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

Human Transcription Factors

Cat. no. 249950 SBHS-075ZR

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	AR	ARNT	ATF1	ATF2	ATF3	ATF4	CEBPA	CEBPB	CEBPG	CREB1	CREBBP	CTNNB1
B	DR1	E2F1	E2F6	EGR1	ELK1	ESR1	ETS1	ETS2	FOS	FOXA2	FOXG1	FOXO1
C	GATA1	GATA2	GATA3	GTF2B	GTF2F1	HAND1	HAND2	HDAC1	HIF1A	HNF1A	HNF4A	HOXA5
D	HSF1	ID1	IRF1	JUN	JUNB	JUND	MAX	MEF2A	MEF2C	MYB	MYC	MYF5
E	MYOD1	NFAT5	NFATC1	NFATC2	NFATC3	NFATC4	NFKB1	NFYB	NR3C1	PAX6	POU2AF1	PPARA
F	PPARG	RB1	REL	RELA	RELB	SMAD1	SMAD4	SMAD5	SMAD9	SP1	SP3	STAT1
G	STAT2	STAT3	STAT4	STAT5A	STAT5B	STAT6	TBP	TCF7L2	TFAP2A	TGIF1	TP53	YY1
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	SBH0056376	ENST00000374690.8	AR	ENSG00000169083	androgen receptor Source HGNC Symbol Acc HGNC 644
A02	SBH1219751	ENST00000358595.10	ARNT	ENSG00000143437	aryl hydrocarbon receptor nuclear translocator Source HGNC Symbol Acc HGNC 700
A03	SBH0226075	ENST00000552510.5	ATF1	ENSG00000123268	activating transcription factor 1 Source HGNC Symbol Acc HGNC 783
A04	SBH1219753	ENST00000409833.5	ATF2	ENSG00000115966	activating transcription factor 2 Source HGNC Symbol Acc HGNC 784
A05	SBH0266951	ENST00000366983.5	ATF3	ENSG00000162772	activating transcription factor 3 Source HGNC Symbol Acc HGNC 785
A06	SBH1219754	ENST00000404241.6	ATF4	ENSG00000128272	activating transcription factor 4 Source HGNC Symbol Acc HGNC 786
A07	SBH0261466	ENST00000498907.3	CEBPA	ENSG00000245848	CCAAT enhancer binding protein alpha Source HGNC Symbol Acc HGNC 1833
A08	SBH0569983	ENST00000303004.4	CEBPB	ENSG00000172216	CCAAT enhancer binding protein beta Source HGNC Symbol Acc HGNC 1834
A09	SBH0228390	ENST00000585933.2	CEBPG	ENSG00000153879	CCAAT enhancer binding protein gamma Source HGNC Symbol Acc HGNC 1837
A10	SBH0077258	ENST00000353267.8	CREB1	ENSG00000118260	cAMP responsive element binding protein 1 Source HGNC Symbol Acc HGNC 2345
A11	SBH0411189	ENST00000571826.5	CREBBP	ENSG00000005339	CREB binding protein Source HGNC Symbol Acc HGNC 2348
A12	SBH0588482	ENST00000396183.7	CTNNB1	ENSG00000168036	catenin beta 1 Source HGNC Symbol Acc HGNC 2514
B01	SBH0223061	ENST00000370267.1	DR1	ENSG00000117505	down-regulator of transcription 1 Source HGNC Symbol Acc HGNC 3017
B02	SBH1219965	ENST00000343380.6	E2F1	ENSG00000101412	E2F transcription factor 1 Source HGNC Symbol Acc HGNC 3113
B03	SBH0349825	ENST00000542100.5	E2F6	ENSG00000169016	E2F transcription factor 6 Source HGNC Symbol Acc HGNC 3120
B04	SBH0290504	ENST00000239938.5	EGR1	ENSG00000120738	early growth response 1 Source HGNC Symbol Acc HGNC 3238
B05	SBH1219973	ENST00000376983.8	ELK1	ENSG00000126767	ELK1, ETS transcription factor Source HGNC Symbol Acc HGNC 3321
B06	SBH0125383	ENST00000206249.7	ESR1	ENSG00000091831	estrogen receptor 1 Source HGNC Symbol Acc HGNC 3467
B07	SBH0541614	ENST00000526145.6	ETS1	ENSG00000134954	ETS proto-oncogene 1, transcription factor Source HGNC Symbol Acc HGNC 3488
B08	SBH1219986	ENST00000432278.5	ETS2	ENSG00000157557	ETS proto-oncogene 2, transcription factor Source HGNC Symbol Acc HGNC 3489
B09	SBH1220004	ENST00000554617.1	FOS	ENSG00000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
B10	SBH0328492	ENST00000419308.6	FOXA2	ENSG00000125798	forkhead box A2 Source HGNC Symbol Acc HGNC 5022
B11	SBH0366035	ENST00000637220.1	FOXG1	ENSG00000176165	forkhead box G1 Source HGNC Symbol Acc HGNC 3811
B12	SBH0594989	ENST00000379561.6	FOXO1	ENSG00000150907	forkhead box O1 Source HGNC Symbol Acc HGNC 3819
C01	SBH0536812	ENST00000651144.1	GATA1	ENSG00000102145	GATA binding protein 1 Source HGNC Symbol Acc HGNC 4170
C02	SBH0082748	ENST00000487848.5	GATA2	ENSG00000179348	GATA binding protein 2 Source HGNC Symbol Acc HGNC 4171
