

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

Human Cytoskeleton Regulators

Cat. no. 249950 SBHS-088ZR

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	ACTR2	ACTR3	ARAP1	ARFIP2	ARHGAP6	ARHGDI8	ARHGEF11	ARPC1B	ARPC2	ARPC3	ARPC4	ARPC5
B	AURKA	AURKB	AURKC	BAIAP2	CALD1	CALM1	CASK	CCNA1	CCNB2	CDC42	CDC42BPA	CDC42EP2
C	CDC42EP3	CDK5	CDK5R1	CFL1	CIT	CLASP1	CLASP2	CLIP1	CLIP2	CRK	CTTN	CYFIP1
D	CYFIP2	DIAPH1	DSTN	EZR	FNBP1L	FSCN2	GSN	IQGAP1	IQGAP2	LIMK1	LIMK2	LLGL1
E	MACF1	MAP3K11	MAP4	MAPK13	MAPRE1	MAPRE2	MAPT	MARK2	MID1	MSN	MYLK	MYLK2
F	NCK1	NCK2	PAK1	PAK4	PFN2	PHLDB2	PIKFYVE	PPP1R12A	PPP1R12B	PPP3CA	PPP3CB	RAC1
G	RACGAP1	RDX	RHOA	ROCK1	SSH1	SSH2	STMN1	TIAM1	VASP	WAS	WASF1	WASL
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	SBH0158088	ENST00000542850.2	ACTR2	ENSG00000138071	ARP2 actin related protein 2 homolog Source HGNC Symbol Acc HGNC 169
A02	SBH0412358	ENST00000415792.5	ACTR3	ENSG00000115091	ARP3 actin related protein 3 homolog Source HGNC Symbol Acc HGNC 170
A03	SBH0290585	ENST00000359373.9	ARAP1	ENSG00000186635	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 Source HGNC Symbol Acc HGNC 16925
A04	SBH0424084	ENST00000445086.6	ARFIP2	ENSG00000132254	ADP ribosylation factor interacting protein 2 Source HGNC Symbol Acc HGNC 17160
A05	SBH0276562	ENST00000491514.1	ARHGAP6	ENSG00000047648	Rho GTPase activating protein 6 Source HGNC Symbol Acc HGNC 676
A06	SBH0074394	ENST00000228945.9	ARHGDI1B	ENSG00000111348	Rho GDP dissociation inhibitor beta Source HGNC Symbol Acc HGNC 679
A07	SBH0574920	ENST00000361409.2	ARHGEF11	ENSG00000132694	Rho guanine nucleotide exchange factor 11 Source HGNC Symbol Acc HGNC 14580
A08	SBH0362501	ENST00000484375.5	ARPC1B	ENSG00000130429	actin related protein 2/3 complex subunit 1B Source HGNC Symbol Acc HGNC 704
A09	SBH0237240	ENST00000489598.5	ARPC2	ENSG00000163466	actin related protein 2/3 complex subunit 2 Source HGNC Symbol Acc HGNC 705
A10	SBH0004954	ENST00000471641.1	ARPC3	ENSG00000111229	actin related protein 2/3 complex subunit 3 Source HGNC Symbol Acc HGNC 706
A11	SBH0664044	ENST00000498623.6	ARPC4	ENSG00000241553	actin related protein 2/3 complex subunit 4 Source HGNC Symbol Acc HGNC 707
A12	SBH0105212	ENST00000462965.1	ARPC5	ENSG00000162704	actin related protein 2/3 complex subunit 5 Source HGNC Symbol Acc HGNC 708
B01	SBH0360632	ENST00000441357.5	AURKA	ENSG00000087586	aurora kinase A Source HGNC Symbol Acc HGNC 11393
B02	SBH0250324	ENST00000580998.5	AURKB	ENSG00000178999	aurora kinase B Source HGNC Symbol Acc HGNC 11390
B03	SBH0371600	ENST00000598785.5	AURKC	ENSG00000105146	aurora kinase C Source HGNC Symbol Acc HGNC 11391
B04	SBH0654892	ENST00000577097.5	BAIAP2	ENSG00000175866	BAI1 associated protein 2 Source HGNC Symbol Acc HGNC 947
