

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

Human Lung Cancer

Cat. no. 249955 UPHS-134ZR

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	AGER	AGR2	AKT1	ANXA5	APBA1	APC	BCL2	BIRC5	BRAF	CA4	CADM1	CDH1
B	CDH13	CDKN1C	CDKN2A	CDKN2B	CEACAM5	CEACAM6	CLCA2	CLDN18	CLIC5	COL11A1	CP	CSF3
C	CXCL12	CXCL13	CYP1B1	DLC1	DSG3	DUSP6	EGFR	ERBB2	ERBB3	FABP4	FHIT	GPM6A
D	GREM1	HGF	HMMR	HRAS	IRF4	KRAS	KRT14	KRT5	LCK	LGSN	MET	MGMT
E	MKI67	MLH1	MMD	MMP1	MMP12	MMP9	MTHFR	NF1	NFKB1	NKX2-1	OPCML	PAX5
F	PRDM2	PTGS2	RASSF1	RASSF2	RB1	SCGB1A1	SFRP1	SFTA3	SFTPC	SOSTDC1	SPINK1	SPP1
G	SPRR1A	STAT1	STAT2	TCF21	TERT	TGFB1	TNF	TOP2A	TOX3	TP53	VEGFA	WIF1
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	UPFH0518278	ENST00000473619.5	AGER	ENSG00000204305	advanced glycosylation end-product specific receptor Source HGNC Symbol Acc HGNC 320
A02	UPFH0502442	ENST00000450569.5	AGR2	ENSG00000106541	anterior gradient 2, protein disulphide isomerase family member Source HGNC Symbol Acc HGNC 328
A03	UPFH0453992	ENST00000555528.5	AKT1	ENSG00000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A04	UPFH1132775	ENST00000515017.5	ANXA5	ENSG00000164111	annexin A5 Source HGNC Symbol Acc HGNC 543
A05	UPFH0089257	ENST00000470082.2	APBA1	ENSG00000107282	amyloid beta precursor protein binding family A member 1 Source HGNC Symbol Acc HGNC 578
A06	UPFH1132236	ENST00000257430.9	APC	ENSG00000134982	APC, WNT signaling pathway regulator Source HGNC Symbol Acc HGNC 583
A07	UPFH1132900	ENST00000333681.5	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A08	UPFH1132779	ENST00000301633.8	BIRC5	ENSG00000089685	baculoviral IAP repeat containing 5 Source HGNC Symbol Acc HGNC 593
A09	UPFH0559252	ENST00000646891.1	BRAF	ENSG00000157764	B-Raf proto-oncogene, serine/threonine kinase Source HGNC Symbol Acc HGNC 1097
A10	UPFH0014939	ENST00000591725.1	CA4	ENSG00000167434	carbonic anhydrase 4 Source HGNC Symbol Acc HGNC 1375
A11	UPFH0428030	ENST00000537058.5	CADM1	ENSG00000182985	cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 5951
A12	UPFH1132791	ENST00000261769.10	CDH1	ENSG00000039068	cadherin 1 Source HGNC Symbol Acc HGNC 1748
B01	UPFH0210939	ENST00000428848.7	CDH13	ENSG00000140945	cadherin 13 Source HGNC Symbol Acc HGNC 1753
B02	UPFH0327918	ENST00000440480.7	CDKN1C	ENSG00000129757	cyclin dependent kinase inhibitor 1C Source HGNC Symbol Acc HGNC 1786
B03	UPFH0246593	ENST00000494262.5	CDKN2A	ENSG00000147889	cyclin dependent kinase inhibitor 2A Source HGNC Symbol Acc HGNC 1787
B04	UPFH0150846	ENST00000579591.1	CDKN2B	ENSG00000147883	cyclin dependent kinase inhibitor 2B Source HGNC Symbol Acc HGNC 1788
B05	UPFH0420475	ENST00000615021.4	CEACAM5	ENSG00000105388	carcinoembryonic antigen related cell adhesion molecule 5 Source HGNC Symbol Acc HGNC 1817
B06	UPFH0004430	ENST00000199764.7	CEACAM6	ENSG00000086548	carcinoembryonic antigen related cell adhesion molecule 6 Source HGNC Symbol Acc HGNC 1818
B07	UPFH0221592	ENST00000498802.1	CLCA2	ENSG00000137975	chloride channel accessory 2 Source HGNC Symbol Acc HGNC 2016
B08	UPFH0044848	ENST00000343735.8	CLDN18	ENSG00000066405	claudin 18 Source HGNC Symbol Acc HGNC 2039
B09	UPFH0275659	ENST00000644324.1	CLIC5	ENSG00000112782	chloride intracellular channel 5 Source HGNC Symbol Acc HGNC 13517
B10	UPFH0124039	ENST00000427239.5	COL11A1	ENSG00000060718	collagen type XI alpha 1 chain Source HGNC Symbol Acc HGNC 2186
B11	UPFH0249899	ENST00000264613.11	CP	ENSG00000047457	ceruloplasmin Source HGNC Symbol Acc HGNC 2295
B12	UPFH1132794	ENST00000225474.6	CSF3	ENSG00000108342	colony stimulating factor 3 Source HGNC Symbol Acc HGNC 2438
C01	UPFH0092551	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
C02	UPFH1132796	ENST00000286758.4	CXCL13	ENSG00000156234	C-X-C motif chemokine ligand 13 Source HGNC Symbol Acc HGNC 10639
C03	UPFH0402095	ENST00000491456.1	CYP1B1	ENSG00000138061	cytochrome P450 family 1 subfamily B member 1 Source HGNC Symbol Acc HGNC 2597
C04	UPFH0418198	ENST00000521730.1	DLC1	ENSG00000164741	DLC1 Rho GTPase activating protein Source HGNC Symbol Acc HGNC 2897
C05	UPFH0310199	ENST00000257189.5	DSG3	ENSG00000134757	desmoglein 3 Source HGNC Symbol Acc HGNC 3050
C06	UPFH0610812	ENST00000547291.1	DUSP6	ENSG00000139318	dual specificity phosphatase 6 Source HGNC Symbol Acc HGNC 3072
C07	UPFH1132381	ENST00000420316.6	EGFR	ENSG00000146648	epidermal growth factor receptor Source HGNC Symbol Acc HGNC 3236
C08	UPFH1132388	ENST00000541774.5	ERBB2	ENSG00000141736	erb-b2 receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 3430
