

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

Mouse NFκB Signaling Targets

Cat. no. 249950 SBMM-225ZR

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 for further details.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|--------|--------|--------|---------|----------|--------|----------|----------|-------|-------|-------|---------|
| A | Adm | Agt | Akt1 | Aldh3a2 | Bcl2a1a | Bcl2l1 | Birc2 | Birc3 | C3 | C4a | Cd12 | Ccl22 |
| B | Ccl5 | Ccnd1 | Ccr5 | Cd40 | Cd74 | Cd80 | Cd83 | Cdkn1a | Cfb | Csf1 | Csf2 | Csf2rb |
| C | Csf3 | Cxcl1 | Cxcl10 | Cxcl3 | Cxcl9 | Egfr | Egr2 | F3 | F8 | Fas | Fosl | Gadd45b |
| D | Icam1 | Ifnb1 | Ifng | Il12b | Il15 | Il1a | Il1b | Il1r2 | Il1rn | Il2 | Il2ra | Il4 |
| E | Il6 | Ins2 | Irf1 | Lta | Lib | Map2k6 | Mif | Mmp9 | Myc | Myd88 | Ncoa3 | Nfkb1 |
| F | Nfkb2 | Nfkbia | Nqo1 | Nr4a2 | Pdgfb | Plau | Ptgs2 | Rel | Rela | Relb | Sele | Selp |
| G | Snap25 | Sod2 | Stat1 | Stat3 | Stat5b | Tnf | Tnfrsf1b | Tnfrsf10 | Traf2 | Trp53 | Vcam1 | 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 | SBM0999945 | ENSMUST00000185766.1 | Adm | ENSMUSG0000030790 | adrenomedullin Source MGI Symbol Acc MGI 108058 |
| A02 | SBM0838798 | ENSMUST00000063278.6 | Agt | ENSMUSG00000031980 | angiotensinogen (serpin peptidase inhibitor, clade A, member 8) Source MGI Symbol Acc MGI 87963 |
| A03 | SBM1020452 | ENSMUST00000144550.8 | Akt1 | ENSMUSG0000001729 | thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986 |
| A04 | SBM0895686 | ENSMUST00000147291.7 | Aldh3a2 | ENSMUSG0000010025 | aldehyde dehydrogenase family 3, subfamily A2 Source MGI Symbol Acc MGI 1353452 |
| A05 | SBM1020275 | ENSMUST00000098485.3 | Bcl2a1a | ENSMUSG0000102037 | B cell leukemia/lymphoma 2 related protein A1a Source MGI Symbol Acc MGI 102687 |
| A06 | SBM0751583 | ENSMUST00000134357.1 | Bcl2l1 | ENSMUSG0000007659 | BCL2-like 1 Source MGI Symbol Acc MGI 88139 |
| A07 | SBM0791338 | ENSMUST00000190341.6 | Birc2 | ENSMUSG00000057367 | baculoviral IAP repeat-containing 2 Source MGI Symbol Acc MGI 1197009 |
| A08 | SBM0873926 | ENSMUST00000115672.1 | Birc3 | ENSMUSG00000032000 | baculoviral IAP repeat-containing 3 Source MGI Symbol Acc MGI 1197007 |
| A09 | SBM0754550 | ENSMUST00000024988.14 | C3 | ENSMUSG00000024164 | complement component 3 Source MGI Symbol Acc MGI 88227 |
| A10 | SBM0834073 | ENSMUST00000161121.7 | C4a | ENSMUSG0000015451 | complement component 4A (Rodgers blood group) Source MGI Symbol Acc MGI 98320 |
| A11 | SBM0687223 | ENSMUST0000000194.3 | Ccl12 | ENSMUSG0000035352 | chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224 |
| A12 | SBM0685855 | ENSMUST00000034231.3 | Ccl22 | ENSMUSG00000031779 | chemokine (C-C motif) ligand 22 Source MGI Symbol Acc MGI 1306779 |
| B01 | SBM0703029 | ENSMUST00000125015.1 | Ccl5 | ENSMUSG0000035042 | chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262 |
| B02 | SBM0706150 | ENSMUST00000093962.4 | Ccnd1 | ENSMUSG00000070348 | cyclin D1 Source MGI Symbol Acc MGI 88313 |
| B03 | SBM0964476 | ENSMUST00000111442.2 | Ccr5 | ENSMUSG00000079227 | chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182 |
| B04 | SBM0757957 | ENSMUST00000073707.8 | Cd40 | ENSMUSG0000017652 | CD40 antigen Source MGI Symbol Acc MGI 88336 |