B05	SBH0414365	ENST00000361901.6	CALD1	ENSG00000122786	caldesmon 1 Source HGNC Symbol Acc HGNC 1441
B06	SBH0367465	ENST00000553542.5	CALM1	ENSG00000198668	calmodulin 1 Source HGNC Symbol Acc HGNC 1442
B07	SBH0188630	ENST00000644347.1	CASK	ENSG00000147044	calcium/calmodulin dependent serine protein kinase Source HGNC Symbol Acc HGNC 1497
B08	SBH0219497	ENST00000440264.5	CCNA1	ENSG00000133101	cyclin A1 Source HGNC Symbol Acc HGNC 1577
B09	SBH1219843	ENST00000621385.1	CCNB2	ENSG00000157456	cyclin B2 Source HGNC Symbol Acc HGNC 1580
B10	SBH0651826	ENST00000651171.1	CDC42	ENSG00000070831	cell division cycle 42 Source HGNC Symbol Acc HGNC 1736
B11	SBH0365618	ENST00000366769.7	CDC42BPA	ENSG00000143776	CDC42 binding protein kinase alpha Source HGNC Symbol Acc HGNC 1737
B12	SBH0031222	ENST00000533419.1	CDC42EP2	ENSG00000149798	CDC42 effector protein 2 Source HGNC Symbol Acc HGNC 16263
C01	SBH0329515	ENST00000422687.1	CDC42EP3	ENSG00000163171	CDC42 effector protein 3 Source HGNC Symbol Acc HGNC 16943
C02	SBH0103479	ENST00000485972.6	CDK5	ENSG00000164885	cyclin dependent kinase 5 Source HGNC Symbol Acc HGNC 1774
C03	SBH1219874	ENST00000313401.4	CDK5R1	ENSG00000176749	cyclin dependent kinase 5 regulatory subunit 1 Source HGNC Symbol Acc HGNC 1775
C04	SBH0151650	ENST00000534769.5	CFL1	ENSG00000172757	cofilin 1 Source HGNC Symbol Acc HGNC 1874
C05	SBH0398341	ENST00000612548.4	CIT	ENSG00000122966	citron rho-interacting serine/threonine kinase Source HGNC Symbol Acc HGNC 1985
C06	SBH0210713	ENST00000449975.1	CLASP1	ENSG00000074054	cytoplasmic linker associated protein 1 Source HGNC Symbol Acc HGNC 17088
C07	SBH0222935	ENST00000650653.1	CLASP2	ENSG00000163539	cytoplasmic linker associated protein 2 Source HGNC Symbol Acc HGNC 17078
C08	SBH0382096	ENST00000536634.6	CLIP1	ENSG00000130779	CAP-Gly domain containing linker protein 1 Source HGNC Symbol Acc HGNC 10461
C09	SBH0458331	ENST00000493166.1	CLIP2	ENSG00000106665	CAP-Gly domain containing linker protein 2 Source HGNC Symbol Acc HGNC 2586
C10	SBH0257676	ENST00000574295.1	CRK	ENSG00000167193	CRK proto-oncogene, adaptor protein Source HGNC Symbol Acc HGNC 2362
		ENST00000533		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0377002	931.1	CTTN	085733	cortactin Source HGNC Symbol Acc HGNC 3338
C12	SBH0497377	ENST00000621105.1	CYFIP1	ENSG00000273749	cytoplasmic FMRT1 interacting protein 1 Source HGNC Symbol Acc HGNC 13759
D01	SBH0025145	ENST00000620254.5	CYFIP2	ENSG00000055163	cytoplasmic FMRT1 interacting protein 2 Source HGNC Symbol Acc HGNC 13760
D02	SBH0140237	ENST00000491754.5	DIAPH1	ENSG00000131504	diaphanous related formin 1 Source HGNC Symbol Acc HGNC 2876
D03	SBH0360734	ENST00000449141.2	DSTN	ENSG00000125868	destrin, actin depolymerizing factor Source HGNC Symbol Acc HGNC 15750
