

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

Mouse Transcription Factors

Cat. no. 249955 UPMM-075ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light 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 Probe PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA Probe PCR Handbook at www.qiagen.com for further details.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|--------|-------|--------|--------|----------|--------|--------|--------|--------|-------|-------|---------|
| A | Ar | Arnt | Aif1 | Aif2 | Aif3 | Aif4 | Cebpa | Cebpb | Cebpg | Cisrp | Creb1 | Crebbp |
| B | Cttnb1 | Dr1 | E2f1 | E2f6 | Egr1 | Esr1 | Ets1 | Ets2 | Fos | Foxa2 | Foxp1 | Gata1 |
| C | Gata2 | Gata3 | Gli1 | Gli2b | Gli2f1 | Hand1 | Hand2 | Hdac1 | Hif1a | Hnf1a | Hnf4a | Hoxa5 |
| D | Hsf1 | Id1 | Irf1 | Jun | Junb | Jund | Kcnn8 | Max | Mef2a | Mef2b | Mef2c | Myc |
| E | Myf5 | Myod1 | Nanos2 | Nfat5 | Nfat2 | Nfatc3 | Nfatc4 | Nfkb1 | Nfyb | Nr3c1 | Pax6 | Pou2af1 |
| F | Ppara | Pparg | Rb1 | Rel | Rela | Smad1 | Smad4 | Smad5 | Smad9 | Sp1 | Sp3 | Stat1 |
| G | Stat2 | Stat3 | Stat4 | Stat5a | Stat5b | Stat6 | Tbp | Tcf7l2 | Tlap2a | Tgfr1 | Trp53 | Yy1 |
| H | Actb | B2m | Gapdh | Gusb | Hsp90ab1 | MGDC | QIC | QIC | QIC | PPC | PPC | PPC |

