

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

Mouse Angiogenic Growth Factors

Cat. no. 249955 UPMM-072ZR

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 (Rotor-Gene): QuantiNova LNA Probe 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 Probe PCR Handbook at www.qiagen.com for further details.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|--------|-------|--------|----------|----------|----------|---------|---------|--------|-------|-------|-------|
| A | Adams1 | Aggf1 | Amot | Angpt1 | Angpt2 | Angptl1 | Angptl3 | Angptl4 | Adgrb1 | Btg1 | Cd55 | Cd59b |
| B | Cga | Chga | Cited1 | Col18a1 | Col4a3 | Ctrhr2 | Csf3 | Cxcl10 | Cxcl2 | Edil3 | Egfl7 | Erap1 |
| C | Erb2 | Ereg | Fgf1 | Fgf2 | Vegfd | Fn1 | Foxf1 | Foxm1 | Foxo4 | Fst | Glnn | Grn |
| D | Hey1 | Hey2 | Hgf | Hpse | Ifnb1 | Ifng | Il12a | Il12b | Kdr | Lep | Mdk | Myocd |
| E | Nlr2 | Pdgfb | Pf4 | Pgf | Plg | Prl | Prl7d1 | Ptn | Ptprj | Qk | Rasa1 | Rhob |
| F | Rnase4 | Rnh1 | Runx1 | Serpinc1 | Serpine1 | Serpinf1 | Shh | Smo | Stab1 | Tdgf1 | Tgfa | Tgfb1 |
| G | Thbs1 | Tie1 | Timp1 | Timp2 | Timp3 | Timp4 | Tnf | Tnni2 | Tnni3 | Vegfa | Wars2 | Wt1 |
| 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 | UPFM066463 0 | ENSMUST00000 125897.1 | Adams1 | ENSMUSG00 000022893 | a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 1 Source MGI Symbol Acc MGI 109249 |
| A02 | UPFM071650 5 | ENSMUST00000 161671.1 | Aggf1 | ENSMUSG00 000021681 | angiogenic factor with G patch and FHA domains 1 Source MGI Symbol Acc MGI 1913799 |
| A03 | UPFM087877 7 | ENSMUST00000 112836.8 | Amot | ENSMUSG00 000041688 | angiomatin Source MGI Symbol Acc MGI 108440 |
| A04 | UPFM071478 8 | ENSMUST00000 022921.6 | Angpt1 | ENSMUSG00 000022309 | angiopoietin 1 Source MGI Symbol Acc MGI 108448 |
| A05 | UPFM074499 5 | ENSMUST00000 170200.1 | Angpt2 | ENSMUSG00 000031465 | angiopoietin 2 Source MGI Symbol Acc MGI 1202890 |
| A06 | UPFM081669 3 | ENSMUST00000 111720.1 | Angptl1 | ENSMUSG00 000033544 | angiopoietin-like 1 Source MGI Symbol Acc MGI 1919963 |
| A07 | UPFM099541 9 | ENSMUST00000 030280.6 | Angptl3 | ENSMUSG00 000028553 | angiopoietin-like 3 Source MGI Symbol Acc MGI 1353627 |
| A08 | UPFM095383 3 | ENSMUST00000 174872.1 | Angptl4 | ENSMUSG00 000002289 | angiopoietin-like 4 Source MGI Symbol Acc MGI 1888999 |
| A09 | UPFM081704 4 | ENSMUST00000 189353.6 | Adgrb1 | ENSMUSG00 000034730 | adhesion G protein-coupled receptor B1 Source MGI Symbol Acc MGI 1933736 |
| A10 | UPFM080980 9 | ENSMUST00000 218953.1 | Btg1 | ENSMUSG00 000036478 | B cell translocation gene 1, anti-proliferative Source MGI Symbol Acc MGI 88215 |
| A11 | UPFM098904 0 | ENSMUST00000 122830.1 | Cd55 | ENSMUSG00 000026399 | CD55 molecule, decay accelerating factor for complement Source MGI Symbol Acc MGI 104850 |
| A12 | UPFM088773 8 | ENSMUST00000 111132.7 | Cd59b | ENSMUSG00 000068686 | CD59b antigen Source MGI Symbol Acc MGI 1888996 |
| B01 | UPFM088755 0 | ENSMUST00000 029975.9 | Cga | ENSMUSG00 000028298 | glycoprotein hormones, alpha subunit Source MGI Symbol Acc MGI 88390 |
| B02 | UPFM068399 9 | ENSMUST00000 223100.1 | Chga | ENSMUSG00 000021194 | chromogranin A Source MGI Symbol Acc MGI 88394 |
| B03 | UPFM080624 5 | ENSMUST00000 130589.1 | Cited1 | ENSMUSG00 000051159 | Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1 Source MGI Symbol Acc MGI 108023 |
