

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

## Mouse Epigenetic Chromatin Remodeling Factors

Cat. no. 249950 SBMM-086ZA

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 (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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 | Arid1a | Arid2 | Asx1  | Baz1a | Baz1b    | Baz2a   | Baz2b   | Bmi1  | Bptf  | Brd1   | Brd2  | Brd3   |
| B | Brd4   | Brd7  | Brd8  | Brdt  | Brpf1    | Brpf3   | Brwd1   | Brwd3 | Cbx1  | Cbx2   | Cbx3  | Cbx4   |
| C | Cbx5   | Cbx6  | Cbx7  | Cbx8  | Cdyl     | Cdyl2   | Chd1    | Chd2  | Chd3  | Chd4   | Chd5  | Chd6   |
| D | Chd7   | Chd8  | Chd9  | Ctbp1 | Ctbp2    | Ctcf    | Eed     | Ezh2  | Hinf1 | Ing1   | Ing2  | Ing3   |
| E | Ing4   | Ing5  | Ino80 | Mbd1  | Mbd3     | Mbd4    | Meep2   | Mta1  | Mta2  | Nab2   | Nad1  | Pcgf1  |
| F | Pcgf2  | Pcgf3 | Pcgf5 | Pcgf6 | Phc1     | Phc2    | Phf1    | Phf13 | Phf2  | Phf21b | Phf3  | Phf5a  |
| G | Phf6   | Phf7  | Ring1 | Rnf2  | Smarca2  | Smarca4 | Smarca5 | Spen  | Suz12 | Trim27 | Wdr11 | Zmynd8 |
| 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      | SBM0764700 | ENSMUST00000145664.8  | Arid1a | ENSMUSG0000007880  | AT rich interactive domain 1A (SWI-like) Source MGI Symbol Acc MGI 1935147       |
| A02      | SBM0757289 | ENSMUST00000096250.4  | Arid2  | ENSMUSG00000033237 | AT rich interactive domain 2 (ARID, RFX-like) Source MGI Symbol Acc MGI 1924294  |
| A03      | SBM0703435 | ENSMUST00000144722.1  | Asx1   | ENSMUSG00000042548 | additional sex combs like 1 Source MGI Symbol Acc MGI 2684063                    |
| A04      | SBM0893646 | ENSMUST00000172875.7  | Baz1a  | ENSMUSG00000035021 | bromodomain adjacent to zinc finger domain 1A Source MGI Symbol Acc MGI 1309478  |
| A05      | SBM1059069 | ENSMUST00000136947.1  | Baz1b  | ENSMUSG00000002748 | bromodomain adjacent to zinc finger domain, 1B Source MGI Symbol Acc MGI 1353499 |
| A06      | SBM0869019 | ENSMUST00000218772.1  | Baz2a  | ENSMUSG0000040054  | bromodomain adjacent to zinc finger domain, 2A Source MGI Symbol Acc MGI 2151152 |
| A07      | SBM0882266 | ENSMUST00000152639.7  | Baz2b  | ENSMUSG00000026987 | bromodomain adjacent to zinc finger domain, 2B Source MGI Symbol Acc MGI 2442782 |
| A08      | SBM0925658 | ENSMUST00000150834.7  | Bmi1   | ENSMUSG00000026739 | Bmi1 polycomb ring finger oncogene Source MGI Symbol Acc MGI 88174               |
| A09      | SBM1079174 | ENSMUST00000147816.1  | Bpif   | ENSMUSG00000040481 | bromodomain PHD finger transcription factor Source MGI Symbol Acc MGI 2444008    |
| A10      | SBM1063109 | ENSMUST00000139515.1  | Brd1   | ENSMUSG00000022387 | bromodomain containing 1 Source MGI Symbol Acc MGI 1924161                       |
| A11      | SBM1012466 | ENSMUST00000025193.13 | Brd2   | ENSMUSG00000024335 | bromodomain containing 2 Source MGI Symbol Acc MGI 99495                         |
| A12      | SBM1045348 | ENSMUST00000028282.14 | Brd3   | ENSMUSG00000026918 | bromodomain containing 3 Source MGI Symbol Acc MGI 1914632                       |
| B01      | SBM0842815 | ENSMUST00000125899.1  | Brd4   | ENSMUSG00000024002 | bromodomain containing 4 Source MGI Symbol Acc MGI 1888520                       |
| B02      | SBM0743025 | ENSMUST00000146370.1  | Brd7   | ENSMUSG00000031660 | bromodomain containing 7 Source MGI Symbol Acc MGI 1349766                       |