Gene table: QuantiNova LNA Probe PCR Focus Panel

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|-----------------|---------------------------|--------|------------------------|---|
| A01 | UPFM078422 2 | ENSMUST00000 052837.8 | Ar | ENSMUSG00 000046532 | androgen receptor Source MGI Symbol Acc MGI 88064 |
| A02 | UPFM084244 6 | ENSMUST00000 156653.7 | Arnt | ENSMUSG00 000015522 | aryl hydrocarbon receptor nuclear translocator Source MGI Symbol Acc MGI 88071 |
| A03 | UPFM083308 8 | ENSMUST00000 172154.7 | Atf1 | ENSMUSG00 000023027 | activating transcription factor 1 Source MGI Symbol Acc MGI 1298366 |
| A04 | UPFM100059 0 | ENSMUST00000 154456.7 | Atf2 | ENSMUSG00 000027104 | activating transcription factor 2 Source MGI Symbol Acc MGI 109349 |
| A05 | UPFM099470 5 | ENSMUST00000 027941.13 | Atf3 | ENSMUSG00 000026628 | activating transcription factor 3 Source MGI Symbol Acc MGI 109384 |
| A06 | UPFM075251 7 | ENSMUST00000 229828.1 | Atf4 | ENSMUSG00 000042406 | activating transcription factor 4 Source MGI Symbol Acc MGI 88096 |
| A07 | UPFM099260 7 | ENSMUST00000 042985.10 | Cebpa | ENSMUSG00 000034957 | CCAAT/enhancer binding protein (C/EBP), alpha Source MGI Symbol Acc MGI 99480 |
| A08 | UPFM117294 0 | ENSMUST00000 070642.3 | Cebpb | ENSMUSG00 000056501 | CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373 |
| A09 | UPFM081494 5 | ENSMUST00000 130491.2 | Cebpg | ENSMUSG00 000056216 | CCAAT/enhancer binding protein (C/EBP), gamma Source MGI Symbol Acc MGI 104982 |
| A10 | UPFM099157 3 | ENSMUST00000 207907.1 | Clasrp | ENSMUSG00 000061028 | CLK4-associating serine/arginine rich protein Source MGI Symbol Acc MGI 1855695 |
| A11 | UPFM085293 8 | ENSMUST00000 087366.10 | Creb1 | ENSMUSG00 000025958 | cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494 |
| A12 | UPFM086770 7 | ENSMUST00000 206098.1 | Crebbp | ENSMUSG00 000022521 | CREB binding protein Source MGI Symbol Acc MGI 1098280 |
| B01 | UPFM098586 3 | ENSMUST00000 154356.7 | Ctnnb1 | ENSMUSG00 000006932 | catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276 |
| B02 | UPFM073651 0 | ENSMUST00000 031190.4 | Dr1 | ENSMUSG00 000029265 | down-regulator of transcription 1 Source MGI Symbol Acc MGI 1100515 |
| B03 | UPFM066128 0 | ENSMUST00000 000894.5 | E2f1 | ENSMUSG00 000027490 | E2F transcription factor 1 Source MGI Symbol Acc MGI 101941 |
| B04 | UPFM070565 3 | ENSMUST00000 220707.1 | E2f6 | ENSMUSG00 000057469 | E2F transcription factor 6 Source MGI Symbol Acc MGI 1354159 |
