

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

Human Heat Shock Proteins & Chaperones

Cat. no. 249955 UPHS-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	DNAJC21	DNAJC3	DNAJC4	DNAJC5	DNAJC5B	DNAJC5G
E	DNAJC6	DNAJC7	DNAJC8	DNAJC9	HSF1	HSF2	HSF4	HSP90AA1	HSP90AB1	HSP90B1	HSPA14	HSPA1A
F	HSPA1B	HSPA1L	HSPA2	HSPA4	HSPA4L	HSPA5	HSPA6	HSPA8	HSPA9	HSPB1	HSPB2	HSPB3
G	HSPB6	HSPB7	HSPB8	HSPD1	HSPE1	HSPH1	PFDN1	PFDN2	SERPINH1	SIL1	TCP1	TOR1A
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFH0357073	ENST00000366777.4	COQ8A	ENSG00000163050	coenzyme Q8A Source HGNC Symbol Acc HGNC 16812
A02	UPFH1132245	ENST00000367942.4	ATF6	ENSG00000118217	activating transcription factor 6 Source HGNC Symbol Acc HGNC 791
A03	UPFH1132265	ENST00000641048.1	BAG1	ENSG00000107262	BCL2 associated athanogene 1 Source HGNC Symbol Acc HGNC 937
A04	UPFH0010929	ENST00000370693.5	BAG2	ENSG00000112208	BCL2 associated athanogene 2 Source HGNC Symbol Acc HGNC 938
A05	UPFH0352059	ENST00000369085.7	BAG3	ENSG00000151929	BCL2 associated athanogene 3 Source HGNC Symbol Acc HGNC 939
A06	UPFH0609555	ENST00000521311.1	BAG4	ENSG00000156735	BCL2 associated athanogene 4 Source HGNC Symbol Acc HGNC 940
A07	UPFH0236060	ENST00000337322.4	BAG5	ENSG00000166170	BCL2 associated athanogene 5 Source HGNC Symbol Acc HGNC 941
A08	UPFH0186344	ENST00000531990.1	CCS	ENSG00000173992	copper chaperone for superoxide dismutase Source HGNC Symbol Acc HGNC 1613
A09	UPFH0394157	ENST00000550010.5	CCT2	ENSG00000166226	chaperonin containing TCP1 subunit 2 Source HGNC Symbol Acc HGNC 1615
A10	UPFH0551025	ENST00000368259.6	CCT3	ENSG00000163468	chaperonin containing TCP1 subunit 3 Source HGNC Symbol Acc HGNC 1616
A11	UPFH0540146	ENST00000544079.2	CCT4	ENSG00000115484	chaperonin containing TCP1 subunit 4 Source HGNC Symbol Acc HGNC 1617
A12	UPFH0226819	ENST00000506600.1	CCT5	ENSG00000150753	chaperonin containing TCP1 subunit 5 Source HGNC Symbol Acc HGNC 1618
B01	UPFH0614819	ENST00000482776.1	CCT6A	ENSG00000146731	chaperonin containing TCP1 subunit 6A Source HGNC Symbol Acc HGNC 1620
B02	UPFH0249814	ENST00000421975.7	CCT6B	ENSG00000132141	chaperonin containing TCP1 subunit 6B Source HGNC Symbol Acc HGNC 1621
B03	UPFH0445135	ENST00000399032.2	CCT7	ENSG00000135624	chaperonin containing TCP1 subunit 7 Source HGNC Symbol Acc HGNC 1622
B04	UPFH0600167	ENST00000482775.1	CRYAA	ENSG00000160202	crystallin alpha A Source HGNC Symbol Acc HGNC 2388
B05	UPFH0205096	ENST00000527950.5	CRYAB	ENSG00000109846	crystallin alpha B Source HGNC Symbol Acc HGNC 2389
B06	UPFH0149656	ENST00000465677.1	DNAJA1	ENSG00000086061	DnaJ heat shock protein family (Hsp40) member A1 Source HGNC Symbol Acc HGNC 5229
B07	UPFH0100785	ENST00000317089.10	DNAJA2	ENSG00000069345	DnaJ heat shock protein family (Hsp40) member A2 Source HGNC Symbol Acc HGNC 14884
B08	UPFH0450132	ENST00000262375.11	DNAJA3	ENSG00000103423	DnaJ heat shock protein family (Hsp40) member A3 Source HGNC Symbol Acc HGNC 11808
B09	UPFH0514383	ENST00000394855.7	DNAJA4	ENSG00000140403	DnaJ heat shock protein family (Hsp40) member A4 Source HGNC Symbol Acc HGNC 14885