| B05 | SBM0877871 | ENSMUST00000097563.8 | Cd74 | ENSMUSG0000024610 | CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) Source MGI Symbol Acc MGI 96534 |
| B06 | SBM1043965 | ENSMUST00000232409.1 | Cd80 | ENSMUSG0000075122 | CD80 antigen Source MGI Symbol Acc MGI 101775 |
| B07 | SBM0904565 | ENSMUST00000015540.3 | Cd83 | ENSMUSG0000015396 | CD83 antigen Source MGI Symbol Acc MGI 1328316 |
| B08 | SBM1034022 | ENSMUST00000023829.7 | Cdkn1a | ENSMUSG0000023067 | cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556 |
| B09 | SBM0811827 | ENSMUST00000128767.7 | Cfb | ENSMUSG00000090231 | complement factor B Source MGI Symbol Acc MGI 105975 |
| B10 | SBM0903322 | ENSMUST00000155557.1 | Csf1 | ENSMUSG0000014599 | colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753 |
| B11 | SBM1080991 | ENSMUST00000019060.5 | Csf2 | ENSMUSG0000018916 | colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752 |
| B12 | SBM0742677 | ENSMUST00000096355.3 | Csf2rb | ENSMUSG00000071713 | colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339759 |
| C01 | SBM0837472 | ENSMUST00000038886.2 | Csf3 | ENSMUSG0000038067 | colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751 |
| C02 | SBM0998835 | ENSMUST00000031327.8 | Cxcl1 | ENSMUSG0000029380 | chemokine (C-X-C motif) ligand 1 Source MGI Symbol Acc MGI 108068 |
| C03 | SBM0996179 | ENSMUST00000118006.2 | Cxcl10 | ENSMUSG0000034855 | chemokine (C-X-C motif) ligand 10 Source MGI Symbol Acc MGI 1352450 |
| 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 | SBM1033270 | ENSMUST00000020329.12 | Egfr | ENSMUSG0000020122 | epidermal growth factor receptor Source MGI Symbol Acc MGI 95294 |
| C07 | SBM0767336 | ENSMUST00000145936.1 | Egr2 | ENSMUSG0000037868 | early growth response 2 Source MGI Symbol Acc MGI 95296 |
| C08 | SBM0963811 | ENSMUST00000029771.12 | F3 | ENSMUSG0000028128 | coagulation factor III Source MGI Symbol Acc MGI 88381 |
| C09 | SBM0809754 | ENSMUST00000147349.7 | F8 | ENSMUSG0000031196 | coagulation factor VIII Source MGI Symbol Acc MGI 88383 |
| C10 | SBM0856649 | ENSMUST00000112472.3 | Fas | ENSMUSG0000024778 | Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484 |
| | | ENSMUST00000 | | ENSMUSG00 | |

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|------------|-----------------------|---------|--------------------|--|
| C11 | SBM0967876 | 000834.3 | FasL | 000000817 | Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255 |
| C12 | SBM0915027 | ENSMUST00000220246.1 | Gadd45b | ENSMUSG0000015312 | growth arrest and DNA-damage-inducible 45 beta Source MGI Symbol Acc MGI 107776 |
| D01 | SBM0806584 | ENSMUST00000215003.1 | Icam1 | ENSMUSG00000037405 | intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392 |
| D02 | SBM0872658 | ENSMUST00000055671.4 | Ifnb1 | ENSMUSG0000048806 | interferon beta 1, fibroblast Source MGI Symbol Acc MGI 107657 |
| D03 | SBM0903694 | ENSMUST00000068592.4 | Ifnb2 | ENSMUSG00000055170 | interferon gamma Source MGI Symbol Acc MGI 107656 |
| D04 | SBM0957286 | ENSMUST00000102796.9 | Il12b | ENSMUSG0000004296 | interleukin 12b Source MGI Symbol Acc MGI 96540 |
| D05 | SBM0737685 | ENSMUST00000034148.6 | Il15 | ENSMUSG00000031712 | interleukin 15 Source MGI Symbol Acc MGI 103014 |
| D06 | SBM1007460 | ENSMUST00000028882.1 | Il1a | ENSMUSG00000027399 | interleukin 1 alpha Source MGI Symbol Acc MGI 96542 |
