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

Human Female Infertility

Cat. no. 249950 SBHS-164ZA

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	AKT1	ANXA2	APOD	AR	AREG	BAX	BCL2	C2	C3	CALCA	CASP3	CCL5
B	CCNB1	CD55	CDH1	CFD	CLDN4	COMP	CRABP2	CSF1	CTNNB1	CXCL12	DKK1	EGF
C	EGFR	ESR1	ESR2	F3	FBN1	FN1	GADD45A	GAST	GDF15	GPX3	HBEGF	HOXA10
D	HOXA11	ICAM1	IGF1	IGFBP1	IL11	IL15	IL1A	IL1B	IL1R1	IL6	ITGA4	ITGAV
E	ITGB3	KDR	LAMC2	LEP	LIF	LIFR	MAOA	MID1	MKI67	MMP2	MMP7	MMP9
F	MSX1	MUC1	OLFM1	PAEP	PCNA	PGF	PGR	PRL	PTGS1	PTGS2	SELL	SFRP4
G	SOD1	SPP1	STAT3	STMN1	TGFB1	TIMP1	TNF	TNFRSF10B	TP53	VCAM1	VEGFA	WNT2
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	SBH0095396	ENST00000555528.5	AKT1	ENSG00000142208	AKT serine/threonine kinase 1 Source HGNC Symbol Acc HGNC 391
A02	SBH0324193	ENST00000561022.5	ANXA2	ENSG00000182718	annexin A2 Source HGNC Symbol Acc HGNC 537
A03	SBH0082437	ENST00000421243.5	APOD	ENSG00000189058	apolipoprotein D Source HGNC Symbol Acc HGNC 612
A04	SBH0056376	ENST00000374690.8	AR	ENSG00000169083	androgen receptor Source HGNC Symbol Acc HGNC 644
A05	SBH0390048	ENST00000502307.1	AREG	ENSG00000109321	amphiregulin Source HGNC Symbol Acc HGNC 651
A06	SBH1219783	ENST00000391871.4	BAX	ENSG00000087088	BCL2 associated X, apoptosis regulator Source HGNC Symbol Acc HGNC 959
A07	SBH1219786	ENST00000398117.1	BCL2	ENSG00000171791	BCL2, apoptosis regulator Source HGNC Symbol Acc HGNC 990
A08	SBH0558899	ENST00000484636.1	C2	ENSG00000166278	complement C2 Source HGNC Symbol Acc HGNC 1248
A09	SBH0244130	ENST00000245907.10	C3	ENSG00000125730	complement C3 Source HGNC Symbol Acc HGNC 1318
A10	SBH0441635	ENST00000331587.8	CALCA	ENSG00000110680	calcitonin related polypeptide alpha Source HGNC Symbol Acc HGNC 1437
A11	SBH1219824	ENST00000308394.9	CASP3	ENSG00000164305	caspase 3 Source HGNC Symbol Acc HGNC 1504
A12	SBH1219840	ENST00000603197.6	CCL5	ENSG00000271503	C-C motif chemokine ligand 5 Source HGNC Symbol Acc HGNC 10632
B01	SBH1219842	ENST00000256442.10	CCNB1	ENSG00000134057	cyclin B1 Source HGNC Symbol Acc HGNC 1579
B02	SBH0652558	ENST00000476590.1	CD55	ENSG00000196352	CD55 molecule (Cromer blood group) Source HGNC Symbol Acc HGNC 2665
B03	SBH1219869	ENST00000261769.10	CDH1	ENSG00000039068	cadherin 1 Source HGNC Symbol Acc HGNC 1748
B04	SBH0314825	ENST00000592860.2	CFD	ENSG00000197766	complement factor D Source HGNC Symbol Acc HGNC 2771
B05	SBH0232400	ENST00000431918.1	CLDN4	ENSG00000189143	claudin 4 Source HGNC Symbol Acc HGNC 2046
B06	SBH0264616	ENST00000425807.1	COMP	ENSG00000105664	cartilage oligomeric matrix protein Source HGNC Symbol Acc HGNC 2227
B07	SBH0492583	ENST00000368221.1	CRABP2	ENSG00000143320	cellular retinoic acid binding protein 2 Source HGNC Symbol Acc HGNC 2339
B08	SBH1219913	ENST00000420111.6	CSF1	ENSG00000184371	colony stimulating factor 1 Source HGNC Symbol Acc HGNC 2432
B09	SBH0588482	ENST00000396183.7	CTNNB1	ENSG00000168036	catenin beta 1 Source HGNC Symbol Acc HGNC 2514
B10	SBH0010818	ENST00000374429.6	CXCL12	ENSG00000107562	C-X-C motif chemokine ligand 12 Source HGNC Symbol Acc HGNC 10672
B11	SBH0194476	ENST00000373970.4	DKK1	ENSG00000107984	dickkopf WNT signaling pathway inhibitor 1 Source HGNC Symbol Acc HGNC 2891
B12	SBH0321686	ENST00000265171.9	EGF	ENSG00000138798	epidermal growth factor Source HGNC Symbol Acc HGNC 3229
C01	SBH1219970	ENST00000454757.6	EGFR	ENSG00000146648	epidermal growth factor receptor Source HGNC Symbol Acc HGNC 3236
