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

Human Angiogenic Growth Factors

Cat. no. 249950 SBHS-072ZR

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	AGGF1	AMOT	ANG	ANGPT1	ANGPT2	ANGPTL1	ADGRB1	BMP2	BTG1	CCL15	CCL2	CD55
B	CD59	CHGA	COL18A1	COL4A3	CSF3	CXCL10	CXCL11	CXCL12	CXCL13	CXCL14	CXCL2	CXCL3
C	CXCL5	CXCL6	CXCL9	EDIL3	EREG	FGF1	FGF13	FGF2	FGFBP1	VEGFD	FN1	FOXO4
D	FST	GRN	GRP	HGF	IFNA1	IFNB1	IFNG	IL10	IL12A	IL12B	IL17F	IL6
E	CXCL8	KITLG	KLK3	LEP	MDK	NPPB	NPR1	PDGFB	PDGFD	PF4	PGF	PLG
F	PPBP	PRL	PROK1	PTN	RHOB	RNH1	RUNX1	SERPINC1	SERPINE1	SERPINF1	SPINK5	STAB1
G	TGFA	TGFB1	THBS1	TIE1	TIMP1	TIMP2	TIMP3	TNF	TNNI2	TNNI3	TYMP	VEGFA
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	SBH0378235	ENST00000502408.1	AGGF1	ENSG00000164252	angiogenic factor with G-patch and FHA domains 1 Source HGNC Symbol Acc HGNC 24684
A02	SBH0066200	ENST00000304758.5	AMOT	ENSG00000126016	angiomotin Source HGNC Symbol Acc HGNC 17810
A03	SBH0600967	ENST00000336811.10	ANG	ENSG00000214274	angiogenin Source HGNC Symbol Acc HGNC 483
A04	SBH1219739	ENST00000520734.5	ANGPT1	ENSG00000154188	angiopoietin 1 Source HGNC Symbol Acc HGNC 484
A05	SBH1219740	ENST00000338312.10	ANGPT2	ENSG00000091879	angiopoietin 2 Source HGNC Symbol Acc HGNC 485
A06	SBH0592317	ENST00000367629.1	ANGPTL1	ENSG00000116194	angiopoietin like 1 Source HGNC Symbol Acc HGNC 489
A07	SBH0575720	ENST00000323289.6	ADGRB1	ENSG00000181790	adhesion G protein-coupled receptor B1 Source HGNC Symbol Acc HGNC 943
A08	SBH1219802	ENST00000378827.5	BMP2	ENSG00000125845	bone morphogenetic protein 2 Source HGNC Symbol Acc HGNC 1069
A09	SBH0199707	ENST00000552315.1	BTG1	ENSG00000133639	BTG anti-proliferation factor 1 Source HGNC Symbol Acc HGNC 1130
A10	SBH1219831	ENST00000617897.2	CCL15	ENSG00000275718	C-C motif chemokine ligand 15 Source HGNC Symbol Acc HGNC 10613
A11	SBH0228134	ENST00000225831.4	CCL2	ENSG00000108691	C-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 10618
A12	SBH0652558	ENST00000476590.1	CD55	ENSG00000196352	CD55 molecule (Cromer blood group) Source HGNC Symbol Acc HGNC 2665
B01	SBH0434159	ENST00000415002.7	CD59	ENSG00000085063	CD59 molecule (CD59 blood group) Source HGNC Symbol Acc HGNC 1689
B02	SBH0432677	ENST00000334654.4	CHGA	ENSG00000100604	chromogranin A Source HGNC Symbol Acc HGNC 1929
B03	SBH0129117	ENST00000423214.1	COL18A1	ENSG00000182871	collagen type XVIII alpha 1 chain Source HGNC Symbol Acc HGNC 2195
B04	SBH0408970	ENST00000396578.7	COL4A3	ENSG00000169031	collagen type IV alpha 3 chain Source HGNC Symbol Acc HGNC 2204
B05	SBH0378721	ENST00000225474.6	CSF3	ENSG00000108342	colony stimulating factor 3 Source HGNC Symbol Acc HGNC 2438
B06	SBH1219927	ENST00000306602.3	CXCL10	ENSG00000169245	C-X-C motif chemokine ligand 10 Source HGNC Symbol Acc HGNC 10637
B07	SBH0419056	ENST00000306621.7	CXCL11	ENSG00000169248	C-X-C motif chemokine ligand 11 Source HGNC Symbol Acc HGNC 10638
B08	SBH0010818	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
B09	SBH0479528	ENST00000286758.4	CXCL13	ENSG00000156234	C-X-C motif chemokine ligand 13 Source HGNC Symbol Acc HGNC 10639
B10	SBH0421604	ENST00000337225.5	CXCL14	ENSG00000145824	C-X-C motif chemokine ligand 14 Source HGNC Symbol Acc HGNC 10640
B11	SBH1219929	ENST00000508487.3	CXCL2	ENSG00000081041	C-X-C motif chemokine ligand 2 Source HGNC Symbol Acc HGNC 4603
B12	SBH0584763	ENST00000296026.4	CXCL3	ENSG00000163734	C-X-C motif chemokine ligand 3 Source HGNC Symbol Acc HGNC 4604