| B05 | UPFM085434 3 | ENSMUST00000 165033.1 | Egr1 | ENSMUSG00 000038418 | early growth response 1 Source MGI Symbol Acc MGI 95295 |
| B06 | UPFM083226 3 | ENSMUST00000 105590.7 | Esr1 | ENSMUSG00 000019768 | estrogen receptor 1 (alpha) Source MGI Symbol Acc MGI 1352467 |
| B07 | UPFM073575 5 | ENSMUST00000 034534.12 | Ets1 | ENSMUSG00 000032035 | E26 avian leukemia oncogene 1, 5 domain Source MGI Symbol Acc MGI 95455 |
| B08 | UPFM097328 1 | ENSMUST00000 023612.16 | Ets2 | ENSMUSG00 000022895 | E26 avian leukemia oncogene 2, 3 domain Source MGI Symbol Acc MGI 95456 |
| B09 | UPFM076456 3 | ENSMUST00000 136122.7 | Fos | ENSMUSG00 000021250 | FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574 |
| B10 | UPFM066808 0 | ENSMUST00000 109964.7 | Foxa2 | ENSMUSG00 000037025 | forkhead box A2 Source MGI Symbol Acc MGI 1347476 |
| B11 | UPFM070685 1 | ENSMUST00000 179669.2 | Foxg1 | ENSMUSG00 000020950 | forkhead box G1 Source MGI Symbol Acc MGI 1347464 |
| B12 | UPFM071598 7 | ENSMUST00000 033502.13 | Gata1 | ENSMUSG00 000031162 | GATA binding protein 1 Source MGI Symbol Acc MGI 95661 |
| C01 | UPFM074268 8 | ENSMUST00000 203579.1 | Gata2 | ENSMUSG00 000015053 | GATA binding protein 2 Source MGI Symbol Acc MGI 95662 |
| C02 | UPFM070391 0 | ENSMUST00000 151456.1 | Gata3 | ENSMUSG00 000015619 | GATA binding protein 3 Source MGI Symbol Acc MGI 95663 |
| C03 | UPFM096364 2 | ENSMUST00000 218236.1 | Gli1 | ENSMUSG00 000025407 | GLI-Kruppel family member GLI1 Source MGI Symbol Acc MGI 95727 |
| C04 | UPFM084251 4 | ENSMUST00000 029938.9 | Gtf2b | ENSMUSG00 000028271 | general transcription factor IIB Source MGI Symbol Acc MGI 2385191 |
| C05 | UPFM080914 5 | ENSMUST00000 002733.6 | Gtf2f1 | ENSMUSG00 000002658 | general transcription factor IIF, polypeptide 1 Source MGI Symbol Acc MGI 1923848 |
| C06 | UPFM078237 6 | ENSMUST00000 160392.8 | Hand1 | ENSMUSG00 000037335 | heart and neural crest derivatives expressed 1 Source MGI Symbol Acc MGI 103577 |
| C07 | UPFM078133 8 | ENSMUST00000 040104.4 | Hand2 | ENSMUSG00 000038193 | heart and neural crest derivatives expressed 2 Source MGI Symbol Acc MGI 103580 |
| C08 | UPFM093590 7 | ENSMUST00000 125718.7 | Hdac1 | ENSMUSG00 000028800 | histone deacetylase 1 Source MGI Symbol Acc MGI 108086 |
| C09 | UPFM090240 6 | ENSMUST00000 110461.7 | Hif1a | ENSMUSG00 000021109 | hypoxia inducible factor 1, alpha subunit Source MGI Symbol Acc MGI 106918 |
| C10 | UPFM090592 7 | ENSMUST00000 176911.7 | Hnf1a | ENSMUSG00 000029556 | HNF1 homeobox A Source MGI Symbol Acc MGI 98504 |
| | UPFM089220 | ENSMUST00000 | | ENSMUSG00 | |

