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

Mouse Heat Shock Proteins & Chaperones

Cat. no. 249955 UPMM-076ZA

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	Coq8a	Atf6	Bag1	Bag2	Bag3	Bag4	Bag5	Ccs	Cct2	Cct3	Cct4	Cct5
B	Cct6a	Cct6b	Cct7	Cryaa	Cryab	Dnaja1	Dnaja2	Dnaja3	Dnaja4	Dnajb1	Dnajb11	Dnajb12
C	Dnajb13	Dnajb14	Dnajb2	Dnajb5	Dnajb6	Dnajb7	Dnajb8	Dnajb9	Dnajc1	Dnajc10	Dnajc11	Dnajc12
D	Dnajc13	Dnajc14	Dnajc15	Dnajc16	Dnajc17	Dnajc18	Dnajc19	Dnajc21	Dnajc3	Dnajc4	Dnajc5	Dnajc5b
E	Dnajc5g	Dnajc6	Dnajc7	Dnajc8	Dnajc9	Hsf1	Hsf2	Hsf4	Hsp90aa1	Hspb9	Hsp90b1	Hspa14
F	Hspa1a	Hspa1b	Hspa1l	Hspa2	Hspa4	Hspa4l	Hspa5	Hspa8	Hspa9	Hspb1	Hspb2	Hspb3
G	Hspb6	Hspb7	Hspb8	Hspd1	Hspe1	Hsph1	Pfdn1	Pfdn2	Serpinh1	Sil1	Tcp1	Tor1a
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	UPFM0626916	ENSMUST00000161814.7	Coq8a	ENSMUSG00000026489	coenzyme Q8A Source MGI Symbol Acc MGI 1914676
A02	UPFM0839396	ENSMUST00000027974.6	Atf6	ENSMUSG00000026663	activating transcription factor 6 Source MGI Symbol Acc MGI 1926157
A03	UPFM0681855	ENSMUST00000108089.7	Bag1	ENSMUSG00000028416	BCL2-associated athanogene 1 Source MGI Symbol Acc MGI 108047
A04	UPFM0642221	ENSMUST00000044691.8	Bag2	ENSMUSG00000042215	BCL2-associated athanogene 2 Source MGI Symbol Acc MGI 1891254
A05	UPFM0725852	ENSMUST00000033136.8	Bag3	ENSMUSG00000030847	BCL2-associated athanogene 3 Source MGI Symbol Acc MGI 1352493
A06	UPFM0729139	ENSMUST00000038498.9	Bag4	ENSMUSG00000037316	BCL2-associated athanogene 4 Source MGI Symbol Acc MGI 1914634
A07	UPFM0924847	ENSMUST00000054636.6	Bag5	ENSMUSG00000049792	BCL2-associated athanogene 5 Source MGI Symbol Acc MGI 1917619
A08	UPFM1010233	ENSMUST00000238136.1	Ccs	ENSMUSG00000034108	copper chaperone for superoxide dismutase Source MGI Symbol Acc MGI 1333783
A09	UPFM0936670	ENSMUST00000218059.1	Cct2	ENSMUSG00000034024	chaperonin containing Tcp1, subunit 2 (beta) Source MGI Symbol Acc MGI 107186
A10	UPFM0803452	ENSMUST00000163735.1	Cct3	ENSMUSG00000001416	chaperonin containing Tcp1, subunit 3 (gamma) Source MGI Symbol Acc MGI 104708
A11	UPFM0684366	ENSMUST00000174659.1	Cct4	ENSMUSG00000007739	chaperonin containing Tcp1, subunit 4 (delta) Source MGI Symbol Acc MGI 104689
A12	UPFM0627531	ENSMUST00000022842.15	Cct5	ENSMUSG00000022234	chaperonin containing Tcp1, subunit 5 (epsilon) Source MGI Symbol Acc MGI 107185
B01	UPFM0705212	ENSMUST00000031402.11	Cct6a	ENSMUSG00000029447	chaperonin containing Tcp1, subunit 6a (zeta) Source MGI Symbol Acc MGI 107943
B02	UPFM0972690	ENSMUST00000021040.9	Cct6b	ENSMUSG00000020698	chaperonin containing Tcp1, subunit 6b (zeta) Source MGI Symbol Acc MGI 1329013
B03	UPFM0920650	ENSMUST00000205096.1	Cct7	ENSMUSG00000030007	chaperonin containing Tcp1, subunit 7 (eta) Source MGI Symbol Acc MGI 107184
B04	UPFM0772800	ENSMUST00000228305.1	Cryaa	ENSMUSG00000024041	crystallin, alpha A Source MGI Symbol Acc MGI 88515
B05	UPFM0973549	ENSMUST00000214962.1	Cryab	ENSMUSG00000032060	crystallin, alpha B Source MGI Symbol Acc MGI 88516
B06	UPFM0740547	ENSMUST00000148976.1	Dnaja1	ENSMUSG00000028410	DnaJ heat shock protein family (Hsp40) member A1 Source MGI Symbol Acc MGI 1270129
