

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

Human Lung Cancer

Cat. no. 249950 SBHS-134ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA 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 PCR System Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	AGER	AGR2	AKT1	ANKA5	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	NIK2-1	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 PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0185255	ENST00000488669.5	AGER	ENSG00000204305	advanced glycosylation end-product specific receptor Source HGNC Symbol Acc HGNC 320
A02	SBH0580027	ENST00000412973.1	AGR2	ENSG00000106541	anterior gradient 2, protein disulphide isomerase family member Source HGNC Symbol Acc HGNC 328
A03	SBH0095396	ENST00000555528.5	AKT1	ENSG00000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A04	SBH1219743	ENST00000501272.6	ANXA5	ENSG00000164111	annexin A5 Source HGNC Symbol Acc HGNC 543
A05	SBH0091087	ENST00000470082.2	APBA1	ENSG00000107282	amyloid beta precursor protein binding family A member 1 Source HGNC Symbol Acc HGNC 578
A06	SBH1219746	ENST00000512211.6	APC	ENSG00000134982	APC, WNT signaling pathway regulator Source HGNC Symbol Acc HGNC 583
A07	SBH1219786	ENST00000398117.1	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A08	SBH1219797	ENST00000301633.8	BIRC5	ENSG00000089685	baculoviral IAP repeat containing 5 Source HGNC Symbol Acc HGNC 593
A09	SBH1219813	ENST00000288602.11	BRAF	ENSG00000157764	B-Raf proto-oncogene, serine/threonine kinase Source HGNC Symbol Acc HGNC 1097
A10	SBH0276189	ENST00000591725.1	CA4	ENSG00000167434	carbonic anhydrase 4 Source HGNC Symbol Acc HGNC 1375
A11	SBH0022553	ENST00000537058.5	CADM1	ENSG00000182985	cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 5951
A12	SBH1219869	ENST00000261769.10	CDH1	ENSG00000039068	cadherin 1 Source HGNC Symbol Acc HGNC 1748
B01	SBH0542083	ENST00000268613.14	CDH13	ENSG00000140945	cadherin 13 Source HGNC Symbol Acc HGNC 1753
B02	SBH0517353	ENST00000440480.7	CDKN1C	ENSG00000129757	cyclin dependent kinase inhibitor 1C Source HGNC Symbol Acc HGNC 1786
B03	SBH0349548	ENST00000304494.9	CDKN2A	ENSG00000147889	cyclin dependent kinase inhibitor 2A Source HGNC Symbol Acc HGNC 1787
B04	SBH1219880	ENST00000276925.7	CDKN2B	ENSG00000147883	cyclin dependent kinase inhibitor 2B Source HGNC Symbol Acc HGNC 1788
B05	SBH0294745	ENST00000221992.10	CEACAM5	ENSG00000105388	carcinoembryonic antigen related cell adhesion molecule 5 Source HGNC Symbol Acc HGNC 1817
B06	SBH0637185	ENST00000199764.7	CEACAM6	ENSG00000086548	carcinoembryonic antigen related cell adhesion molecule 6 Source HGNC Symbol Acc HGNC 1818
B07	SBH0005195	ENST00000490884.1	CLCA2	ENSG00000137975	chloride channel accessory 2 Source HGNC Symbol Acc HGNC 2016
B08	SBH0396777	ENST00000479660.1	CLDN18	ENSG00000066405	claudin 18 Source HGNC Symbol Acc HGNC 2039
B09	SBH0400498	ENST00000339561.11	CLIC5	ENSG00000112782	chloride intracellular channel 5 Source HGNC Symbol Acc HGNC 13517
B10	SBH0251687	ENST00000358392.6	COL11A1	ENSG00000060718	collagen type XI alpha 1 chain Source HGNC Symbol Acc HGNC 2186
B11	SBH0489778	ENST00000494544.1	CP	ENSG00000047457	ceruloplasmin Source HGNC Symbol Acc HGNC 2295
B12	SBH0378721	ENST00000225474.6	CSF3	ENSG00000108342	colony stimulating factor 3 Source HGNC Symbol Acc HGNC 2438
C01	SBH0010818	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
C02	SBH0479528	ENST00000286758.4	CXCL13	ENSG00000156234	C-X-C motif chemokine ligand 13 Source HGNC Symbol Acc HGNC 10639