C01	SBH1219930	ENST00000296027.5	CXCL5	ENSG00000163735	C-X-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10642
C02	SBH1219931	ENST00000226317.10	CXCL6	ENSG00000124875	C-X-C motif chemokine ligand 6 Source HGNC Symbol Acc HGNC 10643
C03	SBH0383348	ENST00000264888.5	CXCL9	ENSG00000138755	C-X-C motif chemokine ligand 9 Source HGNC Symbol Acc HGNC 7098
C04	SBH0259416	ENST00000380138.3	EDIL3	ENSG00000164176	EGF like repeats and discoidin domains 3 Source HGNC Symbol Acc HGNC 3173
C05	SBH0074479	ENST00000244869.3	EREG	ENSG00000124882	epiregulin Source HGNC Symbol Acc HGNC 3443
C06	SBH0534985	ENST00000612258.4	FGF1	ENSG00000113578	fibroblast growth factor 1 Source HGNC Symbol Acc HGNC 3665
C07	SBH0028571	ENST00000441825.8	FGF13	ENSG00000129682	fibroblast growth factor 13 Source HGNC Symbol Acc HGNC 3670
C08	SBH1220000	ENST00000264498.7	FGF2	ENSG00000138685	fibroblast growth factor 2 Source HGNC Symbol Acc HGNC 3676
C09	SBH0619645	ENST00000382333.1	FGFBP1	ENSG00000137440	fibroblast growth factor binding protein 1 Source HGNC Symbol Acc HGNC 19695
C10	SBH1220001	ENST00000297904.4	VEGFD	ENSG00000165197	vascular endothelial growth factor D Source HGNC Symbol Acc HGNC 3708
		ENST00000354		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH1220003	785.9	FN1	115414	fibronectin 1 Source HGNC Symbol Acc HGNC 3778
C12	SBH0263782	ENST00000341558.3	FOXO4	ENSG00000184481	forkhead box O4 Source HGNC Symbol Acc HGNC 7139
D01	SBH0665825	ENST00000396947.7	FST	ENSG00000134363	follistatin Source HGNC Symbol Acc HGNC 3971
D02	SBH0104702	ENST00000589265.5	GRN	ENSG00000030582	granulin precursor Source HGNC Symbol Acc HGNC 4601
D03	SBH0605841	ENST00000529320.2	GRP	ENSG00000134443	gastrin releasing peptide Source HGNC Symbol Acc HGNC 4605
D04	SBH1220058	ENST00000457544.7	HGF	ENSG00000019991	hepatocyte growth factor Source HGNC Symbol Acc HGNC 4893
D05	SBH0388912	ENST00000276927.2	IFNA1	ENSG00000197919	interferon alpha 1 Source HGNC Symbol Acc HGNC 5417
D06	SBH1220089	ENST00000380232.4	IFNB1	ENSG00000171855	interferon beta 1 Source HGNC Symbol Acc HGNC 5434
D07	SBH1220090	ENST00000229135.4	IFNG	ENSG00000111537	interferon gamma Source HGNC Symbol Acc HGNC 5438
D08	SBH1220095	ENST00000423557.1	IL10	ENSG00000136634	interleukin 10 Source HGNC Symbol Acc HGNC 5962
D09	SBH1220098	ENST00000305579.7	IL12A	ENSG00000168811	interleukin 12A Source HGNC Symbol Acc HGNC 5969
D10	SBH1220099	ENST00000231228.2	IL12B	ENSG00000113302	interleukin 12B Source HGNC Symbol Acc HGNC 5970
D11	SBH0137232	ENST00000336123.4	IL17F	ENSG00000112116	interleukin 17F Source HGNC Symbol Acc HGNC 16404
D12	SBH1220111	ENST00000401630.7	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
E01	SBH1219932	ENST00000401931.1	CXCL8	ENSG00000169429	C-X-C motif chemokine ligand 8 Source HGNC Symbol Acc HGNC 6025
E02	SBH0076738	ENST00000644744.1	KITLG	ENSG00000049130	KIT ligand Source HGNC Symbol Acc HGNC 6343
E03	SBH1220152	ENST00000598145.1	KLK3	ENSG00000142515	kallikrein related peptidase 3 Source HGNC Symbol Acc HGNC 6364
E04	SBH1220169	ENST00000308868.5	LEP	ENSG00000174697	leptin Source HGNC Symbol Acc HGNC 6553
E05	SBH0046663	ENST00000395566.8	MDK	ENSG00000110492	midkine Source HGNC Symbol Acc HGNC 6972
E06	SBH1220277	ENST00000376468.4	NPPB	ENSG00000120937	natriuretic peptide B Source HGNC Symbol Acc HGNC 7940
E07	SBH1220278	ENST00000368680.4	NPR1	ENSG00000169418	natriuretic peptide receptor 1 Source HGNC Symbol Acc HGNC 7943