| B04 | UPFM064280 3 | ENSMUST00000 072755.11 | Col18a1 | ENSMUSG00 000001435 | collagen, type XVIII, alpha 1 Source MGI Symbol Acc MGI 88451 |
| B05 | UPFM077676 4 | ENSMUST00000 125563.7 | Col4a3 | ENSMUSG00 000079465 | collagen, type IV, alpha 3 Source MGI Symbol Acc MGI 104688 |
| B06 | UPFM093165 3 | ENSMUST00000 212633.1 | Crh2 | ENSMUSG00 000003476 | corticotropin releasing hormone receptor 2 Source MGI Symbol Acc MGI 894312 |
| B07 | UPFM089304 3 | ENSMUST00000 038886.2 | Csf3 | ENSMUSG00 000038067 | colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751 |
| B08 | UPFM098980 6 | ENSMUST00000 038816.12 | Cxcl10 | ENSMUSG00 000034855 | chemokine (C-X-C motif) ligand 10 Source MGI Symbol Acc MGI 1352450 |
| B09 | UPFM067324 0 | ENSMUST00000 200919.1 | Cxcl2 | ENSMUSG00 000058427 | chemokine (C-X-C motif) ligand 2 Source MGI Symbol Acc MGI 1340094 |
| B10 | UPFM064919 0 | ENSMUST00000 153974.7 | Edil3 | ENSMUSG00 000034488 | EGF-like repeats and discoidin I-like domains 3 Source MGI Symbol Acc MGI 1329025 |
| B11 | UPFM083051 9 | ENSMUST00000 147351.2 | Egfl7 | ENSMUSG00 000026921 | EGF-like domain 7 Source MGI Symbol Acc MGI 2449923 |
| B12 | UPFM093130 2 | ENSMUST00000 220594.1 | Erap1 | ENSMUSG00 000021583 | endoplasmic reticulum aminopeptidase 1 Source MGI Symbol Acc MGI 1933403 |
| C01 | UPFM099508 8 | ENSMUST00000 136032.1 | Erb2 | ENSMUSG00 000062312 | erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410 |
| C02 | UPFM069297 7 | ENSMUST00000 031324.5 | Ereg | ENSMUSG00 000029377 | epiregulin Source MGI Symbol Acc MGI 107508 |
| C03 | UPFM088976 4 | ENSMUST00000 139972.1 | Fgf1 | ENSMUSG00 000036585 | fibroblast growth factor 1 Source MGI Symbol Acc MGI 95515 |
| C04 | UPFM073062 9 | ENSMUST00000 145228.1 | Fgf2 | ENSMUSG00 000037225 | fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516 |
| C05 | UPFM097949 5 | ENSMUST00000 033751.7 | Vegfd | ENSMUSG00 000031380 | vascular endothelial growth factor D Source MGI Symbol Acc MGI 108037 |
| C06 | UPFM086511 0 | ENSMUST00000 188894.6 | Fn1 | ENSMUSG00 000026193 | fibronectin 1 Source MGI Symbol Acc MGI 95566 |
| C07 | UPFM082662 2 | ENSMUST00000 181504.1 | Foxf1 | ENSMUSG00 000042812 | forkhead box F1 Source MGI Symbol Acc MGI 1347470 |
| C08 | UPFM094820 5 | ENSMUST00000 073316.12 | Foxm1 | ENSMUSG00 000001517 | forkhead box M1 Source MGI Symbol Acc MGI 1347487 |
| C09 | UPFM077322 2 | ENSMUST00000 150558.1 | Foxo4 | ENSMUSG00 000042903 | forkhead box O4 Source MGI Symbol Acc MGI 1891915 |
| C10 | UPFM064893 2 | ENSMUST00000 022287.7 | Fst | ENSMUSG00 000021765 | follistatin Source MGI Symbol Acc MGI 95586 |
| | UPFM097506 | ENSMUST00000 | | ENSMUSG00 | |

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|-------------|-----------------------|----------|-------------------|--|
| C11 | 4 | 100949.9 | Glmn | 000029276 | glomulin, FKBP associated protein Source MGI Symbol Acc MGI 2141180 |
| C12 | UPFM0748183 | ENSMUST00000129997.1 | Grn | ENSMUSG0000034708 | granulin Source MGI Symbol Acc MGI 95832 |
| D01 | UPFM1003195 | ENSMUST00000192102.1 | Hey1 | ENSMUSG0000040289 | hairly/enhancer-of-split related with YRPW motif 1 Source MGI Symbol Acc MGI 1341800 |