C03	SBH0230648	ENST00000494864.1	CYP1B1	ENSG00000138061	cytochrome P450 family 1 subfamily B member 1 Source HGNC Symbol Acc HGNC 2597
C04	SBH0650766	ENST00000510318.5	DLC1	ENSG00000164741	DLC1 Rho GTPase activating protein Source HGNC Symbol Acc HGNC 2897
C05	SBH0175712	ENST00000257189.5	DSG3	ENSG00000134757	desmoglein 3 Source HGNC Symbol Acc HGNC 3050
C06	SBH0100832	ENST00000547140.1	DUSP6	ENSG00000139318	dual specificity phosphatase 6 Source HGNC Symbol Acc HGNC 3072
C07	SBH1219970	ENST00000454757.6	EGFR	ENSG00000146648	epidermal growth factor receptor Source HGNC Symbol Acc HGNC 3236
C08	SBH0056013	ENST00000269571.9	ERBB2	ENSG00000141736	erb-b2 receptor tyrosine kinase 2 Source HGNC Symbol Acc HGNC 3430
C09	SBH1219981	ENST00000549832.1	ERBB3	ENSG00000065361	erb-b2 receptor tyrosine kinase 3 Source HGNC Symbol Acc HGNC 3431
C10	SBH0327090	ENST00000521734.1	FABP4	ENSG00000170323	fatty acid binding protein 4 Source HGNC Symbol Acc HGNC 3559
		ENST00000492		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0626536	590.6	FHIT	189283	fragile histidine triad Source HGNC Symbol Acc HGNC 3701
C12	SBH0357133	ENST00000505561.5	GPM6A	ENSG00000150625	glycoprotein M6A Source HGNC Symbol Acc HGNC 4460
D01	SBH1220039	ENST00000651154.1	GREM1	ENSG00000166923	gremlin 1, DAN family BMP antagonist Source HGNC Symbol Acc HGNC 2001
D02	SBH1220058	ENST00000457544.7	HGF	ENSG00000019991	hepatocyte growth factor Source HGNC Symbol Acc HGNC 4893
D03	SBH0073736	ENST00000358715.3	HMMR	ENSG00000072571	hyaluronan mediated motility receptor Source HGNC Symbol Acc HGNC 5012
D04	SBH0257285	ENST00000493230.5	HRAS	ENSG00000174775	HRas proto-oncogene, GTPase Source HGNC Symbol Acc HGNC 5173
D05	SBH0409342	ENST00000380956.9	IRF4	ENSG00000137265	interferon regulatory factor 4 Source HGNC Symbol Acc HGNC 6119
D06	SBH0300474	ENST00000556131.1	KRAS	ENSG00000133703	KRAS proto-oncogene, GTPase Source HGNC Symbol Acc HGNC 6407
D07	SBH1220158	ENST00000167586.7	KRT14	ENSG00000186847	keratin 14 Source HGNC Symbol Acc HGNC 6416
D08	SBH0505202	ENST00000549511.5	KRT5	ENSG00000186081	keratin 5 Source HGNC Symbol Acc HGNC 6442
D09	SBH0532833	ENST00000495610.6	LCK	ENSG00000182866	LCK proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 6524
D10	SBH0001872	ENST00000370658.9	LGSN	ENSG00000146166	lengsin, lens protein with glutamine synthetase domain Source HGNC Symbol Acc HGNC 21016
D11	SBH1220210	ENST00000318493.11	MET	ENSG00000105976	MET proto-oncogene, receptor tyrosine kinase Source HGNC Symbol Acc HGNC 7029
D12	SBH0587302	ENST00000306010.8	MGMT	ENSG00000170430	O-6-methylguanine-DNA methyltransferase Source HGNC Symbol Acc HGNC 7059
E01	SBH1220213	ENST00000368654.8	MKI67	ENSG00000148773	marker of proliferation Ki-67 Source HGNC Symbol Acc HGNC 7107
E02	SBH0236577	ENST00000231790.6	MLH1	ENSG00000076242	mutL homolog 1 Source HGNC Symbol Acc HGNC 7127
E03	SBH0588296	ENST00000649377.1	MMD	ENSG00000108960	monocyte to macrophage differentiation associated Source HGNC Symbol Acc HGNC 7153
E04	SBH1220215	ENST00000315274.7	MMP1	ENSG00000196611	matrix metalloproteinase 1 Source HGNC Symbol Acc HGNC 7155
E05	SBH0337769	ENST00000571244.2	MMP12	ENSG00000262406	matrix metalloproteinase 12 Source HGNC Symbol Acc HGNC 7158
E06	SBH0471278	ENST00000372330.3	MMP9	ENSG00000100985	matrix metalloproteinase 9 Source HGNC Symbol Acc HGNC 7176
E07	SBH0375175	ENST00000418034.1	MTHFR	ENSG00000177000	methylenetetrahydrofolate reductase Source HGNC Symbol Acc HGNC 7436
E08	SBH0472829	ENST00000358273.8	NF1	ENSG00000196712	neurofibromin 1 Source HGNC Symbol Acc HGNC 7765