C09	UPFH0049356	ENST00000267101.7	ERBB3	ENSG00000065361	erb-b2 receptor tyrosine kinase 3 Source HGNC Symbol Acc HGNC 3431
C10	UPFH0038464	ENST00000256104.4	FABP4	ENSG00000170323	fatty acid binding protein 4 Source HGNC Symbol Acc HGNC 3559
		ENST00000468		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0443291	189.5	FHIT	189283	fragile histidine triad Source HGNC Symbol Acc HGNC 3701
C12	UPFH0271206	ENST00000280 187.11	GPM6A	ENSG00000 150625	glycoprotein M6A Source HGNC Symbol Acc HGNC 4460
D01	UPFH1172908	ENST00000652 365.1	GREM1	ENSG00000 166923	gremlin 1, DAN family BMP antagonist Source HGNC Symbol Acc HGNC 2001
D02	UPFH1132871	ENST00000643 024.1	HGF	ENSG00000 019991	hepatocyte growth factor Source HGNC Symbol Acc HGNC 4893
D03	UPFH0440717	ENST00000393 915.9	HMMR	ENSG00000 072571	hyaluronan mediated motility receptor Source HGNC Symbol Acc HGNC 5012
D04	UPFH1132981	ENST00000311 189.8	HRAS	ENSG00000 174775	HRas proto-oncogene, GTPase Source HGNC Symbol Acc HGNC 5173
D05	UPFH0051290	ENST00000380 956.9	IRF4	ENSG00000 137265	interferon regulatory factor 4 Source HGNC Symbol Acc HGNC 6119
D06	UPFH0376060	ENST00000557 334.5	KRAS	ENSG00000 133703	KRAS proto-oncogene, GTPase Source HGNC Symbol Acc HGNC 6407
D07	UPFH1132514	ENST00000167 586.7	KRT14	ENSG00000 186847	keratin 14 Source HGNC Symbol Acc HGNC 6416
D08	UPFH0589368	ENST00000548 409.5	KRT5	ENSG00000 186081	keratin 5 Source HGNC Symbol Acc HGNC 6442
D09	UPFH0186084	ENST00000619 559.4	LCK	ENSG00000 182866	LCK proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 6524
D10	UPFH0477747	ENST00000370 657.8	LGSN	ENSG00000 146166	lengsin, lens protein with glutamine synthetase domain Source HGNC Symbol Acc HGNC 21016
D11	UPFH1132915	ENST00000436 117.2	MET	ENSG00000 105976	MET proto-oncogene, receptor tyrosine kinase Source HGNC Symbol Acc HGNC 7029
D12	UPFH0403444	ENST00000306 010.8	MGMT	ENSG00000 170430	O-6-methylguanine-DNA methyltransferase Source HGNC Symbol Acc HGNC 7059
E01	UPFH1132549	ENST00000368 653.7	MKI67	ENSG00000 148773	marker of proliferation Ki-67 Source HGNC Symbol Acc HGNC 7107
E02	UPFH0346001	ENST00000231 790.6	MLH1	ENSG00000 076242	mutL homolog 1 Source HGNC Symbol Acc HGNC 7127
E03	UPFH0007427	ENST00000571 578.1	MMD	ENSG00000 108960	monocyte to macrophage differentiation associated Source HGNC Symbol Acc HGNC 7153
E04	UPFH0322484	ENST00000315 274.7	MMP1	ENSG00000 196611	matrix metalloproteinase 1 Source HGNC Symbol Acc HGNC 7155
E05	UPFH0128336	ENST00000571 244.2	MMP12	ENSG00000 262406	matrix metalloproteinase 12 Source HGNC Symbol Acc HGNC 7158
E06	UPFH0367626	ENST00000372 330.3	MMP9	ENSG00000 100985	matrix metalloproteinase 9 Source HGNC Symbol Acc HGNC 7176
E07	UPFH0541642	ENST00000641 407.1	MTHFR	ENSG00000 177000	methylenetetrahydrofolate reductase Source HGNC Symbol Acc HGNC 7436
E08	UPFH0158363	ENST00000431 387.8	NF1	ENSG00000 196712	neurofibromin 1 Source HGNC Symbol Acc HGNC 7765
E09	UPFH1132828	ENST00000226 574.9	NFKB1	ENSG00000 109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
E10	UPFH0080778	ENST00000522 719.2	NKX2-1	ENSG00000 136352	NK2 homeobox 1 Source HGNC Symbol Acc HGNC 11825
E11	UPFH0099438	ENST00000541 867.5	OPCML	ENSG00000 183715	opioid binding protein/cell adhesion molecule like Source HGNC Symbol Acc HGNC 8143
E12	UPFH0136572	ENST00000522 003.5	PAX5	ENSG00000 196092	paired box 5 Source HGNC Symbol Acc HGNC 8619
F01	UPFH0283157	ENST00000491 815.1	PRDM2	ENSG00000 116731	PR/SET domain 2 Source HGNC Symbol Acc HGNC 9347
F02	UPFH1132642	ENST00000367 468.10	PTGS2	ENSG00000 073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
F03	UPFH0117232	ENST00000616 212.4	RASSF1	ENSG00000 068028	Ras association domain family member 1 Source HGNC Symbol Acc HGNC 9882
F04	UPFH0499489	ENST00000478 553.1	RASSF2	ENSG00000 101265	Ras association domain family member 2 Source HGNC Symbol Acc HGNC 9883
F05	UPFH0001483	ENST00000267 163.5	RB1	ENSG00000 139687	RB transcriptional corepressor 1 Source HGNC Symbol Acc HGNC 9884
F06	UPFH0092606	ENST00000534 397.5	SCGB1A1	ENSG00000 149021	secretoglobin family 1A member 1 Source HGNC Symbol Acc HGNC 12523
F07	UPFH1132676	ENST00000220 772.8	SFRP1	ENSG00000 104332	secreted frizzled related protein 1 Source HGNC Symbol Acc HGNC 10776
F08	UPFH0378956	ENST00000418 548.3	SFTA3	ENSG00000 229415	surfactant associated 3 Source HGNC Symbol Acc HGNC 18387
F09	UPFH0207752	ENST00000524 255.5	SFTPC	ENSG00000 168484	surfactant protein C Source HGNC Symbol Acc HGNC 10802
F10	UPFH0487238	ENST00000307 068.5	SOSTDC1	ENSG00000 171243	sclerostin domain containing 1 Source HGNC Symbol Acc HGNC 21748