| D02 | UPFM0650734 | ENSMUST00000019924.8 | Hey2 | ENSMUSG0000019789 | hairly/enhancer-of-split related with YRPW motif 2 Source MGI Symbol Acc MGI 1341884 |
| D03 | UPFM0813020 | ENSMUST00000199900.1 | Hgf | ENSMUSG0000028864 | hepatocyte growth factor Source MGI Symbol Acc MGI 96079 |
| D04 | UPFM0811998 | ENSMUST00000112908.1 | Hpse | ENSMUSG0000035273 | heparanase Source MGI Symbol Acc MGI 1343124 |
| D05 | UPFM0639442 | ENSMUST00000055671.4 | Ifnb1 | ENSMUSG0000048806 | interferon beta 1, fibroblast Source MGI Symbol Acc MGI 107657 |
| D06 | UPFM1172950 | ENSMUST00000068592.4 | Ifng | ENSMUSG0000055170 | interferon gamma Source MGI Symbol Acc MGI 107656 |
| D07 | UPFM0831140 | ENSMUST00000029345.11 | Il12a | ENSMUSG0000027776 | interleukin 12a Source MGI Symbol Acc MGI 96539 |
| D08 | UPFM0785020 | ENSMUST00000170513.2 | Il12b | ENSMUSG0000004296 | interleukin 12b Source MGI Symbol Acc MGI 96540 |
| D09 | UPFM0781643 | ENSMUST00000113516.1 | Kdr | ENSMUSG0000062960 | kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683 |
| D10 | UPFM0686147 | ENSMUST00000169505.1 | Lep | ENSMUSG0000059201 | leptin Source MGI Symbol Acc MGI 104663 |
| D11 | UPFM0646398 | ENSMUST00000069423.12 | Mdk | ENSMUSG0000027239 | midkine Source MGI Symbol Acc MGI 96949 |
| D12 | UPFM0669749 | ENSMUST00000144399.2 | Myocd | ENSMUSG0000020542 | myocardin Source MGI Symbol Acc MGI 2137495 |
| E01 | UPFM0862157 | ENSMUST00000225583.1 | Ntrk2 | ENSMUSG0000055254 | neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384 |
| E02 | UPFM0815897 | ENSMUST00000229795.1 | Pdgfb | ENSMUSG0000000489 | platelet derived growth factor, B polypeptide Source MGI Symbol Acc MGI 97528 |
| E03 | UPFM0745919 | ENSMUST00000201990.1 | Pf4 | ENSMUSG0000029373 | platelet factor 4 Source MGI Symbol Acc MGI 1888711 |
| E04 | UPFM0804578 | ENSMUST00000222850.1 | Pgf | ENSMUSG0000004791 | placental growth factor Source MGI Symbol Acc MGI 105095 |
| E05 | UPFM0805374 | ENSMUST00000232767.1 | Plg | ENSMUSG0000059481 | plasminogen Source MGI Symbol Acc MGI 97620 |
| E06 | UPFM0976113 | ENSMUST00000110369.9 | Prl | ENSMUSG0000021342 | prolactin Source MGI Symbol Acc MGI 97762 |
| E07 | UPFM0767876 | ENSMUST00000224026.1 | Prl7d1 | ENSMUSG0000021348 | prolactin family 7, subfamily d, member 1 Source MGI Symbol Acc MGI 97619 |
| E08 | UPFM0793722 | ENSMUST00000101534.4 | Ptn | ENSMUSG0000029838 | pleiotrophin Source MGI Symbol Acc MGI 97804 |
| E09 | UPFM0851611 | ENSMUST00000111493.7 | Ptpri | ENSMUSG0000025314 | protein tyrosine phosphatase, receptor type, J Source MGI Symbol Acc MGI 104574 |
| E10 | UPFM0791040 | ENSMUST00000097414.10 | Qk | ENSMUSG0000062078 | quaking Source MGI Symbol Acc MGI 97837 |
| E11 | UPFM0974344 | ENSMUST00000142285.1 | Rasa1 | ENSMUSG0000021549 | RAS p21 protein activator 1 Source MGI Symbol Acc MGI 97860 |
| E12 | UPFM0927235 | ENSMUST00000067384.5 | Rhob | ENSMUSG0000054364 | ras homolog family member B Source MGI Symbol Acc MGI 107949 |
| F01 | UPFM0831134 | ENSMUST00000169895.2 | Rnase4 | ENSMUSG0000021876 | ribonuclease, RNase A family 4 Source MGI Symbol Acc MGI 1926217 |
| F02 | UPFM0688104 | ENSMUST00000210979.1 | Rnh1 | ENSMUSG0000038650 | ribonuclease/angiogenin inhibitor 1 Source MGI Symbol Acc MGI 1195456 |
| F03 | UPFM0728059 | ENSMUST00000113956.9 | Runx1 | ENSMUSG0000022952 | runt related transcription factor 1 Source MGI Symbol Acc MGI 99852 |