| D07 | SBM0738485 | ENSMUST00000028881.13 | Il1b | ENSMUSG00000027398 | interleukin 1 beta Source MGI Symbol Acc MGI 96543 |
| D08 | SBM0820917 | ENSMUST00000195770.1 | Il1r2 | ENSMUSG00000026073 | interleukin 1 receptor, type II Source MGI Symbol Acc MGI 96546 |
| D09 | SBM0732530 | ENSMUST00000142093.6 | Il1rn | ENSMUSG00000026981 | interleukin 1 receptor antagonist Source MGI Symbol Acc MGI 96547 |
| D10 | SBM0797059 | ENSMUST00000029275.5 | Il2 | ENSMUSG00000027720 | interleukin 2 Source MGI Symbol Acc MGI 96548 |
| D11 | SBM1067326 | ENSMUST00000028111.5 | Il2ra | ENSMUSG00000026770 | interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549 |
| D12 | SBM0926369 | ENSMUST00000150568.7 | Il4 | ENSMUSG0000000869 | interleukin 4 Source MGI Symbol Acc MGI 96556 |
| E01 | SBM0742623 | ENSMUST00000026845.11 | Il6 | ENSMUSG00000025746 | interleukin 6 Source MGI Symbol Acc MGI 96559 |
| E02 | SBM0867142 | ENSMUST00000125933.1 | Ins2 | ENSMUSG00000000215 | insulin II Source MGI Symbol Acc MGI 96573 |
| E03 | SBM1091850 | ENSMUST00000138913.7 | Irf1 | ENSMUSG0000018899 | interferon regulatory factor 1 Source MGI Symbol Acc MGI 96590 |
| E04 | SBM0790437 | ENSMUST00000025266.5 | Lta | ENSMUSG00000024402 | lymphotoxin A Source MGI Symbol Acc MGI 104797 |
| E05 | SBM0777783 | ENSMUST00000173510.1 | Ltb | ENSMUSG00000024399 | lymphotoxin B Source MGI Symbol Acc MGI 104796 |
| E06 | SBM0854481 | ENSMUST00000133920.1 | Map2k6 | ENSMUSG00000020623 | mitogen-activated protein kinase kinase 6 Source MGI Symbol Acc MGI 1346870 |
| E07 | SBM1054907 | ENSMUST00000139462.1 | Mitf | ENSMUSG00000035158 | melanogenesis associated transcription factor Source MGI Symbol Acc MGI 104554 |
| E08 | SBM1089430 | ENSMUST00000017881.2 | Mmp9 | ENSMUSG00000017737 | matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011 |
| E09 | SBM0987162 | ENSMUST00000159338.1 | Myc | ENSMUSG00000022346 | myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250 |
| E10 | SBM0986804 | ENSMUST00000035092.6 | Myd88 | ENSMUSG00000032508 | myeloid differentiation primary response gene 88 Source MGI Symbol Acc MGI 108005 |
| E11 | SBM0723993 | ENSMUST00000153507.1 | Ncoa3 | ENSMUSG00000027678 | nuclear receptor coactivator 3 Source MGI Symbol Acc MGI 1276535 |
| E12 | SBM0841870 | ENSMUST00000164430.6 | Nfkb1 | ENSMUSG00000028163 | nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312 |
| F01 | SBM0970553 | ENSMUST00000237761.1 | Nfkb2 | ENSMUSG00000025225 | nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100 Source MGI Symbol Acc MGI 1099800 |
| F02 | SBM0696431 | ENSMUST00000021413.8 | Nfkbia | ENSMUSG00000021025 | nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741 |
| F03 | SBM0878519 | ENSMUST00000003947.8 | Nqo1 | ENSMUSG00000003849 | NAD(P)H dehydrogenase, quinone 1 Source MGI Symbol Acc MGI 103187 |
| F04 | SBM1012315 | ENSMUST00000183542.7 | Nr4a2 | ENSMUSG00000026826 | nuclear receptor subfamily 4, group A, member 2 Source MGI Symbol Acc MGI 1352456 |
| F05 | SBM0947438 | ENSMUST00000000500.7 | Pdgfb | ENSMUSG00000000489 | platelet derived growth factor, B polypeptide Source MGI Symbol Acc MGI 97528 |
| F06 | SBM0733272 | ENSMUST00000224141.1 | Plau | ENSMUSG00000021822 | plasminogen activator, urokinase Source MGI Symbol Acc MGI 97611 |
