

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

Mouse Cellular Stress Responses

Cat. no. 249955 UPMM-019ZR

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	Acadsb	Bag1	Calr	Canx	Cat	Cct2	Cct3	Cct4	Cct5	Cct7	Cct8	Ces1g
B	Clu	Cryaa	Cryab	Cyp11a1	Cyp11b2	Cyp17a1	Cyp1a1	Cyp1a2	Cyp1b1	Cyp2c29	Cyp2c38	Cyp2d22
C	Cyp2e1	Cyp2f2	Cyp4a10	Cyp4b1	Cyp7a1	Cyp7b1	Dnaja1	Dnaja2	Dnaja3	Dnaja4	Dnajb1	Dnajb11
D	Dnajb12	Dnajb2	Dnajb4	Dnajb5	Dnajb6	Dnajb9	Dnajc1	Dnajc4	Dnajc5	Dnajc6	Dnajc7	Dnajc8
E	Dnajc9	Ephx2	Fmo1	Fmo4	Fmo5	Gpx1	Gpx2	Gsr	Gsta1	Gstk1	Gstm1	Gsto1
F	Hmox1	Hmox2	Hopx	Hspa12a	Hspa1a	Hspa1l	Hspa2	Hspa4	Hspa5	Hspa8	Hspa9	Hspb1
G	Hspb2	Hspb3	Hspd1	Hspe1	Ppid	Serpinh1	Sod1	Sod2	Sod3	Sl13	Tcp1	Xdh
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	QIC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM080098 3	ENSMUST00000 151995.1	Acad5b	ENSMUSG00 000030861	acyl-Coenzyme A dehydrogenase, short/branched chain Source MGI Symbol Acc MGI 1914135
A02	UPFM068185 5	ENSMUST00000 108089.7	Bag1	ENSMUSG00 000028416	BCL2-associated athanogene 1 Source MGI Symbol Acc MGI 108047
A03	UPFM080836 1	ENSMUST00000 003912.6	Calr	ENSMUSG00 000003814	calreticulin Source MGI Symbol Acc MGI 88252
A04	UPFM096906 7	ENSMUST00000 146979.1	Canx	ENSMUSG00 000020368	calnexin Source MGI Symbol Acc MGI 88261
A05	UPFM099283 9	ENSMUST00000 028610.9	Cat	ENSMUSG00 000027187	catalase Source MGI Symbol Acc MGI 88271
A06	UPFM093667 0	ENSMUST00000 218059.1	Cct2	ENSMUSG00 000034024	chaperonin containing Tcp1, subunit 2 (beta) Source MGI Symbol Acc MGI 107186
A07	UPFM080345 2	ENSMUST00000 163735.1	Cct3	ENSMUSG00 000001416	chaperonin containing Tcp1, subunit 3 (gamma) Source MGI Symbol Acc MGI 104708
A08	UPFM068436 6	ENSMUST00000 174659.1	Cct4	ENSMUSG00 000007739	chaperonin containing Tcp1, subunit 4 (delta) Source MGI Symbol Acc MGI 104689
A09	UPFM062753 1	ENSMUST00000 022842.15	Cct5	ENSMUSG00 000022234	chaperonin containing Tcp1, subunit 5 (epsilon) Source MGI Symbol Acc MGI 107185
A10	UPFM092065 0	ENSMUST00000 205096.1	Cct7	ENSMUSG00 000030007	chaperonin containing Tcp1, subunit 7 (eta) Source MGI Symbol Acc MGI 107184
A11	UPFM086732 4	ENSMUST00000 177301.1	Cct8	ENSMUSG00 000025613	chaperonin containing Tcp1, subunit 8 (theta) Source MGI Symbol Acc MGI 107183
A12	UPFM092406 8	ENSMUST00000 044602.7	Ces1g	ENSMUSG00 000057074	carboxylesterase 1G Source MGI Symbol Acc MGI 88378
B01	UPFM093808 7	ENSMUST00000 153460.7	Clu	ENSMUSG00 000022037	clusterin Source MGI Symbol Acc MGI 88423
B02	UPFM077280 0	ENSMUST00000 228305.1	Cryaa	ENSMUSG00 000024041	crystallin, alpha A Source MGI Symbol Acc MGI 88515
B03	UPFM097354 9	ENSMUST00000 214962.1	Cryab	ENSMUSG00 000032060	crystallin, alpha B Source MGI Symbol Acc MGI 88516
B04	UPFM100116 7	ENSMUST00000 188116.6	Cyp11a1	ENSMUSG00 000032323	cytochrome P450, family 11, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88582
B05	UPFM094748 5	ENSMUST00000 167634.1	Cyp11b2	ENSMUSG00 000022589	cytochrome P450, family 11, subfamily b, polypeptide 2 Source MGI Symbol Acc MGI 88584
