

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

Human Aging

Cat. no. 249950 SBHS-178ZR

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	ANGEL2	ANXA3	ANXA5	ARID1A	ARL6IP6	BUB1B	C1QA	C1QB	C1QC	C1S	C3	C3AR1
B	C5AR1	CALB1	CASP1	CCR1	CD14	CD163	CDKN1C	CFH	CLU	COL1A1	COL3A1	CX3CL1
C	CXCL16	ELAVL1	ELP3	EML1	EP300	FBXL16	FCER1G	FCGBP	FCGR1A	FCGR2A	FCGR3B	FOXO1
D	GFAP	GSTA1	HSF1	JAKMIP3	LMNA	LMNB1	LMNB2	LSM5	LTF	LYZ	MBP	MRPL43
E	NDUFB11	PANX1	PDCD6	PHF3	POLRMT	POT1	RAP1A	RNF144B	S100A8	S100A9	SCN2B	SIRT1
F	SIRT3	SIRT6	SMAD2	SNAP23	TERF1	TERF2	TFAM	TFB1M	TFB2M	TINF2	TLR2	TLR4
G	TMEM135	TMEM33	TOLLIP	TPP1	TXNIP	VPS13C	VWASA	WRN	ZBTB10	ZFR	ZMPSTE24	ZNF25
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	SBH0360251	ENST00000473303.1	ANGEL2	ENSG00000174606	angel homolog 2 Source HGNC Symbol Acc HGNC 30534
A02	SBH0659579	ENST00000508214.1	ANXA3	ENSG00000138772	annexin A3 Source HGNC Symbol Acc HGNC 541
A03	SBH1219743	ENST00000501272.6	ANXA5	ENSG00000164111	annexin A5 Source HGNC Symbol Acc HGNC 543
A04	SBH0551257	ENST00000637465.1	ARID1A	ENSG00000117713	AT-rich interaction domain 1A Source HGNC Symbol Acc HGNC 11110
A05	SBH0147999	ENST00000425034.5	ARL6IP6	ENSG00000177917	ADP ribosylation factor like GTPase 6 interacting protein 6 Source HGNC Symbol Acc HGNC 24048
A06	SBH0302283	ENST00000559733.5	BUB1B	ENSG00000156970	BUB1 mitotic checkpoint serine/threonine kinase B Source HGNC Symbol Acc HGNC 1149
A07	SBH0450368	ENST00000402322.1	C1QA	ENSG00000173372	complement C1q A chain Source HGNC Symbol Acc HGNC 1241
A08	SBH0135196	ENST00000432749.6	C1QB	ENSG00000173369	complement C1q B chain Source HGNC Symbol Acc HGNC 1242
A09	SBH0077344	ENST00000374639.7	C1QC	ENSG00000159189	complement C1q C chain Source HGNC Symbol Acc HGNC 1245
A10	SBH0640203	ENST00000328916.7	C1S	ENSG00000182326	complement C1s Source HGNC Symbol Acc HGNC 1247
A11	SBH0244130	ENST00000245907.10	C3	ENSG00000125730	complement C3 Source HGNC Symbol Acc HGNC 1318
A12	SBH0366969	ENST00000307637.4	C3AR1	ENSG00000171860	complement C3a receptor 1 Source HGNC Symbol Acc HGNC 1319
B01	SBH0627132	ENST00000355085.4	C5AR1	ENSG00000197405	complement C5a receptor 1 Source HGNC Symbol Acc HGNC 1338
B02	SBH0055162	ENST00000265431.7	CALB1	ENSG00000104327	calbindin 1 Source HGNC Symbol Acc HGNC 1434
B03	SBH0054226	ENST00000526568.5	CASP1	ENSG00000137752	caspase 1 Source HGNC Symbol Acc HGNC 1499
B04	SBH1219851	ENST00000296140.4	CCR1	ENSG00000163823	C-C motif chemokine receptor 1 Source HGNC Symbol Acc HGNC 1602
B05	SBH1219857	ENST00000512545.1	CD14	ENSG00000170458	CD14 molecule Source HGNC Symbol Acc HGNC 1628
B06	SBH0054623	ENST00000359156.8	CD163	ENSG00000177575	CD163 molecule Source HGNC Symbol Acc HGNC 1631