| F07 | SBM0782881 | ENSMUST00000035065.8 | Ptgs2 | ENSMUSG00000032487 | prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798 |
| F08 | SBM0781183 | ENSMUST00000102864.4 | Rel | ENSMUSG00000020275 | reticuloendotheliosis oncogene Source MGI Symbol Acc MGI 97897 |
| F09 | SBM0937498 | ENSMUST00000237361.1 | Rela | ENSMUSG00000024927 | v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290 |
| F10 | SBM1089153 | ENSMUST00000094762.9 | Relb | ENSMUSG00000002983 | avian reticuloendotheliosis viral (v-rel) oncogene related B Source MGI Symbol Acc MGI 103289 |

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|------------|-----------------------|----------|-------------------|---|
| F11 | SBM0765795 | ENSMUST00000027874.5 | Sele | ENSMUSG0000026582 | selectin, endothelial cell Source MGI Symbol Acc MGI 98278 |
| F12 | SBM1080696 | ENSMUST00000161020.7 | Selp | ENSMUSG0000026580 | selectin, platelet Source MGI Symbol Acc MGI 98280 |
| G01 | SBM0825941 | ENSMUST00000125486.1 | Snap25 | ENSMUSG0000027273 | synaptosomal-associated protein 25 Source MGI Symbol Acc MGI 98331 |
| G02 | SBM1063571 | ENSMUST00000233791.1 | Sod2 | ENSMUSG0000006818 | superoxide dismutase 2, mitochondrial Source MGI Symbol Acc MGI 98352 |
| G03 | SBM0954168 | ENSMUST00000070968.13 | Stat1 | ENSMUSG0000026104 | signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063 |
| G04 | SBM0821931 | ENSMUST00000103114.7 | Stat3 | ENSMUSG0000004040 | signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038 |
| G05 | SBM0792638 | ENSMUST00000126266.1 | Stat5b | ENSMUSG0000020919 | signal transducer and activator of transcription 5B Source MGI Symbol Acc MGI 103035 |
| G06 | SBM0788439 | ENSMUST00000025263.14 | Tnf | ENSMUSG0000024401 | tumor necrosis factor Source MGI Symbol Acc MGI 104798 |
| G07 | SBM0979488 | ENSMUST00000143055.1 | Tnfrsf1b | ENSMUSG0000028599 | tumor necrosis factor receptor superfamily, member 1b Source MGI Symbol Acc MGI 1314883 |
| G08 | SBM0969669 | ENSMUST00000046383.11 | Tnfsf10 | ENSMUSG0000039304 | tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414 |
| G09 | SBM0686660 | ENSMUST00000151742.1 | Traf2 | ENSMUSG0000026942 | TNF receptor-associated factor 2 Source MGI Symbol Acc MGI 101835 |
| G10 | SBM0841427 | ENSMUST00000108657.3 | Trp53 | ENSMUSG0000059552 | transformation related protein 53 Source MGI Symbol Acc MGI 98834 |
| G11 | SBM1225402 | ENSMUST00000029574.12 | Vcam1 | ENSMUSG0000027962 | vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926 |
| G12 | SBM0766940 | ENSMUST00000115095.8 | 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 μ l reactions: 20 μ l 8x gDNA Removal Mix, 10 μ l Reverse Transcription Enzyme, 40 μ l Reverse Transcription Mix (containing RT primers), 20 μ l Internal Control RNA, 1.9 ml RNase-Free Water | 205410 |
| QuantiNova SYBR Green RT-PCR Kit (100)* | For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green RT Mix, 20 μ l Internal Control RNA, 500 μ l Yellow Template Dilution Buffer, 250 μ l ROX Reference Dye, 1.9 μ l RNase-Free Water | 208152 |
| QuantiNova SYBR Green PCR Kit (100)* | For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ 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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