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

Mouse Epigenetic Chromatin Modification Enzymes

Cat. no. 249950 SBMM-085ZR

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	Ash1l	Atf2	Aurka	Aurkb	Aurkc	Carm1	Cdyl	Ciita	Kat14	Dnmt1	Dnmt3a	Dnmt3b
B	Dot1l	Dzip3	Ehmt1	Ehmt2	Esco1	Esco2	Hat1	Hdac1	Hdac10	Hdac11	Hdac2	Hdac3
C	Hdac4	Hdac5	Hdac6	Hdac7	Hdac8	Hdac9	Kat2a	Kat2b	Kat5	Kdm1a	Kdm4a	Kdm4c
D	Kdm5b	Kdm5c	Kdm6b	Kmt2c	Kmt2e	Mysm1	Kat8	Kat7	Kat6a	Kat6b	Ncoa1	Ncoa3
E	Ncoa6	Nek6	Nsd1	Pak1	Prmt1	Prmt2	Prmt3	Prmt5	Prmt6	Prmt7	Prmt8	Rnf2
F	Rnf20	Rps6ka3	Rps6ka5	Setd1a	Setd1b	Setd2	Setd3	Setd4	Setd5	Setd6	Setd7	Kmt5a
G	Setdb1	Setdb2	Smyd1	Smyd3	Suv39h1	Kmt5b	Ube2a	Ube2b	Usp16	Usp21	Usp22	Nsd2
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	SBM0746685	ENSMUST00000189824.1	Ash1l	ENSMUSG00000028053	ASH1 like histone lysine methyltransferase Source MGI Symbol Acc MGI 2183158
A02	SBM1035001	ENSMUST00000112007.7	Atf2	ENSMUSG00000027104	activating transcription factor 2 Source MGI Symbol Acc MGI 109349
A03	SBM0964097	ENSMUST00000028997.7	Aurka	ENSMUSG00000027496	aurora kinase A Source MGI Symbol Acc MGI 894678
A04	SBM0735299	ENSMUST00000126576.1	Aurkb	ENSMUSG00000020897	aurora kinase B Source MGI Symbol Acc MGI 107168
A05	SBM0824224	ENSMUST00000208518.1	Aurkc	ENSMUSG00000070837	aurora kinase C Source MGI Symbol Acc MGI 1321119
A06	SBM0814662	ENSMUST00000130032.7	Carm1	ENSMUSG00000032185	coactivator-associated arginine methyltransferase 1 Source MGI Symbol Acc MGI 1913208
A07	SBM0843424	ENSMUST00000163595.2	Cdyl	ENSMUSG00000059288	chromodomain protein, Y chromosome-like Source MGI Symbol Acc MGI 1339956
A08	SBM1059521	ENSMUST00000230395.1	Ciita	ENSMUSG00000022504	class II transactivator Source MGI Symbol Acc MGI 108445
A09	SBM0970942	ENSMUST00000028911.14	Kat14	ENSMUSG00000027425	lysine acetyltransferase 14 Source MGI Symbol Acc MGI 1917264
A10	SBM0945860	ENSMUST00000177754.8	Dnmt1	ENSMUSG00000004099	DNA methyltransferase (cytosine-5) 1 Source MGI Symbol Acc MGI 94912
A11	SBM0788143	ENSMUST00000020991.14	Dnmt3a	ENSMUSG00000020661	DNA methyltransferase 3A Source MGI Symbol Acc MGI 1261827
A12	SBM0792760	ENSMUST00000103151.7	Dnmt3b	ENSMUSG00000027478	DNA methyltransferase 3B Source MGI Symbol Acc MGI 1261819
B01	SBM0812373	ENSMUST00000105336.8	Dot1l	ENSMUSG00000061589	DOT1-like, histone H3 methyltransferase (S. cerevisiae) Source MGI Symbol Acc MGI 2143886
B02	SBM1050417	ENSMUST00000114516.7	Dzip3	ENSMUSG00000064061	DAZ interacting protein 3, zinc finger Source MGI Symbol Acc MGI 1917433
B03	SBM1218444	ENSMUST00000091348.10	Ehmt1	ENSMUSG00000036893	euchromatic histone methyltransferase 1 Source MGI Symbol Acc MGI 1924933
B04	SBM1033495	ENSMUST00000097342.9	Ehmt2	ENSMUSG00000013787	euchromatic histone lysine N-methyltransferase 2 Source MGI Symbol Acc MGI 2148922
B05	SBM0792255	ENSMUST00000234347.1	Esco1	ENSMUSG00000024293	establishment of sister chromatid cohesion N-acetyltransferase 1 Source MGI Symbol Acc MGI 1925055
