 2 Source MGI Symbol Acc MGI 96897
D04	SBM1025120	ENSMUST00000 005066.8	Map2k1	ENSMUSG00 000004936	mitogen-activated protein kinase kinase 1 Source MGI Symbol Acc MGI 1346866
D05	SBM0905391	ENSMUST00000 130269.1	Map2k3	ENSMUSG00 000018932	mitogen-activated protein kinase kinase 3 Source MGI Symbol Acc MGI 1346868
D06	SBM1084723	ENSMUST00000 046963.9	Map2k4	ENSMUSG00 000033352	mitogen-activated protein kinase kinase 4 Source MGI Symbol Acc MGI 1346869
D07	SBM0833481	ENSMUST00000 037607.10	Map3k7	ENSMUSG00 000028284	mitogen-activated protein kinase kinase kinase 7 Source MGI Symbol Acc MGI 1346877
D08	SBM0800614	ENSMUST00000 231821.1	Mapk1	ENSMUSG00 000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D09	SBM0683456	ENSMUST00000 114754.7	Mapk14	ENSMUSG00 000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
D10	SBM0856900	ENSMUST00000 206272.1	Mapk3	ENSMUSG00 000063065	mitogen-activated protein kinase 3 Source MGI Symbol Acc MGI 1346859
D11	SBM0984642	ENSMUST00000 132379.1	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
D12	SBM0761253	ENSMUST00000 023180.14	Mefv	ENSMUSG00 000022534	Mediterranean fever Source MGI Symbol Acc MGI 1859396
E01	SBM1011865	ENSMUST00000 107930.2	Mpo	ENSMUSG00 000009350	myeloperoxidase Source MGI Symbol Acc MGI 97137
E02	SBM0986804	ENSMUST00000 035092.6	Myd88	ENSMUSG00 000032508	myeloid differentiation primary response gene 88 Source MGI Symbol Acc MGI 108005
E03	SBM0812415	ENSMUST00000 221727.1	Naip1	ENSMUSG00 000021640	NLR family, apoptosis inhibitory protein 1 Source MGI Symbol Acc MGI 1298223
E04	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
E05	SBM0696431	ENSMUST00000 021413.8	Nfkbia	ENSMUSG00 000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
E06	SBM0958694	ENSMUST00000 052124.8	Nlrc4	ENSMUSG00 000039193	NLR family, CARD domain containing 4 Source MGI Symbol Acc MGI 3036243
E07	SBM0968555	ENSMUST00000 048514.10	Nlrp1a	ENSMUSG00 000069830	NLR family, pyrin domain containing 1A Source MGI Symbol Acc MGI 2684861
E08	SBM0804985	ENSMUST00000 149126.1	Nlrp3	ENSMUSG00 000032691	NLR family, pyrin domain containing 3 Source MGI Symbol Acc MGI 2653833
E09	SBM0681489	ENSMUST00000 205242.1	Nod1	ENSMUSG00 000038058	nucleotide-binding oligomerization domain containing 1 Source MGI Symbol Acc MGI 1341839
E10	SBM1075105	ENSMUST00000 054324.14	Nod2	ENSMUSG00 000055994	nucleotide-binding oligomerization domain containing 2 Source MGI Symbol Acc MGI 2429397
E11	SBM0905151	ENSMUST00000 108243.7	Pik3ca	ENSMUSG00 000027665	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha Source MGI Symbol Acc MGI 1206581
E12	SBM0782422	ENSMUST00000 006679.14	Prtn3	ENSMUSG00 000057729	proteinase 3 Source MGI Symbol Acc MGI 893580
F01	SBM0761397	ENSMUST00000 132800.1	Pstpip1	ENSMUSG00 000032322	proline-serine-threonine phosphatase-interacting protein 1 Source MGI Symbol Acc MGI 1321396
F02	SBM0791013	ENSMUST00000 205594.1	Pycard	ENSMUSG00 000030793	PYD and CARD domain containing Source MGI Symbol Acc MGI 1931465
F03	SBM0680406	ENSMUST00000 145709.7	Rac1	ENSMUSG00 000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845
F04	SBM0937498	ENSMUST00000 237361.1	Rela	ENSMUSG00 000024927	v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290
F05	SBM0953041	ENSMUST00000 167374.8	Ripk1	ENSMUSG00 000021408	receptor (TNFRSF)-interacting serine-threonine kinase 1 Source MGI Symbol Acc MGI 108212
F06	SBM0781529	ENSMUST00000 037035.11	Ripk2	ENSMUSG00 000041135	receptor (TNFRSF)-interacting serine-threonine kinase 2 Source MGI Symbol Acc MGI 1891456
F07	SBM1030533	ENSMUST00000 147233.7	Slc11a1	ENSMUSG00 000026177	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 Source MGI Symbol Acc MGI 1345275
F08	SBM1076562	ENSMUST00000 109367.9	Slpi	ENSMUSG00 000017002	secretory leukocyte peptidase inhibitor Source MGI Symbol Acc MGI 109297
F09	SBM0757534	ENSMUST00000 226320.1	Sugt1	ENSMUSG00 000022024	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae) Source MGI Symbol Acc MGI 1915205
F10	SBM0979664	ENSMUST00000 058136.8	Ticam1	ENSMUSG00 000047123	toll-like receptor adaptor molecule 1 Source MGI Symbol Acc MGI 2147032

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0972875	ENSMUST00000149929.1	Ticam2	ENSMUSG00000056130	toll-like receptor adaptor molecule 2 Source MGI Symbol Acc MGI 3040056
F12	SBM1225397	ENSMUST00000177129.7	Tirap	ENSMUSG00000032041	toll-interleukin 1 receptor (TIR) domain-containing adaptor protein Source MGI Symbol Acc MGI 2152213
G01	SBM0864936	ENSMUST00000059349.5	Tlr1	ENSMUSG00000044827	toll-like receptor 1 Source MGI Symbol Acc MGI 1341295
G02	SBM0974490	ENSMUST00000029623.10	Tlr2	ENSMUSG00000027995	toll-like receptor 2 Source MGI Symbol Acc MGI 1346060
G03	SBM0745293	ENSMUST00000107365.2	Tlr4	ENSMUSG00000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G04	SBM0677822	ENSMUST00000191820.1	Tlr5	ENSMUSG00000079164	toll-like receptor 5 Source MGI Symbol Acc MGI 1858171
G05	SBM0968629	ENSMUST00000201307.1	Tlr6	ENSMUSG00000051498	toll-like receptor 6 Source MGI Symbol Acc MGI 1341296
G06	SBM0973468	ENSMUST00000062241.10	Tlr9	ENSMUSG00000045322	toll-like receptor 9 Source MGI Symbol Acc MGI 1932389
G07	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	SBM0837100	ENSMUST00000134803.1	Tnfrsf1a	ENSMUSG00000030341	tumor necrosis factor receptor superfamily, member 1a Source MGI Symbol Acc MGI 1314884
G09	SBM0724694	ENSMUST00000151890.2	Tollip	ENSMUSG00000025139	toll interacting protein Source MGI Symbol Acc MGI 1891808
G10	SBM1225398	ENSMUST00000004949.7	Traf6	ENSMUSG00000027164	TNF receptor-associated factor 6 Source MGI Symbol Acc MGI 108072
G11	SBM0766940	ENSMUST00000115095.8	Xiap	ENSMUSG00000025860	X-linked inhibitor of apoptosis Source MGI Symbol Acc MGI 107572
G12	SBM1064071	ENSMUST00000146802.1	Zbp1	ENSMUSG00000027514	Z-DNA binding protein 1 Source MGI Symbol Acc MGI 1927449
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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