

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

Human MYC Targets

Cat. no. 249955 UPHS-177ZR

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	AIMP2	APEX1	ATF4	BAX	BCAT1	CAD	CBX3	CCNB1	CCND2	CCT5	CDC25A	CDK4
B	CDKN1B	CDKN2B	CHEK1	CKS2	YBX3	CSDE1	CSTB	CTSC	DDX10	DDX39B	DKC1	E2F1
C	EIF4A1	EIF4B	EIF4E	ENO1	EXOSC8	FASN	GCLC	GNL3	HK2	HNRNPA1	HNRNPA2B1	ID3
D	ILK	ITGB1	LTA4H	MAT2A	MAX	MAZ	MGST1	MSH2	MTHFD1	MYC	MYCL	MYCN
E	NAP1L1	NBN	NCL	NME1	NOLC1	NPM1	ODC1	PA2G4	PAICS	PCNA	PDK1	PHB
F	PIAS2	POLD2	PPAT	PTPA	PSMG1	PTEN	PYCR1	RPL13	RPL19	RPL23	RPL27A	RPL5
G	RPS5	SHMT1	SNRPB	SRM	SRSF1	TERT	TOP1	TP53	TP1	TYMS	UBE2C	ZFP36L1
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	UPFH0446248	ENST00000223029.8	AIMP2	ENSG00000106305	aminoacyl tRNA synthetase complex interacting multifunctional protein 2 Source HGNC Symbol Acc HGNC 20609
A02	UPFH0321059	ENST00000555414.5	APEX1	ENSG00000100823	apurinic/apyrimidinic endodeoxyribonuclease 1 Source HGNC Symbol Acc HGNC 587
A03	UPFH1132244	ENST00000404241.6	ATF4	ENSG00000128272	activating transcription factor 4 Source HGNC Symbol Acc HGNC 786
A04	UPFH0540159	ENST00000293288.12	BAX	ENSG00000087088	BCL2 associated X, apoptosis regulator Source HGNC Symbol Acc HGNC 959
A05	UPFH0326083	ENST00000544418.1	BCAT1	ENSG00000060982	branched chain amino acid transaminase 1 Source HGNC Symbol Acc HGNC 976
A06	UPFH0323565	ENST00000403525.5	CAD	ENSG00000084774	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase Source HGNC Symbol Acc HGNC 1424
A07	UPFH0299210	ENST00000337620.8	CBX3	ENSG00000122565	chromobox 3 Source HGNC Symbol Acc HGNC 1553
A08	UPFH1132293	ENST00000505500.5	CCNB1	ENSG00000134057	cyclin B1 Source HGNC Symbol Acc HGNC 1579
A09	UPFH1132296	ENST00000261254.8	CCND2	ENSG00000118971	cyclin D2 Source HGNC Symbol Acc HGNC 1583
A10	UPFH0226819	ENST00000506600.1	CCT5	ENSG00000150753	chaperonin containing TCP1 subunit 5 Source HGNC Symbol Acc HGNC 1618
A11	UPFH0432792	ENST00000302506.7	CDC25A	ENSG00000164045	cell division cycle 25A Source HGNC Symbol Acc HGNC 1725
A12	UPFH0291148	ENST00000549606.5	CDK4	ENSG00000135446	cyclin dependent kinase 4 Source HGNC Symbol Acc HGNC 1773
B01	UPFH1132964	ENST00000228872.9	CDKN1B	ENSG00000111276	cyclin dependent kinase inhibitor 1B Source HGNC Symbol Acc HGNC 1785
B02	UPFH0150846	ENST00000579591.1	CDKN2B	ENSG00000147883	cyclin dependent kinase inhibitor 2B Source HGNC Symbol Acc HGNC 1788
B03	UPFH1132313	ENST00000427383.6	CHEK1	ENSG00000149554	checkpoint kinase 1 Source HGNC Symbol Acc HGNC 1925
B04	UPFH1132318	ENST00000314355.7	CKS2	ENSG00000123975	CDC28 protein kinase regulatory subunit 2 Source HGNC Symbol Acc HGNC 2000
B05	UPFH0172278	ENST00000279550.11	YBX3	ENSG00000060138	Y-box binding protein 3 Source HGNC Symbol Acc HGNC 2428