B06	SBM0935376	ENSMUST00000022613.9	Esco2	ENSMUSG00000022034	establishment of sister chromatid cohesion N-acetyltransferase 2 Source MGI Symbol Acc MGI 1919238
B07	SBM1043743	ENSMUST00000112122.8	Hat1	ENSMUSG00000027018	histone aminotransferase 1 Source MGI Symbol Acc MGI 96013
B08	SBM0727728	ENSMUST00000132909.1	Hdac1	ENSMUSG00000028800	histone deacetylase 1 Source MGI Symbol Acc MGI 108086
B09	SBM1004034	ENSMUST00000129398.7	Hdac10	ENSMUSG00000062906	histone deacetylase 10 Source MGI Symbol Acc MGI 2158340
B10	SBM0808971	ENSMUST00000041736.10	Hdac11	ENSMUSG00000034245	histone deacetylase 11 Source MGI Symbol Acc MGI 2385252
B11	SBM0725412	ENSMUST00000019911.13	Hdac2	ENSMUSG00000019777	histone deacetylase 2 Source MGI Symbol Acc MGI 1097691
B12	SBM0906064	ENSMUST00000143660.7	Hdac3	ENSMUSG00000024454	histone deacetylase 3 Source MGI Symbol Acc MGI 1343091
C01	SBM0836538	ENSMUST00000097644.8	Hdac4	ENSMUSG00000026313	histone deacetylase 4 Source MGI Symbol Acc MGI 3036234
C02	SBM0874640	ENSMUST00000124077.7	Hdac5	ENSMUSG00000008855	histone deacetylase 5 Source MGI Symbol Acc MGI 1333784
C03	SBM1010578	ENSMUST00000033501.14	Hdac6	ENSMUSG00000031161	histone deacetylase 6 Source MGI Symbol Acc MGI 1333752
C04	SBM1026271	ENSMUST00000134258.1	Hdac7	ENSMUSG00000022475	histone deacetylase 7 Source MGI Symbol Acc MGI 1891835
C05	SBM0983516	ENSMUST00000137785.7	Hdac8	ENSMUSG00000067567	histone deacetylase 8 Source MGI Symbol Acc MGI 1917565
C06	SBM0813970	ENSMUST00000209902.1	Hdac9	ENSMUSG00000004698	histone deacetylase 9 Source MGI Symbol Acc MGI 1931221
C07	SBM1007263	ENSMUST00000006973.11	Kat2a	ENSMUSG00000020918	K(lysine) acetyltransferase 2A Source MGI Symbol Acc MGI 1343101
C08	SBM0894234	ENSMUST00000171072.1	Kat2b	ENSMUSG00000000708	K(lysine) acetyltransferase 2B Source MGI Symbol Acc MGI 1343094
C09	SBM0742354	ENSMUST00000235788.1	Kat5	ENSMUSG00000024926	K(lysine) acetyltransferase 5 Source MGI Symbol Acc MGI 1932051
C10	SBM0712676	ENSMUST00000105847.7	Kdm1a	ENSMUSG00000036940	lysine (K)-specific demethylase 1A Source MGI Symbol Acc MGI 1196256
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0766478	097911.8	Kdm4a	000033326	lysine (K)-specific demethylase 4A Source MGI Symbol Acc MGI 2446210
C12	SBM0690587	ENSMUST00000 156065.7	Kdm4c	ENSMUSG00 000028397	lysine (K)-specific demethylase 4C Source MGI Symbol Acc MGI 1924054
D01	SBM0971256	ENSMUST00000 133725.1	Kdm5b	ENSMUSG00 000042207	lysine (K)-specific demethylase 5B Source MGI Symbol Acc MGI 1922855
D02	SBM0776182	ENSMUST00000 082177.12	Kdm5c	ENSMUSG00 000025332	lysine (K)-specific demethylase 5C Source MGI Symbol Acc MGI 99781
D03	SBM1011761	ENSMUST00000 094077.4	Kdm6b	ENSMUSG00 000018476	KDM1 lysine (K)-specific demethylase 6B Source MGI Symbol Acc MGI 2448492
D04	SBM0987336	ENSMUST00000 172556.7	Kmt2c	ENSMUSG00 000038056	lysine (K)-specific methyltransferase 2C Source MGI Symbol Acc MGI 2444959