| F04 | UPFM0666111 | ENSMUST00000191936.1 | Serpinc1 | ENSMUSG0000026715 | serine (or cysteine) peptidase inhibitor, clade C (antithrombin), member 1 Source MGI Symbol Acc MGI 88095 |
| F05 | UPFM0707886 | ENSMUST00000041388.10 | Serpine1 | ENSMUSG0000037411 | serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608 |
| F06 | UPFM0721156 | ENSMUST00000168902.7 | Serpinf1 | ENSMUSG0000000753 | serine (or cysteine) peptidase inhibitor, clade F, member 1 Source MGI Symbol Acc MGI 108080 |
| F07 | UPFM0737070 | ENSMUST00000002708.4 | Shh | ENSMUSG0000002633 | sonic hedgehog Source MGI Symbol Acc MGI 98297 |
| F08 | UPFM1009634 | ENSMUST00000001812.4 | Smo | ENSMUSG0000001761 | smoothened, frizzled class receptor Source MGI Symbol Acc MGI 108075 |
| F09 | UPFM0766376 | ENSMUST00000159208.7 | Stab1 | ENSMUSG0000042286 | stabilin 1 Source MGI Symbol Acc MGI 2178742 |
| F10 | UPFM0990011 | ENSMUST00000035075.12 | Tdgf1 | ENSMUSG0000032494 | teratocarcinoma-derived growth factor 1 Source MGI Symbol Acc MGI 98658 |

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|-----------------|---------------------------|----------|------------------------|---|
| F11 | UPFM083464 2 | ENSMUST00000 192058.3 | Tgfa | ENSMUSG00 000029999 | transforming growth factor alpha Source MGI Symbol Acc MGI 98724 |
| F12 | UPFM066688 0 | ENSMUST00000 171757.1 | Tgfb1 | ENSMUSG00 000002603 | transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725 |
| G01 | UPFM072927 9 | ENSMUST00000 039559.8 | Thbs1 | ENSMUSG00 000040152 | thrombospondin 1 Source MGI Symbol Acc MGI 98737 |
| G02 | UPFM075305 4 | ENSMUST00000 047421.5 | Tie1 | ENSMUSG00 000033191 | tyrosine kinase with immunoglobulin-like and EGF-like domains 1 Source MGI Symbol Acc MGI 99906 |
| G03 | UPFM079676 3 | ENSMUST00000 009530.4 | Timp1 | ENSMUSG00 000001131 | tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752 |
| G04 | UPFM073508 3 | ENSMUST00000 017610.9 | Timp2 | ENSMUSG00 000017466 | tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753 |
| G05 | UPFM066788 6 | ENSMUST00000 020234.13 | Timp3 | ENSMUSG00 000020044 | tissue inhibitor of metalloproteinase 3 Source MGI Symbol Acc MGI 98754 |
| G06 | UPFM091836 6 | ENSMUST00000 032462.8 | Timp4 | ENSMUSG00 000030317 | tissue inhibitor of metalloproteinase 4 Source MGI Symbol Acc MGI 109125 |
| G07 | UPFM063847 1 | ENSMUST00000 025263.14 | Tnf | ENSMUSG00 000024401 | tumor necrosis factor Source MGI Symbol Acc MGI 104798 |
| G08 | UPFM097742 7 | ENSMUST00000 210239.1 | Tnni2 | ENSMUSG00 000031097 | troponin I, skeletal, fast 2 Source MGI Symbol Acc MGI 105070 |
| G09 | UPFM095507 3 | ENSMUST00000 154913.1 | Tnni3 | ENSMUSG00 000035458 | troponin I, cardiac 3 Source MGI Symbol Acc MGI 98783 |
| G10 | UPFM117296 6 | ENSMUST00000 214739.1 | Vegfa | ENSMUSG00 000023951 | vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178 |
| G11 | UPFM094961 7 | ENSMUST00000 126875.1 | Wars2 | ENSMUSG00 000004233 | tryptophanyl tRNA synthetase 2 (mitochondrial) Source MGI Symbol Acc MGI 1917810 |
| G12 | UPFM100747 1 | ENSMUST00000 111098.7 | Wt1 | ENSMUSG00 000016458 | Wilms tumor 1 homolog Source MGI Symbol Acc MGI 98968 |
| 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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