C03	SBH0349339	ENST00000346208.4	GATA3	ENSG00000107485	GATA binding protein 3 Source HGNC Symbol Acc HGNC 4172
C04	SBH0528393	ENST00000494819.5	GTF2B	ENSG00000137947	general transcription factor IIB Source HGNC Symbol Acc HGNC 4648
C05	SBH0229029	ENST00000598607.1	GTF2F1	ENSG00000125651	general transcription factor IIF subunit 1 Source HGNC Symbol Acc HGNC 4652
C06	SBH0331125	ENST00000231121.3	HAND1	ENSG00000113196	heart and neural crest derivatives expressed 1 Source HGNC Symbol Acc HGNC 4807
C07	SBH0212563	ENST00000621866.1	HAND2	ENSG00000164107	heart and neural crest derivatives expressed 2 Source HGNC Symbol Acc HGNC 4808
C08	SBH0527067	ENST00000472928.5	HDAC1	ENSG00000116478	histone deacetylase 1 Source HGNC Symbol Acc HGNC 4852
C09	SBH1220060	ENST00000323441.10	HIF1A	ENSG00000100644	hypoxia inducible factor 1 subunit alpha Source HGNC Symbol Acc HGNC 4910
C10	SBH0525478	ENST00000560968.5	HNF1A	ENSG00000135100	HNF1 homeobox A Source HGNC Symbol Acc HGNC 11621
		ENST00000609		ENSG00000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0483648	795.5	HNF4A	101076	hepatocyte nuclear factor 4 alpha Source HGNC Symbol Acc HGNC 5024
C12	SBH0059883	ENST00000520 854.1	HOXA5	ENSG00000 106004	homeobox A5 Source HGNC Symbol Acc HGNC 5106
D01	SBH0562949	ENST00000528 199.5	HSF1	ENSG00000 185122	heat shock transcription factor 1 Source HGNC Symbol Acc HGNC 5224
D02	SBH1220077	ENST00000376 112.4	ID1	ENSG00000 125968	inhibitor of DNA binding 1, HLH protein Source HGNC Symbol Acc HGNC 5360
D03	SBH1220122	ENST00000245 414.9	IRF1	ENSG00000 125347	interferon regulatory factor 1 Source HGNC Symbol Acc HGNC 6116
D04	SBH0613340	ENST00000371 222.3	JUN	ENSG00000 177606	Jun proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6204
D05	SBH1220143	ENST00000302 754.6	JUNB	ENSG00000 171223	JunB proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6205
D06	SBH0615164	ENST00000600 972.1	JUND	ENSG00000 130522	JunD proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6206
D07	SBH0511192	ENST00000554 709.1	MAX	ENSG00000 125952	MYC associated factor X Source HGNC Symbol Acc HGNC 6913
D08	SBH0591485	ENST00000449 277.6	MEF2A	ENSG00000 068305	myocyte enhancer factor 2A Source HGNC Symbol Acc HGNC 6993
D09	SBH0475014	ENST00000625 585.2	MEF2C	ENSG00000 081189	myocyte enhancer factor 2C Source HGNC Symbol Acc HGNC 6996
D10	SBH0113462	ENST00000316 528.12	MYB	ENSG00000 118513	MYB proto-oncogene, transcription factor Source HGNC Symbol Acc HGNC 7545
D11	SBH0426145	ENST00000524 013.1	MYC	ENSG00000 136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
D12	SBH0337017	ENST00000228 644.4	MYF5	ENSG00000 111049	myogenic factor 5 Source HGNC Symbol Acc HGNC 7565
E01	SBH0342665	ENST00000250 003.4	MYOD1	ENSG00000 129152	myogenic differentiation 1 Source HGNC Symbol Acc HGNC 7611
E02	SBH1220263	ENST00000354 436.6	NFAT5	ENSG00000 102908	nuclear factor of activated T cells 5 Source HGNC Symbol Acc HGNC 7774
E03	SBH0171265	ENST00000591 814.5	NFATC1	ENSG00000 131196	nuclear factor of activated T cells 1 Source HGNC Symbol Acc HGNC 7775
E04	SBH0361870	ENST00000609 943.5	NFATC2	ENSG00000 101096	nuclear factor of activated T cells 2 Source HGNC Symbol Acc HGNC 7776
E05	SBH0604923	ENST00000562 171.1	NFATC3	ENSG00000 072736	nuclear factor of activated T cells 3 Source HGNC Symbol Acc HGNC 7777
E06	SBH0453720	ENST00000557 451.5	NFATC4	ENSG00000 100968	nuclear factor of activated T cells 4 Source HGNC Symbol Acc HGNC 7778
E07	SBH1220264	ENST00000651 197.1	NFKB1	ENSG00000 109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
