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

Human Necrosis

Cat. no. 249950 SBHS-141ZA

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 (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	AIFM1	ATP6V1G2	BAX	BID	BIRC3	BMF	BNIP3L	C1orf159	CAPN1	CAPN2	CAPN3	CAPN5
B	CAPN6	CAPN7	CAPNS1	CASP8AP2	CCDC103	CD40	COMMD4	CYBB	CYLD	DEFB1	DENND4A	DPYSL4
C	EDA2R	EIF5B	FADD	FAF1	FAS	FASLG	FEM1B	FOXI1	FUS	GALNT5	GLUD1	GLUL
D	GRB2	HSPBAP1	IKBKG	JPH3	KCNIP1	MADD	MAG	OGA	MYD88	NFKB1	NGF	NGFR
E	BEX3	NOX1	NOX4	OR10J3	PARP1	PARP2	PIDD1	PPIA	PPID	PVR	PYGL	RAB25
F	RIPK1	RIPK2	RIPK3	S100A7A	SLC25A4	SP1	SPATA2	SYCP2	TMEM123	MACO1	TNF	TNFRSF10A
G	TNFRSF14	TNFRSF17	TNFRSF1A	TNFRSF1B	TNFRSF25	TNFRSF4	TNFRSF8	TNFSF10	TNFSF15	TRADD	TRAF2	TXNL4B
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	SBH1219730	ENST00000319908.7	AIFM1	ENSG00000156709	apoptosis inducing factor mitochondria associated 1 Source HGNC Symbol Acc HGNC 8768
A02	SBH0108984	ENST00000483251.1	ATP6V1G2	ENSG00000213760	ATPase H+ transporting V1 subunit G2 Source HGNC Symbol Acc HGNC 862
A03	SBH1219783	ENST00000391871.4	BAX	ENSG00000087088	BCL2 associated X, apoptosis regulator Source HGNC Symbol Acc HGNC 959
A04	SBH0641141	ENST00000622694.4	BID	ENSG00000015475	BH3 interacting domain death agonist Source HGNC Symbol Acc HGNC 1050
A05	SBH1219796	ENST00000263464.8	BIRC3	ENSG00000023445	baculoviral IAP repeat containing 3 Source HGNC Symbol Acc HGNC 591
A06	SBH0106821	ENST00000559701.5	BMF	ENSG00000104081	Bcl2 modifying factor Source HGNC Symbol Acc HGNC 24132
A07	SBH1219811	ENST00000523515.5	BNIP3L	ENSG00000104765	BCL2 interacting protein 3 like Source HGNC Symbol Acc HGNC 1085
A08	SBH0450125	ENST00000379319.5	C1orf159	ENSG00000131591	chromosome 1 open reading frame 159 Source HGNC Symbol Acc HGNC 26062
A09	SBH0247299	ENST00000526954.5	CAPN1	ENSG00000014216	calpain 1 Source HGNC Symbol Acc HGNC 1476
A10	SBH0201957	ENST00000472601.5	CAPN2	ENSG00000162909	calpain 2 Source HGNC Symbol Acc HGNC 1479
A11	SBH0462377	ENST00000397200.8	CAPN3	ENSG00000092529	calpain 3 Source HGNC Symbol Acc HGNC 1480
A12	SBH0584653	ENST00000527129.1	CAPN5	ENSG00000149260	calpain 5 Source HGNC Symbol Acc HGNC 1482
B01	SBH0377694	ENST00000324068.2	CAPN6	ENSG00000077274	calpain 6 Source HGNC Symbol Acc HGNC 1483
B02	SBH0046877	ENST00000443567.5	CAPN7	ENSG00000131375	calpain 7 Source HGNC Symbol Acc HGNC 1484
B03	SBH0024803	ENST00000588815.5	CAPNS1	ENSG00000126247	calpain small subunit 1 Source HGNC Symbol Acc HGNC 1481
B04	SBH0259379	ENST00000547893.5	CASP8AP2	ENSG00000118412	caspase 8 associated protein 2 Source HGNC Symbol Acc HGNC 1510
B05	SBH0096346	ENST00000410006.6	CCDC103	ENSG00000167131	coiled-coil domain containing 103 Source HGNC Symbol Acc HGNC 32700
B06	SBH1219861	ENST00000372285.7	CD40	ENSG00000101017	CD40 molecule Source HGNC Symbol Acc HGNC 11919
B07	SBH0095247	ENST00000568877.5	COMMD4	ENSG00000140365	COMM domain containing 4 Source HGNC Symbol Acc HGNC 26027
B08	SBH1219935	ENST00000378588.4	CYBB	ENSG00000165168	cytochrome b-245 beta chain Source HGNC Symbol Acc HGNC 2578
B09	SBH0059638	ENST00000311559.13	CYLD	ENSG00000083799	CYLD lysine 63 deubiquitinase Source HGNC Symbol Acc HGNC 2584
B10	SBH0539865	ENST00000297439.4	DEFB1	ENSG00000164825	defensin beta 1 Source HGNC Symbol Acc HGNC 2766
B11	SBH0589780	ENST00000431932.6	DENND4A	ENSG00000174485	DENN domain containing 4A Source HGNC Symbol Acc HGNC 24321
B12	SBH0377213	ENST00000338492.9	DPYSL4	ENSG00000151640	dihydropyrimidinase like 4 Source HGNC Symbol Acc HGNC 3016
C01	SBH0609041	ENST00000451436.6	EDA2R	ENSG00000131080	ectodysplasin A2 receptor Source HGNC Symbol Acc HGNC 17756
