QuantiNova® LNA® Probe PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Mouse Epigenetic Chromatin Remodeling Factors

Cat. no. 249955 UPMM-086ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light 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 Probe PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA Probe PCR 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 Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM0783459	ENSMUST00000139709.2	Arid1a	ENSMUSG00000007880	AT rich interactive domain 1A (SWI-like) Source MGI Symbol Acc MGI 1935147
A02	UPFM0871802	ENSMUST00000096250.4	Arid2	ENSMUSG00000033237	AT rich interactive domain 2 (ARID, RFX-like) Source MGI Symbol Acc MGI 1924294
A03	UPFM0753000	ENSMUST00000144722.1	Asxl1	ENSMUSG00000042548	additional sex combs like 1 Source MGI Symbol Acc MGI 2684063
A04	UPFM0785034	ENSMUST00000172875.7	Baz1a	ENSMUSG00000035021	bromodomain adjacent to zinc finger domain 1A Source MGI Symbol Acc MGI 1309478
A05	UPFM0704435	ENSMUST00000176793.1	Baz1b	ENSMUSG00000002748	bromodomain adjacent to zinc finger domain, 1B Source MGI Symbol Acc MGI 1353499
A06	UPFM0974539	ENSMUST00000170054.8	Baz2a	ENSMUSG00000040054	bromodomain adjacent to zinc finger domain, 2A Source MGI Symbol Acc MGI 2151152
A07	UPFM0686478	ENSMUST00000112550.7	Baz2b	ENSMUSG00000026987	bromodomain adjacent to zinc finger domain, 2B Source MGI Symbol Acc MGI 2442782
A08	UPFM0793856	ENSMUST00000051929.12	Bmi1	ENSMUSG00000026739	Bmi1 polycomb ring finger oncogene Source MGI Symbol Acc MGI 88174
A09	UPFM0709550	ENSMUST00000138443.1	Bptf	ENSMUSG00000040481	bromodomain PHD finger transcription factor Source MGI Symbol Acc MGI 2444008
A10	UPFM0808814	ENSMUST00000139515.1	Brd1	ENSMUSG00000022387	bromodomain containing 1 Source MGI Symbol Acc MGI 1924161
A11	UPFM0722609	ENSMUST00000142570.1	Brd2	ENSMUSG00000024335	bromodomain containing 2 Source MGI Symbol Acc MGI 99495
A12	UPFM0697270	ENSMUST00000164296.7	Brd3	ENSMUSG00000026918	bromodomain containing 3 Source MGI Symbol Acc MGI 1914632
B01	UPFM1126241	ENSMUST00000237692.1	Brd4	ENSMUSG00000024002	bromodomain containing 4 Source MGI Symbol Acc MGI 1888520
B02	UPFM0672076	ENSMUST00000139675.7	Brd7	ENSMUSG00000031660	bromodomain containing 7 Source MGI Symbol Acc MGI 1349766
B03	UPFM0776738	ENSMUST00000152612.7	Brd8	ENSMUSG00000003778	bromodomain containing 8 Source MGI Symbol Acc MGI 1925906
B04	UPFM0734608	ENSMUST00000112677.9	Brdt	ENSMUSG00000029279	bromodomain, testis-specific Source MGI Symbol Acc MGI 1891374
B05	UPFM0989381	ENSMUST00000113117.3	Brpf1	ENSMUSG00000001632	bromodomain and PHD finger containing, 1 Source MGI Symbol Acc MGI 1926033
B06	UPFM0980794	ENSMUST00000140587.8	Brpf3	ENSMUSG00000063952	bromodomain and PHD finger containing, 3 Source MGI Symbol Acc MGI 2146836
B07	UPFM0758637	ENSMUST00000099502.8	Brwd1	ENSMUSG00000022914	bromodomain and WD repeat domain containing 1 Source MGI Symbol Acc MGI 1890651
B08	UPFM0864101	ENSMUST00000144521.7	Brwd3	ENSMUSG00000063663	bromodomain and WD repeat domain containing 3 Source MGI Symbol Acc MGI 3029414
