

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

Human Focal Adhesions

Cat. no. 249950 SBHS-145ZA

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	ACTN1	ACTN2	ACTN4	AKT1	AKT2	AKT3	ARHGAP5	BCAR1	CAPN2	CAV1	CAV2	CAV3
B	CDC42	CRK	CRKL	CTNNB1	DIAPH1	DOCK1	DST	FLNA	FLNB	FYN	GRB2	GSK3B
C	HRAS	ILK	ITGA1	ITGA11	ITGA2	ITGA2B	ITGA3	ITGA4	ITGA5	ITGA6	ITGA7	ITGA8
D	ITGA9	ITGAL	ITGAM	ITGAV	ITGAX	ITGB1	ITGB2	ITGB3	ITGB4	ITGB5	ITGB6	PAK1
E	PAK2	PAK3	PAK4	PARVA	PARVB	PARVG	PDPK1	PIP5K1C	PLEC	PRKCA	PRKCB	PRKCG
F	PTEN	PTK2	PXN	RAC1	RAC2	RAF1	RAP1A	RAP1B	RAPGEF1	RASGRF1	RHOA	ROCK1
G	ROCK2	SHC1	SOS1	SOS2	SRC	TLN1	TNS1	VASP	VAV1	VAV2	VCL	ZYX
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	SBH0484630	ENST00000556571.1	ACTN1	ENSG00000072110	actinin alpha 1 Source HGNC Symbol Acc HGNC 163
A02	SBH0614210	ENST00000492634.6	ACTN2	ENSG00000077522	actinin alpha 2 Source HGNC Symbol Acc HGNC 164
A03	SBH0569283	ENST00000495553.1	ACTN4	ENSG00000130402	actinin alpha 4 Source HGNC Symbol Acc HGNC 166
A04	SBH0095396	ENST00000555528.5	AKT1	ENSG00000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A05	SBH0364428	ENST00000492463.6	AKT2	ENSG00000105221	AKT serine/threonine kinase 2 Source HGNC Symbol Acc HGNC 392
A06	SBH0031667	ENST00000463991.5	AKT3	ENSG00000117020	AKT serine/threonine kinase 3 Source HGNC Symbol Acc HGNC 393
A07	SBH0298837	ENST00000396582.6	ARHGAP5	ENSG00000100852	Rho GTPase activating protein 5 Source HGNC Symbol Acc HGNC 675
A08	SBH0344204	ENST00000162330.10	BCAR1	ENSG00000050820	BCAR1, Cas family scaffold protein Source HGNC Symbol Acc HGNC 971
A09	SBH0201957	ENST00000472601.5	CAPN2	ENSG00000162909	calpain 2 Source HGNC Symbol Acc HGNC 1479
A10	SBH0105254	ENST00000451122.5	CAV1	ENSG00000105974	caveolin 1 Source HGNC Symbol Acc HGNC 1527
A11	SBH0607858	ENST00000484871.5	CAV2	ENSG00000105971	caveolin 2 Source HGNC Symbol Acc HGNC 1528
A12	SBH0244733	ENST00000343849.2	CAV3	ENSG00000182533	caveolin 3 Source HGNC Symbol Acc HGNC 1529
B01	SBH0651826	ENST00000651171.1	CDC42	ENSG00000070831	cell division cycle 42 Source HGNC Symbol Acc HGNC 1736
B02	SBH0257676	ENST00000574295.1	CRK	ENSG00000167193	CRK proto-oncogene, adaptor protein Source HGNC Symbol Acc HGNC 2362
B03	SBH0632900	ENST00000411769.1	CRKL	ENSG00000099942	CRK like proto-oncogene, adaptor protein Source HGNC Symbol Acc HGNC 2363
B04	SBH0588482	ENST00000396183.7	CTNNB1	ENSG00000168036	catenin beta 1 Source HGNC Symbol Acc HGNC 2514
B05	SBH0140237	ENST00000491754.5	DIAPH1	ENSG00000131504	diaphanous related formin 1 Source HGNC Symbol Acc HGNC 2876
B06	SBH0055073	ENST00000484400.5	DOCK1	ENSG00000150760	dedicator of cytokinesis 1 Source HGNC Symbol Acc HGNC 2987
B07	SBH0408488	ENST00000370788.6	DST	ENSG00000151914	dystonin Source HGNC Symbol Acc HGNC 1090
B08	SBH0353138	ENST00000360319.9	FLNA	ENSG00000196924	filamin A Source HGNC Symbol Acc HGNC 3754
B09	SBH0071893	ENST00000475487.1	FLNB	ENSG00000136068	filamin B Source HGNC Symbol Acc HGNC 3755
B10	SBH0633994	ENST00000518295.5	FYN	ENSG00000010810	FYN proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 4037
B11	SBH1220038	ENST00000392563.5	GRB2	ENSG00000177885	growth factor receptor bound protein 2 Source HGNC Symbol Acc HGNC 4566
B12	SBH0579883	ENST00000316626.5	GSK3B	ENSG00000082701	glycogen synthase kinase 3 beta Source HGNC Symbol Acc HGNC 4617
C01	SBH0257285	ENST00000493230.5	HRAS	ENSG00000174775	HRas proto-oncogene, GTPase Source HGNC Symbol Acc HGNC 5173
C02	SBH0381135	ENST00000299421.8	ILK	ENSG00000166333	integrin linked kinase Source HGNC Symbol Acc HGNC 6040
C03	SBH1220129	ENST00000282588.6	ITGA1	ENSG000000213949	integrin subunit alpha 1 Source HGNC Symbol Acc HGNC 6134
C04	SBH0035047	ENST00000562826.5	ITGA11	ENSG00000137809	integrin subunit alpha 11 Source HGNC Symbol Acc HGNC 6136
C05	SBH1220130	ENST00000296585.10	ITGA2	ENSG00000164171	integrin subunit alpha 2 Source HGNC Symbol Acc HGNC 6137
C06	SBH0294910	ENST00000648408.1	ITGA2B	ENSG00000005961	integrin subunit alpha 2b Source HGNC Symbol Acc HGNC 6138
C07	SBH1220131	ENST00000007722.11	ITGA3	ENSG00000005884	integrin subunit alpha 3 Source HGNC Symbol Acc HGNC 6139
C08	SBH1220132	ENST00000397033.7	ITGA4	ENSG00000115232	integrin subunit alpha 4 Source HGNC Symbol Acc HGNC 6140
C09	SBH1220133	ENST00000293379.9	ITGA5	ENSG00000161638	integrin subunit alpha 5 Source HGNC Symbol Acc HGNC 6141