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|-----------------|---------------------------|---------|------------------------|---|
| C11 | 5 | 137449.1 | Hnf4a | 000017950 | hepatic nuclear factor 4, alpha Source MGI Symbol Acc MGI 109128 |
| C12 | UPFM062254 0 | ENSMUST00000 048794.6 | Hoxa5 | ENSMUSG00 000038253 | homeobox A5 Source MGI Symbol Acc MGI 96177 |
| D01 | UPFM070667 3 | ENSMUST00000 226872.1 | Hsf1 | ENSMUSG00 000022556 | heat shock factor 1 Source MGI Symbol Acc MGI 96238 |
| D02 | UPFM085834 2 | ENSMUST00000 109824.1 | Id1 | ENSMUSG00 000042745 | inhibitor of DNA binding 1 Source MGI Symbol Acc MGI 96396 |
| D03 | UPFM062425 2 | ENSMUST00000 142221.7 | Irf1 | ENSMUSG00 000018899 | interferon regulatory factor 1 Source MGI Symbol Acc MGI 96590 |
| D04 | UPFM097521 6 | ENSMUST00000 107094.1 | Jun | ENSMUSG00 000052684 | jun proto-oncogene Source MGI Symbol Acc MGI 96646 |
| D05 | UPFM090452 1 | ENSMUST00000 064922.6 | Junb | ENSMUSG00 000052837 | jun B proto-oncogene Source MGI Symbol Acc MGI 96647 |
| D06 | UPFM100589 8 | ENSMUST00000 095267.5 | Jund | ENSMUSG00 000071076 | jun D proto-oncogene Source MGI Symbol Acc MGI 96648 |
| D07 | UPFM068955 6 | ENSMUST00000 184279.1 | Kcnh8 | ENSMUSG00 000035580 | potassium voltage-gated channel, subfamily H (eag-related), member 8 Source MGI Symbol Acc MGI 2445160 |
| D08 | UPFM092134 0 | ENSMUST00000 110395.10 | Max | ENSMUSG00 000059436 | Max protein Source MGI Symbol Acc MGI 96921 |
| D09 | UPFM094947 9 | ENSMUST00000 156690.7 | Mef2a | ENSMUSG00 000030557 | myocyte enhancer factor 2A Source MGI Symbol Acc MGI 99532 |
| D10 | UPFM098317 5 | ENSMUST00000 163756.1 | Mef2b | ENSMUSG00 000079033 | myocyte enhancer factor 2B Source MGI Symbol Acc MGI 104526 |
| D11 | UPFM062873 4 | ENSMUST00000 199262.1 | Mef2c | ENSMUSG00 000005583 | myocyte enhancer factor 2C Source MGI Symbol Acc MGI 99458 |
| D12 | UPFM081421 4 | ENSMUST00000 161976.7 | Myc | ENSMUSG00 000022346 | myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250 |
| E01 | UPFM080954 1 | ENSMUST00000 000445.1 | Myf5 | ENSMUSG00 000000435 | myogenic factor 5 Source MGI Symbol Acc MGI 97252 |
| E02 | UPFM063561 8 | ENSMUST00000 072514.2 | Myod1 | ENSMUSG00 000009471 | myogenic differentiation 1 Source MGI Symbol Acc MGI 97275 |
| E03 | UPFM071109 7 | ENSMUST00000 063563.8 | Nanos2 | ENSMUSG00 000051965 | nanos C2HC-type zinc finger 2 Source MGI Symbol Acc MGI 2676627 |
| E04 | UPFM079466 4 | ENSMUST00000 125721.7 | Nfat5 | ENSMUSG00 000003847 | nuclear factor of activated T cells 5 Source MGI Symbol Acc MGI 1859333 |
| E05 | UPFM080568 2 | ENSMUST00000 099067.9 | Nfatc2 | ENSMUSG00 000027544 | nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2 Source MGI Symbol Acc MGI 102463 |
| E06 | UPFM066089 7 | ENSMUST00000 109308.2 | Nfatc3 | ENSMUSG00 000031902 | nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3 Source MGI Symbol Acc MGI 103296 |
| E07 | UPFM098815 8 | ENSMUST00000 024179.5 | Nfatc4 | ENSMUSG00 000023411 | nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4 Source MGI Symbol Acc MGI 1920431 |
| E08 | UPFM098758 7 | ENSMUST00000 029812.13 | Nfkb1 | ENSMUSG00 000028163 | nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312 |
| E09 | UPFM076344 3 | ENSMUST00000 142523.1 | Nfya | ENSMUSG00 000020248 | nuclear transcription factor-Y beta Source MGI Symbol Acc MGI 97317 |
| E10 | UPFM075838 6 | ENSMUST00000 097592.8 | Nr3c1 | ENSMUSG00 000024431 | nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824 |
| E11 | UPFM072669 9 | ENSMUST00000 111085.7 | Pax6 | ENSMUSG00 000027168 | paired box 6 Source MGI Symbol Acc MGI 97490 |
| E12 | UPFM096914 5 | ENSMUST00000 214322.1 | Pou2af1 | ENSMUSG00 000032053 | POU domain, class 2, associating factor 1 Source MGI Symbol Acc MGI 105086 |
| F01 | UPFM096943 9 | ENSMUST00000 138813.7 | Ppara | ENSMUSG00 000022383 | peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740 |
| F02 | UPFM084296 6 | ENSMUST00000 203732.2 | Pparg | ENSMUSG00 000000440 | peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747 |
| F03 | UPFM077278 8 | ENSMUST00000 022701.6 | Rb1 | ENSMUSG00 000022105 | RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874 |
| F04 | UPFM068973 8 | ENSMUST00000 102864.4 | Rel | ENSMUSG00 000020275 | reticuloendotheliosis oncogene Source MGI Symbol Acc MGI 97897 |
| F05 | UPFM081915 5 | ENSMUST00000 025867.5 | Rela | ENSMUSG00 000024927 | v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290 |
| F06 | UPFM099034 9 | ENSMUST00000 210678.1 | Smad1 | ENSMUSG00 000031681 | SMAD family member 1 Source MGI Symbol Acc MGI 109452 |
| F07 | UPFM098632 8 | ENSMUST00000 114939.1 | Smad4 | ENSMUSG00 000024515 | SMAD family member 4 Source MGI Symbol Acc MGI 894293 |
| F08 | UPFM067573 6 | ENSMUST00000 109876.7 | Smad5 | ENSMUSG00 000021540 | SMAD family member 5 Source MGI Symbol Acc MGI 1328787 |
| F09 | UPFM096812 7 | ENSMUST00000 029371.2 | Smad9 | ENSMUSG00 000027796 | SMAD family member 9 Source MGI Symbol Acc MGI 1859993 |
| F10 | UPFM083079 3 | ENSMUST00000 001326.6 | Sp1 | ENSMUSG00 000001280 | trans-acting transcription factor 1 Source MGI Symbol Acc MGI 98372 |

