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

Human Epigenetic Chromatin Remodeling Factors

Cat. no. 249950 SBHS-086ZR

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	ARID1A	ASXL1	BAZ1A	BAZ1B	BAZ2A	BAZ2B	BMI1	BPTF	BRD1	BRD2	BRD3	BRD4
B	BRD7	BRD8	BRDT	BRPF1	BRPF3	BRWD1	BRWD3	CBX1	CBX3	CBX4	CBX5	CBX6
C	CBX7	CBX8	CDYL	CDYL2	CHD1	CHD2	CHD3	CHD4	CHD5	CHD6	CHD7	CHD8
D	CHD9	CTBP1	CTBP2	CTCF	EED	EZH2	HINFP	ING1	ING2	ING3	ING4	ING5
E	INO80	MBD1	MBD2	MBD3	MBD4	MECP2	MTA1	MTA2	NAB2	NSD1	PBRM1	PCGF1
F	PCGF2	PCGF3	PCGF5	PCGF6	PHC1	PHC2	PHF1	PHF13	PHF2	PHF21A	PHF21B	PHF3
G	PHF5A	PHF6	PHF7	RING1	RNF2	SMARCA2	SMARCA4	SPEN	SUZ12	TRIM27	WDR11	ZMYND8
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	SBH0551257	ENST00000637465.1	ARID1A	ENSG00000117713	AT-rich interaction domain 1A Source HGNC Symbol Acc HGNC 11110
A02	SBH0460704	ENST00000644587.1	ASXL1	ENSG00000171456	ASXL transcriptional regulator 1 Source HGNC Symbol Acc HGNC 18318
A03	SBH1219522	ENST00000555273.1	BAZ1A	ENSG00000198604	bromodomain adjacent to zinc finger domain 1A Source HGNC Symbol Acc HGNC 960
A04	SBH0511158	ENST00000466844.1	BAZ1B	ENSG00000009954	bromodomain adjacent to zinc finger domain 1B Source HGNC Symbol Acc HGNC 961
A05	SBH0281109	ENST00000549763.1	BAZ2A	ENSG00000076108	bromodomain adjacent to zinc finger domain 2A Source HGNC Symbol Acc HGNC 962
A06	SBH0456339	ENST00000541068.6	BAZ2B	ENSG00000123636	bromodomain adjacent to zinc finger domain 2B Source HGNC Symbol Acc HGNC 963
A07	SBH1219800	ENST00000376663.8	BMI1	ENSG00000168283	BMI1 proto-oncogene, polycomb ring finger Source HGNC Symbol Acc HGNC 1066
A08	SBH0302381	ENST00000321892.8	BPTF	ENSG00000171634	bromodomain PHD finger transcription factor Source HGNC Symbol Acc HGNC 3581
A09	SBH0272343	ENST00000457780.3	BRD1	ENSG00000100425	bromodomain containing 1 Source HGNC Symbol Acc HGNC 1102
A10	SBH0077380	ENST00000481259.1	BRD2	ENSG00000204256	bromodomain containing 2 Source HGNC Symbol Acc HGNC 1103
A11	SBH0041507	ENST00000371842.2	BRD3	ENSG00000169925	bromodomain containing 3 Source HGNC Symbol Acc HGNC 1104
A12	SBH0645249	ENST00000360016.9	BRD4	ENSG00000141867	bromodomain containing 4 Source HGNC Symbol Acc HGNC 13575
B01	SBH0048439	ENST00000567826.1	BRD7	ENSG00000166164	bromodomain containing 7 Source HGNC Symbol Acc HGNC 14310
B02	SBH0389222	ENST00000441656.5	BRD8	ENSG00000112983	bromodomain containing 8 Source HGNC Symbol Acc HGNC 19874
B03	SBH0599043	ENST00000399546.6	BRDT	ENSG00000137948	bromodomain testis associated Source HGNC Symbol Acc HGNC 1105
B04	SBH0189628	ENST00000433861.6	BRPF1	ENSG00000156983	bromodomain and PHD finger containing 1 Source HGNC Symbol Acc HGNC 14255
