

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

Rat Glucocorticoid Signaling

Cat. no. 249955 UPRN-154ZA

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 | Adarb1 | Aff1 | Ak2 | Ampd3 | Angptl4 | Anxa4 | Aqp1 | Arid5b | Asph | Aif4 | Bcl6 | Bmp1r |
| B | Calcr | Cebpa | Cebpb | Col4a2 | Creb1 | Creb3 | Creb3l4 | Ccn2 | Cyb561 | Ddit4 | Diras2 | Dusp1 |
| C | Edn1 | Ehd3 | Errfi1 | Fkbp5 | Fosl2 | Gdgd1 | Ghrhr | Glul | Got1 | H6pd | Has2 | Hnrnp1l |
| D | Il10 | Il1rn | Il6 | Il6r | Klf13 | Klf9 | Lox | Merlk | AC128848.1 | Mt2a | Nfkbia | AABR0703175 6.1 |
| E | Pdcd7 | Pdgfrb | Pdp1 | Per1 | Per2 | Pik3r1 | Plid1 | Plekhf1 | Pou2f1 | Pou2f2 | Raso3 | Rgs2 |
| F | Rhob | Rhoj | Seen1 | Sgk1 | Slc10a6 | Slc19a2 | Slc22a5 | Snta1 | Sphk1 | Spsb1 | Stat5a | Stat5b |
| G | Tbl1xr1 | LOC1036943 80 | Tp53inp1 | Tsc22d3 | Usp2 | Usp54 | Vdr | Vldlr | Xdh | Zfp281 | Zfp36 | Zhx3 |
| H | Actb | B2m | Hprt1 | Ldha | Rplp1 | RGDC | QIC | QIC | QIC | PPC | PPC | PPC |

Gene table: QuantiNova LNA Probe PCR Focus Panel

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|-------------|----------------------|---------|-------------------|---|
| A01 | UPFR1106967 | ENSRNOT00000083851.1 | Adarb1 | ENSRNOG0000001227 | adenosine deaminase, RNA-specific, B1 Source RGD Symbol Acc 2033 |
| A02 | UPFR1083552 | ENSRNOT00000086694.1 | Aff1 | ENSRNOG0000002232 | AF4/FMR2 family, member 1 Source RGD Symbol Acc 1307940 |
| A03 | UPFR1082432 | ENSRNOT00000000134.4 | Ak2 | ENSRNOG0000000122 | adenylate kinase 2 Source RGD Symbol Acc 2077 |
| A04 | UPFR1076802 | ENSRNOT00000024933.5 | Ampd3 | ENSRNOG0000018262 | adenosine monophosphate deaminase 3 Source RGD Symbol Acc 2111 |
| A05 | UPFR1032714 | ENSRNOT00000010031.6 | Angptl4 | ENSRNOG0000007545 | angiotensin-like 4 Source RGD Symbol Acc 735058 |
| A06 | UPFR1043232 | ENSRNOT00000024436.7 | Anxa4 | ENSRNOG0000018159 | annexin A4 Source RGD Symbol Acc 621171 |
| A07 | UPFR1107660 | ENSRNOT00000015692.2 | Aqp1 | ENSRNOG0000011648 | aquaporin 1 Source RGD Symbol Acc 2141 |
| A08 | UPFR1055558 | ENSRNOT00000076069.1 | Arid5b | ENSRNOG0000000635 | AT-rich interaction domain 5B Source RGD Symbol Acc 1311735 |
| A09 | UPFR1056790 | ENSRNOT00000076426.2 | Asph | ENSRNOG0000007445 | aspartate-beta-hydroxylase Source RGD Symbol Acc 1312000 |
| A10 | UPFR1067882 | ENSRNOT00000065304.4 | Atf4 | ENSRNOG0000017801 | activating transcription factor 4 Source RGD Symbol Acc 621863 |
| A11 | UPFR1043878 | ENSRNOT00000002522.4 | Bcl6 | ENSRNOG0000001843 | BCL6, transcription repressor Source RGD Symbol Acc 1309345 |
| A12 | UPFR1056705 | ENSRNOT00000033460.5 | Bmper | ENSRNOG0000015357 | BMP-binding endothelial regulator Source RGD Symbol Acc 1563373 |