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0370491	ENST00000296695.9	SPINK1	ENSG00000164266	serine peptidase inhibitor, Kazal type 1 Source HGNC Symbol Acc HGNC 11244
F12	UPFH0044238	ENST00000237623.11	SPP1	ENSG00000118785	secreted phosphoprotein 1 Source HGNC Symbol Acc HGNC 11255
G01	UPFH1134938	ENST00000368762.1	SPRR1A	ENSG00000169474	small proline rich protein 1A Source HGNC Symbol Acc HGNC 11259
G02	UPFH1132696	ENST00000392323.6	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G03	UPFH0338707	ENST00000652741.1	STAT2	ENSG00000170581	signal transducer and activator of transcription 2 Source HGNC Symbol Acc HGNC 11363
G04	UPFH0610475	ENST00000237316.3	TCF21	ENSG00000118526	transcription factor 21 Source HGNC Symbol Acc HGNC 11632
G05	UPFH0248987	ENST00000310581.9	TERT	ENSG00000164362	telomerase reverse transcriptase Source HGNC Symbol Acc HGNC 11730
G06	UPFH0193430	ENST00000221930.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G07	UPFH1132978	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G08	UPFH0203229	ENST00000578412.1	TOP2A	ENSG00000131747	DNA topoisomerase II alpha Source HGNC Symbol Acc HGNC 11989
G09	UPFH0367795	ENST00000407228.7	TOX3	ENSG00000103460	TOX high mobility group box family member 3 Source HGNC Symbol Acc HGNC 11972
G10	UPFH0565795	ENST00000269305.8	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G11	UPFH0281656	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
G12	UPFH1132759	ENST00000286574.9	WIF1	ENSG00000156076	WNT inhibitory factor 1 Source HGNC Symbol Acc HGNC 18081
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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