B10	UPFH0089338	ENST00000595992.5	DNAJB1	ENSG00000132002	DnaJ heat shock protein family (Hsp40) member B1 Source HGNC Symbol Acc HGNC 5270
B11	UPFH0371628	ENST00000265028.7	DNAJB11	ENSG00000090520	DnaJ heat shock protein family (Hsp40) member B11 Source HGNC Symbol Acc HGNC 14889
B12	UPFH0119793	ENST00000444643.7	DNAJB12	ENSG00000148719	DnaJ heat shock protein family (Hsp40) member B12 Source HGNC Symbol Acc HGNC 14891
C01	UPFH0279519	ENST00000339764.5	DNAJB13	ENSG00000187726	DnaJ heat shock protein family (Hsp40) member B13 Source HGNC Symbol Acc HGNC 30718
C02	UPFH0521015	ENST00000493110.1	DNAJB14	ENSG00000164031	DnaJ heat shock protein family (Hsp40) member B14 Source HGNC Symbol Acc HGNC 25881
C03	UPFH1125221	ENST00000442681.5	DNAJB2	ENSG00000135924	DnaJ heat shock protein family (Hsp40) member B2 Source HGNC Symbol Acc HGNC 5228
C04	UPFH0161701	ENST00000539059.1	DNAJB5	ENSG00000137094	DnaJ heat shock protein family (Hsp40) member B5 Source HGNC Symbol Acc HGNC 14887
C05	UPFH0229595	ENST00000486083.6	DNAJB6	ENSG00000105993	DnaJ heat shock protein family (Hsp40) member B6 Source HGNC Symbol Acc HGNC 14888
C06	UPFH0050088	ENST00000307221.4	DNAJB7	ENSG00000172404	DnaJ heat shock protein family (Hsp40) member B7 Source HGNC Symbol Acc HGNC 24986
C07	UPFH0541596	ENST00000319153.3	DNAJB8	ENSG00000179407	DnaJ heat shock protein family (Hsp40) member B8 Source HGNC Symbol Acc HGNC 23699
C08	UPFH0227679	ENST00000249356.4	DNAJB9	ENSG00000128590	DnaJ heat shock protein family (Hsp40) member B9 Source HGNC Symbol Acc HGNC 6968
C09	UPFH0312013	ENST00000447548.5	DNAJC1	ENSG00000136770	DnaJ heat shock protein family (Hsp40) member C1 Source HGNC Symbol Acc HGNC 20090
C10	UPFH0339095	ENST00000469118.5	DNAJC10	ENSG00000077232	DnaJ heat shock protein family (Hsp40) member C10 Source HGNC Symbol Acc HGNC 24637
		ENST00000473		ENSG000000	DnaJ heat shock protein family (Hsp40) member C11 Source HGNC Symbol

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0046981	993.5	DNAJC11	007923	Acc HGNC 25570
C12	UPFH0550777	ENST00000480963.5	DNAJC12	ENSG00000108176	DnaJ heat shock protein family (Hsp40) member C12 Source HGNC Symbol Acc HGNC 28908
D01	UPFH0494951	ENST00000464766.1	DNAJC13	ENSG00000138246	DnaJ heat shock protein family (Hsp40) member C13 Source HGNC Symbol Acc HGNC 30343
D02	UPFH0545219	ENST00000357606.7	DNAJC14	ENSG00000135392	DnaJ heat shock protein family (Hsp40) member C14 Source HGNC Symbol Acc HGNC 24581
D03	UPFH0169878	ENST00000474320.1	DNAJC15	ENSG00000120675	DnaJ heat shock protein family (Hsp40) member C15 Source HGNC Symbol Acc HGNC 20325
D04	UPFH1124802	ENST00000375847.8	DNAJC16	ENSG00000116138	DnaJ heat shock protein family (Hsp40) member C16 Source HGNC Symbol Acc HGNC 29157
D05	UPFH0525800	ENST00000560645.5	DNAJC17	ENSG00000104129	DnaJ heat shock protein family (Hsp40) member C17 Source HGNC Symbol Acc HGNC 25556
D06	UPFH0001688	ENST00000505568.5	DNAJC18	ENSG00000170464	DnaJ heat shock protein family (Hsp40) member C18 Source HGNC Symbol Acc HGNC 28429
