

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

Human Cellular Stress Responses

Cat. no. 249955 UPHS-019ZA

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	ACAD5B	BAG1	CALR	CANX	CAT	CCT2	CCT3	CCT4	CCT5	CCT7	CCT8	CES1
B	CLU	CRYAA	CRYAB	CYP11A1	CYP11B2	CYP17A1	CYP1A1	CYP1A2	CYP1B1	CYP2C19	CYP2C9	CYP2D6
C	CYP2E1	CYP2F1	CYP3A4	CYP4A11	CYP4B1	CYP7A1	CYP7B1	DNAJA1	DNAJA2	DNAJA3	DNAJA4	DNAJB1
D	DNAJB11	DNAJB12	DNAJB2	DNAJB4	DNAJB5	DNAJB6	DNAJB9	DNAJC1	DNAJC4	DNAJC5	DNAJC6	DNAJC7
E	DNAJC8	DNAJC9	EPHX2	FMO1	FMO4	FMO5	GPX1	GPX2	GSR	GSTA1	GSTA5	GSTM5
F	HMOX1	HMOX2	HOPX	HSPA12A	HSPA1A	HSPA1L	HSPA2	HSPA4	HSPA5	HSPA8	HSPA9	HSPB1
G	HSPB2	HSPB3	HSPD1	HSPF1	PPID	SERPINH1	SOD1	SOD2	SOD3	ST13	TCP1	XDH
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	UPFH0013750	ENST00000358776.6	ACADSB	ENSG00000196177	acyl-CoA dehydrogenase short/branched chain Source HGNC Symbol Acc HGNC 91
A02	UPFH1132265	ENST00000641048.1	BAG1	ENSG00000107262	BCL2 associated athanogene 1 Source HGNC Symbol Acc HGNC 937
A03	UPFH0025967	ENST00000316448.9	CALR	ENSG00000179218	calreticulin Source HGNC Symbol Acc HGNC 1455
A04	UPFH0114306	ENST00000504579.5	CANX	ENSG00000127022	calnexin Source HGNC Symbol Acc HGNC 1473
A05	UPFH1132782	ENST00000648322.1	CAT	ENSG00000121691	catalase Source HGNC Symbol Acc HGNC 1516
A06	UPFH0394157	ENST0000055010.5	CCT2	ENSG00000166226	chaperonin containing TCP1 subunit 2 Source HGNC Symbol Acc HGNC 1615
A07	UPFH0551025	ENST00000368259.6	CCT3	ENSG00000163468	chaperonin containing TCP1 subunit 3 Source HGNC Symbol Acc HGNC 1616
A08	UPFH0540146	ENST00000544079.2	CCT4	ENSG00000115484	chaperonin containing TCP1 subunit 4 Source HGNC Symbol Acc HGNC 1617
A09	UPFH0226819	ENST00000506600.1	CCT5	ENSG00000150753	chaperonin containing TCP1 subunit 5 Source HGNC Symbol Acc HGNC 1618
A10	UPFH0445135	ENST00000399032.2	CCT7	ENSG00000135624	chaperonin containing TCP1 subunit 7 Source HGNC Symbol Acc HGNC 1622
A11	UPFH0364698	ENST00000540844.5	CCT8	ENSG00000156261	chaperonin containing TCP1 subunit 8 Source HGNC Symbol Acc HGNC 1623
A12	UPFH0182346	ENST00000360526.7	CES1	ENSG00000198848	carboxylesterase 1 Source HGNC Symbol Acc HGNC 1863
B01	UPFH0432344	ENST00000519472.5	CLU	ENSG00000120885	clusterin Source HGNC Symbol Acc HGNC 2095
B02	UPFH0600167	ENST00000482775.1	CRYAA	ENSG00000160202	crystallin alpha A Source HGNC Symbol Acc HGNC 2388
B03	UPFH0205096	ENST00000527950.5	CRYAB	ENSG00000109846	crystallin alpha B Source HGNC Symbol Acc HGNC 2389
B04	UPFH0490188	ENST00000566674.5	CYP11A1	ENSG00000140459	cytochrome P450 family 11 subfamily A member 1 Source HGNC Symbol Acc HGNC 2590
B05	UPFH0295836	ENST00000323110.2	CYP11B2	ENSG00000179142	cytochrome P450 family 11 subfamily B member 2 Source HGNC Symbol Acc HGNC 2592
B06	UPFH0464356	ENST00000638971.1	CYP17A1	ENSG00000148795	cytochrome P450 family 17 subfamily A member 1 Source HGNC Symbol Acc HGNC 2593