B07	UPFM0870652	ENSMUST00000211630.1	Dnaja2	ENSMUSG00000031701	DnaJ heat shock protein family (Hsp40) member A2 Source MGI Symbol Acc MGI 1931882
B08	UPFM1003619	ENSMUST00000138495.1	Dnaja3	ENSMUSG00000004069	DnaJ heat shock protein family (Hsp40) member A3 Source MGI Symbol Acc MGI 1933786
B09	UPFM0845864	ENSMUST00000120452.7	Dnaja4	ENSMUSG00000032285	DnaJ heat shock protein family (Hsp40) member A4 Source MGI Symbol Acc MGI 1927638
B10	UPFM0895391	ENSMUST00000005620.9	Dnajb1	ENSMUSG00000005483	DnaJ heat shock protein family (Hsp40) member B1 Source MGI Symbol Acc MGI 1931874
B11	UPFM0940950	ENSMUST00000133013.1	Dnajb11	ENSMUSG00000004460	DnaJ heat shock protein family (Hsp40) member B11 Source MGI Symbol Acc MGI 1915088
B12	UPFM0984807	ENSMUST00000146590.7	Dnajb12	ENSMUSG00000020109	DnaJ heat shock protein family (Hsp40) member B12 Source MGI Symbol Acc MGI 1931881
C01	UPFM0931606	ENSMUST00000154516.2	Dnajb13	ENSMUSG00000030708	DnaJ heat shock protein family (Hsp40) member B13 Source MGI Symbol Acc MGI 1916637
C02	UPFM0716478	ENSMUST00000197711.1	Dnajb14	ENSMUSG00000074212	DnaJ heat shock protein family (Hsp40) member B14 Source MGI Symbol Acc MGI 1917854
C03	UPFM0742585	ENSMUST00000188290.6	Dnajb2	ENSMUSG00000026203	DnaJ heat shock protein family (Hsp40) member B2 Source MGI Symbol Acc MGI 1928739
C04	UPFM0971447	ENSMUST00000037872.9	Dnajb5	ENSMUSG00000036052	DnaJ heat shock protein family (Hsp40) member B5 Source MGI Symbol Acc MGI 1930018
C05	UPFM0720067	ENSMUST00000149553.1	Dnajb6	ENSMUSG00000029131	DnaJ heat shock protein family (Hsp40) member B6 Source MGI Symbol Acc MGI 1344381
C06	UPFM0662333	ENSMUST00000057236.4	Dnajb7	ENSMUSG00000047108	DnaJ heat shock protein family (Hsp40) member B7 Source MGI Symbol Acc MGI 1914012
C07	UPFM0997177	ENSMUST00000061866.5	Dnajb8	ENSMUSG00000048206	DnaJ heat shock protein family (Hsp40) member B8 Source MGI Symbol Acc MGI 1922801
C08	UPFM0695570	ENSMUST00000015049.4	Dnajb9	ENSMUSG00000014905	DnaJ heat shock protein family (Hsp40) member B9 Source MGI Symbol Acc MGI 1351618
C09	UPFM0878247	ENSMUST00000163130.7	Dnajc1	ENSMUSG00000026740	DnaJ heat shock protein family (Hsp40) member C1 Source MGI Symbol Acc MGI 103268
C10	UPFM0846710	ENSMUST00000153093.1	Dnajc10	ENSMUSG00000027006	DnaJ heat shock protein family (Hsp40) member C10 Source MGI Symbol Acc MGI 1914111
	UPFM062019	ENSMUST00000		ENSMUSG00	DnaJ heat shock protein family (Hsp40) member C11 Source MGI Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	9	133959.7	Dnajc11	000039768	MGI 2443386
C12	UPFM0729508	ENSMUST00000043317.6	Dnajc12	ENSMUSG00000036764	DnaJ heat shock protein family (Hsp40) member C12 Source MGI Symbol Acc MGI 1353428
D01	UPFM0684303	ENSMUST00000188592.1	Dnajc13	ENSMUSG00000032560	DnaJ heat shock protein family (Hsp40) member C13 Source MGI Symbol Acc MGI 2676368
D02	UPFM0755210	ENSMUST00000219508.1	Dnajc14	ENSMUSG00000025354	DnaJ heat shock protein family (Hsp40) member C14 Source MGI Symbol Acc MGI 1921580
D03	UPFM0844774	ENSMUST00000022590.4	Dnajc15	ENSMUSG00000022013	DnaJ heat shock protein family (Hsp40) member C15 Source MGI Symbol Acc MGI 1913398
