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

Mouse Epigenetic Chromatin Remodeling Factors

Cat. no. 249950 SBMM-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	Arid2	Asxl1	Baz1a	Baz1b	Baz2a	Baz2b	Bmi1	Bptf	Brd1	Brd2	Brd3
B	Brd4	Brd7	Brd8	Brdt	Brpf1	Brpf3	Brwd1	Brwd3	Cbx1	Cbx2	Cbx3	Cbx4
C	Cbx5	Cbx6	Cbx7	Cbx8	Cdyl	Cdyl2	Chd1	Chd2	Chd3	Chd4	Chd5	Chd6
D	Chd7	Chd8	Chd9	Ctbp1	Ctbp2	Ctcf	Eed	Ezh2	Hinfp	Ing1	Ing2	Ing3
E	Ing4	Ing5	Ino80	Mbd1	Mbd3	Mbd4	Mecp2	Mta1	Mta2	Nab2	Nsd1	Pcgf1
F	Pcgf2	Pcgf3	Pcgf5	Pcgf6	Phc1	Phc2	Phf1	Phf13	Phf2	Phf21b	Phf3	Phf5a
G	Phf6	Phf7	Ring1	Rnf2	Smarca2	Smarca4	Smarca5	Spen	Suz12	Trim27	Wdr11	Zmynd8
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0764700	ENSMUST00000145664.8	Arid1a	ENSMUSG00000007880	AT rich interactive domain 1A (SWI-like) Source MGI Symbol Acc MGI 1935147
A02	SBM0757289	ENSMUST00000096250.4	Arid2	ENSMUSG00000033237	AT rich interactive domain 2 (ARID, RFX-like) Source MGI Symbol Acc MGI 1924294
A03	SBM0703435	ENSMUST00000144722.1	Asxl1	ENSMUSG00000042548	additional sex combs like 1 Source MGI Symbol Acc MGI 2684063
A04	SBM0893646	ENSMUST00000172875.7	Baz1a	ENSMUSG00000035021	bromodomain adjacent to zinc finger domain 1A Source MGI Symbol Acc MGI 1309478
A05	SBM1059069	ENSMUST00000136947.1	Baz1b	ENSMUSG00000002748	bromodomain adjacent to zinc finger domain, 1B Source MGI Symbol Acc MGI 1353499
A06	SBM0869019	ENSMUST00000218772.1	Baz2a	ENSMUSG00000040054	bromodomain adjacent to zinc finger domain, 2A Source MGI Symbol Acc MGI 2151152
A07	SBM0882266	ENSMUST00000152639.7	Baz2b	ENSMUSG00000026987	bromodomain adjacent to zinc finger domain, 2B Source MGI Symbol Acc MGI 2442782
A08	SBM0925658	ENSMUST00000150834.7	Bmi1	ENSMUSG00000026739	Bmi1 polycomb ring finger oncogene Source MGI Symbol Acc MGI 88174
A09	SBM1079174	ENSMUST00000147816.1	Bptf	ENSMUSG00000040481	bromodomain PHD finger transcription factor Source MGI Symbol Acc MGI 2444008
A10	SBM1063109	ENSMUST00000139515.1	Brd1	ENSMUSG00000022387	bromodomain containing 1 Source MGI Symbol Acc MGI 1924161
A11	SBM1012466	ENSMUST00000025193.13	Brd2	ENSMUSG00000024335	bromodomain containing 2 Source MGI Symbol Acc MGI 99495
A12	SBM1045348	ENSMUST00000028282.14	Brd3	ENSMUSG00000026918	bromodomain containing 3 Source MGI Symbol Acc MGI 1914632
B01	SBM0842815	ENSMUST00000125899.1	Brd4	ENSMUSG00000024002	bromodomain containing 4 Source MGI Symbol Acc MGI 1888520
B02	SBM0743025	ENSMUST00000146370.1	Brd7	ENSMUSG00000031660	bromodomain containing 7 Source MGI Symbol Acc MGI 1349766
B03	SBM0996715	ENSMUST00000145431.1	Brd8	ENSMUSG00000003778	bromodomain containing 8 Source MGI Symbol Acc MGI 1925906
B04	SBM0986049	ENSMUST00000161377.1	Brdt	ENSMUSG00000029279	bromodomain, testis-specific Source MGI Symbol Acc MGI 1891374
B05	SBM0812964	ENSMUST00000113119.7	Brpf1	ENSMUSG00000001632	bromodomain and PHD finger containing, 1 Source MGI Symbol Acc MGI 1926033
