

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

Human Molecular Toxicology PathwayFinder

Cat. no. 249950 SBHS-401ZR

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	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 PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0585650	ENST00000469770.1	ABCB4	ENSG00000005471	ATP binding cassette subfamily B member 4 Source HGNC Symbol Acc HGNC 45
A02	SBH0620483	ENST00000649932.1	ABCC2	ENSG00000023839	ATP binding cassette subfamily C member 2 Source HGNC Symbol Acc HGNC 53
A03	SBH0597013	ENST00000503337.1	ABCC3	ENSG000000108846	ATP binding cassette subfamily C member 3 Source HGNC Symbol Acc HGNC 54
A04	SBH0112462	ENST00000370841.8	ACADM	ENSG000000117054	acyl-CoA dehydrogenase medium chain Source HGNC Symbol Acc HGNC 89
A05	SBH0640641	ENST00000579425.5	ACADVL	ENSG000000072778	acyl-CoA dehydrogenase very long chain Source HGNC Symbol Acc HGNC 92
A06	SBH0169326	ENST00000293217.10	ACOX1	ENSG000000161533	acyl-CoA oxidase 1 Source HGNC Symbol Acc HGNC 119
A07	SBH0545206	ENST00000511397.3	ADH1C	ENSG000000248144	alcohol dehydrogenase 1C (class I), gamma polypeptide Source HGNC Symbol Acc HGNC 251
A08	SBH0374562	ENST00000395738.2	ADM2	ENSG000000128165	adrenomedullin 2 Source HGNC Symbol Acc HGNC 28898
A09	SBH0438545	ENST00000604507.5	AKR1C2	ENSG000000151632	aldo-keto reductase family 1 member C2 Source HGNC Symbol Acc HGNC 385
A10	SBH0095396	ENST00000555528.5	AKT1	ENSG000000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A11	SBH0225432	ENST00000508948.5	ARRDC3	ENSG000000113369	arrestin domain containing 3 Source HGNC Symbol Acc HGNC 29263
A12	SBH0260442	ENST00000518746.2	ASAH1	ENSG000000104763	N-acylsphingosine amidohydrolase 1 Source HGNC Symbol Acc HGNC 735
B01	SBH0113091	ENST00000438264.5	ASB1	ENSG000000065802	ankyrin repeat and SOCS box containing 1 Source HGNC Symbol Acc HGNC 16011
B02	SBH0623276	ENST00000394308.8	ASNS	ENSG000000070669	asparagine synthetase (glutamine-hydrolyzing) Source HGNC Symbol Acc HGNC 753
B03	SBH1219763	ENST00000452508.6	ATM	ENSG000000149311	ATM serine/threonine kinase Source HGNC Symbol Acc HGNC 795
B04	SBH0429998	ENST00000283684.9	ATP8B1	ENSG000000081923	ATPase phospholipid transporting 8B1 Source HGNC Symbol Acc HGNC 3706
B05	SBH1219786	ENST00000398117.1	BCL2	ENSG000000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
B06	SBH0216029	ENST00000450273.1	BCL2L1	ENSG000000171552	BCL2 like 1 Source HGNC Symbol Acc HGNC 992
B07	SBH1219814	ENST00000357654.8	BRCA1	ENSG000000012048	BRCA1, DNA repair associated Source HGNC Symbol Acc HGNC 1100
B08	SBH0075404	ENST00000358485.8	CASP8	ENSG000000064012	caspase 8 Source HGNC Symbol Acc HGNC 1509
B09	SBH1219828	ENST00000333868.10	CASP9	ENSG000000132906	caspase 9 Source HGNC Symbol Acc HGNC 1511
B10	SBH0074710	ENST00000441109.6	CD36	ENSG000000135218	CD36 molecule Source HGNC Symbol Acc HGNC 1663
B11	SBH0608500	ENST00000244741.9	CDKN1A	ENSG000000124762	cyclin dependent kinase inhibitor 1A Source HGNC Symbol Acc HGNC 1784
B12	SBH0531896	ENST00000539743.5	CPT1A	ENSG000000110090	carnitine palmitoyltransferase 1A Source HGNC Symbol Acc HGNC 2328
C01	SBH0574504	ENST00000312108.11	CPT1B	ENSG000000205560	carnitine palmitoyltransferase 1B Source HGNC Symbol Acc HGNC 2329
C02	SBH1219910	ENST00000636891.1	CPT2	ENSG000000157184	carnitine palmitoyltransferase 2 Source HGNC Symbol Acc HGNC 2330
C03	SBH0096553	ENST00000527072.5	CYB561D1	ENSG000000174151	cytochrome b561 family member D1 Source HGNC Symbol Acc HGNC 26804
C04	SBH0059638	ENST00000311559.13	CYLD	ENSG000000083799	CYLD lysine 63 deubiquitinase Source HGNC Symbol Acc HGNC 2584
C05	SBH0642290	ENST00000343932.5	CYP1A2	ENSG000000140505	cytochrome P450 family 1 subfamily A member 2 Source HGNC Symbol Acc HGNC 2596
C06	SBH0306809	ENST00000593831.1	CYP2B6	ENSG000000197408	cytochrome P450 family 2 subfamily B member 6 Source HGNC Symbol Acc HGNC 2615
C07	SBH0134172	ENST00000480405.2	CYP2C19	ENSG000000165841	cytochrome P450 family 2 subfamily C member 19 Source HGNC Symbol Acc HGNC 2621
C08	SBH0147429	ENST00000643112.1	CYP2C9	ENSG000000138109	cytochrome P450 family 2 subfamily C member 9 Source HGNC Symbol Acc HGNC 2623
C09	SBH0262798	ENST00000359033.4	CYP2D6	ENSG000000100197	cytochrome P450 family 2 subfamily D member 6 Source HGNC Symbol Acc HGNC 2625
C10	SBH0562621	ENST00000595992.5	DNAJB1	ENSG000000132002	DnaJ heat shock protein family (Hsp40) member B1 Source HGNC Symbol Acc HGNC 5270