| B01 | UPFR1111223 | ENSRNOT00000013910.7 | Calcr | ENSRNOG0000010053 | calcitonin receptor Source RGD Symbol Acc 621001 |
| B02 | UPFR1048419 | ENSRNOT00000014517.5 | Cebpa | ENSRNOG0000010918 | CCAAT/enhancer binding protein alpha Source RGD Symbol Acc 2326 |
| B03 | UPFR1126579 | ENSRNOT00000083876.1 | Cebpb | ENSRNOG0000057347 | CCAAT/enhancer binding protein beta Source RGD Symbol Acc 2327 |
| B04 | UPFR1101722 | ENSRNOT00000057461.4 | Col4a2 | ENSRNOG0000023972 | collagen type IV alpha 2 chain Source RGD Symbol Acc 1308085 |
| B05 | UPFR1042088 | ENSRNOT00000018326.5 | Creb1 | ENSRNOG0000013412 | cAMP responsive element binding protein 1 Source RGD Symbol Acc 620218 |
| B06 | UPFR1100959 | ENSRNOT00000065909.1 | Creb3 | ENSRNOG0000016452 | cAMP responsive element binding protein 3 Source RGD Symbol Acc 1308831 |
| B07 | UPFR1093577 | ENSRNOT00000032062.4 | Creb3l4 | ENSRNOG0000023493 | cAMP responsive element binding protein 3-like 4 Source RGD Symbol Acc 1359278 |
| B08 | UPFR1047569 | ENSRNOT00000089196.1 | Ccn2 | ENSRNOG0000015036 | cellular communication network factor 2 Source RGD Symbol Acc 621392 |
| B09 | UPFR1045368 | ENSRNOT00000092738.1 | Cyb561 | ENSRNOG0000007433 | cytochrome b-561 Source RGD Symbol Acc 1310987 |
| B10 | UPFR1042623 | ENSRNOT00000085026.1 | Ddit4 | ENSRNOG0000057078 | DNA-damage-inducible transcript 4 Source RGD Symbol Acc 621731 |
| B11 | UPFR1051760 | ENSRNOT00000044842.2 | Diras2 | ENSRNOG0000032328 | DIRAS family GTPase 2 Source RGD Symbol Acc 1305580 |
| B12 | UPFR1053812 | ENSRNOT00000005383.5 | Dusp1 | ENSRNOG0000003977 | dual specificity phosphatase 1 Source RGD Symbol Acc 620897 |
| C01 | UPFR1035851 | ENSRNOT00000019361.2 | Edn1 | ENSRNOG0000014361 | endothelin 1 Source RGD Symbol Acc 2532 |
| C02 | UPFR1069753 | ENSRNOT00000084773.1 | Ehd3 | ENSRNOG0000007744 | EH-domain containing 3 Source RGD Symbol Acc 621762 |
| C03 | UPFR1086306 | ENSRNOT00000085315.1 | Errfi1 | ENSRNOG0000058186 | ERBB receptor feedback inhibitor 1 Source RGD Symbol Acc 1307599 |
| C04 | UPFR1119643 | ENSRNOT00000033119.5 | Fkbp5 | ENSRNOG0000022523 | FKBP prolyl isomerase 5 Source RGD Symbol Acc 1309155 |
| C05 | UPFR1050482 | ENSRNOT00000077894.1 | Fosl2 | ENSRNOG0000052357 | FOS like 2, AP-1 transcription factor subunit Source RGD Symbol Acc 2628 |
| C06 | UPFR1109023 | ENSRNOT00000088182.1 | Gdpd1 | ENSRNOG0000060561 | glycerophosphodiester phosphodiesterase domain containing 1 Source RGD Symbol Acc 1311813 |
| C07 | UPFR1033306 | ENSRNOT00000044578.2 | Ghrhr | ENSRNOG0000011808 | growth hormone releasing hormone receptor Source RGD Symbol Acc 2688 |
| C08 | UPFR1034243 | ENSRNOT00000075480.2 | Glul | ENSRNOG0000049560 | glutamate-ammonia ligase Source RGD Symbol Acc 2710 |