E08	SBH0091370	ENST00000331163.10	PDGFB	ENSG00000100311	platelet derived growth factor subunit B Source HGNC Symbol Acc HGNC 8800
E09	SBH0541851	ENST00000302251.9	PDGFD	ENSG00000170962	platelet derived growth factor D Source HGNC Symbol Acc HGNC 30620
E10	SBH0185751	ENST00000296029.3	PF4	ENSG00000163737	platelet factor 4 Source HGNC Symbol Acc HGNC 8861
E11	SBH1220303	ENST00000238607.10	PGF	ENSG00000119630	placental growth factor Source HGNC Symbol Acc HGNC 8893
E12	SBH0191454	ENST00000308192.13	PLG	ENSG00000122194	plasminogen Source HGNC Symbol Acc HGNC 9071
F01	SBH1220324	ENST00000296028.4	PPBP	ENSG00000163736	pro-platelet basic protein Source HGNC Symbol Acc HGNC 9240
F02	SBH0553464	ENST00000615510.4	PRL	ENSG00000172179	prolactin Source HGNC Symbol Acc HGNC 9445
F03	SBH0126956	ENST00000271331.4	PROK1	ENSG00000143125	prokineticin 1 Source HGNC Symbol Acc HGNC 18454
F04	SBH0080420	ENST00000348225.6	PTN	ENSG00000105894	pleiotrophin Source HGNC Symbol Acc HGNC 9630
F05	SBH0318552	ENST00000272233.5	RHOB	ENSG00000143878	ras homolog family member B Source HGNC Symbol Acc HGNC 668
F06	SBH0081789	ENST00000397614.5	RNH1	ENSG00000023191	ribonuclease/angiogenin inhibitor 1 Source HGNC Symbol Acc HGNC 10074
F07	SBH0384721	ENST00000437180.5	RUNX1	ENSG00000159216	runt related transcription factor 1 Source HGNC Symbol Acc HGNC 10471
F08	SBH0200007	ENST00000617423.4	SERPINC1	ENSG00000117601	serpin family C member 1 Source HGNC Symbol Acc HGNC 775
F09	SBH1220389	ENST00000223095.4	SERPINE1	ENSG00000106366	serpin family E member 1 Source HGNC Symbol Acc HGNC 8583
F10	SBH1220390	ENST00000254722.9	SERPINF1	ENSG00000132386	serpin family F member 1 Source HGNC Symbol Acc HGNC 8824

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0609511	ENST00000359874.7	SPINK5	ENSG00000133710	serine peptidase inhibitor, Kazal type 5 Source HGNC Symbol Acc HGNC 15464
F12	SBH0209017	ENST00000462741.5	STAB1	ENSG00000010327	stabilin 1 Source HGNC Symbol Acc HGNC 18628
G01	SBH1220442	ENST00000445399.5	TGFA	ENSG00000163235	transforming growth factor alpha Source HGNC Symbol Acc HGNC 11765
G02	SBH1220443	ENST00000598758.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G03	SBH1220450	ENST00000260356.5	THBS1	ENSG00000137801	thrombospondin 1 Source HGNC Symbol Acc HGNC 11785
G04	SBH1220453	ENST00000372476.8	TIE1	ENSG00000066056	tyrosine kinase with immunoglobulin like and EGF like domains 1 Source HGNC Symbol Acc HGNC 11809
G05	SBH1220454	ENST00000218388.9	TIMP1	ENSG00000102265	TIMP metallopeptidase inhibitor 1 Source HGNC Symbol Acc HGNC 11820
G06	SBH0450624	ENST00000262768.11	TIMP2	ENSG00000035862	TIMP metallopeptidase inhibitor 2 Source HGNC Symbol Acc HGNC 11821
G07	SBH1220455	ENST00000266085.6	TIMP3	ENSG00000100234	TIMP metallopeptidase inhibitor 3 Source HGNC Symbol Acc HGNC 11822
G08	SBH1220471	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G09	SBH0580534	ENST00000381906.5	TNNI2	ENSG00000130598	troponin I2, fast skeletal type Source HGNC Symbol Acc HGNC 11946
G10	SBH0283529	ENST00000344887.9	TNNI3	ENSG00000129991	troponin I3, cardiac type Source NCBI gene Acc 7137
G11	SBH1220500	ENST00000395681.6	TYMP	ENSG00000025708	thymidine phosphorylase Source HGNC Symbol Acc HGNC 3148
G12	SBH0420322	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
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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