B05	SBH0385294	ENST00000449261.6	BRPF3	ENSG00000096070	bromodomain and PHD finger containing 3 Source HGNC Symbol Acc HGNC 14256
B06	SBH0210978	ENST00000333229.6	BRWD1	ENSG00000185658	bromodomain and WD repeat domain containing 1 Source HGNC Symbol Acc HGNC 12760
B07	SBH0670365	ENST00000497335.1	BRWD3	ENSG00000165288	bromodomain and WD repeat domain containing 3 Source HGNC Symbol Acc HGNC 17342
B08	SBH0248411	ENST00000581003.5	CBX1	ENSG00000108468	chromobox 1 Source HGNC Symbol Acc HGNC 1551
B09	SBH0226710	ENST00000462165.2	CBX3	ENSG00000122565	chromobox 3 Source HGNC Symbol Acc HGNC 1553
B10	SBH0526382	ENST00000494546.1	CBX4	ENSG00000141582	chromobox 4 Source HGNC Symbol Acc HGNC 1554
B11	SBH0380232	ENST00000550411.5	CBX5	ENSG00000094916	chromobox 5 Source HGNC Symbol Acc HGNC 1555
B12	SBH0612072	ENST00000407418.7	CBX6	ENSG00000183741	chromobox 6 Source HGNC Symbol Acc HGNC 1556
C01	SBH0518717	ENST00000477827.1	CBX7	ENSG00000100307	chromobox 7 Source HGNC Symbol Acc HGNC 1557
C02	SBH0572064	ENST00000427800.2	CBX8	ENSG00000141570	chromobox 8 Source HGNC Symbol Acc HGNC 15962
C03	SBH1219882	ENST00000449732.6	CDYL	ENSG00000153046	chromodomain Y like Source HGNC Symbol Acc HGNC 1811
C04	SBH0104802	ENST00000561616.2	CDYL2	ENSG00000166446	chromodomain Y like 2 Source HGNC Symbol Acc HGNC 23030
C05	SBH0328822	ENST00000505657.1	CHD1	ENSG00000153922	chromodomain helicase DNA binding protein 1 Source HGNC Symbol Acc HGNC 1915
C06	SBH0409356	ENST00000637572.1	CHD2	ENSG00000173575	chromodomain helicase DNA binding protein 2 Source HGNC Symbol Acc HGNC 1917
C07	SBH0581565	ENST00000466233.1	CHD3	ENSG00000170004	chromodomain helicase DNA binding protein 3 Source HGNC Symbol Acc HGNC 1918
C08	SBH0546437	ENST00000545942.6	CHD4	ENSG00000111642	chromodomain helicase DNA binding protein 4 Source HGNC Symbol Acc HGNC 1919
C09	SBH0083996	ENST00000496404.1	CHD5	ENSG00000116254	chromodomain helicase DNA binding protein 5 Source HGNC Symbol Acc HGNC 16816
C10	SBH0383132	ENST00000309279.11	CHD6	ENSG00000124177	chromodomain helicase DNA binding protein 6 Source HGNC Symbol Acc HGNC 19057
		ENST00000528		ENSG00000	chromodomain helicase DNA binding protein 7 Source HGNC Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0223484	280.1	CHD7	171316	HGNC 20626
C12	SBH0027713	ENST00000646647.1	CHD8	ENSG00000100888	chromodomain helicase DNA binding protein 8 Source HGNC Symbol Acc HGNC 20153
D01	SBH0272366	ENST00000565119.1	CHD9	ENSG00000177200	chromodomain helicase DNA binding protein 9 Source HGNC Symbol Acc HGNC 25701
D02	SBH0133926	ENST00000290921.10	CTBP1	ENSG00000159692	C-terminal binding protein 1 Source HGNC Symbol Acc HGNC 2494
D03	SBH0551670	ENST00000337195.9	CTBP2	ENSG00000175029	C-terminal binding protein 2 Source HGNC Symbol Acc HGNC 2495