D04	UPFM0632731	ENSMUST00000038014.10	Dnajc16	ENSMUSG00000040697	DnaJ heat shock protein family (Hsp40) member C16 Source MGI Symbol Acc MGI 2442146
D05	UPFM0959072	ENSMUST00000038439.3	Dnajc17	ENSMUSG00000034278	DnaJ heat shock protein family (Hsp40) member C17 Source MGI Symbol Acc MGI 1916658
D06	UPFM0788784	ENSMUST00000237995.1	Dnajc18	ENSMUSG00000024350	DnaJ heat shock protein family (Hsp40) member C18 Source MGI Symbol Acc MGI 1923844
D07	UPFM0803502	ENSMUST00000197111.1	Dnajc19	ENSMUSG00000027679	DnaJ heat shock protein family (Hsp40) member C19 Source MGI Symbol Acc MGI 1914963
D08	UPFM0716163	ENSMUST00000136591.7	Dnajc21	ENSMUSG00000044224	DnaJ heat shock protein family (Hsp40) member C21 Source MGI Symbol Acc MGI 1925371
D09	UPFM0959999	ENSMUST00000022734.8	Dnajc3	ENSMUSG00000022136	DnaJ heat shock protein family (Hsp40) member C3 Source MGI Symbol Acc MGI 107373
D10	UPFM0987435	ENSMUST00000235481.1	Dnajc4	ENSMUSG00000024963	DnaJ heat shock protein family (Hsp40) member C4 Source MGI Symbol Acc MGI 1927346
D11	UPFM0806905	ENSMUST00000108796.1	Dnajc5	ENSMUSG00000000826	DnaJ heat shock protein family (Hsp40) member C5 Source MGI Symbol Acc MGI 892995
D12	UPFM0984130	ENSMUST00000118735.7	Dnajc5b	ENSMUSG00000027606	DnaJ heat shock protein family (Hsp40) member C5 beta Source MGI Symbol Acc MGI 1913576
E01	UPFM0973605	ENSMUST00000201740.3	Dnajc5g	ENSMUSG00000053856	DnaJ heat shock protein family (Hsp40) member C5 gamma Source MGI Symbol Acc MGI 3045263
E02	UPFM0813515	ENSMUST00000094953.10	Dnajc6	ENSMUSG00000028528	DnaJ heat shock protein family (Hsp40) member C6 Source MGI Symbol Acc MGI 1919935
E03	UPFM0708133	ENSMUST00000146840.1	Dnajc7	ENSMUSG00000014195	DnaJ heat shock protein family (Hsp40) member C7 Source MGI Symbol Acc MGI 1928373
E04	UPFM0974073	ENSMUST00000105939.9	Dnajc8	ENSMUSG00000054405	DnaJ heat shock protein family (Hsp40) member C8 Source MGI Symbol Acc MGI 1915848
E05	UPFM0794822	ENSMUST00000223889.1	Dnajc9	ENSMUSG00000021811	DnaJ heat shock protein family (Hsp40) member C9 Source MGI Symbol Acc MGI 1915326
E06	UPFM0706673	ENSMUST00000226872.1	Hsf1	ENSMUSG00000022556	heat shock factor 1 Source MGI Symbol Acc MGI 96238
E07	UPFM0750180	ENSMUST00000220353.1	Hsf2	ENSMUSG00000019878	heat shock factor 2 Source MGI Symbol Acc MGI 96239
E08	UPFM0629197	ENSMUST00000036127.8	Hsf4	ENSMUSG00000033249	heat shock transcription factor 4 Source MGI Symbol Acc MGI 1347058
E09	UPFM0997895	ENSMUST00000155242.7	Hsp90aa1	ENSMUSG00000021270	heat shock protein 90, alpha (cytosolic), class A member 1 Source MGI Symbol Acc MGI 96250
E10	UPFM0950530	ENSMUST00000169833.1	Hspb9	ENSMUSG00000017832	heat shock protein, alpha-crystallin-related, B9 Source MGI Symbol Acc MGI 1922732
E11	UPFM0771680	ENSMUST00000129413.1	Hsp90b1	ENSMUSG00000020048	heat shock protein 90, beta (Grp94), member 1 Source MGI Symbol Acc MGI 98817
E12	UPFM0754926	ENSMUST00000135157.1	Hspa14	ENSMUSG00000109865	heat shock protein 14 Source MGI Symbol Acc MGI 1354164
F01	UPFM0921553	ENSMUST00000087328.3	Hspa1a	ENSMUSG00000091971	heat shock protein 1A Source MGI Symbol Acc MGI 96244