B06	SBM1024101	ENSMUST00000144022.8	Brpf3	ENSMUSG00000063952	bromodomain and PHD finger containing, 3 Source MGI Symbol Acc MGI 2146836
B07	SBM0942609	ENSMUST00000113827.3	Brwd1	ENSMUSG00000022914	bromodomain and WD repeat domain containing 1 Source MGI Symbol Acc MGI 1890651
B08	SBM0771140	ENSMUST00000041866.11	Brwd3	ENSMUSG00000063663	bromodomain and WD repeat domain containing 3 Source MGI Symbol Acc MGI 3029414
B09	SBM1047339	ENSMUST00000134585.7	Cbx1	ENSMUSG00000018666	chromobox 1 Source MGI Symbol Acc MGI 105369
B10	SBM0900334	ENSMUST00000139746.1	Cbx2	ENSMUSG00000025577	chromobox 2 Source MGI Symbol Acc MGI 88289
B11	SBM0835928	ENSMUST00000094623.9	Cbx3	ENSMUSG00000029836	chromobox 3 Source MGI Symbol Acc MGI 108515
B12	SBM0806667	ENSMUST00000145058.1	Cbx4	ENSMUSG00000039989	chromobox 4 Source MGI Symbol Acc MGI 1195985
C01	SBM0881887	ENSMUST00000118152.7	Cbx5	ENSMUSG00000009575	chromobox 5 Source MGI Symbol Acc MGI 109372
C02	SBM0826264	ENSMUST00000109627.7	Cbx6	ENSMUSG00000089715	chromobox 6 Source MGI Symbol Acc MGI 3512628
C03	SBM0801117	ENSMUST00000177044.1	Cbx7	ENSMUSG00000053411	chromobox 7 Source MGI Symbol Acc MGI 1196439
C04	SBM0686629	ENSMUST00000143831.1	Cbx8	ENSMUSG00000025578	chromobox 8 Source MGI Symbol Acc MGI 1353589
C05	SBM0843424	ENSMUST00000163595.2	Cdyl	ENSMUSG00000059288	chromodomain protein, Y chromosome-like Source MGI Symbol Acc MGI 1339956
C06	SBM0744623	ENSMUST00000109102.3	Cdyl2	ENSMUSG00000031758	chromodomain protein, Y chromosome-like 2 Source MGI Symbol Acc MGI 1923046
C07	SBM0776645	ENSMUST00000174461.1	Chd1	ENSMUSG00000023852	chromodomain helicase DNA binding protein 1 Source MGI Symbol Acc MGI 88393
C08	SBM0867303	ENSMUST00000169922.8	Chd2	ENSMUSG00000078671	chromodomain helicase DNA binding protein 2 Source MGI Symbol Acc MGI 2448567
C09	SBM0675925	ENSMUST00000092971.12	Chd3	ENSMUSG00000018474	chromodomain helicase DNA binding protein 3 Source MGI Symbol Acc MGI 1344395
C10	SBM0848966	ENSMUST00000155261.1	Chd4	ENSMUSG00000063870	chromodomain helicase DNA binding protein 4 Source MGI Symbol Acc MGI 1344380
		ENSMUST00000		ENSMUSG00	chromodomain helicase DNA binding protein 5 Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0732924	136134.1	Chd5	000005045	3036258
C12	SBM0721445	ENSMUST00000134178.7	Chd6	ENSMUSG00000057133	chromodomain helicase DNA binding protein 6 Source MGI Symbol Acc MGI 1918639
D01	SBM0929908	ENSMUST00000051558.9	Chd7	ENSMUSG00000041235	chromodomain helicase DNA binding protein 7 Source MGI Symbol Acc MGI 2444748
D02	SBM1041660	ENSMUST00000136528.1	Chd8	ENSMUSG00000053754	chromodomain helicase DNA binding protein 8 Source MGI Symbol Acc MGI 1915022
D03	SBM0954419	ENSMUST00000209746.1	Chd9	ENSMUSG00000056608	chromodomain helicase DNA binding protein 9 Source MGI Symbol Acc MGI 1924001
D04	SBM1023677	ENSMUST00000201372.2	Ctbp1	ENSMUSG00000037373	C-terminal binding protein 1 Source MGI Symbol Acc MGI 1201685