		ENST0000020249		ENSG000000	DnaJ heat shock protein family (Hsp40) member B9 Source HGNC Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0454356	356.4	DNAJB9	128590	HGNC 6968
C12	SBH1219983	ENST00000586131.6	ERCC2	ENSG00000104884	ERCC excision repair 2, TFIIH core complex helicase subunit Source HGNC Symbol Acc HGNC 3434
D01	SBH0051863	ENST00000442468.1	F2	ENSG00000180210	coagulation factor II, thrombin Source HGNC Symbol Acc HGNC 3535
D02	SBH1219995	ENST00000367721.3	FASLG	ENSG00000117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
D03	SBH0282662	ENST00000635197.1	FASN	ENSG00000169710	fatty acid synthase Source HGNC Symbol Acc HGNC 3594
D04	SBH0372986	ENST00000344213.9	FHL2	ENSG00000115641	four and a half LIM domains 2 Source HGNC Symbol Acc HGNC 3703
D05	SBH1220025	ENST00000615724.1	GCLM	ENSG00000023909	glutamate-cysteine ligase modifier subunit Source HGNC Symbol Acc HGNC 4312
D06	SBH1220038	ENST00000392563.5	GRB2	ENSG00000177885	growth factor receptor bound protein 2 Source HGNC Symbol Acc HGNC 4566
D07	SBH1220053	ENST00000563343.5	HERPUD1	ENSG00000051108	homocysteine inducible ER protein with ubiquitin like domain 1 Source HGNC Symbol Acc HGNC 13744
D08	SBH1220067	ENST00000216117.9	HMOX1	ENSG00000100292	heme oxygenase 1 Source HGNC Symbol Acc HGNC 5013
D09	SBH0607801	ENST00000597419.1	HPN	ENSG00000105707	hepsin Source HGNC Symbol Acc HGNC 5155
D10	SBH0577836	ENST00000265983.8	HPX	ENSG00000110169	hemopexin Source HGNC Symbol Acc HGNC 5171
D11	SBH0562949	ENST00000528199.5	HSF1	ENSG00000185122	heat shock transcription factor 1 Source HGNC Symbol Acc HGNC 5224
D12	SBH1220070	ENST00000299767.10	HSP90B1	ENSG00000166598	heat shock protein 90 beta family member 1 Source HGNC Symbol Acc HGNC 12028
E01	SBH0315359	ENST00000375651.6	HSPA1A	ENSG00000204389	heat shock protein family A (Hsp70) member 1A Source HGNC Symbol Acc HGNC 5232
E02	SBH0574947	ENST00000375650.5	HSPA1B	ENSG00000204388	heat shock protein family A (Hsp70) member 1B Source HGNC Symbol Acc HGNC 5233
E03	SBH1220071	ENST00000617074.4	HSPA4	ENSG00000170606	heat shock protein family A (Hsp70) member 4 Source HGNC Symbol Acc HGNC 5237
E04	SBH1220073	ENST00000534319.5	HSPA8	ENSG00000109971	heat shock protein family A (Hsp70) member 8 Source HGNC Symbol Acc HGNC 5241
E05	SBH0474094	ENST00000429938.1	HSPB1	ENSG00000106211	heat shock protein family B (small) member 1 Source HGNC Symbol Acc HGNC 5246
E06	SBH1220074	ENST00000388968.8	HSPD1	ENSG00000144381	heat shock protein family D (Hsp60) member 1 Source HGNC Symbol Acc HGNC 5261
E07	SBH1220118	ENST0000026646.3	INHBE	ENSG00000139269	inhibin subunit beta E Source HGNC Symbol Acc HGNC 24029
E08	SBH1220175	ENST00000311322.10	LPL	ENSG00000175445	lipoprotein lipase Source HGNC Symbol Acc HGNC 6677
E09	SBH0650854	ENST00000522411.5	LSS	ENSG00000160285	lanosterol synthase Source HGNC Symbol Acc HGNC 6708
E10	SBH1220184	ENST00000261267.6	LYZ	ENSG00000090382	lysozyme Source HGNC Symbol Acc HGNC 6740
E11	SBH0470148	ENST00000392213.8	MAG	ENSG00000105695	myelin associated glycoprotein Source HGNC Symbol Acc HGNC 6783
E12	SBH1220207	ENST00000523991.5	MDM2	ENSG00000135679	MDM2 proto-oncogene Source HGNC Symbol Acc HGNC 6973
F01	SBH0029471	ENST00000553151.5	METAP2	ENSG00000111142	methionyl aminopeptidase 2 Source HGNC Symbol Acc HGNC 16672
F02	SBH1220213	ENST00000368654.8	MKI67	ENSG00000148773	marker of proliferation Ki-67 Source HGNC Symbol Acc HGNC 7107
F03	SBH0321381	ENST00000229634.13	NCOA7	ENSG00000111912	nuclear receptor coactivator 7 Source HGNC Symbol Acc HGNC 21081
F04	SBH1220279	ENST00000320623.10	NQO1	ENSG00000181019	NAD(P)H quinone dehydrogenase 1 Source HGNC Symbol Acc HGNC 2874
F05	SBH0495051	ENST00000236914.7	NR5A2	ENSG00000116833	nuclear receptor subfamily 5 group A member 2 Source HGNC Symbol Acc HGNC 7984
F06	SBH0497660	ENST00000296327.10	SLC51A	ENSG00000163959	solute carrier family 51 alpha subunit Source HGNC Symbol Acc HGNC 29955
F07	SBH0568522	ENST00000250416.9	PARP2	ENSG00000129484	poly(ADP-ribose) polymerase 2 Source HGNC Symbol Acc HGNC 272
F08	SBH0477068	ENST00000650824.1	PDYN	ENSG00000101327	prodynorphin Source HGNC Symbol Acc HGNC 8820
F09	SBH1220322	ENST00000407236.5	PPARA	ENSG00000186951	peroxisome proliferator activated receptor alpha Source HGNC Symbol Acc HGNC 9232
F10	SBH1220346	ENST00000403059.8	PVR	ENSG00000073008	poliovirus receptor Source HGNC Symbol Acc HGNC 9705