E08	SBH0093169	ENST00000551 446.6	NFYB	ENSG00000 120837	nuclear transcription factor Y subunit beta Source HGNC Symbol Acc HGNC 7805
E09	SBH1220280	ENST00000652 686.1	NR3C1	ENSG00000 113580	nuclear receptor subfamily 3 group C member 1 Source HGNC Symbol Acc HGNC 7978
E10	SBH0042496	ENST00000533 333.5	PAX6	ENSG00000 007372	paired box 6 Source HGNC Symbol Acc HGNC 8620
E11	SBH0261264	ENST00000515 029.2	POU2AF1	ENSG00000 110777	POU class 2 associating factor 1 Source HGNC Symbol Acc HGNC 9211
E12	SBH1220322	ENST00000407 236.5	PPARA	ENSG00000 186951	peroxisome proliferator activated receptor alpha Source HGNC Symbol Acc HGNC 9232
F01	SBH0521265	ENST00000652 522.1	PPARG	ENSG00000 132170	peroxisome proliferator activated receptor gamma Source HGNC Symbol Acc HGNC 9236
F02	SBH0093533	ENST00000267 163.5	RB1	ENSG00000 139687	RB transcriptional corepressor 1 Source HGNC Symbol Acc HGNC 9884
F03	SBH1220362	ENST00000394 479.3	REL	ENSG00000 162924	REL proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9954
F04	SBH1220363	ENST00000532 999.5	RELA	ENSG00000 173039	RELA proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9955
F05	SBH0657475	ENST00000625 761.2	RELB	ENSG00000 104856	RELB proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9956
F06	SBH1220404	ENST00000394 092.6	SMAD1	ENSG00000 170365	SMAD family member 1 Source HGNC Symbol Acc HGNC 6767
F07	SBH1220406	ENST00000588 745.5	SMAD4	ENSG00000 141646	SMAD family member 4 Source HGNC Symbol Acc HGNC 6770
F08	SBH1220407	ENST00000545 279.6	SMAD5	ENSG00000 113658	SMAD family member 5 Source HGNC Symbol Acc HGNC 6771
F09	SBH0348067	ENST00000350 148.9	SMAD9	ENSG00000 120693	SMAD family member 9 Source HGNC Symbol Acc HGNC 6774
F10	SBH1220419	ENST00000426 431.2	SP1	ENSG00000 185591	Sp1 transcription factor Source HGNC Symbol Acc HGNC 11205

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0474845	ENST00000418194.6	SP3	ENSG00000172845	Sp3 transcription factor Source HGNC Symbol Acc HGNC 11208
F12	SBH0333289	ENST00000361099.7	STAT1	ENSG00000115415	signal transducer and activator of transcription 1 Source HGNC Symbol Acc HGNC 11362
G01	SBH1220422	ENST00000314128.9	STAT2	ENSG00000170581	signal transducer and activator of transcription 2 Source HGNC Symbol Acc HGNC 11363
G02	SBH0341614	ENST00000404395.3	STAT3	ENSG00000168610	signal transducer and activator of transcription 3 Source HGNC Symbol Acc HGNC 11364
G03	SBH1220423	ENST00000392320.7	STAT4	ENSG00000138378	signal transducer and activator of transcription 4 Source HGNC Symbol Acc HGNC 11365
G04	SBH0335854	ENST00000345506.8	STAT5A	ENSG00000126561	signal transducer and activator of transcription 5A Source HGNC Symbol Acc HGNC 11366
G05	SBH0472958	ENST00000481253.2	STAT5B	ENSG00000173757	signal transducer and activator of transcription 5B Source HGNC Symbol Acc HGNC 11367
G06	SBH1220424	ENST00000300134.8	STAT6	ENSG00000166888	signal transducer and activator of transcription 6 Source HGNC Symbol Acc HGNC 11368
G07	SBH0391411	ENST00000392092.7	TBP	ENSG00000112592	TATA-box binding protein Source HGNC Symbol Acc HGNC 11588
G08	SBH0385754	ENST00000355717.9	TCF7L2	ENSG00000148737	transcription factor 7 like 2 Source HGNC Symbol Acc HGNC 11641
G09	SBH0453316	ENST00000482890.5	TFAP2A	ENSG00000137203	transcription factor AP-2 alpha Source HGNC Symbol Acc HGNC 11742
G10	SBH0261061	ENST00000343820.9	TGIF1	ENSG00000177426	TGFB induced factor homeobox 1 Source HGNC Symbol Acc HGNC 11776
G11	SBH1220486	ENST00000445888.6	TP53	ENSG00000141510	tumor protein p53 Source HGNC Symbol Acc HGNC 11998
G12	SBH0101397	ENST00000553625.5	YY1	ENSG00000100811	YY1 transcription factor Source HGNC Symbol Acc HGNC 12856
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.