B09	UPFM0858820	ENSMUST00000093943.9	Cbx1	ENSMUSG00000018666	chromobox 1 Source MGI Symbol Acc MGI 105369
B10	UPFM0746316	ENSMUST00000139746.1	Cbx2	ENSMUSG00000025577	chromobox 2 Source MGI Symbol Acc MGI 88289
B11	UPFM0875390	ENSMUST00000141711.2	Cbx3	ENSMUSG00000029836	chromobox 3 Source MGI Symbol Acc MGI 108515
B12	UPFM0674298	ENSMUST00000145058.1	Cbx4	ENSMUSG00000039989	chromobox 4 Source MGI Symbol Acc MGI 1195985
C01	UPFM0858719	ENSMUST00000122182.1	Cbx5	ENSMUSG00000009575	chromobox 5 Source MGI Symbol Acc MGI 109372
C02	UPFM0972230	ENSMUST00000127721.7	Cbx6	ENSMUSG00000089715	chromobox 6 Source MGI Symbol Acc MGI 3512628
C03	UPFM0931416	ENSMUST00000177044.1	Cbx7	ENSMUSG00000053411	chromobox 7 Source MGI Symbol Acc MGI 1196439
C04	UPFM0941497	ENSMUST00000143831.1	Cbx8	ENSMUSG00000025578	chromobox 8 Source MGI Symbol Acc MGI 1353589
C05	UPFM0810824	ENSMUST00000075220.13	Cdyl	ENSMUSG00000059288	chromodomain protein, Y chromosome-like Source MGI Symbol Acc MGI 1339956
C06	UPFM0683534	ENSMUST00000109102.3	Cdyl2	ENSMUSG00000031758	chromodomain protein, Y chromosome-like 2 Source MGI Symbol Acc MGI 1923046
C07	UPFM0918703	ENSMUST00000173311.7	Chd1	ENSMUSG00000023852	chromodomain helicase DNA binding protein 1 Source MGI Symbol Acc MGI 88393
C08	UPFM0901296	ENSMUST00000026895.13	Chd2	ENSMUSG00000078671	chromodomain helicase DNA binding protein 2 Source MGI Symbol Acc MGI 2448567
C09	UPFM0849378	ENSMUST00000108661.7	Chd3	ENSMUSG00000018474	chromodomain helicase DNA binding protein 3 Source MGI Symbol Acc MGI 1344395
C10	UPFM0701813	ENSMUST00000112392.7	Chd4	ENSMUSG00000063870	chromodomain helicase DNA binding protein 4 Source MGI Symbol Acc MGI 1344380
	UPFM091939	ENSMUST00000		ENSMUSG00	chromodomain helicase DNA binding protein 5 Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	8	124423.1	Chd5	000005045	3036258
C12	UPFM0827799	ENSMUST00000149866.1	Chd6	ENSMUSG00000057133	chromodomain helicase DNA binding protein 6 Source MGI Symbol Acc MGI 1918639
D01	UPFM0837141	ENSMUST00000039267.9	Chd7	ENSMUSG00000041235	chromodomain helicase DNA binding protein 7 Source MGI Symbol Acc MGI 2444748
D02	UPFM0944709	ENSMUST00000149694.1	Chd8	ENSMUSG00000053754	chromodomain helicase DNA binding protein 8 Source MGI Symbol Acc MGI 1915022
D03	UPFM0893350	ENSMUST00000210947.1	Chd9	ENSMUSG00000056608	chromodomain helicase DNA binding protein 9 Source MGI Symbol Acc MGI 1924001
D04	UPFM0618747	ENSMUST00000201372.2	Ctbp1	ENSMUSG00000037373	C-terminal binding protein 1 Source MGI Symbol Acc MGI 1201685
D05	UPFM0631721	ENSMUST00000172341.7	Ctbp2	ENSMUSG00000030970	C-terminal binding protein 2 Source MGI Symbol Acc MGI 1201686
D06	UPFM0642016	ENSMUST00000129388.1	Ctcf	ENSMUSG00000005698	CCCTC-binding factor Source MGI Symbol Acc MGI 109447
D07	UPFM0836567	ENSMUST00000107234.2	Eed	ENSMUSG00000030619	embryonic ectoderm development Source MGI Symbol Acc MGI 95286
D08	UPFM0625647	ENSMUST00000114618.7	Ezh2	ENSMUSG00000029687	enhancer of zeste 2 polycomb repressive complex 2 subunit Source MGI Symbol Acc MGI 107940
