

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

Human Molecular Toxicology PathwayFinder

Cat. no. 249955 UPHS-401ZA

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	ABCB4	ABCC2	ABCC3	ACADM	ACADVL	ACOX1	ADH1C	ADM2	AKR1C2	AKT1	ARRDC3	ASAH1
B	ASB1	ASNS	ATM	ATP8B1	BCL2	BCL2L1	BRCA1	CASP8	CASP9	CD36	CDKN1A	CPT1A
C	CPT1B	CPT2	CYB561D1	CYLD	CYP1A2	CYP2B6	CYP2C19	CYP2C9	CYP2D6	DNAJB1	DNAJB9	ERCC2
D	F2	FASLG	FASN	FHL2	GCLM	GRB2	HERPUD1	HMOX1	HPN	HPX	HSF1	HSP90B1
E	HSPA1A	HSPA1B	HSPA4	HSPA8	HSPB1	HSPD1	INHBE	LPL	LSS	LYZ	MAG	MDM2
F	METAP2	MKI67	NCOA7	NQO1	NR5A2	SLC51A	PARP2	PDYN	PPARA	PVR	RAD51	RDX
G	SCD	SERPINA3	SLC25A25	SLC2A3	SLC7A11	SREBF1	TAGLN	TRIB3	TRIM10	TXNL4B	UHRF1	WIP1
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	UPFH0185386	ENST00000644106.1	ABCB4	ENSG00000005471	ATP binding cassette subfamily B member 4 Source HGNC Symbol Acc HGNC 45
A02	UPFH0460991	ENST00000649493.1	ABCC2	ENSG00000023839	ATP binding cassette subfamily C member 2 Source HGNC Symbol Acc HGNC 53
A03	UPFH0384648	ENST00000513589.1	ABCC3	ENSG000000108846	ATP binding cassette subfamily C member 3 Source HGNC Symbol Acc HGNC 54
A04	UPFH0171314	ENST00000525808.5	ACADM	ENSG000000117054	acyl-CoA dehydrogenase medium chain Source HGNC Symbol Acc HGNC 89
A05	UPFH0017990	ENST00000585203.6	ACADVL	ENSG000000072778	acyl-CoA dehydrogenase very long chain Source HGNC Symbol Acc HGNC 92
A06	UPFH0241138	ENST00000573078.5	ACOX1	ENSG000000161533	acyl-CoA oxidase 1 Source HGNC Symbol Acc HGNC 119
A07	UPFH0154565	ENST00000505942.2	ADH1C	ENSG000000248144	alcohol dehydrogenase 1C (class I), gamma polypeptide Source HGNC Symbol Acc HGNC 251
A08	UPFH0530345	ENST00000395737.2	ADM2	ENSG000000128165	adrenomedullin 2 Source HGNC Symbol Acc HGNC 28898
A09	UPFH0356095	ENST00000455190.2	AKR1C2	ENSG000000151632	aldo-keto reductase family 1 member C2 Source HGNC Symbol Acc HGNC 385
A10	UPFH0453992	ENST0000055528.5	AKT1	ENSG000000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A11	UPFH0014612	ENST00000507075.1	ARRDC3	ENSG000000113369	arrestin domain containing 3 Source HGNC Symbol Acc HGNC 29263
A12	UPFH0273095	ENST00000523593.6	ASAH1	ENSG000000104763	N-acylsphingosine amidohydrolase 1 Source HGNC Symbol Acc HGNC 735
B01	UPFH0262275	ENST00000409297.1	ASB1	ENSG000000065802	ankyrin repeat and SOCS box containing 1 Source HGNC Symbol Acc HGNC 16011
B02	UPFH0522170	ENST00000394308.8	ASNS	ENSG000000070669	asparagine synthetase (glutamine-hydrolyzing) Source HGNC Symbol Acc HGNC 753
B03	UPFH1132252	ENST00000527805.5	ATM	ENSG000000149311	ATM serine/threonine kinase Source HGNC Symbol Acc HGNC 795
B04	UPFH0280440	ENST00000648039.1	ATP8B1	ENSG000000081923	ATPase phospholipid transporting 8B1 Source HGNC Symbol Acc HGNC 3706
B05	UPFH1132900	ENST00000333681.5	BCL2	ENSG000000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
B06	UPFH1132271	ENST00000376062.6	BCL2L1	ENSG000000171552	BCL2 like 1 Source HGNC Symbol Acc HGNC 992