B06	UPFM063420 5	ENSMUST00000 026012.7	Cyp17a1	ENSMUSG00 000003555	cytochrome P450, family 17, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88586
B07	UPFM076795 1	ENSMUST00000 034865.5	Cyp1a1	ENSMUSG00 000032315	cytochrome P450, family 1, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88588
B08	UPFM085894 9	ENSMUST00000 034860.4	Cyp1a2	ENSMUSG00 000032310	cytochrome P450, family 1, subfamily a, polypeptide 2 Source MGI Symbol Acc MGI 88589
B09	UPFM112630 0	ENSMUST00000 234361.1	Cyp1b1	ENSMUSG00 000024087	cytochrome P450, family 1, subfamily b, polypeptide 1 Source MGI Symbol Acc MGI 88590
B10	UPFM090001 8	ENSMUST00000 003137.14	Cyp2c29	ENSMUSG00 000003053	cytochrome P450, family 2, subfamily c, polypeptide 29 Source MGI Symbol Acc MGI 103238
B11	UPFM073599 6	ENSMUST00000 035488.2	Cyp2c38	ENSMUSG00 000032808	cytochrome P450, family 2, subfamily c, polypeptide 38 Source MGI Symbol Acc MGI 1306819
B12	UPFM096860 7	ENSMUST00000 230663.1	Cyp2d22	ENSMUSG00 000061740	cytochrome P450, family 2, subfamily d, polypeptide 22 Source MGI Symbol Acc MGI 1929474
C01	UPFM081566 5	ENSMUST00000 210403.1	Cyp2e1	ENSMUSG00 000025479	cytochrome P450, family 2, subfamily e, polypeptide 1 Source MGI Symbol Acc MGI 88607
C02	UPFM075898 9	ENSMUST00000 206552.1	Cyp2f2	ENSMUSG00 000052974	cytochrome P450, family 2, subfamily f, polypeptide 2 Source MGI Symbol Acc MGI 88608
C03	UPFM073340 8	ENSMUST00000 094886.3	Cyp4a10	ENSMUSG00 000066072	cytochrome P450, family 4, subfamily a, polypeptide 10 Source MGI Symbol Acc MGI 88611
C04	UPFM093669 0	ENSMUST00000 135569.7	Cyp4b1	ENSMUSG00 000028713	cytochrome P450, family 4, subfamily b, polypeptide 1 Source MGI Symbol Acc MGI 103225
C05	UPFM078519 1	ENSMUST00000 147346.1	Cyp7a1	ENSMUSG00 000028240	cytochrome P450, family 7, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 106091
C06	UPFM070565 0	ENSMUST00000 035625.6	Cyp7b1	ENSMUSG00 000039519	cytochrome P450, family 7, subfamily b, polypeptide 1 Source MGI Symbol Acc MGI 104978
C07	UPFM074054 7	ENSMUST00000 148976.1	Dnaj1	ENSMUSG00 000028410	DnaJ heat shock protein family (Hsp40) member A1 Source MGI Symbol Acc MGI 1270129
C08	UPFM087065 2	ENSMUST00000 211630.1	Dnaj2	ENSMUSG00 000031701	DnaJ heat shock protein family (Hsp40) member A2 Source MGI Symbol Acc MGI 1931882
C09	UPFM100361 9	ENSMUST00000 138495.1	Dnaj3	ENSMUSG00 000004069	DnaJ heat shock protein family (Hsp40) member A3 Source MGI Symbol Acc MGI 1933786
C10	UPFM084586 4	ENSMUST00000 120452.7	Dnaj4	ENSMUSG00 000032285	DnaJ heat shock protein family (Hsp40) member A4 Source MGI Symbol Acc MGI 1927638
	UPFM089539	ENSMUST00000		ENSMUSG00	DnaJ heat shock protein family (Hsp40) member B1 Source MGI Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	1	005620.9	Dnajb1	000005483	MGI 1931874
C12	UPFM0940950	ENSMUST00000133013.1	Dnajb11	ENSMUSG0000004460	DnaJ heat shock protein family (Hsp40) member B11 Source MGI Symbol Acc MGI 1915088
D01	UPFM0984807	ENSMUST00000146590.7	Dnajb12	ENSMUSG00000020109	DnaJ heat shock protein family (Hsp40) member B12 Source MGI Symbol Acc MGI 1931881
D02	UPFM0742585	ENSMUST00000188290.6	Dnajb2	ENSMUSG00000026203	DnaJ heat shock protein family (Hsp40) member B2 Source MGI Symbol Acc MGI 1928739