D09	UPFM0703321	ENSMUST00000034629.5	Hinfp	ENSMUSG00000032119	histone H4 transcription factor Source MGI Symbol Acc MGI 2429620
D10	UPFM0764813	ENSMUST00000209646.1	Ing1	ENSMUSG00000045969	inhibitor of growth family, member 1 Source MGI Symbol Acc MGI 1349481
D11	UPFM0750305	ENSMUST00000125536.1	Ing2	ENSMUSG00000063049	inhibitor of growth family, member 2 Source MGI Symbol Acc MGI 1916510
D12	UPFM0846786	ENSMUST00000151473.7	Ing3	ENSMUSG00000029670	inhibitor of growth family, member 3 Source MGI Symbol Acc MGI 1919027
E01	UPFM0759019	ENSMUST00000152574.7	Ing4	ENSMUSG00000030330	inhibitor of growth family, member 4 Source MGI Symbol Acc MGI 107307
E02	UPFM0900566	ENSMUST00000027505.12	Ing5	ENSMUSG00000026283	inhibitor of growth family, member 5 Source MGI Symbol Acc MGI 1922816
E03	UPFM0958544	ENSMUST00000138707.1	Ino80	ENSMUSG00000034154	INO80 complex subunit Source MGI Symbol Acc MGI 1915392
E04	UPFM0837114	ENSMUST00000224047.1	Mbd1	ENSMUSG00000024561	methyl-CpG binding domain protein 1 Source MGI Symbol Acc MGI 1333811
E05	UPFM0656333	ENSMUST00000105349.7	Mbd3	ENSMUSG00000035478	methyl-CpG binding domain protein 3 Source MGI Symbol Acc MGI 1333812
E06	UPFM0635008	ENSMUST00000203643.1	Mbd4	ENSMUSG00000030322	methyl-CpG binding domain protein 4 Source MGI Symbol Acc MGI 1333850
E07	UPFM0618844	ENSMUST00000123362.7	Mecp2	ENSMUSG00000031393	methyl CpG binding protein 2 Source MGI Symbol Acc MGI 99918
E08	UPFM0822456	ENSMUST00000109726.7	Mta1	ENSMUSG00000021144	metastasis associated 1 Source MGI Symbol Acc MGI 2150037
E09	UPFM0774797	ENSMUST00000132463.7	Mta2	ENSMUSG00000071646	metastasis-associated gene family, member 2 Source MGI Symbol Acc MGI 1346340
E10	UPFM0970567	ENSMUST00000129252.1	Nab2	ENSMUSG00000025402	Ngfi-A binding protein 2 Source MGI Symbol Acc MGI 107563
E11	UPFM0740071	ENSMUST00000224156.1	Nsd1	ENSMUSG00000021488	nuclear receptor-binding SET-domain protein 1 Source MGI Symbol Acc MGI 1276545
E12	UPFM0767017	ENSMUST00000177177.7	Pcgf1	ENSMUSG00000069678	polycomb group ring finger 1 Source MGI Symbol Acc MGI 1917087
F01	UPFM0801782	ENSMUST00000179765.7	Pcgf2	ENSMUSG00000018537	polycomb group ring finger 2 Source MGI Symbol Acc MGI 99161
F02	UPFM0956848	ENSMUST00000112597.7	Pcgf3	ENSMUSG00000033623	polycomb group ring finger 3 Source MGI Symbol Acc MGI 1916837
F03	UPFM0665349	ENSMUST00000225920.1	Pcgf5	ENSMUSG00000024805	polycomb group ring finger 5 Source MGI Symbol Acc MGI 1923505
F04	UPFM0820741	ENSMUST00000026032.6	Pcgf6	ENSMUSG00000025050	polycomb group ring finger 6 Source MGI Symbol Acc MGI 1918291
F05	UPFM0665089	ENSMUST00000159384.7	Phc1	ENSMUSG00000040669	polyhomeotic 1 Source MGI Symbol Acc MGI 103248
F06	UPFM0854470	ENSMUST00000138445.1	Phc2	ENSMUSG00000028796	polyhomeotic 2 Source MGI Symbol Acc MGI 1860454
F07	UPFM0737758	ENSMUST00000237412.1	Phf1	ENSMUSG00000024193	PHD finger protein 1 Source MGI Symbol Acc MGI 98647