B07	UPFH0157953	ENST00000379727.8	CYP1A1	ENSG00000140465	cytochrome P450 family 1 subfamily A member 1 Source HGNC Symbol Acc HGNC 2595
B08	UPFH0144678	ENST00000343932.5	CYP1A2	ENSG00000140505	cytochrome P450 family 1 subfamily A member 2 Source HGNC Symbol Acc HGNC 2596
B09	UPFH0402095	ENST00000491456.1	CYP1B1	ENSG00000138061	cytochrome P450 family 1 subfamily B member 1 Source HGNC Symbol Acc HGNC 2597
B10	UPFH0155901	ENST00000371321.9	CYP2C19	ENSG00000165841	cytochrome P450 family 2 subfamily C member 19 Source HGNC Symbol Acc HGNC 2621
B11	UPFH0408357	ENST00000473496.1	CYP2C9	ENSG00000138109	cytochrome P450 family 2 subfamily C member 9 Source HGNC Symbol Acc HGNC 2623
B12	UPFH1124262	ENST00000645361.2	CYP2D6	ENSG00000100197	cytochrome P450 family 2 subfamily D member 6 Source HGNC Symbol Acc HGNC 2625
C01	UPFH0106530	ENST00000421586.5	CYP2E1	ENSG00000130649	cytochrome P450 family 2 subfamily E member 1 Source HGNC Symbol Acc HGNC 2631
C02	UPFH0131393	ENST00000331105.7	CYP2F1	ENSG00000197446	cytochrome P450 family 2 subfamily F member 1 Source HGNC Symbol Acc HGNC 2632
C03	UPFH0526520	ENST00000354593.6	CYP3A4	ENSG00000160868	cytochrome P450 family 3 subfamily A member 4 Source HGNC Symbol Acc HGNC 2637
C04	UPFH0132000	ENST00000475477.5	CYP4A11	ENSG00000187048	cytochrome P450 family 4 subfamily A member 11 Source HGNC Symbol Acc HGNC 2642
C05	UPFH0117470	ENST00000464439.6	CYP4B1	ENSG00000142973	cytochrome P450 family 4 subfamily B member 1 Source HGNC Symbol Acc HGNC 2644
C06	UPFH0370331	ENST00000301645.4	CYP7A1	ENSG00000167910	cytochrome P450 family 7 subfamily A member 1 Source HGNC Symbol Acc HGNC 2651
C07	UPFH0193665	ENST00000523954.1	CYP7B1	ENSG00000172817	cytochrome P450 family 7 subfamily B member 1 Source HGNC Symbol Acc HGNC 2652
C08	UPFH0149656	ENST00000465677.1	DNAJA1	ENSG00000086061	DnaJ heat shock protein family (Hsp40) member A1 Source HGNC Symbol Acc HGNC 5229
C09	UPFH0100785	ENST00000317089.10	DNAJA2	ENSG00000069345	DnaJ heat shock protein family (Hsp40) member A2 Source HGNC Symbol Acc HGNC 14884
C10	UPFH0450132	ENST00000262375.11	DNAJA3	ENSG00000103423	DnaJ heat shock protein family (Hsp40) member A3 Source HGNC Symbol Acc HGNC 11808
		ENST00000394		ENSG000000	DnaJ heat shock protein family (Hsp40) member A4 Source HGNC Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0514383	855.7	DNAJA4	140403	HGNC 14885
C12	UPFH0089338	ENST00000595992.5	DNAJB1	ENSG00000132002	DnaJ heat shock protein family (Hsp40) member B1 Source HGNC Symbol Acc HGNC 5270
D01	UPFH0371628	ENST00000265028.7	DNAJB11	ENSG00000090520	DnaJ heat shock protein family (Hsp40) member B11 Source HGNC Symbol Acc HGNC 14889
D02	UPFH0119793	ENST00000444643.7	DNAJB12	ENSG00000148719	DnaJ heat shock protein family (Hsp40) member B12 Source HGNC Symbol Acc HGNC 14891
