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

Human Nuclear Receptors & Coregulators

Cat. no. 249950 SBHS-056ZR

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	AHR	AR	ARNT	BRD8	COPS2	CREBBP	DDX5	ESR1	ESR2	ESRRA	ESRRB	ESRRG
B	HDAC1	HDAC2	HDAC3	HDAC4	HDAC5	HDAC6	HDAC7	HNF4A	ITGB3BP	KAT2B	KAT5	MED1
C	MED12	MED13	MED14	MED16	MED17	MED24	MED4	MTA1	NCOA1	NCOA2	NCOA3	NCOA4
D	NCOA6	NCOR1	NCOR2	NFKB2	NONO	NOTCH2	NR0B1	NR0B2	NR1D1	NR1D2	NR1H2	NR1H3
E	NR1H4	NR1I2	NR1I3	NR2C1	NR2C2	NR2E3	NR2F1	NR2F2	NR2F6	NR3C1	NR3C2	NR4A1
F	NR5A1	NR6A1	NRIP1	PGR	PPARA	PPARD	PPARG	PPARGC1A	PPARGC1B	PSMC3	PSMC5	RARA
G	RARB	RARG	RBPJ	RORA	RXRA	RXRB	RXRG	TGS1	THRA	THRB	TRIP4	VDR
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	SBH0503529	ENST00000492120.1	AHR	ENSG00000106546	aryl hydrocarbon receptor Source HGNC Symbol Acc HGNC 348
A02	SBH0056376	ENST00000374690.8	AR	ENSG00000169083	androgen receptor Source HGNC Symbol Acc HGNC 644
A03	SBH1219751	ENST00000358595.10	ARNT	ENSG00000143437	aryl hydrocarbon receptor nuclear translocator Source HGNC Symbol Acc HGNC 700
A04	SBH0389222	ENST00000441656.5	BRD8	ENSG00000112983	bromodomain containing 8 Source HGNC Symbol Acc HGNC 19874
A05	SBH0611967	ENST00000542928.5	COPS2	ENSG00000166200	COP9 signalosome subunit 2 Source HGNC Symbol Acc HGNC 30747
A06	SBH0411189	ENST00000571826.5	CREBBP	ENSG00000005339	CREB binding protein Source HGNC Symbol Acc HGNC 2348
A07	SBH0364739	ENST00000578400.5	DDX5	ENSG00000108654	DEAD-box helicase 5 Source HGNC Symbol Acc HGNC 2746
A08	SBH0125383	ENST00000206249.7	ESR1	ENSG00000091831	estrogen receptor 1 Source HGNC Symbol Acc HGNC 3467
A09	SBH0203246	ENST00000554572.5	ESR2	ENSG00000140009	estrogen receptor 2 Source HGNC Symbol Acc HGNC 3468
A10	SBH0167638	ENST00000405666.5	ESRRA	ENSG00000173153	estrogen related receptor alpha Source HGNC Symbol Acc HGNC 3471
A11	SBH0036853	ENST00000505752.6	ESRRB	ENSG00000119715	estrogen related receptor beta Source HGNC Symbol Acc HGNC 3473
A12	SBH0290150	ENST00000366937.5	ESRRG	ENSG00000196482	estrogen related receptor gamma Source HGNC Symbol Acc HGNC 3474
B01	SBH0527067	ENST00000472928.5	HDAC1	ENSG00000116478	histone deacetylase 1 Source HGNC Symbol Acc HGNC 4852
B02	SBH1220050	ENST00000519108.5	HDAC2	ENSG00000196591	histone deacetylase 2 Source HGNC Symbol Acc HGNC 4853
B03	SBH1220051	ENST00000305264.8	HDAC3	ENSG00000171720	histone deacetylase 3 Source HGNC Symbol Acc HGNC 4854
B04	SBH0538846	ENST00000345617.7	HDAC4	ENSG00000068024	histone deacetylase 4 Source HGNC Symbol Acc HGNC 14063
B05	SBH0019397	ENST00000586802.5	HDAC5	ENSG00000108840	histone deacetylase 5 Source HGNC Symbol Acc HGNC 14068
B06	SBH0370702	ENST00000334136.10	HDAC6	ENSG00000094631	histone deacetylase 6 Source HGNC Symbol Acc HGNC 14064
