

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

Human EGF / PDGF Signaling Pathway

Cat. no. 249950 SBHS-040ZR

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	AKT1	AKT2	AKT3	ARAF	ATF1	ATF2	BAD	BCAR1	BCL2	BRAF	CASP3
B	CASP9	CBL	CCND1	CHUK	COL1A1	CREB1	CSNK2A1	CSNK2B	DUSP1	DUSP6	EGF	EGFR
C	EGR1	EIF4E	ELK1	EPS8	FASLG	FN1	FOS	FOXO3	GAB1	GRB2	GSK3A	GSK3B
D	HBEGF	HRAS	IKKBK	IL2	JAK1	JUN	KRAS	LTA	MAP2K1	MAP2K4	MAP2K7	MAP3K2
E	MAPK1	MAPK10	MAPK3	MAPK8	MAPK9	MKNK1	MMP7	NCK2	NFATC3	NFKB1	NRAS	NUP62
F	PDGFA	PDGFB	PDGFRA	PDPK1	PIK3CA	PIK3R1	PIK3R2	PLAT	PLCG1	PPP2CA	PRKCA	PTEN
G	RAF1	RAP1A	RASA1	RHOA	RPS6KA5	RPS6KB1	SHC1	SRC	STAT1	STAT3	STAT5A	TP53
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	SBH0095396	ENST0000055528.5	AKT1	ENSG00000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A03	SBH0364428	ENST00000492463.6	AKT2	ENSG00000105221	AKT serine/threonine kinase 2 Source HGNC Symbol Acc HGNC 392
A04	SBH0031667	ENST00000463991.5	AKT3	ENSG00000117020	AKT serine/threonine kinase 3 Source HGNC Symbol Acc HGNC 393
A05	SBH0270663	ENST00000489496.1	ARAF	ENSG00000078061	A-Raf proto-oncogene, serine/threonine kinase Source HGNC Symbol Acc HGNC 646
A06	SBH0226075	ENST00000552510.5	ATF1	ENSG00000123268	activating transcription factor 1 Source HGNC Symbol Acc HGNC 783
A07	SBH1219753	ENST00000409833.5	ATF2	ENSG00000115966	activating transcription factor 2 Source HGNC Symbol Acc HGNC 784
A08	SBH0034205	ENST00000394532.7	BAD	ENSG00000002330	BCL2 associated agonist of cell death Source HGNC Symbol Acc HGNC 936
A09	SBH0344204	ENST00000162330.10	BCAR1	ENSG00000050820	BCAR1, Cas family scaffold protein Source HGNC Symbol Acc HGNC 971
A10	SBH1219786	ENST00000398117.1	BCL2	ENSG000000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A11	SBH1219813	ENST00000288602.11	BRAF	ENSG000000157764	B-Raf proto-oncogene, serine/threonine kinase Source HGNC Symbol Acc HGNC 1097
A12	SBH1219824	ENST00000308394.9	CASP3	ENSG000000164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
B01	SBH1219828	ENST00000333868.10	CASP9	ENSG000000132906	caspase 9 Source HGNC Symbol Acc HGNC 1511
B02	SBH0174182	ENST00000634840.1	CBL	ENSG000000110395	Cbl proto-oncogene Source HGNC Symbol Acc HGNC 1541
B03	SBH0434090	ENST00000227507.2	CCND1	ENSG000000110092	cyclin D1 Source HGNC Symbol Acc HGNC 1582
B04	SBH1219887	ENST00000370397.8	CHUK	ENSG000000213341	conserved helix-loop-helix ubiquitous kinase Source HGNC Symbol Acc HGNC 1974
B05	SBH0268763	ENST00000225964.9	COL1A1	ENSG000000108821	collagen type I alpha 1 chain Source HGNC Symbol Acc HGNC 2197
B06	SBH0077258	ENST00000353267.8	CREB1	ENSG000000118260	cAMP responsive element binding protein 1 Source HGNC Symbol Acc HGNC 2345
B07	SBH1219915	ENST00000645187.1	CSNK2A1	ENSG000000101266	casein kinase 2 alpha 1 Source HGNC Symbol Acc HGNC 2457
B08	SBH0606437	ENST00000375885.8	CSNK2B	ENSG000000204435	casein kinase 2 beta Source HGNC Symbol Acc HGNC 2460
B09	SBH1219962	ENST00000239223.4	DUSP1	ENSG000000120129	dual specificity phosphatase 1 Source HGNC Symbol Acc HGNC 3064
B10	SBH0100832	ENST00000547140.1	DUSP6	ENSG000000139318	dual specificity phosphatase 6 Source HGNC Symbol Acc HGNC 3072
B11	SBH0321686	ENST00000265171.9	EGF	ENSG000000138798	epidermal growth factor Source HGNC Symbol Acc HGNC 3229
B12	SBH1219970	ENST00000454757.6	EGFR	ENSG000000146648	epidermal growth factor receptor Source HGNC Symbol Acc HGNC 3236
C01	SBH0290504	ENST00000239938.5	EGR1	ENSG000000120738	early growth response 1 Source HGNC Symbol Acc HGNC 3238
C02	SBH0565938	ENST00000505992.1	EIF4E	ENSG000000151247	eukaryotic translation initiation factor 4E Source HGNC Symbol Acc HGNC 3287
C03	SBH1219973	ENST00000376983.8	ELK1	ENSG000000126767	ELK1, ETS transcription factor Source HGNC Symbol Acc HGNC 3321
C04	SBH0193410	ENST00000642278.1	EPS8	ENSG000000151491	epidermal growth factor receptor pathway substrate 8 Source HGNC Symbol Acc HGNC 3420
C05	SBH1219995	ENST0000036721.3	FASLG	ENSG000000117560	Fas ligand Source HGNC Symbol Acc HGNC 11936
C06	SBH1220003	ENST00000354785.9	FN1	ENSG000000115414	fibronectin 1 Source HGNC Symbol Acc HGNC 3778
C07	SBH1220004	ENST00000554617.1	FOS	ENSG000000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
C08	SBH0089051	ENST00000406360.2	FOXO3	ENSG000000118689	forkhead box O3 Source HGNC Symbol Acc HGNC 3821
C09	SBH0066881	ENST00000515366.5	GAB1	ENSG000000109458	GRB2 associated binding protein 1 Source HGNC Symbol Acc HGNC 4066
C10	SBH1220038	ENST00000392563.5	GRB2	ENSG000000177885	growth factor receptor bound protein 2 Source HGNC Symbol Acc HGNC 4566