D03	UPFH1125221	ENST00000442681.5	DNAJB2	ENSG00000135924	DnaJ heat shock protein family (Hsp40) member B2 Source HGNC Symbol Acc HGNC 5228
D04	UPFH0350055	ENST00000426517.1	DNAJB4	ENSG00000162616	DnaJ heat shock protein family (Hsp40) member B4 Source HGNC Symbol Acc HGNC 14886
D05	UPFH0161701	ENST00000539059.1	DNAJB5	ENSG00000137094	DnaJ heat shock protein family (Hsp40) member B5 Source HGNC Symbol Acc HGNC 14887
D06	UPFH0229595	ENST00000486083.6	DNAJB6	ENSG00000105993	DnaJ heat shock protein family (Hsp40) member B6 Source HGNC Symbol Acc HGNC 14888
D07	UPFH0227679	ENST00000249356.4	DNAJB9	ENSG00000128590	DnaJ heat shock protein family (Hsp40) member B9 Source HGNC Symbol Acc HGNC 6968
D08	UPFH0312013	ENST00000447548.5	DNAJC1	ENSG00000136770	DnaJ heat shock protein family (Hsp40) member C1 Source HGNC Symbol Acc HGNC 20090
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	UPFH0183593	ENST00000395325.7	DNAJC6	ENSG00000116675	DnaJ heat shock protein family (Hsp40) member C6 Source HGNC Symbol Acc HGNC 15469
D12	UPFH0429286	ENST00000588641.5	DNAJC7	ENSG00000168259	DnaJ heat shock protein family (Hsp40) member C7 Source HGNC Symbol Acc HGNC 12392
E01	UPFH0336678	ENST00000489277.5	DNAJC8	ENSG00000126698	DnaJ heat shock protein family (Hsp40) member C8 Source HGNC Symbol Acc HGNC 15470
E02	UPFH0568649	ENST00000453189.2	DNAJC9	ENSG00000213551	DnaJ heat shock protein family (Hsp40) member C9 Source HGNC Symbol Acc HGNC 19123
E03	UPFH0039157	ENST00000521400.5	EPHX2	ENSG00000120915	epoxide hydrolase 2 Source HGNC Symbol Acc HGNC 3402
E04	UPFH0518351	ENST00000354841.4	FMO1	ENSG00000010932	flavin containing monooxygenase 1 Source HGNC Symbol Acc HGNC 3769
E05	UPFH0497436	ENST00000480136.1	FMO4	ENSG00000076258	flavin containing monooxygenase 4 Source HGNC Symbol Acc HGNC 3772
E06	UPFH0089195	ENST00000619062.1	FMO5	ENSG00000131781	flavin containing monooxygenase 5 Source HGNC Symbol Acc HGNC 3773
E07	UPFH1132423	ENST00000419783.3	GPX1	ENSG00000233276	glutathione peroxidase 1 Source HGNC Symbol Acc HGNC 4553
E08	UPFH1132802	ENST00000612794.1	GPX2	ENSG00000176153	glutathione peroxidase 2 Source HGNC Symbol Acc HGNC 4554
E09	UPFH1132805	ENST00000546342.5	GSR	ENSG00000104687	glutathione-disulfide reductase Source HGNC Symbol Acc HGNC 4623
E10	UPFH0492642	ENST00000493331.5	GSTA1	ENSG00000243955	glutathione S-transferase alpha 1 Source HGNC Symbol Acc HGNC 4626
E11	UPFH0511974	ENST00000370989.6	GSTA5	ENSG00000182793	glutathione S-transferase alpha 5 Source HGNC Symbol Acc HGNC 19662
E12	UPFH0336373	ENST00000369812.6	GSTM5	ENSG00000134201	glutathione S-transferase mu 5 Source HGNC Symbol Acc HGNC 4637
F01	UPFH0433285	ENST00000216117.9	HMOX1	ENSG00000100292	heme oxygenase 1 Source HGNC Symbol Acc HGNC 5013
F02	UPFH0317301	ENST00000575051.5	HMOX2	ENSG00000103415	heme oxygenase 2 Source HGNC Symbol Acc HGNC 5014