E09	SBH1220264	ENST00000651197.1	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
E10	SBH0031355	ENST00000354822.6	NKX2-1	ENSG00000136352	NK2 homeobox 1 Source HGNC Symbol Acc HGNC 11825
E11	SBH0337414	ENST00000524381.5	OPCML	ENSG00000183715	opioid binding protein/cell adhesion molecule like Source HGNC Symbol Acc HGNC 8143
E12	SBH0623717	ENST00000520281.5	PAX5	ENSG00000196092	paired box 5 Source HGNC Symbol Acc HGNC 8619
F01	SBH0339523	ENST00000491815.1	PRDM2	ENSG00000116731	PR/SET domain 2 Source HGNC Symbol Acc HGNC 9347
F02	SBH1220344	ENST00000367468.10	PTGS2	ENSG00000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605
F03	SBH0462049	ENST00000359365.8	RASSF1	ENSG00000068028	Ras association domain family member 1 Source HGNC Symbol Acc HGNC 9882
F04	SBH0525584	ENST00000379400.8	RASSF2	ENSG00000101265	Ras association domain family member 2 Source HGNC Symbol Acc HGNC 9883
F05	SBH0093533	ENST00000267163.5	RB1	ENSG00000139687	RB transcriptional corepressor 1 Source HGNC Symbol Acc HGNC 9884
F06	SBH0371918	ENST00000278282.3	SCGB1A1	ENSG00000149021	secretoglobin family 1A member 1 Source HGNC Symbol Acc HGNC 12523
F07	SBH1220394	ENST00000220772.8	SFRP1	ENSG00000104332	secreted frizzled related protein 1 Source HGNC Symbol Acc HGNC 10776
F08	SBH0245326	ENST00000518529.6	SFTA3	ENSG00000229415	surfactant associated 3 Source HGNC Symbol Acc HGNC 18387
F09	SBH0463611	ENST00000524255.5	SFTPC	ENSG00000168484	surfactant protein C Source HGNC Symbol Acc HGNC 10802
F10	SBH0391404	ENST00000307068.5	SOSTDC1	ENSG00000171243	sclerostin domain containing 1 Source HGNC Symbol Acc HGNC 21748

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0104091	ENST00000296695.9	SPINK1	ENSG00000164266	serine peptidase inhibitor, Kazal type 1 Source HGNC Symbol Acc HGNC 11244
F12	SBH0180162	ENST00000237623.11	SPP1	ENSG00000118785	secreted phosphoprotein 1 Source HGNC Symbol Acc HGNC 11255
G01	SBH0363700	ENST000003368762.1	SPRR1A	ENSG00000169474	small proline rich protein 1A Source HGNC Symbol Acc HGNC 11259
G02	SBH0333289	ENST000003361099.7	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G03	SBH1220422	ENST000003314128.9	STAT2	ENSG00000170581	signal transducer and activator of transcription 2 Source HGNC Symbol Acc HGNC 11363
G04	SBH0370132	ENST000003367882.4	TCF21	ENSG00000118526	transcription factor 21 Source HGNC Symbol Acc HGNC 11632
G05	SBH0606096	ENST00000334602.10	TERT	ENSG00000164362	telomerase reverse transcriptase Source HGNC Symbol Acc HGNC 11730
G06	SBH1220443	ENST00000598758.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G07	SBH1220471	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G08	SBH0186927	ENST00000578412.1	TOP2A	ENSG00000131747	DNA topoisomerase II alpha Source HGNC Symbol Acc HGNC 11989
G09	SBH0210849	ENST00000407228.7	TOX3	ENSG00000103460	TOX high mobility group box family member 3 Source HGNC Symbol Acc HGNC 11972
G10	SBH1220486	ENST00000445888.6	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G11	SBH0420322	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
G12	SBH1220525	ENST00000286574.9	WIF1	ENSG00000156076	WNT inhibitory factor 1 Source HGNC Symbol Acc HGNC 18081
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	SBH1218553	Sybr_HGDC	HGDC	Sybr_HGDC	Human Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green 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	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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