D04	SBH0567408	ENST00000644950.1	CTCF	ENSG00000102974	CCCTC-binding factor Source HGNC Symbol Acc HGNC 13723
D05	SBH0275700	ENST00000351625.10	EED	ENSG00000074266	embryonic ectoderm development Source HGNC Symbol Acc HGNC 3188
D06	SBH0648935	ENST00000483012.1	EZH2	ENSG00000106462	enhancer of zeste 2 polycomb repressive complex 2 subunit Source HGNC Symbol Acc HGNC 3527
D07	SBH0100054	ENST00000529354.1	HINFP	ENSG00000172273	histone H4 transcription factor Source HGNC Symbol Acc HGNC 17850
D08	SBH0085271	ENST00000333219.8	ING1	ENSG00000153487	inhibitor of growth family member 1 Source HGNC Symbol Acc HGNC 6062
D09	SBH0552411	ENST00000302327.4	ING2	ENSG00000168556	inhibitor of growth family member 2 Source HGNC Symbol Acc HGNC 6063
D10	SBH0492895	ENST00000431467.1	ING3	ENSG00000071243	inhibitor of growth family member 3 Source HGNC Symbol Acc HGNC 14587
D11	SBH0663146	ENST00000467678.5	ING4	ENSG00000111653	inhibitor of growth family member 4 Source HGNC Symbol Acc HGNC 19423
D12	SBH0228581	ENST00000406941.5	ING5	ENSG00000168395	inhibitor of growth family member 5 Source HGNC Symbol Acc HGNC 19421
E01	SBH0016542	ENST00000401393.7	INO80	ENSG00000128908	INO80 complex subunit Source HGNC Symbol Acc HGNC 26956
E02	SBH0504637	ENST00000457839.6	MBD1	ENSG00000141644	methyl-CpG binding domain protein 1 Source HGNC Symbol Acc HGNC 6916
E03	SBH1220197	ENST00000256429.8	MBD2	ENSG00000134046	methyl-CpG binding domain protein 2 Source HGNC Symbol Acc HGNC 6917
E04	SBH0512635	ENST00000585967.5	MBD3	ENSG00000071655	methyl-CpG binding domain protein 3 Source HGNC Symbol Acc HGNC 6918
E05	SBH1220198	ENST00000429544.6	MBD4	ENSG00000129071	methyl-CpG binding domain 4, DNA glycosylase Source HGNC Symbol Acc HGNC 6919
E06	SBH0100674	ENST00000611468.1	MECP2	ENSG00000169057	methyl-CpG binding protein 2 Source HGNC Symbol Acc HGNC 6990
E07	SBH0256481	ENST00000435036.6	MTA1	ENSG00000182979	metastasis associated 1 Source HGNC Symbol Acc HGNC 7410
E08	SBH0296848	ENST00000531179.1	MTA2	ENSG00000149480	metastasis associated 1 family member 2 Source HGNC Symbol Acc HGNC 7411
E09	SBH0411255	ENST00000342556.6	NAB2	ENSG00000166886	NGFI-A binding protein 2 Source HGNC Symbol Acc HGNC 7627
E10	SBH0339470	ENST00000439151.6	NSD1	ENSG00000165671	nuclear receptor binding SET domain protein 1 Source HGNC Symbol Acc HGNC 14234
E11	SBH0417588	ENST00000394830.7	PBRM1	ENSG00000163939	polybromo 1 Source HGNC Symbol Acc HGNC 30064
E12	SBH0667096	ENST00000465993.5	PCGF1	ENSG00000115289	polycomb group ring finger 1 Source HGNC Symbol Acc HGNC 17615
F01	SBH0438630	ENST00000616199.4	PCGF2	ENSG00000277258	polycomb group ring finger 2 Source HGNC Symbol Acc HGNC 12929
F02	SBH0419664	ENST00000433814.5	PCGF3	ENSG00000185619	polycomb group ring finger 3 Source HGNC Symbol Acc HGNC 10066