F03	UPFH0063993	ENST00000503639.7	HOPX	ENSG00000171476	HOP homeobox Source HGNC Symbol Acc HGNC 24961
F04	UPFH0531511	ENST00000481291.1	HSPA12A	ENSG00000165868	heat shock protein family A (Hsp70) member 12A Source HGNC Symbol Acc HGNC 19022
F05	UPFH1126009	ENST00000375651.6	HSPA1A	ENSG00000204389	heat shock protein family A (Hsp70) member 1A Source HGNC Symbol Acc HGNC 5232
F06	UPFH0163270	ENST00000375654.5	HSPA1L	ENSG00000204390	heat shock protein family A (Hsp70) member 1 like Source HGNC Symbol Acc HGNC 5234
F07	UPFH0516049	ENST00000394709.2	HSPA2	ENSG00000126803	heat shock protein family A (Hsp70) member 2 Source HGNC Symbol Acc HGNC 5235
F08	UPFH1132457	ENST00000304858.7	HSPA4	ENSG00000170606	heat shock protein family A (Hsp70) member 4 Source HGNC Symbol Acc HGNC 5237
F09	UPFH1132459	ENST00000324460.7	HSPA5	ENSG00000044574	heat shock protein family A (Hsp70) member 5 Source HGNC Symbol Acc HGNC 5238
F10	UPFH0509415	ENST00000453788.6	HSPA8	ENSG00000109971	heat shock protein family A (Hsp70) member 8 Source HGNC Symbol Acc HGNC 5241

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0218366	ENST00000506477.5	HSPA9	ENSG00000113013	heat shock protein family A (Hsp70) member 9 Source HGNC Symbol Acc HGNC 5244
F12	UPFH1139042	ENST00000248553.7	HSPB1	ENSG00000106211	heat shock protein family B (small) member 1 Source HGNC Symbol Acc HGNC 5246
G01	UPFH0393750	ENST00000304298.4	HSPB2	ENSG00000170276	heat shock protein family B (small) member 2 Source HGNC Symbol Acc HGNC 5247
G02	UPFH0022174	ENST00000302005.3	HSPB3	ENSG00000169271	heat shock protein family B (small) member 3 Source HGNC Symbol Acc HGNC 5248
G03	UPFH1132460	ENST00000388968.8	HSPD1	ENSG00000144381	heat shock protein family D (Hsp60) member 1 Source HGNC Symbol Acc HGNC 5261
G04	UPFH0442317	ENST00000465573.1	HSPE1	ENSG00000115541	heat shock protein family E (Hsp10) member 1 Source HGNC Symbol Acc HGNC 5269
G05	UPFH0090909	ENST00000307720.4	PPID	ENSG00000171497	peptidylprolyl isomerase D Source HGNC Symbol Acc HGNC 9257
G06	UPFH0251127	ENST00000358171.7	SERPINH1	ENSG00000149257	serpin family H member 1 Source HGNC Symbol Acc HGNC 1546
G07	UPFH0220920	ENST00000270142.10	SOD1	ENSG00000142168	superoxide dismutase 1 Source HGNC Symbol Acc HGNC 11179
G08	UPFH1132692	ENST00000367055.8	SOD2	ENSG00000112096	superoxide dismutase 2 Source HGNC Symbol Acc HGNC 11180
G09	UPFH1132842	ENST00000382120.4	SOD3	ENSG00000109610	superoxide dismutase 3 Source HGNC Symbol Acc HGNC 11181
G10	UPFH0005487	ENST00000411695.1	ST13	ENSG00000100380	ST13, Hsp70 interacting protein Source HGNC Symbol Acc HGNC 11343
G11	UPFH0050568	ENST00000392168.6	TCP1	ENSG00000120438	t-complex 1 Source HGNC Symbol Acc HGNC 11655
G12	UPFH0207114	ENST00000379416.4	XDH	ENSG00000158125	xanthine dehydrogenase Source HGNC Symbol Acc HGNC 12805
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.