B07	SBH0517353	ENST00000440480.7	CDKN1C	ENSG00000129757	cyclin dependent kinase inhibitor 1C Source HGNC Symbol Acc HGNC 1786
B08	SBH0358788	ENST00000496761.1	CFH	ENSG00000000971	complement factor H Source HGNC Symbol Acc HGNC 4883
B09	SBH0298251	ENST00000523500.5	CLU	ENSG00000120885	clusterin Source HGNC Symbol Acc HGNC 2095
B10	SBH0268763	ENST00000225964.9	COL1A1	ENSG00000108821	collagen type I alpha 1 chain Source HGNC Symbol Acc HGNC 2197
B11	SBH0521348	ENST00000304636.7	COL3A1	ENSG00000168542	collagen type III alpha 1 chain Source HGNC Symbol Acc HGNC 2201
B12	SBH1219926	ENST00000563383.1	CX3CL1	ENSG00000006210	C-X3-C motif chemokine ligand 1 Source HGNC Symbol Acc HGNC 10647
C01	SBH1219928	ENST00000293778.11	CXCL16	ENSG00000161921	C-X-C motif chemokine ligand 16 Source HGNC Symbol Acc HGNC 16642
C02	SBH0538096	ENST00000593807.1	ELAVL1	ENSG00000066044	ELAV like RNA binding protein 1 Source HGNC Symbol Acc HGNC 3312
C03	SBH0547309	ENST00000518112.5	ELP3	ENSG00000134014	elongator acetyltransferase complex subunit 3 Source HGNC Symbol Acc HGNC 20696
C04	SBH0498847	ENST00000556199.1	EML1	ENSG00000066629	EMAP like 1 Source HGNC Symbol Acc HGNC 3330
C05	SBH1219977	ENST00000263253.9	EP300	ENSG00000100393	E1A binding protein p300 Source HGNC Symbol Acc HGNC 3373
C06	SBH0585322	ENST00000562585.1	FBXL16	ENSG00000127585	F-box and leucine rich repeat protein 16 Source HGNC Symbol Acc HGNC 14150
C07	SBH0217739	ENST00000490414.1	FCER1G	ENSG00000158869	Fc fragment of IgE receptor Ig Source HGNC Symbol Acc HGNC 3611
C08	SBH0297370	ENST00000616721.5	FCGBP	ENSG00000275395	Fc fragment of IgG binding protein Source HGNC Symbol Acc HGNC 13572
C09	SBH0043666	ENST00000444948.5	FCGR1A	ENSG00000150337	Fc fragment of IgG receptor Ia Source HGNC Symbol Acc HGNC 3613
C10	SBH0643988	ENST00000491841.1	FCGR2A	ENSG00000143226	Fc fragment of IgG receptor IIa Source HGNC Symbol Acc HGNC 3616
		ENST00000421		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0163655	702.3	FCGR3B	162747	Fc fragment of IgG receptor IIIb Source HGNC Symbol Acc HGNC 3620
C12	SBH0594989	ENST00000379561.6	FOXO1	ENSG00000150907	forkhead box O1 Source HGNC Symbol Acc HGNC 3819
D01	SBH0011470	ENST00000639277.1	GFAP	ENSG00000131095	glial fibrillary acidic protein Source HGNC Symbol Acc HGNC 4235
D02	SBH0553573	ENST00000476213.1	GSTA1	ENSG00000243955	glutathione S-transferase alpha 1 Source HGNC Symbol Acc HGNC 4626
D03	SBH0562949	ENST00000528199.5	HSF1	ENSG00000185122	heat shock transcription factor 1 Source HGNC Symbol Acc HGNC 5224
D04	SBH0499309	ENST00000298622.8	JAKMIP3	ENSG00000188385	Janus kinase and microtubule interacting protein 3 Source HGNC Symbol Acc HGNC 23523
