

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

## Mouse Antifungal Response

Cat. no. 249950 SBMM-147ZR

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

	1	2	3	4	5	6	7	8	9	10	11	12
A	Bcl10	C3	C5ar1	Card9	Casp1	Casp8	Ccl12	Ccl20	Ccl5	Ccr1	Ccr5	Cd14
B	Cd207	Cd209a	Cd36	Cd40	Cd5	Cd83	Chia1	Clec4n	Clec7a	Colec12	Csf2	Csf3
C	Cxcl1	Cxcl10	Cxcl11	Cxcl3	Cxcl9	F2rl1	F3	Fcgr1	Fcgr3	Fcgr4	Fcnb	Fos
D	Ifng	Ilkbb	Il10	Il12a	Il12b	Il18	Il1a	Il1b	Il1r1	Il2	Il23a	Il6
E	Irak1	Irak4	Itgam	Itgb2	Jun	Lyn	Malt1	Map2k4	Map3k7	Mapk14	Mapk8	Mbl2
F	Mrc1	Myd88	Nfkb1	Nfkbia	Nlrp3	Nptx1	Plcg2	Plgs2	Ptpn6	Ptx3	Pycard	Raf1
G	Scarf1	Sftpd	Socs3	Sl3gal5	Stat1	Syk	Tirap	Tlr2	Tlr4	Tlr9	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	SBM0913860	ENSMUST00000198122.1	Bcl10	ENSMUSG0000028191	B cell leukemia/lymphoma 10 Source MGI Symbol Acc MGI 1337994
A02	SBM0754550	ENSMUST0000024988.14	C3	ENSMUSG0000024164	complement component 3 Source MGI Symbol Acc MGI 88227
A03	SBM0790759	ENSMUST00000209442.1	C5ar1	ENSMUSG0000049130	complement component 5a receptor 1 Source MGI Symbol Acc MGI 88232
A04	SBM0745387	ENSMUST0000028294.6	Card9	ENSMUSG0000026928	caspase recruitment domain family, member 9 Source MGI Symbol Acc MGI 2685628
A05	SBM0862549	ENSMUST0000027015.5	Casp1	ENSMUSG0000025888	caspase 1 Source MGI Symbol Acc MGI 96544
A06	SBM0772558	ENSMUST0000027189.14	Casp8	ENSMUSG0000026029	caspase 8 Source MGI Symbol Acc MGI 1261423
A07	SBM0687223	ENSMUST0000000194.3	Ccl12	ENSMUSG0000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
A08	SBM1058215	ENSMUST00000113437.8	Ccl20	ENSMUSG0000026166	chemokine (C-C motif) ligand 20 Source MGI Symbol Acc MGI 1329031
A09	SBM0703029	ENSMUST00000125015.1	Ccl5	ENSMUSG0000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
A10	SBM1015405	ENSMUST0000026911.5	Ccr1	ENSMUSG0000025804	chemokine (C-C motif) receptor 1 Source MGI Symbol Acc MGI 104618
A11	SBM0964476	ENSMUST00000111442.2	Ccr5	ENSMUSG0000079227	chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182
A12	SBM0904854	ENSMUST00000061829.7	Cd14	ENSMUSG0000051439	CD14 antigen Source MGI Symbol Acc MGI 88318
B01	SBM0762063	ENSMUST00000037882.7	Cd207	ENSMUSG0000034783	CD207 antigen Source MGI Symbol Acc MGI 2180021
B02	SBM0940548	ENSMUST00000207906.1	Cd209a	ENSMUSG0000031494	CD209a antigen Source MGI Symbol Acc MGI 2157942
B03	SBM0818786	ENSMUST00000170051.7	Cd36	ENSMUSG0000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
B04	SBM0757957	ENSMUST00000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B05	SBM0993064	ENSMUST0000025571.8	Cd5	ENSMUSG0000024669	CD5 antigen Source MGI Symbol Acc MGI 88340
B06	SBM0904565	ENSMUST0000015540.3	Cd83	ENSMUSG0000015396	CD83 antigen Source MGI Symbol Acc MGI 1328316
B07	SBM0733787	ENSMUST00000139086.1	Chia1	ENSMUSG0000062778	chitinase, acidic 1 Source MGI Symbol Acc MGI 1932052
B08	SBM0893468	ENSMUST00000151714.3	Clec4n	ENSMUSG0000023349	C-type lectin domain family 4, member n Source MGI Symbol Acc MGI 1861231
B09	SBM0927974	ENSMUST00000184861.3	Clec7a	ENSMUSG0000079293	C-type lectin domain family 7, member a Source MGI Symbol Acc MGI 1861431
B10	SBM1070170	ENSMUST00000040069.9	Colec12	ENSMUSG0000036103	collectin sub-family member 12 Source MGI Symbol Acc MGI 2152907
B11	SBM1080991	ENSMUST0000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B12	SBM0837472	ENSMUST00000038886.2	Csf3	ENSMUSG0000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
C01	SBM0998835	ENSMUST00000031327.8	Cxcl1	ENSMUSG0000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
C02	SBM0996179	ENSMUST00000118006.2	Cxcl10	ENSMUSG0000034855	chemokine (C-X-C motif) ligand 10 Source MGI Symbol Acc MGI 1352450
C03	SBM0710486	ENSMUST00000122808.1	Cxcl11	ENSMUSG0000060183	chemokine (C-X-C motif) ligand 11 Source MGI Symbol Acc MGI 1860203
C04	SBM0747228	ENSMUST00000201840.1	Cxcl3	ENSMUSG0000029379	chemokine (C-X-C motif) ligand 3 Source MGI Symbol Acc MGI 3037818
C05	SBM0993686	ENSMUST00000113093.4	Cxcl9	ENSMUSG0000029417	chemokine (C-X-C motif) ligand 9 Source MGI Symbol Acc MGI 1352449
C06	SBM0680175	ENSMUST0000022185.9	F2r11	ENSMUSG0000021678	coagulation factor II (thrombin) receptor-like 1 Source MGI Symbol Acc MGI 101910
C07	SBM0963811	ENSMUST0000029771.12	F3	ENSMUSG0000028128	coagulation factor III Source MGI Symbol Acc MGI 88381
C08	SBM0845170	ENSMUST0000029748.7	Fcgr1	ENSMUSG0000015947	Fc receptor, IgG, high affinity I Source MGI Symbol Acc MGI 95498
C09	SBM0840445	ENSMUST00000169017.7	Fcgr3	ENSMUSG0000059498	Fc receptor, IgG, low affinity III Source MGI Symbol Acc MGI 95500