| C09 | UPFR1013305 | ENSRNOT00000022309.7 | Got1 | ENSRNOG0000016356 | glutamic-oxaloacetic transaminase 1 Source RGD Symbol Acc 2721 |
| C10 | UPFR1037030 | ENSRNOT00000023543.5 | H6pd | ENSRNOG0000017523 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) Source RGD Symbol Acc 1306562 |
| | | ENSRNOT000000 | | ENSRNOG00 | |

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|-------------|----------------------|----------------|-------------------|--|
| C11 | UPFR1126539 | 006517.4 | Has2 | 000004854 | hyaluronan synthase 2 Source RGD Symbol Acc 2781 |
| C12 | UPFR1059125 | ENSRNOT0000009175.6 | Hnrnp11 | ENSRNOG0000006929 | heterogeneous nuclear ribonucleoprotein L-like Source RGD Symbol Acc 1305861 |
| D01 | UPFR1113235 | ENSRNOT00000006246.5 | Il10 | ENSRNOG0000004647 | interleukin 10 Source RGD Symbol Acc 2886 |
| D02 | UPFR1086251 | ENSRNOT00000007949.6 | Il1rn | ENSRNOG0000005871 | interleukin 1 receptor antagonist Source RGD Symbol Acc 621159 |
| D03 | UPFR1098910 | ENSRNOT00000013732.6 | Il6 | ENSRNOG0000010278 | interleukin 6 Source RGD Symbol Acc 2901 |
| D04 | UPFR1035332 | ENSRNOT00000028234.7 | Il6r | ENSRNOG0000020811 | interleukin 6 receptor Source RGD Symbol Acc 2902 |
| D05 | UPFR1093616 | ENSRNOT00000066380.1 | Klf13 | ENSRNOG0000015822 | Kruppel-like factor 13 Source RGD Symbol Acc 1565099 |
| D06 | UPFR1014654 | ENSRNOT00000019367.2 | Klf9 | ENSRNOG0000014215 | Kruppel-like factor 9 Source RGD Symbol Acc 70934 |
| D07 | UPFR1106429 | ENSRNOT00000083881.1 | Lox | ENSRNOG0000014426 | lysyl oxidase Source RGD Symbol Acc 3015 |
| D08 | UPFR1079096 | ENSRNOT00000023419.4 | Mertk | ENSRNOG0000017319 | MER proto-oncogene, tyrosine kinase Source RGD Symbol Acc 69283 |
| D09 | UPFR1094214 | ENSRNOT00000038212.5 | AC128848.1 | ENSRNOG0000025764 | |
| D10 | UPFR1126576 | ENSRNOT00000067391.1 | Mt2A | ENSRNOG0000043098 | metallothionein 2A Source RGD Symbol Acc 1592345 |
| D11 | UPFR1024664 | ENSRNOT00000009894.6 | Nfkbia | ENSRNOG0000007390 | NFKB inhibitor alpha Source RGD Symbol Acc 3171 |
| D12 | UPFR1073381 | ENSRNOT00000044287.4 | AABR07031756.1 | ENSRNOG0000014096 | nuclear receptor subfamily 3, group C, member 1 Source NCBI gene Acc 24413 |
| E01 | UPFR1070677 | ENSRNOT00000019258.6 | Pcd7 | ENSRNOG0000014340 | programmed cell death 7 Source RGD Symbol Acc 1308961 |
| E02 | UPFR1052705 | ENSRNOT00000086033.1 | Pdgfrb | ENSRNOG0000018461 | platelet derived growth factor receptor beta Source RGD Symbol Acc 3285 |
| E03 | UPFR1023474 | ENSRNOT00000090376.1 | Pdp1 | ENSRNOG0000016180 | pyruvate dehydrogenase phosphatase catalytic subunit 1 Source RGD Symbol Acc 620393 |