D05	SBM0947327	ENSMUST00000 196260.1	Kmt2e	ENSMUSG00 000029004	lysine (K)-specific methyltransferase 2E Source MGI Symbol Acc MGI 1924825
D06	SBM0868576	ENSMUST00000 136130.1	Mysm1	ENSMUSG00 000062627	myb-like, SWIRM and MPN domains 1 Source MGI Symbol Acc MGI 2444584
D07	SBM0794895	ENSMUST00000 033070.8	Kat8	ENSMUSG00 000030801	K(lysine) acetyltransferase 8 Source MGI Symbol Acc MGI 1915023
D08	SBM0674945	ENSMUST00000 144456.7	Kat7	ENSMUSG00 000038909	K(lysine) acetyltransferase 7 Source MGI Symbol Acc MGI 2182799
D09	SBM1004540	ENSMUST00000 110696.7	Kat6a	ENSMUSG00 000031540	K(lysine) acetyltransferase 6A Source MGI Symbol Acc MGI 2442415
D10	SBM0745780	ENSMUST00000 183201.7	Kat6b	ENSMUSG00 000021767	K(lysine) acetyltransferase 6B Source MGI Symbol Acc MGI 1858746
D11	SBM1041717	ENSMUST00000 219373.1	Ncoa1	ENSMUSG00 000020647	nuclear receptor coactivator 1 Source MGI Symbol Acc MGI 1276523
D12	SBM0723993	ENSMUST00000 153507.1	Ncoa3	ENSMUSG00 000027678	nuclear receptor coactivator 3 Source MGI Symbol Acc MGI 1276535
E01	SBM0915877	ENSMUST00000 043126.11	Ncoa6	ENSMUSG00 000038369	nuclear receptor coactivator 6 Source MGI Symbol Acc MGI 1929915
E02	SBM0982342	ENSMUST00000 156726.1	Nek6	ENSMUSG00 000026749	NIMA (never in mitosis gene a)-related expressed kinase 6 Source MGI Symbol Acc MGI 1891638
E03	SBM0672810	ENSMUST00000 224156.1	Nsd1	ENSMUSG00 000021488	nuclear receptor-binding SET-domain protein 1 Source MGI Symbol Acc MGI 1276545
E04	SBM0746109	ENSMUST00000 033040.11	Pak1	ENSMUSG00 000030774	p21 (RAC1) activated kinase 1 Source MGI Symbol Acc MGI 1339975
E05	SBM0844800	ENSMUST00000 207370.1	Prmt1	ENSMUSG00 000109324	protein arginine N-methyltransferase 1 Source MGI Symbol Acc MGI 107846
E06	SBM0824016	ENSMUST00000 099571.9	Prmt2	ENSMUSG00 000020230	protein arginine N-methyltransferase 2 Source MGI Symbol Acc MGI 1316652
E07	SBM0679491	ENSMUST00000 032715.12	Prmt3	ENSMUSG00 000030505	protein arginine N-methyltransferase 3 Source MGI Symbol Acc MGI 1919224
E08	SBM0757244	ENSMUST00000 132227.8	Prmt5	ENSMUSG00 000023110	protein arginine N-methyltransferase 5 Source MGI Symbol Acc MGI 1351645
E09	SBM0867892	ENSMUST00000 168412.2	Prmt6	ENSMUSG00 000049300	protein arginine N-methyltransferase 6 Source MGI Symbol Acc MGI 2139971
E10	SBM0880339	ENSMUST00000 128201.1	Prmt7	ENSMUSG00 000060098	protein arginine N-methyltransferase 7 Source MGI Symbol Acc MGI 2384879
E11	SBM1065180	ENSMUST00000 032500.8	Prmt8	ENSMUSG00 000030350	protein arginine N-methyltransferase 8 Source MGI Symbol Acc MGI 3043083
E12	SBM1093150	ENSMUST00000 076110.10	Rnf2	ENSMUSG00 000026484	ring finger protein 2 Source MGI Symbol Acc MGI 1101759
F01	SBM0973222	ENSMUST00000 132782.7	Rnf20	ENSMUSG00 000028309	ring finger protein 20 Source MGI Symbol Acc MGI 1925927
F02	SBM0912273	ENSMUST00000 112493.7	Rps6ka3	ENSMUSG00 000031309	ribosomal protein S6 kinase polypeptide 3 Source MGI Symbol Acc MGI 104557