F08	UPFM0988007	ENSMUST00000055688.9	Phf13	ENSMUSG00000047777	PHD finger protein 13 Source MGI Symbol Acc MGI 2446217
F09	UPFM0791581	ENSMUST00000035540.8	Phf2	ENSMUSG00000038025	PHD finger protein 2 Source MGI Symbol Acc MGI 1338034
F10	UPFM0916784	ENSMUST00000016768.11	Phf21b	ENSMUSG00000016624	PHD finger protein 21B Source MGI Symbol Acc MGI 2443812

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM1012730	ENSMUST00000186105.6	Phf3	ENSMUSG00000048874	PHD finger protein 3 Source MGI Symbol Acc MGI 2446126
F12	UPFM0781018	ENSMUST00000160415.1	Phf5a	ENSMUSG00000061360	PHD finger protein 5A Source MGI Symbol Acc MGI 2156864
G01	UPFM0962216	ENSMUST00000154864.3	Phf6	ENSMUSG00000025626	PHD finger protein 6 Source MGI Symbol Acc MGI 1918248
G02	UPFM0683890	ENSMUST00000022459.4	Phf7	ENSMUSG00000021902	PHD finger protein 7 Source MGI Symbol Acc MGI 1919088
G03	UPFM0836116	ENSMUST00000025183.8	Ring1	ENSMUSG00000024325	ring finger protein 1 Source MGI Symbol Acc MGI 1101770
G04	UPFM0933183	ENSMUST00000186415.6	Rnf2	ENSMUSG00000026484	ring finger protein 2 Source MGI Symbol Acc MGI 1101759
G05	UPFM0814431	ENSMUST00000177252.8	Smarca2	ENSMUSG00000024921	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 Source MGI Symbol Acc MGI 99603
G06	UPFM0784868	ENSMUST00000172996.1	Smarca4	ENSMUSG00000032187	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 Source MGI Symbol Acc MGI 88192
G07	UPFM0984474	ENSMUST00000140110.1	Smarca5	ENSMUSG00000031715	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 Source MGI Symbol Acc MGI 1935129
G08	UPFM0816464	ENSMUST00000078886.9	Spen	ENSMUSG00000040761	spen family transcription repressor Source MGI Symbol Acc MGI 1891706
G09	UPFM0744096	ENSMUST00000126091.1	Suz12	ENSMUSG00000017548	SUZ12 polycomb repressive complex 2 subunit Source MGI Symbol Acc MGI 1261758
G10	UPFM0924987	ENSMUST00000021761.12	Trim27	ENSMUSG00000021326	tripartite motif-containing 27 Source MGI Symbol Acc MGI 97904
G11	UPFM0946199	ENSMUST00000143422.7	Wdr11	ENSMUSG00000042055	WD repeat domain 11 Source MGI Symbol Acc MGI 1920230
G12	UPFM0769933	ENSMUST00000136842.1	Zmynd8	ENSMUSG00000039671	zinc finger, MYND-type containing 8 Source MGI Symbol Acc MGI 1918025
H01	UPFM1132946	ENSMUST00000163829.1	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM1126609	UPL_MGDC	MGDC	UPL_MGDC	Mouse Genomic DNA Contamination
H07	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H08	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H09	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H10	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H11	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H12	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA Probe PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249945
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 Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl QN ROX Reference Dye, 1.9 ml Water	208252

*Larger kit sizes available.

The QuantiNova LNA Probe 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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