C10	SBM0684789	ENSMUST00000078825.4	Fcgr4	ENSMUSG0000059089	Fc receptor, IgG, low affinity IV Source MGI Symbol Acc MGI 2179523
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0826350	117486.7	Fcnc	000026835	ficolin B Source MGI Symbol Acc MGI 1341158
C12	SBM0977461	ENSMUST00000134311.1	Fos	ENSMUSG0000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
D01	SBM0903694	ENSMUST00000068592.4	Ifrng	ENSMUSG00000055170	interferon gamma Source MGI Symbol Acc MGI 107656
D02	SBM0683235	ENSMUST00000144583.7	Ikbkb	ENSMUSG00000031537	inhibitor of kappaB kinase beta Source MGI Symbol Acc MGI 1338071
D03	SBM1004151	ENSMUST00000016673.5	Il10	ENSMUSG00000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
D04	SBM0806519	ENSMUST00000107816.3	Il12a	ENSMUSG00000027776	interleukin 12a Source MGI Symbol Acc MGI 96539
D05	SBM0957286	ENSMUST00000102796.9	Il12b	ENSMUSG00000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
D06	SBM0953194	ENSMUST00000180021.1	Il18	ENSMUSG00000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
D07	SBM1007460	ENSMUST00000028882.1	Il1a	ENSMUSG00000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
D08	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG00000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D09	SBM1086348	ENSMUST00000027241.10	Il1r1	ENSMUSG00000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D10	SBM0797059	ENSMUST00000029275.5	Il2	ENSMUSG00000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D11	SBM0691721	ENSMUST000000218109.1	Il23a	ENSMUSG00000025383	interleukin 23, alpha subunit p19 Source MGI Symbol Acc MGI 1932410
D12	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG00000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
E01	SBM0933124	ENSMUST000000148706.7	Irak1	ENSMUSG00000031392	interleukin-1 receptor-associated kinase 1 Source MGI Symbol Acc MGI 107420
E02	SBM1016749	ENSMUST000000138306.1	Irak4	ENSMUSG00000059883	interleukin-1 receptor-associated kinase 4 Source MGI Symbol Acc MGI 2182474
E03	SBM0730179	ENSMUST000000156593.2	Ilgam	ENSMUSG00000030786	integrin alpha M Source MGI Symbol Acc MGI 96607
E04	SBM0947975	ENSMUST000000131023.7	Irgb2	ENSMUSG00000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
E05	SBM1045409	ENSMUST000000107094.1	Jun	ENSMUSG00000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
E06	SBM0691599	ENSMUST000000103010.3	Lyn	ENSMUSG00000042228	LYN proto-oncogene, Src family tyrosine kinase Source MGI Symbol Acc MGI 96892
E07	SBM0703558	ENSMUST000000237488.1	Malt1	ENSMUSG00000032688	MALT1 paracaspase Source MGI Symbol Acc MGI 2445027
E08	SBM1084723	ENSMUST000000046963.9	Map2k4	ENSMUSG00000033352	mitogen-activated protein kinase kinase 4 Source MGI Symbol Acc MGI 1346869
E09	SBM0833481	ENSMUST000000037607.10	Map3k7	ENSMUSG00000028284	mitogen-activated protein kinase kinase 7 Source MGI Symbol Acc MGI 1346877
E10	SBM0683456	ENSMUST000000114754.7	Mapk14	ENSMUSG00000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
E11	SBM0984642	ENSMUST000000132379.1	Mapk8	ENSMUSG00000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
E12	SBM0936795	ENSMUST000000025797.6	Mbl2	ENSMUSG00000024863	mannose-binding lectin (protein C) 2 Source MGI Symbol Acc MGI 96924
F01	SBM0994933	ENSMUST000000028045.3	Mrc1	ENSMUSG00000026712	mannose receptor, C type 1 Source MGI Symbol Acc MGI 97142
F02	SBM0986804	ENSMUST000000035092.6	Myd88	ENSMUSG00000032508	myeloid differentiation primary response gene 88 Source MGI Symbol Acc MGI 108005
F03	SBM0841870	ENSMUST000000164430.6	Nfkb1	ENSMUSG00000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
F04	SBM0696431	ENSMUST000000021413.8	Nfkbia	ENSMUSG00000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
F05	SBM0804985	ENSMUST000000149126.1	Nlrp3	ENSMUSG00000032691	NLR family, pyrin domain containing 3 Source MGI Symbol Acc MGI 2653833
F06	SBM1088449	ENSMUST000000026670.4	Nptx1	ENSMUSG00000025582	neuronal pentraxin 1 Source MGI Symbol Acc MGI 107811
F07	SBM0855891	ENSMUST000000081232.8	Plcg2	ENSMUSG00000034330	phospholipase C, gamma 2 Source MGI Symbol Acc MGI 97616
F08	SBM0782881	ENSMUST000000035065.8	Ptgs2	ENSMUSG00000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F09	SBM1010608	ENSMUST000000172690.1	Ptpn6	ENSMUSG00000004266	protein tyrosine phosphatase, non-receptor type 6 Source MGI Symbol Acc MGI 96055
F10	SBM0880764	ENSMUST000000029421.5	Ptx3	ENSMUSG00000027832	pentraxin related gene Source MGI Symbol Acc MGI 104641