B07	SBH0071727	ENST00000354334.7	HDAC7	ENSG00000061273	histone deacetylase 7 Source HGNC Symbol Acc HGNC 14067
B08	SBH0483648	ENST00000609795.5	HNF4A	ENSG00000101076	hepatocyte nuclear factor 4 alpha Source HGNC Symbol Acc HGNC 5024
B09	SBH0309397	ENST00000489099.5	ITGB3BP	ENSG00000142856	integrin subunit beta 3 binding protein Source HGNC Symbol Acc HGNC 6157
B10	SBH1220145	ENST00000263754.5	KAT2B	ENSG00000114166	lysine acetyltransferase 2B Source HGNC Symbol Acc HGNC 8638
B11	SBH0012827	ENST00000377046.7	KAT5	ENSG00000172977	lysine acetyltransferase 5 Source HGNC Symbol Acc HGNC 5275
B12	SBH0151089	ENST00000584308.1	MED1	ENSG00000125686	mediator complex subunit 1 Source HGNC Symbol Acc HGNC 9234
C01	SBH0507751	ENST00000444034.1	MED12	ENSG00000184634	mediator complex subunit 12 Source HGNC Symbol Acc HGNC 11957
C02	SBH0262294	ENST00000397786.7	MED13	ENSG00000108510	mediator complex subunit 13 Source HGNC Symbol Acc HGNC 22474
C03	SBH0646114	ENST00000463072.1	MED14	ENSG00000180182	mediator complex subunit 14 Source HGNC Symbol Acc HGNC 2370
C04	SBH0000166	ENST00000312090.10	MED16	ENSG00000175221	mediator complex subunit 16 Source HGNC Symbol Acc HGNC 17556
C05	SBH0071109	ENST00000640451.1	MED17	ENSG00000042429	mediator complex subunit 17 Source HGNC Symbol Acc HGNC 2375
C06	SBH0412567	ENST00000394128.7	MED24	ENSG00000008838	mediator complex subunit 24 Source HGNC Symbol Acc HGNC 22963
C07	SBH0269608	ENST00000378586.5	MED4	ENSG00000136146	mediator complex subunit 4 Source HGNC Symbol Acc HGNC 17903
C08	SBH0256481	ENST00000435036.6	MTA1	ENSG00000182979	metastasis associated 1 Source HGNC Symbol Acc HGNC 7410
C09	SBH0605604	ENST00000348332.7	NCOA1	ENSG00000084676	nuclear receptor coactivator 1 Source HGNC Symbol Acc HGNC 7668
C10	SBH0194409	ENST00000518363.2	NCOA2	ENSG00000140396	nuclear receptor coactivator 2 Source HGNC Symbol Acc HGNC 7669
		ENST00000371		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH1220237	998.8	NCOA3	124151	nuclear receptor coactivator 3 Source HGNC Symbol Acc HGNC 7670
C12	SBH0348128	ENST00000580070.5	NCOA4	ENSG00000266412	nuclear receptor coactivator 4 Source HGNC Symbol Acc HGNC 7671
D01	SBH1220238	ENST00000612493.4	NCOA6	ENSG00000198646	nuclear receptor coactivator 6 Source HGNC Symbol Acc HGNC 15936
D02	SBH0050293	ENST00000411510.5	NCOR1	ENSG00000141027	nuclear receptor corepressor 1 Source HGNC Symbol Acc HGNC 7672
D03	SBH0634597	ENST00000356219.7	NCOR2	ENSG00000196498	nuclear receptor corepressor 2 Source HGNC Symbol Acc HGNC 7673
D04	SBH1220265	ENST00000652277.1	NFKB2	ENSG00000077150	nuclear factor kappa B subunit 2 Source HGNC Symbol Acc HGNC 7795
D05	SBH1225371	ENST00000418921.1	NONO	ENSG00000147140	non-POU domain containing octamer binding Source HGNC Symbol Acc HGNC 7871