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220355	ENST00000423169.6	RAD51	ENSG00000051180	RAD51 recombinase Source HGNC Symbol Acc HGNC 9817
F12	SBH0480501	ENST00000534683.1	RDX	ENSG000000137710	radixin Source HGNC Symbol Acc HGNC 9944
G01	SBH0541153	ENST00000370355.3	SCD	ENSG000000099194	stearoyl-CoA desaturase Source HGNC Symbol Acc HGNC 10571
G02	SBH0032295	ENST00000393078.4	SERPINA3	ENSG000000196136	serpin family A member 3 Source HGNC Symbol Acc HGNC 16
G03	SBH0208179	ENST00000373064.9	SLC25A25	ENSG000000148339	solute carrier family 25 member 25 Source HGNC Symbol Acc HGNC 20663
G04	SBH0631058	ENST00000476634.1	SLC2A3	ENSG000000059804	solute carrier family 2 member 3 Source HGNC Symbol Acc HGNC 11007
G05	SBH0313752	ENST00000509248.1	SLC7A11	ENSG000000151012	solute carrier family 7 member 11 Source HGNC Symbol Acc HGNC 11059
G06	SBH0652491	ENST00000423161.3	SREBF1	ENSG000000072310	sterol regulatory element binding transcription factor 1 Source HGNC Symbol Acc HGNC 11289
G07	SBH0194372	ENST00000529622.1	TAGLN	ENSG000000149591	transgelin Source HGNC Symbol Acc HGNC 11553
G08	SBH0518825	ENST00000449710.5	TRIB3	ENSG000000101255	tribbles pseudokinase 3 Source HGNC Symbol Acc HGNC 16228
G09	SBH0234271	ENST00000376704.3	TRIM10	ENSG000000204613	tripartite motif containing 10 Source HGNC Symbol Acc HGNC 10072
G10	SBH1220498	ENST00000268483.8	TXNL4B	ENSG000000140830	thioredoxin like 4B Source HGNC Symbol Acc HGNC 26041
G11	SBH0231255	ENST00000624301.3	UHRF1	ENSG000000276043	ubiquitin like with PHD and ring finger domains 1 Source HGNC Symbol Acc HGNC 12556
G12	SBH0518264	ENST00000586815.1	WIP1	ENSG000000070540	WD repeat domain, phosphoinositide interacting 1 Source HGNC Symbol Acc HGNC 25471
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG000000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG000000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG000000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG000000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG000000089157	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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