		ENST00000222		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH1220041	330.8	GSK3A	105723	glycogen synthase kinase 3 alpha Source HGNC Symbol Acc HGNC 4616
C12	SBH0579883	ENST00000316626.5	GSK3B	ENSG00000082701	glycogen synthase kinase 3 beta Source HGNC Symbol Acc HGNC 4617
D01	SBH0028682	ENST00000230990.7	HBEGF	ENSG00000113070	heparin binding EGF like growth factor Source HGNC Symbol Acc HGNC 3059
D02	SBH0257285	ENST00000493230.5	HRAS	ENSG00000174775	HRas proto-oncogene, GTPase Source HGNC Symbol Acc HGNC 5173
D03	SBH0241248	ENST00000520810.6	IKKB	ENSG00000104365	inhibitor of nuclear factor kappa B kinase subunit beta Source HGNC Symbol Acc HGNC 5960
D04	SBH0225582	ENST00000226730.4	IL2	ENSG00000109471	interleukin 2 Source HGNC Symbol Acc HGNC 6001
D05	SBH1220142	ENST00000342505.5	JAK1	ENSG00000162434	Janus kinase 1 Source HGNC Symbol Acc HGNC 6190
D06	SBH0613340	ENST00000371222.3	JUN	ENSG00000177606	Jun proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6204
D07	SBH0300474	ENST00000556131.1	KRAS	ENSG00000133703	KRAS proto-oncogene, GTPase Source HGNC Symbol Acc HGNC 6407
D08	SBH0249281	ENST00000418386.2	LTA	ENSG00000226979	lymphotoxin alpha Source HGNC Symbol Acc HGNC 6709
D09	SBH0671782	ENST00000307102.9	MAP2K1	ENSG00000169032	mitogen-activated protein kinase kinase 1 Source HGNC Symbol Acc HGNC 6840
D10	SBH1220189	ENST00000353533.10	MAP2K4	ENSG00000065559	mitogen-activated protein kinase kinase 4 Source HGNC Symbol Acc HGNC 6844
D11	SBH0339605	ENST00000397981.7	MAP2K7	ENSG00000076984	mitogen-activated protein kinase kinase 7 Source HGNC Symbol Acc HGNC 6847
D12	SBH0246906	ENST00000409179.2	MAP3K2	ENSG00000169967	mitogen-activated protein kinase kinase kinase 2 Source HGNC Symbol Acc HGNC 6854
E01	SBH1220192	ENST00000544786.1	MAPK1	ENSG00000100030	mitogen-activated protein kinase 1 Source HGNC Symbol Acc HGNC 6871
E02	SBH0213234	ENST00000641208.1	MAPK10	ENSG00000109339	mitogen-activated protein kinase 10 Source HGNC Symbol Acc HGNC 6872
E03	SBH1220194	ENST00000478356.5	MAPK3	ENSG00000102882	mitogen-activated protein kinase 3 Source HGNC Symbol Acc HGNC 6877
E04	SBH0294318	ENST00000395611.7	MAPK8	ENSG00000107643	mitogen-activated protein kinase 8 Source HGNC Symbol Acc HGNC 6881
E05	SBH0380071	ENST00000343111.10	MAPK9	ENSG00000050748	mitogen-activated protein kinase 9 Source HGNC Symbol Acc HGNC 6886
E06	SBH0525606	ENST00000650508.1	MKNIK1	ENSG00000079277	MAP kinase interacting serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 7110
E07	SBH1220224	ENST00000260227.5	MMP7	ENSG00000137673	matrix metalloproteinase 7 Source HGNC Symbol Acc HGNC 7174
E08	SBH0664758	ENST00000522586.5	NCK2	ENSG00000071051	NCK adaptor protein 2 Source HGNC Symbol Acc HGNC 7665
E09	SBH0604923	ENST00000562171.1	NFATC3	ENSG00000072736	nuclear factor of activated T cells 3 Source HGNC Symbol Acc HGNC 7777
E10	SBH1220264	ENST00000651197.1	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
E11	SBH0148098	ENST00000369535.5	NRAS	ENSG00000213281	NRAS proto-oncogene, GTPase Source HGNC Symbol Acc HGNC 7989
E12	SBH0585392	ENST00000597029.5	NUP62	ENSG00000213024	nucleoporin 62 Source HGNC Symbol Acc HGNC 8066
F01	SBH0498934	ENST00000354513.9	PDGFA	ENSG00000197461	platelet derived growth factor subunit A Source HGNC Symbol Acc HGNC 8799
F02	SBH0091370	ENST00000331163.10	PDGFB	ENSG00000100311	platelet derived growth factor subunit B Source HGNC Symbol Acc HGNC 8800
F03	SBH1220292	ENST00000257290.10	PDGFRA	ENSG00000134853	platelet derived growth factor receptor alpha Source HGNC Symbol Acc HGNC 8803
F04	SBH0257483	ENST00000441549.7	PDPK1	ENSG00000140992	3-phosphoinositide dependent protein kinase 1 Source HGNC Symbol Acc HGNC 8816
F05	SBH0121428	ENST00000462255.1	PIK3CA	ENSG00000121879	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha Source HGNC Symbol Acc HGNC 8975
F06	SBH0560623	ENST00000518813.5	PIK3R1	ENSG00000145675	phosphoinositide-3-kinase regulatory subunit 1 Source HGNC Symbol Acc HGNC 8979
F07	SBH0626073	ENST00000617130.4	PIK3R2	ENSG00000105647	phosphoinositide-3-kinase regulatory subunit 2 Source HGNC Symbol Acc HGNC 8980
F08	SBH0432338	ENST00000220809.8	PLAT	ENSG00000104368	plasminogen activator, tissue type Source HGNC Symbol Acc HGNC 9051
F09	SBH0415853	ENST00000608689.5	PLCG1	ENSG00000124181	phospholipase C gamma 1 Source HGNC Symbol Acc HGNC 9065
F10	SBH0088930	ENST00000522385.1	PPP2CA	ENSG00000113575	protein phosphatase 2 catalytic subunit alpha Source HGNC Symbol Acc HGNC 9299