D05	SBM0738292	ENSMUST00000170459.7	Ctbp2	ENSMUSG00000030970	C-terminal binding protein 2 Source MGI Symbol Acc MGI 1201686
D06	SBM0704480	ENSMUST00000137735.7	Ctcf	ENSMUSG00000005698	CCCTC-binding factor Source MGI Symbol Acc MGI 109447
D07	SBM0904105	ENSMUST00000208643.1	Eed	ENSMUSG00000030619	embryonic ectoderm development Source MGI Symbol Acc MGI 95286
D08	SBM0785041	ENSMUST00000169889.2	Ezh2	ENSMUSG00000029687	enhancer of zeste 2 polycomb repressive complex 2 subunit Source MGI Symbol Acc MGI 107940
D09	SBM0982025	ENSMUST00000214660.1	Hinfp	ENSMUSG00000032119	histone H4 transcription factor Source MGI Symbol Acc MGI 2429620
D10	SBM0762147	ENSMUST00000209646.1	Ing1	ENSMUSG00000045969	inhibitor of growth family, member 1 Source MGI Symbol Acc MGI 1349481
D11	SBM0822495	ENSMUST00000080353.2	Ing2	ENSMUSG00000063049	inhibitor of growth family, member 2 Source MGI Symbol Acc MGI 1916510
D12	SBM1063752	ENSMUST00000115389.7	Ing3	ENSMUSG00000029670	inhibitor of growth family, member 3 Source MGI Symbol Acc MGI 1919027
E01	SBM0959440	ENSMUST00000140131.7	Ing4	ENSMUSG00000030330	inhibitor of growth family, member 4 Source MGI Symbol Acc MGI 107307
E02	SBM0678092	ENSMUST00000190476.1	Ing5	ENSMUSG00000026283	inhibitor of growth family, member 5 Source MGI Symbol Acc MGI 1922816
E03	SBM0834312	ENSMUST00000138707.1	Ino80	ENSMUSG00000034154	INO80 complex subunit Source MGI Symbol Acc MGI 1915392
E04	SBM0969137	ENSMUST00000097530.4	Mbd1	ENSMUSG00000024561	methyl-CpG binding domain protein 1 Source MGI Symbol Acc MGI 1333811
E05	SBM1045460	ENSMUST00000092295.9	Mbd3	ENSMUSG00000035478	methyl-CpG binding domain protein 3 Source MGI Symbol Acc MGI 1333812
E06	SBM0719458	ENSMUST00000203643.1	Mbd4	ENSMUSG00000030322	methyl-CpG binding domain protein 4 Source MGI Symbol Acc MGI 1333850
E07	SBM1079012	ENSMUST00000123362.7	Mecp2	ENSMUSG00000031393	methyl CpG binding protein 2 Source MGI Symbol Acc MGI 99918
E08	SBM0991754	ENSMUST00000009099.12	Mta1	ENSMUSG00000021144	metastasis associated 1 Source MGI Symbol Acc MGI 2150037
E09	SBM1057770	ENSMUST00000135300.7	Mta2	ENSMUSG00000071646	metastasis-associated gene family, member 2 Source MGI Symbol Acc MGI 1346340
E10	SBM1091111	ENSMUST00000099157.3	Nab2	ENSMUSG00000025402	Ngfi-A binding protein 2 Source MGI Symbol Acc MGI 107563
E11	SBM0672810	ENSMUST00000224156.1	Nsd1	ENSMUSG00000021488	nuclear receptor-binding SET-domain protein 1 Source MGI Symbol Acc MGI 1276545
E12	SBM0759222	ENSMUST00000176027.7	Pcgf1	ENSMUSG00000069678	polycomb group ring finger 1 Source MGI Symbol Acc MGI 1917087
F01	SBM0879579	ENSMUST00000103149.8	Pcgf2	ENSMUSG00000018537	polycomb group ring finger 2 Source MGI Symbol Acc MGI 99161
F02	SBM0965263	ENSMUST00000112597.7	Pcgf3	ENSMUSG00000033623	polycomb group ring finger 3 Source MGI Symbol Acc MGI 1916837