C10	SBH0096168	ENST00000264107.11	ITGA6	ENSG00000091409	integrin subunit alpha 6 Source HGNC Symbol Acc HGNC 6142
		ENST0000020257		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0439269	879.10	ITGA7	135424	integrin subunit alpha 7 Source HGNC Symbol Acc HGNC 6143
C12	SBH1220134	ENST00000378076.4	ITGA8	ENSG00000077943	integrin subunit alpha 8 Source HGNC Symbol Acc HGNC 6144
D01	SBH0123335	ENST00000264741.10	ITGA9	ENSG00000144668	integrin subunit alpha 9 Source HGNC Symbol Acc HGNC 6145
D02	SBH1220135	ENST00000356798.10	ITGAL	ENSG00000005844	integrin subunit alpha L Source HGNC Symbol Acc HGNC 6148
D03	SBH0245852	ENST00000287497.13	ITGAM	ENSG00000169896	integrin subunit alpha M Source HGNC Symbol Acc HGNC 6149
D04	SBH0064907	ENST00000460641.1	ITGAV	ENSG00000138448	integrin subunit alpha V Source HGNC Symbol Acc HGNC 6150
D05	SBH0462220	ENST00000268296.8	ITGAX	ENSG00000140678	integrin subunit alpha X Source HGNC Symbol Acc HGNC 6152
D06	SBH1220136	ENST00000302278.8	ITGB1	ENSG00000150093	integrin subunit beta 1 Source HGNC Symbol Acc HGNC 6153
D07	SBH0032107	ENST00000397857.5	ITGB2	ENSG00000160255	integrin subunit beta 2 Source HGNC Symbol Acc HGNC 6155
D08	SBH1220137	ENST00000559488.5	ITGB3	ENSG00000259207	integrin subunit beta 3 Source HGNC Symbol Acc HGNC 6156
D09	SBH1220138	ENST00000450894.7	ITGB4	ENSG00000132470	integrin subunit beta 4 Source HGNC Symbol Acc HGNC 6158
D10	SBH1220139	ENST00000608657.5	ITGB5	ENSG00000082781	integrin subunit beta 5 Source HGNC Symbol Acc HGNC 6160
D11	SBH1220140	ENST00000409872.1	ITGB6	ENSG00000115221	integrin subunit beta 6 Source HGNC Symbol Acc HGNC 6161
D12	SBH0221748	ENST00000356341.7	PAK1	ENSG00000149269	p21 (RAC1) activated kinase 1 Source HGNC Symbol Acc HGNC 8590
E01	SBH0516046	ENST00000426668.1	PAK2	ENSG00000180370	p21 (RAC1) activated kinase 2 Source HGNC Symbol Acc HGNC 8591
E02	SBH0339419	ENST00000518291.5	PAK3	ENSG00000077264	p21 (RAC1) activated kinase 3 Source HGNC Symbol Acc HGNC 8592
E03	SBH0488739	ENST00000599386.5	PAK4	ENSG00000130669	p21 (RAC1) activated kinase 4 Source HGNC Symbol Acc HGNC 16059
E04	SBH0074910	ENST00000528916.1	PARVA	ENSG00000197702	parvin alpha Source HGNC Symbol Acc HGNC 14652
E05	SBH0164689	ENST00000444029.5	PARVB	ENSG00000188677	parvin beta Source HGNC Symbol Acc HGNC 14653
E06	SBH0295292	ENST00000444313.8	PARVG	ENSG00000138964	parvin gamma Source HGNC Symbol Acc HGNC 14654
E07	SBH0257483	ENST00000441549.7	PDPK1	ENSG00000140992	3-phosphoinositide dependent protein kinase 1 Source HGNC Symbol Acc HGNC 8816
E08	SBH0437614	ENST00000592530.1	PIP5K1C	ENSG00000186111	phosphatidylinositol-4-phosphate 5-kinase type 1 gamma Source HGNC Symbol Acc HGNC 8996
E09	SBH0316876	ENST00000527816.5	PLEC	ENSG00000178209	plectin Source HGNC Symbol Acc HGNC 9069
E10	SBH0105563	ENST00000578063.5	PRKCA	ENSG00000154229	protein kinase C alpha Source HGNC Symbol Acc HGNC 9393
E11	SBH0521170	ENST00000472066.1	PRKCB	ENSG00000166501	protein kinase C beta Source HGNC Symbol Acc HGNC 9395
E12	SBH0670634	ENST00000419486.1	PRKCG	ENSG00000126583	protein kinase C gamma Source HGNC Symbol Acc HGNC 9402
F01	SBH1225378	ENST00000371953.8	PTEN	ENSG00000171862	phosphatase and tensin homolog Source HGNC Symbol Acc HGNC 9588
F02	SBH1220345	ENST00000523539.5	PTK2	ENSG00000169398	protein tyrosine kinase 2 Source HGNC Symbol Acc HGNC 9611
F03	SBH0004826	ENST00000552550.5	PXN	ENSG00000089159	paxillin Source HGNC Symbol Acc HGNC 9718
F04	SBH1220352	ENST00000356142.4	RAC1	ENSG00000136238	Rac family small GTPase 1 Source HGNC Symbol Acc HGNC 9801
F05	SBH0241764	ENST00000249071.11	RAC2	ENSG00000128340	Rac family small GTPase 2 Source HGNC Symbol Acc HGNC 9802
F06	SBH0573752	ENST00000416093.1	RAF1	ENSG00000132155	Raf-1 proto-oncogene, serine/threonine kinase Source HGNC Symbol Acc HGNC 9829
F07	SBH0176409	ENST00000356415.5	RAP1A	ENSG00000116473	RAP1A, member of RAS oncogene family Source HGNC Symbol Acc HGNC 9855
F08	SBH0097492	ENST00000250559.14	RAP1B	ENSG00000127314	RAP1B, member of RAS oncogene family Source HGNC Symbol Acc HGNC 9857
F09	SBH0395905	ENST00000372195.5	RAPGEF1	ENSG00000107263	Rap guanine nucleotide exchange factor 1 Source HGNC Symbol Acc HGNC 4568
F10	SBH0438231	ENST00000560943.5	RASGRF1	ENSG00000058335	Ras protein specific guanine nucleotide releasing factor 1 Source HGNC Symbol Acc HGNC 9875