D06	SBH0378554	ENST00000256646.7	NOTCH2	ENSG00000134250	notch 2 Source HGNC Symbol Acc HGNC 7882
D07	SBH0152990	ENST00000378963.1	NR0B1	ENSG00000169297	nuclear receptor subfamily 0 group B member 1 Source HGNC Symbol Acc HGNC 7960
D08	SBH0031318	ENST00000254227.4	NR0B2	ENSG00000131910	nuclear receptor subfamily 0 group B member 2 Source HGNC Symbol Acc HGNC 7961
D09	SBH0485579	ENST00000246672.4	NR1D1	ENSG00000126368	nuclear receptor subfamily 1 group D member 1 Source HGNC Symbol Acc HGNC 7962
D10	SBH0292443	ENST00000492552.5	NR1D2	ENSG00000174738	nuclear receptor subfamily 1 group D member 2 Source HGNC Symbol Acc HGNC 7963
D11	SBH0103207	ENST00000593532.5	NR1H2	ENSG00000131408	nuclear receptor subfamily 1 group H member 2 Source NCBI gene Acc 7376
D12	SBH0458854	ENST00000616973.4	NR1H3	ENSG00000025434	nuclear receptor subfamily 1 group H member 3 Source HGNC Symbol Acc HGNC 7966
E01	SBH0164181	ENST00000548884.5	NR1H4	ENSG00000012504	nuclear receptor subfamily 1 group H member 4 Source HGNC Symbol Acc HGNC 7967
E02	SBH0509930	ENST00000493757.1	NR1I2	ENSG00000144852	nuclear receptor subfamily 1 group I member 2 Source HGNC Symbol Acc HGNC 7968
E03	SBH0550600	ENST00000506209.5	NR1I3	ENSG00000143257	nuclear receptor subfamily 1 group I member 3 Source HGNC Symbol Acc HGNC 7969
E04	SBH0627884	ENST00000552861.5	NR2C1	ENSG00000120798	nuclear receptor subfamily 2 group C member 1 Source HGNC Symbol Acc HGNC 7971
E05	SBH0445760	ENST00000323373.10	NR2C2	ENSG00000177463	nuclear receptor subfamily 2 group C member 2 Source HGNC Symbol Acc HGNC 7972
E06	SBH0636774	ENST00000621098.1	NR2E3	ENSG00000278570	nuclear receptor subfamily 2 group E member 3 Source HGNC Symbol Acc HGNC 7974
E07	SBH0587435	ENST00000644230.1	NR2F1	ENSG00000175745	nuclear receptor subfamily 2 group F member 1 Source HGNC Symbol Acc HGNC 7975
E08	SBH0311465	ENST00000453270.2	NR2F2	ENSG00000185551	nuclear receptor subfamily 2 group F member 2 Source HGNC Symbol Acc HGNC 7976
E09	SBH0356613	ENST00000291442.3	NR2F6	ENSG00000160113	nuclear receptor subfamily 2 group F member 6 Source HGNC Symbol Acc HGNC 7977
E10	SBH1220280	ENST00000652686.1	NR3C1	ENSG00000113580	nuclear receptor subfamily 3 group C member 1 Source HGNC Symbol Acc HGNC 7978
E11	SBH0060773	ENST00000344721.8	NR3C2	ENSG00000151623	nuclear receptor subfamily 3 group C member 2 Source HGNC Symbol Acc HGNC 7979
E12	SBH0110115	ENST00000550763.1	NR4A1	ENSG00000123358	nuclear receptor subfamily 4 group A member 1 Source HGNC Symbol Acc HGNC 7980
F01	SBH0426207	ENST00000373587.3	NR5A1	ENSG00000136931	nuclear receptor subfamily 5 group A member 1 Source HGNC Symbol Acc HGNC 7983
F02	SBH0671762	ENST00000416460.6	NR6A1	ENSG00000148200	nuclear receptor subfamily 6 group A member 1 Source HGNC Symbol Acc HGNC 7985