| B03      | SBM0996715 | ENSMUST00000145431.1  | Brd8   | ENSMUSG0000003778  | bromodomain containing 8 Source MGI Symbol Acc MGI 1925906                       |
| B04      | SBM0986049 | ENSMUST00000161377.1  | Brdt   | ENSMUSG00000029279 | bromodomain, testis-specific Source MGI Symbol Acc MGI 1891374                   |
| B05      | SBM0812964 | ENSMUST00000113119.7  | Brpf1  | ENSMUSG0000001632  | bromodomain and PHD finger containing, 1 Source MGI Symbol Acc MGI 1926033       |
| B06      | SBM1024101 | ENSMUST00000144022.8  | Brpf3  | ENSMUSG00000063952 | bromodomain and PHD finger containing, 3 Source MGI Symbol Acc MGI 2146836       |
| B07      | SBM0942609 | ENSMUST00000113827.3  | Brwd1  | ENSMUSG00000022914 | bromodomain and WD repeat domain containing 1 Source MGI Symbol Acc MGI 1890651  |
| B08      | SBM0771140 | ENSMUST00000041866.11 | Brwd3  | ENSMUSG00000063663 | bromodomain and WD repeat domain containing 3 Source MGI Symbol Acc MGI 3029414  |
| B09      | SBM1047339 | ENSMUST00000134585.7  | Cbx1   | ENSMUSG00000018666 | chromobox 1 Source MGI Symbol Acc MGI 105369                                     |
| B10      | SBM0900334 | ENSMUST00000139746.1  | Cbx2   | ENSMUSG00000025577 | chromobox 2 Source MGI Symbol Acc MGI 88289                                      |
| B11      | SBM0835928 | ENSMUST00000094623.9  | Cbx3   | ENSMUSG00000029836 | chromobox 3 Source MGI Symbol Acc MGI 108515                                     |
| B12      | SBM0806667 | ENSMUST00000145058.1  | Cbx4   | ENSMUSG00000039989 | chromobox 4 Source MGI Symbol Acc MGI 1195985                                    |
| C01      | SBM0881887 | ENSMUST00000118152.7  | Cbx5   | ENSMUSG0000009575  | chromobox 5 Source MGI Symbol Acc MGI 109372                                     |
| C02      | SBM0826264 | ENSMUST00000109627.7  | Cbx6   | ENSMUSG00000089715 | chromobox 6 Source MGI Symbol Acc MGI 3512628                                    |
| C03      | SBM0801117 | ENSMUST00000177044.1  | Cbx7   | ENSMUSG00000053411 | chromobox 7 Source MGI Symbol Acc MGI 1196439                                    |
| C04      | SBM0686629 | ENSMUST00000143831.1  | Cbx8   | ENSMUSG00000025578 | chromobox 8 Source MGI Symbol Acc MGI 1353589                                    |
| C05      | SBM0843424 | ENSMUST00000163595.2  | Cdyl   | ENSMUSG00000059288 | chromodomain protein, Y chromosome-like Source MGI Symbol Acc MGI 1339956        |
| C06      | SBM0744623 | ENSMUST00000109102.3  | Cdyl2  | ENSMUSG00000031758 | chromodomain protein, Y chromosome-like 2 Source MGI Symbol Acc MGI 1923046      |
| C07      | SBM0776645 | ENSMUST00000174461.1  | Chd1   | ENSMUSG00000023852 | chromodomain helicase DNA binding protein 1 Source MGI Symbol Acc MGI 88393      |
| C08      | SBM0867303 | ENSMUST00000169922.8  | Chd2   | ENSMUSG00000078671 | chromodomain helicase DNA binding protein 2 Source MGI Symbol Acc MGI 2448567    |
| C09      | SBM0675925 | ENSMUST00000092971.12 | Chd3   | ENSMUSG00000018474 | chromodomain helicase DNA binding protein 3 Source MGI Symbol Acc MGI 1344395    |
| C10      | SBM0848966 | ENSMUST00000155261.1  | Chd4   | ENSMUSG00000063870 | chromodomain helicase DNA binding protein 4 Source MGI Symbol Acc MGI 1344380    |