B06	UPFH0560848	ENST00000483030.1	CSDE1	ENSG00000009307	cold shock domain containing E1 Source HGNC Symbol Acc HGNC 29905
B07	UPFH0495065	ENST00000639959.1	CSTB	ENSG00000160213	cystatin B Source HGNC Symbol Acc HGNC 2482
B08	UPFH0602934	ENST00000227266.10	CTSC	ENSG00000109861	cathepsin C Source HGNC Symbol Acc HGNC 2528
B09	UPFH0083430	ENST00000648124.1	DDX10	ENSG00000178105	DEAD-box helicase 10 Source HGNC Symbol Acc HGNC 2735
B10	UPFH0422528	ENST00000482195.5	DDX39B	ENSG00000198563	DEXD-box helicase 39B Source HGNC Symbol Acc HGNC 13917
B11	UPFH0521239	ENST00000481062.1	DKC1	ENSG00000130826	dyskerin pseudouridine synthase 1 Source HGNC Symbol Acc HGNC 2890
B12	UPFH1132375	ENST00000343380.6	E2F1	ENSG00000101412	E2F transcription factor 1 Source HGNC Symbol Acc HGNC 3113
C01	UPFH0275912	ENST00000584860.5	EIF4A1	ENSG00000161960	eukaryotic translation initiation factor 4A1 Source HGNC Symbol Acc HGNC 3282
C02	UPFH0228907	ENST00000550025.1	EIF4B	ENSG00000063046	eukaryotic translation initiation factor 4B Source HGNC Symbol Acc HGNC 3285
C03	UPFH0008084	ENST00000515638.5	EIF4E	ENSG00000151247	eukaryotic translation initiation factor 4E Source HGNC Symbol Acc HGNC 3287
C04	UPFH0404044	ENST00000234590.10	ENO1	ENSG00000074800	enolase 1 Source HGNC Symbol Acc HGNC 3350
C05	UPFH0603467	ENST00000239893.9	EXOSC8	ENSG00000120699	exosome component 8 Source HGNC Symbol Acc HGNC 17035
C06	UPFH0422393	ENST00000635197.1	FASN	ENSG00000169710	fatty acid synthase Source HGNC Symbol Acc HGNC 3594
C07	UPFH0516671	ENST00000229416.10	GCLC	ENSG00000001084	glutamate-cysteine ligase catalytic subunit Source HGNC Symbol Acc HGNC 4311
C08	UPFH0438424	ENST00000460073.1	GNL3	ENSG00000163938	G protein nucleolar 3 Source HGNC Symbol Acc HGNC 29931
C09	UPFH1132910	ENST00000409174.1	HK2	ENSG00000159399	hexokinase 2 Source HGNC Symbol Acc HGNC 4923
C10	UPFH0147787	ENST00000547276.5	HNRNPA1	ENSG00000135486	heterogeneous nuclear ribonucleoprotein A1 Source HGNC Symbol Acc HGNC 5031
		ENST00000618	HNRNPA2B	ENSG000000	heterogeneous nuclear ribonucleoprotein A2/B1 Source HGNC Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0590875	183.4	1	122566	HGNC 5033
C12	UPFH0056186	ENST00000374561.6	ID3	ENSG00000117318	inhibitor of DNA binding 3, HLH protein Source HGNC Symbol Acc HGNC 5362
D01	UPFH0412404	ENST00000299421.8	ILK	ENSG00000166333	integrin linked kinase Source HGNC Symbol Acc HGNC 6040
D02	UPFH1132498	ENST00000423113.5	ITGB1	ENSG00000150093	integrin subunit beta 1 Source HGNC Symbol Acc HGNC 6153
D03	UPFH0419297	ENST00000548375.5	LTA4H	ENSG00000111144	leukotriene A4 hydrolase Source HGNC Symbol Acc HGNC 6710
D04	UPFH0143761	ENST00000306434.8	MAT2A	ENSG00000168906	methionine adenosyltransferase 2A Source HGNC Symbol Acc HGNC 6904