F03	SBH0057786	ENST00000638122.1	NRIP1	ENSG00000180530	nuclear receptor interacting protein 1 Source HGNC Symbol Acc HGNC 8001
F04	SBH0508179	ENST00000534780.5	PGR	ENSG00000082175	progesterone receptor Source HGNC Symbol Acc HGNC 8910
F05	SBH1220322	ENST00000407236.5	PPARA	ENSG00000186951	peroxisome proliferator activated receptor alpha Source HGNC Symbol Acc HGNC 9232
F06	SBH1220323	ENST00000418635.6	PPARD	ENSG00000112033	peroxisome proliferator activated receptor delta Source HGNC Symbol Acc HGNC 9235
F07	SBH0521265	ENST00000652522.1	PPARG	ENSG00000132170	peroxisome proliferator activated receptor gamma Source HGNC Symbol Acc HGNC 9236
F08	SBH0648879	ENST00000506055.5	PPARGC1A	ENSG00000109819	PPARG coactivator 1 alpha Source HGNC Symbol Acc HGNC 9237
F09	SBH0295595	ENST00000309241.10	PPARGC1B	ENSG00000155846	PPARG coactivator 1 beta Source HGNC Symbol Acc HGNC 30022
F10	SBH0440922	ENST00000619920.4	PSMC3	ENSG00000165916	proteasome 26S subunit, ATPase 3 Source HGNC Symbol Acc HGNC 9549

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0567765	ENST00000310144.11	PSMC5	ENSG00000087191	proteasome 26S subunit, ATPase 5 Source HGNC Symbol Acc HGNC 9552
F12	SBH0530002	ENST00000425707.7	RARA	ENSG00000131759	retinoic acid receptor alpha Source HGNC Symbol Acc HGNC 9864
G01	SBH0264791	ENST00000458646.1	RARB	ENSG00000077092	retinoic acid receptor beta Source HGNC Symbol Acc HGNC 9865
G02	SBH0078933	ENST00000425354.7	RARG	ENSG00000172819	retinoic acid receptor gamma Source HGNC Symbol Acc HGNC 9866
G03	SBH0412189	ENST00000510778.6	RBPJ	ENSG00000168214	recombination signal binding protein for immunoglobulin kappa J region Source HGNC Symbol Acc HGNC 5724
G04	SBH0660238	ENST00000551975.5	RORA	ENSG00000069667	RAR related orphan receptor A Source HGNC Symbol Acc HGNC 10258
G05	SBH0565802	ENST00000356384.4	RXRA	ENSG00000186350	retinoid X receptor alpha Source HGNC Symbol Acc HGNC 10477
G06	SBH0266843	ENST00000483821.1	RXRB	ENSG00000204231	retinoid X receptor beta Source HGNC Symbol Acc HGNC 10478
G07	SBH0620685	ENST00000619224.1	RXRG	ENSG00000143171	retinoid X receptor gamma Source HGNC Symbol Acc HGNC 10479
G08	SBH0530804	ENST00000523948.5	TGS1	ENSG00000137574	trimethylguanosine synthase 1 Source HGNC Symbol Acc HGNC 17843
G09	SBH0236703	ENST00000577288.5	THRA	ENSG00000126351	thyroid hormone receptor alpha Source HGNC Symbol Acc HGNC 11796
G10	SBH0073140	ENST00000396671.7	THRB	ENSG00000151090	thyroid hormone receptor beta Source HGNC Symbol Acc HGNC 11799
G11	SBH0405154	ENST00000261884.7	TRIP4	ENSG00000103671	thyroid hormone receptor interactor 4 Source HGNC Symbol Acc HGNC 12310
G12	SBH0641867	ENST00000546653.5	VDR	ENSG00000111424	vitamin D receptor Source HGNC Symbol Acc HGNC 12679
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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.