B07	UPFH1132279	ENST00000461574.1	BRCA1	ENSG000000012048	BRCA1, DNA repair associated Source HGNC Symbol Acc HGNC 1100
B08	UPFH0522971	ENST00000264275.9	CASP8	ENSG000000064012	caspase 8 Source HGNC Symbol Acc HGNC 1509
B09	UPFH0083593	ENST00000440484.1	CASP9	ENSG000000132906	caspase 9 Source HGNC Symbol Acc HGNC 1511
B10	UPFH1125151	ENST00000433696.6	CD36	ENSG000000135218	CD36 molecule Source HGNC Symbol Acc HGNC 1663
B11	UPFH0312181	ENST00000244741.9	CDKN1A	ENSG000000124762	cyclin dependent kinase inhibitor 1A Source HGNC Symbol Acc HGNC 1784
B12	UPFH0043897	ENST00000540367.5	CPT1A	ENSG000000110090	carnitine palmitoyltransferase 1A Source HGNC Symbol Acc HGNC 2328
C01	UPFH0183411	ENST00000395650.6	CPT1B	ENSG000000205560	carnitine palmitoyltransferase 1B Source HGNC Symbol Acc HGNC 2329
C02	UPFH1132334	ENST00000636891.1	CPT2	ENSG000000157184	carnitine palmitoyltransferase 2 Source HGNC Symbol Acc HGNC 2330
C03	UPFH0087653	ENST00000527072.5	CYB561D1	ENSG000000174151	cytochrome b561 family member D1 Source HGNC Symbol Acc HGNC 26804
C04	UPFH0025683	ENST00000311559.13	CYLD	ENSG000000083799	CYLD lysine 63 deubiquitinase Source HGNC Symbol Acc HGNC 2584
C05	UPFH0144678	ENST00000343932.5	CYP1A2	ENSG000000140505	cytochrome P450 family 1 subfamily A member 2 Source HGNC Symbol Acc HGNC 2596
C06	UPFH0456289	ENST00000597612.1	CYP2B6	ENSG000000197408	cytochrome P450 family 2 subfamily B member 6 Source HGNC Symbol Acc HGNC 2615
C07	UPFH0155901	ENST00000371321.9	CYP2C19	ENSG000000165841	cytochrome P450 family 2 subfamily C member 19 Source HGNC Symbol Acc HGNC 2621
C08	UPFH0408357	ENST00000473496.1	CYP2C9	ENSG000000138109	cytochrome P450 family 2 subfamily C member 9 Source HGNC Symbol Acc HGNC 2623
C09	UPFH1124262	ENST00000645361.2	CYP2D6	ENSG000000100197	cytochrome P450 family 2 subfamily D member 6 Source HGNC Symbol Acc HGNC 2625
C10	UPFH0089338	ENST00000595992.5	DNAJB1	ENSG000000132002	DnaJ heat shock protein family (Hsp40) member B1 Source HGNC Symbol Acc HGNC 5270
		ENST00000249		ENSG000000	DnaJ heat shock protein family (Hsp40) member B9 Source HGNC Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0227679	356.4	DNAJB9	128590	HGNC 6968
C12	UPFH0404848	ENST00000391945.9	ERCC2	ENSG00000104884	ERCC excision repair 2, TFIIH core complex helicase subunit Source HGNC Symbol Acc HGNC 3434
D01	UPFH0125116	ENST00000311907.9	F2	ENSG00000180210	coagulation factor II, thrombin Source HGNC Symbol Acc HGNC 3535
D02	UPFH1132396	ENST00000367721.3	FASLG	ENSG00000117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
D03	UPFH0422393	ENST00000635197.1	FASN	ENSG00000169710	fatty acid synthase Source HGNC Symbol Acc HGNC 3594
D04	UPFH0320178	ENST00000322142.13	FHL2	ENSG00000115641	four and a half LIM domains 2 Source HGNC Symbol Acc HGNC 3703
D05	UPFH1132418	ENST000003370238.8	GCLM	ENSG00000023909	glutamate-cysteine ligase modifier subunit Source HGNC Symbol Acc HGNC 4312