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|-----------------|---------------------------|----------|------------------------|---|
| F11 | UPFM073134 1 | ENSMUST00000 129565.1 | Sp3 | ENSMUSG00 000027109 | trans-acting transcription factor 3 Source MGI Symbol Acc MGI 1277166 |
| F12 | UPFM071531 5 | ENSMUST00000 186574.6 | Stat1 | ENSMUSG00 000026104 | signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063 |
| G01 | UPFM064876 8 | ENSMUST00000 217852.1 | Stat2 | ENSMUSG00 000040033 | signal transducer and activator of transcription 2 Source MGI Symbol Acc MGI 103039 |
| G02 | UPFM098484 5 | ENSMUST00000 092671.11 | Stat3 | ENSMUSG00 000004040 | signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038 |
| G03 | UPFM062533 9 | ENSMUST00000 168302.7 | Stat4 | ENSMUSG00 000062939 | signal transducer and activator of transcription 4 Source MGI Symbol Acc MGI 103062 |
| G04 | UPFM096618 6 | ENSMUST00000 138083.7 | Stat5a | ENSMUSG00 000004043 | signal transducer and activator of transcription 5A Source MGI Symbol Acc MGI 103036 |
| G05 | UPFM070808 3 | ENSMUST00000 004143.2 | Stat5b | ENSMUSG00 000020919 | signal transducer and activator of transcription 5B Source MGI Symbol Acc MGI 103035 |
| G06 | UPFM075580 6 | ENSMUST00000 092074.11 | Stat6 | ENSMUSG00 000002147 | signal transducer and activator of transcription 6 Source MGI Symbol Acc MGI 103034 |
| G07 | UPFM086254 8 | ENSMUST00000 162505.7 | Tbp | ENSMUSG00 000014767 | TATA box binding protein Source MGI Symbol Acc MGI 101838 |
| G08 | UPFM098825 9 | ENSMUST00000 142291.7 | Tcf7l2 | ENSMUSG00 000024985 | transcription factor 7 like 2, T cell specific, HMG box Source MGI Symbol Acc MGI 1202879 |
| G09 | UPFM074872 1 | ENSMUST00000 021787.6 | Tfap2a | ENSMUSG00 000021359 | transcription factor AP-2, alpha Source MGI Symbol Acc MGI 104671 |
| G10 | UPFM091450 6 | ENSMUST00000 059775.14 | Tgif1 | ENSMUSG00 000047407 | TGFB-induced factor homeobox 1 Source MGI Symbol Acc MGI 1194497 |
| G11 | UPFM066913 3 | ENSMUST00000 171247.7 | Trp53 | ENSMUSG00 000059552 | transformation related protein 53 Source MGI Symbol Acc MGI 98834 |
| G12 | UPFM086946 3 | ENSMUST00000 126912.1 | Yy1 | ENSMUSG00 000021264 | YY1 transcription factor Source MGI Symbol Acc MGI 99150 |
| H01 | UPFM113294 6 | ENSMUST00000 163829.1 | Actb | ENSMUSG00 000029580 | actin, beta Source MGI Symbol Acc MGI 87904 |
| H02 | UPFM113294 7 | ENSMUST00000 102476.4 | B2m | ENSMUSG00 000060802 | beta-2 microglobulin Source MGI Symbol Acc MGI 88127 |
| H03 | UPFM113294 8 | ENSMUST00000 117757.8 | Gapdh | ENSMUSG00 000057666 | glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640 |
| H04 | UPFM113294 9 | ENSMUST00000 026613.13 | Gusb | ENSMUSG00 000025534 | glucuronidase, beta Source MGI Symbol Acc MGI 95872 |
| H05 | UPFM113295 0 | ENSMUST00000 166469.7 | Hsp90ab1 | ENSMUSG00 000023944 | heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247 |
| H06 | UPFM112660 9 | UPL_MGDC | MGDC | UPL_MGDC | Mouse Genomic DNA Contamination |
| H07 | UPFH1126606 | UPL_QIC | QIC | UPL_QIC | QuantiNova Internal Control |
| H08 | UPFH1126606 | UPL_QIC | QIC | UPL_QIC | QuantiNova Internal Control |
| H09 | UPFH1126606 | UPL_QIC | QIC | UPL_QIC | QuantiNova Internal Control |
| H10 | UPFH1126605 | UPL_PPC | PPC | UPL_PPC | Positive PCR Control |
| H11 | UPFH1126605 | UPL_PPC | PPC | UPL_PPC | Positive PCR Control |
| H12 | UPFH1126605 | UPL_PPC | PPC | UPL_PPC | Positive PCR Control |



Related products

| Product | Contents | Cat. no. |
|--|--|----------|
| QuantiNova LNA Probe PCR QC Panel | These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats | 249945 |
| 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 Probe RT-PCR Kit (100)* | For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe 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 | 208352 |
| QuantiNova Probe PCR Kit (100)* | For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water | 208252 |

*Larger kit sizes available.

The QuantiNova LNA Probe 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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