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

Human Extracellular Matrix & Adhesion Molecules

Cat. no. 249950 SBHS-013ZA

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	ADAMTS1	ADAMTS13	ADAMTS8	CD44	CDH1	CLEC3B	CNTN1	COL11A1	COL12A1	COL14A1	COL15A1	COL16A1
B	COL1A1	COL4A2	COL5A1	COL6A1	COL6A2	COL7A1	COL8A1	CCN2	CTNNA1	CTNNB1	CTNND1	CTNND2
C	ECM1	FN1	HAS1	ICAM1	ITGA1	ITGA2	ITGA3	ITGA4	ITGA5	ITGA6	ITGA7	ITGA8
D	ITGAL	ITGAM	ITGAV	ITGB1	ITGB2	ITGB3	ITGB4	ITGB5	ANOS1	LAMA1	LAMA2	LAMA3
E	LAMB1	LAMB3	LAMC1	MMP1	MMP10	MMP11	MMP12	MMP13	MMP14	MMP15	MMP16	MMP2
F	MMP3	MMP7	MMP8	MMP9	NCAM1	PECAM1	SELE	SELL	SELP	SGCE	SPARC	SPG7
G	SPP1	TGFBI	THBS1	THBS2	THBS3	TIMP1	TIMP2	TIMP3	TNC	VCAM1	VCAN	VTN
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	SBH1219724	ENST00000284984.8	ADAMTS1	ENSG00000154734	ADAM metallopeptidase with thrombospondin type 1 motif 1 Source HGNC Symbol Acc HGNC 217
A02	SBH0109962	ENST00000371929.7	ADAMTS13	ENSG00000160323	ADAM metallopeptidase with thrombospondin type 1 motif 13 Source HGNC Symbol Acc HGNC 1366
A03	SBH1219725	ENST00000257359.7	ADAMTS8	ENSG00000134917	ADAM metallopeptidase with thrombospondin type 1 motif 8 Source HGNC Symbol Acc HGNC 224
A04	SBH0074994	ENST00000428726.7	CD44	ENSG00000026508	CD44 molecule (Indian blood group) Source HGNC Symbol Acc HGNC 1681
A05	SBH1219869	ENST00000261769.10	CDH1	ENSG00000039068	cadherin 1 Source HGNC Symbol Acc HGNC 1748
A06	SBH1219891	ENST00000296130.5	CLEC3B	ENSG00000163815	C-type lectin domain family 3 member B Source HGNC Symbol Acc HGNC 11891
A07	SBH1219894	ENST00000547849.5	CNTN1	ENSG00000018236	contactin 1 Source HGNC Symbol Acc HGNC 2171
A08	SBH0251687	ENST00000358392.6	COL11A1	ENSG00000060718	collagen type XI alpha 1 chain Source HGNC Symbol Acc HGNC 2186
A09	SBH1219895	ENST00000322507.13	COL12A1	ENSG00000111799	collagen type XII alpha 1 chain Source HGNC Symbol Acc HGNC 2188
A10	SBH1219896	ENST00000434620.5	COL14A1	ENSG00000187955	collagen type XIV alpha 1 chain Source HGNC Symbol Acc HGNC 2191
A11	SBH1219897	ENST00000610452.1	COL15A1	ENSG00000204291	collagen type XV alpha 1 chain Source HGNC Symbol Acc HGNC 2192
A12	SBH1219898	ENST00000458715.5	COL16A1	ENSG00000084636	collagen type XVI alpha 1 chain Source HGNC Symbol Acc HGNC 2193
B01	SBH0268763	ENST00000225964.9	COL1A1	ENSG00000108821	collagen type I alpha 1 chain Source HGNC Symbol Acc HGNC 2197
B02	SBH0171200	ENST00000360467.6	COL4A2	ENSG00000134871	collagen type IV alpha 2 chain Source HGNC Symbol Acc HGNC 2203
B03	SBH0069214	ENST00000371817.7	COL5A1	ENSG00000130635	collagen type V alpha 1 chain Source HGNC Symbol Acc HGNC 2209
B04	SBH0493521	ENST00000361866.7	COL6A1	ENSG00000142156	collagen type VI alpha 1 chain Source HGNC Symbol Acc HGNC 2211
B05	SBH0324671	ENST00000300527.8	COL6A2	ENSG00000142173	collagen type VI alpha 2 chain Source HGNC Symbol Acc HGNC 2212
B06	SBH0239339	ENST00000328333.12	COL7A1	ENSG00000114270	collagen type VII alpha 1 chain Source HGNC Symbol Acc HGNC 2214
B07	SBH0261943	ENST00000621757.1	COL8A1	ENSG00000144810	collagen type VIII alpha 1 chain Source HGNC Symbol Acc HGNC 2215
B08	SBH1219917	ENST00000367976.4	CCN2	ENSG00000118523	cellular communication network factor 2 Source HGNC Symbol Acc HGNC 2500
B09	SBH1219918	ENST00000521640.5	CTNNA1	ENSG00000044115	catenin alpha 1 Source HGNC Symbol Acc HGNC 2509
B10	SBH0588482	ENST00000396183.7	CTNNB1	ENSG00000168036	catenin beta 1 Source HGNC Symbol Acc HGNC 2514
B11	SBH0018081	ENST00000361391.10	CTNND1	ENSG00000198561	catenin delta 1 Source HGNC Symbol Acc HGNC 2515
B12	SBH1219920	ENST00000511377.5	CTNND2	ENSG00000169862	catenin delta 2 Source HGNC Symbol Acc HGNC 2516
C01	SBH0013747	ENST00000498579.5	ECM1	ENSG00000143369	extracellular matrix protein 1 Source HGNC Symbol Acc HGNC 3153
C02	SBH1220003	ENST00000354785.9	FN1	ENSG00000115414	fibronectin 1 Source HGNC Symbol Acc HGNC 3778
C03	SBH0428750	ENST00000222115.5	HAS1	ENSG00000105509	hyaluronan synthase 1 Source HGNC Symbol Acc HGNC 4818
C04	SBH1220076	ENST00000264832.8	ICAM1	ENSG00000090339	intercellular adhesion molecule 1 Source HGNC Symbol Acc HGNC 5344
C05	SBH1220129	ENST00000282588.6	ITGA1	ENSG00000213949	integrin subunit alpha 1 Source HGNC Symbol Acc HGNC 6134
C06	SBH1220130	ENST00000296585.10	ITGA2	ENSG00000164171	integrin subunit alpha 2 Source HGNC Symbol Acc HGNC 6137
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
		ENST00000257		ENSG00000	