C02	SBH0125383	ENST00000206249.7	ESR1	ENSG00000091831	estrogen receptor 1 Source HGNC Symbol Acc HGNC 3467
C03	SBH0203246	ENST00000554572.5	ESR2	ENSG00000140009	estrogen receptor 2 Source HGNC Symbol Acc HGNC 3468
C04	SBH1219990	ENST00000334047.12	F3	ENSG00000117525	coagulation factor III, tissue factor Source HGNC Symbol Acc HGNC 3541
C05	SBH0441457	ENST00000537463.6	FBN1	ENSG00000166147	fibrillin 1 Source NCBI gene Acc 2200
C06	SBH1220003	ENST00000354785.9	FN1	ENSG00000115414	fibronectin 1 Source HGNC Symbol Acc HGNC 3778
C07	SBH1220019	ENST00000370985.4	GADD45A	ENSG00000116717	growth arrest and DNA damage inducible alpha Source HGNC Symbol Acc HGNC 4095
C08	SBH0519786	ENST00000329402.4	GAST	ENSG00000184502	gastrin Source HGNC Symbol Acc HGNC 4164
C09	SBH0038583	ENST00000604609.2	GDF15	ENSG00000130513	growth differentiation factor 15 Source HGNC Symbol Acc HGNC 30142
C10	SBH1220034	ENST00000521650.5	GPX3	ENSG00000211445	glutathione peroxidase 3 Source HGNC Symbol Acc HGNC 4555
		ENST00000230		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0028682	990.7	HBEGF	113070	heparin binding EGF like growth factor Source HGNC Symbol Acc HGNC 3059
C12	SBH0356807	ENST00000613671.1	HOXA10	ENSG00000253293	homeobox A10 Source HGNC Symbol Acc HGNC 5100
D01	SBH0152177	ENST00000006015.3	HOXA11	ENSG00000005073	homeobox A11 Source HGNC Symbol Acc HGNC 5101
D02	SBH1220076	ENST00000264832.8	ICAM1	ENSG00000090339	intercellular adhesion molecule 1 Source HGNC Symbol Acc HGNC 5344
D03	SBH1220091	ENST00000337514.10	IGF1	ENSG00000017427	insulin like growth factor 1 Source HGNC Symbol Acc HGNC 5464
D04	SBH0586817	ENST00000468955.1	IGFBP1	ENSG00000146678	insulin like growth factor binding protein 1 Source HGNC Symbol Acc HGNC 5469
D05	SBH1220097	ENST00000585513.1	IL11	ENSG00000095752	interleukin 11 Source HGNC Symbol Acc HGNC 5966
D06	SBH1220101	ENST00000296545.11	IL15	ENSG00000164136	interleukin 15 Source HGNC Symbol Acc HGNC 5977
D07	SBH0663647	ENST00000263339.3	IL1A	ENSG00000115008	interleukin 1 alpha Source HGNC Symbol Acc HGNC 5991
D08	SBH0079231	ENST00000263341.6	IL1B	ENSG00000125538	interleukin 1 beta Source HGNC Symbol Acc HGNC 5992
D09	SBH1220104	ENST00000424272.5	IL1R1	ENSG00000115594	interleukin 1 receptor type 1 Source HGNC Symbol Acc HGNC 5993
D10	SBH1220111	ENST00000401630.7	IL6	ENSG00000136244	interleukin 6 Source HGNC Symbol Acc HGNC 6018
D11	SBH1220132	ENST00000397033.7	ITGA4	ENSG00000115232	integrin subunit alpha 4 Source HGNC Symbol Acc HGNC 6140
D12	SBH0064907	ENST00000460641.1	ITGAV	ENSG00000138448	integrin subunit alpha V Source HGNC Symbol Acc HGNC 6150
E01	SBH1220137	ENST00000559488.5	ITGB3	ENSG00000259207	integrin subunit beta 3 Source HGNC Symbol Acc HGNC 6156
E02	SBH0020198	ENST00000263923.5	KDR	ENSG00000128052	kinase insert domain receptor Source HGNC Symbol Acc HGNC 6307
E03	SBH0538512	ENST00000493293.5	LAMC2	ENSG00000058085	laminin subunit gamma 2 Source HGNC Symbol Acc HGNC 6493
E04	SBH1220169	ENST00000308868.5	LEP	ENSG00000174697	leptin Source HGNC Symbol Acc HGNC 6553
E05	SBH1220172	ENST00000249075.4	LIF	ENSG00000128342	LIF, interleukin 6 family cytokine Source HGNC Symbol Acc HGNC 6596
E06	SBH0373775	ENST00000506990.5	LIFR	ENSG00000113594	LIF receptor alpha Source HGNC Symbol Acc HGNC 6597
E07	SBH0491214	ENST00000542639.5	MAOA	ENSG00000189221	monoamine oxidase A Source HGNC Symbol Acc HGNC 6833