F03	SBM1014896	ENSMUST00000062389.5	Pcgf5	ENSMUSG00000024805	polycomb group ring finger 5 Source MGI Symbol Acc MGI 1923505
F04	SBM0727825	ENSMUST00000026032.6	Pcgf6	ENSMUSG00000025050	polycomb group ring finger 6 Source MGI Symbol Acc MGI 1918291
F05	SBM0946631	ENSMUST00000159657.7	Phc1	ENSMUSG00000040669	polyhomeotic 1 Source MGI Symbol Acc MGI 103248
F06	SBM1082778	ENSMUST00000147572.7	Phc2	ENSMUSG00000028796	polyhomeotic 2 Source MGI Symbol Acc MGI 1860454
F07	SBM0910327	ENSMUST00000237189.1	Phf1	ENSMUSG00000024193	PHD finger protein 1 Source MGI Symbol Acc MGI 98647
F08	SBM0822062	ENSMUST00000055688.9	Phf13	ENSMUSG00000047777	PHD finger protein 13 Source MGI Symbol Acc MGI 2446217
F09	SBM0808226	ENSMUST00000035540.8	Phf2	ENSMUSG00000038025	PHD finger protein 2 Source MGI Symbol Acc MGI 1338034
F10	SBM0738419	ENSMUST00000016768.11	Phf21b	ENSMUSG00000016624	PHD finger protein 21B Source MGI Symbol Acc MGI 2443812

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1002149	ENSMUST00000190190.1	Phf3	ENSMUSG00000048874	PHD finger protein 3 Source MGI Symbol Acc MGI 2446126
F12	SBM0779993	ENSMUST00000023117.9	Phf5a	ENSMUSG00000061360	PHD finger protein 5A Source MGI Symbol Acc MGI 2156864
G01	SBM0845214	ENSMUST00000078944.12	Phf6	ENSMUSG00000025626	PHD finger protein 6 Source MGI Symbol Acc MGI 1918248
G02	SBM1048209	ENSMUST00000226565.1	Phf7	ENSMUSG00000021902	PHD finger protein 7 Source MGI Symbol Acc MGI 1919088
G03	SBM0931079	ENSMUST00000174054.1	Ring1	ENSMUSG00000024325	ring finger protein 1 Source MGI Symbol Acc MGI 1101770
G04	SBM1093150	ENSMUST00000076110.10	Rnf2	ENSMUSG00000026484	ring finger protein 2 Source MGI Symbol Acc MGI 1101759
G05	SBM0913920	ENSMUST00000099537.8	Smarca2	ENSMUSG00000024921	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 Source MGI Symbol Acc MGI 99603
G06	SBM0940307	ENSMUST00000174008.7	Smarca4	ENSMUSG00000032187	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 Source MGI Symbol Acc MGI 88192
G07	SBM0943295	ENSMUST00000142470.1	Smarca5	ENSMUSG00000031715	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 Source MGI Symbol Acc MGI 1935129
G08	SBM0818897	ENSMUST00000152081.1	Spen	ENSMUSG00000040761	spen family transcription repressor Source MGI Symbol Acc MGI 1891706
G09	SBM1001688	ENSMUST00000163272.1	Suz12	ENSMUSG00000017548	SUZ12 polycomb repressive complex 2 subunit Source MGI Symbol Acc MGI 1261758
G10	SBM0781762	ENSMUST00000139287.3	Trim27	ENSMUSG00000021326	tripartite motif-containing 27 Source MGI Symbol Acc MGI 97904
G11	SBM0762375	ENSMUST00000148752.7	Wdr11	ENSMUSG00000042055	WD repeat domain 11 Source MGI Symbol Acc MGI 1920230
G12	SBM0831409	ENSMUST00000099084.8	Zmynd8	ENSMUSG00000039671	zinc finger, MYND-type containing 8 Source MGI Symbol Acc MGI 1918025
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse 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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