|          |            | ENSMUST00000          |        | ENSMUSG00          | chromodomain helicase DNA binding protein 5 Source MGI Symbol Acc MGI            |

| Position | Assay      | Name                  | Symbol | Ensembl ID        | Description                                                                                |
|----------|------------|-----------------------|--------|-------------------|--------------------------------------------------------------------------------------------|
| C11      | SBM0732924 | 136134.1              | Chd5   | 000005045         | 3036258                                                                                    |
| C12      | SBM0721445 | ENSMUST00000134178.7  | Chd6   | ENSMUSG0000057133 | chromodomain helicase DNA binding protein 6 Source MGI Symbol Acc MGI 1918639              |
| D01      | SBM0929908 | ENSMUST00000051558.9  | Chd7   | ENSMUSG0000041235 | chromodomain helicase DNA binding protein 7 Source MGI Symbol Acc MGI 2444748              |
| D02      | SBM1041660 | ENSMUST00000136528.1  | Chd8   | ENSMUSG0000053754 | chromodomain helicase DNA binding protein 8 Source MGI Symbol Acc MGI 1915022              |
| D03      | SBM0954419 | ENSMUST00000209746.1  | Chd9   | ENSMUSG0000056608 | chromodomain helicase DNA binding protein 9 Source MGI Symbol Acc MGI 1924001              |
| D04      | SBM1023677 | ENSMUST00000201372.2  | Ctbp1  | ENSMUSG0000037373 | C-terminal binding protein 1 Source MGI Symbol Acc MGI 1201685                             |
| D05      | SBM0738292 | ENSMUST00000170459.7  | Ctbp2  | ENSMUSG0000030970 | C-terminal binding protein 2 Source MGI Symbol Acc MGI 1201686                             |
| D06      | SBM0704480 | ENSMUST00000137735.7  | Ctcf   | ENSMUSG0000005698 | CCCTC-binding factor Source MGI Symbol Acc MGI 109447                                      |
| D07      | SBM0904105 | ENSMUST00000208643.1  | Eed    | ENSMUSG0000030619 | embryonic ectoderm development Source MGI Symbol Acc MGI 95286                             |
| D08      | SBM0785041 | ENSMUST00000169889.2  | Ezh2   | ENSMUSG0000029687 | enhancer of zeste 2 polycomb repressive complex 2 subunit Source MGI Symbol Acc MGI 107940 |
| D09      | SBM0982025 | ENSMUST00000214660.1  | Hinfp  | ENSMUSG0000032119 | histone H4 transcription factor Source MGI Symbol Acc MGI 2429620                          |
| D10      | SBM0762147 | ENSMUST00000209646.1  | Ing1   | ENSMUSG0000045969 | inhibitor of growth family, member 1 Source MGI Symbol Acc MGI 1349481                     |
| D11      | SBM0822495 | ENSMUST00000080353.2  | Ing2   | ENSMUSG0000063049 | inhibitor of growth family, member 2 Source MGI Symbol Acc MGI 1916510                     |
| D12      | SBM1063752 | ENSMUST00000115389.7  | Ing3   | ENSMUSG0000029670 | inhibitor of growth family, member 3 Source MGI Symbol Acc MGI 1919027                     |
| E01      | SBM0959440 | ENSMUST00000140131.7  | Ing4   | ENSMUSG0000030330 | inhibitor of growth family, member 4 Source MGI Symbol Acc MGI 107307                      |
| E02      | SBM0678092 | ENSMUST00000190476.1  | Ing5   | ENSMUSG0000026283 | inhibitor of growth family, member 5 Source MGI Symbol Acc MGI 1922816                     |