D03	UPFM0911723	ENSMUST00000029669.3	Dnajb4	ENSMUSG00000028035	DnaJ heat shock protein family (Hsp40) member B4 Source MGI Symbol Acc MGI 1914285
D04	UPFM0971447	ENSMUST00000037872.9	Dnajb5	ENSMUSG00000036052	DnaJ heat shock protein family (Hsp40) member B5 Source MGI Symbol Acc MGI 1930018
D05	UPFM0720067	ENSMUST000000149553.1	Dnajb6	ENSMUSG00000029131	DnaJ heat shock protein family (Hsp40) member B6 Source MGI Symbol Acc MGI 1344381
D06	UPFM0695570	ENSMUST00000015049.4	Dnajb9	ENSMUSG00000014905	DnaJ heat shock protein family (Hsp40) member B9 Source MGI Symbol Acc MGI 1351618
D07	UPFM0878247	ENSMUST000000163130.7	Dnajc1	ENSMUSG00000026740	DnaJ heat shock protein family (Hsp40) member C1 Source MGI Symbol Acc MGI 103268
D08	UPFM0987435	ENSMUST000000235481.1	Dnajc4	ENSMUSG00000024963	DnaJ heat shock protein family (Hsp40) member C4 Source MGI Symbol Acc MGI 1927346
D09	UPFM0806905	ENSMUST000000108796.1	Dnajc5	ENSMUSG00000000826	DnaJ heat shock protein family (Hsp40) member C5 Source MGI Symbol Acc MGI 892995
D10	UPFM0813515	ENSMUST000000094953.10	Dnajc6	ENSMUSG00000028528	DnaJ heat shock protein family (Hsp40) member C6 Source MGI Symbol Acc MGI 1919935
D11	UPFM0708133	ENSMUST000000146840.1	Dnajc7	ENSMUSG00000014195	DnaJ heat shock protein family (Hsp40) member C7 Source MGI Symbol Acc MGI 1928373
D12	UPFM0974073	ENSMUST000000105939.9	Dnajc8	ENSMUSG00000054405	DnaJ heat shock protein family (Hsp40) member C8 Source MGI Symbol Acc MGI 1915848
E01	UPFM0794822	ENSMUST000000223889.1	Dnajc9	ENSMUSG00000021811	DnaJ heat shock protein family (Hsp40) member C9 Source MGI Symbol Acc MGI 1915326
E02	UPFM0619291	ENSMUST000000225309.1	Ephx2	ENSMUSG00000022040	epoxide hydrolase 2, cytoplasmic Source MGI Symbol Acc MGI 99500
E03	UPFM0685803	ENSMUST000000134098.7	Fmo1	ENSMUSG00000040181	flavin containing monooxygenase 1 Source MGI Symbol Acc MGI 1310002
E04	UPFM0920978	ENSMUST000000111525.7	Fmo4	ENSMUSG00000026692	flavin containing monooxygenase 4 Source MGI Symbol Acc MGI 2429497
E05	UPFM0623279	ENSMUST000000140283.1	Fmo5	ENSMUSG00000028088	flavin containing monooxygenase 5 Source MGI Symbol Acc MGI 1310004
E06	UPFM0910578	ENSMUST000000193987.1	Gpx1	ENSMUSG00000063856	glutathione peroxidase 1 Source MGI Symbol Acc MGI 104887
E07	UPFM0999946	ENSMUST000000221421.1	Gpx2	ENSMUSG00000042808	glutathione peroxidase 2 Source MGI Symbol Acc MGI 106609
E08	UPFM0723522	ENSMUST000000033992.8	Gsr	ENSMUSG00000031584	glutathione reductase Source MGI Symbol Acc MGI 95804
E09	UPFM0968308	ENSMUST000000127192.1	Gsta1	ENSMUSG00000074183	glutathione S-transferase, alpha 1 (Ya) Source MGI Symbol Acc MGI 1095417
E10	UPFM0872345	ENSMUST000000204792.1	Gstk1	ENSMUSG00000029864	glutathione S-transferase kappa 1 Source MGI Symbol Acc MGI 1923513
E11	UPFM0718272	ENSMUST000000126593.2	Gstm1	ENSMUSG00000058135	glutathione S-transferase, mu 1 Source MGI Symbol Acc MGI 95860
E12	UPFM0670531	ENSMUST000000026050.7	Gsto1	ENSMUSG00000025068	glutathione S-transferase omega 1 Source MGI Symbol Acc MGI 1342273