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220367	ENST00000418115.6	RHOA	ENSG00000067560	ras homolog family member A Source HGNC Symbol Acc HGNC 667
F12	SBH0145863	ENST00000635540.1	ROCK1	ENSG00000067900	Rho associated coiled-coil containing protein kinase 1 Source HGNC Symbol Acc HGNC 10251
G01	SBH0416756	ENST00000401753.5	ROCK2	ENSG000000134318	Rho associated coiled-coil containing protein kinase 2 Source HGNC Symbol Acc HGNC 10252
G02	SBH0510346	ENST00000368450.5	SHC1	ENSG000000160691	SHC adaptor protein 1 Source HGNC Symbol Acc HGNC 10840
G03	SBH0363804	ENST00000426016.5	SOS1	ENSG000000115904	SOS Ras/Rac guanine nucleotide exchange factor 1 Source HGNC Symbol Acc HGNC 11187
G04	SBH0069996	ENST00000556452.1	SOS2	ENSG000000100485	SOS Ras/Rho guanine nucleotide exchange factor 2 Source HGNC Symbol Acc HGNC 11188
G05	SBH0514958	ENST00000489153.1	SRC	ENSG000000197122	SRC proto-oncogene, non-receptor tyrosine kinase Source HGNC Symbol Acc HGNC 11283
G06	SBH0194513	ENST00000466916.1	TLN1	ENSG000000137076	talin 1 Source HGNC Symbol Acc HGNC 11845
G07	SBH0348880	ENST00000446903.5	TNS1	ENSG000000079308	tensin 1 Source HGNC Symbol Acc HGNC 11973
G08	SBH0444189	ENST00000586014.5	VASP	ENSG000000125753	vasodilator stimulated phosphoprotein Source HGNC Symbol Acc HGNC 12652
G09	SBH0216129	ENST00000596764.5	VAV1	ENSG000000141968	vav guanine nucleotide exchange factor 1 Source HGNC Symbol Acc HGNC 12657
G10	SBH0264273	ENST00000486113.1	VAV2	ENSG000000160293	vav guanine nucleotide exchange factor 2 Source HGNC Symbol Acc HGNC 12658
G11	SBH0626257	ENST00000478896.2	VCL	ENSG000000035403	vinculin Source HGNC Symbol Acc HGNC 12665
G12	SBH0382988	ENST00000436448.1	ZYX	ENSG000000159840	zyxin Source HGNC Symbol Acc HGNC 13200
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 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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