F03	SBM0843054	ENSMUST00000 221246.1	Rps6ka5	ENSMUSG00 000021180	ribosomal protein S6 kinase, polypeptide 5 Source MGI Symbol Acc MGI 1920336
F04	SBM0942782	ENSMUST00000 144406.7	Setd1a	ENSMUSG00 000042308	SET domain containing 1A Source MGI Symbol Acc MGI 2446244
F05	SBM0749263	ENSMUST00000 163030.8	Setd1b	ENSMUSG00 000038384	SET domain containing 1B Source MGI Symbol Acc MGI 2652820
F06	SBM0791228	ENSMUST00000 153838.7	Setd2	ENSMUSG00 000044791	SET domain containing 2 Source MGI Symbol Acc MGI 1918177
F07	SBM0835456	ENSMUST00000 132682.7	Setd3	ENSMUSG00 000056770	SET domain containing 3 Source MGI Symbol Acc MGI 1289184
F08	SBM0828637	ENSMUST00000 233931.1	Setd4	ENSMUSG00 000022948	SET domain containing 4 Source MGI Symbol Acc MGI 2136890
F09	SBM0730352	ENSMUST00000 042889.11	Setd5	ENSMUSG00 000034269	SET domain containing 5 Source MGI Symbol Acc MGI 1920145
F10	SBM0771343	ENSMUST00000 126888.1	Setd6	ENSMUSG00 000031671	SET domain containing 6 Source MGI Symbol Acc MGI 1913333

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0908733	ENSMUST00000195080.1	Setd7	ENSMUSG00000037111	SET domain containing (lysine methyltransferase) 7 Source MGI Symbol Acc MGI 1920501
F12	SBM1048679	ENSMUST00000147692.1	Kmt5a	ENSMUSG00000049327	lysine methyltransferase 5A Source MGI Symbol Acc MGI 1915206
G01	SBM0961939	ENSMUST00000132468.1	Setdb1	ENSMUSG00000015697	SET domain, bifurcated 1 Source MGI Symbol Acc MGI 1934229
G02	SBM0914686	ENSMUST00000161459.7	Setdb2	ENSMUSG00000071350	SET domain, bifurcated 2 Source MGI Symbol Acc MGI 2685139
G03	SBM1093392	ENSMUST00000074301.9	Smyd1	ENSMUSG00000055027	SET and MYND domain containing 1 Source MGI Symbol Acc MGI 104790
G04	SBM0734229	ENSMUST00000068437.12	Smyd3	ENSMUSG00000055067	SET and MYND domain containing 3 Source MGI Symbol Acc MGI 1916976
G05	SBM0678863	ENSMUST00000115637.7	Suv39h1	ENSMUSG00000039231	suppressor of variegation 3-9 1 Source MGI Symbol Acc MGI 1099440
G06	SBM0928514	ENSMUST00000113970.7	Kmt5b	ENSMUSG00000045098	lysine methyltransferase 5B Source MGI Symbol Acc MGI 2444557
G07	SBM1218810	ENSMUST00000200835.3	Ube2a	ENSMUSG00000016308	ubiquitin-conjugating enzyme E2A Source MGI Symbol Acc MGI 102959
G08	SBM0719879	ENSMUST00000124699.1	Ube2b	ENSMUSG00000020390	ubiquitin-conjugating enzyme E2B Source MGI Symbol Acc MGI 102944
G09	SBM1065893	ENSMUST00000026710.11	Usp16	ENSMUSG00000025616	ubiquitin specific peptidase 16 Source MGI Symbol Acc MGI 1921362
G10	SBM0940852	ENSMUST00000111305.7	Usp21	ENSMUSG00000053483	ubiquitin specific peptidase 21 Source MGI Symbol Acc MGI 1353665
G11	SBM0867460	ENSMUST00000041683.8	Usp22	ENSMUSG00000042506	ubiquitin specific peptidase 22 Source MGI Symbol Acc MGI 2144157
G12	SBM0708342	ENSMUST00000114399.7	Nsd2	ENSMUSG00000057406	nuclear receptor binding SET domain protein 2 Source MGI Symbol Acc MGI 1276574
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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