| E03      | SBM0834312 | ENSMUST00000138707.1  | Ino80  | ENSMUSG0000034154 | INO80 complex subunit Source MGI Symbol Acc MGI 1915392                                    |
| E04      | SBM0969137 | ENSMUST00000097530.4  | Mbd1   | ENSMUSG0000024561 | methyl-CpG binding domain protein 1 Source MGI Symbol Acc MGI 1333811                      |
| E05      | SBM1045460 | ENSMUST00000092295.9  | Mbd3   | ENSMUSG0000035478 | methyl-CpG binding domain protein 3 Source MGI Symbol Acc MGI 1333812                      |
| E06      | SBM0719458 | ENSMUST00000203643.1  | Mbd4   | ENSMUSG0000030322 | methyl-CpG binding domain protein 4 Source MGI Symbol Acc MGI 1333850                      |
| E07      | SBM1079012 | ENSMUST00000123362.7  | Mecp2  | ENSMUSG0000031393 | methyl CpG binding protein 2 Source MGI Symbol Acc MGI 99918                               |
| E08      | SBM0991754 | ENSMUST00000009099.12 | Mta1   | ENSMUSG0000021144 | metastasis associated 1 Source MGI Symbol Acc MGI 2150037                                  |
| E09      | SBM1057770 | ENSMUST00000135300.7  | Mta2   | ENSMUSG0000071646 | metastasis-associated gene family, member 2 Source MGI Symbol Acc MGI 1346340              |
| E10      | SBM1091111 | ENSMUST00000099157.3  | Nab2   | ENSMUSG0000025402 | Ngfi-A binding protein 2 Source MGI Symbol Acc MGI 107563                                  |
| E11      | SBM0672810 | ENSMUST00000224156.1  | Nsd1   | ENSMUSG0000021488 | nuclear receptor-binding SET-domain protein 1 Source MGI Symbol Acc MGI 1276545            |
| E12      | SBM0759222 | ENSMUST00000176027.7  | Pcgf1  | ENSMUSG0000069678 | polycomb group ring finger 1 Source MGI Symbol Acc MGI 1917087                             |
| F01      | SBM0879579 | ENSMUST00000103149.8  | Pcgf2  | ENSMUSG0000018537 | polycomb group ring finger 2 Source MGI Symbol Acc MGI 99161                               |
| F02      | SBM0965263 | ENSMUST00000112597.7  | Pcgf3  | ENSMUSG0000033623 | polycomb group ring finger 3 Source MGI Symbol Acc MGI 1916837                             |
| F03      | SBM1014896 | ENSMUST00000062389.5  | Pcgf5  | ENSMUSG0000024805 | polycomb group ring finger 5 Source MGI Symbol Acc MGI 1923505                             |
| F04      | SBM0727825 | ENSMUST00000026032.6  | Pcgf6  | ENSMUSG0000025050 | polycomb group ring finger 6 Source MGI Symbol Acc MGI 1918291                             |
| F05      | SBM0946631 | ENSMUST00000159657.7  | Phc1   | ENSMUSG0000040669 | polyhomeotic 1 Source MGI Symbol Acc MGI 103248                                            |
| F06      | SBM1082778 | ENSMUST00000147572.7  | Phc2   | ENSMUSG0000028796 | polyhomeotic 2 Source MGI Symbol Acc MGI 1860454                                           |
| F07      | SBM0910327 | ENSMUST00000237189.1  | Phf1   | ENSMUSG0000024193 | PHD finger protein 1 Source MGI Symbol Acc MGI 98647                                       |
| F08      | SBM0822062 | ENSMUST00000055688.9  | Phf13  | ENSMUSG0000047777 | PHD finger protein 13 Source MGI Symbol Acc MGI 2446217                                    |
| F09      | SBM0808226 | ENSMUST00000035540.8  | Phf2   | ENSMUSG0000038025 | PHD finger protein 2 Source MGI Symbol Acc MGI 1338034                                     |
| F10      | SBM0738419 | ENSMUST00000016768.11 | Phf21b | ENSMUSG0000016624 | PHD finger protein 21B Source MGI Symbol Acc MGI 2443812                                   |

