

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

## Mouse Inflammasomes

Cat. no. 249950 SBMM-097ZR

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	Aim2	Bcl2	Bcl2l1	Birc2	Birc3	Card6	Casp1	Casp12	Casp8	Ccl12	Cd5	Ccl7
B	Cd40lg	Cflar	Chuk	Ctla	Ctsb	Cxcl1	Cxcl3	Fadd	Hsp90aa1	Hsp90b1	Ifnb1	Ifng
C	Ikbb	Ikkg	Il12a	Il12b	Il18	Il1b	Il33	Il6	Irak1	Irf1	Irf3	Irf4
D	Map3k7	Mapk1	Mapk11	Mapk12	Mapk13	Mapk3	Mapk8	Mapk9	Mefv	Myd88	Naip1	Naip5
E	Nfkb1	Nfkbia	Nfkbib	Nlrc4	Nlrc5	Nlrp12	Nlrp1a	Nlrp3	Nlrp4b	Nlrp4e	Nlrp5	Nlrp6
F	Nlrp9b	Nlrp1	Nod1	Nod2	P2rx7	Panx1	Pea15a	Pstpip1	Ptgs2	Pycard	Rela	Ripk2
G	Mok	Sugt1	Tab1	Tab2	Tirap	Tnf	Tnfrsf11	Tnfrsf14	Tnfrsf4	Traf6	Txnip	Xiap
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	SBM0853214	ENSMUST00000192575.1	Aim2	ENSMUSG0000037860	absent in melanoma 2 Source MGI Symbol Acc MGI 2686159
A02	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A03	SBM0751583	ENSMUST00000134357.1	Bcl2l1	ENSMUSG0000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
A04	SBM0791338	ENSMUST00000190341.6	Birc2	ENSMUSG0000057367	baculoviral IAP repeat-containing 2 Source MGI Symbol Acc MGI 1197009
A05	SBM0873926	ENSMUST00000115672.1	Birc3	ENSMUSG0000032000	baculoviral IAP repeat-containing 3 Source MGI Symbol Acc MGI 1197007
A06	SBM0822887	ENSMUST00000141020.1	Card6	ENSMUSG0000041849	caspase recruitment domain family, member 6 Source MGI Symbol Acc MGI 3032959
A07	SBM0862549	ENSMUST00000027015.5	Casp1	ENSMUSG0000025888	caspase 1 Source MGI Symbol Acc MGI 96544
A08	SBM1026114	ENSMUST00000151788.7	Casp12	ENSMUSG0000025887	caspase 12 Source MGI Symbol Acc MGI 1312922
A09	SBM0772558	ENSMUST00000027189.14	Casp8	ENSMUSG0000026029	caspase 8 Source MGI Symbol Acc MGI 1261423
A10	SBM0687223	ENSMUST00000000194.3	Ccl12	ENSMUSG0000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
A11	SBM0703029	ENSMUST00000125015.1	Ccl5	ENSMUSG0000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
A12	SBM0998844	ENSMUST00000021011.2	Ccl7	ENSMUSG0000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
B01	SBM0708134	ENSMUST00000033466.1	Cd40lg	ENSMUSG0000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
B02	SBM0727764	ENSMUST00000124567.1	Cflar	ENSMUSG0000026031	CASP8 and FADD-like apoptosis regulator Source MGI Symbol Acc MGI 1336166
B03	SBM1034080	ENSMUST00000026217.10	Chuk	ENSMUSG0000025199	conserved helix-loop-helix ubiquitous kinase Source MGI Symbol Acc MGI 99484
B04	SBM1059521	ENSMUST00000230395.1	Ciita	ENSMUSG0000022504	class II transactivator Source MGI Symbol Acc MGI 108445
B05	SBM0677916	ENSMUST00000225540.1	Ctsb	ENSMUSG0000021939	cathepsin B Source MGI Symbol Acc MGI 88561
B06	SBM0998835	ENSMUST00000031327.8	Cxcl1	ENSMUSG0000029380	chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068
B07	SBM0747228	ENSMUST00000201840.1	Cxcl3	ENSMUSG0000029379	chemokine (C-X-C motif) ligand 3 Source MGI Symbol Acc MGI 3037818
B08	SBM0895464	ENSMUST00000033394.7	Fadd	ENSMUSG0000031077	Fas (TNFRSF6)-associated via death domain Source MGI Symbol Acc MGI 109324
B09	SBM0939146	ENSMUST00000155242.7	Hsp90aa1	ENSMUSG0000021270	heat shock protein 90, alpha (cytosolic), class A member 1 Source MGI Symbol Acc MGI 96250
B10	SBM0747618	ENSMUST00000129178.7	Hsp90b1	ENSMUSG0000020048	heat shock protein 90, beta (Grp94), member 1 Source MGI Symbol Acc MGI 98817
B11	SBM0872658	ENSMUST00000055671.4	Ifnb1	ENSMUSG0000048806	interferon beta 1, fibroblast Source MGI Symbol Acc MGI 107657
B12	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C01	SBM0683235	ENSMUST00000144583.7	Ikbbk	ENSMUSG0000031537	inhibitor of kappaB kinase beta Source MGI Symbol Acc MGI 1338071
C02	SBM0785643	ENSMUST00000114127.7	Ikbbk	ENSMUSG0000004221	inhibitor of kappaB kinase gamma Source MGI Symbol Acc MGI 1338074
C03	SBM0806519	ENSMUST00000107816.3	Il12a	ENSMUSG0000027776	interleukin 12a Source MGI Symbol Acc MGI 96539
C04	SBM0957286	ENSMUST00000102796.9	Il12b	ENSMUSG0000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
C05	SBM0953194	ENSMUST00000180021.1	Il18	ENSMUSG0000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
C06	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
C07	SBM0679001	ENSMUST00000120388.8	Il33	ENSMUSG0000024810	interleukin 33 Source MGI Symbol Acc MGI 1924375
C08	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
C09	SBM0933124	ENSMUST00000148706.7	Irak1	ENSMUSG0000031392	interleukin-1 receptor-associated kinase 1 Source MGI Symbol Acc MGI 107420
C10	SBM1091850	ENSMUST00000138913.7	Irf1	ENSMUSG0000018899	interferon regulatory factor 1 Source MGI Symbol Acc MGI 96590