F02	UPFM0692776	ENSMUST00000172753.1	Hspa1b	ENSMUSG00000090877	heat shock protein 1B Source MGI Symbol Acc MGI 99517
F03	UPFM0704696	ENSMUST00000007248.4	Hspa1l	ENSMUSG00000007033	heat shock protein 1-like Source MGI Symbol Acc MGI 96231
F04	UPFM1008654	ENSMUST00000080449.6	Hspa2	ENSMUSG00000059970	heat shock protein 2 Source MGI Symbol Acc MGI 96243
F05	UPFM0628194	ENSMUST00000020630.7	Hspa4	ENSMUSG00000020361	heat shock protein 4 Source MGI Symbol Acc MGI 1342292
F06	UPFM0851837	ENSMUST00000203353.2	Hspa4l	ENSMUSG00000025757	heat shock protein 4 like Source MGI Symbol Acc MGI 107422
F07	UPFM1004603	ENSMUST00000100171.2	Hspa5	ENSMUSG00000026864	heat shock protein 5 Source MGI Symbol Acc MGI 95835
F08	UPFM0743993	ENSMUST00000215526.1	Hspa8	ENSMUSG00000015656	heat shock protein 8 Source MGI Symbol Acc MGI 105384
F09	UPFM0790483	ENSMUST00000025217.10	Hspa9	ENSMUSG00000024359	heat shock protein 9 Source MGI Symbol Acc MGI 96245
F10	UPFM1010035	ENSMUST00000005077.6	Hspb1	ENSMUSG00000004951	heat shock protein 1 Source MGI Symbol Acc MGI 96240

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0872336	ENSMUST00000042790.4	Hspb2	ENSMUSG00000038086	heat shock protein 2 Source MGI Symbol Acc MGI 1916503
F12	UPFM0897302	ENSMUST00000054650.4	Hspb3	ENSMUSG00000051456	heat shock protein 3 Source MGI Symbol Acc MGI 1928479
G01	UPFM0925274	ENSMUST00000123355.7	Hspb6	ENSMUSG00000036854	heat shock protein, alpha-crystallin-related, B6 Source MGI Symbol Acc MGI 2685325
G02	UPFM0774141	ENSMUST00000102486.4	Hspb7	ENSMUSG00000006221	heat shock protein family, member 7 (cardiovascular) Source MGI Symbol Acc MGI 1352494
G03	UPFM0642186	ENSMUST00000133335.1	Hspb8	ENSMUSG00000041548	heat shock protein 8 Source MGI Symbol Acc MGI 2135756
G04	UPFM0787324	ENSMUST00000144077.2	Hspd1	ENSMUSG00000025980	heat shock protein 1 (chaperonin) Source MGI Symbol Acc MGI 96242
G05	UPFM0856349	ENSMUST00000075242.6	Hspe1	ENSMUSG00000073676	heat shock protein 1 (chaperonin 10) Source MGI Symbol Acc MGI 104680
G06	UPFM0763766	ENSMUST00000202089.3	Hsph1	ENSMUSG00000029657	heat shock 105kDa/110kDa protein 1 Source MGI Symbol Acc MGI 105053
G07	UPFM0742808	ENSMUST00000025204.6	Pfdn1	ENSMUSG00000024346	prefoldin 1 Source MGI Symbol Acc MGI 1914449
G08	UPFM0659075	ENSMUST00000138323.1	Pfdn2	ENSMUSG00000006412	prefoldin 2 Source MGI Symbol Acc MGI 1276111
G09	UPFM1000971	ENSMUST00000208119.1	Serpinh1	ENSMUSG00000070436	serine (or cysteine) peptidase inhibitor, clade H, member 1 Source MGI Symbol Acc MGI 88283
G10	UPFM0764133	ENSMUST00000237309.1	Sil1	ENSMUSG00000024357	endoplasmic reticulum chaperone SIL1 homolog (S. cerevisiae) Source MGI Symbol Acc MGI 1932040
G11	UPFM0819121	ENSMUST00000138709.1	Tcp1	ENSMUSG00000068039	t-complex protein 1 Source MGI Symbol Acc MGI 98535
G12	UPFM0933287	ENSMUST00000144152.1	Tor1a	ENSMUSG00000026849	torsin family 1, member A (torsin A) Source MGI Symbol Acc MGI 1353568
H01	UPFM1132946	ENSMUST00000163829.1	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM1126609	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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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.