D06	UPFH1132426	ENST000003392564.5	GRB2	ENSG00000177885	growth factor receptor bound protein 2 Source HGNC Symbol Acc HGNC 4566
D07	UPFH1132441	ENST000003379792.6	HERPUD1	ENSG00000051108	homocysteine inducible ER protein with ubiquitin like domain 1 Source HGNC Symbol Acc HGNC 13744
D08	UPFH0433285	ENST00000216117.9	HMOX1	ENSG00000100292	heme oxygenase 1 Source HGNC Symbol Acc HGNC 5013
D09	UPFH0344390	ENST00000262626.6	HPN	ENSG00000105707	hepsin Source HGNC Symbol Acc HGNC 5155
D10	UPFH0383223	ENST00000533369.5	HPX	ENSG00000110169	hemopexin Source HGNC Symbol Acc HGNC 5171
D11	UPFH0041314	ENST00000528838.6	HSF1	ENSG00000185122	heat shock transcription factor 1 Source HGNC Symbol Acc HGNC 5224
D12	UPFH1132456	ENST00000299767.10	HSP90B1	ENSG00000166598	heat shock protein 90 beta family member 1 Source HGNC Symbol Acc HGNC 12028
E01	UPFH1126009	ENST000003375651.6	HSPA1A	ENSG00000204389	heat shock protein family A (Hsp70) member 1A Source HGNC Symbol Acc HGNC 5232
E02	UPFH0038526	ENST000003375650.5	HSPA1B	ENSG00000204388	heat shock protein family A (Hsp70) member 1B Source HGNC Symbol Acc HGNC 5233
E03	UPFH1132457	ENST000003304858.7	HSPA4	ENSG00000170606	heat shock protein family A (Hsp70) member 4 Source HGNC Symbol Acc HGNC 5237
E04	UPFH0509415	ENST00000453788.6	HSPA8	ENSG00000109971	heat shock protein family A (Hsp70) member 8 Source HGNC Symbol Acc HGNC 5241
E05	UPFH1139042	ENST00000248553.7	HSPB1	ENSG00000106211	heat shock protein family B (small) member 1 Source HGNC Symbol Acc HGNC 5246
E06	UPFH1132460	ENST000003388968.8	HSPD1	ENSG00000144381	heat shock protein family D (Hsp60) member 1 Source HGNC Symbol Acc HGNC 5261
E07	UPFH1132813	ENST00000547970.1	INHBE	ENSG00000139269	inhibin subunit beta E Source HGNC Symbol Acc HGNC 24029
E08	UPFH1132523	ENST00000311322.10	LPL	ENSG00000175445	lipoprotein lipase Source HGNC Symbol Acc HGNC 6677
E09	UPFH0102790	ENST00000464357.1	LSS	ENSG00000160285	lanosterol synthase Source HGNC Symbol Acc HGNC 6708
E10	UPFH0398421	ENST00000261267.6	LYZ	ENSG00000090382	lysozyme Source HGNC Symbol Acc HGNC 6740
E11	UPFH0265574	ENST00000595791.5	MAG	ENSG00000105695	myelin associated glycoprotein Source HGNC Symbol Acc HGNC 6783
E12	UPFH1132546	ENST000003393416.6	MDM2	ENSG00000135679	MDM2 proto-oncogene Source HGNC Symbol Acc HGNC 6973
F01	UPFH0056027	ENST00000550777.5	METAP2	ENSG00000111142	methionyl aminopeptidase 2 Source HGNC Symbol Acc HGNC 16672
F02	UPFH1132549	ENST00000368653.7	MKI67	ENSG00000148773	marker of proliferation Ki-67 Source HGNC Symbol Acc HGNC 7107
F03	UPFH0502122	ENST00000487635.1	NCOA7	ENSG00000111912	nuclear receptor coactivator 7 Source HGNC Symbol Acc HGNC 21081
F04	UPFH1132829	ENST000003320623.10	NQO1	ENSG00000181019	NAD(P)H quinone dehydrogenase 1 Source HGNC Symbol Acc HGNC 2874
F05	UPFH0067008	ENST00000367357.3	NR5A2	ENSG00000116833	nuclear receptor subfamily 5 group A member 2 Source HGNC Symbol Acc HGNC 7984