| E04 | UPFR1058160 | ENSRNOT00000057136.3 | Per1 | ENSRNOG0000007387 | period circadian regulator 1 Source RGD Symbol Acc 727863 |
| E05 | UPFR1028891 | ENSRNOT00000027506.5 | Per2 | ENSRNOG0000020254 | period circadian regulator 2 Source RGD Symbol Acc 61945 |
| E06 | UPFR1035231 | ENSRNOT00000075057.1 | Pik3r1 | ENSRNOG0000018903 | phosphoinositide-3-kinase regulatory subunit 1 Source RGD Symbol Acc 3329 |
| E07 | UPFR1104627 | ENSRNOT00000039308.4 | Pld1 | ENSRNOG0000028156 | phospholipase D1 Source RGD Symbol Acc 3349 |
| E08 | UPFR1061379 | ENSRNOT00000020383.5 | Plekhf1 | ENSRNOG0000027724 | pleckstrin homology and FYVE domain containing 1 Source RGD Symbol Acc 1310544 |
| E09 | UPFR1101460 | ENSRNOT00000047488.5 | Pou2f1 | ENSRNOG0000003581 | POU class 2 homeobox 1 Source RGD Symbol Acc 621689 |
| E10 | UPFR1022410 | ENSRNOT00000084569.1 | Pou2f2 | ENSRNOG0000055650 | POU class 2 homeobox 2 Source RGD Symbol Acc 621690 |
| E11 | UPFR1049799 | ENSRNOT00000080963.2 | Rasa3 | ENSRNOG0000017671 | RAS p21 protein activator 3 Source RGD Symbol Acc 69365 |
| E12 | UPFR1098819 | ENSRNOT00000005156.6 | Rgs2 | ENSRNOG0000003687 | regulator of G-protein signaling 2 Source RGD Symbol Acc 621665 |
| F01 | UPFR1064942 | ENSRNOT00000008008.3 | Rhob | ENSRNOG0000021403 | ras homolog family member B Source RGD Symbol Acc 621309 |
| F02 | UPFR1054776 | ENSRNOT00000031979.4 | Rhoj | ENSRNOG0000021919 | ras homolog family member J Source RGD Symbol Acc 1310528 |
| F03 | UPFR1030781 | ENSRNOT00000089611.1 | Sesn1 | ENSRNOG0000000302 | sestrin 1 Source RGD Symbol Acc 1307517 |
| F04 | UPFR1039504 | ENSRNOT00000061157.3 | Sgk1 | ENSRNOG0000011815 | serum/glucocorticoid regulated kinase 1 Source RGD Symbol Acc 3668 |
| F05 | UPFR1068055 | ENSRNOT00000002819.3 | Slc10a6 | ENSRNOG0000002057 | solute carrier family 10 member 6 Source RGD Symbol Acc 727800 |
| F06 | UPFR1014572 | ENSRNOT00000076607.1 | Slc19a2 | ENSRNOG0000002839 | solute carrier family 19 member 2 Source RGD Symbol Acc 1308611 |
| F07 | UPFR1087896 | ENSRNOT00000081898.1 | Slc22a5 | ENSRNOG0000008432 | solute carrier family 22 member 5 Source RGD Symbol Acc 3702 |
| F08 | UPFR1090445 | ENSRNOT00000021715.6 | Snta1 | ENSRNOG0000016062 | syntrophin, alpha 1 Source RGD Symbol Acc 1307068 |
| F09 | UPFR1081482 | ENSRNOT00000032163.5 | Sphk1 | ENSRNOG0000010626 | sphingosine kinase 1 Source RGD Symbol Acc 620048 |
| F10 | UPFR1083595 | ENSRNOT00000085251.1 | Spsb1 | ENSRNOG0000017212 | splA/ryanodine receptor domain and SOCS box containing 1 Source RGD Symbol Acc 1309319 |

| Position | Assay | Name | Symbol | Ensembl ID | Description |
|----------|-------------|----------------------|--------------|-------------------|--|