| Position | Assay      | Name                  | Symbol   | Ensembl ID        | Description                                                                                                                         |
|----------|------------|-----------------------|----------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| F11      | SBM1002149 | ENSMUST00000190190.1  | Phf3     | ENSMUSG0000048874 | PHD finger protein 3 Source MGI Symbol Acc MGI 2446126                                                                              |
| F12      | SBM0779993 | ENSMUST0000023117.9   | Phf5a    | ENSMUSG0000061360 | PHD finger protein 5A Source MGI Symbol Acc MGI 2156864                                                                             |
| G01      | SBM0845214 | ENSMUST0000078944.12  | Phf6     | ENSMUSG0000025626 | PHD finger protein 6 Source MGI Symbol Acc MGI 1918248                                                                              |
| G02      | SBM1048209 | ENSMUST00000226565.1  | Phf7     | ENSMUSG0000021902 | PHD finger protein 7 Source MGI Symbol Acc MGI 1919088                                                                              |
| G03      | SBM0931079 | ENSMUST00000174054.1  | Ring1    | ENSMUSG0000024325 | ring finger protein 1 Source MGI Symbol Acc MGI 1101770                                                                             |
| G04      | SBM1093150 | ENSMUST0000076110.10  | Rnf2     | ENSMUSG0000026484 | ring finger protein 2 Source MGI Symbol Acc MGI 1101759                                                                             |
| G05      | SBM0913920 | ENSMUST0000099537.8   | Smarca2  | ENSMUSG0000024921 | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 Source MGI Symbol Acc MGI 99603   |
| G06      | SBM0940307 | ENSMUST00000174008.7  | Smarca4  | ENSMUSG0000032187 | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 Source MGI Symbol Acc MGI 88192   |
| G07      | SBM0943295 | ENSMUST00000142470.1  | Smarca5  | ENSMUSG0000031715 | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 Source MGI Symbol Acc MGI 1935129 |
| G08      | SBM0818897 | ENSMUST00000152081.1  | Spen     | ENSMUSG0000040761 | spen family transcription repressor Source MGI Symbol Acc MGI 1891706                                                               |
| G09      | SBM1001688 | ENSMUST00000163272.1  | Suz12    | ENSMUSG0000017548 | SUZ12 polycomb repressive complex 2 subunit Source MGI Symbol Acc MGI 1261758                                                       |
| G10      | SBM0781762 | ENSMUST00000139287.3  | Trim27   | ENSMUSG0000021326 | tripartite motif-containing 27 Source MGI Symbol Acc MGI 97904                                                                      |
| G11      | SBM0762375 | ENSMUST00000148752.7  | Wdr11    | ENSMUSG0000042055 | WD repeat domain 11 Source MGI Symbol Acc MGI 1920230                                                                               |
| G12      | SBM0831409 | ENSMUST0000099084.8   | Zmynd8   | ENSMUSG0000039671 | zinc finger, MYND-type containing 8 Source MGI Symbol Acc MGI 1918025                                                               |
| 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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