D05	UPFH0191124	ENST00000556443.5	MAX	ENSG00000125952	MYC associated factor X Source HGNC Symbol Acc HGNC 6913
D06	UPFH0414543	ENST00000322945.11	MAZ	ENSG00000103495	MYC associated zinc finger protein Source HGNC Symbol Acc HGNC 6914
D07	UPFH0176450	ENST00000535309.5	MGST1	ENSG00000008394	microsomal glutathione S-transferase 1 Source HGNC Symbol Acc HGNC 7061
D08	UPFH0051784	ENST00000233146.6	MSH2	ENSG00000095002	mutS homolog 2 Source HGNC Symbol Acc HGNC 7325
D09	UPFH0477562	ENST00000555709.7	MTHFD1	ENSG00000100714	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 Source HGNC Symbol Acc HGNC 7432
D10	UPFH1132563	ENST00000517291.1	MYC	ENSG00000136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
D11	UPFH0370678	ENST00000397332.2	MYCL	ENSG00000116990	MYCL proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7555
D12	UPFH0096659	ENST00000281043.4	MYCN	ENSG00000134323	MYCN proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7559
E01	UPFH0106560	ENST00000552056.5	NAP1L1	ENSG00000187109	nucleosome assembly protein 1 like 1 Source HGNC Symbol Acc HGNC 7637
E02	UPFH0612261	ENST00000265433.7	NBN	ENSG00000104320	nibrin Source HGNC Symbol Acc HGNC 7652
E03	UPFH0419360	ENST00000454824.5	NCL	ENSG00000115053	nucleolin Source HGNC Symbol Acc HGNC 7667
E04	UPFH0432508	ENST00000336097.7	NME1	ENSG00000239672	NME/NM23 nucleoside diphosphate kinase 1 Source HGNC Symbol Acc HGNC 7849
E05	UPFH0570492	ENST00000405356.5	NOLC1	ENSG00000166197	nucleolar and coiled-body phosphoprotein 1 Source HGNC Symbol Acc HGNC 15608
E06	UPFH0360898	ENST00000296930.9	NPM1	ENSG00000181163	nucleophosmin 1 Source HGNC Symbol Acc HGNC 7910
E07	UPFH0581844	ENST00000405333.5	ODC1	ENSG00000115758	ornithine decarboxylase 1 Source HGNC Symbol Acc HGNC 8109
E08	UPFH0156165	ENST00000550166.1	PA2G4	ENSG00000170515	proliferation-associated 2G4 Source HGNC Symbol Acc HGNC 8550
E09	UPFH0245018	ENST00000504188.1	PAICS	ENSG00000128050	phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesuccinocarboxamide synthase Source HGNC Symbol Acc HGNC 8587
E10	UPFH1132607	ENST00000379160.3	PCNA	ENSG00000132646	proliferating cell nuclear antigen Source HGNC Symbol Acc HGNC 8729
E11	UPFH0435270	ENST00000410055.5	PDK1	ENSG00000152256	pyruvate dehydrogenase kinase 1 Source HGNC Symbol Acc HGNC 8809
E12	UPFH0113859	ENST00000393345.8	PHB	ENSG00000167085	prohibitin Source HGNC Symbol Acc HGNC 8912
F01	UPFH0400451	ENST00000545673.5	PIAS2	ENSG00000078043	protein inhibitor of activated STAT 2 Source HGNC Symbol Acc HGNC 17311
F02	UPFH0463543	ENST00000433715.5	POLD2	ENSG00000106628	DNA polymerase delta 2, accessory subunit Source HGNC Symbol Acc HGNC 9176
