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

Human Adherens Junctions

Cat. no. 249950 SBHS-146ZR

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	ACTN1	ACTN2	ACTN3	ACTN4	AJAP1	ANAPC1	ARF6	ARVCF	BAIAP2	CBLL1	CDC27	CDC42
B	CDH1	CDH2	CDH3	CDH4	CDH5	CDSN	CSNK2A1	CSNK2A2	CSNK2B	CTNNA1	CTNNA2	CTNNA3
C	CTNNB1	CTNND1	DLG5	DLL1	DNM1	DNM2	DOCK4	DSC1	DSC2	DSC3	DSG1	DSG2
D	DSG3	DSG4	DSP	EXOC2	FARP2	FLNA	FLNB	HGS	IQGAP1	JUP	LMO7	MAPRE1
E	MAPRE2	AFDN	NME1	NOTCH1	NOTCH2	NOTCH3	NOTCH4	P2RX6	PARD3	PERP	PIK3CG	PKP1
F	PKP2	PKP3	PKP4	PNN	PLPP3	PPL	NECTIN1	NECTIN2	NECTIN3	NECTIN4	RAC1	RALA
G	RHOA	SORBS1	SSX2IP	TJP1	TLN1	TLN2	VCL	VEZT	WAS	WASF1	WASL	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	SBH0252637	ENST00000502692.5	ACTN3	ENSG00000248746	actinin alpha 3 (gene/pseudogene) Source HGNC Symbol Acc HGNC 165
A04	SBH0569283	ENST00000495553.1	ACTN4	ENSG00000130402	actinin alpha 4 Source HGNC Symbol Acc HGNC 166
A05	SBH0418780	ENST00000378190.7	AJAP1	ENSG00000196581	adherens junctions associated protein 1 Source HGNC Symbol Acc HGNC 30801
A06	SBH0117042	ENST00000341068.8	ANAPC1	ENSG00000153107	anaphase promoting complex subunit 1 Source HGNC Symbol Acc HGNC 19988
A07	SBH0524514	ENST00000298316.7	ARF6	ENSG00000165527	ADP ribosylation factor 6 Source HGNC Symbol Acc HGNC 659
A08	SBH0290387	ENST00000495096.5	ARVCF	ENSG00000099889	ARVCF, delta catenin family member Source HGNC Symbol Acc HGNC 728
A09	SBH0654892	ENST00000577097.5	BAIAP2	ENSG00000175866	BAI1 associated protein 2 Source HGNC Symbol Acc HGNC 947
A10	SBH0502448	ENST00000432748.5	CBLL1	ENSG00000105879	Cbl proto-oncogene like 1 Source HGNC Symbol Acc HGNC 21225
A11	SBH0505638	ENST00000570818.5	CDC27	ENSG00000004897	cell division cycle 27 Source HGNC Symbol Acc HGNC 1728
A12	SBH0651826	ENST00000651171.1	CDC42	ENSG00000070831	cell division cycle 42 Source HGNC Symbol Acc HGNC 1736
B01	SBH1219869	ENST00000261769.10	CDH1	ENSG00000039068	cadherin 1 Source HGNC Symbol Acc HGNC 1748
B02	SBH1219870	ENST00000269141.8	CDH2	ENSG00000170558	cadherin 2 Source HGNC Symbol Acc HGNC 1759
B03	SBH0333188	ENST00000264012.9	CDH3	ENSG00000062038	cadherin 3 Source HGNC Symbol Acc HGNC 1762
B04	SBH0469425	ENST00000614565.5	CDH4	ENSG00000179242	cadherin 4 Source HGNC Symbol Acc HGNC 1763
B05	SBH1219871	ENST00000563425.2	CDH5	ENSG00000179776	cadherin 5 Source HGNC Symbol Acc HGNC 1764
B06	SBH0174018	ENST00000376288.3	CDSN	ENSG00000204539	corneodesmosin Source HGNC Symbol Acc HGNC 1802
B07	SBH1219915	ENST00000645187.1	CSNK2A1	ENSG00000101266	casein kinase 2 alpha 1 Source HGNC Symbol Acc HGNC 2457
B08	SBH1219916	ENST00000262506.8	CSNK2A2	ENSG00000070770	casein kinase 2 alpha 2 Source HGNC Symbol Acc HGNC 2459
B09	SBH0606437	ENST00000375885.8	CSNK2B	ENSG00000204435	casein kinase 2 beta Source HGNC Symbol Acc HGNC 2460
B10	SBH1219918	ENST00000521640.5	CTNNA1	ENSG00000044115	catenin alpha 1 Source HGNC Symbol Acc HGNC 2509
B11	SBH0295836	ENST00000361291.8	CTNNA2	ENSG00000066032	catenin alpha 2 Source HGNC Symbol Acc HGNC 2510
B12	SBH0309439	ENST00000433211.7	CTNNA3	ENSG00000183230	catenin alpha 3 Source HGNC Symbol Acc HGNC 2511
C01	SBH0588482	ENST00000396183.7	CTNNB1	ENSG00000168036	catenin beta 1 Source HGNC Symbol Acc HGNC 2514
C02	SBH0018081	ENST00000361391.10	CTNND1	ENSG00000198561	catenin delta 1 Source HGNC Symbol Acc HGNC 2515