D07	UPFH0334937	ENST00000642285.1	DNAJC21	ENSG00000168724	DnaJ heat shock protein family (Hsp40) member C21 Source HGNC Symbol Acc HGNC 27030
D08	UPFH1132364	ENST00000602402.6	DNAJC3	ENSG00000102580	DnaJ heat shock protein family (Hsp40) member C3 Source HGNC Symbol Acc HGNC 9439
D09	UPFH0368905	ENST00000355040.8	DNAJC4	ENSG00000110011	DnaJ heat shock protein family (Hsp40) member C4 Source HGNC Symbol Acc HGNC 5271
D10	UPFH0215707	ENST00000470551.1	DNAJC5	ENSG00000101152	DnaJ heat shock protein family (Hsp40) member C5 Source HGNC Symbol Acc HGNC 16235
D11	UPFH0230992	ENST00000522619.1	DNAJC5B	ENSG00000147570	DnaJ heat shock protein family (Hsp40) member C5 beta Source HGNC Symbol Acc HGNC 24138
D12	UPFH0403020	ENST00000420191.5	DNAJC5G	ENSG00000163793	DnaJ heat shock protein family (Hsp40) member C5 gamma Source HGNC Symbol Acc HGNC 24844
E01	UPFH0183593	ENST00000395325.7	DNAJC6	ENSG00000116675	DnaJ heat shock protein family (Hsp40) member C6 Source HGNC Symbol Acc HGNC 15469
E02	UPFH0429286	ENST00000588641.5	DNAJC7	ENSG00000168259	DnaJ heat shock protein family (Hsp40) member C7 Source HGNC Symbol Acc HGNC 12392
E03	UPFH0336678	ENST00000489277.5	DNAJC8	ENSG00000126698	DnaJ heat shock protein family (Hsp40) member C8 Source HGNC Symbol Acc HGNC 15470
E04	UPFH0568649	ENST00000453189.2	DNAJC9	ENSG00000213551	DnaJ heat shock protein family (Hsp40) member C9 Source HGNC Symbol Acc HGNC 19123
E05	UPFH0041314	ENST00000528838.6	HSF1	ENSG00000185122	heat shock transcription factor 1 Source HGNC Symbol Acc HGNC 5224
E06	UPFH0077292	ENST00000452194.5	HSF2	ENSG000002025156	heat shock transcription factor 2 Source HGNC Symbol Acc HGNC 5225
E07	UPFH0047432	ENST00000519105.5	HSF4	ENSG00000102878	heat shock transcription factor 4 Source HGNC Symbol Acc HGNC 5227
E08	UPFH0292880	ENST00000334701.11	HSP90AA1	ENSG00000080824	heat shock protein 90 alpha family class A member 1 Source HGNC Symbol Acc HGNC 5253
E09	UPFH1132944	ENST00000371554.2	HSP90AB1	ENSG00000096384	heat shock protein 90 alpha family class B member 1 Source HGNC Symbol Acc HGNC 5258
E10	UPFH1132456	ENST00000299767.10	HSP90B1	ENSG00000166598	heat shock protein 90 beta family member 1 Source HGNC Symbol Acc HGNC 12028
E11	UPFH0357001	ENST00000470430.1	HSPA14	ENSG00000187522	heat shock protein family A (Hsp70) member 14 Source HGNC Symbol Acc HGNC 29526
E12	UPFH1126009	ENST00000375651.6	HSPA1A	ENSG00000204389	heat shock protein family A (Hsp70) member 1A Source HGNC Symbol Acc HGNC 5232
F01	UPFH0038526	ENST00000375650.5	HSPA1B	ENSG00000204388	heat shock protein family A (Hsp70) member 1B Source HGNC Symbol Acc HGNC 5233
F02	UPFH0163270	ENST00000375654.5	HSPA1L	ENSG00000204390	heat shock protein family A (Hsp70) member 1 like Source HGNC Symbol Acc HGNC 5234
F03	UPFH0516049	ENST00000394709.2	HSPA2	ENSG00000126803	heat shock protein family A (Hsp70) member 2 Source HGNC Symbol Acc HGNC 5235
F04	UPFH1132457	ENST00000304858.7	HSPA4	ENSG00000170606	heat shock protein family A (Hsp70) member 4 Source HGNC Symbol Acc HGNC 5237