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	SBH1220135	ENST00000356798.10	ITGAL	ENSG00000005844	integrin subunit alpha L Source HGNC Symbol Acc HGNC 6148
D02	SBH0245852	ENST00000287497.13	ITGAM	ENSG00000169896	integrin subunit alpha M Source HGNC Symbol Acc HGNC 6149
D03	SBH0064907	ENST00000460641.1	ITGAV	ENSG00000138448	integrin subunit alpha V Source HGNC Symbol Acc HGNC 6150
D04	SBH1220136	ENST00000302278.8	ITGB1	ENSG00000150093	integrin subunit beta 1 Source HGNC Symbol Acc HGNC 6153
D05	SBH0032107	ENST00000397857.5	ITGB2	ENSG00000160255	integrin subunit beta 2 Source HGNC Symbol Acc HGNC 6155
D06	SBH1220137	ENST00000559488.5	ITGB3	ENSG00000259207	integrin subunit beta 3 Source HGNC Symbol Acc HGNC 6156
D07	SBH1220138	ENST00000450894.7	ITGB4	ENSG00000132470	integrin subunit beta 4 Source HGNC Symbol Acc HGNC 6158
D08	SBH1220139	ENST00000608657.5	ITGB5	ENSG00000082781	integrin subunit beta 5 Source HGNC Symbol Acc HGNC 6160
D09	SBH1219741	ENST00000262648.8	ANOS1	ENSG00000011201	anosmin 1 Source HGNC Symbol Acc HGNC 6211
D10	SBH1220161	ENST00000389658.4	LAMA1	ENSG00000101680	laminin subunit alpha 1 Source HGNC Symbol Acc HGNC 6481
D11	SBH0323080	ENST00000421865.2	LAMA2	ENSG00000196569	laminin subunit alpha 2 Source HGNC Symbol Acc HGNC 6482
D12	SBH0233577	ENST00000269217.10	LAMA3	ENSG00000053747	laminin subunit alpha 3 Source HGNC Symbol Acc HGNC 6483
E01	SBH1220162	ENST00000222399.11	LAMB1	ENSG00000091136	laminin subunit beta 1 Source HGNC Symbol Acc HGNC 6486
E02	SBH1220163	ENST00000356082.9	LAMB3	ENSG00000196878	laminin subunit beta 3 Source HGNC Symbol Acc HGNC 6490
E03	SBH1220164	ENST00000258341.5	LAMC1	ENSG00000135862	laminin subunit gamma 1 Source HGNC Symbol Acc HGNC 6492
E04	SBH1220215	ENST00000315274.7	MMP1	ENSG00000196611	matrix metallopeptidase 1 Source HGNC Symbol Acc HGNC 7155
E05	SBH1220216	ENST00000279441.9	MMP10	ENSG00000166670	matrix metallopeptidase 10 Source HGNC Symbol Acc HGNC 7156
E06	SBH1220217	ENST00000215743.8	MMP11	ENSG00000099953	matrix metallopeptidase 11 Source HGNC Symbol Acc HGNC 7157
E07	SBH0337769	ENST00000571244.2	MMP12	ENSG00000262406	matrix metallopeptidase 12 Source HGNC Symbol Acc HGNC 7158
E08	SBH1220218	ENST00000615555.4	MMP13	ENSG00000137745	matrix metallopeptidase 13 Source HGNC Symbol Acc HGNC 7159
E09	SBH1220219	ENST00000311852.11	MMP14	ENSG00000157227	matrix metallopeptidase 14 Source HGNC Symbol Acc HGNC 7160
E10	SBH1220220	ENST00000219271.4	MMP15	ENSG00000102996	matrix metallopeptidase 15 Source HGNC Symbol Acc HGNC 7161
E11	SBH1220221	ENST00000522726.1	MMP16	ENSG00000156103	matrix metallopeptidase 16 Source HGNC Symbol Acc HGNC 7162
E12	SBH1220222	ENST00000570308.5	MMP2	ENSG00000087245	matrix metallopeptidase 2 Source HGNC Symbol Acc HGNC 7166
F01	SBH1220223	ENST00000299855.10	MMP3	ENSG00000149968	matrix metallopeptidase 3 Source HGNC Symbol Acc HGNC 7173
F02	SBH1220224	ENST00000260227.5	MMP7	ENSG00000137673	matrix metallopeptidase 7 Source HGNC Symbol Acc HGNC 7174
F03	SBH1220225	ENST00000236826.8	MMP8	ENSG00000118113	matrix metallopeptidase 8 Source HGNC Symbol Acc HGNC 7175
F04	SBH0471278	ENST00000372330.3	MMP9	ENSG00000100985	matrix metallopeptidase 9 Source HGNC Symbol Acc HGNC 7176
F05	SBH1220236	ENST00000618266.4	NCAM1	ENSG00000149294	neural cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 7656
F06	SBH1220299	ENST00000563924.6	PECAM1	ENSG00000261371	platelet and endothelial cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 8823
F07	SBH1220384	ENST00000367774.1	SELE	ENSG00000007908	selectin E Source HGNC Symbol Acc HGNC 10718
F08	SBH0011028	ENST00000236147.5	SELL	ENSG00000188404	selectin L Source HGNC Symbol Acc HGNC 10720
F09	SBH1220385	ENST00000426706.6	SELP	ENSG00000174175	selectin P Source HGNC Symbol Acc HGNC 10721
F10	SBH0126652	ENST00000265735.13	SGCE	ENSG00000127990	sarcoglycan epsilon Source HGNC Symbol Acc HGNC 10808