D04	SBH0648550	ENST00000392177.8	EZR	ENSG00000092820	ezrin Source HGNC Symbol Acc HGNC 12691
D05	SBH0225107	ENST00000260506.12	FNBP1L	ENSG00000137942	formin binding protein 1 like Source HGNC Symbol Acc HGNC 20851
D06	SBH0522577	ENST00000417245.6	FSCN2	ENSG00000186765	fascin actin-bundling protein 2, retinal Source HGNC Symbol Acc HGNC 3960
D07	SBH0550917	ENST00000545652.6	GSN	ENSG00000148180	gelsolin Source HGNC Symbol Acc HGNC 4620
D08	SBH0404179	ENST00000268182.10	IQGAP1	ENSG00000140575	IQ motif containing GTPase activating protein 1 Source HGNC Symbol Acc HGNC 6110
D09	SBH0511520	ENST00000509074.5	IQGAP2	ENSG00000145703	IQ motif containing GTPase activating protein 2 Source HGNC Symbol Acc HGNC 6111
D10	SBH0259352	ENST00000483414.1	LIMK1	ENSG00000106683	LIM domain kinase 1 Source HGNC Symbol Acc HGNC 6613
D11	SBH0602288	ENST00000406516.5	LIMK2	ENSG00000182541	LIM domain kinase 2 Source HGNC Symbol Acc HGNC 6614
D12	SBH0188578	ENST00000479155.1	LLGL1	ENSG00000131899	LLGL scribble cell polarity complex component 1 Source HGNC Symbol Acc HGNC 6628
E01	SBH0006962	ENST00000372925.6	MACF1	ENSG00000127603	microtubule-actin crosslinking factor 1 Source HGNC Symbol Acc HGNC 13664
E02	SBH0012970	ENST00000534432.1	MAP3K11	ENSG00000173327	mitogen-activated protein kinase kinase kinase 11 Source HGNC Symbol Acc HGNC 6850
E03	SBH0423185	ENST00000439356.2	MAP4	ENSG00000047849	microtubule associated protein 4 Source HGNC Symbol Acc HGNC 6862
E04	SBH0068887	ENST00000211287.9	MAPK13	ENSG00000156711	mitogen-activated protein kinase 13 Source HGNC Symbol Acc HGNC 6875
E05	SBH0327825	ENST00000375571.6	MAPRE1	ENSG00000101367	microtubule associated protein RP/EB family member 1 Source HGNC Symbol Acc HGNC 6890
E06	SBH0671497	ENST00000538170.6	MAPRE2	ENSG00000166974	microtubule associated protein RP/EB family member 2 Source HGNC Symbol Acc HGNC 6891
E07	SBH0522404	ENST00000570299.5	MAPT	ENSG00000186868	microtubule associated protein tau Source HGNC Symbol Acc HGNC 6893
E08	SBH0221276	ENST00000508192.5	MARK2	ENSG00000072518	microtubule affinity regulating kinase 2 Source HGNC Symbol Acc HGNC 3332
E09	SBH0567196	ENST00000610939.1	MID1	ENSG00000101871	midline 1 Source HGNC Symbol Acc HGNC 7095
E10	SBH1220230	ENST00000360270.7	MSN	ENSG00000147065	moesin Source HGNC Symbol Acc HGNC 7373
E11	SBH0229368	ENST00000578202.1	MYLK	ENSG00000065534	myosin light chain kinase Source HGNC Symbol Acc HGNC 7590
E12	SBH0093497	ENST00000375985.4	MYLK2	ENSG00000101306	myosin light chain kinase 2 Source HGNC Symbol Acc HGNC 16243
F01	SBH0524718	ENST00000485096.5	NCK1	ENSG00000158092	NCK adaptor protein 1 Source HGNC Symbol Acc HGNC 7664
F02	SBH0664758	ENST00000522586.5	NCK2	ENSG00000071051	NCK adaptor protein 2 Source HGNC Symbol Acc HGNC 7665
F03	SBH0221748	ENST00000356341.7	PAK1	ENSG00000149269	p21 (RAC1) activated kinase 1 Source HGNC Symbol Acc HGNC 8590