F06	UPFH0574868	ENST00000296327.10	SLC51A	ENSG00000163959	solute carrier family 51 alpha subunit Source HGNC Symbol Acc HGNC 29955
F07	UPFH0154861	ENST00000527915.5	PARP2	ENSG00000129484	poly(ADP-ribose) polymerase 2 Source HGNC Symbol Acc HGNC 272
F08	UPFH0279011	ENST00000651684.1	PDYN	ENSG00000101327	prodynorphin Source HGNC Symbol Acc HGNC 8820
F09	UPFH0327373	ENST00000262735.9	PPARA	ENSG00000186951	peroxisome proliferator activated receptor alpha Source HGNC Symbol Acc HGNC 9232
F10	UPFH1132644	ENST00000403059.8	PVR	ENSG00000073008	poliovirus receptor Source HGNC Symbol Acc HGNC 9705

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH1132651	ENST00000532743.6	RAD51	ENSG00000051180	RAD51 recombinase Source HGNC Symbol Acc HGNC 9817
F12	UPFH0413152	ENST00000646663.1	RDX	ENSG000000137710	radixin Source HGNC Symbol Acc HGNC 9944
G01	UPFH0108490	ENST00000370355.3	SCD	ENSG000000099194	stearoyl-CoA desaturase Source HGNC Symbol Acc HGNC 10571
G02	UPFH0304898	ENST00000393078.4	SERPINA3	ENSG000000196136	serpin family A member 3 Source HGNC Symbol Acc HGNC 16
G03	UPFH0425295	ENST00000445012.2	SLC25A25	ENSG000000148339	solute carrier family 25 member 25 Source HGNC Symbol Acc HGNC 20663
G04	UPFH0576721	ENST00000544291.1	SLC2A3	ENSG000000059804	solute carrier family 2 member 3 Source HGNC Symbol Acc HGNC 11007
G05	UPFH0169868	ENST00000509248.1	SLC7A11	ENSG000000151012	solute carrier family 7 member 11 Source HGNC Symbol Acc HGNC 11059
G06	UPFH0380685	ENST00000490796.1	SREBF1	ENSG000000072310	sterol regulatory element binding transcription factor 1 Source HGNC Symbol Acc HGNC 11289
G07	UPFH0076430	ENST00000529622.1	TAGLN	ENSG000000149591	transgelin Source HGNC Symbol Acc HGNC 11553
G08	UPFH0237817	ENST00000217233.8	TRIB3	ENSG000000101255	tribbles pseudokinase 3 Source HGNC Symbol Acc HGNC 16228
G09	UPFH0064959	ENST00000376704.3	TRIM10	ENSG000000204613	tripartite motif containing 10 Source HGNC Symbol Acc HGNC 10072
G10	UPFH1132745	ENST00000426362.6	TXNL4B	ENSG000000140830	thioredoxin like 4B Source HGNC Symbol Acc HGNC 26041
G11	UPFH0483175	ENST00000615884.4	UHRF1	ENSG000000276043	ubiquitin like with PHD and ring finger domains 1 Source HGNC Symbol Acc HGNC 12556
G12	UPFH1132760	ENST00000262139.10	WIP1	ENSG000000070540	WD repeat domain, phosphoinositide interacting 1 Source HGNC Symbol Acc HGNC 25471
H01	UPFH1132936	ENST00000646664.1	ACTB	ENSG000000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	UPFH1132937	ENST00000544417.5	B2M	ENSG000000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	UPFH1132938	ENST00000229239.10	GAPDH	ENSG000000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	UPFH1132939	ENST00000298556.8	HPRT1	ENSG000000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	UPFH1132941	ENST00000392514.9	RPLP0	ENSG000000089157	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.

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