C02	SBH0282447	ENST00000289371.11	EIF5B	ENSG00000158417	eukaryotic translation initiation factor 5B Source HGNC Symbol Acc HGNC 30793
C03	SBH0294674	ENST00000301838.4	FADD	ENSG00000168040	Fas associated via death domain Source HGNC Symbol Acc HGNC 3573
C04	SBH0630543	ENST00000494400.5	FAF1	ENSG00000185104	Fas associated factor 1 Source HGNC Symbol Acc HGNC 3578
C05	SBH1219994	ENST00000652046.1	FAS	ENSG00000026103	Fas cell surface death receptor Source HGNC Symbol Acc HGNC 11920
C06	SBH1219995	ENST00000367721.3	FASLG	ENSG00000117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
C07	SBH0637655	ENST00000306917.5	FEM1B	ENSG00000169018	fem-1 homolog B Source HGNC Symbol Acc HGNC 3649
C08	SBH0321983	ENST00000306268.8	FOXI1	ENSG00000168269	forkhead box I1 Source HGNC Symbol Acc HGNC 3815
C09	SBH0067264	ENST00000566605.5	FUS	ENSG00000089280	FUS RNA binding protein Source HGNC Symbol Acc HGNC 4010
C10	SBH0254571	ENST00000259056.5	GALNT5	ENSG00000136542	polypeptide N-acetylgalactosaminyltransferase 5 Source HGNC Symbol Acc HGNC 4127
		ENST00000277		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0257829	865.5	GLUD1	148672	glutamate dehydrogenase 1 Source HGNC Symbol Acc HGNC 4335
C12	SBH0236904	ENST00000417584.6	GLUL	ENSG00000135821	glutamate-ammonia ligase Source HGNC Symbol Acc HGNC 4341
D01	SBH1220038	ENST00000392563.5	GRB2	ENSG00000177885	growth factor receptor bound protein 2 Source HGNC Symbol Acc HGNC 4566
D02	SBH0622184	ENST00000467643.5	HSPBAP1	ENSG00000169087	HSPB1 associated protein 1 Source HGNC Symbol Acc HGNC 16389
D03	SBH0411490	ENST00000422680.5	IKBKG	ENSG00000269335	inhibitor of nuclear factor kappa B kinase subunit gamma Source HGNC Symbol Acc HGNC 5961
D04	SBH0489202	ENST00000563609.1	JPH3	ENSG00000154118	junctophilin 3 Source HGNC Symbol Acc HGNC 14203
D05	SBH0361360	ENST00000390656.8	KCNIP1	ENSG00000182132	potassium voltage-gated channel interacting protein 1 Source HGNC Symbol Acc HGNC 15521
D06	SBH0164256	ENST00000349238.7	MADD	ENSG00000110514	MAP kinase activating death domain Source HGNC Symbol Acc HGNC 6766
D07	SBH0470148	ENST00000392213.8	MAG	ENSG00000105695	myelin associated glycoprotein Source HGNC Symbol Acc HGNC 6783
D08	SBH0175300	ENST00000361464.8	OGA	ENSG00000198408	O-GlcNAcase Source HGNC Symbol Acc HGNC 7056
D09	SBH0303234	ENST00000648963.1	MYD88	ENSG00000172936	MYD88, innate immune signal transduction adaptor Source HGNC Symbol Acc HGNC 7562
D10	SBH1220264	ENST00000651197.1	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
D11	SBH0318562	ENST00000369512.2	NGF	ENSG00000134259	nerve growth factor Source HGNC Symbol Acc HGNC 7808
D12	SBH0556664	ENST00000504201.1	NGFR	ENSG00000064300	nerve growth factor receptor Source HGNC Symbol Acc HGNC 7809
E01	SBH0454278	ENST00000372635.1	BEX3	ENSG00000166681	brain expressed X-linked 3 Source HGNC Symbol Acc HGNC 13388
E02	SBH0124554	ENST00000372964.5	NOX1	ENSG00000007952	NADPH oxidase 1 Source HGNC Symbol Acc HGNC 7889
E03	SBH1220274	ENST00000525196.5	NOX4	ENSG00000086991	NADPH oxidase 4 Source HGNC Symbol Acc HGNC 7891
E04	SBH0136093	ENST00000649616.1	OR10J3	ENSG00000196266	olfactory receptor family 10 subfamily J member 3 Source HGNC Symbol Acc HGNC 14992
E05	SBH1220289	ENST00000366794.10	PARP1	ENSG00000143799	poly(ADP-ribose) polymerase 1 Source HGNC Symbol Acc HGNC 270
E06	SBH0568522	ENST00000250416.9	PARP2	ENSG00000129484	poly(ADP-ribose) polymerase 2 Source HGNC Symbol Acc HGNC 272
E07	SBH0534398	ENST00000411829.6	PIDD1	ENSG00000177595	p53-induced death domain protein 1 Source HGNC Symbol Acc HGNC 16491