C03	SBH0116600	ENST00000484525.1	DLG5	ENSG00000151208	discs large MAGUK scaffold protein 5 Source HGNC Symbol Acc HGNC 2904
C04	SBH0070314	ENST00000630500.1	DLL1	ENSG00000198719	delta like canonical Notch ligand 1 Source HGNC Symbol Acc HGNC 2908
C05	SBH0286018	ENST00000441149.6	DNM1	ENSG00000106976	dynamin 1 Source HGNC Symbol Acc HGNC 2972
C06	SBH0220354	ENST00000408974.8	DNM2	ENSG00000079805	dynamin 2 Source HGNC Symbol Acc HGNC 2974
C07	SBH0381617	ENST00000428053.5	DOCK4	ENSG00000128512	dedicator of cytokinesis 4 Source HGNC Symbol Acc HGNC 19192
C08	SBH0323128	ENST00000257197.7	DSC1	ENSG00000134765	desmocollin 1 Source HGNC Symbol Acc HGNC 3035
C09	SBH1219959	ENST00000280904.10	DSC2	ENSG00000134755	desmocollin 2 Source HGNC Symbol Acc HGNC 3036
C10	SBH0248948	ENST00000434452.5	DSC3	ENSG00000134762	desmocollin 3 Source HGNC Symbol Acc HGNC 3037
		ENST00000462		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0618964	981.2	DSG1	134760	desmoglein 1 Source HGNC Symbol Acc HGNC 3048
C12	SBH0553880	ENST00000261590.13	DSG2	ENSG00000046604	desmoglein 2 Source HGNC Symbol Acc HGNC 3049
D01	SBH0175712	ENST00000257189.5	DSG3	ENSG00000134757	desmoglein 3 Source HGNC Symbol Acc HGNC 3050
D02	SBH0152537	ENST00000308128.8	DSG4	ENSG00000175065	desmoglein 4 Source HGNC Symbol Acc HGNC 21307
D03	SBH1219960	ENST00000379802.8	DSP	ENSG00000096696	desmoplakin Source HGNC Symbol Acc HGNC 3052
D04	SBH0281602	ENST00000230449.9	EXOC2	ENSG00000112685	exocyst complex component 2 Source HGNC Symbol Acc HGNC 24968
D05	SBH0136174	ENST00000627550.2	FARP2	ENSG00000006607	FERM, ARH/RhoGEF and pleckstrin domain protein 2 Source HGNC Symbol Acc HGNC 16460
D06	SBH0353138	ENST00000360319.9	FLNA	ENSG00000196924	filamin A Source HGNC Symbol Acc HGNC 3754
D07	SBH0071893	ENST00000475487.1	FLNB	ENSG00000136068	filamin B Source HGNC Symbol Acc HGNC 3755
D08	SBH1220059	ENST00000329138.9	HGS	ENSG00000185359	hepatocyte growth factor-regulated tyrosine kinase substrate Source HGNC Symbol Acc HGNC 4897
D09	SBH0404179	ENST00000268182.10	IQGAP1	ENSG00000140575	IQ motif containing GTPase activating protein 1 Source HGNC Symbol Acc HGNC 6110
D10	SBH0132937	ENST00000424457.5	JUP	ENSG00000173801	junction plakoglobin Source HGNC Symbol Acc HGNC 6207
D11	SBH0588101	ENST00000341547.8	LMO7	ENSG00000136153	LIM domain 7 Source HGNC Symbol Acc HGNC 6646
D12	SBH0327825	ENST00000375571.6	MAPRE1	ENSG00000101367	microtubule associated protein RP/EB family member 1 Source HGNC Symbol Acc HGNC 6890
E01	SBH0671497	ENST00000538170.6	MAPRE2	ENSG00000166974	microtubule associated protein RP/EB family member 2 Source HGNC Symbol Acc HGNC 6891
E02	SBH0468362	ENST00000447894.6	AFDN	ENSG00000130396	afadin, adherens junction formation factor Source HGNC Symbol Acc HGNC 7137
E03	SBH0310094	ENST00000512768.1	NME1	ENSG00000239672	NME/NM23 nucleoside diphosphate kinase 1 Source HGNC Symbol Acc HGNC 7849
E04	SBH0615258	ENST00000277541.7	NOTCH1	ENSG00000148400	notch 1 Source HGNC Symbol Acc HGNC 7881
E05	SBH0378554	ENST00000256646.7	NOTCH2	ENSG00000134250	notch 2 Source HGNC Symbol Acc HGNC 7882
E06	SBH0513117	ENST00000597756.1	NOTCH3	ENSG00000074181	notch 3 Source HGNC Symbol Acc HGNC 7883
E07	SBH1220273	ENST00000375023.3	NOTCH4	ENSG00000204301	notch 4 Source HGNC Symbol Acc HGNC 7884
E08	SBH0599202	ENST00000442475.5	P2RX6	ENSG00000099957	purinergic receptor P2X 6 Source HGNC Symbol Acc HGNC 8538