F03	SBH0028863	ENST00000336126.6	PCGF5	ENSG00000180628	polycomb group ring finger 5 Source HGNC Symbol Acc HGNC 28264
F04	SBH0366382	ENST00000647574.1	PCGF6	ENSG00000156374	polycomb group ring finger 6 Source HGNC Symbol Acc HGNC 21156
F05	SBH0504856	ENST00000539063.5	PHC1	ENSG00000111752	polyhomeotic homolog 1 Source HGNC Symbol Acc HGNC 3182
F06	SBH0302112	ENST00000485928.5	PHC2	ENSG00000134686	polyhomeotic homolog 2 Source HGNC Symbol Acc HGNC 3183
F07	SBH0290357	ENST00000428274.5	PHF1	ENSG00000112511	PHD finger protein 1 Source HGNC Symbol Acc HGNC 8919
F08	SBH0000793	ENST00000377648.5	PHF13	ENSG00000116273	PHD finger protein 13 Source HGNC Symbol Acc HGNC 22983
F09	SBH0302230	ENST00000610682.1	PHF2	ENSG00000197724	PHD finger protein 2 Source HGNC Symbol Acc HGNC 8920
F10	SBH0466578	ENST00000524497.5	PHF21A	ENSG00000135365	PHD finger protein 21A Source HGNC Symbol Acc HGNC 24156

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0398172	ENST00000460507.5	PHF21B	ENSG00000056487	PHD finger protein 21B Source HGNC Symbol Acc HGNC 25161
F12	SBH0306630	ENST00000393387.5	PHF3	ENSG00000118482	PHD finger protein 3 Source HGNC Symbol Acc HGNC 8921
G01	SBH0638519	ENST00000216252.4	PHF5A	ENSG00000100410	PHD finger protein 5A Source HGNC Symbol Acc HGNC 18000
G02	SBH0519611	ENST00000332070.7	PHF6	ENSG00000156531	PHD finger protein 6 Source HGNC Symbol Acc HGNC 18145
G03	SBH0090625	ENST00000465863.1	PHF7	ENSG00000010318	PHD finger protein 7 Source HGNC Symbol Acc HGNC 18458
G04	SBH0392206	ENST00000374656.5	RING1	ENSG00000204227	ring finger protein 1 Source HGNC Symbol Acc HGNC 10018
G05	SBH1220372	ENST00000367510.8	RNF2	ENSG00000121481	ring finger protein 2 Source HGNC Symbol Acc HGNC 10061
G06	SBH0158364	ENST00000634343.1	SMARCA2	ENSG00000080503	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 Source HGNC Symbol Acc HGNC 11098
G07	SBH0332524	ENST00000646593.1	SMARCA4	ENSG00000127616	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 Source HGNC Symbol Acc HGNC 11100
G08	SBH0313590	ENST00000375759.8	SPEN	ENSG00000065526	spen family transcriptional repressor Source HGNC Symbol Acc HGNC 17575
G09	SBH0114188	ENST00000578106.1	SUZ12	ENSG00000178691	SUZ12, polycomb repressive complex 2 subunit Source HGNC Symbol Acc HGNC 17101
G10	SBH0478137	ENST00000467742.1	TRIM27	ENSG00000204713	tripartite motif containing 27 Source HGNC Symbol Acc HGNC 9975
G11	SBH0399059	ENST00000605320.1	WDR11	ENSG00000120008	WD repeat domain 11 Source HGNC Symbol Acc HGNC 13831
G12	SBH0637976	ENST00000355972.8	ZMYND8	ENSG00000101040	zinc finger MYND-type containing 8 Source HGNC Symbol Acc HGNC 9397
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.