D05	SBH0543296	ENST00000368299.7	LMNA	ENSG00000160789	lamin A/C Source HGNC Symbol Acc HGNC 6636
D06	SBH0405376	ENST00000261366.10	LMNB1	ENSG00000113368	lamin B1 Source HGNC Symbol Acc HGNC 6637
D07	SBH0329533	ENST00000532465.1	LMNB2	ENSG00000176619	lamin B2 Source HGNC Symbol Acc HGNC 6638
D08	SBH0125829	ENST00000409952.3	LSM5	ENSG00000106355	LSM5 homolog, U6 small nuclear RNA and mRNA degradation associated Source HGNC Symbol Acc HGNC 17162
D09	SBH0051832	ENST00000426532.6	LTF	ENSG00000012223	lactotransferrin Source HGNC Symbol Acc HGNC 6720
D10	SBH1220184	ENST00000261267.6	LYZ	ENSG00000090382	lysozyme Source HGNC Symbol Acc HGNC 6740
D11	SBH0200334	ENST00000527975.5	MBP	ENSG00000197971	myelin basic protein Source HGNC Symbol Acc HGNC 6925
D12	SBH0246119	ENST00000318325.6	MRPL43	ENSG00000059590	mitochondrial ribosomal protein L43 Source HGNC Symbol Acc HGNC 14517
E01	SBH0203328	ENST00000377811.3	NDUFB11	ENSG00000147123	NADH ubiquinone oxidoreductase subunit B11 Source HGNC Symbol Acc HGNC 20372
E02	SBH0342348	ENST00000436171.2	PANX1	ENSG00000110218	pannexin 1 Source HGNC Symbol Acc HGNC 8599
E03	SBH0054997	ENST00000511482.1	PDCD6	ENSG00000249915	programmed cell death 6 Source HGNC Symbol Acc HGNC 8765
E04	SBH0306630	ENST00000393387.5	PHF3	ENSG00000118482	PHD finger protein 3 Source HGNC Symbol Acc HGNC 8921
E05	SBH0648824	ENST00000590573.4	POLRMT	ENSG00000099821	RNA polymerase mitochondrial Source HGNC Symbol Acc HGNC 9200
E06	SBH0487114	ENST00000609106.5	POT1	ENSG00000128513	protection of telomeres 1 Source HGNC Symbol Acc HGNC 17284
E07	SBH0176409	ENST00000356415.5	RAP1A	ENSG00000116473	RAP1A, member of RAS oncogene family Source HGNC Symbol Acc HGNC 9855
E08	SBH0420690	ENST00000486622.1	RNF144B	ENSG00000137393	ring finger protein 144B Source HGNC Symbol Acc HGNC 21578
E09	SBH0133006	ENST00000477801.1	S100A8	ENSG00000143546	S100 calcium binding protein A8 Source HGNC Symbol Acc HGNC 10498
E10	SBH0159686	ENST00000368738.4	S100A9	ENSG00000163220	S100 calcium binding protein A9 Source HGNC Symbol Acc HGNC 10499
E11	SBH0126163	ENST00000278947.5	SCN2B	ENSG00000149575	sodium voltage-gated channel beta subunit 2 Source HGNC Symbol Acc HGNC 10589
E12	SBH1220398	ENST00000212015.11	SIRT1	ENSG00000096717	sirtuin 1 Source HGNC Symbol Acc HGNC 14929
F01	SBH0143349	ENST00000528702.5	SIRT3	ENSG00000142082	sirtuin 3 Source HGNC Symbol Acc HGNC 14931
F02	SBH0167793	ENST00000601571.1	SIRT6	ENSG00000077463	sirtuin 6 Source HGNC Symbol Acc HGNC 14934
F03	SBH1220405	ENST00000262160.11	SMAD2	ENSG00000175387	SMAD family member 2 Source HGNC Symbol Acc HGNC 6768