E09	SBH0638795	ENST00000374789.8	PARD3	ENSG00000148498	par-3 family cell polarity regulator Source HGNC Symbol Acc HGNC 16051
E10	SBH0135910	ENST00000421351.4	PERP	ENSG00000112378	PERP, TP53 apoptosis effector Source HGNC Symbol Acc HGNC 17637
E11	SBH1220313	ENST00000496166.6	PIK3CG	ENSG00000105851	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma Source HGNC Symbol Acc HGNC 8978
E12	SBH0427954	ENST00000475988.1	PKP1	ENSG00000081277	plakophilin 1 Source HGNC Symbol Acc HGNC 9023
F01	SBH0313506	ENST00000070846.10	PKP2	ENSG00000057294	plakophilin 2 Source HGNC Symbol Acc HGNC 9024
F02	SBH0154281	ENST00000331563.7	PKP3	ENSG00000184363	plakophilin 3 Source HGNC Symbol Acc HGNC 9025
F03	SBH0431863	ENST00000462335.1	PKP4	ENSG00000144283	plakophilin 4 Source HGNC Symbol Acc HGNC 9026
F04	SBH0638466	ENST00000556530.1	PNN	ENSG00000100941	pinin, desmosome associated protein Source HGNC Symbol Acc HGNC 9162
F05	SBH0131913	ENST00000371250.4	PLPP3	ENSG00000162407	phospholipid phosphatase 3 Source HGNC Symbol Acc HGNC 9229
F06	SBH0336606	ENST00000589090.1	PPL	ENSG00000118898	periplakin Source HGNC Symbol Acc HGNC 9273
F07	SBH0498291	ENST00000340882.2	NECTIN1	ENSG00000110400	nectin cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 9706
F08	SBH0016480	ENST00000591581.1	NECTIN2	ENSG00000130202	nectin cell adhesion molecule 2 Source HGNC Symbol Acc HGNC 9707
F09	SBH0388046	ENST00000491525.5	NECTIN3	ENSG00000177707	nectin cell adhesion molecule 3 Source HGNC Symbol Acc HGNC 17664
F10	SBH0167235	ENST00000486694.1	NECTIN4	ENSG00000143217	nectin cell adhesion molecule 4 Source HGNC Symbol Acc HGNC 19688

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220352	ENST00000356142.4	RAC1	ENSG00000136238	Rac family small GTPase 1 Source HGNC Symbol Acc HGNC 9801
F12	SBH0349213	ENST00000436179.1	RALA	ENSG00000006451	RAS like proto-oncogene A Source HGNC Symbol Acc HGNC 9839
G01	SBH1220367	ENST00000418115.6	RHOA	ENSG00000067560	ras homolog family member A Source HGNC Symbol Acc HGNC 667
G02	SBH0605702	ENST00000371241.5	SORBS1	ENSG00000095637	sorbin and SH3 domain containing 1 Source HGNC Symbol Acc HGNC 14565
G03	SBH0619839	ENST00000490476.1	SSX2IP	ENSG00000117155	SSX family member 2 interacting protein Source HGNC Symbol Acc HGNC 16509
G04	SBH0205595	ENST00000346128.10	TJP1	ENSG00000104067	tight junction protein 1 Source HGNC Symbol Acc HGNC 11827
G05	SBH0194513	ENST00000466916.1	TLN1	ENSG00000137076	talin 1 Source HGNC Symbol Acc HGNC 11845
G06	SBH0668621	ENST00000472902.1	TLN2	ENSG00000171914	talin 2 Source HGNC Symbol Acc HGNC 15447
G07	SBH0626257	ENST00000478896.2	VCL	ENSG00000035403	vinculin Source HGNC Symbol Acc HGNC 12665
G08	SBH0617257	ENST00000551792.5	VEZT	ENSG00000028203	vezatin, adherens junctions transmembrane protein Source HGNC Symbol Acc HGNC 18258
G09	SBH0659210	ENST00000483750.5	WAS	ENSG00000015285	Wiskott-Aldrich syndrome Source HGNC Symbol Acc HGNC 12731
G10	SBH0496720	ENST00000392588.5	WASF1	ENSG00000112290	WAS protein family member 1 Source HGNC Symbol Acc HGNC 12732
G11	SBH0637755	ENST00000223023.5	WASL	ENSG00000106299	Wiskott-Aldrich syndrome like Source HGNC Symbol Acc HGNC 12735
G12	SBH0382988	ENST00000436448.1	ZYX	ENSG00000159840	zyxin Source HGNC Symbol Acc HGNC 13200
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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