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0803819	207129.1	Irf3	000003184	interferon regulatory factor 3 Source MGI Symbol Acc MGI 1859179
C12	SBM0761311	ENSMUST0000021784.9	Irf4	ENSMUSG0000021356	interferon regulatory factor 4 Source MGI Symbol Acc MGI 1096873
D01	SBM0833481	ENSMUST0000037607.10	Map3k7	ENSMUSG0000028284	mitogen-activated protein kinase kinase kinase 7 Source MGI Symbol Acc MGI 1346877
D02	SBM0800614	ENSMUST0000023182.1	Mapk1	ENSMUSG0000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D03	SBM1049624	ENSMUST00000230634.1	Mapk11	ENSMUSG0000053137	mitogen-activated protein kinase 11 Source MGI Symbol Acc MGI 1338024
D04	SBM1061348	ENSMUST00000230509.1	Mapk12	ENSMUSG0000022610	mitogen-activated protein kinase 12 Source MGI Symbol Acc MGI 1353438
D05	SBM1018712	ENSMUST00000233051.1	Mapk13	ENSMUSG0000004864	mitogen-activated protein kinase 13 Source MGI Symbol Acc MGI 1346864
D06	SBM0856900	ENSMUST00000206272.1	Mapk3	ENSMUSG0000063065	mitogen-activated protein kinase 3 Source MGI Symbol Acc MGI 1346859
D07	SBM0984642	ENSMUST00000132379.1	Mapk8	ENSMUSG0000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
D08	SBM1025510	ENSMUST00000144857.7	Mapk9	ENSMUSG0000020366	mitogen-activated protein kinase 9 Source MGI Symbol Acc MGI 1346862
D09	SBM0761253	ENSMUST0000023180.14	Mefv	ENSMUSG0000022534	Mediterranean fever Source MGI Symbol Acc MGI 1859396
D10	SBM0986804	ENSMUST0000035092.6	Myd88	ENSMUSG0000032508	myeloid differentiation primary response gene 88 Source MGI Symbol Acc MGI 108005
D11	SBM0812415	ENSMUST00000221727.1	Naip1	ENSMUSG0000021640	NLR family, apoptosis inhibitory protein 1 Source MGI Symbol Acc MGI 1298223
D12	SBM0941695	ENSMUST0000049789.2	Naip5	ENSMUSG0000071203	NLR family, apoptosis inhibitory protein 5 Source MGI Symbol Acc MGI 1298220
E01	SBM0841870	ENSMUST00000164430.6	Nfkb1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E02	SBM0696431	ENSMUST0000021413.8	Nfkbia	ENSMUSG0000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
E03	SBM0704537	ENSMUST0000085851.11	Nfkbib	ENSMUSG0000030595	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, beta Source MGI Symbol Acc MGI 104752
E04	SBM0958694	ENSMUST0000052124.8	Nlrc4	ENSMUSG0000039193	NLR family, CARD domain containing 4 Source MGI Symbol Acc MGI 3036243
E05	SBM0860511	ENSMUST00000182409.8	Nlrc5	ENSMUSG0000074151	NLR family, CARD domain containing 5 Source MGI Symbol Acc MGI 3612191
E06	SBM0834925	ENSMUST00000205233.1	Nlrp12	ENSMUSG0000078817	NLR family, pyrin domain containing 12 Source MGI Symbol Acc MGI 2676630
E07	SBM0968555	ENSMUST0000048514.10	Nlrp1a	ENSMUSG0000069830	NLR family, pyrin domain containing 1A Source MGI Symbol Acc MGI 2684861
E08	SBM0804985	ENSMUST00000149126.1	Nlrp3	ENSMUSG0000032691	NLR family, pyrin domain containing 3 Source MGI Symbol Acc MGI 2653833
E09	SBM0848026	ENSMUST00000132990.1	Nlrp4b	ENSMUSG0000034087	NLR family, pyrin domain containing 4B Source MGI Symbol Acc MGI 3056570
E10	SBM0991432	ENSMUST0000076470.4	Nlrp4e	ENSMUSG0000045693	NLR family, pyrin domain containing 4E Source MGI Symbol Acc MGI 3056600
E11	SBM0692296	ENSMUST0000015866.13	Nlrp5	ENSMUSG0000015721	NLR family, pyrin domain containing 5 Source MGI Symbol Acc MGI 1345193
E12	SBM0821523	ENSMUST00000183845.7	Nlrp6	ENSMUSG0000038745	NLR family, pyrin domain containing 6 Source MGI Symbol Acc MGI 2141990
F01	SBM0983639	ENSMUST00000117909.1	Nlrp9b	ENSMUSG0000060508	NLR family, pyrin domain containing 9B Source MGI Symbol Acc MGI 2675377
F02	SBM0731490	ENSMUST00000213803.1	Nlrx1	ENSMUSG0000032109	NLR family member X1 Source MGI Symbol Acc MGI 2429611
F03	SBM0681489	ENSMUST00000205242.1	Nod1	ENSMUSG0000038058	nucleotide-binding oligomerization domain containing 1 Source MGI Symbol Acc MGI 1341839
F04	SBM1075105	ENSMUST0000054324.14	Nod2	ENSMUSG0000055994	nucleotide-binding oligomerization domain containing 2 Source MGI Symbol Acc MGI 2429397
F05	SBM0965301	ENSMUST00000199371.1	P2rx7	ENSMUSG0000029468	purinergic receptor P2X, ligand-gated ion channel, 7 Source MGI Symbol Acc MGI 1339957
F06	SBM0826801	ENSMUST00000166933.1	Panx1	ENSMUSG0000031934	pannexin 1 Source MGI Symbol Acc MGI 1860055
F07	SBM0739016	ENSMUST00000111247.7	Pea15a	ENSMUSG0000013698	phosphoprotein enriched in astrocytes 15A Source MGI Symbol Acc MGI 104799
F08	SBM0761397	ENSMUST00000132800.1	Pstpip1	ENSMUSG0000032322	proline-serine-threonine phosphatase-interacting protein 1 Source MGI Symbol Acc MGI 1321396
F09	SBM0782881	ENSMUST0000035065.8	Ptgs2	ENSMUSG0000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F10	SBM0791013	ENSMUST00000205594.1	Pycard	ENSMUSG0000030793	PYD and CARD domain containing Source MGI Symbol Acc MGI 1931465