E08	SBH1220552	ENST00000468812.6	PPIA	ENSG00000196262	peptidylprolyl isomerase A Source HGNC Symbol Acc HGNC 9253
E09	SBH0406177	ENST00000307720.4	PPID	ENSG00000171497	peptidylprolyl isomerase D Source HGNC Symbol Acc HGNC 9257
E10	SBH1220346	ENST00000403059.8	PVR	ENSG00000073008	poliovirus receptor Source HGNC Symbol Acc HGNC 9705
E11	SBH1220349	ENST00000544180.6	PYGL	ENSG00000100504	glycogen phosphorylase L Source HGNC Symbol Acc HGNC 9725
E12	SBH0546015	ENST00000497968.1	RAB25	ENSG00000132698	RAB25, member RAS oncogene family Source HGNC Symbol Acc HGNC 18238
F01	SBH1220369	ENST00000259808.9	RIPK1	ENSG00000137275	receptor interacting serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 10019
F02	SBH1220370	ENST00000220751.5	RIPK2	ENSG00000104312	receptor interacting serine/threonine kinase 2 Source HGNC Symbol Acc HGNC 10020
F03	SBH0510319	ENST00000557624.1	RIPK3	ENSG00000129465	receptor interacting serine/threonine kinase 3 Source HGNC Symbol Acc HGNC 10021
F04	SBH0368657	ENST00000329256.2	S100A7A	ENSG00000184330	S100 calcium binding protein A7A Source HGNC Symbol Acc HGNC 21657
F05	SBH0594083	ENST00000491736.1	SLC25A4	ENSG00000151729	solute carrier family 25 member 4 Source HGNC Symbol Acc HGNC 10990
F06	SBH1220419	ENST00000426431.2	SP1	ENSG00000185591	Sp1 transcription factor Source HGNC Symbol Acc HGNC 11205
F07	SBH0388314	ENST00000289431.10	SPATA2	ENSG00000158480	spermatogenesis associated 2 Source HGNC Symbol Acc HGNC 14681
F08	SBH0212598	ENST00000471331.1	SYCP2	ENSG00000196074	synaptonemal complex protein 2 Source HGNC Symbol Acc HGNC 11490
F09	SBH0453631	ENST00000528969.5	TMEM123	ENSG00000152558	transmembrane protein 123 Source HGNC Symbol Acc HGNC 30138
F10	SBH0244766	ENST00000647928.1	MACO1	ENSG00000204178	macoilin 1 Source HGNC Symbol Acc HGNC 25572

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220471	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
F12	SBH1220472	ENST00000221132.7	TNFRSF10A	ENSG00000104689	TNF receptor superfamily member 10a Source HGNC Symbol Acc HGNC 11904
G01	SBH0472908	ENST00000435221.6	TNFRSF14	ENSG00000157873	TNF receptor superfamily member 14 Source HGNC Symbol Acc HGNC 11912
G02	SBH0089303	ENST00000396495.3	TNFRSF17	ENSG00000048462	TNF receptor superfamily member 17 Source HGNC Symbol Acc HGNC 11913
G03	SBH0080951	ENST00000162749.6	TNFRSF1A	ENSG00000067182	TNF receptor superfamily member 1A Source HGNC Symbol Acc HGNC 11916
G04	SBH1220475	ENST00000536782.2	TNFRSF1B	ENSG00000028137	TNF receptor superfamily member 1B Source HGNC Symbol Acc HGNC 11917
G05	SBH0554154	ENST00000377782.7	TNFRSF25	ENSG00000215788	TNF receptor superfamily member 25 Source HGNC Symbol Acc HGNC 11910
G06	SBH0433585	ENST00000453580.1	TNFRSF4	ENSG00000186827	TNF receptor superfamily member 4 Source HGNC Symbol Acc HGNC 11918
G07	SBH0035846	ENST00000417814.3	TNFRSF8	ENSG00000120949	TNF receptor superfamily member 8 Source HGNC Symbol Acc HGNC 11923
G08	SBH1220477	ENST00000241261.7	TNFSF10	ENSG00000121858	TNF superfamily member 10 Source HGNC Symbol Acc HGNC 11925
G09	SBH0334858	ENST00000374044.1	TNFSF15	ENSG00000181634	TNF superfamily member 15 Source HGNC Symbol Acc HGNC 11931
G10	SBH1220491	ENST00000345057.9	TRADD	ENSG00000102871	TNFRSF1A associated via death domain Source HGNC Symbol Acc HGNC 12030
G11	SBH1220492	ENST00000247668.7	TRAF2	ENSG00000127191	TNF receptor associated factor 2 Source HGNC Symbol Acc HGNC 12032
G12	SBH1220498	ENST00000268483.8	TXNL4B	ENSG00000140830	thioredoxin like 4B Source HGNC Symbol Acc HGNC 26041
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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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