| F11 | UPFR1042053 | ENSRNOT00000026662.3 | Stat5a | ENSRNOG0000019496 | signal transducer and activator of transcription 5A Source RGD Symbol Acc 3773 |
| F12 | UPFR1050387 | ENSRNOT00000026354.3 | Stat5b | ENSRNOG0000019075 | signal transducer and activator of transcription 5B Source RGD Symbol Acc 3774 |
| G01 | UPFR1042273 | ENSRNOT00000015573.4 | Tb11xr1 | ENSRNOG0000011216 | transducin (beta)-like 1 X-linked receptor 1 Source RGD Symbol Acc 1560053 |
| G02 | UPFR1098022 | ENSRNOT00000079677.1 | LOC103694380 | ENSRNOG0000055156 | tumor necrosis factor-like Source RGD Symbol Acc 9404643 |
| G03 | UPFR1071115 | ENSRNOT00000010591.4 | Tp53inp1 | ENSRNOG0000007964 | tumor protein p53 inducible nuclear protein 1 Source RGD Symbol Acc 631423 |
| G04 | UPFR1116390 | ENSRNOT00000085118.1 | Tsc22d3 | ENSRNOG0000056135 | TSC22 domain family, member 3 Source RGD Symbol Acc 621654 |
| G05 | UPFR1100788 | ENSRNOT00000009975.7 | Usp2 | ENSRNOG0000006663 | ubiquitin specific peptidase 2 Source RGD Symbol Acc 621073 |
| G06 | UPFR1047438 | ENSRNOT00000083467.1 | Usp54 | ENSRNOG0000027012 | ubiquitin specific peptidase 54 Source RGD Symbol Acc 1303206 |
| G07 | UPFR1048607 | ENSRNOT00000082429.1 | Vdr | ENSRNOG0000054420 | vitamin D receptor Source RGD Symbol Acc 3959 |
| G08 | UPFR1017568 | ENSRNOT00000035814.3 | Vldlr | ENSRNOG0000027491 | very low density lipoprotein receptor Source RGD Symbol Acc 3963 |
| G09 | UPFR1070658 | ENSRNOT00000009634.6 | Xdh | ENSRNOG0000007081 | xanthine dehydrogenase Source RGD Symbol Acc 62043 |
| G10 | UPFR1106527 | ENSRNOT00000088133.1 | Zfp281 | ENSRNOG0000058643 | zinc finger protein 281 Source RGD Symbol Acc 1305139 |
| G11 | UPFR1107092 | ENSRNOT00000090129.2 | Zfp36 | ENSRNOG0000058388 | zinc finger protein 36 Source RGD Symbol Acc 620722 |
| G12 | UPFR1126569 | ENSRNOT00000091208.1 | Zhx3 | ENSRNOG0000027988 | zinc fingers and homeoboxes 3 Source RGD Symbol Acc 631431 |
| H01 | UPFR1132952 | ENSRNOT00000080216.1 | Actb | ENSRNOG0000034254 | actin, beta Source RGD Symbol Acc 628837 |
| H02 | UPFR1132953 | ENSRNOT00000023017.5 | B2m | ENSRNOG0000017123 | beta-2 microglobulin Source RGD Symbol Acc 2189 |
| H03 | UPFR1132959 | ENSRNOT00000065935.3 | Hprt1 | ENSRNOG0000048561 | hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826 |
| H04 | UPFR1018740 | ENSRNOT00000017468.2 | Ldha | ENSRNOG0000013009 | lactate dehydrogenase A Source RGD Symbol Acc 2996 |
| H05 | UPFR1132958 | ENSRNOT00000018820.5 | Rplp1 | ENSRNOG0000013874 | ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774 |
| H06 | UPFR1126610 | UPL_RGDC | RGDC | UPL_RGDC | Rat 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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