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0791013	ENSMUST00000205594.1	Pycard	ENSMUSG0000030793	PYD and CARD domain containing Source MGI Symbol Acc MGI 1931465
F12	SBM0974573	ENSMUST00000124553.3	Raf1	ENSMUSG0000000441	v-raf-leukemia viral oncogene 1 Source MGI Symbol Acc MGI 97847
G01	SBM0901368	ENSMUST00000118243.1	Scarf1	ENSMUSG0000038188	scavenger receptor class F, member 1 Source MGI Symbol Acc MGI 2449455
G02	SBM0834442	ENSMUST00000077136.4	Sftpd	ENSMUSG0000021795	surfactant associated protein D Source MGI Symbol Acc MGI 109515
G03	SBM0977814	ENSMUST00000054002.3	Socs3	ENSMUSG0000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
G04	SBM0859315	ENSMUST00000187007.2	St3gal5	ENSMUSG0000056091	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 Source MGI Symbol Acc MGI 1339963
G05	SBM0954168	ENSMUST00000070968.13	Stat1	ENSMUSG0000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G06	SBM0702487	ENSMUST00000120135.7	Syk	ENSMUSG0000021457	spleen tyrosine kinase Source MGI Symbol Acc MGI 99515
G07	SBM1225397	ENSMUST00000177129.7	Tirap	ENSMUSG0000032041	toll-interleukin 1 receptor (TIR) domain-containing adaptor protein Source MGI Symbol Acc MGI 2152213
G08	SBM0974490	ENSMUST00000029623.10	Tlr2	ENSMUSG0000027995	toll-like receptor 2 Source MGI Symbol Acc MGI 1346060
G09	SBM0745293	ENSMUST00000107365.2	Tlr4	ENSMUSG0000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G10	SBM0973468	ENSMUST00000062241.10	Tlr9	ENSMUSG0000045322	toll-like receptor 9 Source MGI Symbol Acc MGI 1932389
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 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 $\mu$ l QuantiNova SYBR Green RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ 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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