F01	UPFM0708987	ENSMUST000000005548.7	Hmox1	ENSMUSG00000005413	heme oxygenase 1 Source MGI Symbol Acc MGI 96163
F02	UPFM0753860	ENSMUST000000140367.7	Hmox2	ENSMUSG00000004070	heme oxygenase 2 Source MGI Symbol Acc MGI 109373
F03	UPFM0781223	ENSMUST000000113453.8	Hopx	ENSMUSG00000059325	HOP homeobox Source MGI Symbol Acc MGI 1916782
F04	UPFM0994241	ENSMUST000000235263.1	Hspa12a	ENSMUSG00000025092	heat shock protein 12A Source MGI Symbol Acc MGI 1920692
F05	UPFM0921553	ENSMUST000000087328.3	Hspa1a	ENSMUSG00000091971	heat shock protein 1A Source MGI Symbol Acc MGI 96244
F06	UPFM0704696	ENSMUST000000007248.4	Hspa1l	ENSMUSG00000007033	heat shock protein 1-like Source MGI Symbol Acc MGI 96231
F07	UPFM1008654	ENSMUST000000080449.6	Hspa2	ENSMUSG00000059970	heat shock protein 2 Source MGI Symbol Acc MGI 96243
F08	UPFM0628194	ENSMUST000000020630.7	Hspa4	ENSMUSG00000020361	heat shock protein 4 Source MGI Symbol Acc MGI 1342292
F09	UPFM1004603	ENSMUST000000100171.2	Hspa5	ENSMUSG00000026864	heat shock protein 5 Source MGI Symbol Acc MGI 95835
F10	UPFM0743993	ENSMUST000000215526.1	Hspa8	ENSMUSG00000015656	heat shock protein 8 Source MGI Symbol Acc MGI 105384

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM079048 3	ENSMUST00000 025217.10	Hspa9	ENSMUSG00 000024359	heat shock protein 9 Source MGI Symbol Acc MGI 96245
F12	UPFM101003 5	ENSMUST00000 005077.6	Hspb1	ENSMUSG00 000004951	heat shock protein 1 Source MGI Symbol Acc MGI 96240
G01	UPFM087233 6	ENSMUST00000 042790.4	Hspb2	ENSMUSG00 000038086	heat shock protein 2 Source MGI Symbol Acc MGI 1916503
G02	UPFM089730 2	ENSMUST00000 054650.4	Hspb3	ENSMUSG00 000051456	heat shock protein 3 Source MGI Symbol Acc MGI 1928479
G03	UPFM078732 4	ENSMUST00000 144077.2	Hspd1	ENSMUSG00 000025980	heat shock protein 1 (chaperonin) Source MGI Symbol Acc MGI 96242
G04	UPFM085634 9	ENSMUST00000 075242.6	Hspe1	ENSMUSG00 000073676	heat shock protein 1 (chaperonin 10) Source MGI Symbol Acc MGI 104680
G05	UPFM072560 3	ENSMUST00000 159505.2	Ppid	ENSMUSG00 000027804	peptidylprolyl isomerase D (cyclophilin D) Source MGI Symbol Acc MGI 1914988
G06	UPFM100097 1	ENSMUST00000 208119.1	Serpinh1	ENSMUSG00 000070436	serine (or cysteine) peptidase inhibitor, clade H, member 1 Source MGI Symbol Acc MGI 88283
G07	UPFM092762 0	ENSMUST00000 023707.10	Sod1	ENSMUSG00 000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
G08	UPFM095033 7	ENSMUST00000 233897.1	Sod2	ENSMUSG00 000006818	superoxide dismutase 2, mitochondrial Source MGI Symbol Acc MGI 98352
G09	UPFM068829 0	ENSMUST00000 101208.5	Sod3	ENSMUSG00 000072941	superoxide dismutase 3, extracellular Source MGI Symbol Acc MGI 103181
G10	UPFM072897 8	ENSMUST00000 023039.14	St13	ENSMUSG00 000022403	suppression of tumorigenicity 13 Source MGI Symbol Acc MGI 1917606
G11	UPFM081912 1	ENSMUST00000 138709.1	Tcp1	ENSMUSG00 000068039	t-complex protein 1 Source MGI Symbol Acc MGI 98535
G12	UPFM084844 7	ENSMUST00000 233449.1	Xdh	ENSMUSG00 000024066	xanthine dehydrogenase Source MGI Symbol Acc MGI 98973
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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.