F05	UPFH1132458	ENST00000505726.1	HSPA4L	ENSG00000164070	heat shock protein family A (Hsp70) member 4 like Source HGNC Symbol Acc HGNC 17041
F06	UPFH1132459	ENST00000324460.7	HSPA5	ENSG000002044574	heat shock protein family A (Hsp70) member 5 Source HGNC Symbol Acc HGNC 5238
F07	UPFH0124010	ENST00000309758.6	HSPA6	ENSG00000173110	heat shock protein family A (Hsp70) member 6 Source HGNC Symbol Acc HGNC 5239
F08	UPFH0509415	ENST00000453788.6	HSPA8	ENSG00000109971	heat shock protein family A (Hsp70) member 8 Source HGNC Symbol Acc HGNC 5241
F09	UPFH0218366	ENST00000506477.5	HSPA9	ENSG00000113013	heat shock protein family A (Hsp70) member 9 Source HGNC Symbol Acc HGNC 5244
F10	UPFH1139042	ENST00000248553.7	HSPB1	ENSG00000106211	heat shock protein family B (small) member 1 Source HGNC Symbol Acc HGNC 5246

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0393750	ENST00000304298.4	HSPB2	ENSG00000170276	heat shock protein family B (small) member 2 Source HGNC Symbol Acc HGNC 5247
F12	UPFH0022174	ENST00000302005.3	HSPB3	ENSG00000169271	heat shock protein family B (small) member 3 Source HGNC Symbol Acc HGNC 5248
G01	UPFH0163271	ENST00000587965.1	HSPB6	ENSG00000004776	heat shock protein family B (small) member 6 Source HGNC Symbol Acc HGNC 26511
G02	UPFH0525636	ENST00000375718.4	HSPB7	ENSG00000173641	heat shock protein family B (small) member 7 Source HGNC Symbol Acc HGNC 5249
G03	UPFH0474254	ENST00000281938.6	HSPB8	ENSG00000152137	heat shock protein family B (small) member 8 Source HGNC Symbol Acc HGNC 30171
G04	UPFH1132460	ENST00000388968.8	HSPD1	ENSG00000144381	heat shock protein family D (Hsp60) member 1 Source HGNC Symbol Acc HGNC 5261
G05	UPFH0442317	ENST00000465573.1	HSPE1	ENSG00000115541	heat shock protein family E (Hsp10) member 1 Source HGNC Symbol Acc HGNC 5269
G06	UPFH0572447	ENST00000435381.5	HSPH1	ENSG00000120694	heat shock protein family H (Hsp110) member 1 Source HGNC Symbol Acc HGNC 16969
G07	UPFH0152578	ENST00000510217.1	PFDN1	ENSG00000113068	prefoldin subunit 1 Source HGNC Symbol Acc HGNC 8866
G08	UPFH0267668	ENST00000368010.4	PFDN2	ENSG00000143256	prefoldin subunit 2 Source HGNC Symbol Acc HGNC 8867
G09	UPFH0251127	ENST00000358171.7	SERPINH1	ENSG00000149257	serpin family H member 1 Source HGNC Symbol Acc HGNC 1546
G10	UPFH0421264	ENST00000509534.5	SIL1	ENSG00000120725	SIL1 nucleotide exchange factor Source HGNC Symbol Acc HGNC 24624
G11	UPFH0050568	ENST00000392168.6	TCP1	ENSG00000120438	t-complex 1 Source HGNC Symbol Acc HGNC 11655
G12	UPFH0518786	ENST00000473604.2	TOR1A	ENSG00000136827	torsin family 1 member A Source HGNC Symbol Acc HGNC 3098
H01	UPFH1132936	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	UPFH1132937	ENST00000544417.5	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	UPFH1132938	ENST00000229239.10	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	UPFH1132939	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	UPFH1132941	ENST00000392514.9	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	UPFH1126608	UPL_HGDC	HGDC	UPL_HGDC	Human 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.