E08	SBH0567196	ENST00000610939.1	MID1	ENSG00000101871	midline 1 Source HGNC Symbol Acc HGNC 7095
E09	SBH1220213	ENST00000368654.8	MKI67	ENSG00000148773	marker of proliferation Ki-67 Source HGNC Symbol Acc HGNC 7107
E10	SBH1220222	ENST00000570308.5	MMP2	ENSG00000087245	matrix metallopeptidase 2 Source HGNC Symbol Acc HGNC 7166
E11	SBH1220224	ENST00000260227.5	MMP7	ENSG00000137673	matrix metallopeptidase 7 Source HGNC Symbol Acc HGNC 7174
E12	SBH0471278	ENST00000372330.3	MMP9	ENSG00000100985	matrix metallopeptidase 9 Source HGNC Symbol Acc HGNC 7176
F01	SBH0065684	ENST00000382723.5	MSX1	ENSG00000163132	msh homeobox 1 Source HGNC Symbol Acc HGNC 7391
F02	SBH0571256	ENST00000438413.5	MUC1	ENSG00000185499	mucin 1, cell surface associated Source HGNC Symbol Acc HGNC 7508
F03	SBH0515840	ENST00000277415.15	OLFM1	ENSG00000130558	olfactomedin 1 Source HGNC Symbol Acc HGNC 17187
F04	SBH0065433	ENST00000611414.4	PAEP	ENSG00000122133	progestagen associated endometrial protein Source HGNC Symbol Acc HGNC 8573
F05	SBH0251688	ENST00000379160.3	PCNA	ENSG00000132646	proliferating cell nuclear antigen Source HGNC Symbol Acc HGNC 8729
F06	SBH1220303	ENST00000238607.10	PGF	ENSG00000119630	placental growth factor Source HGNC Symbol Acc HGNC 8893
F07	SBH0508179	ENST00000534780.5	PGR	ENSG00000082175	progesterone receptor Source HGNC Symbol Acc HGNC 8910
F08	SBH0553464	ENST00000615510.4	PRL	ENSG00000172179	prolactin Source HGNC Symbol Acc HGNC 9445
F09	SBH1220343	ENST00000540753.6	PTGS1	ENSG00000095303	prostaglandin-endoperoxide synthase 1 Source HGNC Symbol Acc HGNC 9604
F10	SBH1220344	ENST00000367468.10	PTGS2	ENSG00000073756	prostaglandin-endoperoxide synthase 2 Source HGNC Symbol Acc HGNC 9605

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0011028	ENST00000236147.5	SELL	ENSG00000188404	selectin L Source HGNC Symbol Acc HGNC 10720
F12	SBH1220395	ENST00000436072.7	SFRP4	ENSG00000106483	secreted frizzled related protein 4 Source HGNC Symbol Acc HGNC 10778
G01	SBH0278498	ENST00000270142.10	SOD1	ENSG00000142168	superoxide dismutase 1 Source HGNC Symbol Acc HGNC 11179
G02	SBH0180162	ENST00000237623.11	SPP1	ENSG00000118785	secreted phosphoprotein 1 Source HGNC Symbol Acc HGNC 11255
G03	SBH0341614	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G04	SBH1220427	ENST00000426559.6	STMN1	ENSG00000117632	stathmin 1 Source HGNC Symbol Acc HGNC 6510
G05	SBH1220443	ENST00000598758.5	TGFB1	ENSG00000105329	transforming growth factor beta 1 Source NCBI gene Acc 7040
G06	SBH1220454	ENST00000218388.9	TIMP1	ENSG00000102265	TIMP metallopeptidase inhibitor 1 Source HGNC Symbol Acc HGNC 11820
G07	SBH1220471	ENST00000449264.3	TNF	ENSG00000232810	tumor necrosis factor Source HGNC Symbol Acc HGNC 11892
G08	SBH1220473	ENST00000347739.3	TNFRSF10B	ENSG00000120889	TNF receptor superfamily member 10b Source HGNC Symbol Acc HGNC 11905
G09	SBH1220486	ENST00000445888.6	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G10	SBH1220515	ENST00000294728.7	VCAM1	ENSG00000162692	vascular cell adhesion molecule 1 Source HGNC Symbol Acc HGNC 12663
G11	SBH0420322	ENST00000425836.6	VEGFA	ENSG00000112715	vascular endothelial growth factor A Source HGNC Symbol Acc HGNC 12680
G12	SBH0301163	ENST00000265441.7	WNT2	ENSG00000105989	Wnt family member 2 Source HGNC Symbol Acc HGNC 12780
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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