F03	UPFH0418342	ENST00000510643.5	PPAT	ENSG00000128059	phosphoribosyl pyrophosphate amidotransferase Source HGNC Symbol Acc HGNC 9238
F04	UPFH0273368	ENST00000419582.5	PTPA	ENSG00000119383	protein phosphatase 2 phosphatase activator Source HGNC Symbol Acc HGNC 9308
F05	UPFH0443548	ENST00000431628.1	PSMG1	ENSG00000183527	proteasome assembly chaperone 1 Source HGNC Symbol Acc HGNC 3043
F06	UPFH1132982	ENST00000371953.8	PTEN	ENSG00000171862	phosphatase and tensin homolog Source HGNC Symbol Acc HGNC 9588
F07	UPFH0558014	ENST00000584848.5	PYCR1	ENSG00000183010	pyrroline-5-carboxylate reductase 1 Source HGNC Symbol Acc HGNC 9721
F08	UPFH0342992	ENST00000452368.7	RPL13	ENSG00000167526	ribosomal protein L13 Source HGNC Symbol Acc HGNC 10303
F09	UPFH0568121	ENST00000225430.9	RPL19	ENSG00000108298	ribosomal protein L19 Source HGNC Symbol Acc HGNC 10312
F10	UPFH0081680	ENST00000394	RPL23	ENSG000000	ribosomal protein L23 Source HGNC Symbol Acc HGNC 10316

Position	Assay	Name	Symbol	Ensembl ID	Description
		333.5		125691	
F11	UPFH0040605	ENST00000531102.1	RPL27A	ENSG00000166441	ribosomal protein L27a Source HGNC Symbol Acc HGNC 10329
F12	UPFH0403243	ENST00000644759.1	RPL5	ENSG00000122406	ribosomal protein L5 Source HGNC Symbol Acc HGNC 10360
G01	UPFH0351219	ENST00000598098.5	RPS5	ENSG00000083845	ribosomal protein S5 Source HGNC Symbol Acc HGNC 10426
G02	UPFH0114891	ENST00000354098.7	SHMT1	ENSG00000176974	serine hydroxymethyltransferase 1 Source HGNC Symbol Acc HGNC 10850
G03	UPFH0473572	ENST00000438552.6	SNRPB	ENSG00000125835	small nuclear ribonucleoprotein polypeptides B and B1 Source HGNC Symbol Acc HGNC 11153
G04	UPFH0224725	ENST00000459997.1	SRM	ENSG00000116649	spermidine synthase Source HGNC Symbol Acc HGNC 11296
G05	UPFH0101624	ENST00000581979.5	SRSF1	ENSG00000136450	serine and arginine rich splicing factor 1 Source HGNC Symbol Acc HGNC 10780
G06	UPFH0248987	ENST00000310581.9	TERT	ENSG00000164362	telomerase reverse transcriptase Source HGNC Symbol Acc HGNC 11730
G07	UPFH0053847	ENST00000361337.3	TOP1	ENSG00000198900	DNA topoisomerase I Source HGNC Symbol Acc HGNC 11986
G08	UPFH0565795	ENST00000269305.8	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G09	UPFH1132737	ENST00000229270.8	TPI1	ENSG00000111669	triosephosphate isomerase 1 Source HGNC Symbol Acc HGNC 12009
G10	UPFH0415914	ENST00000581920.1	TYMS	ENSG00000176890	thymidylate synthetase Source HGNC Symbol Acc HGNC 12441
G11	UPFH0065253	ENST00000405520.5	UBE2C	ENSG00000175063	ubiquitin conjugating enzyme E2 C Source HGNC Symbol Acc HGNC 15937
G12	UPFH0468316	ENST00000553375.1	ZFP36L1	ENSG00000185650	ZFP36 ring finger protein like 1 Source HGNC Symbol Acc HGNC 1107
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.

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