F04	SBH0480677	ENST00000349777.5	SNAP23	ENSG00000092531	synaptosome associated protein 23 Source HGNC Symbol Acc HGNC 11131
F05	SBH1220439	ENST00000276603.10	TERF1	ENSG00000147601	telomeric repeat binding factor 1 Source HGNC Symbol Acc HGNC 11728
F06	SBH0165409	ENST00000567296.6	TERF2	ENSG00000132604	telomeric repeat binding factor 2 Source HGNC Symbol Acc HGNC 11729
F07	SBH0049176	ENST00000373895.7	TFAM	ENSG00000108064	transcription factor A, mitochondrial Source HGNC Symbol Acc HGNC 11741
F08	SBH0356482	ENST00000367166.5	TFB1M	ENSG00000029639	transcription factor B1, mitochondrial Source HGNC Symbol Acc HGNC 17037
F09	SBH0628281	ENST00000366514.5	TFB2M	ENSG00000162851	transcription factor B2, mitochondrial Source HGNC Symbol Acc HGNC 18559
F10	SBH0207369	ENST00000399423.8	TINF2	ENSG00000092330	TERF1 interacting nuclear factor 2 Source HGNC Symbol Acc HGNC 11824

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0671922	ENST00000642700.1	TLR2	ENSG00000137462	toll like receptor 2 Source HGNC Symbol Acc HGNC 11848
F12	SBH0092782	ENST00000355622.8	TLR4	ENSG00000136869	toll like receptor 4 Source HGNC Symbol Acc HGNC 11850
G01	SBH0262503	ENST00000531643.1	TMEM135	ENSG00000166575	transmembrane protein 135 Source HGNC Symbol Acc HGNC 26167
G02	SBH0141039	ENST00000506794.1	TMEM33	ENSG00000109133	transmembrane protein 33 Source HGNC Symbol Acc HGNC 25541
G03	SBH1220484	ENST00000530541.1	TOLLIP	ENSG00000078902	toll interacting protein Source HGNC Symbol Acc HGNC 16476
G04	SBH0302755	ENST00000428886.7	TPP1	ENSG00000166340	tripeptidyl peptidase 1 Source HGNC Symbol Acc HGNC 2073
G05	SBH0485667	ENST00000486597.1	TXNIP	ENSG00000265972	thioredoxin interacting protein Source HGNC Symbol Acc HGNC 16952
G06	SBH0076506	ENST00000561258.1	VPS13C	ENSG00000129003	vacuolar protein sorting 13 homolog C Source HGNC Symbol Acc HGNC 23594
G07	SBH0012497	ENST00000449321.5	VWA5A	ENSG00000110002	von Willebrand factor A domain containing 5A Source HGNC Symbol Acc HGNC 6658
G08	SBH0387130	ENST00000650667.1	WRN	ENSG00000165392	Werner syndrome RecQ like helicase Source HGNC Symbol Acc HGNC 12791
G09	SBH0495750	ENST00000426744.5	ZBTB10	ENSG00000205189	zinc finger and BTB domain containing 10 Source HGNC Symbol Acc HGNC 30953
G10	SBH0518928	ENST00000507465.1	ZFR	ENSG00000056097	zinc finger RNA binding protein Source HGNC Symbol Acc HGNC 17277
G11	SBH0390764	ENST00000372759.4	ZMPSTE24	ENSG00000084073	zinc metalloproteinase STE24 Source HGNC Symbol Acc HGNC 12877
G12	SBH0055284	ENST00000467975.2	ZNF25	ENSG00000175395	zinc finger protein 25 Source HGNC Symbol Acc HGNC 13043
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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