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0105563	ENST00000578063.5	PRKCA	ENSG00000154229	protein kinase C alpha Source HGNC Symbol Acc HGNC 9393
F12	SBH1225378	ENST00000371953.8	PTEN	ENSG00000171862	phosphatase and tensin homolog Source HGNC Symbol Acc HGNC 9588
G01	SBH0573752	ENST00000416093.1	RAF1	ENSG00000132155	Raf-1 proto-oncogene, serine/threonine kinase Source HGNC Symbol Acc HGNC 9829
G02	SBH0176409	ENST00000356415.5	RAP1A	ENSG00000116473	RAP1A, member of RAS oncogene family Source HGNC Symbol Acc HGNC 9855
G03	SBH0438896	ENST00000456692.6	RASA1	ENSG00000145715	RAS p21 protein activator 1 Source HGNC Symbol Acc HGNC 9871
G04	SBH1220367	ENST00000418115.6	RHOA	ENSG00000067560	ras homolog family member A Source HGNC Symbol Acc HGNC 667
G05	SBH1220378	ENST00000614987.5	RPS6KA5	ENSG00000100784	ribosomal protein S6 kinase A5 Source HGNC Symbol Acc HGNC 10434
G06	SBH1220379	ENST00000406116.7	RPS6KB1	ENSG00000108443	ribosomal protein S6 kinase B1 Source HGNC Symbol Acc HGNC 10436
G07	SBH0510346	ENST00000368450.5	SHC1	ENSG00000160691	SHC adaptor protein 1 Source HGNC Symbol Acc HGNC 10840
G08	SBH0514958	ENST00000489153.1	SRC	ENSG00000197122	SRC proto-oncogene, non-receptor tyrosine kinase Source HGNC Symbol Acc HGNC 11283
G09	SBH0333289	ENST00000361099.7	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G10	SBH0341614	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G11	SBH0335854	ENST00000345506.8	STAT5A	ENSG00000126561	signal transducer and activator of transcription 5A Source HGNC Symbol Acc HGNC 11366
G12	SBH1220486	ENST00000445888.6	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
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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