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH1220420	ENST00000521569.1	SPARC	ENSG00000113140	secreted protein acidic and cysteine rich Source HGNC Symbol Acc HGNC 11219
F12	SBH0442794	ENST00000645818.1	SPG7	ENSG00000197912	SPG7, paraplegin matrix AAA peptidase subunit Source HGNC Symbol Acc HGNC 11237
G01	SBH0180162	ENST00000237623.11	SPP1	ENSG00000118785	secreted phosphoprotein 1 Source HGNC Symbol Acc HGNC 11255
G02	SBH1220445	ENST00000442011.7	TGFBI	ENSG00000120708	transforming growth factor beta induced Source HGNC Symbol Acc HGNC 11771
G03	SBH1220450	ENST00000260356.5	THBS1	ENSG00000137801	thrombospondin 1 Source HGNC Symbol Acc HGNC 11785
G04	SBH0457929	ENST00000366787.7	THBS2	ENSG00000186340	thrombospondin 2 Source HGNC Symbol Acc HGNC 11786
G05	SBH0487353	ENST00000368378.7	THBS3	ENSG00000169231	thrombospondin 3 Source HGNC Symbol Acc HGNC 11787
G06	SBH1220454	ENST00000218388.9	TIMP1	ENSG00000102265	TIMP metallopeptidase inhibitor 1 Source HGNC Symbol Acc HGNC 11820
G07	SBH0450624	ENST00000262768.11	TIMP2	ENSG00000035862	TIMP metallopeptidase inhibitor 2 Source HGNC Symbol Acc HGNC 11821
G08	SBH1220455	ENST00000266085.6	TIMP3	ENSG00000100234	TIMP metallopeptidase inhibitor 3 Source HGNC Symbol Acc HGNC 11822
G09	SBH1220470	ENST00000423613.6	TNC	ENSG00000041982	tenascin C Source HGNC Symbol Acc HGNC 5318
G10	SBH1220515	ENST00000294728.7	VCAM1	ENSG00000162692	vascular cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 12663
G11	SBH1220516	ENST00000343200.9	VCAN	ENSG00000038427	versican Source HGNC Symbol Acc HGNC 2464
G12	SBH1220521	ENST00000226218.9	VTN	ENSG00000109072	vitronectin Source HGNC Symbol Acc HGNC 12724
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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