F04	SBH0488739	ENST00000599386.5	PAK4	ENSG00000130669	p21 (RAC1) activated kinase 4 Source HGNC Symbol Acc HGNC 16059
F05	SBH0409271	ENST00000490975.1	PFN2	ENSG00000070087	profilin 2 Source HGNC Symbol Acc HGNC 8882
F06	SBH0170461	ENST00000393925.7	PHLDB2	ENSG00000144824	pleckstrin homology like domain family B member 2 Source HGNC Symbol Acc HGNC 29573
F07	SBH0321412	ENST00000392202.7	PIKFYVE	ENSG00000115020	phosphoinositide kinase, FYVE-type zinc finger containing Source HGNC Symbol Acc HGNC 23785
F08	SBH0642665	ENST00000450142.7	PPP1R12A	ENSG00000058272	protein phosphatase 1 regulatory subunit 12A Source HGNC Symbol Acc HGNC 7618
F09	SBH0256555	ENST00000367269.2	PPP1R12B	ENSG00000077157	protein phosphatase 1 regulatory subunit 12B Source HGNC Symbol Acc HGNC 7619
F10	SBH0472618	ENST00000394854.8	PPP3CA	ENSG00000138814	protein phosphatase 3 catalytic subunit alpha Source HGNC Symbol Acc HGNC 9314

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0266531	ENST00000394828.6	PPP3CB	ENSG00000107758	protein phosphatase 3 catalytic subunit beta Source HGNC Symbol Acc HGNC 9315
F12	SBH1220352	ENST00000356142.4	RAC1	ENSG00000136238	Rac family small GTPase 1 Source HGNC Symbol Acc HGNC 9801
G01	SBH0322833	ENST00000548644.5	RACGAP1	ENSG00000161800	Rac GTPase activating protein 1 Source HGNC Symbol Acc HGNC 9804
G02	SBH0480501	ENST00000534683.1	RDX	ENSG00000137710	radixin Source HGNC Symbol Acc HGNC 9944
G03	SBH1220367	ENST00000418115.6	RHOA	ENSG00000067560	ras homolog family member A Source HGNC Symbol Acc HGNC 667
G04	SBH0145863	ENST00000635540.1	ROCK1	ENSG00000067900	Rho associated coiled-coil containing protein kinase 1 Source HGNC Symbol Acc HGNC 10251
G05	SBH0216820	ENST00000546812.1	SSH1	ENSG00000084112	slingshot protein phosphatase 1 Source HGNC Symbol Acc HGNC 30579
G06	SBH0488395	ENST00000540801.6	SSH2	ENSG00000141298	slingshot protein phosphatase 2 Source HGNC Symbol Acc HGNC 30580
G07	SBH1220427	ENST00000426559.6	STMN1	ENSG00000117632	stathmin 1 Source HGNC Symbol Acc HGNC 6510
G08	SBH0149027	ENST00000541036.5	TIAM1	ENSG00000156299	T cell lymphoma invasion and metastasis 1 Source HGNC Symbol Acc HGNC 11805
G09	SBH0444189	ENST00000586014.5	VASP	ENSG00000125753	vasodilator stimulated phosphoprotein Source HGNC Symbol Acc HGNC 12652
G10	SBH0659210	ENST00000483750.5	WAS	ENSG00000015285	Wiskott-Aldrich syndrome Source HGNC Symbol Acc HGNC 12731
G11	SBH0496720	ENST00000392588.5	WASF1	ENSG00000112290	WAS protein family member 1 Source HGNC Symbol Acc HGNC 12732
G12	SBH0637755	ENST00000223023.5	WASL	ENSG00000106299	Wiskott-Aldrich syndrome like Source HGNC Symbol Acc HGNC 12735
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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