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0937498	ENSMUST00000237361.1	Rela	ENSMUSG0000024927	v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290
F12	SBM0781529	ENSMUST00000037035.11	Ripk2	ENSMUSG0000041135	receptor (TNFRSF)-interacting serine-threonine kinase 2 Source MGI Symbol Acc MGI 1891456
G01	SBM1059772	ENSMUST00000084974.10	Mok	ENSMUSG0000056458	MOK protein kinase Source MGI Symbol Acc MGI 1336881
G02	SBM0757534	ENSMUST00000226320.1	Sugt1	ENSMUSG0000022024	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae) Source MGI Symbol Acc MGI 1915205
G03	SBM0879694	ENSMUST00000229320.1	Tab1	ENSMUSG0000022414	TGF-beta activated kinase 1/MAP3K7 binding protein 1 Source MGI Symbol Acc MGI 1913763
G04	SBM0682891	ENSMUST00000146444.7	Tab2	ENSMUSG0000015755	TGF-beta activated kinase 1/MAP3K7 binding protein 2 Source MGI Symbol Acc MGI 1915902
G05	SBM1225397	ENSMUST00000177129.7	Tirap	ENSMUSG0000032041	toll-interleukin 1 receptor (TIR) domain-containing adaptor protein Source MGI Symbol Acc MGI 2152213
G06	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G07	SBM1225403	ENSMUST00000022592.7	Tnfsf11	ENSMUSG0000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
G08	SBM0681467	ENSMUST00000005976.7	Tnfsf14	ENSMUSG000005824	tumor necrosis factor (ligand) superfamily, member 14 Source MGI Symbol Acc MGI 1355317
G09	SBM1089254	ENSMUST00000028024.4	Tnfsf4	ENSMUSG0000026700	tumor necrosis factor (ligand) superfamily, member 4 Source MGI Symbol Acc MGI 104511
G10	SBM1225398	ENSMUST00000004949.7	Traf6	ENSMUSG0000027164	TNF receptor-associated factor 6 Source MGI Symbol Acc MGI 108072
G11	SBM1060480	ENSMUST00000049093.7	Txnip	ENSMUSG0000038393	thioredoxin interacting protein Source MGI Symbol Acc MGI 1889549
G12	SBM0766940	ENSMUST000000115095.8	Xiap	ENSMUSG0000025860	X-linked inhibitor of apoptosis Source MGI Symbol Acc MGI 107572
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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